

RYCO



RYCO. THE COMPANY

RYCO Hydraulics started manufacturing hoses, fittings and filters in 1946. As the hydraulics industry evolved, the Company expanded its range and the main product line soon became high-pressure hydraulic hose and fittings.

RYCO Hydraulics' simple belief of "Higher Technology Equals Greater Performance" applies throughout the Company. The Company's research and development centres and testing facilities are dedicated to developing innovative products and pioneering new processes in fluid conveying systems technology. Our specialised equipment and technology enable us to manufacture our large range of products efficiently and cost effectively.

"HIGHER TECHNOLOGY EQUALS GREATER PERFORMANCE"

RYCO. MISSION STATEMENT

Our Mission is to listen to our customers and deliver the highest quality and technologically superior fluid conveying connection products and solutions.

RYCO. COMPANY VISION

Our vision is to be the premier supplier and service provider of choice in every market we participate in.

RYCO. THE QUALITY

RYCO Hydraulics is certified to the current version of ISO 9001 Quality Management System. Company Policy is to supply products and services that meet or exceed our industry standards. These standards include SAE, EN (DIN), AS, ISO, JIS, BS and BCS. The bottom line in Quality Control (QC) and Quality Assurance (QA) is Customer Confidence and Customer Satisfaction.

OUR AIM IS ZERO DEFECTS

RYCO. INDUSTRIAL RANGE

RYCO's introduction of a complete range of Industrial Hose and Fittings, including a specialist lubrication product range, enables us to offer these quality products and services to all our customers.

RYCO. WAREHOUSE AND DISTRIBUTION

At RYCO Hydraulics, we understand that when you need your product, you need it fast. Our network of warehouses and distributors gives the greatest product availability to our customers. Our comprehensive ordering and despatch system ensures that your orders are correct before leaving the warehouse.

WE PRIDE OURSELVES ON SHIPPING CORRECTLY

DISCLAIMER: We reserve the right to alter the design, or discontinue any of the company's products or services without notice. While every effort has been made to ensure the accuracy of the information contained in this publication, our Company Policy of continual research and product development necessitates changes and refinements which may not be reflected in the following pages. If in doubt, please contact your nearest sales office. Illustrations are not to scale, and are indicative only.

COPYRIGHT 2014. All rights reserved. This document may NOT be reproduced, in whole or parts, without the written permission of RYCO Hydraulics Pty. Ltd. Specifications may change without notice. E. and O.E.

INTRODUCTION

HOW TO USE THIS BOOK

HOW TO USE THE RYCO PRODUCT TECHNICAL MANUAL - INDUSTRIAL

This Product Technical Manual is divided into 7 colour coded sections; **Introduction, Hose, Couplings, Adaptors, Clamps, Accessories** and **Technical**.

A colour coded indicator tab on the edge of every right hand page aids finding and identifying each section.

On pages 6 to 7 is an **Alphanumeric Index** if you know the Part Number you're looking for, and pages 4 to 5 provide a Contents by Section that lists the product ranges each section contains.

In addition, each section contains a **Contents** and/or **Pictorial Index** as relevant to further aid you in finding the exact information you require.

IMPORTANT – DO NOT MIX AND MATCH PRODUCT

It is the responsibility of the hose assembly fabricator to consult the manufacturer's written assembly instructions or the manufacturers directly before intermixing hose and fittings from various manufacturers. It is the responsibility of the hose assembly fabricator to consult the manufacturer's written instructions or the manufacturers directly for the proper assembly equipment. Always follow the manufacturer's instructions for proper preparation and fabrication of hose assemblies.



SAFETY GUIDE

FOR THE SELECTION AND USE OF HOSE, FITTINGS AND RELATED ACCESSORIES

Failure or improper selection or improper use of hose, fittings, or related accessories can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of hose, fittings, or related accessories include, but are not limited to:

- Fittings blown off at high speed.
- High velocity medium discharge.
- Explosion, or burning, of the conveyed medium.
- Electrocution from high voltage electric power lines or other sources of electricity.
- Contact with suddenly moving, or falling, objects that are held in position, or moved, by conveyed medium.
- Injections by high-pressure fluid or air discharge.
- Dangerously whipping hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity build-up.
- Sparking, or explosion, while spraying paint or other flammable liquid.

THE COMPANY

An Australian-owned company, RYCO has built a strong reputation since it commenced manufacturing of hydraulic hose and fittings in Melbourne, Australia back in 1946.

RYCO has now incorporated a complete range of Industrial Hose and Fittings as well as a range of specialist product groups to support our existing markets.

Engineering excellence, customer-focus and highest quality products continue to attract new customers, from varied industries right across the world.

RYCO Research and Development Centres are dedicated to improving product and pioneering new technologies and processes in fluid conveying systems. RYCO quality range of hydraulic and industrial hose and fittings is supported by a network of loyal and committed distributors across the world.

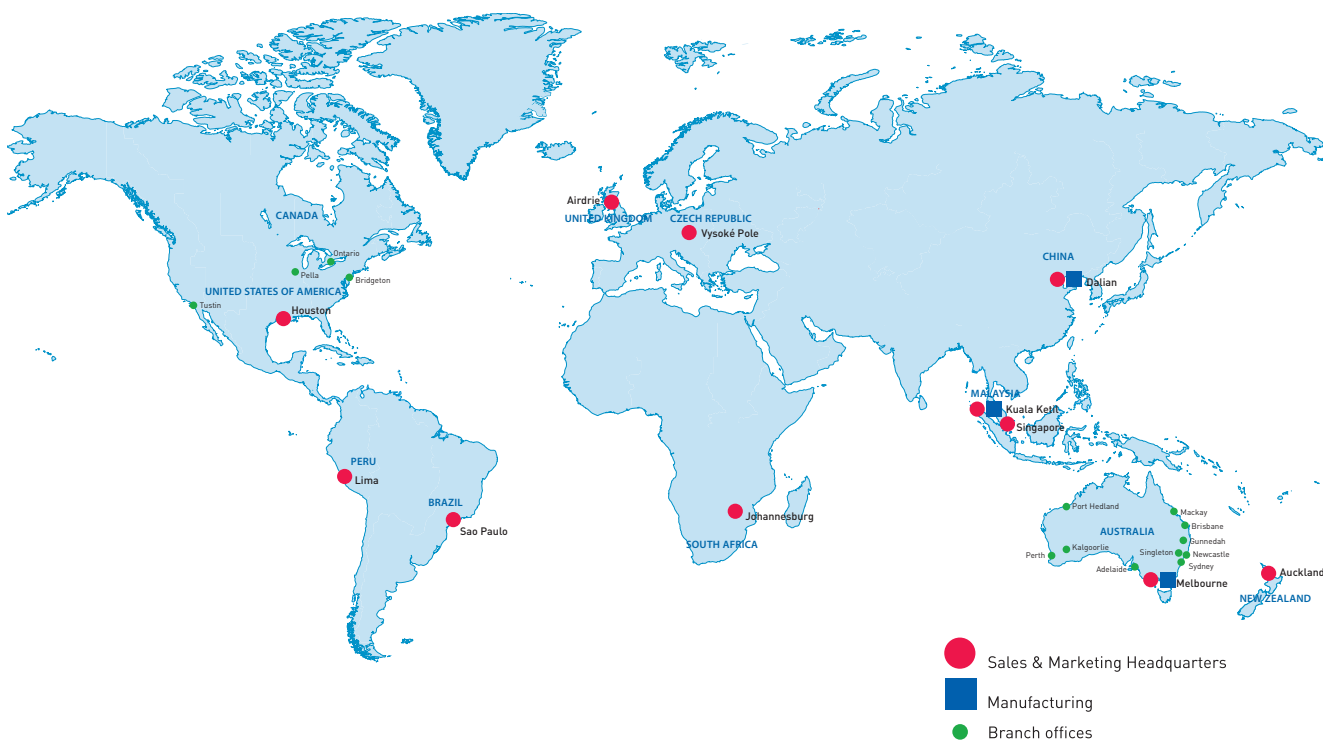
RYCO products are supplied to a wide range of industries including mining, construction, utilities, defence, marine, oil and gas, OEMs and more. RYCO continues to expand its product range to meet the growing needs of the worldwide hydraulic industry.

GLOBAL RESOURCES

In today's competitive international business environment, the requirements for suppliers and customers to work closely together are greater than ever before.

RYCO has expanded its horizons and developed its manufacturing and distribution business on a global scale, working with industries in diverse sectors. RYCO has offices and warehouses strategically placed in Europe, Brazil, Singapore, and South and North America, and fully Quality Accredited manufacturing centres in Australia, China and Malaysia.

With such an extensive global footprint, RYCO can ensure quality product is delivered to our customers; whenever and wherever required.



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

INTRODUCTION

CONTENTS BY SECTION

OVERVIEW OF CONTENTS BY SECTION	
INTRODUCTION	1-28
INDUSTRIAL HOSE	29-120
COUPLINGS	121-149
ADAPTORS	150-174
CLAMPS	175-191
ACCESSORIES & SPECIALITY PRODUCTS	192-224
TECHNICAL	225-272



INTRODUCTION

ABOUT RYCO. THE COMPANY	1
MISSION STATEMENT	1
COMPANY VISION	1
THE QUALITY	1
INDUSTRIAL RANGE	1
WAREHOUSE AND DISTRIBUTION	1
HOW TO USE THIS BOOK	2
THE COMPANY AND GLOBAL RESOURCES	3
CONTENTS BY SECTION	4-5
ALPHANUMERIC INDEX	6-7
HOSE COLOUR AND FITTING ICON INDEX	8
INNOVATION	9
POLICIES	10-11
QUALITY ACCREDITATION	12-13
OEM	14-15
INDUSTRIAL	16
MINING	17
MDG-41 AND MDG-15 SAFE	18-19
SERVICES AND SUPPORT - TRAINING	20
SERVICES AND SUPPORT - HAVE	21
SERVICES AND SUPPORT - RYCO 24•7	22-23
RYCO RAM	24-25
RYCO TIMELINE	26-27
DASH SIZE PART NUMBERING	28



INDUSTRIAL HOSE

PICTORIAL INDEX	30-37
RUBBER - AIR	38-41
RUBBER - AIR/WATER	42-49
RUBBER - CHEMICAL/ACID	50-51
RUBBER - FOOD/BEVERAGE	52-53
RUBBER - FUEL/OIL	54-59
RUBBER - MATERIAL HANDLING	60-62
RUBBER - MULTI-PURPOSE	63-66
RYCO SHOCKWAVE HIGH PRESSURE WATERBLAST	67-69
RYCO JETSTORM PRESSURE WASHER	70-72
RUBBER - SPECIALTY	73-81
PVC - AIR/WATER	82-83
PVC - AIR HOSE ASSEMBLY	84-85
PVC - AIR/WATER	86-92
PVC - CHEMICAL/ACID	93
PVC - FOOD/BEVERAGE	94-96
PVC - FUEL/OIL	97-99
PVC - MATERIAL HANDLING	100-103
PVC - MULTI-PURPOSE	104-105
PVC - SPECIALTY	106-114
TEFLON - SPECIALTY	115
FLEXIBLE DUCTING -SPECIALTY	116-118
HOSE PROTECTION	119



COUPLINGS

RYCO MATCHED COUPLINGS	122
PICTORIAL INDEX	123-128
CAMLOCKS	129-133
CLAW COUPLINGS & COMBINATION NIPPLES	134-138
STEAM FITTINGS	139
HYGIENIC FITTINGS	140-141
IRRIGATION AND FIRE FITTINGS	141
FIRE FITTINGS	142-143
PIPE GROOVED, SHOULDERED AND MUFF COUPLINGS	144
HOSE TAIL FITTINGS	145-149


ADAPTORS

PICTORIAL INDEX	151-153
BRASS ADAPTORS	154-158
STAINLESS STEEL ADAPTORS	159-161
GALVANISED ADAPTORS	162-166
QUICK FIT TUBE ADAPTORS	167-169
FLANGES	170-171
HAMMER UNIONS	172-174


CLAMPS

PICTORIAL INDEX	176-177
CRIMP FERRULES	178-180
HEAVY DUTY BOLT CLAMPS	181-183
STANDARD CLAMPS	184-186
PIPE REPAIR CLAMPS	187-188
MERCHANDISERS	189-190
KITS AND TOOLS	191


ACCESSORIES AND SPECIALITY PRODUCTS

PICTORIAL INDEX	193-196
HOSE GUNS AND NOZZLES	197
VALVES	198-200
VALVES AND SUCTION STRAINERS	201
HOSE REELS	202
DISPLAY AND MERCHANDISE STANDS	203-207
KITS, HOSE AND OPERATOR PROTECTION	208
SPILL CONTROL	209
FUEL MANAGEMENT	210-213
OILS, LUBRICANTS AND SPECIALITY PRODUCTS	214-224


TECHNICAL

CONTENTS	226
INSTALLATION AND MAINTENANCE OF HOSE ASSEMBLIES	227-231
HOSE SELECTION	232-233
GUIDES FOR ALL HOSE USERS	234
RYCO HOSE ASSEMBLY PRESSURE RECOMMENDATION CHART	235-237
HOSE ASSEMBLY SAFETY	238
WATER AND AIR FLOW RATES	239-240
HOSE SELECTION NOMOGRAPH	241
STEAM HOSE SAFETY	242-243
CAMLOCK SPECIFICATIONS	244
CLAW COUPLING SPECIFICATIONS	245
THREAD IDENTIFICATION	246-248
FLANGE MEASUREMENT GUIDE	249-250
GENERAL PROPERTIES OF RUBBER AND THERMOPLASTICS	251-253
CHEMICAL COMPATIBILITY CHART	254-264
GENERAL TEMPERATURE CONVERSION CHART	265
TEMPERATURE LIMITS FOR STEAM	266
CONVERSION TABLES	267
RYCO TERMS OF SALE	268-269
GLOSSARY	270-272

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

INTRODUCTION

ALPHANUMERIC INDEX

AJY.....	30, 38	CAMF.....	124, 134	CLSCU.....	124, 133	HSWG.....	194
AM220ACB.....	196, 220	CAMNF.....	124, 134	CLWC.....	124, 133	HSWWG-L.....	194
AM501A.....	196, 221	CASCU.....	124, 134	CLWN.....	124, 133	HSWWG-M.....	194
AM600A.....	196, 218	CASN.....	124, 134	CLWV.....	124, 133	HSWWG-S.....	194
AM660AN.....	196, 218	CB3WF.....	124, 135	CS3WF.....	125, 136	HTB.....	128
AM670AN3.....	196, 218	CBBF.....	124, 135	CS1000.....	30, 43	HTMB.....	128
AM5060AN.....	196, 221	CBFF.....	124, 135	CSBF.....	125, 136	JS4000.....	32, 70, 71
AM8080-G.....	196, 224	CBFNF.....	124, 135	CSD.....	32, 60	JS6000.....	32, 70, 72
AM8828N2.....	196, 222	CBHF.....	124, 135	CSFF.....	125, 136	M1.....	31, 58
AM10028.....	196, 222	CBMF.....	124, 135	CSFNF.....	125, 136	M2.....	31, 59, 122
AM51008.....	196, 222	CBMNF.....	124, 135	CSHF.....	125, 136	M2G.....	33, 74, 122
AM52000.....	196, 221	CBSN.....	125, 135	CSMF.....	125, 136	MDW.....	34, 87
AM60068PA.....	196, 221	CFACB.....	127, 142	CSMNF.....	125, 136	MDWH.....	34, 87
AM201220.....	196, 224	CFAFHB.....	127, 142	CSP056M-1.....	194, 204	MEH.....	30, 48
AM334900.....	196, 223	CFAMHB.....	127, 142	CSP056M-2.....	194, 205	MFBCB.....	127, 142
AM378100.....	196, 223	CFAPB.....	127, 142	CSSN.....	125, 136	MFBFHB.....	127
AM424170.....	196, 219	CFawe.....	127, 14	CSX.....	31, 50	MFBMHB.....	127, 142
AM454110N.....	196, 223	CFHS.....	180	CU3WF.....	125, 137	MFBPB.....	127
AMB1-120-1-24.....	196, 219	CFLU.....	178, 179	CUBF.....	125, 137	MFBWE.....	127, 142
AMBEKAEP-1.....	196, 220	CFU.....	178, 179	CUFF.....	125, 137	MHD.....	32, 61
AMBEKAMAX-20.....	196	CHC.....	194, 206, 207	CUFNF.....	125, 137	MP1.....	32, 63
AMBL-I.....	196, 220	CHC2.....	194, 207	CUHF.....	125, 137	MP2.....	32, 64
AMDW20500KS.....	196, 224	CK3WF.....	125, 138	CUMF.....	125, 137	MPX.....	32, 65
AMG10040N.....	196, 218	CKBF.....	125, 138	CUMNF.....	125, 137	MS1000.....	30, 42
AML4675.....	196, 219	CKFF.....	125, 137	CUSCU.....	125, 137	MUA15A.....	127, 144
AML40040PA.....	196, 222	CKFNF.....	125, 137	CUSN.....	125, 137	MUDA.....	127, 144
AMM SERIES.....	196	CKHF.....	125, 138	CVH1.....	194, 203	MUEA.....	127, 144
AMSA300N.....	196	CKMF.....	125, 137	DPUA.....	37, 118	NHC100W1.....	191
AMSA400N.....	196	CKMNF.....	125, 137	DPV.....	37, 116	NHC100W4.....	191
ANFF.....	36, 110	CKSCU.....	126, 138	DTP.....	37, 117	NHC135W1.....	189
ANFR.....	36, 110	CKSN.....	126, 138	FAN15BU.....	153	NHC135W4.....	189
ASY.....	30, 39	CLAA.....	123, 130	FAN15SU.....	153	NHC190W1.....	190
ATB.....	30, 40	CLAB.....	123, 130	FAN15WU.....	153	NHC190W4.....	190
ATO.....	30, 41	CLAH.....	123, 130	FDBU.....	152	NSS.....	36, 111
AUS45.....	195, 211	CLAS.....	123, 130	FDHA.....	31, 54	NTIB.....	36, 112
AWD.....	30, 44	CLBA.....	123, 130	FDHG.....	152	NTIN.....	36, 112
AWS.....	30, 46	CLBB.....	123, 130	FDSU.....	152	NTMB.....	37, 113
BCG.....	126, 141	CLBH.....	123	FDWU.....	152	NTMN.....	37, 113
BC2CF.....	182	CLBS.....	123, 130	FEBU.....	152	NZDRA.....	193
BC2F.....	182	CLCA.....	123, 131	FESU.....	152	NZFTJ.....	193
BC25F.....	182	CLCB.....	123, 131	FEWU.....	152	NZFTS.....	193
BC4CF.....	183	CLCH.....	123, 131	FFBU.....	153	NZFTSH.....	193
BDP-T.....	186	CLCS.....	123, 131	FFSU.....	153	NZTRHU.....	193
BDP-TA.....	186	CLDA.....	123, 131	FFWU.....	153	NZTRL.....	193
BDP45.....	186	CLDB.....	123, 131	FLEXIDRIVER.....	191	NZTRMB.....	193
BDP65.....	186	CLDCA.....	123, 129	FPDA.....	31, 55	PABD.....	36, 108
BDP85.....	186	CLDCB.....	123, 129	HEB.....	128	PAS.....	34, 93
BDP105.....	186	CLDCH.....	123, 129	HEMB.....	128	PAW.....	34, 83, 84
BDP125.....	186	CLDCS.....	123, 129	HFB.....	128	PCAS.....	35, 102
BFG.....	126, 141	CLDH.....	123, 131	HFHB.....	128, 149	PCM.....	36, 105
BMG.....	126, 141	CLDPA.....	123, 129	HFLB.....	128, 149	PCT.....	30, 49
BNM800.....	195, 211	CLDPB.....	123, 129	HFLH.....	128, 149	PCVTM.....	37, 114
BSETG.....	126, 141	CLDPS.....	123, 129	HFWE.....	128	PCVTMH.....	37
BSMFWS.....	126	CLDS.....	123, 131	HJB.....	128	PCW.....	34, 86
BSR.....	126, 141	CLEA.....	124, 132	HJS.....	128	PDP.....	35, 98
CA3WF.....	124, 134	CLEB.....	124, 132	HJU.....	128	PFAW.....	34, 82
CA108.....	194, 208	CLEH.....	124	HMB.....	128	PFAWT.....	34, 82
CA109.....	194, 208	CLES.....	124, 132	HMH.....	128	PFR.....	34, 90
CA2070.....	194	CLFA.....	124, 132	HMS.....	128	PGPW.....	34, 91
CA2075.....	194	CLFB.....	124, 132	HMSB.....	128	PHW.....	36, 109
CA2415.....	194	CLFH.....	124	HMU.....	126, 138	PL1.....	32, 66, 122
CABF.....	124, 134	CLFS.....	124, 132	HNU.....	126, 138	PLB.....	34, 88
CAFF.....	124, 134	CLLB.....	124, 133	HNU.....	126, 138	PLR.....	34, 89
CAFNF.....	124, 134	CLLS.....	124, 133	HPGU.....	127, 144	PPA.....	35, 99, 262
CAHF.....	124, 134	CLPS.....	124, 133	HPSU.....	127, 144	PRCS.....	187, 188

PSAR.....	35, 100	RQF3.....	152, 167	RX64S.....	151, 159	VSCS.....	193
PSB.....	35, 97	RQF4.....	152, 167	RX72B.....	151, 155	WDGU.....	184
PSG.....	34, 92	RQF5.....	152	RX88S.....	151	WDGS.....	184
PSMF.....	36, 104	RQF11.....	152	RXB25G.....	152, 164	WDSS.....	185
PSP.....	35, 95	RQF12.....	152, 167	RXB34G.....	152, 164	WGP.....	33, 79
PSR.....	35, 94	RQF14.....	152, 167	RXB35B.....	151, 157	WJCA.....	127, 143
PSS.....	36, 106	RQF31.....	152, 167	RXD25B.....	151, 156	WJFA.....	127, 143
PSSG.....	36, 106	RQFM3.....	152, 168	RXD25S.....	151, 152, 160	WJMA.....	127, 143
PSSH.....	36, 107	RQFM4.....	152, 169	RXD34B.....	151, 156	WJSE.....	127, 143
PSW.....	35, 96	RQFM5.....	152, 168	RXD34S.....	151, 152, 160	WT.....	33, 81
RBCLEAN.....	196, 217	RQFM11.....	152, 169	RXD48B.....	151, 156		
RBD.....	31, 52	RQFM12.....	152, 168	RXH26NS.....	151, 160		
RBS.....	31, 53	RQFM14.....	152, 169	RXH26S.....	151, 160		
RCCLEAN.....	196, 217	RQFM31.....	152, 16	RXM35B.....	151, 157		
RDCI4.....	196	RQP1.....	33, 75, 122	SF2.....	32, 62		
RDCJ4.....	196	RQP2.....	33, 76, 122	SGJFSU.....	126, 139		
RDLUBE.....	196, 217	RQP5.....	33, 77, 122, 241	SGJU.....	126, 139		
REDEG.....	196, 217	RQP6.....	33, 78, 122	SGJWNF.....	126		
RF100.....	153, 172	RRAW.....	194	SHMF.....	126, 139		
RF100BW.....	153, 172	RRCW.....	194	SJMSF.....	126, 139		
RF100N.....	153, 172	RRHW.....	194	SJMSU.....	126, 139		
RF100W.....	153, 172	RSC.....	181	SPCLU.....	185		
RF200.....	153, 172	RSC4S.....	181	SPCRU.....	185		
RF200BW.....	153, 172	RSHC.....	196, 217	SR.....	31, 56, 122		
RF200N.....	153, 172	RSK-15K.....	195	SRF.....	31, 56, 57, 122		
RF200W.....	153, 172	RSKIT.....	195	SSR.....	33, 73		
RF206.....	153, 173	RSK-PS5K.....	195	SSTFS-M3.....	194		
RF206N.....	153, 173	RSK-PS20P.....	195	SSTFU.....	194		
RF206W.....	153, 173	RST.....	30, 45	SSTHG.....	194		
RF602.....	153, 173	RSTS.....	30, 47	SSTHH.....	194		
RF602N.....	153, 173	RTH1.....	37, 115	STFS-M5.....	194		
RF602W.....	153, 173	RTSHINE.....	196, 217	SW.....	32, 68		
RF1002.....	153	RTW.....	196, 217	SZCA.....	127, 143		
RF1002N.....	153	RWD.....	196, 217	SZFA.....	127, 143		
RF1002W.....	153	RX24B.....	151, 158	SZHA.....	127, 143		
RF1502.....	153	RX24G.....	152, 166	SZMA.....	127, 143		
RF1502N.....	153	RX24S.....	151, 161	SZSE.....	127, 143		
RF1502W.....	153	RX25B.....	151, 156	T1F.....	33, 80, 122		
RGLC.....	196, 217	RX25G.....	152, 164	TMH.....	35, 103		
RGLCM.....	196, 217	RX25S.....	151, 160	TRHS.....	126, 141		
RHBV32.....	195	RX26B.....	151, 155	TRCLS.....	126, 141		
RHBV46.....	195	RX26G.....	152, 162	TRSE.....	126, 141		
RHBV68.....	195	RX26NS.....	151, 160	TRWS.....	126, 141		
RHDD.....	196, 217	RX26S.....	151, 160	UHMW.....	31, 51, 272		
RHFG32.....	195	RX27B.....	151, 155	USAR.....	35, 101		
RHFG46.....	195	RX27G.....	152, 162	VB1S.....	193		
RHFG68.....	195	RX27NS.....	151, 159	VB2S.....	193		
RHFR46.....	195	RX27S.....	151, 159	VB3S.....	193		
RHFR68.....	195	RX33.....	151, 154	VBAB.....	193		
RHFR720.....	195	RX33G.....	152, 162	VBAMFB.....	193		
RHOIL32.....	195, 214	RX33NS.....	151, 159	VBAWB.....	193		
RHOIL46.....	195, 214	RX33S.....	151	VBB.....	193		
RHOIL68.....	195, 214	RX34B.....	151	VBM.....	193		
RHSB32.....	195, 215	RX34G.....	152, 164	VBMFB.....	193		
RHSB46.....	195, 215	RX34S.....	151, 160	VBMFB.....	193		
RHSB68.....	195, 215	RX35B.....	151, 157	VBY.....	193		
RHVI32.....	195, 214	RX35G.....	152, 165	VCS2S.....	193		
RHVI46.....	195, 214	RX35S.....	151	VCS3S.....	193		
RHVI68.....	195, 214	RX37B.....	151, 157	VCSB.....	193		
RHZF32.....	195, 215	RX37G.....	152, 165	VFNB.....	193		
RHZF46.....	195, 215	RX48B.....	151, 156	VGB.....	193		
RHZF68.....	195, 215	RX64B.....	151, 154	VGS.....	193		
RM.....	194	RX64G.....	152, 162	VHNHG.....	193, 201		
RMDEG.....	196, 217	RX64NS.....	151, 159	VSCB.....	193		

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES





































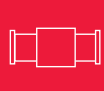






TECHNICAL

INTRODUCTION

HOSE COLOUR INDEX

AIR	FUEL/OIL
AIR/WATER	MATERIAL HANDLING
CHEMICAL/ACID	MULTI PURPOSE
FOOD/BEVERAGE	SPECIALITY

FITTING ICON INDEX

									
CAMLOCK COUPLINGS	CLAW TYPE COUPLINGS WITH SAFETY COLLARS	COMBINATION HOSE NIPPLES	STEAM GROUND JOINT COUPLINGS	HYGIENIC INDUSTRY COUPLINGS	IRRIGATION COUPLINGS	>150 PSI HOSE TAIL COUPLINGS	>300 PSI HOSE TAIL COUPLINGS	<1000 PSI HOSE TAIL HIGH PRESSURE	HARDENED HOSE TAIL COUPLINGS
									
SWAGED COUPLINGS	STAINLESS STEEL HOSE TAIL COUPLINGS	LIGHT DUTY NON-SHARP SHEET METAL	PUSH ON 8000 SERIES	PUSH ON 33000 SERIES					
									
ONE PIECE CRIMP T1000	ONE PIECE CRIMP T2000	ONE PIECE CRIMP T4000	ONE PIECE CRIMP T7000	ONE PIECE CRIMP TT000	INTERLOK TWO-PIECE CRIMP 46000W				
									
FIELD ATTACHABLE 6000 SERIES K000	FIELD ATTACHABLE 6000 SERIES L000	FIELD ATTACHABLE 6000 SERIES M000	FIELD ATTACHABLE 6000 SERIES P000	FIELD ATTACHABLE 6000 SERIES V000					
									
EXTERNAL CRIMP	HEAVY DUTY ONE BOLT CLAMP	STAINLESS STEEL HEAVY DUTY BOLT CLAMPS	BOLT CLAMPS W/ OR W/OUT SAFETY CLAWS	2 BOLT CLAMPS W/ SAFETY CLAWS	HEAVY DUTY BOLT CLAMPS W/ SAFETY CLAWS	WORM DRIVE CLAMPS	STAINLESS STEEL WORM DRIVE CLAMPS	SPIRAL CLAMP	BAND CLAMPING SYSTEMS
									
IMPERIAL/METRIC NYLON FITTINGS	DIVERS	GAS	PVC/METAL NOZZLE	WASHDOWN NOZZLE	USE ONLY APPLICATION APPROVED FITTING	CROCBITE			

ACRONYMS

SS - STAINLESS STEEL
 LP - LOW PRESSURE
 MP - MEDIUM PRESSURE
 HP - HIGH PRESSURE
 HD - HARDENED STEEL

INNOVATION

RYCO's commitment to Innovation and Continuous Improvement ensure that we can deliver tomorrow's solutions today. We believe that our global strength in Engineering, Innovation and Product Development provide our customers a high level of service and solutions unparalleled in the industry.

RYCO's Global Research and Development Test Facilities give our design teams the platform they require to continually improve our products to surpass the performance requirements as demanded by our customers and industry standards.

RYCO's product range is continually expanding and evolving, providing improved efficiency, higher working pressures and increased safety standards.

We design our product for tomorrow's requirements, today.

RYCO's Technology makes us a leader in our industry. Our policy of high investment in technology ensures that we not only maintain our position in the industry, but also continually improve and develop products that surpass industry standards.

We continually enhance our Hose Specifications as we introduce new technical developments.

RYCO's Hydraulic Coupling technology and higher performing ISOBARIC hose families make our matched assemblies a world leader in performance, efficiency and safety.

RYCO's extensive testing process of hose, fittings and assemblies is crucial to deliver accredited and proven product quality.

WE DESIGN OUR PRODUCT FOR TOMORROW'S REQUIREMENT, TODAY.



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

INTRODUCTION

ABOUT RYCO - POLICIES



RYCO QUALITY, SAFETY AND ENVIRONMENTAL POLICIES

RYCO's mission is to exceed our customers', shareholders, stakeholders' and employee expectations through Continuous Improvement.

We are driven by innovation, teamwork and the integrity of our people whilst embracing community, cultural and Quality, Environmental and Health and Safety (QEHS) awareness. RYCO achieve this objective through the integration of the QEHS Management System into the day-to-day operations of all of the company's facilities.

QUALITY POLICY

RYCO specialises in the design, manufacture, distribution and sales of a comprehensive range of high pressure hydraulic hoses and fittings as well as a comprehensive range of industrial hoses and fittings and specialist lubrication products and services. The Company operates on a global scale and its products service a wide range of industrial applications.

Since 1946 RYCO has established an enviable reputation for expertise, service, quality and delivery.

RYCO's Mission is to exceed our customers', shareholders', suppliers' and employees' expectations through continuous improvement driven by innovation, teamwork and the integrity of our people whilst embracing community, cultural and environmental awareness.

RYCO's Quality system and policy requires compliance with applicable industry standards, statutory regulations, world best practice philosophy, value added processes, service and efficiency.

RYCO Management shall ensure that suitable infrastructure and resources are provided and utilised to guarantee Quality is not compromised.

Quality is the responsibility of all RYCO personnel.

RYCO is ISO 9001 certified.

A framed document titled "QUALITY POLICY" containing the same text as the main page. It includes the RYCO logo and contact information: RYCO Hydraulics Pty. Ltd., 19 Whitehall Street, Footscray, VIC 3011, Australia, P: +61 3 9480 8000, F: +61 3 9480 8001, ABN 76 085 527 724. It also features a signature of Leigh Morrison, CEO, and the RYCO logo. At the bottom right, the website www.RYCO.com.au is listed. There is also a small circular logo at the bottom left of the frame.

QUALITY IS THE RESPONSIBILITY OF ALL RYCO PERSONNEL.

OCCUPATIONAL HEALTH AND SAFETY POLICY

RYCO specialises in the design, manufacture and sales of a comprehensive range of high pressure hydraulic hoses and fittings. The Company operates on a global scale and its products service a wide range of industrial applications.

RYCO is committed to protecting the health and safety of employees, contractors, visitors and the general public in the workplace. RYCO shall fulfil this commitment through a health and safety management system that is integrated with RYCO's business activities related to products, services and people.

RYCO employees, contractors and visitors have a duty of care to take reasonable care for their own health and safety and for the health and safety of persons who may be affected by their actions and inactions in the workplace.

RYCO will take reasonably practical steps to improve workplace health and safety conditions and to prevent injury and illness to its employees, contractors, visitors and the general public.

This Policy applies to RYCO fixed and mobile workplaces and persons attending those workplaces. This Policy will be reviewed from time to time for Continuous Improvement, changes to legislation, industry best practices and policy directions within RYCO.

RYCO is OHSAS 18001 certified.



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

ENVIRONMENTAL POLICY

RYCO specialises in the design, manufacture and sales of a comprehensive range of high pressure hydraulic hoses and fittings. The Company operates on a global scale and its products service a wide range of industrial applications.

RYCO is committed to compliance with applicable environmental legislation, regulations and any other requirements to which RYCO subscribes.

RYCO operates a program of continual improvement in environmental performance and pollution prevention, aiming to minimise the environmental impacts resulting from relevant activities.

This Policy applies to RYCO fixed and mobile workplaces and persons attending those workplaces. This Policy will be reviewed from time to time for Continuous Improvement, changes to legislation, industry best practices and policy directions within RYCO.

RYCO ISO 14001 certification is under development.



INTRODUCTION

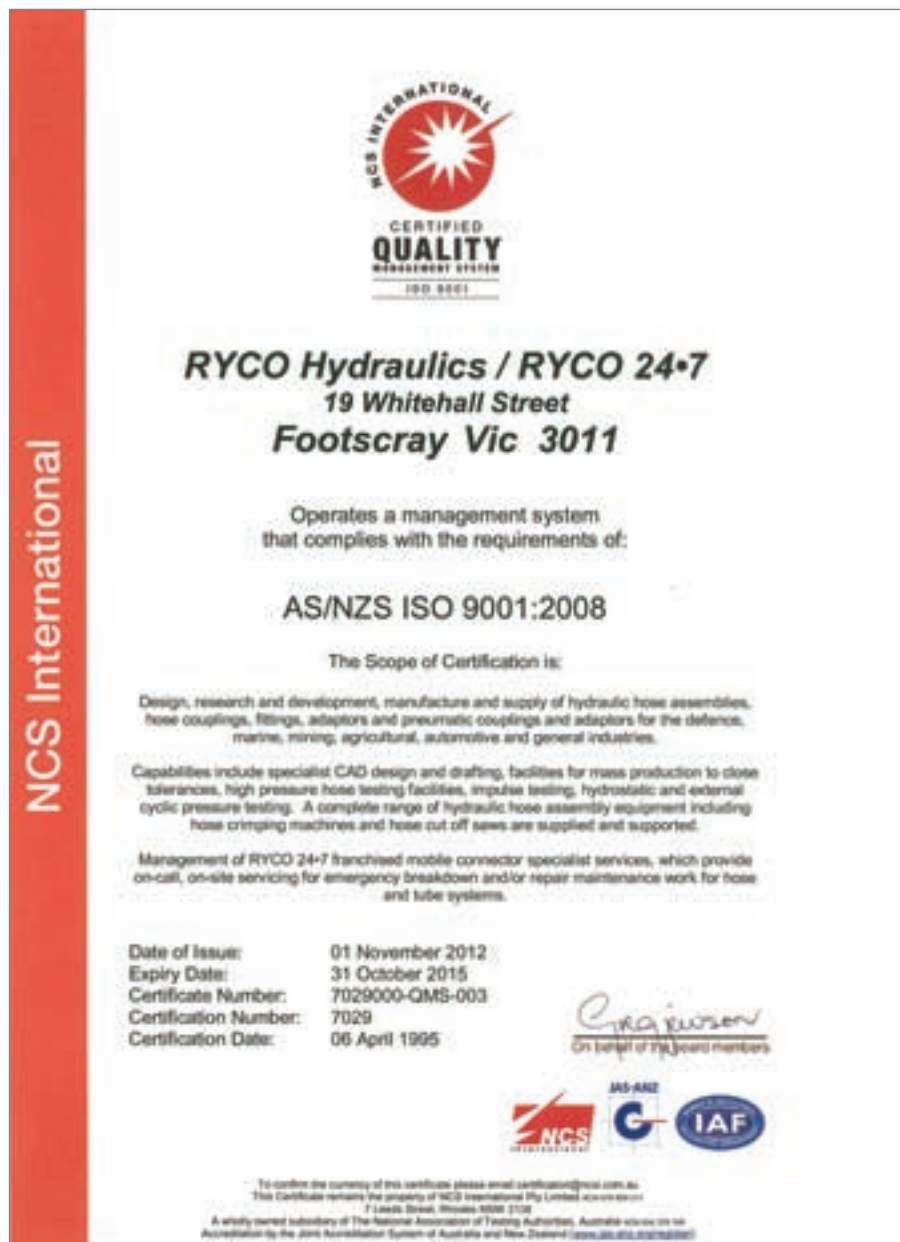
ABOUT RYCO - QUALITY ACCREDITATION

RYCO QUALITY ACCREDITATION

RYCO Hydraulics is certified to the current version of ISO 9001 - Quality Management System. Company Policy is to supply products and services that meet or exceed our industry standards.

These standards include SAE, EN (DIN), AS, ISO, JIS, BS and BCS.

The bottom line in Quality Control (QC) and Quality Assurance (QA) is Customer Confidence and Customer Satisfaction.



**CERTIFIED
QUALITY
MANAGEMENT SYSTEM**

ISO 9001

ISO 9001
A Company Policy.

COMMITTED TO CONTINUAL IMPROVEMENT

RYCO QUALITY ACCREDITATION

RYCO Hydraulics is committed to the objective of zero defects.

As a manufacturer of quality hydraulic hose and fittings, and now a major supplier for a comprehensive range of industrial hoses, fittings and lubrication products, RYCO Hydraulics ensures that our products are accredited by independent third party organisations.

Some of the third party accreditations that RYCO Hydraulics manufactured product have achieved include:



RYCO Hydraulics recommends SAE J1273 as a guide to the selection, manufacture, installation and servicing of hydraulic hose assemblies. RYCO Hydraulics complies with and exceeds third party accreditations as well as international ISO and EN (DIN) standards.

RYCO Hydraulics specifically design and manufacture hydraulic hose and fittings to “match” each other for greater performance and safety. Use only hose assemblies that consist of RYCO “matched” hydraulic hose with RYCO “matched” fittings.

RYCO Hydraulics testing and evaluation processes guarantee the performance and quality required to meet the demands of today’s applications to safely convey fluids at high pressure.

RYCO Hydraulics are proud members of, and contribute to, the world’s main industry groups including:

- ABS** American Bureau of Shipping
- AGA** Australian Gas Association
- BSI** British Standards Institution
- DNV-GL** Det Norske Veritas
- KR** Korean Register
- LR** Lloyd’s Register
- MED** Marine Equipment Directive
- MSHA** U.S. Department of Labor, Mine Safety and Health Administration
- NAHAD** National Association of Hose and Accessories Distributors (USA)
- NFPA** National Fluid Power Association (USA)
- RMA** Rubber Manufacturers Association
- SAE** SAE International
- USCG** US Coast Guard

**RYCO HYDRAULICS
COMPLIES WITH SAE J343
AND SAE AS3791 STANDARDS, AND WITH
THE RELEVANT ISO, EN AND DIN STANDARDS**



OEM SUPPORT

We understand that our success is dependent upon our clients' success.

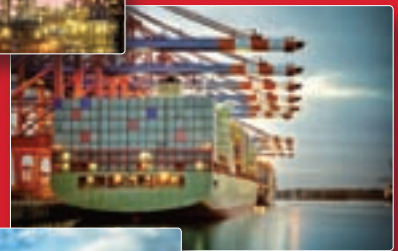
- ✓ Comprehensive engineering solutions
- ✓ Hose management systems
- ✓ Vendor managed stock
- ✓ Cost reduction programs
- ✓ Kanban supply
- ✓ JIT deliveries
- ✓ Reliable despatch

In today's competitive international business environment, the requirements for suppliers and clients to work closely together is greater than ever before. At RYCO we do more than simply supply our product; we listen to our clients as we understand that our success is dependent upon our clients' success.

We actively work with our clients; connecting partnerships across our broad range of services. In partnership we implement and support cost reduction programs, comprehensive engineering solutions, hose management systems, vendor managed stock, Kanban supply, JIT deliveries, and reliable despatch; all of which combine to give higher technology and greater performance to our clients.

Our hydraulics technology and professional expertise is regularly required to solve problems arising from the often unique applications of our clients. The experience and knowledge gained from involvement in these special applications increase our service levels so we can provide a superior service to our clients.

Whether you are a manufacturer involved in the worldwide export market, a mining operation in a remote location, or a local distributor, talk to RYCO about "Connecting Partnerships" to enhance your business.





PRODUCTION

RYCO owns and operates manufacturing facilities in Australia, Malaysia and China, producing a complete range of hydraulic hose and fittings for the world market. Due to our continuous improvement and investment program, and our specialised equipment and technology, we are able to manufacture a large range of hose and fittings efficiently and cost effectively. Our focus on production development and flexible manufacturing systems guarantee that we continually increase production levels and standards.

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

QUALITY

Improved safety and risk management are of prime concern in today's industries. RYCO design hydraulic hose and fittings that MATCH, enabling RYCO hose assemblies to exceed SAE or EN/DIN performance requirements.

RYCO is certified to ISO 9001 Quality Management System and ISO 9002 Quality Systems for Production and Installation by the Department of Defence (Australia).



RYCO CROCBITE

INNOVATION

RYCO's commitment to Innovation and Continuous Improvement ensures that we can deliver tomorrow's solutions today. We believe that our global strength in Engineering, Innovation and Product Development provide our customers a higher level of service and solutions that are unparalleled in the industry.

SERVICE

A key service to our Original Equipment Manufacturers (OEM) customers is the onsite pre-production fluid routing service provided by RYCO 24•7 Mobile Connector Specialists. RYCO 24•7 has extensive coverage specialising in mobile hydraulic hose, fittings, service and replacement 24 hours a day, 7 days a week.

RYCO 24•7 actively supports and services national contracts and OEMs in industries covering the mining, agriculture, marine, construction, defence and industrial market sectors.



INTRODUCTION

ABOUT RYCO - INDUSTRIAL



RYCO IS A SPECIALIST SUPPLIER OF INDUSTRIAL AND HYDRAULIC HOSE AND FITTINGS WITH OVER 65 YEARS EXPERIENCE.



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RYCO KNOW HOW

RYCO is a specialist supplier of hydraulic hose and fittings to the mining industry with over 65 years experience. Whether it is for heavy off-road mining vehicles, underground mining equipment at the coal face, lifting buckets of ore, or shifting mountains of overburden, you will find RYCO products hard at work.

RYCO has offices around the world and is committed to long term support of the resource industry on a global scale. **“Our People Are Our Greatest Asset”**. Dynamic and dedicated our teams bring together the best and most experienced people in the industry.

The focus is to continually improve on our current business activities and ensure we offer quality, technology and service to the resource industry, with safety being our prime objective.

MINING

In today’s competitive international business environment the requirement for suppliers and clients to work closely together is greater than ever before; particularly in the resource industry. At RYCO we do more than simply supply a product; we understand that our success is dependent on our client’s success, safety and quality.

Our teams of field engineers proactively work with our clients **“Connecting Partnerships”** across a broad scope of services to provide complete port-to-port solutions. The resulting fluid connection systems are designed to work; they are reliable, safe and can operate at their maximum potential.

RYCO is a solution-based supplier providing our clients with a complete range of services including on-time delivery, solving difficult engineering problems, cost reduction activities, on-site hose management systems and asset management. Many mining operations around the globe rely on RYCO’s extensive knowledge of the mining industry and RYCO’s large range of services to deliver them substantial cost reduction benefits.

INTRODUCTION

ABOUT RYCO - MDG-41 AND MDG-15 SAFE



MDG 41

MDG 41 is a document which was created in response to an increasing number of incidents involving high-pressure fluid injection injuries on mine sites. In response to this, the NSW Department of Primary Industries (DPI) established a joint committee with involvement from the Mining Industry, Equipment Manufacturers, Repairers, and Suppliers of Fluid Power components in order to formulate a 'best practice' document. The result is Mechanical Design Guideline Number 41 (MDG 41).

The Mechanical Design Guidelines are a series of tools to assist companies in achieving compliance with the OH&S Act and Regulations through implementing industry best practices. We all have a duty of care to assess the hazards in the workplace and to implement systems and programs in order to eliminate or minimise the risk they present.

These documents prompt the review of many areas in fluid power systems that may present a risk and set out guidelines on how they should be addressed using 'best industry practice'.

RYCO have a commitment to OH&S and the MDGs, and as such have developed products and strategies to assist our customers in understanding the requirements of the guidelines. We can assist you to adopt the recommended practices outlined in MDG 41 and MDG 15.

MDG 15

MDG15 is a guideline for all mobile or transportable plant used at mines, and refers to MDG41 for fluid power systems. It has further requirements in relation to the routing of hosing.

MATCHED SYSTEM MDG 41 - CLAUSE 1.6.13

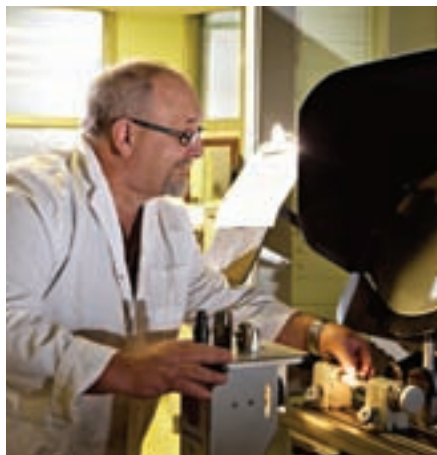
Where the hose and fittings (insert/ferrule) are from the same manufacturer and are assembled and crimped using the method as specified by that manufacturer.

MATCHED SOLUTIONS

Today's hydraulic systems are required to withstand tremendous pressures. This means that the attachment of a fitting to the end of a hose becomes more critical. This may be a simple operation, but it is a complex engineering solution.

International Hose standards specify a set of materials and tolerances, such as internal and external dimensions and reinforcement types and patterns. The reality is that while these standards are adhered to by all manufacturers, the tolerances themselves are so broad that if the entire allowable tolerance was used in manufacturing, users would encounter a high failure rate due to hose and fitting tolerance mismatching. High quality hose manufacturers have to adopt their own tolerance limits which are often at least half of the allowed range.

This is where "Mixing and Matching" becomes an issue: Component manufacturer 'A' could produce parts on the lower limits of the tolerance, and manufacturer 'B' is on the upper end of the tolerance. If a fitting from 'B' was put on a hose from 'A' at the specified crimp diameter of 'B', there would be little chance of adequate fitting retention, which would most likely result in failure. Similarly if a fitting from 'A' was assembled to a hose from 'B' the likelihood is that the inner tube of the hose would be over-compressed or the hose reinforcement could be cut; again resulting in premature failure.



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

MDG 41 stipulates hose assemblies shall only be carried out using “Matched Hose and Fittings” (MDG 41 Clause 3.7.6.1k). MDG 41 defines a “Matched System” as “where the hose and fittings (insert/ferrule) are from the same manufacturer and are assembled and crimped using the method as specified by that manufacturer” (MDG 41 Clause 1.6.13).

Suppliers of manufactured hydraulic hose assemblies must be able to guarantee that the hose and fittings used are matched. RYCO products provide our customers with a matched system. Our design teams create and stringently test the hoses and fittings together to ensure optimum performance and reliability. All this is achieved using RYCO’s assembly methods which are reliable and easy to follow.

COMPETENCE MDG 41 CLAUSE - 3.7.6.6

Persons fabricating hose assemblies shall be competent and trained in the proper use of equipment, materials, assembly procedures and testing. People should be assessed in their competence for hose assembly and the assessment should be recorded.

SAFETY SOLUTIONS

Our team of experienced engineering personnel can provide an engineering solution to suit your needs. Whether it’s a simple question of product application, or the supply contract to multiple mine sites, we have the knowledge, experience and products to give you the most complete solution to your needs.

Experience is a very important quality in a supplier. The experience that RYCO has gained in many industries is a tangible asset, and one that keeps customers coming back to us, because, like you, we’ve been out there working. The chances are that we’ve already supplied to someone who had exactly the same need for a solution as you, and that we’ve already helped someone else find that solution. **“That’s experience”**.

RYCO is aware of its responsibility to you the customer. We understand that the supply of our product does not finish with the goods being shipped.

Hydraulic and industrial hose assemblies can present a very real danger if misapplied. We understand this, and can provide you with the competence-based training to ensure that you have the methods, products and knowledge to manufacture a matched hose assembly each and every time.

RESEARCH

RYCO is a specialist supplier of hydraulic and industrial hose and fittings to the mining industry. Heavy-duty mining requires heavy-duty product. RYCO is constantly working together with the mining industry to research and develop new technologies and solutions to your specific requirements.



INTRODUCTION

ABOUT RYCO - SERVICES AND SUPPORT - TRAINING

RYCO KNOW HOW - PRODUCT TECHNICAL MANUAL - INDUSTRIAL



RYCO KNOW HOW

RYCO Know How is a broad range of modular training solutions created to meet the needs of the hydraulic industry.

Designed, developed and delivered by RYCO; RYCO Know How embodies the expertise of a specialist manufacturer and supplier of hose and fittings with over 65 years experience in the Industry.



With safety a priority RYCO training equips you with the knowledge and confidence you need.

RYCO Know How is suitable for RYCO Employees, Franchise Operators, Distributors, Customers and end users.

Delivery methods include:

- Hosted face-to-face training sessions online.
- Interactive self-paced modules.

Hosted sessions are conducted at RYCO's Melbourne, branch or customer/OEM facilities.

Contact your RYCO Representative for access to www.RYCOknowhow.com.



RYCO is committed to a program of continued improvement and further development of our Know How training products and services to meet the varied needs of the Australian and New Zealand Industrial hose and fittings industry.

Training titles will include:

- Product Technical Manual-Industrial
- Industrial Hose, Introduction
- Types, Construction, Applications
- Industrial hose, Specifications and Selecting
- STAMPED, Questionnaire, Industry Types
- Industrial Couplings Selection and Assembly
- Hose Assembly Visual Evaluation

HAVE - HOSE ASSEMBLY VISUAL EVALUATION

HAVE is a training presentation with three purposes:

- ☑ To highlight the dangers inherent with the use of damaged hoses.
- ☑ To demonstrate signs of potential failure.
- ☑ To explain best practices for hose installation.



Hydraulic hoses are designed and built to work in high pressure systems.

Therefore a failing hose presents great potential for harm.

The RYCO HAVE training program conveys a message demonstrating ways of reducing risks.



RYCO HAVE is a computer-based program that can be presented formally to a group, or run individually as a self-paced learning program.

Risk reduction is a 4-part process:

- Stop and identify the hazards.
- Assess the risks.
- Manage the risks.
- Take action to make it safe.



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

INTRODUCTION

ABOUT RYCO - SERVICES AND SUPPORT - RYCO 24•7



RYCO 24•7 - MOBILE HOSE AND FITTING SERVICE - HYDRAULIC AND INDUSTRIAL

During 65 years of business, RYCO has increased its market coverage by establishing RYCO 24•7 Service Centres, Mobile Connector Specialists and Onsite Container Workshops in several countries around the world.

Today RYCO 24•7 has extensive coverage specialising in mobile hose, fittings, service and replacement 24 hours a day, 7 days a week. RYCO 24•7 actively supports and services national contracts and Original Equipment Manufacturers (OEM) in industries covering mining, agriculture, marine, construction, defence and industrial markets.

With the continued support of RYCO Hydraulics, Australia's leading manufacturer of hydraulic hose and fittings, we offer a network of RYCO 24•7 Service Centres, Mobile Connector Specialists and Onsite Container Workshops for the emergency breakdown, programmed maintenance, OEM support, installation and aftermarket businesses.

RYCO 24•7 MISSION STATEMENT

Our Mission is to listen to our customers and deliver the highest quality and technologically superior fluid conveying connection products and solutions.



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

Increases productivity and profitability.

Extensive training and support.

Ensures minimal downtime.

Set-up to suit specific site requirements.

Onsite container workshop and inventory storage.

Ideal for remote locations, fully relocatable.

RYCO 24•7 SERVICES

RYCO 24•7 offers a comprehensive service to many industries with emergency break down, programmed maintenance, Original Equipment Manufacturer (OEM) support, installation and aftermarket businesses. Our professionally trained and dedicated teams are on call 24 hours a day, 7 days a week offering expert technical support for all types of hydraulic and industrial systems.

Whether it is mining, marine, agriculture, defence, construction, industrial or utilities, the team at RYCO 24•7 will be on hand; anywhere, anytime, to offer you professional assistance.

RYCO 24•7 Service Centres, Mobile Connector Specialists and Onsite Container Workshops offer extensive national contract and OEM support through the development of hose assembly design, configuration, installation and aftersales service.

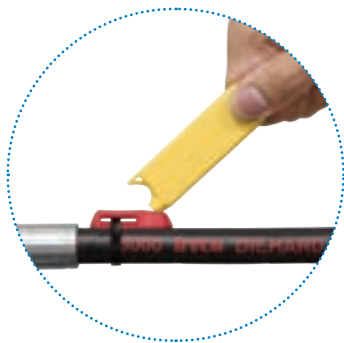
Quite often hose assembly plumbing can be an afterthought when designing complex hydraulic systems. With RYCO 24•7 support, our technical teams have the knowledge to assist with efficient and effective port-to-port solutions in the early stages of system design.

With comprehensive product and system knowledge, RYCO 24•7 technicians can be an integral partner in developing a market leading product including efficiency in system performance, warranty reduction and aftersales service.

ONSITE HOSE CONTAINERS

As part of the ongoing focus on customer service, RYCO 24•7 has developed a new range of onsite hose assembly workshops and product storage containers. The RYCO 24•7 containers are an ideal solution for remote mining locations as well as construction, offshore and large manufacturing sites.

RYCO



RAM
RYCO ASSET MANAGEMENT

By combining RFID technology with ease of use, RYCO Asset Management brings greater safety and productivity direct to your work site.

INCREASED PRODUCTIVITY

The RYCO Asset Management Program, RAM, incorporates an SQL database and HALP, a RYCO Know How technology.

Hose assemblies can be designed using HALP, RYCO's Hose Assembly Life Prediction system, to maximise lifespan. The HALP system creates a preventative schedule of maintenance and testing for each hose assembly or groups of hose assemblies.

RAM is accessed via the internet, giving you the ability to manage your assets globally. RAM can be customised to suit your requirements, no matter their scale or complexity.



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

SCAN AND GO

Track and trace your hose assemblies providing you with maximum availability. RYCO RAM works with existing barcode hose tags, and can now use RFID (radio frequency identification) tags on hose assemblies, to speed up and simplify identification.

RFID tags, in conjunction with RAM, give operators instant access to essential hose assembly information for maintenance and testing.

RYCO RFID hose tags are 'Passive' allowing you to work without any electrical interference to your items. Rugged and built to last, the RAM Mobile Device is designed to CE Electrical approvals.



MAXIMISE OPERATIONAL EFFICIENCY



GREATER EQUIPMENT UTILISATION



PROACTIVE MAINTENANCE MANAGEMENT

INTRODUCTION

RYCO TIMELINE



1946

ORIGINS

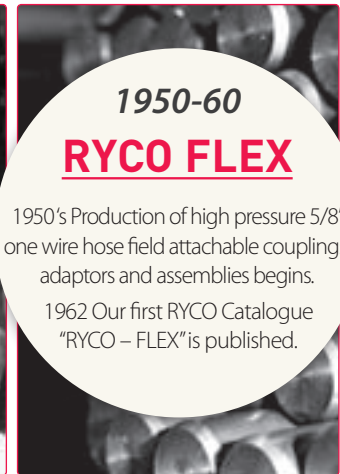
1946 Australasian Steel Products Pty Ltd commences business in Australia.

INDUSTRIAL PRODUCTS

RYCO's Industrial Rubber, PVC and Thermoplastic hoses are designed to suit your demanding requirements. Whether your requirement is for Low, Medium or High Pressure systems, RYCO is here for you.

RYCO understands today's exacting requirements and brings to you expert engineering solutions, fluid transfer asset management and onsite support.

- > **AGRICULTURE AND PUMPING**
- > **BULK ROAD AND RAIL TRANSPORT**
- > **CHEMICAL**
- > **CONSTRUCTION AND MINERAL**
- > **FOOD AND BEVERAGE PROCESSING**
- > **MANUFACTURING**
- > **MARINE AND WHARF**
- > **MINING**
- > **PETROLEUM**
- > **WASTE AND RECYCLING**



1950-60

RYCO FLEX

1950's Production of high pressure 5/8" one wire hose field attachable couplings, adaptors and assemblies begins.

1962 Our first RYCO Catalogue "RYCO - FLEX" is published.





1977
SUCCESSION

Leigh Morrison starts his journey with RYCO.



1970-80
NEW ERA

1984 Head Office Administration and Warehouse relocate from Moreland Street to Whitehall Street, Footscray.
1986 Leigh Morrison is appointed Managing Director.



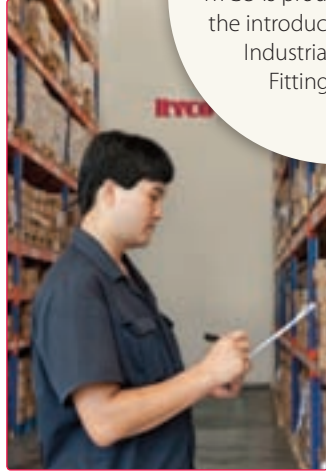
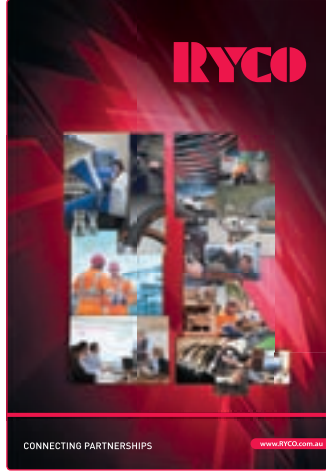
1990-2000
EXPANSION

RYCO owns and operates manufacturing facilities in Australia, Malaysia and China, producing a complete range of hydraulic hose and fittings for the world market.



2015
INDUSTRIAL

RYCO is proud to announce the introduction of its new Industrial Hose and Fittings range.



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

INTRODUCTION

DASH SIZE PART NUMBERING

QUICK REFERENCE CHART OF DASH SIZE EQUIVALENT

EXAMPLE: Find Dash Size for 1.5/16" JIC thread. Read down JIC & UNO column until 1.5/16" is reached.
Read off Dash Size in far left column (-21).

DASH SIZE	* INCH	BSP INCH-TPI	NPT INCH-TPI	JSEAL™ INCH-TPI	JIC& UNO INCH-TPI	SAE FLARE INCH-TPI	ORFS INCH-TPI	DASH SIZE	** MM	METRIC MM X PITCH
-02	1/8	1/8 - 28	1/8 - 27					-02	2	
-03	3/16							-03	3	
-04	1/4	1/4 - 19	1/4 - 18					-04	4	
-05	5/16			5/16 - 24	5/16 - 24	5/16 - 24		-05	5	
-06	3/8	3/8 - 19	3/8 - 18	3/8 - 24	3/8 - 24	3/8 - 24		-06	6	
-07	7/16			7/16 - 20	7/16 - 20	7/16 - 20		-07	7	
-08	1/2	1/2 - 14	1/2 - 14	1/2 - 20	1/2 - 20	1/2 - 20		-08	8	
-09	9/16			9/16 - 18	9/16 - 18		9/16 - 18	-09	9	
-10	5/8	5/8 - 14				5/8 - 18		-10	10	
-11	11/16						11/16 - 16	-11	11	
-12	3/4	3/4 - 14	3/4 - 14	3/4 - 16	3/4 - 16	3/4 - 16		-12	12	
-13	13/16						13/16 - 16	-13	13	
-14	7/8			7/8 - 14	7/8 - 14	7/8 - 14		-14	14	14 x 1,5 (-1415)
-15	15/16							-15	15	
-16	1	1 - 11	1 - 11.1/2				1 - 14	-16	16	16 x 1,5 (-1615)
-17	1.1/16			1.1/16 - 12	1.1/16 - 12	1.1/16 - 14		-17	17	
-18	1.1/8							-18	18	18 x 1,5 (-1815)
-19	1.3/16						1.3/16 - 12	-19	19	
-20	1.1/4	1.1/4 - 11	1.1/4 - 11.1/2					-20	20	20 x 1,5 (-2015)
-21	1.5/16			1.5/16 - 12	1.5/16 - 12			-21	21	
-22	1.3/8							-22	22	22 x 1,5 (-2215)
-23	1.7/16						1.7/16 - 12	-23	23	
-24	1.1/2	1.1/2 - 11	1.1/2 - 11.1/2					-24	24	24 x 1,5 (-2415)
-25	1.9/16							-25	25	
-26	1.5/8			1.5/8 - 12	1.5/8 - 12			-26	26	26 x 1,5 (-2615)
-27	1.11/16						1.11/16 - 12	-27	27	
-28	1.3/4							-28	28	
-29	1.13/16							-29	29	
-30	1.7/8			1.7/8 - 12	1.7/8 - 12			-30	30	30 x 1,5 (-3015) 30 x 2,0 (-3020)
-31	1.15/16							-31	31	
-32	2	2 - 11	2 - 11.1/2				2 - 12	-32	32	
-33	2.1/16							-33	33	33 x 1,5 (-3315)
-36	2.1/4							-36	36	36 x 1,5 (-3615) 36 x 2,0 (-3620)
-40	2.1/2	2.1/2 - 11	2.1/2 - 8	2.1/2 - 12	2.1/2 - 12			-40	40	
-42	2.5/8							-42	42	42 x 1,5 (-4215) 42 x 2,0 (-4220)
-48	3	3 - 11		3 - 8	3 - 8			-48	48	
-50	3.1/8							-50	50	50 x 2,0 (-5020)
-52	3.1/4							-52	52	52 x 2,0 (-5220)
-60	3.3/4							-60	60	60 x 2,0 (-6020)
-63	3.15/16							-63	63	
-75	4.11/16							-75	75	

***INCH COLUMN IS USED FOR:**

Hose ID.
Imperial Tube OD.
FS1072 FIRE SLEEVE ID.
Nominal size of SAE FLANGE.
Nominal size of Quick Release Coupling.

****MM COLUMN IS USED FOR:**

Metric Tube OD.
Nominal size of CROCBITE, RKV,
STAPLELOK and SUPERLOK
Couplings.












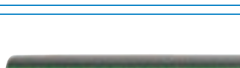


HOSE





HOSE

PICTORIAL INDEX



HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	MAXIMUM TEMPERATURE	MAXIMUM WORKING PRESSURE
RUBBER - AIR						
38	AJY DELIVERY		-12 to -16 3/4" to 1"	Compressor and jackhammer applications. Suited for construction, industrial, and agricultural applications.	Black, smooth synthetic rubber tube with oil mist resistance. High tensile synthetic yarn reinforcement. Yellow smooth extruded synthetic rubber cover with good ozone and abrasion resistance.	+80°C (+176°F). 20 bar/300 psi.
39	ASY DELIVERY		-16 to -48 1" to 3"	Heavy Duty, High Pressure compressed air; widely used in mining and quarries.	Black SBR/NBR tube - oil mist resistant. High tensile steel cord reinforcement. Yellow SBR cover - abrasion and ozone resistant, pin pricked.	+85°C (+185°F). 40 bar/600 psi up to -32.
40	ATB DELIVERY		-04 to -16 1/4" to 1"	Air and water delivery.	Black SBR/NBR tube. High tensile synthetic yarn reinforcement. Black EPDM/SBR cover - abrasion and ozone resistant.	+80°C (+176°F). 20 bar/300 psi.
41	ATO DELIVERY		-20 to -64 1.1/4" to 4"	Heavy Duty compressed air for construction, quarry and mining applications.	Black, smooth synthetic rubber tube with oil mist resistance. (Blended SBR). High tensile synthetic yarn reinforcement. Black wrapped cover with good ozone and abrasion resistance (Blended EPDM).	+80°C (+176°F). 20 bar/300 psi.
RUBBER - AIR/WATER						
42	MS1000 DELIVERY		-08 to -32 1/2" to 2"	Ideal for use on High Pressure continuous mining equipment in both longwall coal or hardrock mining, or as a general hot water service hose.	Black, oil resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Yellow, oil resistant and abrasion resistant synthetic rubber cover.	+100°C (+212°F). 70 bar/1000 psi.
43	CS1000 DELIVERY		-08 to -32 1/2" to 2"	Ideal for use on High Pressure continuous mining equipment in both longwall coal or hardrock mining, or as a general hot water service hose.	Black, oil resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Black and yellow, oil resistant and abrasion resistant synthetic rubber cover.	+100°C (+212°F). 70 bar/1000 psi.
44	AWD DELIVERY		-12 to -64 3/4" to 4"	Air or water delivery hose. Suited to be used in industrial, earthwork construction, mining, and agriculture applications.	Black, smooth synthetic rubber tube. (Blended NR/SBR). High tensile synthetic yarn reinforcement. Black wrapped cover with good ozone and abrasion resistance (Blended SBR/EPDM).	+80°C (+176°F). 10 bar/150 psi.
45	RST DELIVERY		-08 to -64 1/2" to 4"	Heavy Duty FRAS air/water and stone or rock dust delivery hose. Especially for use in underground coal mines.	NBR/SBR blend tube, anti-static compound. 4 plies of high tensile synthetic cord reinforcement. NBR / EPDM blend cover, anti-static compound, abrasion, ozone and fire resistant.	+80°C (+176°F). 20 bar/300 psi.
46	AWS SUCTION/DELIVERY		-16 to -64 1" to 4"	High quality water suction and delivery Hose. Suited for industrial, earthwork construction, mining, agriculture applications.	Black, smooth synthetic rubber tube. (Blended NR/SBR). High tensile synthetic cord and a quality steel helix wire reinforcement. Black wrapped cover with good ozone and abrasion resistance.	+80°C (+176°F). 15 bar/225 psi.
47	RSTS SUCTION/DELIVERY		-24 to -64 1.1/2" to 4"	Heavy Duty FRAS water suction or air, stone or rock dust transfer. Suits use in underground coal mines.	NBR/SBR blend tube, anti-static compound. 4 plies spiral wire helix reinforcement, embedded into the wall of the hose. NBR/EPDM blend cover, anti-static compound, abrasion, ozone and fire resistant.	+70°C (+158°F). 10 bar/150 psi.
48	MEH SUCTION		-12 to -192 3/4" to 12"	Suitable for water cooled diesel engine exhaust gas systems installed on a small craft less than 24m in length or pleasure yachts.	Black, smooth, synthetic rubber tube. High strength synthetic cord and helix wire reinforcement. Black, corrugated (wrapped finish), synthetic rubber cover, weathering and abrasion resistant.	+100°C (+212°F). 3 bar/45 psi.
49	PCT DELIVERY		-08 to -32 1/2" to 2"	Ideal for underground and surface mining hose protection.	Anti-static NBR/SBR blend tube. 2 ply textile reinforcement. Black, smooth (wrapped finish), resistant rubber and weathering resistant cover.	+75°C (+167°F). 5 bar/75 psi.

HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	MAXIMUM TEMPERATURE	MAXIMUM WORKING PRESSURE
-------------	--	-----------------	-------------	--------------	---------------------	--------------------------

RUBBER - CHEMICAL/ACID

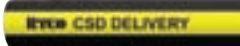









50	CSX		-16 to -48 1" to 3"	Suction and delivery of acid and chemicals.	Transparent XPPE (Cross Linked Polyethylene) tube. High tensile textile cords with embedded steel helical wire reinforcement. Green EPDM cover - abrasion and ozone resistant.	+90°C (+194°F).	16 bar/235 psi.
	SUCTION/DELIVERY						
51	UHMW		-16 to -64 1" to 4"	Suitable for many different chemicals used in a very wide range of applications.	Smooth, ultra high molecular weight polyethylene impervious tube. High strength synthetic cords encasing a steel wire helix. Blue, corrugated EPDM cover with excellent chemical resistance.	+65°C (+149°F)	10 bar/150 psi.
	SUCTION/DELIVERY						










RUBBER - FOOD/BEVERAGE

52	RBD		-12 to -64 3/4" to 4"	Suitable for oil and non-oil based foods and beverages, including liquid food, edible oils, alcoholic and non-alcoholic beverages.	Smooth non-porous white EPDM tube. 4 Plies of high tensile synthetic cord with embedded steel helical wire reinforcement. EPDM/SBR blend cover - excellent abrasion, ozone resistance.	+100°C (+212°F).	10 bar/150 psi.
	DELIVERY						
53	RBS		-16 to -64 1" to 4"	Suitable for oil and non-oil based foods and beverages, including liquid food, edible oils, alcoholic and non-alcoholic beverages.	Smooth non-porous white EPDM tube. 4 Plies of high tensile synthetic cord with helical steel wire reinforcement. EPDM/NR blend cover has excellent abrasion, ozone resistance.	+95°C (+203°F).	12 bar/175 psi up to -40.
	SUCTION/DELIVERY						

RUBBER - FUEL/OIL

54	FDHA		-20 to -32 1.1/4" to 2"	Delivery of oil and fuel up to 50% aromatic content.	Black, oil resistant NBR tube. High tensile textile cords with anti-static wire reinforcement. Red EPDM/NBR cover - abrasion, ozone and hydrocarbon resistant.	+80°C (176°F).	10 bar/150 psi.
	DELIVERY						
55	FPDA		-20 to -64 1.1/4" to 4"	Delivery of oil and fuel up to 50% aromatic content.	Black, oil resistant NBR tube. High tensile textile cord with anti-static wire reinforcement. Red EPDM/NBR cover - abrasion, ozone and hydrocarbon resistant.	+80°C (176°F).	20 bar/300 psi.
	DELIVERY						
56	SR		-12 to -48 3/4" to 3"	Petroleum and water-based hydraulic fluids in suction lines or in Low Pressure return lines.	Oil resistant synthetic rubber tube. Textile reinforcement with spiral wire to prevent collapsing. Oil resistant and abrasion resistant synthetic rubber cover.	+100°C (+212°F).	21 bar/300 psi at -12.
	SUCTION/DELIVERY						
57	SRF		-12 to -32 3/4" to 2"	Petroleum and water base hydraulic fluids in suction lines or in Low Pressure return lines.	Oil resistant synthetic rubber tube. Textile reinforcement with spiral wire to prevent collapsing. Oil resistant and abrasion resistant synthetic rubber cover.	+100°C (+212°F).	21 bar/300 psi at -12.
	SUCTION/DELIVERY						
58	M1		-04 to -06 1/4" to 3/8"	Multi-purpose hose for use on fuel lines, PCV and EEC systems, and fuel return hose connections on diesel fuel injection systems.	Oil resistant synthetic rubber tube. One textile braid reinforcement. Oil resistant synthetic rubber cover.	+125°C (+257°F).	3,5 bar/50 psi.
	DELIVERY						
59	M2		-04 to -12 1/4" to 3/4"	Medium Pressure hydraulic oil lines, antifreeze solutions, and water.	Oil resistant synthetic rubber tube. Two textile braids reinforcement. Oil resistant and abrasion resistant synthetic rubber cover.	+100°C (+212°F).	88 bar/1250 psi at -4.
	DELIVERY						

HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	MAXIMUM TEMPERATURE	MAXIMUM WORKING PRESSURE
RUBBER - MATERIAL HANDLING						
60	CSD DELIVERY		-32 to -96 2" to 6"	Placement of concrete to the casting location.	Black conductive NR and CBR tube - very high abrasion resistant. High tensile steel wire cord reinforcement. Synthetic rubber cover - abrasion, ozone and weather resistant.	70°C (+158°F). 85 bar/1233 psi.
61	MHD DELIVERY		-48 to -80 3" to 5"	Delivery of dry powder material and cement.	Black conductive NR tube - high abrasion resistant. High tensile textile cord reinforcement. Black conductive EPDM/NR cover - high abrasion resistant.	+80°C (+176°F). 10 bar/150 psi.
62	SF2 SUCTION/DELIVERY		-20 to -48 1.1/4" to 3"	Suitable for a range of applications including: air seeder, grains, granular and liquid fertilisers, light slurries or water.	Black NR Tube. Textile reinforced with twin spiral wire helix reinforcement. Black SBR/EPDM blend cover.	+70°C (+158°F). 12 bar/175 psi.
RUBBER - MULTI PURPOSE						
63	MP1 DELIVERY		-04 to -20 1/4" to 1.1/4"	Air, water, petroleum oils, kerosene and fuel oils.	Oil resistant synthetic rubber tube. One textile braid reinforcement. Oil resistant and abrasion resistant synthetic rubber cover.	+93°C (+200°F). +49°C (+120°F). Dependent on material. 13,8 bar/200 psi.
64	MP2 DELIVERY		-04 to -16 1/4" to 1"	Air, water, petroleum oils, kerosene and fuel oils.	Black, oil resistant synthetic rubber tube. High oil resistance. One textile braid reinforcement. Red, oil resistant and abrasion resistant synthetic rubber (Modified Nitrile) cover.	+93°C (199°F). 20 bar/300 psi.
65	MPX DELIVERY		-20 to -32 1.1/4" to 2"	Delivery of fuel, oil, compressed air and water.	Black NBR tube. High tensile textile cord reinforcement. Red EPDM/NBR cover - abrasion and ozone resistant.	+80°C (176°F). 20 bar/300 psi.
66	PL1 DELIVERY		-04 to -12 1/4" to 3/4"	Petroleum-based hydraulic oils, glycol antifreeze solutions, water, diesel fuels, and air.	Oil resistant synthetic rubber tube. One textile braid reinforcement. Oil and abrasion resistant synthetic rubber cover.	+95°C (+203°F). 28 bar/410 psi up to -08.
RUBBER - SPECIALITY - SHOCKWAVE AND JETSTORM						
68	SW SHOCKWAVE		-06 to -16 3/8" to 1"	Cleaning and preparation of marine surfaces, runway and swimming pool cleaning, and paint removal.	Oil and water resistant synthetic rubber tube. Four high tensile steel spirals reinforcement. Oil, water and ozone resistant synthetic rubber cover.	+80°C (+176°F) with intermittent service to +100°C (+212°F). 1250 bar/18125 psi at -06.
71	JS4000 JETSTORM		-04 to -08 1/4" to 1/2"	Hot Water Pressure Washer Machines.	Black, heat resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Black oil resistant and abrasion resistant synthetic rubber cover. Embossed layline in 3 colours.	+121°C (+250°F), with intermittent service to +135°C (+275°F). 280 bar/4100 psi.
72	JS6000 JETSTORM		-04 to -08 1/4" to 1/2"	Hot Water Pressure Washer Machines. High Pressure.	Black, heat resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Black oil resistant and abrasion resistant synthetic rubber cover. Embossed layline in 3 colours.	+121°C (+250°F), with intermittent service to +135°C (+275°F). 420 bar/6100 psi.

HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	MAXIMUM TEMPERATURE	MAXIMUM WORKING PRESSURE	
RUBBER - SPECIALITY							
73	SSR		-08 to -24 1/2" to 1.1/2"	Widely used in refineries, shipyards and petrochemical plants.	Black EPDM tube. High tensile steel cord reinforcement. Red EPDM cover - heat, abrasion and ozone resistant, pin pricked.	+210°C (+410°F).	17 bar/250 psi.
	DELIVERY-STEAM						
74	M2G		-04 to -12 1/4" to 3/4"	Liquified Petroleum Gas and Natural Gas.	Oil resistant synthetic rubber tube. Two textile braids reinforcement. Abrasion resistant synthetic rubber perforated cover.	+65°C (+149°F).	26 bar/375 psi.
	DELIVERY-GAS						
75	RQP1		-04 to -16 1/4" to 1"	High Pressure hydraulic oil applications, or where resistance to phosphate ester fluid is required.	Synthetic rubber tube, compounded for temperature resistance and multi-fluid resistance. One braid of high tensile steel wire reinforcement. Oil resistant and abrasion resistant synthetic rubber cover.	+150°C (+302°F).	225 bar/3250 psi at -04.
	SURVIVOR™						
76	RQP2		-04 to -32 1/4" to 2"	High Pressure hydraulic oil applications, or where resistance to phosphate ester fluid is required.	Synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil resistant and abrasion resistant synthetic rubber cover.	+150°C (+302°F).	400 bar/5800 psi at -04.
	SURVIVOR™						
77	RQP5		-04 to -32 1/4" to 2"	Medium to High Pressure hydraulic oil applications, or where resistance to phosphate ester fluid is required.	Oil resistant synthetic rubber tube. Polyester inner braid covered with one braid of high tensile steel wire reinforcement. Polyester braid cover.	+150°C (+302°F).	210 bar/3050 psi up to -05.
	SURVIVOR™						
78	RQP6		-04 to -12 1/4" to 3/4"	Hydraulic oil lines, transmission oil cooler lines, glycol antifreeze solutions, water, diesel fuels and air.	Oil resistant synthetic rubber tube. One textile braid reinforcement. Oil resistant and abrasion resistant synthetic rubber cover.	+135°C (+275°F) +150°C (+302°F) +100°C (+212°F) +71°C (+160°F). Dependent on material and operating time.	28 bar/410 psi up to -08.
	SURVIVOR™ PUSH-ON						
79	WGP		-08 to -16 1/2" to 1"	Suitable for use in most food processing plants ie dairy, meat, poultry, confectionery etc.	White NBR tube. Textile reinforced. Fat resistant White NBR cover.	+90°C (194°F).	21 bar/300 psi.
	DELIVERY-HOT WASH						
80	T1F		-03 to -16 3/16" to 1"	Fire Suppression Systems of off-road vehicles, mining equipment, stationary engines, etc.	Oil resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Red, heat resistant, abrasion resistant and oil resistant rubber cover.	+100°C (+212°F).	250 bar/3600 psi at -03.
	FIRE SUPPRESSION						
81	WT		-03 3/16"	Welding purposes.	Black SBR/NBR tube. High tensile synthetic yarn reinforcement. Red/blue EPDM/SBR cover - abrasion and ozone resistant.	+80°C (176°F).	20 bar/300 psi.
	DELIVERY-WELDING						

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RYCO'S INDUSTRIAL RUBBER AND PVC HOSE - CUT LENGTH POLICY.

Please note that RYCO has a Cut Length Policy in place, which includes both "Cutting Charges" and/or a "Minimum Length Criteria" for all of our Industrial Hoses and Tubing. Please refer to our Industrial Price List, or contact our Customer Service Department for the specific details.

If specific cut lengths are required, these "charges and criteria" must be clearly specified and accepted when placing orders.

Goods manufactured to Order/Cut or Modified to meet the customer's specifications "cannot be returned for credit or exchange".

HOSE

PICTORIAL INDEX

HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	MAXIMUM TEMPERATURE	MAXIMUM WORKING PRESSURE
PVC - AIR/WATER						
82	PFAW DELIVERY		-06 to -32 3/8" to 2"	Underground mining hose. Fire resistant and anti-static.	Black flexible FRAS PVC tube. High strength synthetic braid reinforcement. Yellow flexible PVC cover with two black FRAS strips.	+50°C (122°F). 21 bar/305 psi
82	PFAWT DELIVERY TWIN		-08 & -16 1/2" & 1"	Underground mining hose. Fire resistant and anti static. RYCO PFAWT is also ideal for rockbolting.	Black flexible FRAS PVC tube. High strength synthetic braid reinforcement. Yellow flexible PVC cover with two black FRAS strips.	+50°C (122°F). 21 bar/305 psi
83 84 85	PAW DELIVERY		-04 to -32 1/4" to 2"	Suitable for general purpose supply. Also suitable for the conveyance of liquids, gases and many chemicals.	Black PVC tube. Textile braid reinforcement. Yellow/blue PVC cover.	+50°C (122°F) 20 bar/290 psi up to -08.
86	PCW DELIVERY		-08 to -24 1/2" to 1.1/2"	Commercial parks, gardens and turf watering applications. Ideal for cattle yards and dairies.	Black PVC tube. Textile braid reinforcement. White PVC cover.	+55°C (+131°F). 10 bar/145 psi.
87	MDW LAYFLAT/DELIVERY		-24 to -128 1.1/2" to 8"	High Pressure Heavy Duty mine dewatering.	Polyurethane tube. Polyester woven jacket reinforcement. Polyurethane cover.	+70°C (178°F). 22 bar/320 psi at -32.
87	MDWH LAYFLAT/DELIVERY		-32 to -128 2" to 8"	High Pressure Heavy Duty mine dewatering.	Polyurethane tube. Polyester woven jacket reinforcement. Polyurethane cover.	+70°C (178°F). 27 bar/390 psi up to -48.
88	PLB LAYFLAT		-16 to -256 1" to 16"	Suitable for irrigation or drainage, washdown, water supply for construction sites or general dewatering.	PVC compound tube. High strength yarn reinforcement. Blue PVC compound cover	+55°C (+131°F). 7 bar/100 psi up to -20.
89	PLR LAYFLAT		-24 to -128 1.1/2" to 8"	Dewatering pits, building sites, dams, mines and quarries. Also suitable for pumping more abrasive slurries.	PVC compound tube. High strength yarn reinforcement. Red PVC compound cover.	+55°C (+131°F). 10 bar/152 psi up to -40.
90	PFR DELIVERY		-12 to -16 3/4" to 1"	Stationary or mobile hose reels in fire control systems located in commercial or public buildings.	Smooth black PVC tube. Textile reinforcement. Ribbed black PVC cover.	+50°C (+122°F). 10 bar/145 psi.
91	PGPW DELIVERY		-08 to -16 1/2" to 1"	General domestic and commercial use.	Smooth clear flexible PVC tube. Textile braid reinforcement. Smooth clear flexible PVC cover.	+55°C (+131°F). 8 bar/120 psi.
92	PSG SUCTION/DELIVERY		-16 to -96 1" to 6"	For the transfer of water.	PVC tube. Rigid PVC spiral reinforcement.	+60°C (+140°F). 7 bar/100 psi up to -20.
PVC - CHEMICAL/ACID						
93	PAS DELIVERY		-06 to -16 1/4" to 1"	Transferring chemicals in general agricultural and horticultural applications.	PVC Nitrile tube. Textile braid reinforcement. PVC Nitrile cover.	+50°C (+122°F). 21 bar/297 psi.

HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	MAXIMUM TEMPERATURE	MAXIMUM WORKING PRESSURE
PVC - FOOD/BEVERAGE						
94	PSR SUCTION/DELIVERY		-16 to -96 1" to 6"	Heavy Duty flexible food quality PVC suction/discharge hose reinforced with a rigid spiral.	Clear flexible PVC tube. Rigid red PVC spiral reinforcement. Clear flexible PVC cover.	+60°C (+140°F). 7 bar/100 psi up to -20.
95	PSP SUCTION/DELIVERY		-16 to -48 1" to 3"	Any liquid or semi liquid that requires a food grade hose. Included are wineries, milk processing plants or tankers.	Flexible clear PVC tube. Rigid Clear PVC spiral and textile braid reinforcement. Flexible clear PVC cover.	+60°C (+140°F) 12 bar/175 psi up to -24.
96	PSW SUCTION/DELIVERY		-16 to -64 1" to 4"	The tanker delivery of milk, other dairy products, drinking water, wine and other food products.	Clear flexible PVC tube. Rigid white PVC spiral reinforcement. Clear flexible PVC cover.	+60°C (+140°F). 7 bar/100 psi up to -20.
PVC - FUEL/OIL						
97	PSB SUCTION/DELIVERY		-12 to -48 3/4" to 3"	Waste collection on environmental waste trucks, pumping grease pits, sewage collection, pumping of fuels, lubricants and most chemicals.	Blue flexible PVC tube. Rigid PVC spiral reinforcement. Blue flexible PVC cover.	+60°C (+140°F). 10 bar/145 psi at -12.
98	PDP PRESSURE		-12 to -16 3/4" to 1"	Dispensing fuels from overhead tanks and drums.	Black PVC Nitrile tube. Textile braid with twin anti-static copper wires reinforcement. Black PVC cover.	+50°C (+122°F). 10 bar/145 psi.
99	PPA PRESSURE		-16 to -24 1" to 1.1/2"	Dispensing oil, and home heating fuel. Ideal as a tanker delivery hose.	Black PVC Nitrile tube. Textile braid with twin anti-static copper wires reinforcement. Black PVC cover.	+50°C (+122°F). 13 bar/193 psi at -16.
PVC - MATERIAL HANDLING						
100	PSAR SUCTION/DELIVERY		-20 to -128 1.1/4" to 8"	Pumping industrial/commercial vacuum cleaning.	PVC Nitrile blend tube. Rigid PVC spiral reinforcement. Green corrugated spiral cover.	+60°C (+140°F). 3 bar/43 psi.
101	USAR SUCTION/DELIVERY		-20 to -128 1.1/4" to 8"	Equipment on vacuum diggers and street sweepers and any particulate collection in extreme environments.	Urethane tube. Rigid PVC spiral reinforcement. Urethane cover.	+60°C (+140°F). 3 bar/43 psi.
102	PCAS SUCTION/DELIVERY		-16 to -48 1" to 3"	Airseeder suitable for primary, secondary and tertiary lines.	Clear flexible PVC tube. Black rigid PVC spiral reinforcement. Clear flexible PVC cover.	+60°C (+140°F). 8 bar/116 psi at -16.
103	TMH SUCTION/DELIVERY		-20 to -160 1.1/4" to 10"	Metals, plastic pellets, fertilizers, rock salts and slurries.	Thermoplastic blend of polyurethane and PVC tube (static dissipating/static conductive). PVC helix reinforcement. Thermoplastic blend of nitrile, polyurethane and PVC cover (non-conductive).	+70°C (+158°F). 3 bar/45 psi at -20.

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

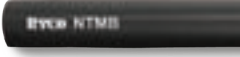



HOSE

PICTORIAL INDEX


HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	MAXIMUM TEMPERATURE	MAXIMUM WORKING PRESSURE
PVC - MULTI PURPOSE						
104	PSMF SUCTION/DELIVERY		-28 to -128 1.3/4" to 8"	Environmental waste trucks, pumping the contents of grease pits, sewage collection, pumping of fuels, lubricants and most chemicals.	PVC Tube. Rigid PVC spiral reinforcement. PVC cover. Yellow corrugated.	+60°C (+140°F). 3 bar/43 psi.
105	PCM PRESSURE		-04 to -32 1/4" to 2"	Suitable for air, water, food and beverage liquids and semi liquids and petroleum based products.	Clear multi-pupose PVC tube. Textile braid reinforcement with red fuel tracer. Clear flexible PVC cover.	+50°C (+122°F). 14 bar/200 psi up to -16.
106	PSS SUCTION		-12 to -64 3/4" to 4"	Secondary and tertiary lines on air seeder machines. Suitable for water conveyance, ventilation duct on business machines.	Flexible Medium Duty PVC spiral extrusion profile tube.	+30°C (+86°F). —
106	PSSG SUCTION		-08 to -10 1/2" to 5/8"	Secondary and tertiary lines on air seeder machines. Suitable for water conveyance, ventilation duct on business machines.	Flexible Medium Duty PVC spiral extrusion profile tube.	+30°C (+86°F). —
107	PSSH SUCTION		-20 to -128 1.1/4" to 8"	Collection of dust, sawdust, fumes. Transport of small particulates.	Flexible PVC Heavy Duty spiral extrusion profile tube.	+30°C (+86°F). —
108	PABD PRESSURE		-05 to -06 5/16" to 3/8"	Diving, air breathing applications.	Food grade white PVC tube. Textile braid reinforcement. Bright yellow flexible PVC cover.	+50°C (+122°F) 25 bar/365 psi at -06.
PVC - SPECIALITY						
109	PHW PRESSURE		-08 to -12 1/2" to 3/4"	All food preparation and retail areas, where milk, fats and other food products are present.	White flexible PVC tube. Textile braid reinforcement. White smooth thermoplastic cover.	+85°C (+185°F). 20 bar/290 psi at -08.
110	ANFF TUBING FLEXIBLE		-12 to -16 3/4" to 1"	For the transfer of ANFO explosives.	Flexible thermoplastic extruded tube.	+40°C (+104°F) —
110	ANFR TUBING RIGID		-12 to -16 3/4" to 1"	For the transfer of ANFO explosives.	Rigid thermoplastic extruded tube.	+40°C (+104°F) —
111	NSS TUBING		-04 to -08 1/4" to 1/2"	Pneumatic and hydraulic control systems, fuel tubing, air and gas tubing. Also ideal for handling weed killing solutions.	High quality nylon extruded and formed tubing.	+60°C (140°F) 12 bar/174 psi.
112	NTIB TUBING-IMPERIAL		-02 to -08 1/8" to 1/2"	Pneumatic and hydraulic control systems, fuel tubing, air and gas tubing. Also ideal for handling weed killing solutions.	High quality nylon black, thermoplastic extruded tube.	+90°C (194°F) 17 bar/250 psi.
112	NTIN TUBING-IMPERIAL		-02 to -08 1/8" to 1/2"	Pneumatic and hydraulic control systems, fuel tubing, air and gas tubing. Also ideal for handling weed killing solutions.	Natural (translucent), high quality nylon extruded tube.	+90°C (194°F) 17 bar/250 psi.

HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	MAXIMUM TEMPERATURE	MAXIMUM WORKING PRESSURE
-------------	--	-----------------	-------------	--------------	---------------------	--------------------------


PVC - SPECIALITY Cont

113	NTMB		4mm to 12mm	Pneumatic and hydraulic control systems, fuel tubing, air and gas tubing. Also ideal for handling weed killing solutions.	High quality nylon black, thermoplastic extruded tube.	+90°C (194°F).	20 bar/290 psi.
	TUBING-METRIC						
113	NTMN		4mm to 12mm	Pneumatic and hydraulic control systems, fuel tubing, air and gas tubing. Also ideal for handling weed killing solutions.	Natural (translucent), high quality nylon extruded tube.	+90°C (194°F).	20 bar/290 psi.
	TUBING-METRIC						
114	PCVTM		-02 to -32 1/8" to 2"	Suitable for food and beverage fluids, medical drainage and Low Pressure general delivery lines.	Clear extruded vinyl tube.	+50°C (+122°F).	9 bar/125 psi at -02.
	TUBING						
114	PCVTMH		-06 3/8"	Suitable for food and beverage fluids, medical drainage and Low Pressure general delivery lines.	Clear extruded vinyl tube. Heavy wall.	+50°C (+122°F).	6 bar/90 psi.
	TUBING						

TEFLON® - SPECIALITY

115	RTH1		-04 to -16 1/4" to 1"	High Pressure hydraulic oil lines. Fluids at extremes of pressure and temperature.	PTFE tube (TEFLON®). One braid of high tensile Grade 304 stainless steel wire reinforcement. <small>*DuPont Reg. TM</small>	+260°C (+500°F). (Varies according to application).	170 bar/2450 psi at -14. SAE100R14 MWP 103 bar/1500 psi up to -16.
	THERMOPLASTIC						

FLEXIBLE DUCTING - SPECIALITY

116	DPV		-32 to -192 2" to 12"	Grain handling, agricultural equipment, chemical processing, construction and mining, woodworking and timber etc.	An extruded PVC tube. Spiral helix steel wire reinforcement. An extruded PVC cover.	+50°C (+122°F).	—
	PVC DUCTING						
117	DTP		-24 to -192 1.1/2" to 12"	General purpose ducting with excellent temperature, UV, chemical and abrasion resistance.	Thermoplastic rubber tube. Spiral helix steel wire reinforcement. Thermoplastic rubber cover.	+120°C (+248°F).	—
	TPR DUCTING						
118	DPUA		-24 to -160 1.1/2" to 10"	Suitable for heavier duty use in applications relevant for DTP above.	HD polyurethane anti-static tube. Spiral helix copper wire reinforcement. HD polyurethane anti-static cover.	+90°C (+194°F).	—
	PU A/STATIC DUCTING						

RYCO'S INDUSTRIAL RUBBER AND PVC HOSE - CUT LENGTH POLICY.

Please note that RYCO has a Cut Length Policy in place, which includes both "Cutting Charges" and/or a "Minimum Length Criteria" for all of our Industrial Hoses and Tubing. Please refer to our Industrial Price List, or contact our Customer Service Department for the specific details.

If specific cut lengths are required, these "charges and criteria" must be clearly specified and accepted when placing orders.

Goods manufactured to Order/Cut or Modified to meet the customer's specifications "cannot be returned for credit or exchange".

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

HOSE

RUBBER - AIR

AJY

AIR

RYCO AIR JACKHAMMER



RECOMMENDED FOR:

AJY AIR JACKHAMMER YELLOW is an economical pneumatic air and water hose ideally suited for construction, industrial, and agricultural applications.

RYCO JACKHAMMER is an extruded hose that has a smooth yellow non-marking cover. It can be easily seen on all work sites and has good weather and abrasion resistant characteristics. RYCO AJY is a quality designed, durable and long lasting service hose with the safety levels demanded in most Heavy Duty or Medium Duty applications.

Ideal for Heavy Duty Air Compressor use, and most pneumatic equipment applications: portable compressor equipment, jackhammers, breakers, hammers, stampers etc.

TUBE:

Black, smooth synthetic rubber with oil mist resistance. (Blended SBR).

REINFORCEMENT:

High tensile synthetic yarn.

COVER:

Yellow smooth extruded synthetic rubber with good ozone and abrasion resistance (Blended SBR).

FEATURES:

Oil mist resistant tube and abrasion resistant cover.

TEMPERATURE RANGE:

From -30°C to +80°C (-22°F to +176°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20, 30 and 100 metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:



AJY - AIR/WATER RYCO AIR JACKHAMMER														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
AJY8	12	-08	12,7	1/2	23	0.90	20	300	60	900	107	4	0,44	0.29
AJY12	19	-12	19,1	3/4	30	1.18	20	300	60	900	155	6	0,64	0.43
AJY16	25	-16	25,4	1	37	1.46	20	300	60	900	203	8	0,88	0.59

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

ASY

AIR

RYCO STEEL AIR


RECOMMENDED FOR:

Heavy Duty, High Pressure compressed air; widely used in mining and quarries.

TUBE:

Black SBR/NBR - oil mist resistant.

REINFORCEMENT:

High tensile steel cords.

COVER:

Yellow SBR - abrasion and ozone resistant, pin pricked.

FEATURES:

Heavy Duty air hose for rugged applications where a 4:1 safety factor hose is required.

TEMPERATURE RANGE:

From -30°C to +85°C (-22°F to +185°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:


<1000 PSI
HOSE TAIL
HIGH
PRESSURE

CLAW TYPE
COUPLINGS
WITH SAFETY
COLLARS

HEAVY DUTY
BOLT CLAMPS
W/ SAFETY
CLAWS

ASY RYCO STEEL AIR														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
ASY16	25	-16	25,4	1	36	1.42	40	600	160	2400	305	12	0,88	0.59
ASY20	31	-20	31,8	1.1/4	45	1.77	40	600	160	2400	384	15	1,14	0.76
ASY24	38	-24	38,1	1.1/2	56	2.20	40	600	160	2400	456	18	1,60	1.07
ASY32	51	-32	50,8	2	67	2.64	40	600	160	2400	612	24	2,45	1.64
ASY48	76	-48	76,2	3	95	3.74	30	450	120	1800	915	36	4,74	3.18

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

RUBBER - AIR

ATB

AIR

RYCO AIR TEXTILE



RECOMMENDED FOR:

Delivery of air and water.

TUBE:

Black SBR/NBR.

REINFORCEMENT:

High tensile synthetic yarn.

COVER:

Black EPDM/SBR - abrasion and ozone resistant.

FEATURES:

General purpose low cost air hose where oil resistance of the tube **is not required**.

TEMPERATURE RANGE:

From -30°C to +80°C (-22°F to +176°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

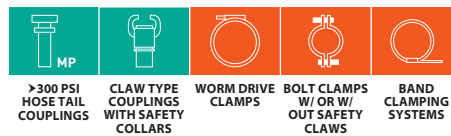
COIL LENGTHS:

20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:



ATB RYCO AIR TEXTILE														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
ATB4	6	-04	6,4	1/4	14	0.55	20	300	60	900	51	2.0	0,19	0.13
ATB6	10	-06	9,5	3/8	20	0.78	20	300	60	900	83	3.4	0,31	0.21
ATB8	12	-08	12,7	1/2	23	0.90	20	300	60	900	107	4.2	0,44	0.29
ATB12	19	-12	19,1	3/4	30	1.18	20	300	60	900	155	6.1	0,64	0.43
ATB16	25	-16	25,4	1	37	1.46	20	300	60	900	203	8.0	0,88	0.59

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.



ATO

AIR

RYCO COMPRESSED AIR
OIL MIST RESISTANT

RECOMMENDED FOR:

A premium Heavy Duty mandrel-built hose for compressed air in industrial, infrastructure or earthworks construction, quarry and mining applications. The inner tube is a smooth oil mist resistant compound and is reinforced with high strength synthetic yarn and has a very versatile cover to ensure good resistance to ozone, weather and aging effects.

TUBE:

Black, smooth synthetic rubber with oil mist resistance. (Blended SBR).

REINFORCEMENT:

High tensile synthetic yarn.

COVER:

Black wrapped cover with good ozone and abrasion resistance (Blended EPDM).

FEATURES:

Heavy Duty oil mist resistant tube.
Abrasion resistant cover.

TEMPERATURE RANGE:

From -30°C to +80°C (-22°F to +176°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

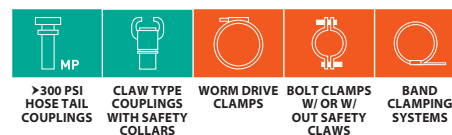
COIL LENGTHS:

20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:



ATO - AIR RYCO COMPRESSED AIR														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
ATO20	31	-20	31,8	1.1/4	46	1.81	20	300	60	900	295	11.6	1,00	0.67
ATO24	38	-24	38,1	1.1/2	52	2.05	20	300	60	900	350	13.8	1,40	0.94
ATO32	51	-32	50,8	2	66	2.60	20	300	60	900	495	19.5	1,78	1.19
ATO40	63	-40	63,5	2.1/2	79	3.11	20	300	60	900	605	23.8	2,51	1.69
ATO48	76	-48	76,2	3	93	3.66	20	300	60	900	732	28.8	3,03	2.04
ATO64	102	-64	101,6	4	120	4.72	20	300	60	900	1016	40.0	4,15	2.80

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

RUBBER HOSE

RUBBER - AIR/WATER

MS1000

AIR/WATER

RYCO MINESPRAY
YELLOW MSHA



RECOMMENDED FOR:

MS1000 MINESPRAY is a specifically designed water spray hose suited for dust control and washdown applications in mining, industrial, and processing operations. MS1000 MINESPRAY is especially suited for use in underground coal mines where MSHA Flame Resistance properties are required.

MS1000 MINESPRAY has a high visual yellow and non-marking perforated cover with oil, weather and abrasive resistant characteristics. The result is a quality designed, durable, long lasting service hose with the safety levels demanded in Heavy Duty or Medium Duty applications.

MS1000 MINESPRAY is ideal for use on High Pressure continuous mining equipment in both longwall coal or hardrock mining, or as a general hot water service hose.

STANDARDS MET OR EXCEEDED:

MSHA Flame Resistance.

TUBE:

Black, oil resistant synthetic rubber.

REINFORCEMENT:

One braid of high tensile steel wire.

COVER:

Yellow, oil resistant and abrasion resistant synthetic rubber. No skiving required with T2000 Series BITELOK Crimp Couplings.

MSHA - FLAME RESISTANCE:

Complies with Flame Resistant requirements of Australian Standard AS 2660 and Method of Test AS 1180.10B. Meets Flame Resistant Designation "U.S. MSHA" of the US Department of Labor, Mine Safety and Health Administration.

TEMPERATURE RANGE:

From -40°C to +100°C (-40°F to +212°F).
For emulsions etc, contact RYCO.

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).


COIL LENGTHS:

60 and 100 metre.

TOLERANCES:

RYCO specification.

COUPLINGS:

 **BITELOK NON-SKIVE ONE-PIECE CRIMP T2000 Series** (sizes -08 to -32)

For coupling specifications and assembly instructions see the RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.



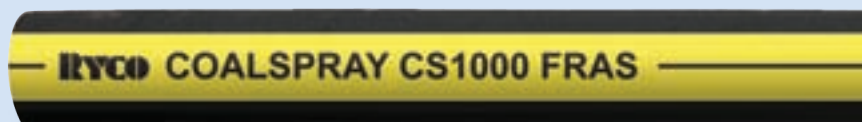
CROCBITE

MS1000 - MINESPRAY HOSE															
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES T2000 ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
MS1008	12	-08	12,7	1/2	18,5	0.73	70	1000	280	4000	90	3.6	0,29	0.19	T2000
MS1010	16	-10	15,9	5/8	22,1	0.87	70	1000	280	4000	100	3.9	0,35	0.24	T2000
MS1012	19	-12	19,1	3/4	25,6	1.01	70	1000	280	4000	120	4.7	0,40	0.27	T2000
MS1016	25	-16	25,4	1	33,7	1.33	70	1000	280	4000	150	5.9	0,62	0.42	T2000
MS1020	31	-20	31,8	1.1/4	41,1	1.62	70	1000	280	4000	210	8.3	0,75	0.50	T2000
MS1024	38	-24	38,1	1.1/2	47,4	1.87	70	1000	280	4000	250	9.9	1,00	0.67	T2000
MS1032	51	-32	50,8	2	60,6	2.39	70	1000	280	4000	300	11.8	1,42	0.95	T2000

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

CS1000

AIR/WATER

 RYCO COALSPRAY
BLACK/YELLOW FRAS


INTRODUCTION

RECOMMENDED FOR:

CS1000 COALSPRAY is a specifically designed water spray hose suited for dust control and washdown applications in mining, industrial, and processing operations. CS1000 COALSPRAY is especially suited for use in underground coal mines where FRAS Flame Resistance and Electrical Resistance properties are required.

CS1000 COALSPRAY has a non-marking perforated black cover with a high visual yellow stripe that has oil, weather and abrasive resistant characteristics. The result is a quality designed, durable, long lasting service hose with the safety levels demanded in Heavy Duty or Medium Duty applications.

CS1000 COALSPRAY is ideal for use on High Pressure continuous mining equipment in both longwall coal or hardrock mining, or as a general hot water service hose.

STANDARDS MET OR EXCEEDED:

FRAS - AS 2660 Flame Resistance and Electrical Resistance. MSHA Flame Resistance.

TUBE:

Black, oil resistant synthetic rubber.

REINFORCEMENT:

One braid of high tensile steel wire.

COVER:

Black, oil resistant and abrasion resistant synthetic rubber. No skiving required with T2000 Series BITELOK Crimp Couplings.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:

Complies with Flame Resistant and Electrical Resistance (Anti-Static) requirements of Australian Standard AS 2660 and Methods of Test AS 1180.10B and 13A. Meets Flame Resistant Designation "U.S. MSHA" of the US Department of Labor, Mine Safety and Health Administration.

TEMPERATURE RANGE:

From -40°C to +100°C (-40°F to +212°F).
For emulsions etc, contact RYCO.

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

60 and 100 metre.

TOLERANCES:

RYCO specification.

COUPLINGS:



BITELOK NON-SKIVE ONE-PIECE CRIMP T2000 Series (sizes -08 to -32)

ONE PIECE CRIMP T2000



CROCBITE

For coupling specifications and assembly instructions see the RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

CS1000 - COALSPRAY HOSE															
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES T2000 ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
CS1008	12	-08	12,7	1/2	18,5	0.73	70	1000	280	4000	90	3.6	0,29	0.19	T2000
CS1010	16	-10	15,9	5/8	22,1	0.87	70	1000	280	4000	100	3.9	0,35	0.24	T2000
CS1012	19	-12	19,1	3/4	25,6	1.01	70	1000	280	4000	120	4.7	0,40	0.27	T2000
CS1016	25	-16	25,4	1	33,7	1.33	70	1000	280	4000	150	5.9	0,62	0.42	T2000
CS1020	31	-20	31,8	1.1/4	41,1	1.62	70	1000	280	4000	210	8.3	0,75	0.50	T2000
CS1024	38	-24	38,1	1.1/2	47,4	1.87	70	1000	280	4000	250	9.9	1,00	0.67	T2000
CS1032	51	-32	50,8	2	60,6	2.39	70	1000	280	4000	300	11.8	1,42	0.95	T2000

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

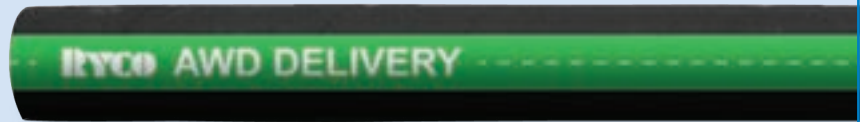
HOSE

RUBBER - AIR/WATER

AWD

AIR/WATER

RYCO AIR / WATER
DELIVERY HOSE



RECOMMENDED FOR:

A very versatile air or water delivery hose to maximum pressures of 150 psi and is suited to be used in various applications including industrial, earthwork construction, mining, agriculture etc; wherever air or water needs to be transferred in external or internal applications.

It has a smooth general purpose tube, high strength yarn reinforcement and a long lasting cover with good ozone and abrasion resistance capabilities, for harsh environmental conditions.

NOTE: This is not a hot air hose. **The transfer of hot air above 60°C is not recommended for this hose** and a specific hot air hose with a temperature of +100°C should be used. Hot air is very damaging to many rubbers.

TUBE:

Black, smooth synthetic rubber. (Blended NR/SBR).

REINFORCEMENT:

High tensile synthetic yarn.

COVER:

Black wrapped cover with good ozone and abrasion resistance (Blended SBR/EPDM, wrapped impression finish).

FEATURES:

Heavy Duty tube and good abrasion resistant cover.

TEMPERATURE RANGE:

From -30°C to +80°C (-22°F to +176°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

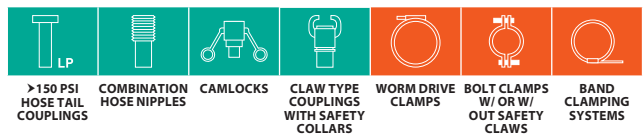
COIL LENGTHS:

20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:



AWD - AIR/WATER AIR OR WATER DELIVERY HOSE														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
AWD12	19	-12	19,1	3/4	29	1.14	10	150	30	450	228	9.0	0,65	0.44
AWD16	25	-16	25,4	1	35	1.38	10	150	30	450	300	11.8	0,97	0.65
AWD20	31	-20	31,8	1.1/4	42	1.65	10	150	30	450	384	15.1	1,20	0.80
AWD24	38	-24	38,1	1.1/2	48	1.90	10	150	30	450	456	17.9	1,37	0.92
AWD32	51	-32	50,8	2	63	2.48	10	150	30	450	612	24.1	1,85	1.24
AWD 40	63	-40	63,5	2.1/2	79	3.11	10	150	30	450	756	29.7	2,25	1.51
AWD48	76	-48	76,2	3	92	3.62	10	150	30	450	912	35.9	3,60	2.42
AWD64	102	-64	101,6	4	116	4.57	10	150	30	450	1224	48.2	4,75	3.19

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

RST

AIR/WATER
RYCO STREAM
FRAS
AIR/WATER DELIVERY



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

RYCO RST is a versatile, robust Heavy Duty FRAS air or water and stone or rock dust delivery hose, designed to suit a broad range of applications specially for use in underground coal mines and any other critical or severe applications, where a conductive or anti-static hose is required.

RST has been especially designed as a softwall hose with a very good abrasion and weather resistant cover and a smooth non-porous tube with the level of oil mist resistance to ensure it is one of the most durable and long lasting hoses that the mining industry requires to minimise any unnecessary production down-times.

STANDARDS MET OR EXCEEDED:

FRAS - AS 2660 (Hose and Hose Assemblies air/water - for underground coal mines).

TUBE:

NBR/SBR blend, anti-static compound.

REINFORCEMENT:

4 Plies of high tensile synthetic cord.

COVER:

NBR/EPDM blend, anti-static compound, abrasion, ozone and fire resistant, black smooth (wrapped impression finish).

FEATURES:

FRAS, AS 2660.

TEMPERATURE RANGE:

From -30°C to +80°C (-22°F to +176°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

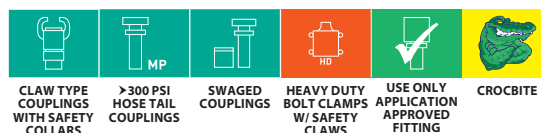
COIL LENGTHS:

20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:



CLAW TYPE
COUPLINGS
WITH SAFETY
COLLARS

>300 PSI
HOSE TAIL
COUPLINGS

SWAGED
COUPLINGS

HEAVY DUTY
BOLT CLAMPS
W/ SAFETY
CLAWS

USE ONLY
APPLICATION
APPROVED
FITTING

CROCBITE

RST - AIR/WATER STREAM FRAS AIR/WATER DELIVERY														
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
RST8	12	-08	12,7	1/2	23	0.90	20	300	80	1200	192	7.5	0,76	0.51
RST12	19	-12	19,1	3/4	32	1.27	20	300	80	1200	228	9.0	1,05	0.70
RST16	25	-16	25,4	1	38	1.50	20	300	80	1200	228	9.0	1,20	0.80
RST20	31	-20	31,8	1.1/4	46	1.81	20	300	80	1200	300	11.8	1,40	0.94
RST24	38	-24	38,1	1.1/2	54	2.13	20	300	80	1200	300	11.8	1,50	1.05
RST32	51	-32	50,8	2	67	2.64	20	300	80	1200	355	14.0	1,93	1.29
RST40	63	-40	63,5	2.1/2	80	3.15	20	300	80	1200	430	16.9	2,39	1.60
RST48	76	-48	76,2	3	93	3.66	20	300	80	1200	510	20.1	2,87	1.93
RST64	102	-64	101,6	4	120	4.72	20	300	80	1200	912	35.9	5,45	3.66

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

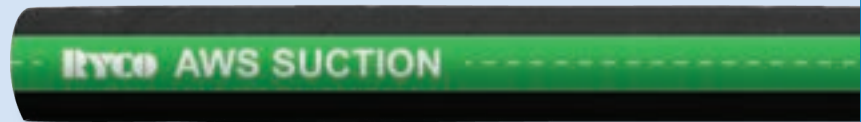
HOSE

RUBBER - AIR/WATER

AWS

AIR/WATER

RYCO AIR/WATER
SUCTION AND DELIVERY



RECOMMENDED FOR:

For use in demanding applications which require water or very light slurries to be pumped or gravity transferred. It has a smooth general purpose tube, with two layers of high strength cord reinforcement and a quality steel wire helix embedded into the hose wall resulting in excellent flexibility. The hose cover is especially blended to ensure the best combination of ozone and abrasion resistance capabilities necessary for most harsh environmental conditions.

NOTE: This is not a hot air hose. **The transfer of hot air above 60°C is not recommended for this hose** and a specific hot air hose with a temperature of +100°C should be used. Hot air is very damaging to many rubbers.

TUBE:

Black, smooth synthetic rubber. (Blended NR/SBR).

REINFORCEMENT:

High tensile synthetic cord and a quality steel helix wire.

COVER:

Black wrapped cover with good ozone and abrasion resistance (Blended SBR/EPDM).

FEATURES:

Heavy Duty tube and good abrasion resistant cover.

TEMPERATURE RANGE:

From -30°C to + 80°C (-22°F to +176°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:

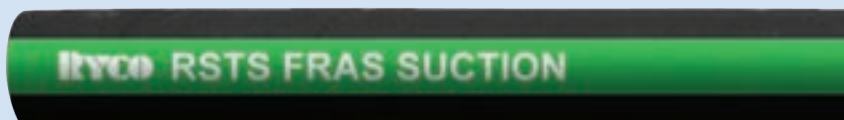


AWS - AIR/WATER RYCO WATER SUCTION AND DELIVERY																
PART NO	HOSE SIZE		NOMINAL HOSE ID	NOMINAL HOSE OD			MAXIMUM WORKING PRESSURE	MINIMUM BURST PRESSURE			MINIMUM BEND RADIUS	VACUUM RATING		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
AWS16	25	-16	25,4	1	36	1.42	15	225	45	675	133	5.2	880	34.7	0,76	0.51
AWS20	32	-20	31,8	1.1/4	43	1.69	15	225	45	675	172	6.8	880	34.7	0,91	0.61
AWS24	38	-24	38,1	1.1/2	49	1.93	15	225	45	675	208	8.2	880	34.7	1,06	0.71
AWS32	51	-32	50,8	2	63	2.48	15	225	45	675	286	11.3	880	34.7	1,39	0.93
AWS40	63	-40	63,5	2.1/2	77	3.03	15	225	45	675	361	14.2	880	34.7	2,00	1.34
AWS48	76	-48	76,2	3	90	3.54	15	225	45	675	438	17.2	880	34.7	2,63	1.77
AWS64	102	64	101,6	4	119	4.68	15	225	45	675	590	23.2	880	34.7	3,76	2.53

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

RSTS

AIR/WATER

 RYCO STREAM
FRAS
SUCTION AND DELIVERY


INTRODUCTION

RECOMMENDED FOR:

RYCO RSTS is a versatile, robust Heavy Duty FRAS water suction or air, stone or rock dust transfer hose. RYCO RSTS is designed to suit a broad range of applications especially for use in underground coal mines and any other critical or severe applications, where a conductive or an anti-static hose is required.

RYCO RSTS has been especially designed as a Hardwall Hose with a very good abrasion and weather resistant cover and a smooth non-porous tube with the level of oil mist resistance to ensure it is one of the most durable and long lasting hoses that the mining industry requires to minimise any unnecessary production downtimes.

RYCO RSTS has been designed with a spiral wire helix embedded between the wall of the hose to minimise kinking but maximise the flexibility which allows the hose to maintain its shape and while ensuring the flow of product is not affected.

STANDARDS MET OR EXCEEDED:

FRAS - AS 2660 - 1991 (Hose and Hose Assemblies air/water - for underground coal mines).

TUBE:

NBR/SBR BLEND, Anti-static Compound.

REINFORCEMENT:

4 Plies Spiral Wire Helix, embedded into the wall of the hose.

COVER:

NBR/EPDM blend, anti-static compound, abrasion, ozone and fire resistant, black smooth (wrapped finish).

FEATURES:

FRAS, AS 2660 - 1991

TEMPERATURE RANGE:

From -20°C to +70°C (-4°F to +158°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

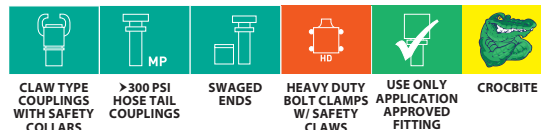
COIL LENGTHS:

20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:


 CLAW TYPE
COUPLINGS
WITH SAFETY
COLLARS

 >300 PSI
HOSE TAIL
COUPLINGS

 SWAGED
ENDS

 HEAVY DUTY
BOLT CLAMPS
W/ SAFETY
CLAWS

 USE ONLY
APPLICATION
APPROVED
FITTING

CROCBITE

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RSTS - AIR/WATER STREAM FRAS SUCTION AND DELIVERY																
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
RSTS24	38	-24	38,1	1.1/2	48	1.88	10	150	40	600	285	11.2	880	34.7	1,06	0.71
RSTS32	51	-32	50,8	2	67	2.64	10	150	40	600	355	14.0	880	34.7	1,63	1.09
RSTS40	63	-40	63,5	2.1/2	80	3.15	10	150	40	600	430	16.9	880	34.7	2,36	1.58
RSTS48	76	-48	76,2	3	93	3.66	10	150	40	600	510	20.1	880	34.7	2,93	1.96
RSTS64	102	-64	101,6	4	122	4.80	10	150	40	600	545	21.5	880	34.7	3,46	2.32

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

RUBBER - AIR/WATER

MEH

AIR/WATER

RYCO MARINE
WET EXHAUST
SUCTION AND DELIVERY



RECOMMENDED FOR:

Light weight, flexible, hardwall hose for water cooled diesel engine exhaust gas systems installed on a small craft less than 24m in length or pleasure yachts.

TUBE:

Black, smooth, synthetic rubber.

REINFORCEMENT:

High strength synthetic cord, helix wire.

COVER:

Black, corrugated (wrapped finish), synthetic rubber, weathering and abrasion resistant.

FEATURES:

Lightweight, 2 or 3 ply textile reinforced incorporating a flexible spiral wire helix construction.

MEH is a Multi-Purpose hose because of its corrugated flexible construction and the extensive range of I.D. sizes to fit over both pipe and tubing.

TEMPERATURE RANGE:

From -30°C to +100°C (-22°F to +212°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

3/4" to 2.1/2" hose: 20 or 60 Metre.

2.3/4" to 4" hose: 20 or 40 Metre.

4.1/2" to 8" hose: 15 or 30 Metre.

10" to 12" hose: 6 or 12 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:

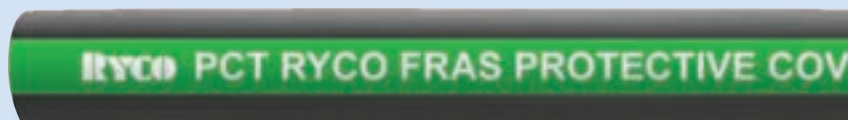


MEH RYCO WET EXHAUST SUCTION																
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
MEH12	19	-12	19,1	3/4	26	1.02	3	45	9	135	55	2.2	760	30	0,55	0.37
MEH16	25	-16	25,4	1	33,5	1.32	3	45	9	135	75	2.9	760	30	0,62	0.42
MEH20	31	-20	31,8	1.1/4	40	1.57	3	45	9	135	90	3.5	760	30	0,69	0.46
MEH22	35	-22	34,9	1.3/8	43	1.69	3	45	9	135	95	3.7	760	30	0,77	0.52
MEH24	38	-24	38,1	1.1/2	46	1.81	3	45	9	135	105	4.1	760	30	0,81	0.54
MEH28	44	-28	44,5	1.3/4	53	2.09	3	45	9	135	120	4.7	760	30	0,99	0.66
MEH32	51	-32	50,8	2	59	2.32	3	45	9	135	165	6.5	760	30	1,17	0.78
MEH36	57	-36	57,2	2.1/4	67	2.64	3	45	9	135	185	7.3	760	30	1,35	0.91
MEH40	63	-40	63,5	2.1/2	72	2.83	3	45	9	135	205	8.1	760	30	1,43	0.96
MEH44	70	-44	69,9	2.3/4	78	3.07	3	45	9	135	220	8.7	760	30	1,88	1.26
MEH48	76	-48	76,2	3	85	3.35	3	45	9	135	240	9.4	760	30	1,99	1.34
MEH56	89	-56	88,9	3.1/2	99	4.00	3	45	9	135	280	11.0	760	30	2,22	1.50
MEH64	102	-64	101,6	4	111	4.37	3	45	9	135	320	12.6	760	30	2,61	1.75
MEH72	114	-72	114,3	4.1/2	126	4.96	3	45	9	135	480	18.9	760	30	3,67	2.47
MEH80	127	-80	127,0	5	137	5.39	3	45	9	135	530	20.9	760	30	4,07	2.73
MEH96	152	-96	152,4	6	163	6.42	3	45	9	135	630	24.8	760	30	5,04	3.39
MEH128	203	-128	203,2	8	214	8.42	3	45	9	135	1045	41.1	760	30	8,74	5.87
MEH160	254	-160	254,0	10	264	10.39	3	45	9	135	1295	51.0	760	30	10,36	6.96
MEH192	305	-192	304,8	12	316	12.44	3	45	9	135	1550	61.0	760	30	14,77	9.92

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

PCT

AIR/WATER
RYCO FRAS PROTECTIVE COVER



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

PCT is manufactured with FRAS rubber compounds making it ideal for underground and surface mining hose protection. This is not a hose, but a protective cover for Hoses.

STANDARDS MET OR EXCEEDED:

AS 2660 (Non compliance to O.D. and Pressure).

TUBE:

Anti-static NBR/SBR blend.

REINFORCEMENT:

2 ply textile reinforcement.

COVER:

Black, smooth (wrapped finish), resistant rubber and weathering resistant. FRAS fire resistant and anti-static NBR/EPDM blend (wrapped impression finish).

FEATURES:

FRAS Lightweight protective and abrasion resistant cover protection tube, this is ideal to be placed over electrical cables or over general air and water hoses.

TEMPERATURE RANGE:

From -25°C to +75°C (-13°F to +167°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

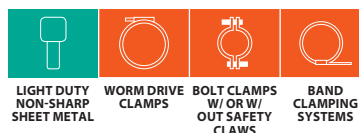
COIL LENGTHS:

20 or 40 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:



LIGHT DUTY
NON-SHARP
SHEET METAL

WORM DRIVE
CLAMPS

BOLT CLAMPS
W/ OR W/
OUT SAFETY
CLAWS

BAND
CLAMPING
SYSTEMS

PCT RYCO FRAS PROTECTIVE COVER										
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi
PCT8	12	-08	12,7	1/2	21	0.83	5	75	15	225
PCT12	19	-12	19,1	3/4	29	1.14	5	75	15	225
PCT16	25	-16	25,4	1	35	1.38	5	75	15	225
PCT20	31	-20	31,8	1.1/4	42	1.65	5	75	15	225
PCT24	38	-24	38,1	1.1/2	48	1.89	5	75	15	225
PCT28	44	-28	44,5	1.3/4	55	2.16	5	75	15	225
PCT32	51	-32	50,8	2	61	2.40	5	75	15	225

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

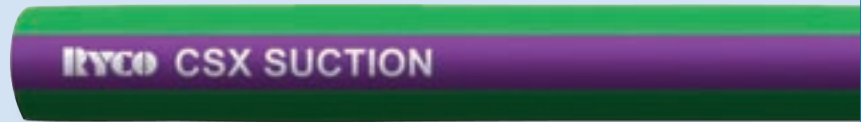
HOSE

RUBBER - CHEMICAL/ACID

CSX

CHEMICAL/ACID

RYCO XLPE CHEMICAL
SUCTION AND DELIVERY



RECOMMENDED FOR:

Suction and delivery of acid and chemicals; for range of acid and chemicals - see Chemical Compatibility Chart on page 254.

TUBE:

Transparent XPLE (Cross Linked Polyethylene).

REINFORCEMENT:

High tensile textile cords with embedded steel helical wire.

COVER:

Green EPDM - abrasion and ozone resistant (wrapped impression finish).

FEATURES:

A Heavy Duty chemical hose for most plant applications. Excellent chemical resistance due to its XLPE tube.

TEMPERATURE RANGE:

From -30°C to +90°C (-22°F to +194°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

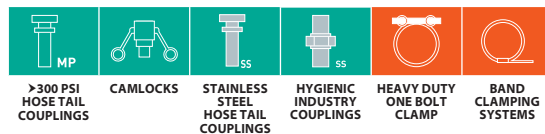
20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.



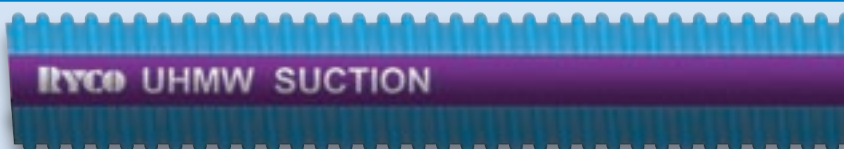
CSX RYCO XLPE CHEMICAL SUCTION																
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
CSX16	25	-16	25,4	1	39	1.53	16	235	48	705	150	5.9	880	34.7	0,99	0.66
CSX20	31	-20	31,8	1.1/4	47	1.85	16	235	48	705	175	6.9	880	34.7	1,33	0.89
CSX24	38	-24	38,1	1.1/2	53	2.09	16	235	48	705	225	8.8	880	34.7	1,56	1.05
CSX32	51	-32	50,8	2	67	2.64	16	235	48	705	275	10.8	880	34.7	1,92	1.29
CSX40	63	-40	63,5	2.1/2	81	3.20	16	235	48	705	300	11.8	880	34.7	2,79	1.87
CSX48	76	-48	76,2	3	95	3.74	16	235	48	705	380	15.0	880	34.7	3,26	2.19

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

UHMW

CHEMICAL/ACID

RYCO CHEMICAL
SUCTION AND DELIVERY



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

A quality chemical suction and delivery hose suitable for many different chemicals used in a very wide range of applications. The corrugated construction ensures a flexible multi-purpose hose also suitable for petroleum and oil products.

TUBE:

A smooth, ultra high molecular weight polyethylene impervious tube.

REINFORCEMENT:

High strength synthetic cords encasing a steel wire helix.

COVER:

A very robust blue, corrugated EPDM cover with excellent chemical and weathering resistance.

FEATURES:

A flexible multi-purpose chemical hose for Heavy Duty plant or transport applications.
Excellent chemical resistance due to its UHMW tube.

TEMPERATURE RANGE:

From -30°C to +65°C (-22°F to +149°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

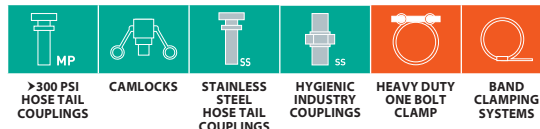
20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.



UHMW CHEMICAL SUCTION																
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
UHMW16	25	-16	25,4	1	37	1.46	10	150	40	600	110	4.3	880	34.7	0,97	0.64
UHMW20	31	-20	31,8	1.1/4	44	1.73	10	150	40	600	135	5.3	880	34.7	1,29	0.86
UHMW24	38	-24	38,1	1.1/2	51	2.01	10	150	40	600	155	6.1	880	34.7	1,51	1.02
UHMW32	51	-32	50,8	2	67	2.64	10	150	40	600	235	9.2	880	34.7	1,86	1.25
UHMW48	76	-48	76,2	3	79	3.11	10	150	40	600	335	13.2	880	34.7	2,70	1.81
UHMW64	102	-64	101,6	4	92	3.62	10	150	40	600	440	17.3	880	34.7	3,16	2.12

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

RUBBER - FOOD/BEVERAGE

RBD

FOOD/BEVERAGE
RYCO BREWERS DELIVERY



RECOMMENDED FOR:

Suitable for delivery of oil and non-oil based foods and beverages, including liquid food, edible oils, alcoholic beverages - wine/beer and non-alcoholic beverages such as milk, fruit juices, and soft drinks.

Developed to be used for in-plant production processing, tank-to-tank transfer or transport applications in the smallest of boutique breweries and wineries to the largest national brewers and wineries.

STANDARDS MET OR EXCEEDED:

Complies with F.D.A. Title 21, 177.2600.

TUBE:

Smooth non-porous white EPDM - FDA Approved Title 21, 177.2600.

REINFORCEMENT:

4 Plies of high tensile synthetic cord.

COVER:

EPDM/SBR Blend - Red cover is non-marking and has excellent abrasion, ozone and mild chemical resistance (wrapped impression finish).

FEATURES:

A top quality hose that is flexible, durable and lightweight. The hose construction and polymers, were developed to withstand the recommended cleaning procedures used in most Wine, Beverage and Food Processing Industries.

TEMPERATURE RANGE:

From -30°C to +100°C (-22°F to +212°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.

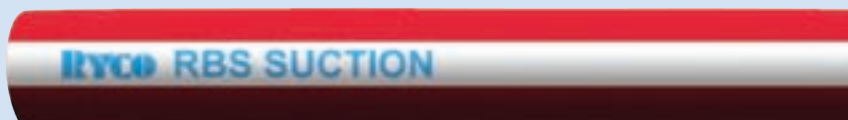


RBD - FOOD AND BEVERAGE BREWERS DELIVERY HOSE														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
RBD12	19	-12	19,1	3/4	32	1.27	12	175	36	525	115	4.5	0,60	0.40
RBD16	25	-16	25,4	1	38	1.50	12	175	36	525	145	5.7	0,88	0.59
RBD20	31	-20	31,8	1.1/4	44	1.73	12	175	36	525	180	7.1	1,20	0.80
RBD24	38	-24	38,1	1.1/2	50	1.97	12	175	36	525	210	8.3	1,38	0.93
RBD32	51	-32	50,8	2	66	2.60	12	175	36	525	320	12.7	2,14	1.44
RBD40	63	-40	63,5	2.1/2	78	3.07	10	150	30	450	340	13.4	2,44	1.64
RBD48	76	-48	76,2	3	92	3.62	10	150	30	450	420	16.5	2,96	1.99
RBD64	102	-64	101,6	4	119	4.68	10	150	30	450	605	23.8	4,33	2.91

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

RBS

FOOD/BEVERAGE
RYCO BREWERS
SUCTION AND DELIVERY



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Suitable for suction and delivery of oil and non-oil based foods and beverages, including liquid food, edible oils, alcoholic beverages - wine/beer and non-alcoholic beverages such as milk, fruit juices and soft drinks.

Developed to be used for in-plant production processing, tank-to-tank transfer or transport applications in the smallest of boutique breweries and wineries to the largest national brewers and wineries.

STANDARDS MET OR EXCEEDED:

Complies with F.D.A. Title 21, 177.2600.

TUBE:

Smooth non-porous white EPDM - FDA Approved Title 21, 177.2600.

REINFORCEMENT:

4 Plies of high tensile synthetic cord with helical steel wire.

COVER:

EPDM/NR Blend - Red cover is non-marking and has excellent abrasion, ozone and mild chemical resistance (wrapped impression finish).

FEATURES:

A top quality hose that is flexible, durable and lightweight. The hose construction and polymers were developed to withstand the recommended cleaning procedures used, in most wine, beverage and food processing industries.

TEMPERATURE RANGE:

From -25°C to +95°C (-13°F to +203°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.



RBS - FOOD AND BEVERAGE BREWERS SUCTION AND DELIVERY HOSE																
PART NO	HOSE SIZE	NOMINAL HOSE ID	NOMINAL HOSE OD	MAXIMUM WORKING PRESSURE	MINIMUM BURST PRESSURE	MINIMUM BEND RADIUS	VACUUM RATING	AVERAGE WEIGHT								
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
RBS16	25	-16	25,4	1	39	1.52	12	175	36	525	110	4.3	880	34.7	0,97	0.68
RBS20	31	-20	31,8	1.1/4	45	1.77	12	175	36	525	165	6.5	880	34.7	1,32	0.86
RBS24	38	-24	38,1	1.1/2	52	2.05	12	175	36	525	180	7.1	880	34.7	1,59	1.07
RBS32	51	-32	50,8	2	66	2.60	12	175	36	525	290	11.4	880	34.7	2,30	1.54
RBS40	63	-40	63,5	2.1/2	82	3.23	12	175	36	525	380	15.0	880	34.7	2,68	1.75
RBS48	76	-48	76,2	3	93	3.66	10	150	30	450	425	16.7	880	34.7	3,84	2.58
RBS64	102	-64	101,6	4	120	4.72	10	150	30	450	560	22.1	880	34.7	6,00	4.03

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

RUBBER - FUEL/OIL

FDHA

FUEL/OIL

RYCO HD FUEL DELIVERY



RECOMMENDED FOR:

Delivery of oil and fuel up to 50% aromatic content.

TUBE:

Black, oil resistant NBR.

REINFORCEMENT:

High tensile textile cords with anti-static wire.

COVER:

Black EPDM/NBR - abrasion, ozone and hydrocarbon resistant (wrapped impression finish).

FEATURES:

A Heavy Duty petroleum delivery hose which incorporates an anti-static wire to connect to end fittings as required.

TEMPERATURE RANGE:

From -30°C to +80°C (-22°F to 176°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

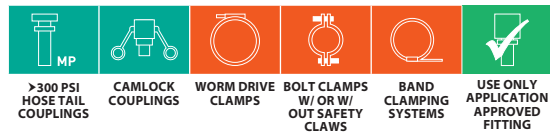
20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.



FDHA RYCO HD FUEL DELIVERY														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
FDHA20	31	-20	31,8	1.1/4	44	1.73	20	300	60	900	175	6.9	1,03	0.70
FDHA24	38	-24	38,1	1.1/2	54	2.13	20	300	60	900	210	8.3	1,17	0.79
FDHA32	51	32	50,8	2	64	2.52	20	300	60	900	290	11.4	1,97	1.32

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

FPDA

FUEL/OIL

RYCO FUEL DELIVERY
WITH ANTI-STATIC WIRE



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Delivery of oil and fuel up to 50% aromatic content.

TUBE:

Black, oil resistant NBR.

REINFORCEMENT:

High tensile textile cords with anti-static wire.

COVER:

Red EPDM/NBR - abrasion, ozone and hydrocarbon resistant (wrapped impression finish).

FEATURES:

A Medium Duty petroleum delivery hose which incorporates an anti-static wire to connect to end fittings as required.

TEMPERATURE RANGE:

From -30°C to +80°C (-22°F to 176°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.



>150 PSI
HOSE TAIL
COUPLINGS

COMBINATION
HOSE NIPPLES

CAMLOCK
COUPLINGS

WORM DRIVE
CLAMPS

BOLT CLAMPS
W/OR W/
OUT SAFETY
CLAWS

BAND
CLAMPING
SYSTEMS

USE ONLY
APPLICATION
APPROVED
FITTING

FPDA RYCO FUEL DELIVERY														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
FPDA20	31	-20	31,8	1.1/4	45	1.77	10	150	30	450	295	11.6	0,99	0.66
FPDA24	38	-24	38,1	1.1/2	52	2.05	10	150	30	450	350	13.9	1,30	0.87
FPDA32	51	-32	50,8	2	64	2.52	10	150	30	450	495	19.5	1,47	0.98
FPDA40	63	-40	63,5	2.1/2	78	3.07	10	150	30	450	605	23.8	2,08	1.40
FPDA48	76	-48	76,2	3	92	3.62	10	150	30	450	732	28.8	2,85	1.91
FPDA64	102	-64	101,6	4	119	4.68	10	150	30	450	1016	40.0	3,82	2.57

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

RUBBER - FUEL/OIL

SR

FUEL/OIL

SUCTION AND RETURN HOSE



RECOMMENDED FOR:

Petroleum and water-based hydraulic fluids in suction lines or in Low Pressure return lines.

PERFORMANCE:

Meets or Exceeds the Performance Requirements of: AS 3791 100R4 (except SR48), SAE 100R4.

TUBE:

Black, oil resistant synthetic rubber.

REINFORCEMENT:

Textile reinforcement with spiral wire to prevent collapsing.

COVER:

Black, oil resistant and abrasion resistant synthetic rubber (wrapped impression finish).

TEMPERATURE RANGE:

From -40°C to +100°C (-40°F to +212°F).

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

THIRD PARTY APPROVALS:

ABS, DNV, GL, LR, MED and USCG.

COUPLINGS:

Working pressure shown is for hose performance capabilities. Performance of a hose assembly depends on couplings used.

1. For Suction Applications, and Low Pressure Delivery (up to 25% of Maximum Working Pressure).



33000 SERIES COUPLINGS WITH RSC CLAMP

33000 Series (sizes -12 to -48).

33000 Series Couplings require a suitable clamp around the outside of the hose. Refer to RYCO RSC Clamps shown below.

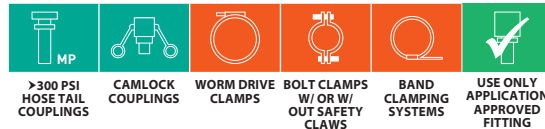
2. For Suction Applications, and High Pressure Delivery (up to 100% of Maximum Working Pressure).



BITELOK NON-SKIVE ONE-PIECE CRIMP

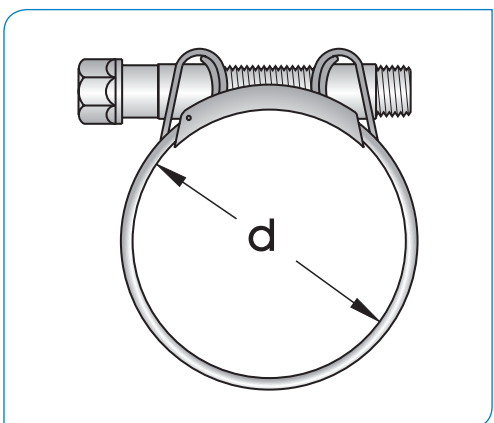
T4000 Series (sizes -12 and -16)

For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.



SR - SUCTION AND RETURN HOSE																
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
SR12	19	-12	19,1	3/4	31,5	1.24	21	300	84	1200	125	4.9	635	25	0,82	0.55
SR16	25	-16	25,4	1	40,0	1.57	17	250	68	1000	150	5.9	635	25	1,00	0.67
SR40	63	-40	63,5	2.1/2	78,5	3.09	4,3	62	17	250	350	13.8	635	25	2,37	1.59
SR48	76	-48	76,2	3	90,7	3.57	3,9	56	16	225	450	17.7	635	25	2,45	1.65

HOSE PART NO	CLAMP PART NO	CLAMP ADJUSTMENT RANGE	RECOMMENDED TIGHTENING TORQUE	
		d mm	N.m	ft.lbf
SR12	RSC-3134	31 to 34	20	15
SR16	RSC-3740*	37 to 40	20	15
	RSC-4043*	40 to 43	20	15
SR40	RSC-7379	73 to 79	25	18
SR48	RSC-8591	85 to 91	25	18



NOTE: For sizes -20, -24 and -32, use RYCO SRF Hose.
 *Due to the manufacturing tolerance on the outside diameter of the hose and the range of adjustment of the clamp, it is necessary to confirm correct clamp at time of assembly.

SRF

FUEL/OIL

 COMPACT
SUCTION AND RETURN HOSE


INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Petroleum and water-based hydraulic fluids in suction lines or in Low Pressure return lines. Small bend radius is an advantage in installations where space is minimal. (Tighter Bend Radius than SAE 100R4)

PERFORMANCE:

Meets or Exceeds the Performance Requirements of: AS 3791 100R4, SAE 100R4.

TUBE:

Black, oil resistant synthetic rubber.

REINFORCEMENT:

Textile reinforcement with spiral wire to prevent collapsing.

COVER:

Black, oil resistant and abrasion resistant synthetic rubber (wrapped impression finish).

TEMPERATURE RANGE:

From -40°C to +100°C (-40°F to +212°F).

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

COUPLINGS:

Working pressure shown is for hose performance capabilities. Performance of a hose assembly depends on couplings used.

1. For Suction Applications, and Low Pressure Delivery (up to 25% of Maximum Working Pressure).



PUSH ON
33000
SERIES

33000 SERIES COUPLINGS WITH RSC CLAMP

33000 Series (sizes -12 to -32)

33000 Series Couplings require a suitable clamp around the outside of the hose. Refer to RYCO RSC Clamps shown below.

2. For Suction Applications, and High Pressure Delivery (up to 100% of Maximum Working Pressure).



ONE PIECE
CRIMP
T4000

BITELOK NON-SKIVE ONE-PIECE CRIMP T4000 Series

(sizes -12 to -32)

For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.



>300 PSI
HOSE TAIL
COUPLINGS



CAMLOCK
COUPLINGS



WORM DRIVE
CLAMPS



BOLT CLAMPS
W/ OR W/
OUT SAFETY
CLAWS



BAND
CLAMPING
SYSTEMS



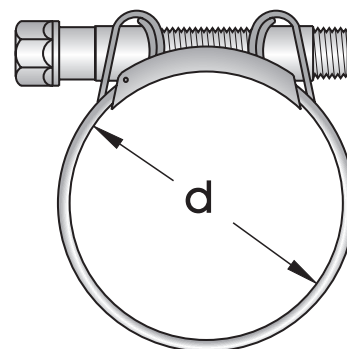
USE ONLY
APPLICATION
APPROVED
FITTING

SRF - DEFIANT COMPACT SUCTION AND RETURN HOSE																
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
SRF12	19	-12	19,1	3/4	31,5	1.24	21	300	84	1200	63	2.5	635	25	0,82	0.55
SRF16	25	-16	25,4	1	40,0	1.57	17	250	68	1000	75	2.9	635	25	1,00	0.67
SRF20	31	-20	31,8	1.1/4	46,5	1.83	14	200	56	800	100	3.9	635	25	1,19	0.80
SRF24	38	-24	38,1	1.1/2	53,1	2.09	10	150	40	600	125	4.9	635	25	1,39	0.93
SRF32	51	-32	50,8	2	65,5	2.58	7	100	28	400	150	5.9	635	25	1,94	1.30

HOSE PART NO	CLAMP PART NO	CLAMP ADJUSTMENT RANGE	RECOMMENDED TIGHTENING TORQUE	
		d mm	N.m	ft.lbf
SRF12	RSC-3134	31 to 34	20	15
SRF16	RSC-3740*	37 to 40	20	15
	RSC-4043*	40 to 43	20	15
SRF20	RSC-4347*	43 to 47	20	15
	RSC-4751*	47 to 51	20	15
SRF24	RSC-5155	51 to 55	20	15
SRF32	RSC-6368	63 to 68	25	18

NOTE: For sizes -20, -24 and -32, use RYCO SRF Hose.

*Due to the manufacturing tolerance on the outside diameter of the hose and the range of adjustment of the clamp, it is necessary to confirm correct clamp at time of assembly.



HOSE

RUBBER - FUEL/OIL

M1

FUEL/OIL

FUEL LINE
ONE TEXTILE BRAID HOSE



RECOMMENDED FOR:

Multi-purpose hose for use on fuel lines, PCV and EEC systems, and for fuel-return hose connections on diesel fuel injection systems. For use with leaded and unleaded petrol, oil, diesel and other fuels.

PERFORMANCE:

Meets or Exceeds the Performance Requirements of: SAE 30R7.

TUBE:

Black, oil resistant synthetic rubber.

REINFORCEMENT:

One textile braid.

COVER:

Black, oil resistant synthetic rubber. Resists the effects of high heat and ozone found in engine compartments.

TEMPERATURE RANGE:

From -40°C to +125°C (-40°F to +257°F).

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.



USE ONLY
APPLICATION
APPROVED
FITTING

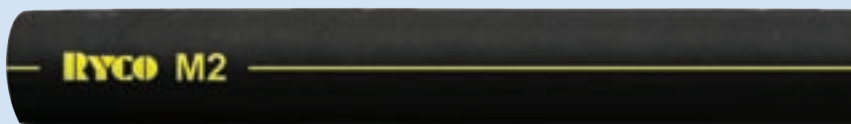
M1 - FUEL LINE HOSE																
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
M14	6	-04	6,4	1/4	12,7	0.50	3,5	50	14	200	75	3.0	610	24	0,14	0.09
M15	8	-05	7,9	5/16	14,3	0.56	3,5	50	14	200	75	3.0	610	24	0,17	0.11
M16	10	-06	9,5	3/8	15,9	0.63	3,5	50	14	200	100	4.0	610	24	0,18	0.12

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

M2

FUEL/OIL

TEXTILE
TWO TEXTILE BRAID HOSE



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Medium Pressure hydraulic oil lines, antifreeze solutions, water.

PERFORMANCE:

Meets or Exceeds the Performance Requirements of: AS 3791 100R3, DIN 20021-2TE, ISO 4079 Type R3, SAE 100R3.

TUBE:

Black, oil resistant synthetic rubber.

REINFORCEMENT:

Two textile braids.

COVER:

Black, oil resistant and abrasion resistant synthetic rubber. No skiving required with T4000 Series BITELOK Crimp Couplings and M000 Series Field Attachable Couplings.

MSHA - FLAME RESISTANCE:

Meets Flame Resistant Designation "U.S. MSHA" of the US Department of Labor, Mine Safety and Health Administration. Complies with Flame Resistant requirements of Australian Standard AS 2660 and Method of Test AS 1180.10B.

TEMPERATURE RANGE:

From -40°C to +100°C (-40°F to +212°F).

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

THIRD PARTY APPROVALS:

ABS, DNV, GL, LR, MED and USCG.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:



ONE PIECE CRIMP T4000

BITELOK NON-SKIVE ONE-PIECE CRIMP T4000 Series (sizes -04 to -12)



FIELD ATTACHABLE 6000 SERIES INSERT

FIELD ATTACHABLE NON-SKIVE 6000 Series insert (sizes -04 to -12)
M000 Series ferrule (sizes -04 to -12)

For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.



USE ONLY APPLICATION APPROVED FITTING

M2 – TEXTILE BRAID														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
M24	6	-04	6,4	1/4	14,3	0.56	88	1250	350	5000	75	3.0	0,16	0.11
M26	10	-06	9,5	3/8	19,0	0.75	79	1125	315	4500	100	4.0	0,28	0.19
M28	12	-08	12,7	1/2	23,8	0.94	70	1000	280	4000	125	5.0	0,41	0.28
M212	19	-12	19,1	3/4	31,7	1.25	52	750	210	3000	240	9.5	0,65	0.44

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

RUBBER - MATERIAL HANDLING

CSD

MATERIAL HANDLING
RYCO STEEL CONCRETE
DELIVERY



RECOMMENDED FOR:

Used for the placement of concrete to the casting location; its flexible construction allows easy handling and small bending radius; crush and full suction resistant.

TUBE:

Black conductive NR and CBR - very high abrasion resistant.

REINFORCEMENT:

High tensile steel wire cords.

COVER:

Synthetic rubber - abrasion, ozone and weather resistant.

FEATURES:

Ozone Resistance; UV Stabilised; Antistatic. Abrasion Value Max: 70mm

TEMPERATURE RANGE:

From -30°C to +70°C (-22°F to +158°F).

WORKING PRESSURE:

Maximum working pressures are based on an approximate 2:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:



CSD RYCO STEEL CONCRETE														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
CSD32	51	-32	50,8	2	70	2.76	85	1233	200	2900	508	20	3,41	24.66
CSD40	63	-40	63,5	2.1/2	88	3.46	85	1233	200	2900	635	25	4,97	35.95
CSD48	76	-48	76,2	3	102	4.01	85	1233	200	2900	762	30	6,58	47.59
CSD64	102	-64	101,6	4	130	5.12	85	1233	200	2900	1016	40	9,38	67.84
CSD80	127	-80	127,0	5	155	6.10	85	1233	200	2900	1270	50	10,95	79.20
CSD96	152	-96	152,4	6	184	7.24	85	1233	175	2500	1524	60	12,49	90.34

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

MHD

MATERIAL HANDLING

RYCO MATERIAL HANDLING A/R
TEXTILE DELIVERY



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Delivery of dry powder material and cement.

TUBE:

Black conductive NR - high abrasion resistant.

REINFORCEMENT:

High tensile textile cords.

COVER:

Black conductive EPDM/NR - high abrasion resistant.

FEATURES:

Ozone Resistance; UV Stabilised

TEMPERATURE RANGE:

From -30°C to + 80°C (-22°F to 176°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

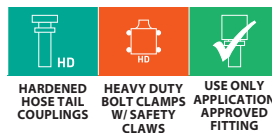
COIL LENGTHS:

20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:



MHD RYCO MATERIAL HANDLING A/R		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT	
PART NO	HOSE SIZE	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
MHD48	76 -48	76,2	3	88	3.46	10	150	30	450	742	29.2	2.10	1.41
MHD64	102 -64	101,6	4	116	4.57	10	150	30	450	980	38.6	3.20	2.15
MHD80	127 -80	127,0	5	143	5.63	10	150	30	450	1255	49.4	3.90	2.62

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

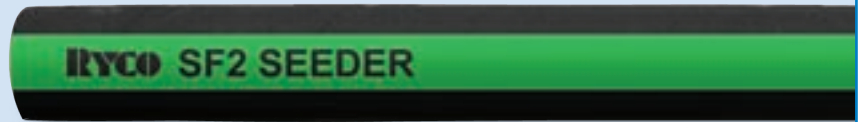
HOSE

RUBBER - MATERIAL HANDLING

SF2

MATERIAL HANDLING

RYCO SUPERSEEDER
SUCTION AND DELIVERY



RECOMMENDED FOR:

A quality abrasion resistant suction and delivery hose suitable for a very broad range of applications including: air seeder, grains, granular and liquid fertilisers, light slurries or water.

TUBE:

Black NR.

REINFORCEMENT:

Textile reinforced with twin spiral wire helix.

COVER:

Black SBR/EPDM blend (wrapped impression finish).

FEATURES:

An ideal Air Seeder hose for both primary and secondary lines.

Abrasion resistant tube 3mm thick.

Very flexible and strong.

UV and abrasion resistant cover.

Suitable for Medium Duty dry or wet slurry applications.

TEMPERATURE RANGE:

From -30°C to +70°C (-22°F to +158°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

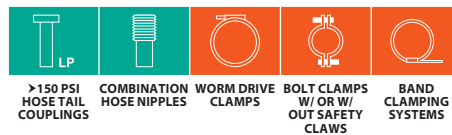
COIL LENGTHS:

20 Metre or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:



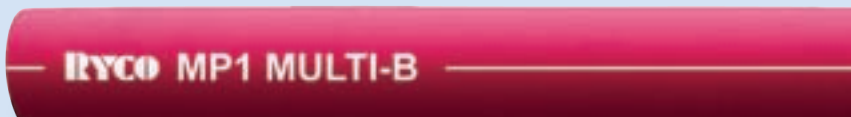
SF2 RYCO SUPERSEEDER														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
SF220	31	-20	31,8	1.1/4	42	1.65	12	175	36	525	220	8.7	0,89	0.60
SF228	44	-28	44,5	1.3/4	56	2.20	12	175	36	525	300	11.8	1,43	0.96
SF232	51	-32	50,8	2	63	2.48	12	175	36	525	320	12.6	1,69	1.13
SF240	63	-40	63,5	2.1/2	76	2.99	12	175	36	525	420	16.5	2,05	1.38
SF248	76	-48	76,2	3	91	3.58	12	175	36	525	500	19.7	3,10	2.08

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

MP1

MULTI-PURPOSE

RYCO RED MULTI PURPOSE
ONE TEXTILE BRAID



RECOMMENDED FOR:

Air, water, petroleum oils, kerosene and fuel oils.

PERFORMANCE:

Meets or Exceeds the Performance Requirements of:
RMA (USA) Class A High Oil Resistance (tube),
RMA (USA) Class B Medium Oil Resistance (cover),

TUBE:

Black, oil resistant synthetic rubber. RMA (USA) Class A High Oil Resistance.

REINFORCEMENT:

One textile braid.

COVER:

Red, oil resistant and abrasion resistant extruded synthetic rubber (Modified Nitrile). RMA (USA) Class B Medium Oil Resistance. No skiving required with T4000 Series BITELOK Crimp Couplings.

FEATURES:

Tube non-conductive at 1000 volts DC. Meets electrical resistance of one megohm per inch when subjected to 1000 volts DC. Incorrect storage and use may adversely affect electrical properties.

TEMPERATURE RANGE:

Air, water, petroleum and lubricating oils: -40°C to +93°C (-40°F to +200°F). Petrol, kerosene, fuel oils: -40°C to +49°C (-40°F to +120°F). For continuous service at upper temperature limit, reduce maximum working pressure by 30%.

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure), and are for the performance of the hose with RYCO T4000 Series BITELOK One-Piece couplings only. Maximum working pressure for a hose assembly with other couplings depends on the type of coupling and the type of clamp used. MP1 Hose should not be used at maximum working pressure and maximum working temperature simultaneously.

COUPLINGS:



BITELOK NON-SKIVE ONE-PIECE CRIMP T4000 Series (sizes -04 to -20)

ONE PIECE
CRIMP
T4000

For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.

Standard industrial hose barbed tails with hose clamps may also be suitable depending on working pressure required.

Not suitable for use with RYCO 8000 Series Push-On couplings.



>300 PSI
HOSE TAIL
COUPLINGS

CLAW TYPE
COUPLINGS
WITH SAFETY
COLLARS

WORM DRIVE
CLAMPS

BOLT CLAMPS
W/ OR W/
OUT SAFETY
CLAWS

BAND
CLAMPING
SYSTEMS

MP1 - MULTI PURPOSE HOSE														
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
MP14	6	-04	6,4	1/4	13,5	0.53	13,8	200	55,2	800	50	2.0	0,16	0.11
MP15	8	-05	7,9	5/16	15,5	6.1/8	13,8	200	55,2	800	65	2.5	0,20	0.13
MP16	10	-06	9,5	3/8	17,5	0.69	13,8	200	55,2	800	75	3.0	0,24	0.16
MP18	12	-08	12,7	1/2	21,4	0.84	13,8	200	55,2	800	85	4.0	0,33	0.22
MP110	16	-10	15,9	5/8	25,4	1.00	13,8	200	55,2	800	105	5.0	0,43	0.29
MP112	19	-12	19,1	3/4	28,6	1.13	13,8	200	55,2	800	120	5.0	0,48	0.32
MP116	25	-16	25,4	1	37,3	1.47	13,8	200	55,2	800	155	8.0	0,82	0.55
MP120	31	-20	31,8	1.1/4	43,9	1.73	13,8	200	55,2	800	230	10.0	1,00	0.68

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

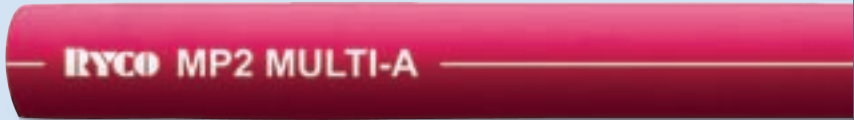
HOSE

RUBBER - MULTI-PURPOSE

MP2

MULTI-PURPOSE

RYCO RED MULTI-PURPOSE
TWO TEXTILE BRAID



RECOMMENDED FOR:

Air, water, petroleum oils, kerosene and fuel oils.

PERFORMANCE:

Meets or Exceeds the Performance Requirements of:
RMA (USA) Class A High Oil Resistance (tube),
RMA (USA) Class A High Oil Resistance (cover),

TUBE:

Black, oil resistant synthetic rubber. RMA (USA) Class A High Oil Resistance.

REINFORCEMENT:

Two textile braids.

COVER:

Red, oil resistant and abrasion resistant extruded synthetic rubber (Modified Nitrile). RMA (USA) Class A High Oil Resistance. No skiving required with T4000 Series BITELOK Crimp Couplings.

FEATURES:

Tube non-conductive at 1000 volts DC. Meets electrical resistance of one megohm per inch when subjected to 1000 volts DC. Incorrect storage and use may adversely affect electrical properties.

A premium High Pressure multi-purpose hose with Class A High oil-resistant tube and cover.

TEMPERATURE RANGE:

From -40°C to +93°C (-40°F to 199°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20 or 100 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:



BITELOK NON-SKIVE ONE-PIECE CRIMP T4000 Series (sizes -04 to -20)

For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.

Standard industrial hose barbed tails with hose clamps may also be suitable depending on working pressure required.

Not suitable for use with RYCO 8000 Series Push-On couplings.



MP2 RYCO RED MULTI-PURPOSE														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
MP24	6	-04	6,4	1/4	14	0.55	20	300	80	1200	40	1.6	0,18	0.12
MP25	8	-05	7,9	5/16	16	0.63	20	300	80	1200	50	2.0	0,22	0.15
MP26	10	-06	9,5	3/8	18	0.71	20	300	80	1200	55	2.2	0,26	0.17
MP28	12	-08	12,7	1/2	23	0.90	20	300	80	1200	70	2.7	0,35	0.23
MP210	16	-10	15,9	5/8	26	1.02	20	300	80	1200	85	3.3	0,53	0.36
MP212	19	-12	19,1	3/4	30	1.18	20	300	80	1200	100	3.9	0,62	0.42
MP216	25	-16	25,4	1	38	1.49	20	300	80	1200	125	4.9	0,99	0.66

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

MPX

MULTI-PURPOSE
RYCO MULTI-PURPOSE



RECOMMENDED FOR:

Delivery of fuel, oil, compressed air and water.

TUBE:

Black NBR.

REINFORCEMENT:

High tensile textile cords.

COVER:

Red EPDM/NBR - abrasion and ozone resistant (wrapped impression finish).

FEATURES:

A Heavy Duty multi-purpose fuel, oil, air and water hose. Abrasion and UV resistant cover.

NOTE: This hose does NOT have a non-conductive tube.

TEMPERATURE RANGE:

From -30°C to +80°C (-22°F to 176°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

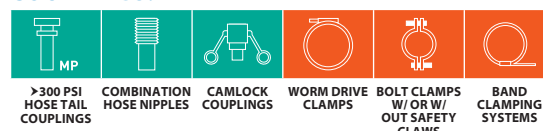
COIL LENGTHS:

20 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

MPX RYCO MULTI-PURPOSE														
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
MPX20	31	-20	31,8	1.1/4	42	1.65	20	300	60	900	295	11.6	0.90	0.60
MPX24	38	-24	38,1	1.1/2	50	1.97	20	300	60	900	350	13.8	1.13	0.76
MPX32	51	-32	50,8	2	64	2.52	20	300	60	900	495	19.5	1.49	1.00

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

RUBBER - MULTI-PURPOSE

PL1

MULTI-PURPOSE
PUSH-ON HOSE
ONE TEXTILE BRAID HOSE



RECOMMENDED FOR:

Petroleum-based hydraulic oils, glycol antifreeze solutions, water, diesel fuels, and air.

PERFORMANCE:

Meets or Exceeds the Performance Requirements of: AS 3791 100R6, DIN 20021-1TE, ISO 4079 Type 1, SAE 100R6.

TUBE:

Black, oil resistant synthetic rubber.

REINFORCEMENT:

One textile braid.

COVER:

Black, oil and abrasion resistant synthetic rubber. No skiving required with T4000 Series BITELOK Crimp Couplings.

MSHA - FLAME RESISTANCE:

Meets Flame Resistant Designation "U.S. MSHA" of the US Department of Labor, Mine Safety and Health Administration. Complies with Flame Resistant requirements of Australian Standard AS 2660 and Method of Test AS 1180.10B.

TEMPERATURE RANGE:

From -40°C to +95°C (-40°F to +203°F).

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure). PL1 Hose, and 800 Series Push-On Fittings, are recommended for use in systems with Static Working Pressures (constant loads without pressure spikes) only. They are not recommended for vibration or pressure surge applications. PL1 Hose should not be used at both maximum working pressure and maximum temperature simultaneously.

COUPLINGS:



ONE PIECE CRIMP T4000

BITELOK NON-SKIVE ONE-PIECE CRIMP T4000 Series (Sizes -04 to -12)



PUSH ON 8000 SERIES

PUSH-ON 8000 Series (sizes -04 to -12).

PL1 Hose simply pushes on to 8000 Series Couplings.

For diesel fuel and other potentially dangerous, or critical applications crimp fittings are required.



USE ONLY APPLICATION APPROVED FITTING

For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.

PL1 PUSH ON HOSE																
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
PL14	6	-04	6,4	1/4	12,3	0.48	28	410	112	1640	65	2.5	710	28	0,12	0.08
PL15	8	-05	8,0	5/16	13,9	0.55	28	410	112	1640	75	3.0	710	28	0,14	0.09
PL16	10	-06	9,5	3/8	15,5	0.61	28	410	112	1640	75	3.0	635	25	0,17	0.11
PL18	12	-08	12,7	1/2	19,0	0.75	28	410	112	1640	100	4.0	460	18	0,22	0.15
PL110	16	-10	16,0	5/8	22,6	0.89	24	350	96	1400	125	5.0	380	15	0,29	0.19
PL112	19	-12	19,1	3/4	25,8	1.02	21	305	84	1220	150	6.0	380	15	0,34	0.23

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.



SHOCKWAVE

Heavy Industry Waterblast Hose



HOSE

SHOCKWAVE HIGH PRESSURE WATERBLAST

SW

SPECIALTY

SHOCKWAVE
HIGH PRESSURE WATERBLAST
VERY HIGH PRESSURE WATERBLAST



RECOMMENDED FOR:

Very High Pressure waterblast hose for the cleaning and preparation of marine surfaces, runway and swimming pool cleaning, and paint removal.

Not recommended for Steam.

TUBE:

Oil and water resistant synthetic rubber.

REINFORCEMENT:

Four alternating layers of spiralled high tensile steel wire.

COVER:

Oil, water and ozone resistant synthetic rubber. The cover is formulated to resist marking. Internal and External skiving required with 46000W Series BITELOK Interlok Crimp Couplings.

FEATURES:

Exceeds ISO 7751 performance requirements.
Meets specifications EN 1829-2 (impulse) and AS/NZS 4233.2.

Highly abrasion resistant cover.

TEMPERATURE RANGE:

Continuous service from -20°C to +80°C (-4°F to +176°F).
Intermittent service to +100°C (+212°F).

WORKING PRESSURE:

Maximum working pressures are based on 2.5:1 safety factor (maximum working pressure to minimum burst pressure).

COUPLINGS:



BITELOK INTERLOK SKIVE TWO-PIECE CRIMP 46000W series (sizes -06 to -16).

For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.

NOTE: Unless otherwise stated, all assemblies manufactured shall be rated to the lesser rated working pressure of either the Hose, Fittings and Clamping method used.

SW SHOCKWAVE - HIGH PRESSURE HOSE																
COLOUR CODE	PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES INTERLOK TWO-PIECE	
	Hose	DN Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	INT/EXT SKIVE	
	SW18006	10 -06	9,5	3/8	21,5	0.85	1250	18125	3125	45315	150	5.9	0,56	0.37	46000W	
	SW16008	12 -08	12,7	1/2	24,6	0.97	1100	16000	2750	40000	180	7.1	0,83	0.56	46000W	
	SW14512	19 -12	19,0	3/4	31,9	1.26	1000	14500	2500	36250	220	8.7	0,92	0.62	46000W	
	SW10012	19 -12	19,0	3/4	30,6	1.21	700	10000	1750	25000	220	8.7	1,34	0.90	46000W	
	SW10016	25 -16	25,4	1	37,6	1.48	700	10000	1750	25000	250	9.8	1,39	0.93	46000W	

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

WJTA-IMCA colour code recommendations:

	10K Pressure Range
	15K Pressure Range
	20K Pressure Range

RYCO SHOCKWAVE HIGH PRESSURE WATERBLAST HOSE ASSEMBLIES

RYCO offers a large range of off-the-shelf High Pressure waterblast hose assemblies for all popular working pressures, up to 1250 bar/18125 psi.

All hose, couplings and hose assemblies have been designed, validated and fabricated by RYCO to ensure safe, and reliable endurance under even the most harshest of conditions.

Each fully certified RYCO SHOCKWAVE waterblast hose assembly supplied by RYCO is tested, quality checked and labelled with:

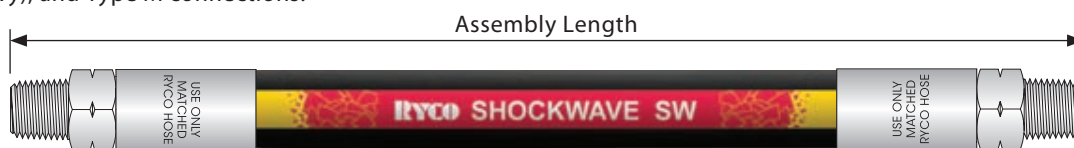
- Part Number,
- Unique Serial Number for complete traceability and asset management, and
- Expiry Date .

Most hose assemblies are stocked in either one or more of the following lengths, but custom assemblies are also available:

ASSEMBLY LENGTHS:

15,2m / 20m / 30,4m / 40m
(50ft / 65ft / 100ft / 130 ft)

The RYCO coupling range comes in a wide variety of connection types, including popular NPTF Male, BSPT Female, Metric DKOS (Heavy), and Type M connections.



RECOMMENDATIONS FOR RYCO SHOCKWAVE WATERBLAST HOSE ASSEMBLIES

- **DO NOT MIX AND MATCH PRODUCT.** Use only matched RYCO products to fabricate waterblast hose assemblies.
- In order to achieve optimum performance, the assembly of RYCO SHOCKWAVE hose and matched 46000W BITELOK Interlok fittings must be performed using RYCO approved assembly procedures and equipment. RYCO production testing procedures should be used to ensure that the hose assembly produced is fit for purpose.
- For guaranteed performance of assemblies, use only RYCO-approved assembly facilities or distribution partners. Contact RYCO for your nearest approved assembler.
- Waterblast hose assemblies must not exceed the rated maximum working pressure. It is highly recommended that waterblast hose assemblies should not be used in pressure impulse applications.
- Waterblast hose assemblies must not operate outside of the operating temperature range specified for RYCO SHOCKWAVE hoses.
- Do not exert any external forces on the hose assembly, such as axial tension, twisting, kinking or crushing, which may reduce the integrity of the hose assembly. Waterblast hose assemblies should be inspected for signs of deterioration on a regular basis and shall be replaced if damaged or worn. Damage includes but is not limited to twisting, kinking, crushing, hose cover cuts or excessive wear, chemical degradation and corrosion.
- When whipchecks or other safety devices are installed to protect against injury or damage as a result of hose and fitting separation, the change in length of hose under pressure should be considered.
- Waterblast hose assemblies should be adequately supported to prevent excessive tensile (or other) stresses at any point along the hose assembly.
- High Pressure water is extremely dangerous. Operators should wear appropriate personal protective equipment at all times, and should observe all related operational and safe working requirements when operating high pressure waterblast equipment.



SAFETY GUIDE

FOR THE SELECTION AND USE OF HOSE, FITTINGS AND RELATED ACCESSORIES

Failure or improper selection or improper use of hose, fittings, or related accessories can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of hose, fittings, or related accessories include, but are not limited to:

- Fittings blown off at high speed.
- High velocity medium discharge.
- Explosion, or burning, of the conveyed medium.
- Electrocution from high voltage electric power lines or other sources of electricity.
- Contact with suddenly moving, or falling, objects that are held in position, or moved, by conveyed medium.
- Injections by high-pressure fluid or air discharge.
- Dangerously whipping hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity build-up.
- Sparking, or explosion, while spraying paint or other flammable liquid.



JETSTORM

Pressure Washer Hose

JS4000 and JS6000

RYCO JETSTORM JS6000

JS4000B and JS6000B

RYCO JETSTORM JS6000

JS4000G and JS6000G

RYCO JETSTORM JS6000



JS4000

SPECIALTY
JETSTORM
PRESSURE WASHER
280 BAR/4100 PSI

RECOMMENDED FOR:

Hot Water Pressure Washer Machines.
Not recommended for Steam.

TUBE:

Black, heat resistant synthetic rubber.

REINFORCEMENT:

One braid of high tensile steel wire.

COVER:

Black, blue or grey oil resistant and abrasion resistant synthetic rubber. The cover is formulated to resist marking. Blue & grey covers are Animal Fat Resistant (AFR) Embossed layline for positive, permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings.

TEMPERATURE RANGE:

JS4000 JETSTORM Hose handles hot water up to +135°C (+275°F) with intermittent service to +150°C (+302°F).

WORKING PRESSURE:

Maximum working pressures are based on 3:1 safety factor (maximum working pressure to minimum burst pressure).

COUPLINGS:



BITELOK NON-SKIVE ONE-PIECE CRIMP T2000 series (sizes -04 to -08).

For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.

JS4000 JETSTORM - PRESSURE WASHER HOSE															
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES T2000 ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
JS4004	6	-04	6,3	1/4	11,4	0.45	280	4100	840	12300	50	2.0	0,17	0.11	T2000
JS4005	8	-05	7,9	5/16	13,7	0.54	280	4100	840	12300	55	2.2	0,23	0.15	T2000
JS4006	10	-06	9,5	3/8	14,9	0.59	280	4100	840	12300	65	2.6	0,26	0.17	T2000
JS4008	12	-08	12,7	1/2	19,4	0.76	280	4100	840	12300	90	3.6	0,36	0.24	T2000
JS4004B	6	-04	6,3	1/4	11,4	0.45	280	4100	840	12300	50	2.0	0,17	0.11	T2000
JS4005B	8	-05	7,9	5/16	13,7	0.54	280	4100	840	12300	55	2.2	0,23	0.15	T2000
JS4006B	10	-06	9,5	3/8	14,9	0.59	280	4100	840	12300	65	2.6	0,26	0.17	T2000
JS4008B	12	-08	12,7	1/2	19,4	0.76	280	4100	840	12300	90	3.6	0,36	0.24	T2000
JS4004G	6	-04	6,3	1/4	11,4	0.45	280	4100	840	12300	50	2.0	0,17	0.11	T2000
JS4005G	8	-05	7,9	5/16	13,7	0.54	280	4100	840	12300	55	2.2	0,23	0.15	T2000
JS4006G	10	-06	9,5	3/8	14,9	0.59	280	4100	840	12300	65	2.6	0,26	0.17	T2000
JS4008G	12	-08	12,7	1/2	19,4	0.76	280	4100	840	12300	90	3.6	0,36	0.24	T2000

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

JETSTORM PRESSURE WASHER

JS6000

SPECIALTY

JETSTORM
PRESSURE WASHER
420 BAR/6100 PSI



RECOMMENDED FOR:

Hot Water Pressure Washer Machines operating at High Pressures.

Not recommended for Steam.

TUBE:

Black, heat resistant synthetic rubber.

REINFORCEMENT:

Two braids of high tensile steel wire.

COVER:

Black, blue or grey oil resistant and abrasion resistant synthetic rubber. The cover is formulated to resist marking. Embossed layline for positive, permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings.

TEMPERATURE RANGE:

JS6000 JETSTORM Hose handles hot water up to +135°C (+275°F) with intermittent service to +150°C (+302°F).

WORKING PRESSURE:

Maximum working pressures are based on 3:1 safety factor (maximum working pressure to minimum burst pressure).

COUPLINGS:



BITELOK NON-SKIVE ONE-PIECE CRIMP T2000 series (sizes -04 to -08).

For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.

JS6000 JETSTORM - PRESSURE WASHER HOSE															
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES T2000 ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
JS6004	6	-04	6,3	1/4	13,2	0.52	420	6100	1260	18300	50	2.0	0,28	0.19	T2000
JS6005	8	-05	7,9	5/16	14,6	0.57	420	6100	1260	18300	55	2.2	0,34	0.23	T2000
JS6006	10	-06	9,5	3/8	16,6	0.65	420	6100	1260	18300	65	2.6	0,41	0.28	T2000
JS6008	12	-08	12,7	1/2	19,6	0.77	420	6100	1260	18300	90	3.6	0,57	0.38	T2000
JS6004B	6	-04	6,3	1/4	13,2	0.52	420	6100	1260	18300	50	2.0	0,28	0.19	T2000
JS6005B	8	-05	7,9	5/16	14,6	0.57	420	6100	1260	18300	55	2.2	0,34	0.23	T2000
JS6006B	10	-06	9,5	3/8	16,6	0.65	420	6100	1260	18300	65	2.6	0,41	0.28	T2000
JS6008B	12	-08	12,7	1/2	19,6	0.77	420	6100	1260	18300	90	3.6	0,57	0.38	T2000
JS6004G	6	-04	6,3	1/4	13,2	0.52	420	6100	1260	18300	50	2.0	0,28	0.19	T2000
JS6005G	8	-05	7,9	5/16	14,6	0.57	420	6100	1260	18300	55	2.2	0,34	0.23	T2000
JS6006G	10	-06	9,5	3/8	16,6	0.65	420	6100	1260	18300	65	2.6	0,41	0.28	T2000
JS6008G	12	-08	12,7	1/2	19,6	0.77	420	6100	1260	18300	90	3.6	0,57	0.38	T2000

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

SSR

SPECIALTY
RYCO STEEL STEAM RED



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Saturated steam; widely used in refineries, shipyards and petrochemical plants.

STANDARDS MET OR EXCEEDED:

EN ISO 6134/05 Type 2 Class A. (Ω) Also BS5342.

TUBE:

Black EPDM.

REINFORCEMENT:

High tensile steel cords.

COVER:

Red EPDM - Heat, abrasion and ozone resistant, pin pricked.

FEATURES:

Excellent high temperature saturated steam hose. A flexible hose, with a pin-pricked, abrasion and weathering resistant red cover.

TEMPERATURE RANGE:

From -40°C to +210°C (-40°F to +410°F).

WORKING PRESSURE:

Maximum working pressures are based on a 10:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

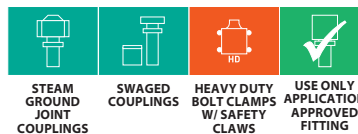
20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.



SSR RYCO STEEL STEAM RED														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
SSR8	12	-08	12,7	1/2	25	0.98	17	250	170	2500	130	5.1	0.55	0.37
SSR12	19	-12	19,1	3/4	32	1.26	17	250	170	2500	190	7.5	0.72	0.48
SSR16	25	-16	25,4	1	38	1.49	17	250	170	2500	250	9.8	0.89	0.60
SSR20	31	-20	31,8	1.1/4	46	1.81	17	250	170	2500	320	12.6	1.31	0.88
SSR24	38	-24	38,1	1.1/2	54	2.12	17	250	170	2500	385	15.2	1.72	1.15

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

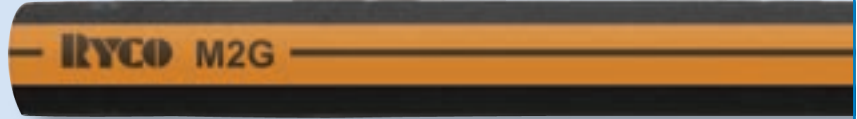
HOSE

RUBBER - SPECIALTY

M2G

SPECIALTY

TWO TEXTILE BRAID HOSE
LPG (CLASS C)



IMPORTANT INFORMATION

RYCO **M2G Series** LPG Hose has Australian Gas Association approval (AGA approval No. 4247) only when used with RYCO **T4000 Series** BITELOK One-Piece Non-Skive Crimp Couplings, or RYCO **M000 Series** Field Attachables.

AVAILABLE ONLY AS FACTORY FITTED HOSE ASSEMBLIES.

WARNING: Do not use Field Attachable Couplings for domestic applications. (This is a requirement of Australian Standard AS/NZS 1869).

For any queries, please contact RYCO Technical Department.

RECOMMENDED FOR:

Liquified Petroleum Gas and Natural Gas.

PERFORMANCE:

Meets or Exceeds the Performance Requirements of: AS/NZS 1869 Class C (2,6 MPa working pressure, +65°C/+149°F max. temperature).

TUBE:

Black, oil resistant synthetic rubber.

REINFORCEMENT:

Two textile braids.

COVER:

Black, abrasion resistant synthetic rubber. Pin-pricked (perforated). No skiving required with T4000 Series BITELOK Crimp Couplings and M000 Series Field Attachable Couplings.

TEMPERATURE RANGE:

From -20°C to +65°C (-4°F to +149°F).

THIRD PARTY APPROVALS:

AUSTRALIAN GAS ASSOCIATION Approval No. 4247.

COUPLINGS:



ONE PIECE
CRIMP
T4000

**BITELOK NON-SKIVE ONE-PIECE CRIMP
T4000 Series** (sizes -04 to -12)



FIELD
ATTACHABLE
6000 SERIES
M000

**FIELD ATTACHABLE NON-SKIVE
6000 Series** insert (sizes -04 to -12)
M000 Series ferrule (sizes -04 to -12)

For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website, www.RYCO.com.au.

NOTE: Any assemblies manufactured would be rated to the lesser WP of either the Hose, Fittings and Clamping method used.



GAS



USE ONLY
APPLICATION
APPROVED
FITTING

M2G - LPG HOSE														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
M24G	6	-04	6,4	1/4	14,3	0.56	26	375	104	1500	75	3.0	0,16	0.11
M26G	10	-06	9,5	3/8	19,0	0.75	26	375	104	1500	100	4.0	0,28	0.19
M28G	12	-08	12,7	1/2	23,8	0.94	26	375	104	1500	125	5.0	0,41	0.28
M212G	19	-12	19,1	3/4	31,7	1.25	26	375	104	1500	240	9.5	0,65	0.44

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

RQP1

SPECIALTY

SURVIVOR™
HIGH TEMPERATURE
MULTI FLUID
ONE WIRE BRAID HOSE



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

High Pressure hydraulic oil applications where pressure or temperature requirements exceed the performance requirements of SAE 100R1AT and DIN 20022-1SN, or where resistance to phosphate ester** fluid is required. May be used with compressed air if cover of hose is perforated (pin-pricked) and additional Safety Devices are used.

PERFORMANCE:

Meets or Exceeds the Performance Requirements of: AS 3791 100R1AT, DIN 20022-1SN, EN 853 Type 1SN, ISO 1436 Types R1AT and 1SN, SAE 100R1AT.

TUBE:

Black, synthetic rubber, specifically compounded for temperature resistance and multi fluid resistance.

REINFORCEMENT:

One braid of high tensile steel wire.

COVER:

Blue, oil resistant and abrasion resistant synthetic rubber. No skiving required with T2000 and T7000 Series BITELOK Crimp Couplings and K000 Series Field Attachable Couplings*.

MSHA - FLAME RESISTANCE:

Meets Flame Resistant Designation "U.S. MSHA" of the US Department of Labor, Mine Safety and Health Administration. Complies with Flame Resistant requirements of Australian Standard AS 2660 and Method of Test AS 1180.10B.

TEMPERATURE RANGE:

From -40°C to +150°C (-40°F to +302°F).

**Not suitable for use with aerospace type phosphate esters such as Monsanto Skydrol 500B, Stauffer Aero-Safe 2300W and Chevron Hy-jet IV.

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

THIRD PARTY APPROVALS:

ABS, DNV, GL, LR, MED and USCG.

TOLERANCES:

RYCO specification.

COUPLINGS:

BITELOK NON-SKIVE ONE-PIECE CRIMP T2000 Series (sizes -04 to -16)



T7000 Series (sizes -06 to -16)



FIELD ATTACHABLE NON-SKIVE* 6000 Series insert (sizes -04 to -16)
K000 Series ferrule (sizes -04 to -16)



For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.

RQP1 - SURVIVOR NON-SKIVE HOSE																
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		T2000 T7000	6000 K000	
		mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	ONE PIECE COUPLING	FIELD ATT COUPLING	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
RQP14	6	-04	6,4	1/4	13,4	0.53	225	3250	900	13000	100	4.0	0,24	0.16	T2000	6000 (K000)
RQP15	8	-05	7,9	5/16	15,0	0.59	215	3120	860	12500	114	4.5	0,27	0.18	T2000	
RQP16	10	-06	9,5	3/8	17,4	0.69	180	2600	720	10400	127	5.0	0,34	0.23	T2000 T7000	6000 (K000)
RQP18	12	-08	12,7	1/2	20,5	0.81	160	2300	640	9300	178	7.0	0,44	0.30	T2000 T7000	6000 (K000)
RQP110	16	-10	15,9	5/8	23,7	0.93	130	1880	520	7540	200	8.0	0,51	0.34	T2000 T7000	6000 (K000)
RQP112	19	-12	19,1	3/4	27,6	1.09	120	1740	480	7000	240	9.5	0,64	0.43	T2000 T7000	6000 (K000)
RQP116	25	-16	25,4	1	35,7	1.41	90	1300	360	5200	300	12.0	0,98	0.66	T2000 T7000	6000 (K000)

* Field Attachable Couplings should not be used on RQP1 Hose at maximum working pressure when temperature exceeds 121°C (250°F). Field Attachable Couplings may be used on RQP1 Hose at over 121°C but at reduced working pressure. Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

RUBBER - SPECIALTY

RQP2

SPECIALTY

SURVIVOR™
HIGH TEMPERATURE
MULTI FLUID
TWO WIRE BRAID HOSE

RYCO RQP2



RECOMMENDED FOR:

High Pressure hydraulic oil applications where pressure or temperature requirements exceed the performance requirements of SAE 100R2AT, DIN 20022-2SN and EN 853 Type 2SN, or where resistance to phosphate ester† fluid is required. May be used with compressed air if cover of hose is perforated (pin-pricked) and additional Safety Devices are used.

PERFORMANCE:

Meets or Exceeds the Performance Requirements of: AS 3791 100R2AT, DIN 20022-2SN, EN 853 Type 2SN, ISO 1436 Types R2AT and 2SN, SAE 100R2AT.

TUBE:

Black, synthetic rubber, specifically compounded for temperature resistance and multi-fluid resistance.

REINFORCEMENT:

Two braids of high tensile steel wire.

COVER:

Blue, oil resistant and abrasion resistant synthetic rubber. No skiving required with T2000 and T7000 Series BITELOK Crimp Couplings and L000 Series Field Attachable Couplings*.

MSHA - FLAME RESISTANCE:

Meets Flame Resistant Designation "U.S. MSHA" of the US Department of Labor, Mine Safety & Health Administration. Complies with Flame Resistant requirements of Australian Standard AS 2660 and Method of Test AS 1180.10B.

TEMPERATURE RANGE:

From -40°C to +150°C (-40°F to +302°F).

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

THIRD PARTY APPROVALS:

ABS, DNV, GL, LR, MED and USCG.

TOLERANCES:

RYCO specification.

COUPLINGS:

BITELOK NON-SKIVE ONE-PIECE CRIMP T2000 Series (sizes -04 to -32)



T7000 Series (sizes -06 to -32)



FIELD ATTACHABLE NON-SKIVE* 6000 Series insert (sizes -04 to -20)
L000 Series ferrule (sizes -04 to -20)



For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.

RQP2 - SURVIVOR NON-SKIVE HOSE																	
PART NO	HOSE SIZE	NOMINAL HOSE ID	NOMINAL HOSE OD	MAXIMUM WORKING PRESSURE	MINIMUM BURST PRESSURE	MINIMUM BEND RADIUS	AVERAGE WEIGHT	T2000 ONE PIECE COUPLING	T7000 ONE PIECE COUPLING	6000 FIELD ATT COUPLING	L000 FIELD ATT COUPLING	NON-SKIVE					
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	T2000	T7000	6000 (L000)
RQP24	6	-04	6,4	1/4	15,0	0.59	400	5800	1600	23200	100	4.0	0,39	0.26	T2000		6000 (L000)
RQP25	8	-05	7,9	5/16	16,6	0.65	350	5100	1400	20400	114	4.5	0,45	0.30	T2000		
RQP26	10	-06	9,5	3/8	19,0	0.75	350	5100	1400	20400	127	5.0	0,53	0.36	T2000	T7000	6000 (L000)
RQP28	12	-08	12,7	1/2	22,0	0.87	300	4350	1200	17400	178	7.0	0,65	0.44	T2000	T7000	6000 (L000)
RQP210	16	-10	15,9	5/8	25,2	0.99	250	3600	1000	14500	200	8.0	0,77	0.52	T2000	T7000	6000 (L000)
RQP212	19	-12	19,1	3/4	29,1	1.15	215	3100	860	12400	240	9.5	0,93	0.62	T2000	T7000	6000 (L000)
RQP216	25	-16	25,4	1	37,7	1.48	167	2400	670	9600	300	12.0	1,38	0.93	T2000	T7000	6000 (L000)
RQP220	31	-20	31,8	1.1/4	48,0	1.89	150	2175	600	8700	419	16.5	2,03	1.36	T2000	T7000	6000 (L000)
RQP224	38	-24	38,1	1.1/2	54,4	2.14	100	1450	400	5800	500	20.0	2,30	1.55	T2000	T7000	
RQP232	51	-32	50,8	2	67,3	2.65	90	1300	360	5200	600	24.0	3,16	2.12	T2000	T7000	

* Field Attachable Couplings should not be used on RQP2 Hose at maximum working pressure when temperature exceeds 121°C (250°F). Field Attachable Couplings may be used on RQP2 Hose at over 121°C but at reduced working pressure. Contact RYCO for more information.

† Not suitable for use with aerospace type phosphate esters such as Monsanto Skydrol 500B, Stauffer Aero-Safe 2300W and Chevron Hy-jet IV.

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

RQP5

SPECIALTY

SURVIVOR™
HIGH TEMPERATURE
POLYESTER BRAID COVER
ONE WIRE HOSE



INTRODUCTION

RECOMMENDED FOR:

Medium to High Pressure hydraulic oil applications or where resistance to phosphate ester** fluid is required. The small bend radius, temperature resistance and light weight of RYCO RQP5 hose make it suitable for under the bonnet automotive/trucking applications including hydraulic oil, diesel fuel, lubrication oil and transmission oil coolers. Sizes RQP54 to RQP512 also comply with SAE J1402 Type All "Automotive Air Brake Hose" for use in truck "air brake systems including flexible connections from frame to axle, tractor to trailer, trailer to trailer, and other unshielded air lines that are exposed to potential pull or impact". RQP5 may be used with compressed air if maximum working pressure is reduced by 30%. RQP5 hose is normally used where there is minimal abrasion to the outside cover. If abrasion is likely, support the hose away from the source of abrasion using mounting clamps, or protect with RWA Wire Armour or RSG Spiral Guard. RQP5 is a reduced bore hose. It has a similar Inside Diameter to steel or copper tubing of the same nominal (Outside Diameter) size. See page 6 for Branding Information.

PERFORMANCE:

Meets or Exceeds the Performance Requirements of: AS 3791 100R5, SAE 100R5, SAE J1402 Type All (up to -12 size).

TUBE:

Black, oil resistant synthetic rubber.

REINFORCEMENT:

Polyester inner braid covered with one braid of high tensile steel wire.

COVER:

Blue polyester braid. Skiving of cover is not required.

MSHA - FLAME RESISTANCE:

Meets Flame Resistant Designation "U.S. MSHA" of the US Department of Labor, Mine Safety and Health Administration and Flame Resistant requirements of Australian Standard AS 2660 and Method of Test AS 1180.10B when used with FS1072 Fire Sleeve.

TEMPERATURE RANGE:

From -40°C to +150°C (-40°F to +302°F).

**Not suitable for use with aerospace type phosphate esters such as Monsanto Skydrol 500B, Stauffer Aero-Safe 2300W and Chevron Hy-jet IV.

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

THIRD PARTY APPROVALS:

MED and USCG - Hydraulic and Fuel Systems, DoT.

COUPLINGS:



ONE PIECE CRIMP T4000



FIELD ATTACHABLE 6000 SERIES V000

BITELOK NON-SKIVE ONE-PIECE CRIMP

T4000 Series (Sizes -04 to -20)

FIELD ATTACHABLE NON-SKIVE 6000 Series (Sizes -04 to -32)

V000 Series (sizes -04 to -32)

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RQP5 - SURVIVOR POLYESTER COVER HOSE																				
PART NO	HOSE SIZE	NOMINAL HOSE ID	NOMINAL HOSE OD	MAXIMUM WORKING PRESSURE	MINIMUM BURST PRESSURE	MINIMUM BEND R SAE100R5	MINIMUM BEND R SAEJ1402	VACUUM RATING	AVERAGE WEIGHT	ONE PC CPLG	FIELD CPLG									
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mm	inch	inHg	mmHg	kg/m	lb/ft	NON-SKIVE	
RQP54	5	-04	4,8	3/16	13,2	0,52	210	3050	840	12200	75	3.0	51	2.0	0,23	0.15	710	28	T4000	V000
RQP55	6	-05	6,4	1/4	14,8	0,58	210	3050	840	12200	85	3.3	64	2.5	0,26	0.17	710	28	T4000	V000
RQP56	8	-06	7,9	5/16	17,2	0,68	155	2250	620	9000	100	4.0	76	3.0	0,30	0.20	710	28	T4000	V000
RQP58	10	-08	10,3	13/32	19,4	0,76	138	2000	552	8000	117	4.6	89	3.5	0,36	0.24	710	28	T4000	V000
RQP510	12	-10	12,7	1/2	23,4	0,92	121	1750	484	7000	140	5.5	102	4.0	0,53	0.36	710	28	T4000	V000
RQP512	16	-12	15,9	5/8	27,4	1,08	103	1500	414	6000	165	6.5	114	4.5	0,65	0.44	710	28	T4000	V000
RQP516	22	-16	22,2	7/8	31,4	1,24	55	800	221	3200	187	7.4			0,63	0.42	510	20	T4000	V000
RQP520	28	-20	31,0	1.1/8	38,1	1,50	43	625	172	2500	229	9.0			0,90	0.60	510	20	T4000	V000
RQP524	35	-24	32,0	1.3/8	44,5	1,75	35	500	140	2000	267	10.5			1,00	0.67	380	15		V000
RQP532	46	-32	45,0	1.13/16	56,3	2,22	24	350	98	1400	337	13.3			1,48	0.99	280	11		V000

***IMPORTANT NOTE:** MAXIMUM WORKING PRESSURE and MINIMUM BURST PRESSURE shown above relate to SAE 100R5 specifications and hose used in non-Air Brake applications. For Air Brake applications, SAE J1402 Type All Air Brake Hose specification requires Minimum Burst Pressure 900 psi (62,1 bar) and Proof Pressure of 300 psi (20,7 bar) for all sizes, and reduced Minimum Bend Radii as shown above. RQP54 to RQP512 comply with SAE J1402 Minimum Bend Radius at SAE J1402 pressures, and SAE 100R5 Minimum Bend Radius at SAE 100R5 working pressures. Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

RUBBER - SPECIALTY

RQP6

SPECIALTY

**SURVIVOR™ PUSH-ON
HIGH TEMPERATURE
ONE TEXTILE BRAID HOSE**



RECOMMENDED FOR:

Hydraulic oil lines, transmission oil cooler lines, glycol antifreeze solutions, water, diesel fuels and air.

PERFORMANCE:

Meets or Exceeds the Performance Requirements of: AS 3791 100R6, DIN 20021-1TE, ISO 4079 Type 1, SAE 100R6.

TUBE:

Black, oil resistant synthetic rubber.

REINFORCEMENT:

One textile braid.

COVER:

Blue, oil resistant and abrasion resistant synthetic rubber.

MSHA - FLAME RESISTANCE:

Meets Flame Resistance Designation "U.S. MSHA" of the US Department of Labor, Mine Safety and Health Administration. Complies with Flame Resistant requirement of Australian Standard AS 2660 and Method of Test AS 1180.10B.

TEMPERATURE RANGE:

Petroleum base hydraulic oils and transmission oils: -40°C to +135°C (-40°F to +275°F) constant, and up to +150°C (+302°F) intermittent (up to 10% of operating time).

Air: -40°C to +100°C (-40°F to +212°F)

Diesel fuels: -40°C to +71°C (-40°F to +160°F).

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

RQP6 Hose, and 800 Series Push-On Fittings, are recommended for use in systems with Static Working Pressures (constant loads without pressure spikes) only. They are not recommended for vibration or pressure surge applications. RQP6 Hose should not be used at both maximum working pressure and maximum temperature simultaneously.

TOLERANCES:

RYCO specification.

COUPLINGS:



ONE PIECE
CRIMP
T4000

BITELOK NON-SKIVE ONE-PIECE CRIMP

T4000 Series (Sizes -04 to -12)



PUSH ON
8000
SERIES

8000 SERIES PUSH-ON

RQP6 Hose simply pushes on to 800 Series Couplings, and for Static Working Pressures up to 50% of Maximum Static Working Pressures a clamp is not required. For diesel fuel and other potentially dangerous, or critical applications such as transmission oil cooler lines, and for Static Working Pressures above 50% of maximum; a clamp around the hose is required. Do not overtighten the clamp as this will damage the hose. Factory crimped couplings are also available in some sizes.

RQP6 - SURVIVOR HIGH TEMPERATURE PUSH ON HOSE																			
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		ONE PC CPLG	PUSH ON CPLG		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	inHg	mmHg	kg/m	lb/ft	NON-SK		
RQP64	6	-04	6,4	1/4	12,3	0,48	28	410	112	1640	65	2.5	710	28	0,12	0,08	T4000	8000	
RQP65	8	-05	7,9	5/16	13,9	0,55	28	410	112	1640	75	3.0	710	28	0,14	0,09	T4000	8000	
RQP66	10	-06	9,5	3/8	15,5	0,61	28	410	112	1640	75	3.0	635	25	0,17	0,11	T4000	8000	
RQP68	12	-08	12,7	1/2	19,0	0,75	28	410	112	1640	100	4.0	460	18	0,22	0,15	T4000	8000	
RQP610	16	-10	15,9	5/8	22,6	0,89	24	350	96	1400	125	5.0	380	15	0,29	0,19	T4000	8000	
RQP612	20	-12	19,1	3/4	25,8	1,02	21	305	84	1220	150	6.0	380	15	0,34	0,23	T4000	8000	

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

WGP

SPECIALTY

RYCO GREASE PROOF HOTWASH



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

An excellent hot washdown hose suitable to be used in most food processing plants ie dairy, meat, poultry, confectionery etc.

TUBE:

White NBR.

REINFORCEMENT:

Textile reinforced.

COVER:

Fat resistant White NBR.

FEATURES:

Heavy Duty multi-purpose hotwash with a fat resistant cover.

TEMPERATURE RANGE:

From -20°C to +90°C (-4°F to 194°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

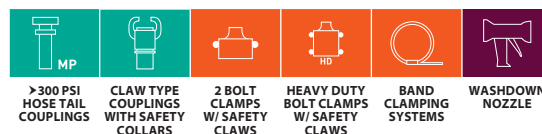
20 or 60 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.


 >300 PSI
HOSE TAIL
COUPLINGS

 CLAW TYPE
COUPLINGS
WITH SAFETY
COLLARS

 2 BOLT
CLAMPS
W/ SAFETY
CLAWS

 HEAVY DUTY
BOLT CLAMPS
W/ SAFETY
CLAWS

 BAND
CLAMPING
SYSTEMS

 WASHDOWN
NOZZLE

WGP RYCO GP HOTWASH														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
WGP8	12	-08	12,7	1/2	21.9	0.86	21	300	62	900	75	2.9	0,39	0.26
WGP12	19	-12	19,1	3/4	30.2	1.20	21	300	62	900	114	4.5	0,7	0.47
WGP16	25	-16	25,4	1	38.0	1.49	21	300	62	900	150	5.9	1,2	0.80

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

RUBBER - SPECIALTY

T1F

SPECIALTY

FIRE SUPPRESSION ONE WIRE BRAID HOSE

RYCO T1F FIRE SUPPRESSION



RECOMMENDED FOR:

Use in Fire Suppression Systems of off-road vehicles, mining equipment, stationary engines, etc. The hose is coloured red, for easy identification as part of the Fire Suppression System.

STANDARDS MET OR EXCEEDED:

Meets or Exceeds the Performance Requirements of: AS 3791 100R1AT, DIN 20022-1SN, EN 853 Type 1SN, ISO 1436 Types R1AT and 1SN, SAE 100R1AT.

TUBE:

Black, oil resistant synthetic rubber. Resistant to aqueous film forming foam, dry chemical powder, carbon dioxide, and water-based fire extinguishing agents.

REINFORCEMENT:

One braid of high tensile steel wire.

COVER:

Red, heat resistant, abrasion resistant and oil resistant rubber. Flame Resistant to Australian Standard AS 2660 and U.S. MSHA requirements. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings and K000 Series Field Attachable Couplings.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:

Complies with Flame Resistant requirements of Australian Standard AS 2660 and Method of Test AS 1180.10B
Meets Flame Resistant Designation "U.S. MSHA" of the US Department of Labor, Mine Safety and Health Administration.

TEMPERATURE RANGE:

From -40°C to +100°C (-40°F to +212°F).

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20 or 60 Metre.

TOLERANCES:

RYCO specification.

COUPLINGS:



ONE PIECE
CRIMP
T2000

**BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series** (sizes -03 to -16)



FIELD
ATTACHABLE
6000 SERIES
K000

**FIELD ATTACHABLE NON-SKIVE
6000 Series** insert (sizes -03 to -16)
K000 Series ferrule (sizes -03 to -16)

For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.

T1F - FIRE SUPPRESSION NON-SKIVE HOSE																	
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		ONE PIECE COUPLING	FIELD ATT COUPLING		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE		
T13F	5	-03	4,8	3/16	11,7	0,46	250	3600	1000	14500	89	3.5	0,19	0.13	T2000	6000 (K000)	
T14F	6	-04	6,3	1/4	13,3	0,52	225	3250	900	13000	100	3.9	0,22	0.15	T2000	6000 (K000)	
T15F	8	-05	7,9	5/16	14,9	0,59	215	3100	860	12400	114	4.5	0,25	0.17	T2000		
T16F	10	-06	9,5	3/8	17,3	0,68	180	2600	720	10400	127	5.0	0,31	0.21	T2000	6000 (K000)	
T18F	12	-08	12,7	1/2	20,3	0,80	160	2300	640	9200	178	7.0	0,39	0.26	T2000	6000 (K000)	
T110F	16	-10	15,9	5/8	23,6	0,93	130	1900	520	7600	200	7.9	0,49	0.33	T2000	6000 (K000)	
T112F	19	-12	19,1	3/4	27,6	1,09	105	1500	420	6000	240	9.5	0,62	0.41	T2000	6000 (K000)	
T116F	25	-16	25,4	1	35,5	1,40	90	1300	360	5200	300	11.8	0,90	0.60	T2000	6000 (K000)	

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

WT

SPECIALTY

RYCO TWINWELD RED AND BLUE



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Welding purposes.

TUBE:

Black SBR/NBR.

REINFORCEMENT:

High tensile synthetic yarn.

COVER:

Extruded red/blue EPDM/SBR - abrasion and ozone resistant.

FEATURES:

Excellent UV and abrasion resistant cover, with very good minimum bend radius characteristics.

TEMPERATURE RANGE:

From -30°C to +80°C (-22°F to 176°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

100 Metre.

TOLERANCES:

Refer to the Rubber Hose Manufacturing Tolerances listed in the Technical Section on page 253.

COUPLINGS:

Approved Oxy and Acetylene fittings.

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either the Hose, Fittings and Clamping method used.



WT RYCO TWINWELD RED AND BLUE														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
WT3	5	-03	4,8	3/16	12	0.47	20	300	60	900	57	2.2	0.31	0.21

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - AIR/WATER

PFAW/T

AIR/WATER

RYCO FRAS AIR/WATER
DELIVERY
SINGLE OR TWIN



RECOMMENDED FOR:

Underground air and water mining hose. RYCO PFAWT is also ideal for rockbolting. Fire resistant anti-static hose with unique 3 layer construction that offers optimum performance and handling characteristics.

RYCO PFAWT is a fire resistant anti-static twin hose with 12.5mm and 25 mm hoses permanently coupled together as one hose. Each hose has a unique 3 layer construction that offers optimum performance and handling characteristics.

STANDARDS MET OR EXCEEDED:

Manufactured to AS 2660 Class A (1991) and AS/NZS 2554 Class A.

TUBE:

Black flexible FRAS PVC.

REINFORCEMENT:

High strength synthetic braids.

COVER:

Yellow flexible PVC with two black FRAS strips.

FEATURES:

Fire resistant anti static hose with unique 3 layer construction that offers optimum performance and handling characteristics.

NOTE: PFAWT Twin Hose combines a PFAW 1/2 inch and PFAW 1 inch hose.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:

Complies with Flame Resistant and Electrical Resistance (Anti-Static) requirements of Australian Standard AS 2660 and Methods of Test AS 1180.10B and 13A. Meets Flame Resistant Designation "U.S. MSHA" of the US Department of Labor, Mine Safety and Health Administration.

TEMPERATURE RANGE:

From 0°C to +50°C (32°F to 122°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20, 30, or 100 Metre.

TOLERANCES:

Available on request.

COUPLINGS:

NOTE: Crimped assemblies must be Tested and Certified before use.



PFAW/T FRAS HOSE												
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lb/ft
PFAW6	10	-06	9,5	3/8	18,0	0.71	21	305	84	1220	0,25	0.17
PFAW8	12	-08	12,7	1/2	20,9	0.82	21	305	84	1220	0,26	0.17
PFAW12	19	-12	19,1	3/4	29,4	1.16	21	305	84	1220	0,58	0.40
PFAW16	25	-16	25,4	1	34,8	1.37	21	305	84	1220	0,71	0.48
PFAW24	38	-24	38,1	1.1/2	48,8	1.92	21	305	84	1220	1,19	0.80
PFAW32	51	-32	50,8	2	62,4	2.46	21	305	84	1220	1,80	1.21
PFAWT0816	12 25	-0816	12,7 25,4	1/2 1	20,9 34,8	0.82 1.37	21	305	84	1220	1,51	1.01

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

PAW

AIR/WATER
RYCO AIR/WATER
YELLOW/BLUE



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Suitable for general purpose air and water supply. Also suitable for the conveyance of liquids, gases and many chemicals. Ideal for High Pressure air lines and compressors.

General purpose air and water hose with a highly distinctive yellow and blue stripes, optimum flexibility, resilience and kink resistance.

STANDARDS MET OR EXCEEDED:

Exceeds AS/NZS 2554 Class B for burst pressure, wall thickness, abrasion resistance, weathering resistance, low temperature flexibility, ozone resistance and bond strength.

TUBE:

Black PVC.

REINFORCEMENT:

Textile braid.

COVER:

Yellow/blue PVC.

FEATURES:

Good flexibility and kink resistance.
Good oil and chemical resistance.
Excellent abrasion and UV resistance
Exceeds AS 2554 Class B.
Very visible smooth cover.

TEMPERATURE RANGE:

From 0°C to +50°C (+32°F to 122°F)

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

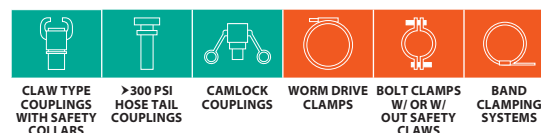
COIL LENGTHS:

20, 30, or 100 Metre and Reels.

TOLERANCES:

Available on request.

COUPLINGS:



PAW RYCO AIR/WATER YELLOW/BLUE												
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		AVERAGE WEIGHT	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lb/ft
PAW4	6	-04	6,4	1/4	12,8	0.50	20	290	80	1160	0,13	0.09
PAW5	8	-05	7,9	5/16	14,8	0.58	20	290	80	1160	0,16	0.11
PAW6	10	-06	9,5	3/8	16,6	0.65	20	290	80	1160	0,17	0.11
PAW8	12	-08	12,7	1/2	19,3	0.76	20	290	80	1160	0,19	0.13
PAW12	19	-12	19,1	3/4	29,0	1.14	16	230	64	920	0,45	0.30
PAW16	25	-16	25,4	1	34,6	1.36	16	230	64	920	0,62	0.42
PAW20	31	-20	31,8	1.1/4	42,9	1.69	16	230	64	920	1,15	0.77
PAW24	38	-24	38,1	1.1/2	50,6	1.99	16	230	64	920	1,56	1.05
PAW32	51	-32	50,8	2	63,0	2.48	16	230	64	920	2,40	1.61

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - AIR HOSE ASSEMBLY



PAW PVC AIR HOSE ASSEMBLIES WITH RYCO 200, 200S AND 400 SERIES AIRLINE FITTINGS

RYCO PAW AIR/WATER

PVC SAFETY FITTED AIR HOSE ASSEMBLIES

AS/NZS 2554 Class B for optimum performance

20 BAR/290 PSI

LOW TEMP FLEXIBILITY

KINK RESISTANT

HIGH BURST PRESSURE

ABRASION RESISTANT

- Fitted with safety adaptors to reduce noise and avoid dangerous hose whip when disconnecting the hose.
- RYCO quality connection couplings.
- Swaged end crimps for secure clamping.
- Yellow safety stripe and safety fittings for improved OH&S.

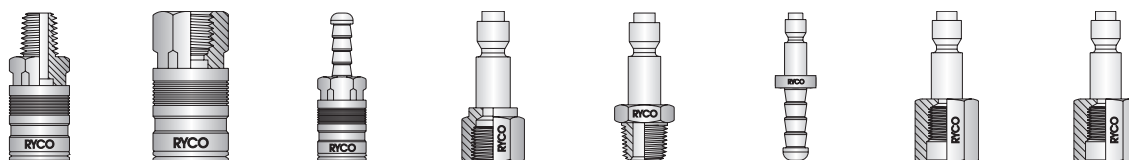


PART NUMBER	DESCRIPTION
PAW6-10M-HA2	-06 3/8" RYCO PVC Air Hose fitted with Type 200 (RYCO Style) Safety Fittings in 10 metre assembly
PAW6-20M-HA2	-06 3/8" RYCO PVC Air Hose fitted with Type 200 (RYCO Style) Safety Fittings in 20 metre assembly
PAW6-10M-HA4	-06 3/8" RYCO PVC Air Hose fitted with Type 400 (NITTO/Japanese Style) Safety Fittings in 10 metre assembly
PAW6-20M-HA4	-06 3/8" RYCO PVC Air Hose fitted with Type 400 Safety (NITTO/Japanese Style) Fittings in 20 metre assembly

NOTE: Other custom length hose assemblies are made against specific customer orders that meet our Minimum Order Terms and Conditions. Please refer to your RYCO Customer Service representative for details.

200 AND 200S SERIES – RYCO STYLE AIRLINE FITTINGS

AIRLINE COUPLINGS				MATCHED CONNECTORS		CORROSION RESISTANCE	LONG LASTING	HARD WEARING	HARDENED SLEEVE	SELF LOCKING	ONE TOUCH OPERATION	HEAVY DUTY	INDUSTRIAL STRENGTH	BRASS VLAVE	STEEL COUPLING
SERIES	BODY	FLOW RATE		200	200S										
200	BRASS	60	1700	200		✓	✓	✓							
200S	STEEL	60	1700		200S		✓	✓	✓						



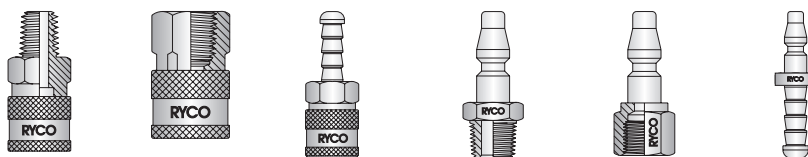
THREAD/ BARB	AUTOMATIC COUPLINGS						COUPLING NIPPLES						SCHRADER	
	BSPT MALE BRASS STEEL		BSPP FEMALE BRASS STEEL		HOSE BARB BRASS STEEL		BSPP FEMALE BRASS STEEL		BSPT MALE BRASS STEEL		HOSE BARB BRASS STEEL		SHORT BRASS	LONG BRASS
	PART NO													
1/8							255			204				
3/16												256		
1/4	201	201S	200	200S	245	245S	203	203S	202	202S	205	205S		
5/16					240	240S					206	206S		
3/8	244	244S	243	243S	241	241S		266S		251S	206A	206AS		
1/2								270S		252S		254S		
SCHR*													217	217A

NOTE: *SCHR refers to Schrader.

400 SERIES – NITTO/JAPANESE STYLE AIRLINE FITTINGS

AIRLINE COUPLINGS				MATCHED CONNECTORS		CORROSION RESISTANCE	LONG LASTING	HARD WEARING	HARDENED SLEEVE	SELF LOCKING	ONE TOUCH OPERATION	HEAVY DUTY	INDUSTRIAL STRENGTH	BRASS VLAVE	STEEL COUPLING
SERIES	BODY	FLOW RATE		400	400*										
400*	STEEL	90	2500	400*			✓	✓	✓						✓

NOTE: *400 Series AIRLINE Couplings cross references with Nitto/Japanese couplings.



THREAD/ BARB	AUTOMATIC COUPLINGS			COUPLING NIPPLES		
	BSPT MALE STEEL	BSPT FEMALE STEEL	HOSE BARB STEEL	BSPT MALE STEEL	BSPT FEMALE STEEL	HOSE BARB STEEL
	PART NO					
1/8				410PM	410PF	
1/4	420SM	420SF	420SH	420PM	420PF	420PH
5/16			425SH			425PH
3/8	430SM	430SF	430SH	430PM	430PF	430PH
1/2	440SM	440SF	440SH	440PM	440PF	440PH
SCHL*					417A	

NOTE: *SCHL refers to Schrader-Long.

INTRODUCTION
HOSE
COUPLINGS
ADAPTORS
CLAMPS
ACCESSORIES
TECHNICAL

HOSE

PVC - AIR/WATER

PCW

AIR/WATER

RYCO COLD WASHDOWN



RECOMMENDED FOR:

All commercial parks, gardens and turf watering applications. Ideal as a general cold water wash-down hose in cattle yards and dairies.

Highly flexible premium hose for watering parks and gardens. With high visibility and two distinctive blue stripes, it is kink, burst and UV light resistant.

TUBE:

Black PVC.

REINFORCEMENT:

Textile braid.

COVER:

White PVC.

FEATURES:

Good flexibility and kink resistance.
 General purpose chemical resistance.
 Excellent abrasion and UV resistance.
 Excellent washdown and ideal for mobile sprinkler use.
 Very visible ribbed cover.

TEMPERATURE RANGE:

From -5°C to +55°C (23°F to +131°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

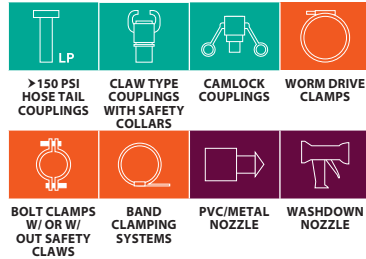
COIL LENGTHS:

20, 30, 60, 80 or 100 Metre and Reels.

TOLERANCES:

Available on request.

COUPLINGS:



PCW RYCO COLD WASHDOWN												
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lb/ft
PCW8	12	-08	12,7	1/2	19,0	0.75	10	145	40	580	0.22	0.15
PCW12	19	-12	19,1	3/4	26,5	1.04	10	145	40	580	0.40	0.27
PCW16	25	-16	25,4	1	34,0	1.34	10	145	40	580	0.58	0.40
PCW20	31	-20	31,8	1.1/4	42,0	1.65	10	145	40	580	0.85	0.57
PCW24	38	-24	38,1	1.1/2	49,5	1.95	10	145	40	580	1.11	0.75

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

MDW/MDWH

AIR/WATER

RYCO MINE DEWATERING
RYCO MINE DEWATERING HD
LAYFLAT

RECOMMENDED FOR:

High Pressure Heavy Duty mine dewatering.

TUBE:

Polyurethane.

REINFORCEMENT:

Polyester woven jacket.

COVER:

Polyurethane.

FEATURES:

Ultra tough layflat.

Maximum abrasion and excellent chemical resistance.

Excellent UV resistance.

Smooth bore for minimal friction loss.

Light weight.

Suitable for air/water/slurries.

Long lengths of 100 metres+ available on request.

TEMPERATURE RANGE:

From -40°C to 70°C (-40°F to 178°F).

WORKING PRESSURE:

Maximum working pressures are based on a 2:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

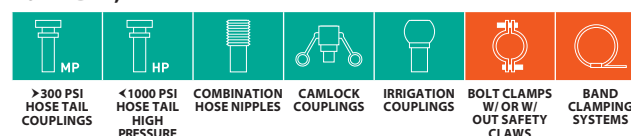
100 Metre.

TOLERANCES:

Available on request.

COUPLINGS:

For MDW;



For MDWH;



MDW/MDWH DEWATERING LAYFLAT								
PART NO	HOSE SIZE		NOMINAL HOSE ID		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE	
Hose	DN	Dash	mm	inch	bar	psi	bar	psi
MDW24	38	-24	38,0	1.1/2	19	275	38	560
MDW32	51	-32	51,0	2	22	320	45	660
MDW40	63	-40	63,5	2.1/2	20	290	41	600
MDW48	75	-48	76,0	3	17	250	35	510
MDW56	89	-56	89,0	3.1/2	17	250	35	510
MDW64	100	-64	102,0	4	16	230	33	480
MDW80	115	-80	114,3	4.1/2	20	290	40	590
MDW96	150	-96	152,4	6	14	200	27	400
MDW128	200	-128	203,0	8	13	190	25	350
MDWH32	51	-32	51,0	2	27	390	54	780
MDWH48	75	-48	76,0	3	27	390	54	780
MDWH64	100	-64	102,0	4	25	360	50	720
MDWH96	150	-96	152,4	6	22	320	44	640
MDWH128	200	-128	203,0	8	18	260	35	510

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

HOSE

PVC - AIR/WATER

PLB

AIR/WATER

RYCO LAYFLAT BLUE

RECOMMENDED FOR:

Suitable for irrigation or drainage, washdown, water supply for construction sites or general dewatering.

TUBE:

PVC compound.

REINFORCEMENT:

High strength yarn.

FEATURES:

UV stabilised and medium abrasion resistance.
 Suitable for general purpose pump delivery applications - construction, councils, plumbers etc.
 Excellent for market garden irrigation applications.
 Minimal snaking while under pressure.
 Good external cover protection over general hoses.

TEMPERATURE RANGE:

From -20°C to +55°C. (-4°F to +131°F).

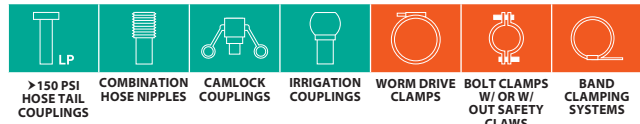
COIL LENGTHS:

100 metre.

TOLERANCES:

Available on request.

COUPLINGS:



PLB RYCO LAYFLAT BLUE										
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	kg/m	lb/ft
PLB16	25	-16	25	1	28,0	1.10	7	100	0,16	0.11
PLB20	32	-20	32	1.1/4	35,0	1.38	7	100	0,20	0.13
PLB24	40	-24	40	1.1/2	42,5	1.67	5	73	0,20	0.13
PLB32	50	-32	50	2	52,6	2.07	4.5	65	0,27	0.18
PLB40	65	-40	65	2.1/2	68,0	2.68	4	58	0,38	0.25
PLB48	75	-48	75	3	78,4	3.08	3.5	58	0,53	0.35
PLB64	100	-64	100	4	103,5	4.07	3	58	0,70	0.47
PLB80	125	-80	125	5	128,7	5.07	3	44	0,93	0.62
PLB96	150	-96	150	6	153,9	6.06	3	44	1,17	0.78
PLB128	200	-128	200	8	204,4	8.05	3	44	1,78	1.19
PLB160	250	-160	250	10	255,3	10.05	2.5	36	2,65	1.78
PLB192	300	-192	300	12	305,0	12.01	2	30	2,91	1.95
PLB224	350	-224	350	14	355,0	13.98	2	30	3,65	2.45
PLB256	400	-256	400	16	405,4	15.96	2	30	4,28	2.87

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

PLR

AIR/WATER

RYCO LAYFLAT RED HEAVY DUTY



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Dewatering pits, building sites, dams, mines and quarries.
Also suitable for pumping more abrasive slurries.

TUBE:

PVC compound.

REINFORCEMENT:

High strength yarn.

COVER:

PVC compound.

FEATURES:

UV stabilised and medium abrasion resistance.
Suitable for general purpose pump delivery applications -
construction, councils, plumbers etc.
Excellent for market garden irrigation applications.
Minimal snaking while under pressure.
Good external cover protection over general hoses.

TEMPERATURE RANGE:

From -20°C to +55°C. (-4°F to +131°F).

COIL LENGTHS:

100 metre.

TOLERANCES:

Available on request.

COUPLINGS:


PLR RYCO LAYFLAT RED HEAVY DUTY		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		AVERAGE WEIGHT		
PART NO	HOSE SIZE	mm	inch	mm	inch	bar	psi	kg/m	lb/ft	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	kg/m	lb/ft
PLR24	40	-24	40	1.1/2	45,8	1.80	10	150	0,29	0.19
PLR32	50	-32	50	2	54,1	2.13	10	150	0,42	0.28
PLR40	65	-40	65	2.1/2	69,3	2.73	10	150	0,54	0.36
PLR48	75	-48	75	3	79,5	3.13	9	130	0,66	0.44
PLR64	100	-64	100	4	105,1	4.14	9	130	1,00	0.67
PLR96	150	-96	150	6	155,9	6.14	7	100	1,68	0.13
PLR128	200	-128	200	8	205,9	8.11	5	75	2,20	1.48

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - AIR/WATER

PFR

AIR/WATER
FIRE REEL



RECOMMENDED FOR:

Stationary or mobile hose reels in fire control systems located in commercial or public buildings. Also an excellent general purpose water delivery hose.

The hose is lightweight, flexible, resistant to UV light and has self-extinguishing properties.

STANDARDS MET OR EXCEEDED:

Manufactured to AS/NZS 1221.

TUBE:

Smooth black PVC.

REINFORCEMENT:

Textile.

COVER:

Ribbed black PVC.

FEATURES:

Light weight and flexible General Purpose PVC water hose.

Ribbed cover for good abrasion resistance.

Good UV resistance.

Excellent range of standard coil lengths.

Excellent PVC Fire Reel hose.

TEMPERATURE RANGE:

From 0°C to 50°C (+32°F to +122°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

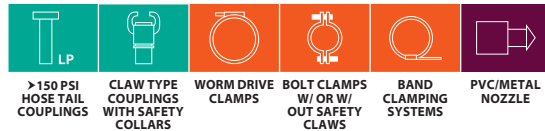
COIL LENGTHS:

20, 30, 36, 50 or 100 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



PFR FIRE REEL												
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lb/ft
PFR12	19	-12	19,1	3/4	26,0	1.02	10	145	40	580	0,36	0.24
PFR16	25	-16	25,4	1	34,2	1.35	10	145	40	580	0,45	0.30

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

PGPW

AIR/WATER
RYCO GENERAL PURPOSE WATER



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

General domestic and commercial use.

A premium quality, Higher Pressure Heavy Duty garden hose with excellent flexibility and kink resistance. With its higher quality construction and excellent resistance to UV light, the hose can be expected to give outstanding service for many years.

TUBE:

Smooth translucent (green) flexible PVC.

REINFORCEMENT:

Textile braid.

COVER:

Smooth translucent flexible PVC.

FEATURES:

Excellent general purpose water hose.
Premium long lasting garden hose.
Excellent flexibility and kink resistance.
Excellent UV and abrasion resistance.
Excellent for water supply to concrete cutting equipment.

TEMPERATURE RANGE:

From -20°C to +55°C (-4°F to +131°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

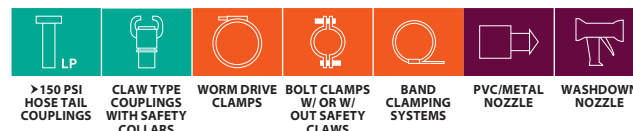
COIL LENGTHS:

20, 30 or 100 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



PGPW RYCO GENERAL PURPOSE WATER												
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lb/ft
PGPW8	12	-08	12,7	1/2	16,5	0.65	8	120	32	480	0,22	0.15
PGPW12	19	-12	19,1	3/4	24,5	0.96	8	120	32	480	0,32	0.21
PGPW16	25	-16	25,4	1	31,0	1.22	8	120	32	480	0,40	0.27

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - AIR/WATER

PSG

AIR/WATER

RYCO GREY GP WATER
SUCTION AND DELIVERY



RECOMMENDED FOR:

A tough, flexible and easy to handle suction and delivery hose for the transfer of water, slurry, sludge, waste matter, sand and gravel and general purpose applications.

TUBE AND COVER:

Flexible PVC.

REINFORCEMENT:

Rigid PVC spiral.

FEATURES:

25% more flexible than standard Heavy Duty Grey Suction hose.

Excellent abrasion resistance.

Suitable for some chemical applications.

Ideal construction site and plumbers Heavy Duty PVC Suction Hose.

TEMPERATURE RANGE:

From -5°C to 60°C (+23°F to +140°F).

COIL LENGTHS:

20 Metre.

TOLERANCES:

Available on request.

COUPLINGS:

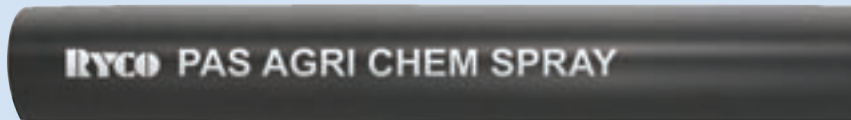


PSG GREY GP WATER SUCTION														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING @ 20°C		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
PSG16	25	-16	25,4	1	31,4	1.24	7	100	90	3.5	760	30	0,36	0.24
PSG20	31	-20	31,8	1.1/4	38,6	1.52	7	100	120	4.7	760	30	0,49	0.33
PSG24	38	-24	38,1	1.1/2	45,6	1.79	6	85	150	5.9	760	30	0,61	0.41
PSG28	44	-28	44,5	1.3/4	52,6	2.07	6	85	180	7.1	760	30	0,81	0.54
PSG32	51	-32	50,8	2	59,6	2.35	5	70	200	7.9	760	30	1,00	0.67
PSG40	63	-40	63,5	2.1/2	73,3	2.88	5	70	250	9.8	760	30	1,27	0.85
PSG48	76	-48	76	3	88,0	3.46	4	55	330	13.0	760	30	2,03	1.36
PSG64	102	-64	101,6	4	116,0	4.57	4	55	470	18.5	760	30	2,98	2.00
PSG80	127	-80	127,0	5	142,0	5.59	4	55	590	23.2	760	30	3,65	2.45
PSG96	152	-96	152,4	6	170,0	6.69	4	55	800	31.5	760	30	5,10	3.43

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

PAS

CHEMICAL/ACID
RYCO AGRI CHEM SPRAY



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Transferring diluted weedicides, pesticides in general agricultural and horticultural applications.

A general purpose agricultural spray and chemical hose for Medium Pressures. Lower cost but still has superior resistance to solvents and longer life.

TUBE:

PVC Nitrile.

REINFORCEMENT:

Textile braid reinforcement.

COVER:

PVC Nitrile.

FEATURES:

- Low cost.
- Superior resistance to solvents.
- Long life.
- Excellent flexibility and kink resistance.
- Suitable for most pest control applications.

TEMPERATURE RANGE:

From 0°C to +50°C (+32°F to 122°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

PAS6 - PAS8: 30, 100, 200 Metre.
PAS12 - PAS16: 30, 100 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



PAS RYCO AGRI CHEM SPRAY												
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lb/ft
PAS6	10	-06	9,5	3/8	16,4	0.64	21	305	84	1220	0,19	0.13
PAS8	12	-08	12,7	1/2	19,0	0.75	21	305	84	1220	0,22	0.15
PAS12	19	-12	19,1	3/4	27,5	1.08	21	305	84	1220	0,42	0.28
PAS16	25	-16	25,4	1	35,4	1.39	21	305	84	1220	0,53	0.36

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - FOOD/BEVERAGE

PSR

FOOD/BEVERAGE
RYCO RED WINE
SUCTION AND DELIVERY



RECOMMENDED FOR:

Heavy Duty flexible food quality PVC suction/discharge hose reinforced with a rigid spiral. Has a smooth bore to minimise flow losses and is UV light resistant.

Suitable for the wine, canning and food packaging industries. It can be used for the suction of wine and spirits up to 28 1/4 proof.

The smooth bore enables easy cleaning and reduces bacteria buildup.

STANDARDS MET OR EXCEEDED:

Australian Standard AS 2070, European Standard EU 2002-72-EC, certified phenol-free.

TUBE AND COVER:

Flexible clear PVC.

REINFORCEMENT:

Rigid red PVC spiral.

FEATURES:

Excellent chemical and abrasion resistance.

Mirror smooth bore for sanitation requirements.

For all beverages including wine and beer.

Good flexibility and strength.

Excellent UV resistance.

TEMPERATURE RANGE:

From -5°C to +60°C (+23°F to +140°F).

COIL LENGTHS:

20 Metre.

TOLERANCES:

Available on request.

COUPLINGS:







Hygienic industry standard couplings.

Also suitable for BSM, CIP, Triclover style fittings.

SS Hose Tail Fittings

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either Hose, Fittings and Clamping methods used.



PSR RYCO RED WINE SUCTION														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING @ 20°C		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
PSR16	25	-16	25,4	1	34,0	1.34	7	100	160	6.3	760	30	0,60	0.40
PSR20	31	-20	31,8	1.1/4	41,0	1.61	7	100	190	7.5	760	30	0,71	0.48
PSR24	38	-24	38,1	1.1/2	48,0	1.89	6	85	230	9.0	760	30	0,82	0.55
PSR32	51	-32	50,8	2	62,0	2.44	5	75	290	11.4	760	30	1,20	0.81
PSR40	63	-40	63,5	2.1/2	76,0	2.99	5	75	360	14.2	760	30	1,73	1.16
PSR48	76	-48	76,2	3	90,0	3.54	5	75	450	17.7	760	30	2,29	1.54
PSR64	102	-64	101,6	4	117,0	4.60	4	60	640	25.2	760	30	3,33	2.24
PSR80	127	-80	127,0	5	143,0	5.63	4	60	900	35.4	760	30	4,58	3.08
PSR96	152	-96	152,4	6	170,0	6.70	3.5	50	1200	47.2	760	30	6,75	4.53

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

PSP

FOOD/BEVERAGE
RYCO CLEAR SPIRAL
SUCTION AND DELIVERY



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Pressure or suction of any liquid or semi liquid that requires a food grade hose. Included are wineries, milk processing plants or tankers. Can be used with wine and spirits to 28 1/4 proof.

Specifically designed to outperform all other hoses in the beverage industry. It is both a suction and pressure hose in one. It is UV light resistant, conforms to AS 2070 and EU 2022-72-EC for use with food products, and uses a plastic helix that will not rust or cut the hands of operators.

STANDARDS MET OR EXCEEDED:

Australian Standard AS 2070, European Standard EU 2002-72-EC, certified phenol free.

TUBE:

Flexible clear PVC wall.

REINFORCEMENT:

Rigid Clear PVC spiral and textile braid.

COVER:

Flexible clear PVC wall.

FEATURES:

- Excellent chemical and abrasion resistance.
- Excellent flexibility.
- UV resistant.
- Smooth internal tube for sanitation requirements.
- Good chemical resistance.

TEMPERATURE RANGE:

From -5°C to +60°C (+23°F to +140°F).

COIL LENGTHS:

20 Metre.

TOLERANCES:

Available on request.

COUPLINGS:

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either Hose, Fittings and Clamping methods used.



PSP RYCO CLEAR SPIRAL SUCTION														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING @ 20°C		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
PSP16	25	-16	25,4	1	35,4	1.39	12	175	130	5.1	760	30	0,68	0.45
PSP24	38	-24	38,1	1.1/2	49,9	1.96	12	175	220	8.6	760	30	1,01	0.68
PSP32	51	-32	50,8	2	64,4	2.53	10	145	300	11.8	760	30	1,67	1.12
PSP48	76	-48	76,2	3	92,4	3.64	10	145	490	19.3	760	30	2,57	1.73

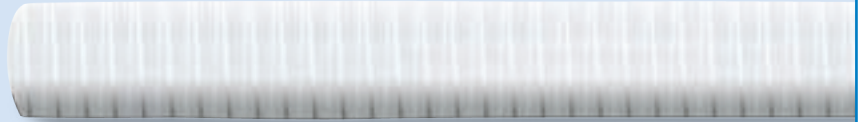
Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - FOOD/BEVERAGE

PSW

FOOD/BEVERAGE
RYCO WHITE FOOD
SUCTION AND DELIVERY



RECOMMENDED FOR:

Suitable for the tanker delivery of milk, other dairy products, drinking water, wine and other food products. The smooth bore enables easy cleaning and reduces bacteria buildup.

A general purpose suction/discharge hose for the transfer of food products, including beer, wine, drinking water and milk. Resistant to chemicals used in cleaning and is UV light resistant.

TUBE:

Clear flexible PVC wall.

REINFORCEMENT:

Rigid white PVC spiral.

COVER:

Clear flexible PVC wall.

FEATURES:

Good flexibility and strength.

Mirror smooth bore for sanitation requirements.

For milk, dairy products, and all other beverages and foodstuffs.

Excellent UV resistance.

Good cleaning chemical resistance.

TEMPERATURE RANGE:

From -5°C to +60°C (+23°F to +140°F).

COIL LENGTHS:

20 Metre.







TOLERANCES:

Available on request.

COUPLINGS:

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either Hose, Fittings and Clamping methods used.



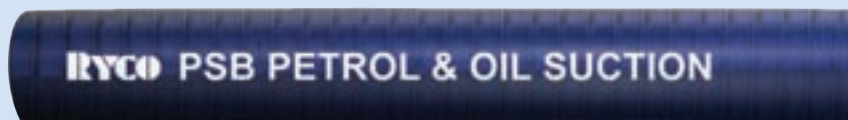
PSW RYCO WHITE FOOD SUCTION														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
PSW16	25	-16	25,4	1	32,0	1.26	7	100	120	4.7	760	30	0,41	0.27
PSW20	32	-20	31,8	1.1/4	39,0	1.53	7	100	150	5.9	760	30	0,52	0.35
PSW24	38	-24	38,1	1.1/2	46,2	1.82	6	85	200	7.8	760	30	0,68	0.46
PSW32	51	-32	50,8	2	60,0	2.36	5	75	270	10.6	760	30	1,02	0.68
PSW40	63	-40	63,5	2.1/2	74,3	2.92	5	75	330	13.0	760	30	1,40	0.94
PSW48	76	-48	76,2	3	89,0	3.50	4	60	440	17.3	760	30	2,01	1.35
PSW64	102	-64	101,6	4	116,0	4.57	4	60	620	24.4	760	30	3,06	2.06

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

PSB

FUEL/OIL

RYCO BLUE PETROL AND OIL SUCTION AND DELIVERY



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Collection of waste on environmental waste trucks, pumping the contents of grease pits, sewage collection, pumping of fuels, lubricants and most chemicals.

Medium Duty flexible PVC suction/discharge hose. Good resistance to chemicals and oil. Highly flexible at low temperatures and a mirror smooth bore for pumping efficiency.

TUBE:

Blue flexible PVC wall.

REINFORCEMENT:

Rigid PVC spiral.

COVER:

Blue flexible PVC wall.

FEATURES:

Excellent chemical resistance and flexibility.

TEMPERATURE RANGE:

From -5°C to +60°C (+23°F to +140°F).

COIL LENGTHS:

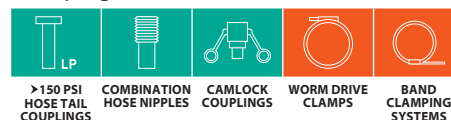
20 Metre.

TOLERANCES:

Available on request.

COUPLINGS:

NOTE: Any assemblies manufactured would be rated to the lesser working pressure of either Hose, Fittings and Clamping methods used.



PSB RYCO BLUE PETROL AND OIL SUCTION														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
PSB12	19	-12	19,1	3/4	32,0	1.26	10	145	65	2.6	760	30	0,41	0.27
PSB16	25	-16	25,4	1	39,0	1.53	9	130	100	3.9	760	30	0,54	0.36
PSB20	31	-20	31,8	1.1/4	46,2	1.82	9	130	150	5.9	760	30	0,70	0.47
PSB24	38	-24	38,1	1.1/2	60,0	2.36	7	100	190	7.5	760	30	1,07	0.72
PSB32	51	-32	50,8	2	74,1	2.92	6	85	230	9.0	760	30	1,50	1.01
PSB40	63	-40	63,5	2.1/2	89,0	3.50	6	85	330	13.0	760	30	2,25	1.51
PSB48	76	-48	76,2	3	116,0	4.57	5	75	520	20.5	760	30	3,04	2.04

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - FUEL/OIL

PDP

FUEL/OIL
RYCO DRUM PUMP



RECOMMENDED FOR:

Dispensing fuels from overhead tanks and drums.

Petrol and oil resistant hose with excellent flexibility. The PVC/Nitrile blend inner tube is highly resistant to hydrocarbons including aromatics. Excellent resistance to UV light ensures a long life. Good low temperature flexibility.

The 25 mm hose includes twin antistatic copper wires for increased safety when used to transfer volatile solvents.

TUBE:

Black PVC Nitrile.

REINFORCEMENT:

Textile braid with twin anti-static copper wires.

COVER:

Black PVC.

FEATURES:

Petrol, oil and kerosene resistant.

Low temperature flexibility.

UV Resistant.

Anti-static for transfer of volatile solvents and fuels.

Drum and tank transfer.

TEMPERATURE RANGE:

From -15°C to +50°C (+59°F to +122°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20, 60 or 100 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



PDP DRUM PUMP												
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lb/ft
PDP12	19	-12	19,1	3/4	27,0	1.06	10	145	40	580	0,36	0.24
PDP16	25	-16	25,4	1	33,5	1.32	10	145	40	580	0,55	0.37

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

PPA

FUEL/OIL

RYCO PETROL RESISTANT ANTISTATIC



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Dispensing oil, greases, petrol (including unleaded), diesel and home heating fuel. Ideal as a tanker delivery hose.

A superior petrol resistant hose with a Blue PVC/Nitrile blend inner tube for excellent resistance to unleaded fuels.

All sizes incorporate twin copper anti-static wires for added safety.

TUBE:

Black PVC Nitrile.

REINFORCEMENT:

Textile braid with twin anti-static copper wires.

COVER:

Black PVC.

FEATURES:

Petrol, oil and kerosene resistant.

Low temperature flexibility.

UV resistant.

Anti-static for transfer of volatile solvents and fuels.

Diesel, oil and fuel transfer.

TEMPERATURE RANGE:

From -15°C to +50°C (+59°F to +122°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20, 40, 60, or 100 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



>150 PSI
HOSE TAIL
COUPLINGS

CAMLOCK
COUPLINGS

WORM DRIVE
CLAMPS

HEAVY DUTY
ONE BOLT
CLAMP

BAND
CLAMPING
SYSTEMS

USE ONLY
APPLICATION
APPROVED
FITTING

PPA RYCO PETROL RESISTANT ANTISTATIC												
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lb/ft
PPA16	25	-16	25,4	1	34,0	1.34	13	193	53	772	0,60	0.40
PPA20	31	-20	31,8	1.1/4	42,0	1.65	12	175	48	700	0,80	0.54
PPA24	38	-24	38,1	1.1/2	52,4	2.06	10	145	40	580	1,20	0.80

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

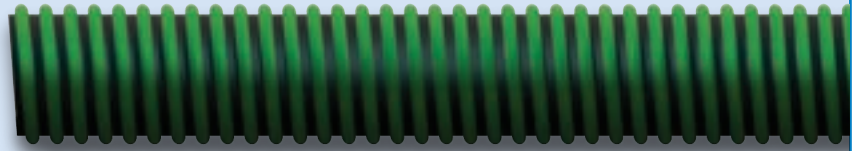
HOSE

PVC - MATERIAL HANDLING

PSAR

MATERIAL HANDLING

RYCO ABRASION RESISTANT
SUCTION AND DELIVERY



RECOMMENDED FOR:

Pumping slurries, air seeder machines, industrial/commercial vacuum cleaning.

A Heavy Duty suction/discharge hose especially formulated to be hard wearing and resistant to abrasion. A flexible thick PVC/Nitrile blend with an external rigid PVC spiral results in a hose with exceptional wear resistance, both inside and out, and flexibility for ease of use.

TUBE:

PVC Nitrile blend.

REINFORCEMENT:

Rigid PVC spiral.

COVER:

Green corrugated spiral.

FEATURES:

Excellent chemical and abrasion resistance, weathering properties and flexibility.

TEMPERATURE RANGE:

From -5°C to +60°C (+23°F to +140°F).

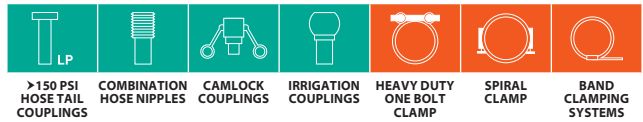
COIL LENGTHS:

10 or 20 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



PSAR RYCO ABRASION RESISTANT SUCTION														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
PSAR20	31	-20	31,8	1.1/4	40,5	1.59	3	45	250	9.8	600	24	0,55	0.37
PSAR24	38	-24	38,1	1.1/2	48,4	1.90	3	45	280	11.0	600	24	0,65	0.44
PSAR28	44	-28	44,5	1.3/4	57,0	2.24	3	45	310	12.2	600	24	0,75	0.50
PSAR32	51	-32	50,8	2	63,0	2.48	3	45	350	13.8	600	24	0,88	0.59
PSAR40	63	-40	63,5	2.1/2	79,0	3.11	3	45	370	14.6	600	24	1,34	0.90
PSAR48	76	-48	76,2	3	92,5	3.64	3	45	400	15.7	600	24	1,60	1.07
PSAR64	102	-64	101,6	4	118,0	4.64	3	45	500	19.7	600	24	2,40	1.61
PSAR80	127	-80	127,0	5	149,8	5.89	3	45	550	21.6	600	24	4,75	3.19
PSAR96	152	-96	152,4	6	174,0	6.85	3	45	600	23.6	600	24	5,96	4.00
PSAR128	203	-128	203,2	8	225,0	8.86	3	45	650	25.6	600	24	7,55	5.07

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

USAR

MATERIAL HANDLING

RYCO URETHANE
ABRASION RESISTANT
SUCTION AND DELIVERY



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

An extremely flexible hose with outstanding abrasion resistance due to the inclusion of urethane rubber. The latest and best hose for seeding equipment, soil and rock removal on vacuum diggers and street sweepers and any particulate collection in extreme environments.

TUBE:

Urethane.

REINFORCEMENT:

Rigid PVC spiral.

COVER:

Urethane.

FEATURES:

Excellent chemical and abrasion resistance, weathering properties and flexibility.

TEMPERATURE RANGE:

From -5°C to +60°C (+23°F to +140°F).

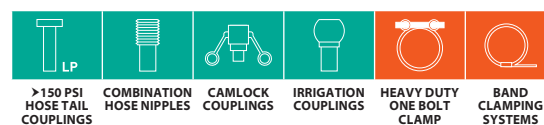
COIL LENGTHS:

10 or 20 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



USAR RYCO URETHANE AR SUCTION														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
USAR20	31	-20	31,8	1.1/4	40,5	1.59	3	45	250	9.8	600	24	0,39	0.26
USAR24	38	-24	38,1	1.1/2	48,0	1.89	3	45	310	12.2	600	24	0,45	0.30
USAR32	51	-32	50,8	2	61,0	2.40	3	45	350	13.8	600	24	0,76	0.51
USAR40	63	-40	63,5	2.1/2	77,0	3.03	3	4	370	14.6	600	24	1,46	0.98
USAR48	76	-48	76,2	3	91,0	3.58	3	45	400	15.7	600	24	1,77	1.20
USAR64	102	-64	101,6	4	118,0	4.64	3	45	500	19.7	600	24	3,48	2.34
USAR80	127	-80	127,0	5	149,0	5.86	3	45	550	21.6	600	24	5,70	3.83
USAR96	152	-96	152,4	6	172,0	6.77	3	45	600	23.6	600	24	6,63	4.45
USAR128	203	-128	203,0	8	227,0	8.93	3	45	650	25.6	600	24	10,59	7.12

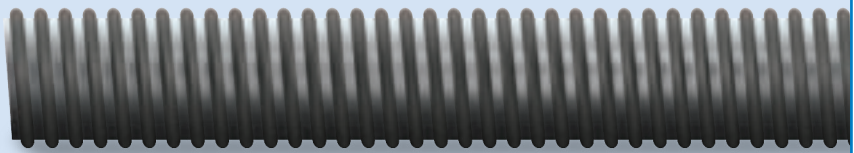
Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - MATERIAL HANDLING

PCAS

MATERIAL HANDLING
RYCO CLEAR AIRSEEDER



RECOMMENDED FOR:

Suitable for primary, secondary and tertiary lines on air seeder machines.

A Medium Duty flexible PVC suction/discharge hose reinforced with a black spiral. It has a mirror smooth bore to minimise friction losses and is UV light stabilised.

TUBE:

Clear flexible PVC wall.

REINFORCEMENT:

Black rigid PVC spiral.

COVER:

Clear flexible PVC wall.

FEATURES:

Excellent abrasion resistance and flexibility.
Mirror smooth bore minimising friction.
UV stabilised.
Seed, grain or fertiliser transfer use.

TEMPERATURE RANGE:

From -5°C to +60°C (+23°F to +140°F).

COIL LENGTHS:

20 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



PCAS RYCO CLEAR AIRSEEDER														
PART NO	HOSE SIZE	NOMINAL HOSE ID	NOMINAL HOSE OD	MAXIMUM WORKING PRESSURE	MINIMUM BEND RADIUS	VACUUM RATING	AVERAGE WEIGHT							
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
PCAS16	25	-16	25,4	1	31,4	1.24	8	116	120	4.7	600	24	0,34	0.23
PCAS20	31	-20	31,8	1.1/4	38,4	1.51	7	102	150	5.9	600	24	0,47	0.31
PCAS24	38	-24	38,1	1.1/2	45,4	1.79	6	87	200	7.8	600	24	0,62	0.42
PCAS28	44	-28	44,5	1.3/4	52,0	2.05	6	79	240	9.4	600	24	0,70	0.47
PCAS32	51	-32	50,8	2	60,0	2.36	5	72	300	11.8	600	24	0,93	0.62
PCAS40	63	-40	63,5	2.1/2	73,8	2.90	5	72	400	15.7	600	24	1,43	0.96
PCAS48	76	-48	76,2	3	87,4	3.44	4	58	450	17.7	600	24	2,02	1.36

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

TMH

MATERIAL HANDLING
EPDM A/R CORRUGATED



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

RYCO TMH hose is used for a variety of abrasive, material-handling applications to transfer sand, gravel, cement, fly ash, glass, metals, plastic pellets, fertilisers, rock salts and slurries.

TUBE:

Thermoplastic alloyed blend of polyurethane and PVC (static dissipating/static conductive).

REINFORCEMENT:

Rigid high-density PVC helix.

COVER:

Thermoplastic alloyed blend of nitrile, polyurethane and PVC (non-conductive) - corrugated.

FEATURES:

HD abrasion resistant tube.
Excellent flexibility.
Lightweight and strong suction and delivery.

TEMPERATURE RANGE:

From -40°F to 158°F (-40°C to 70°C).

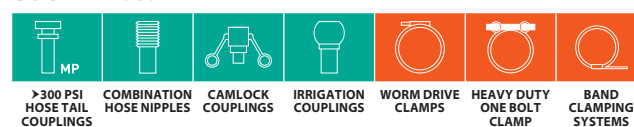
COIL LENGTHS:

20 Metre or 60 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



TMH EPDM A/R CORRUGATED														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
TMH20	31	-20	31,8	1.1/4	41,4	1.63	3,0	45	76	3	760	30	0,51	0.34
TMH24	38	-24	38,1	1.1/2	48,0	1.90	2,8	40	81	3	760	30	0,60	0.40
TMH32	51	-32	50,8	2	62,7	2.47	2,8	40	140	6	760	30	1,00	0.67
TMH40	63	-40	63,5	2.1/2	77,5	3.05	2.5	35	152	6	760	30	1,29	0.87
TMH48	76	-48	76,2	3	93,7	3.70	2,0	30	191	8	760	30	1,73	1.16
TMH64	102	-64	101,6	4	122,2	4.81	2,0	30	279	11	760	30	3,21	2.16
TMH80	127	-80	127,0	5	146,8	5.78	2,0	30	381	10	760	30	3,87	2.60
TMH96	152	-96	152,4	6	179,8	7.08	1,8	25	508	20	760	30	5,10	3.43
TMH128	203	-128	203,2	8	234,2	9.22	1,5	20	762	30	760	30	8,69	5.84
TMH160	254	-160	254,0	10	284,7	11.2	1,5	20	1143	45	760	30	11,85	7.96

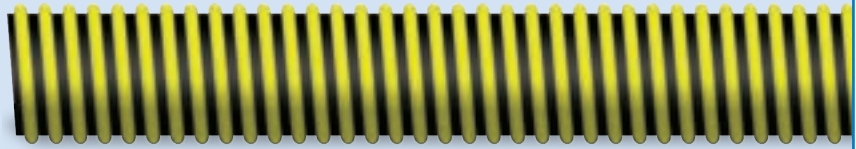
Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - MULTI-PURPOSE

PSMF

MULTI-PURPOSE
RYCO MULTI-FLEX SUCTION



RECOMMENDED FOR:

Collection of waste on environmental waste trucks, pumping the contents of grease pits, sewage collection, pumping of fuels, lubricants and most chemicals.

An extremely flexible suction/discharge hose with a hard wearing exposed rigid PVC spiral. Excellent chemical resistance, making the hose suitable for diesel fuels petrol, oils, sewage and chemicals.

TUBE:

Black flexible PVC.

REINFORCEMENT:

Rigid PVC spiral.

COVER:

Yellow PVC corrugated spiral.

FEATURES:

Excellent chemical resistance and flexibility.
Multi-purpose suction and delivery hose.
Excellent abrasion resistant tube.
Good UV resistance.
Yellow external spiral.
Lightweight design.

TEMPERATURE RANGE:

From -5°C to +60°C (+23°F to +140°F).

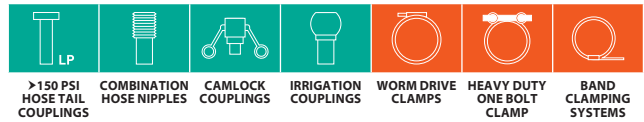
COIL LENGTHS:







20 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



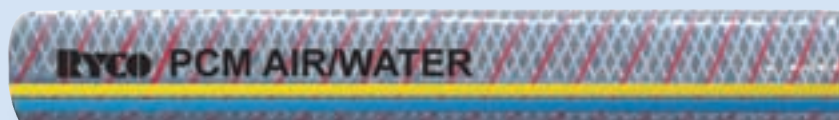
PSMF RYCO MULTI-FLEX SUCTION														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
PSMF28	44	-28	44,5	1.3/4	55,5	2.18	3	45	180	7.1	600	24	0,64	0.43
PSMF32	51	-32	50,8	2	61,0	2.40	3	45	220	8.6	600	24	0,88	0.59
PSMF40	63	-40	63,5	2.1/2	77,0	3.03	3	45	270	10.6	600	24	1,27	0.85
PSMF48	76	-48	76,2	3	91,0	3.60	3	45	350	13.8	600	24	1,62	1.09
PSMF64	102	-64	101,6	4	118,0	4.64	3	45	450	17.7	600	24	2,43	1.63
PSMF80	127	-80	127,0	5	149,0	5.86	3	45	475	18.7	600	24	3,99	2.70
PSMF96	152	-96	152,4	6	172,0	6.77	3	45	500	19.7	600	24	5,10	3.42
PSMF128	203	-128	203,2	8	224,0	8.82	3	45	650	25.6	600	24	7,55	5.07

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

PCM

MULTI-PURPOSE

CLEAR MULTI-PURPOSE
NON-TOXIC/AIR/WATER/
PETROLEUM BASED PRODUCTS



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Suitable for air, water, food and beverage liquids and semi-liquids and petroleum-based products.

A Translucent multi-purpose food contact hose. It meets AS 2070, with a food contact inner and outer covering. The hose is highly flexible but kink resistant with a highly distinctive dual striping.

STANDARDS MET OR EXCEEDED:

AS 2070, with a food contact inner and outer covering.

TUBE:

Clear multi-purpose PVC.

REINFORCEMENT:

Textile braid with red fuel tracer.

COVER:

Clear flexible PVC.

FEATURES:

- Translucent multi-purpose food contact hose.
- Highly flexible and kink resistant, with highly distinctive dual striping.
- Suitable for food and beverage.
- Suitable for petroleum based fluids.
- Transparent and kink resistant hose.
- Yellow and blue stripes with distinctive red tracer.
- Excellent UV resistance.

TEMPERATURE RANGE:

From 0°C to +50°C (+32°F to +122°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

20, 100 or 300 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



PCM MULTI-PURPOSE HOSE												
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lb/ft
PCM4	6	-04	6,4	1/4	10,2	0.40	14	200	56	800	0,08	0.05
PCM5	8	-05	7,9	5/16	12,4	0.48	14	200	56	800	0,10	0.07
PCM6	10	-06	9,5	3/8	15,0	0.59	14	200	56	800	0,14	0.09
PCM8	12	-08	12,7	1/2	18,1	0.71	14	200	56	800	0,19	0.13
PCM10	16	-10	15,9	5/8	22,8	0.89	14	200	56	800	0,30	0.20
PCM12	19	-12	19,1	3/4	27,6	1.08	14	200	56	800	0,40	0.27
PCM16	25	-16	25,4	1	33,4	1.31	14	200	56	800	0,54	0.36
PCM20	31	-20	31,8	1.1/4	40,9	1.61	12	175	48	700	0,97	0.65
PCM24	38	-24	38,1	1.1/2	49,8	1.96	12	175	48	700	1,32	0.88
PCM32	51	-32	50,8	2	64,2	2.53	9	130	36	520	2,12	1.42

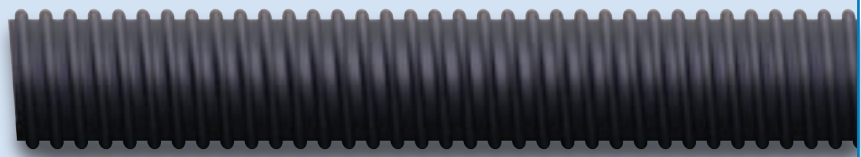
Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - SPECIALTY

PSS/PSSG

SPECIALTY
SPIRAL SUCTION



RECOMMENDED FOR:

Secondary and tertiary lines on air seeder machines. Also suitable for water conveyance, ventilation duct on business machines and dust collection.

A lightweight, flexible air seeder hose also suitable for many other less demanding applications. UV light stabilised.

PSS hose is black, while PSSG hose is grey.

CONSTRUCTION - SPIRAL:

Flexible Medium Duty PVC spiral extrusion profile.

FEATURES:

Extremely lightweight and flexible.
Vacuum - dust, seed or granules.
Very broad range of sizes available.
Corrugated cover with spiral bore.
UV stabilised

TEMPERATURE RANGE:

From -5°C to +30°C (+23°F to +86°F).

COIL LENGTHS:





20 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



PSS/PSSG SPIRAL SUCTION										
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MINIMUM BEND RADIUS		AVERAGE WEIGHT	
Hose	DN	Dash	mm	inch	mm	inch	mm	inch	kg/m	lb/ft
PSSG8	12	-08	12,7	1/2	18,9	0.74	50	1.9	0,10	0.06
PSSG10	16	-10	15,9	5/8	21,3	0.84	65	2.5	0,13	0.09
PSS12	19	-12	19,1	3/4	26,0	1.02	65	2.5	0,20	0.13
PSS16	25	-16	25,4	1	32,5	1.28	70	2.7	0,25	0.17
PSS18	28	-18	28,6	1.1/8	35,3	1.40	80	3.1	0,28	0.18
PSS19	31	-19	30,5	1.3/16	39,5	1.55	85	3.3	0,31	0.21
PSS20	31	-20	31,8	1.1/4	42,0	1.65	85	3.3	0,39	0.26
PSS21	32	-21	32,0	1.9/32	41,0	1.61	90	3.5	0,38	0.25
PSS22	35	-22	34,9	1.3/8	45,0	1.72	90	3.5	0,40	0.27
PSS24	38	-24	38,1	1.1/2	47,3	1.77	90	3.5	0,42	0.28
PSS28	44	-28	44,5	1.3/4	53,8	1.86	100	3.9	0,45	0.30
PSS32	51	-32	50,8	2	63,3	2.12	110	4.3	0,48	0.32
PSS40	63	-40	63,5	2.1/2	74,3	2.50	125	4.9	0,85	0.57
PSS48	76	-48	76,2	3	87,8	2.92	200	7.8	1,00	0.67
PSS64	102	-64	101,6	4	114,3	3.45	250	9.8	1,10	0.74

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

PSSH

SPECIALTY
HD SPIRAL SUCTION



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Collection of dust, sawdust, fumes. Transport of small particulates.

Medium to Heavy Duty vacuum and delivery hose with good flexibility. UV light stabilised.

CONSTRUCTION - SPIRAL:

Flexible PVC Heavy Duty spiral extrusion profile.

FEATURES:

Extremely lightweight and flexible.
Heavy Duty Vacuum - dust, seed or granules.
Very broad range of sizes available.
Corrugated cover with spiral bore.
UV stabilised

TEMPERATURE RANGE:

From -5°C to +30°C (+23°F to +86°F).

COIL LENGTHS:

20 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



>150 PSI
HOSE TAIL
COUPLINGS

CAMLOCK
COUPLINGS

LIGHT DUTY
NON-SHARP
SHEET METAL

WORM DRIVE
CLAMPS

HEAVY DUTY
ONE BOLT
CLAMP

BAND
CLAMPING
SYSTEMS

PSSH HD SPIRAL SUCTION										
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	mm	inch	kg/m	lb/ft
PSSH20	31	-20	31,8	1.1/4	41,8	1.64	125	4.15/16	0,42	0.30
PSSH24	38	-24	38,1	1.1/2	48,6	1.91	130	5.1/8	0,55	0.37
PSSH28	44	-28	44,5	1.3/4	57,8	2.27	135	5.5/16	0,75	0.50
PSSH32	51	-32	50,8	2	67,5	2.48	200	7.7/8	1,00	0.67
PSSH40	63	-40	63,5	2.1/2	79,4	2.66	175	6.7/8	1,00	0.67
PSSH48	76	-48	76,2	3	91,9	3.12	200	7.7/8	1,10	0.74
PSSH64	102	-64	101,6	4	121,5	3.62	300	11.13/16	1,40	0.94
PSSH80	127	-80	127,0	5	149,0	4.78	400	15.3/4	2,50	1.68
PSSH96	152	-96	152,4	6	174,0	5.86	450	17.3/4	3,70	2.50
PSSH128	203	-128	203,2	8	226,0	6.85	550	21.5/8	4,20	2.82

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - SPECIALTY

PABD

SPECIALTY

AIR BREATHER AND DIVER



RECOMMENDED FOR:

Diving, air breathing applications.

Approved braided divers air breathing hose for professional and sports diving. Also suitable for breathing apparatus for spray booths and sand blasting. Conforms to AS 2299 and AS/NZS 1716. Outer cover pricked for added safety. Extremely low odor inner tube.

STANDARDS MET OR EXCEEDED:

Manufactured to AS 2299 and AS/NZS 1716.

TUBE:

Food grade white PVC.

REINFORCEMENT:

Textile braid.

COVER:

Bright yellow flexible PVC.

FEATURES:

Excellent kink resistance.

Low temperature flexibility.

Smooth food grade, low odour tube.

Suitable for most air breathing equipment and applications. (use only approved fittings).

TEMPERATURE RANGE:

From 0°C to +50°C (+32°F to +122°F).

WORKING PRESSURE:

Maximum working pressures are based on a 3:1 safety factor (maximum working pressure to minimum burst pressure).

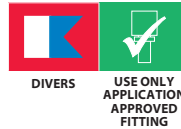
COIL LENGTHS:

50, 100 and 300 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



DIVERS

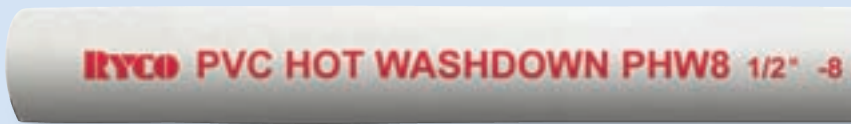
USE ONLY
APPLICATION
APPROVED
FITTING

PABD AIR BREATH AND DIVER												
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lb/ft
PABD5	8	-05	7,9	5/16	14,3	0.56	16	235	64	940	0,14	0.09
PABD6	10	-06	9,5	3/8	17,2	0.67	25	365	100	1,460	0,22	0.15

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

PHW

SPECIALTY
HOT WASHDOWN



INTRODUCTION

RECOMMENDED FOR:

Hot washdown of all food preparation and retail areas, where milk, fats and other food products are present.

Highest grade hose for hot washdown use in the food industry. The thermoplastic rubber smooth outer cover is highly resistant to lactic acid and fats.

TUBE:

White flexible PVC.

REINFORCEMENT:

Textile braid.

COVER:

White smooth thermoplastic.

FEATURES:

- Rated to 85°C when used at Low Pressure.
- Suitable for dishwashers and washing machines (max 85°C).
- Good flexibility.
- UV resistance for outdoor applications.
- Excellent abrasion resistance.

TEMPERATURE RANGE:

From 0°C to +85°C (+32°F to +185°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

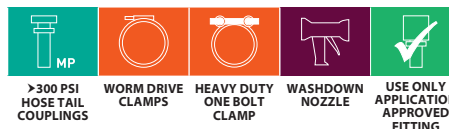
COIL LENGTHS:

20 or 100 Metre.

TOLERANCES:

Available on request.

COUPLINGS:



HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

PHW HOT WASHDOWN												
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lb/ft
PHW8	12	-08	12,7	1/2	19,7	0.77	20	290	80	1,160	0,28	0.20
PHW12	19	-12	19,1	3/4	28,0	1.10	18	250	72	1,000	0,48	0.32

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - SPECIALTY

ANFR/ANFF

SPECIALTY

RYCO ANFO TUBE RIGID
RYCO ANFO TUBE FLEXIBLE



RECOMMENDED FOR:

For the transfer of ANFO explosives.

RYCO ANFR is a rigid ANFO hose and RYCO ANFF is a flexible ANFO hose.

STANDARDS MET OR EXCEEDED:

Conforms to AS 2187.2.

TUBE:

Thermoplastic extruded tube.

FEATURES:

Black with orange stripe.

Conforms to AS 2187.2.

Rigid or flexible types available.

Must be used with approved equipment by approved operators only.

TEMPERATURE RANGE:

From 0°C to +40°C (+32°F to +104°F).

COIL LENGTHS:

30 or 60 Metre.

NOTE: RYCO do not supply cut lengths.

TOLERANCES:




Available on request.

COUPLINGS:

Use only application approved Fittings and Clamps.



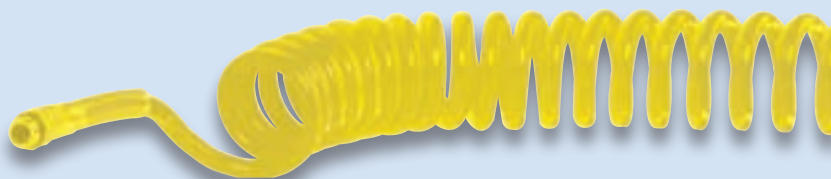
USE ONLY
APPLICATION
APPROVED
FITTING

ANFR/ANFF RYCO ANFO TUBE			 NOMINAL HOSE ID		 NOMINAL HOSE OD		 AVERAGE WEIGHT	
PART NO	HOSE SIZE							
Hose	DN	Dash	mm	inch	mm	inch	kg/m	lb/ft
ANFR12	19	-12	19,1	3/4	26,0	1.02	2,70	1.81
ANFR16	25	-16	25,4	1	33,0	1.30	4,50	3.02
ANFF12	19	-12	19,1	3/4	26,0	1.02	3,70	2.50
ANFF16	25	-16	25,4	1	33,0	1.30	6,10	4.10

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

NSS

SPECIALTY
RYCO NYLON SELFSTORE TUBING



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Pneumatic and hydraulic control systems, fuel tubing, air and gas tubing. Also ideal for handling weed killing solutions, refrigerants, fresh and sea water, fumigants, paints and lacquers and many other products.

Nylon pressure tubing is made from premium quality raw materials and precision of connections with fittings and adaptors.

TUBE:

Nylon extruded and formed tubing.

FEATURES:

Self store memory.
Use in overhead or wall mounted air applications.
Available in yellow or orange safety colours.
Fitted assemblies with spring guards on each end.
Also available unfitted.

TEMPERATURE RANGE:

From 0°C to +60°C (+32°F to 140°F).

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

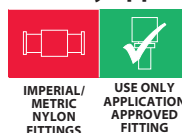
9.1 Metre (30 ft) lengths only.

TOLERANCES:

Available on request.

COUPLINGS:

Use only application approved Fittings and Clamps.



NSS RYCO NYLON SELFSTORE TUBING												
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lb/ft
NSS4	6	-04	4,4	1/4	6,0	0.23	12	175	48	700	0,20	0.13
NSS6	10	-06	7,8	3/8	10,0	0.39	12	175	48	700	0,39	0.26
NSS8	13	-08	9,3	1/2	12,5	0.50	12	175	48	700	0,77	0.52

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - SPECIALTY

NTIB/NTIN

SPECIALTY

NYLON TUBING IMPERIAL BLACK
NYLON TUBING IMPERIAL NATURAL



RECOMMENDED FOR:

Pneumatic and hydraulic control systems, fuel tubing, air and gas tubing. Also ideal for handling weed killing solutions, refrigerants, fresh and sea water, fumigants, paints and lacquers and many other products.

Nylon pressure tubing is made from premium quality raw materials and precision engineered to ensure simplicity of connections with fittings and adaptors.

RYCO NTIB hose is black, and RYCO NTIN hose is natural (translucent).

TUBE:

Thermoplastic extruded tube.

FEATURES:

- High quality nylon.
- Excellent dimensional stability.
- Temperature and light stabilised.
- Chemical, oil, fuel and grease resistant.
- Easily installed and assembled.
- Lighter than rubber or steel lines.
- Good flexibility characteristics.

TEMPERATURE RANGE:

From -20°C to +90°C (-4°F to 194°F).

NOTE: At the maximum temperature of +90°C (194°F) the recommended working pressure is reduced by 50% to a MWP of 10 bar/145 psi.

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

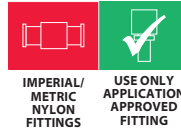
100 Metre.

TOLERANCES:

Available on request.

COUPLINGS:

Use only approved imperial nylon Push-In or Compression Fittings.



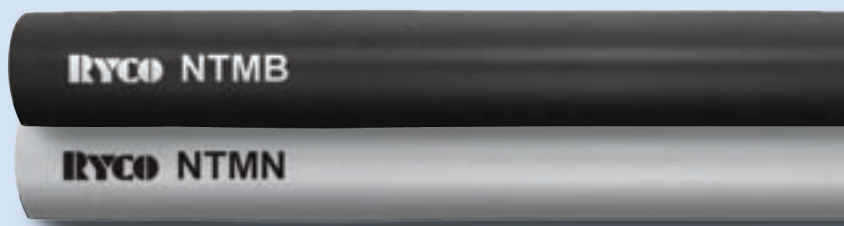
NTIB/NTIN NYLON TUBING IMPERIAL												
PART NO	HOSE SIZE	NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE	MINIMUM BURST PRESSURE	MINIMUM BEND RADIUS		AVERAGE WEIGHT				
Hose	DN	Dash	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
NTIB2	3	-02	3,2	1/8	17	250	68	1000	28	1.1	0,04	0.03
NTIB3	5	-03	4,8	3/16	17	250	68	1000	32	1.2	0,10	0.07
NTIB4	6	-04	6,3	1/4	17	250	68	1000	38	1.5	0,18	0.12
NTIB5	8	-05	7,9	5/16	17	250	68	1000	51	2.0	0,27	0.18
NTIB6	10	-06	9,5	3/8	17	250	68	1000	63	2.5	0,40	0.27
NTIB8	12	-08	12,7	1/2	17	250	68	1000	85	3.3	0,69	0.46
NTIN2	3	-02	3,2	1/8	17	250	68	1000	28	1.1	0,04	0.03
NTIN3	5	-03	4,8	3/16	17	250	68	1000	32	1.2	0,10	0.07
NTIN4	6	-04	6,3	1/4	17	250	68	1000	38	1.5	0,18	0.12
NTIN5	8	-05	7,9	5/16	17	250	68	1000	51	2.0	0,27	0.18
NTIN6	10	-06	9,5	3/8	17	250	68	1000	63	2.5	0,40	0.27
NTIN8	12	-08	12,7	1/2	17	250	68	1000	85	3.3	0,69	0.46

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

NTMB/NTMN

SPECIALTY

NYLON TUBING METRIC
BLACK OR NATURAL



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

Pneumatic and hydraulic control systems, fuel tubing, air and gas tubing. Also ideal for handling weed killing solutions, refrigerants, fresh and sea water, fumigants, paints and lacquers and many other products.

Nylon pressure tubing is made from premium quality raw materials and precision engineered to ensure simplicity of connections with fittings and adaptors.

RYCO NTMB hose is black, and RYCO NTMN hose is natural (translucent).

TUBE:

Thermoplastic extruded tube.

FEATURES:

- High quality nylon.
- Excellent dimensional stability.
- Temperature and light stabilised.
- Chemical, oil, fuel and grease resistant.
- Easily installed and assembled.
- Lighter than rubber or steel lines.
- Good flexibility characteristics.

TEMPERATURE RANGE:

From -20°C to +90°C (-4°F to 194°F).

NOTE: At the maximum temperature of +90°C (194°F) the recommended working pressure is reduced by 50% to a MWP of 10 bar/145 psi.

WORKING PRESSURE:

Maximum working pressures are based on a 4:1 safety factor (maximum working pressure to minimum burst pressure).

COIL LENGTHS:

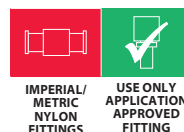
100 Metre.

TOLERANCES:

Available on request.

COUPLINGS:

Use only approved metric nylon Push-In or Compression Fittings.



NTMB/NTMN NYLON TUBING METRIC												
PART NO	HOSE SIZE	NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft
NTMB4	4	-02	4	-	20	290	80	1160	28	1.1	0,04	0.03
NTMB5	5	-03	5	-	20	290	80	1160	35	1.4	0,10	0.07
NTMB6	6	-04	6	-	20	290	80	1160	42	1.6	0,18	0.12
NTMB8	8	-05	8	-	20	290	80	1160	56	2.2	0,27	0.18
NTMB10	10	-06	10	-	20	290	80	1160	70	2.7	0,40	0.27
NTMB12	12	-08	12	-	20	290	80	1160	84	3.3	0,69	0.46
NTMN4	4	-02	4	-	20	290	80	1160	28	1.1	0,04	0.03
NTMN5	5	-03	5	-	20	290	80	1160	35	1.4	0,10	0.07
NTMN6	6	-04	6	-	20	290	80	1160	42	1.6	0,18	0.12
NTMN8	8	-05	8	-	20	290	80	1160	56	2.2	0,27	0.18
NTMN10	10	-06	10	-	20	290	80	1160	70	2.7	0,40	0.27
NTMN12	12	-08	12	-	20	290	80	1160	84	3.3	0,69	0.46

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

PVC - SPECIALTY

PCVTM/H

SPECIALTY

RYCO CLEAR VINYL TUBING
RYCO CLEAR VINYL TUBING HD



RECOMMENDED FOR:

Suitable for food and beverage fluids, medical drainage and Low Pressure general delivery lines.

Non-toxic tube manufactured to AS 2070 with excellent clarity, flexibility and mirror smooth bore for low friction flow.

STANDARDS MET OR EXCEEDED:

AS 2070.

TUBE:

Clear extruded vinyl.

FEATURES:

High grade mirror finish.

Non-toxic food contact.

Abrasion resistant.

Crystal clear.

PCVTMH10 has a Heavy Duty thicker wall.

TEMPERATURE RANGE:

From 0°C to +50°C (+32°F to +122°F).

COIL LENGTHS:

15, 30, 60 and 100 Metre.

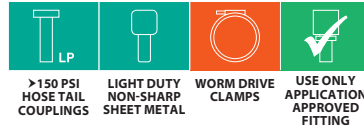
TOLERANCES:





Available on request.

COUPLINGS:

Use only application approved Fittings and Clamps

NOTE: Petrol resistant vinyl tubing is available on request.



PCVT/PCVTH RYCO CLEAR VINYL TUBING										
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		AVERAGE WEIGHT		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	kg/m	lb/ft
PCVTM3	3	-02	3,0	1/8	5,0	0.19	9	125	0,17	0.11
PCVTM4	4	-02	4,0	5/32	6,0	0.23	8	115	0,25	0.17
PCVTM5	5	-03	5,0	3/16	8,0	0.31	8	115	0,42	0.28
PCVTM6	6	-04	6,0	1/4	9,0	0.35	6	90	0,48	0.32
PCVTM8	8	-05	8,0	5/16	11,0	0.43	5	75	0,61	0.41
PCVTM10	10	-06	10,0	3/8	13,0	0.51	4	60	0,74	0.50
PCVTM12	13	-08	12,5	1/2	15,5	0.61	5	70	0,90	0.60
PCVTM16	16	-10	16,0	5/8	19,0	0.75	4	60	1,13	0.76
PCVTM19	19	-12	19,0	3/4	23,0	0.90	3.5	50	1,81	1.22
PCVTM25	25	-16	25,0	1	31,0	1.22	3.5	50	3,60	2.42
PCVTM32	32	-20	32,0	1.1/4	38,0	1.50	3	40	4,52	3.04
PCVTM38	38	-24	38,0	1.1/2	46,0	1.81	3	40	7,12	4.78
PCVTM50	50	-32	50,0	2	60,0	2.36	3	40	11,65	7.83
PCVTMH10	10	-06	10,0	3/8	15,0	0.59	6	90	1,34	0.90

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

RTH1

SPECIALTY
STAINLESS STEEL
BRAID TEFLON* HOSE



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

High Pressure hydraulic oil lines. Fluids at extremes of pressure and temperature. RYCO RTH1 Series Hose Lining is chemically pure, inert and contains no leachable additives. RYCO RTH1 is remarkably resistant to high temperature and flame. It has a very high melting point, thermal degradation threshold and auto-ignition temperature. **Warning:** RTH1 Hose Liner is non-conductive. Do not use with high velocity fluids and gases, as static electricity may be generated and cause premature failure of hose. If in doubt contact RYCO Hydraulics Technical Department.

PERFORMANCE:

Meets or Exceeds the Performance Requirements of: SAE 100R14. RTH112 meets ID and OD requirements of SAE 100R14. Other sizes have ID and OD different to SAE 100R14.

TUBE:

TEFLON* (PTFE).

REINFORCEMENT:

One braid of high tensile Grade 304 stainless steel wire.

TEMPERATURE RANGE:

From -60°C to +260°C (-76°F to +500°F).
(According to application).

WORKING PRESSURE:

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

WORKING TEMPERATURE		% OF WORKING PRESSURE THAT MAY BE USED SAFELY
°C	°F	Percentage
-60°C to +100°C	(-76°F to +212°F)	100
+101°C to +150°C	(+214°F to +302°F)	93
+151°C to +200°C	(+304°F to +392°F)	85
+201°C to +250°C	(+394°F to +482°F)	77
+251°C to +260°C	(+484°F to +500°F)	70

THIRD PARTY APPROVALS:

MED and USCG.

COUPLINGS:



ONE PIECE CRIMP
TT000

ONE-PIECE CRIMP

TT000 Series (sizes -04 to -16).

For coupling specifications and assembly instructions see the latest RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart on our website www.RYCO.com.au.

RTH1 - TEFLON* HOSE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MAXIMUM WORKING PRESSURE SAE100R14		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		
PART NO	HOSE SIZE	mm	inch	mm	inch	bar	psi	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	
RTH14	6	-04	6,4	1/4	9,4	0.37	170	2450	103	1500	680	9800	75	3.0	0,12	0.08
RTH16	10	-06	9,5	3/8	11,7	0.46	165	2375	103	1500	660	9500	125	5.0	0,14	0.09
RTH18	12	-08	12,7	1/2	15,4	0.61	120	1750	55	800	485	7000	140	5.5	0,22	0.15
RTH110	16	-10	15,9	5/8	18,4	0.72	105	1500	55	800	420	6000	165	6.5	0,28	0.19
RTH112	19	-12	19,1	3/4	22,1	0.87	85	1250	55	800	345	5000	200	8.0	0,33	0.22
RTH116	25	-16	25,4	1	28,6	1.13	55	800	55	800	220	3200	300	12.0	0,46	0.31

* DuPont Registered TM
Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

HOSE

FLEXIBLE DUCTING - SPECIALTY

DPV

SPECIALTY

PVC FLEXIBLE DUCTING BLUE



RECOMMENDED FOR:

A flexible PVC Ducting with a thicker wall than other PVC Ducting and with an embedded helix wire making it ideal for Medium Duty dust or fume extraction.

Suitable for use in: manufacturing and processing industries, grain handling industries, agricultural equipment, chemical processing, construction and mining, woodworking and timber industries etc.

TUBE:

An extruded PVC wall.

REINFORCEMENT:

Spiral helix steel wire.

COVER:

An extruded PVC wall.

FEATURES:

A flexible lower cost Light Duty ducting, suitable for a wide range of applications.

Medium Duty suction and delivery of abrasive powders, shavings and fumes.

Excellent UV resistance.

Excellent flexibility.

Good chemical resistance.

TEMPERATURE RANGE:

From 0°C to +50°C (+32°F to +122°F).

COIL LENGTHS:

10 Metre.

TOLERANCES:

Available on request.

COUPLINGS:

Light Duty sheet metal type Fittings, with no sharp or serrated ends.




NOTE: The routing of any Flexible Ducting is critical.

• **DO NOT** let it sag anywhere.

• **DO NOT** let it rub against any sharp edges at all.



LIGHT DUTY NON-SHARP SHEET METAL WORM DRIVE CLAMPS HEAVY DUTY ONE BOLT CLAMP BAND CLAMPING SYSTEMS

DPV PVC FLEXIBLE DUCTING			 NOMINAL HOSE ID		 MINIMUM BEND RADIUS		 VACUUM RATING	
PART NO	HOSE SIZE		mm	inch	mm	inch	mmHg	inHg
DPV32	DN 51	Dash -32	50,8	2	102	4.0	2	0.07
DPV36	DN 57	Dash -36	57,2	2.1/4	114	4.5	1,7	0.07
DPV40	DN 63	Dash -40	63,5	2.1/2	126	5.0	1,7	0.07
DPV48	DN 76	Dash -48	76,2	3	152	6.0	1,7	0.07
DPV56	DN 89	Dash -56	88,9	3.1/2	178	7.0	1,6	0.06
DPV64	DN 102	Dash -64	101,6	4	204	8.0	1,3	0.05
DPV72	DN 114	Dash -72	114,3	4.1/2	228	9.0	1,2	0.04
DPV80	DN 127	Dash -80	127,0	5	254	10.0	1	0.03
DPV96	DN 152	Dash -96	152,4	6	304	12.0	0,8	0.03
DPV112	DN 179	Dash -112	177,8	7	356	14.0	0,5	0.02
DPV128	DN 203	Dash -128	203,2	8	406	16.0	0,4	0.01
DPV160	DN 254	Dash -160	254,0	10	508	20.0	0,4	0.01
DPV192	DN 305	Dash -192	304,8	12	610	24.0	0,3	0.01

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

DTP

SPECIALTY

THERMOPLASTIC RUBBER FLEXIBLE DUCTING BLACK



INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDED FOR:

An extruded thermoplastic rubber ducting with a steel spiral helix wire embedded in the wall of the ducting. A versatile high quality general purpose ducting with excellent temperature, UV, chemical and abrasion resistance.

Suitable for use in: manufacturing and processing industries, grain handling industries, agricultural equipment, automotive, petrochemical, chemical processing, construction and mining, woodworking and timber industries etc.

TUBE:

Thermoplastic rubber wall.

REINFORCEMENT:

Spiral helix steel wire.

COVER:

Thermoplastic rubber wall.

FEATURES:

- A flexible multi-purpose ducting suitable for most general purpose applications.
- Suction and delivery of abrasive powders, shavings and fumes.
- Excellent UV resistance.
- Excellent flexibility.
- Good chemical resistance.

TEMPERATURE RANGE:

From -50°C to +120°C (-58°F to +248°F).

COIL LENGTHS:

10 Metre.

TOLERANCES:

Available on request.

COUPLINGS:

Light Duty sheet metal type Fittings, with no sharp or serrated ends

NOTE: The routing of any Flexible Ducting is critical.

- **DO NOT** let it sag anywhere.
- **DO NOT** let it rub against any sharp edges at all.



LIGHT DUTY NON-SHARP SHEET METAL

WORM DRIVE CLAMPS

HEAVY DUTY ONE BOLT CLAMP

BAND CLAMPING SYSTEMS

DTP THERMOPLASTIC RUBBER FLEXIBLE DUCTING								
PART NO	HOSE SIZE		NOMINAL HOSE ID		MINIMUM BEND RADIUS		VACUUM RATING	
Hose	DN	Dash	mm	inch	mm	inch	mmHg	inHg
DTP24	38	-24	38,1	1.1/2	76	3.0	2	0.07
DTP32	51	-32	50,8	2	102	4.0	2	0.07
DTP36	57	-36	57,2	2.1/4	114	4.5	1,7	0.06
DTP40	63	-40	63,5	2.1/2	126	5.0	1,7	0.06
DTP48	76	-48	76,2	3	152	6.0	1,7	0.06
DTP56	89	-56	88,9	3.1/2	178	7.0	1,6	0.06
DTP64	102	-64	101,6	4	204	8.0	1,3	0.05
DTP72	114	-72	114,3	4.1/2	228	8.0	1,2	0.04
DTP80	127	-80	127,0	5	254	10.0	1	0.03
DTP96	152	-96	152,4	6	304	12.0	0,8	0.03
DTP112	178	-112	177,8	7	356	14.0	0,5	0.02
DTP128	203	-128	203,2	8	406	16.0	0,4	0.01
DTP160	254	-160	254,0	10	508	20.0	0,4	0.01
DTP192	305	-192	304,8	12	610	24.0	0,3	0.01

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

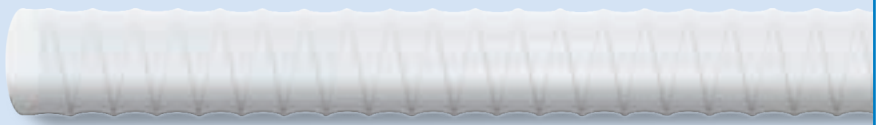
HOSE

FLEXIBLE DUCTING - SPECIALTY

DPUA

SPECIALTY

POLYURETHANE
FLEXIBLE DUCTING CLEAR



RECOMMENDED FOR:

An extruded anti-static polyurethane ducting with a steel spiral helix wire embedded in the wall. A versatile high quality General Heavier Duty ducting with good UV, chemical and excellent abrasion resistance.

Suitable for Heavier Duty use in: manufacturing and processing industries, grain handling industries, agricultural equipment, chemical processing, textile, recycling, construction and mining, woodworking and timber industries etc. Suitable for dry food contact.

TUBE:

HD polyurethane anti-static wall.

REINFORCEMENT:

Spiral helix copper wire.

COVER:

HD polyurethane anti-static wall.

FEATURES:

A flexible Heavy Duty multi-purpose anti-static ducting suitable for applications that also require excellent abrasion or tear resistance.
Static dissipating properties.
Five times better abrasion resistance than PVC ducting.
Light, flexible but very strong - good tear resistance.
Translucent wall to see product flow.
Dry food contact.

TEMPERATURE RANGE:

From -40°C to +90°C (-40°F to +194°F).

COIL LENGTHS:

10 Metre.

TOLERANCES:

Available on request.




COUPLINGS:

Light Duty sheet metal type Fittings, with no sharp or serrated ends

NOTE: The routing of any Flexible Ducting is critical.

- **DO NOT** let it sag anywhere.
- **DO NOT** let it rub against any sharp edges at all.



DPU POLYURETHANE FLEXIBLE DUCTING			 NOMINAL HOSE ID		 MINIMUM BEND RADIUS		 VACUUM RATING	
PART NO	HOSE SIZE		mm	inch	mm	inch	mmHg	inHg
DPUA24	38	-24	38,1	1.1/2	76	3.0	2	0.07
DPUA32	51	-32	50,8	2	102	4.0	2	0.07
DPUA36	57	-36	57,2	2.1/4	114	4.5	1,7	0.06
DPUA40	63	-40	63,5	2.1/2	126	5.0	1,7	0.06
DPUA48	76	-48	76,2	3	152	6.0	1,7	0.06
DPUA56	89	-56	88,9	3.1/2	178	7.0	1,6	0.06
DPUA64	102	-64	101,6	4	204	8.0	1,3	0.05
DPUA72	114	-72	114,3	4.1/2	228	8.0	1,2	0.04
DPUA80	127	-80	127,0	5	254	10.0	1	0.03
DPUA96	152	-96	152,4	6	304	12.0	0,8	0.03
DPUA112	178	-112	177,8	7	356	14.0	0,5	0.02
DPUA128	203	-128	203,2	8	406	16.0	0,4	0.01
DPUA160	254	-160	254,0	10	508	20.0	0,4	0.01

Cutting and Assembly Charges apply to all RYCO industrial hoses, and vary by hose types and sizes. Contact RYCO for additional information or visit www.RYCO.com.au.

RYCO HOSE PROTECTION

RYCO offers a selection of hose protection and identification products for the prolonged life of hose and hose assemblies. Many of these are suitable for use with RYCO's range of Industrial hose products. For further information on available hose protection products, contact your RYCO representative or download the RYCO Product Technical Manual - Hydraulics from our website, www.RYCO.com.au

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

CROCSTOP

3 IN 1 SAFETY DEVICE

- Burst suppression
- Whipcheck
- Abrasion resistant



RCS

CROCSLEEVE
FLAME RESISTANT
ANTI-STATIC

MDG41 SAFE

Recommended for hose burst and pinhole protection. Protection of individual hoses from severe abrasion. Provides a cost-effective method of bundling hoses together, while providing abrasion resistance to the bundle.



RH

RAWHIDE
NYLON HOSE SLEEVE

Recommended for the protection of individual hoses from abrasion. Provides a cost-effective method of bundling hoses together, while providing abrasion resistance to the bundle. When abrasion occurs, the thousands of tiny filaments in the sleeve bulk up to continually renew the surface.



RSG

POLYETHYLENE SPIRAL GUARD
RSG (BLACK), RSGY (YELLOW),
RSGF (FRAS)

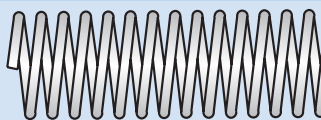
Lightweight, cost-effective protection of hoses and cables from abrasion and impact. It can also be used to bundle hoses together in groups. RSGF meets Flame Resistance Designation "U.S. MSHA" of the US Department of Labor, Mine Safety and Health Administration.



RWA

WIRE ARMOUR

Protection for Hose Cover in arduous operating conditions; especially against abrasion and deep gouges, thus prolonging the life of the hose.



RHYS

PACKAGING SLEEVE

Recommended for packaging and protection of hose assemblies, in transit and in storage. RYCO RHYS Packaging Sleeve is installed over the finished hose assembly. The ends may be either heat sealed, folded over and stapled, or taped closed.



FS1072

FIRE SLEEVE

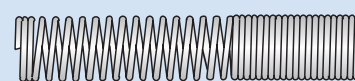
Recommended for increasing the service life of hoses used in hostile environments. It is a tough, flexible insulation, which not only protects from intense external radiant heat, but also sheds molten metal splash.



750/760

SPRING GUARD

Recommended for the control of bend radius at the end of hoses to avoid excessive strain on hose couplings. Can be used with L000 Series Field Attachable and T2000 Series BITELOK Couplings.





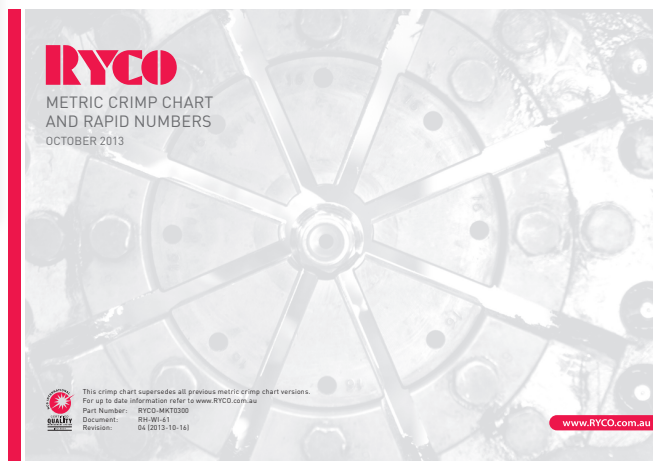
RYCO PRODUCT TECHNICAL MANUAL - HYDRAULICS

For further information on RYCO's Hose range, including hose assembly information, chemical compatibilities and a wide range of suitable fittings, request a copy of RYCO's Product Technical Manual - Hydraulics or download one from our website www.RYCO.com.au.

CRIMP CHARTS

Consult our website, www.RYCO.com.au, for up-to-date crimp charts - in both metric and imperial measurements - for crimping data on RYCO's wide range of Hose and matched Couplings.

Please refer to page 121 of the coupling section.



COUPLINGS



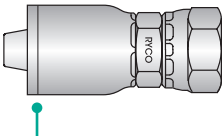

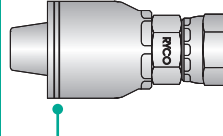

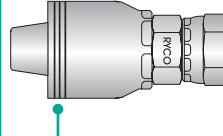

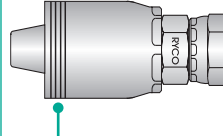

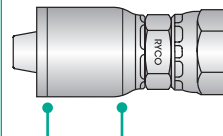

COUPLINGS

RYCO MATCHED COUPLINGS

Some Hoses featured in this manual are matched to particular RYCO Hose Couplings series'. These must be assembled according to the instructions listed in the RYCO Product Technical Manual - Hydraulics and the latest Crimp Chart.

There are many different styles of thread and connector for the Coupling series' listed below. For a complete list or for further information please consult the RYCO Product Technical Manual - Hydraulics, the latest Crimp Chart on our website - www.RYCO.com.au, or contact your RYCO Representative.

CRIMP COUPLINGS

 <p>Only T1000 couplings have ONE series code grooves at the end of the ferrule as shown.</p>  <p>ONE PIECE CRIMP T1000</p>	 <p>Only T2000 couplings have TWO series code grooves at the end of the ferrule as shown.</p>  <p>ONE PIECE CRIMP T2000</p>	 <p>Only T4000 couplings have THREE series code grooves at the end of the ferrule as shown.</p>  <p>ONE PIECE CRIMP T4000</p>	 <p>Only T7000 couplings have FOUR series code grooves at the end of the ferrule as shown.</p>  <p>ONE PIECE CRIMP T7000</p>	 <p>Only TT000 couplings have ONE series code grooves (one at each end of the ferrule) as shown.</p>  <p>ONE PIECE CRIMP TT000</p>
--	--	--	--	---

FIELD ATTACHABLE COUPLINGS

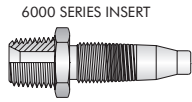
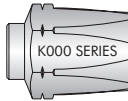

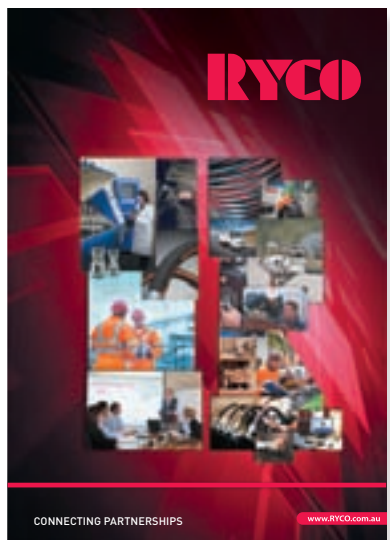
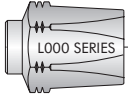

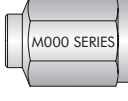



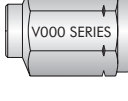

FIELD ATTACHABLE FERRULES FOR 6000 SERIES INSERTS

The RYCO Field Attachable system consists of five ferrule styles, each specific to a hose type, and one common insert. Field attachable inserts and ferrules can be ordered individually, or as a complete coupling for specific hose types.

Field Attachable Inserts for RYCO Hose Series T1A, T2A, T1D, T2D, TXA2D, RQP1, RQP2, T1F, M2, M2G, BT1, E2.

V000 Series match to RQP5 and T5 Hose Series.

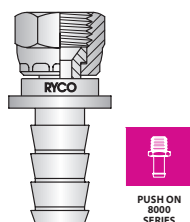
6000 Series Inserts are used with NON-SKIVE Ferrules **K000**, **L000**, **M000**, **P000** and **V000** Series.

 <p>6000 SERIES INSERT</p>	 <p>K000 SERIES — SUITS RYCO T1A, T1D, T1F, RQP1, BT1 ONE WIRE NON-SKIVE HOSE</p>  <p>FIELD ATTACHABLE 6000 SERIES K000</p>	 <p>CONNECTING PARTNERSHIPS www.RYCO.com.au</p>
	 <p>L000 SERIES — SUITS RYCO T2A, T2D, TXA2D, RQP2, E2 TWO WIRE NON-SKIVE HOSE</p>  <p>FIELD ATTACHABLE 6000 SERIES L000</p>	
	 <p>M000 SERIES — SUITS RYCO M2, M2G TWO TEXTILE BRAID HOSE</p>  <p>FIELD ATTACHABLE 6000 SERIES M000</p>	
	 <p>P000 SERIES — SUITS RYCO TPGL GREASELINE</p>  <p>FIELD ATTACHABLE 6000 SERIES P000</p>	
	 <p>V000 SERIES — SUITS RYCO RQP5, T5 TEXTILE COVER HOSE</p>  <p>FIELD ATTACHABLE 6000 SERIES V000</p>	

PUSH-ON COUPLINGS

8000 SERIES PUSH-ON COUPLINGS FOR PL1, PL1D AND RQP6 SERIES HOSE

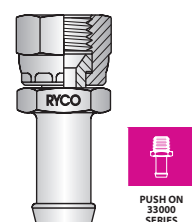
PL1, PL1D and RQP6 Hose simply pushes on to 8000 Series Couplings. Clamps are required for critical applications, and when Working Pressure exceeds 50% of the Maximum Static Working Pressure. Do not overtighten Clamps as this will damage the hose.



SUCTION AND RETURN COUPLINGS

33000 SERIES SUCTION AND RETURN COUPLINGS FOR SR AND SRF SERIES HOSE

33000 Series Couplings require a suitable Clamp around the outside of the hose.



CAMLOCK DUST CAPS



CAMLOCK COUPLINGS



CLDCA P129	CLDCS P129	CLDCB P129	CLDCH P129
----------------------	----------------------	----------------------	----------------------

Stainless Steel part (CLDCS) shown.

DUST CAP	ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE		
----------	-----------	-----------------	-------	---------------	--	--

CAMLOCK DUST PLUGS



CAMLOCK COUPLINGS



CLDPA P129	CLDPS P129	CLDPB P129	CLDCH P129
----------------------	----------------------	----------------------	----------------------

Stainless Steel part (CLDPS) shown.

DUST PLUG	ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE		
-----------	-----------	-----------------	-------	---------------	--	--

CAMLOCKS TYPE A



CAMLOCK COUPLINGS



CLAA P130	CLAS P130	CLAB P130	CLAH P130
---------------------	---------------------	---------------------	---------------------

Aluminium part (CLAA) shown.

TYPE A	ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE		
--------	-----------	-----------------	-------	---------------	--	--

CAMLOCKS TYPE B



CAMLOCK COUPLINGS



CLBA P130	CLBS P130	CLBB P130	CLBH P130
---------------------	---------------------	---------------------	---------------------

Stainless Steel part (CLBS) shown.

TYPE B	ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE		
--------	-----------	-----------------	-------	---------------	--	--

CAMLOCKS TYPE C



CAMLOCK COUPLINGS



CLCA P131	CLCS P131	CLCB P131	CLCH P131
---------------------	---------------------	---------------------	---------------------

Brass part (CLCB) shown.

TYPE C	ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE		
--------	-----------	-----------------	-------	---------------	--	--

CAMLOCKS TYPE D



CAMLOCK COUPLINGS



CLDA P131	CLDS P131	CLDB P131	CLDH P131
---------------------	---------------------	---------------------	---------------------

Polypropylene part (CLDH) shown.

TYPE D	ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE		
--------	-----------	-----------------	-------	---------------	--	--

INTRODUCTION
HOSE
COUPLINGS
ADAPTORS
CLAMPS
ACCESSORIES
TECHNICAL

COUPLINGS

PICTORIAL INDEX

CAMLOCKS TYPE E



CAMLOCK
COUPLINGS



CLEA
P132

CLES
P132

CLEB
P132

CLEH
P132

Aluminium part (CLEA) shown.

TYPE E	ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE		
--------	-----------	-----------------	-------	---------------	--	--

CAMLOCKS TYPE F



CAMLOCK
COUPLINGS



CLFA
P132

CLFS
P132

CLFB
P132

CLFH
P132

Stainless Steel part (CLFS) shown.

TYPE F	ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE		
--------	-----------	-----------------	-------	---------------	--	--

CAMLOCK SPARES



CAMLOCK
COUPLINGS

CLSCU
P133

CLPS
P133

CLLS
P133

CLLB
P133

CLWN
P133

CLWC
P133

CLWV
P133



SAFETY CLIP ZINC PLATED STEEL	CAMLOCK PIN STAINLESS STEEL	CAMLOCK LEVER STAINLESS STEEL BRASS		CAMLOCK SEAL NITRILE	CAMLOCK SEAL NEOPRENE	CAMLOCK SEAL VITON
----------------------------------	--------------------------------	--	--	-------------------------	--------------------------	-----------------------

CLAW COUPLINGS TYPE A



CLAW TYPE
COUPLINGS
WITH SAFETY
COLLARS

CAMF
P134

CAFF
P134

CAMNF
P134

CAFNF
P134

CAHF
P134

CA3WF
P134

CABF
P134



BSP MALE ZINC PLATED STEEL	BSP FEMALE ZINC PLATED STEEL	NPT MALE ZINC PLATED STEEL	NPT FEMALE ZINC PLATED STEEL	HOSETAIL ZINC PLATED STEEL	3-WAY COUPLER ZINC PLATED STEEL	COUPLER BLANK END ZINC PLATED STEEL
-------------------------------	---------------------------------	-------------------------------	---------------------------------	-------------------------------	------------------------------------	--

CLAW COUPLINGS TYPE A

CASN
P134

CASCU
P134



GASKET SEAL NITRILE	SAFETY CLIP ZINC PLATED STEEL					
------------------------	----------------------------------	--	--	--	--	--

CLAW COUPLINGS TYPE B



CLAW TYPE
COUPLINGS
WITH SAFETY
COLLARS

CBMF
P135

CBFF
P135

CBMNF
P135

CBFNF
P135

CBHF
P135

CB3WF
P135

CBBF
P135



BSP MALE ZINC PLATED STEEL	BSP FEMALE ZINC PLATED STEEL	NPT MALE ZINC PLATED STEEL	NPT FEMALE ZINC PLATED STEEL	HOSETAIL ZINC PLATED STEEL	3-WAY COUPLER ZINC PLATED STEEL	COUPLER BLANK END ZINC PLATED STEEL
-------------------------------	---------------------------------	-------------------------------	---------------------------------	-------------------------------	------------------------------------	--

CLAW COUPLINGS TYPE B

CBSN
P135



GASKET SEAL
NITRILE

INTRODUCTION

CLAW COUPLINGS TYPE S



CLAW TYPE COUPLINGS WITH SAFETY COLLARS

CSMF
P136



BSP MALE
ZINC PLATED STEEL

CSFF
P136



BSP FEMALE
ZINC PLATED STEEL

CSMNF
P136



NPT MALE
ZINC PLATED STEEL

CSFNF
P136



NPT FEMALE
ZINC PLATED STEEL

CSHF
P136



HOSETAIL
ZINC PLATED STEEL

CS3WF
P136



3-WAY COUPLER
ZINC PLATED STEEL

CSBF
P136



BLANK END
ZINC PLATED STEEL

HOSE

CLAW COUPLINGS TYPE S

CSSN
P136



GASKET SEAL
NITRILE

COUPLINGS

CLAW COUPLINGS UNIVERSAL TYPE



CLAW TYPE COUPLINGS WITH SAFETY COLLARS

CUMF
P137



BSP MALE
ZINC PLATED STEEL

CUFF
P137



BSP FEMALE
ZINC PLATED STEEL

CUMNF
P137



NPT MALE
ZINC PLATED STEEL

CUFNF
P137



NPT FEMALE
ZINC PLATED STEEL

CUHF
P137



HOSETAIL
ZINC PLATED STEEL

CU3WF
P137



3-WAY COUPLER
ZINC PLATED STEEL

CUBF
P137



COUPLER BLANK END
ZINC PLATED STEEL

ADAPTORS

CLAW COUPLINGS UNIVERSAL TYPE

CUSN
P137



GASKET SEAL
NITRILE

CUSCU
P137



SAFETY CLIP
ZINC PLATED STEEL

CLAMPS

CLAW COUPLINGS AIR KING



CLAW TYPE COUPLINGS WITH SAFETY COLLARS

CKMF
P137



BSP MALE
ZINC PLATED STEEL

CKFF
P137



BSP FEMALE
ZINC PLATED STEEL

CKMNF
P137



NPT MALE
ZINC PLATED STEEL

CKFNF
P137



NPT FEMALE
ZINC PLATED STEEL

CKHF
P138



HOSETAIL
ZINC PLATED STEEL

CK3WF
P138



3-WAY COUPLER
ZINC PLATED STEEL

CKBF
P138



COUPLER BLANK END
ZINC PLATED STEEL



ACCESSORIES

TECHNICAL

COUPLINGS

PICTORIAL INDEX




CLAW COUPLINGS AIR KING

CKSN P138	CKSCU P138				
					
GASKET SEAL NITRILE	SAFETY CLIP ZINC PLATED STEEL				

COMBINATION HOSE NIPPLES AND HOSE MENDERS








COMBINATION HOSE NIPPLES

HNU P138	HNNU P138	HMU P138			
					
BSP MALE HOSETAIL ZINC PLATED STEEL	NPT MALE HOSETAIL ZINC PLATED STEEL	HOSE MENDER ZINC PLATED STEEL			

STEAM FITTINGS



STEAM GROUND JOINT COUPLINGS

SJMSF P139	SJMSU P139	SGJU P139	SGJFSU P139	SHMF P139	SGJWNF P139	
	Zinc Plated Steel part (SJMSF) shown.					
BSP MALE STEM ZINC PLATED STEEL	CAST IRON	GROUND JOINT BSP FEMALE STEM CAST IRON	GROUND JOINT BSPT FEMALE BUSH ZINC PLATED STEEL	HOSE MENDER CAST IRON	GROUND JOINT WING NUT ZINC PLATED STEEL	

HYGIENIC FITTINGS BSM




HYGIENIC INDUSTRY COUPLINGS

BSMBCS P140	BSMCS P140	BSMSE P140	BSMNS P140	BSMMS P140	BSMFS P140	BSMMWS P140
						
BLANK CAP STAINLESS STEEL	FEMALE CAP STAINLESS STEEL	SEAL EPDM	FEMALE NUT STAINLESS STEEL	MALE HOSETAIL STAINLESS STEEL	FEMALE HOSETAIL STAINLESS STEEL	MALE WELD-ON STAINLESS STEEL

HYGIENIC FITTINGS BSM



HYGIENIC INDUSTRY COUPLINGS

BSMFSW P140					
					
FEMALE LINER WELD-ON STAINLESS STEEL					

HYGIENIC FITTINGS TRICLOVER



HYGIENIC INDUSTRY COUPLINGS

TRHS P141	TRWS P141	TRCLS P141	TRSE P141		
					
HOSETAIL STAINLESS STEEL	FERRULE WELD-ON STAINLESS STEEL	CLAMP STAINLESS STEEL	SEAL EPDM		

IRRIGATION FITTINGS



IRRIGATION COUPLINGS

BMG
P141



IRRIGATION MALE BALL HOSETAIL GALVANISED STEEL

BFG
P141



IRRIGATION FEMALE SOCKET HOSETAIL GALVANISED STEEL

BCG
P141



IRRIGATION CLOSURE RING GALVANISED STEEL

BSR
P141



IRRIGATION O-SEAL

BSETG
P141

Comprises BMG, BFG, BCG and BSR shown at left.

IRRIGATION BALL AND SOCKET HOSETAIL SET COMPLETE GALVANISED STEEL

INTRODUCTION

FIRE FITTINGS CFA



>300 PSI HOSE TAIL COUPLINGS

CFAMHB
P142



MALE HOSETAIL BRASS

CFAFHB
P142



FEMALE HOSETAIL BRASS

CFAPB
P142



MALE PLUG BRASS

CFACB
P142



FEMALE CAP BRASS

CFawe
P142



WASHER EPDM

HOSE

FIRE FITTINGS MFB



>300 PSI HOSE TAIL COUPLINGS

MFBMHB
P142



MALE HOSETAIL BRASS

MFBFHB
P142



FEMALE HOSETAIL BRASS

MFBPB
P142



MALE PLUG BRASS

MFBcb
P142



FEMALE CAP BRASS

MFBWE
P142



WASHER EPDM

COUPLINGS

FIRE FITTINGS STORZ



>300 PSI HOSE TAIL COUPLINGS

SZMA
P143



BSPT MALE ALUMINIUM

SZFA
P143



BSPT FEMALE ALUMINIUM

SZHA
P143



HOSETAIL ALUMINIUM

SZCA
P143



CAP ALUMINIUM

SZSE
P143



SEAL EPDM

ADAPTORS

FIRE FITTINGS WAJAX



>300 PSI HOSE TAIL COUPLINGS

WJMA
P143



BSPT MALE ALUMINIUM

WJFA
P143



BSPT FEMALE ALUMINIUM

WJCA
P143



CAP ALUMINIUM

WJSE
P143



SEAL EPDM

CLAMPS

PIPE GROOVED AND SHOULDERED



HARDENED HOSE TAIL COUPLINGS

HPGU
P144



PIPE GROOVED END (VICTAULIC) ZINC PLATED STEEL

HPSU
P144



PIPE SHOULDERED END (VICTAULIC) ZINC PLATED STEEL

ACCESSORIES

TECHNICAL

COUPLINGS

PICTORIAL INDEX

MUFF COUPLINGS

MUDA
P144

MUEA
P144

MUA15A
P144



MUFF COUPLING D
ALUMINIUM

MUFF COUPLING E
ALUMINIUM

MUFF COUPLING ANSI 15
ALUMINIUM



USE ONLY
APPLICATION
APPROVED
FITTING

HOSE TAIL FITTINGS

HMB
P145

HMS
P145

HMH
P145

HMSB
P145



BSPT MALE
HOSE TAIL
BRASS

BSPT MALE
HOSE TAIL
STAINLESS STEEL

BSPT MALE
HOSE TAIL
POLYPROPYLENE

BSPT MALE
SWIVEL
HOSE TAIL BRASS



>300 PSI
HOSE TAIL
COUPLINGS

HOSE TAIL FITTINGS

HJB
P146

HJU
P146

HJS
P146



HOSE TAIL MENDER
BRASS

HOSE TAIL MENDER
ZINC PLATED
STEEL

HOSE TAIL MENDER
STAINLESS
STEEL



>300 PSI
HOSE TAIL
COUPLINGS

HOSE TAIL FITTINGS

HEB
P147

HEMB
P147

HTB
P148

HTMB
P148



90° HOSE TAIL
ELBOW
BRASS

90° HOSE TAIL
BSPT MALE
ELBOW BRASS

HOSE TAIL TEE
BRASS

HOSE TAIL TEE
MALE BSPT BRANCH
BRASS



>300 PSI
HOSE TAIL
COUPLINGS

HOSE TAIL FITTINGS

HFLB
P149

HFLH
P149

HFHB
P149



BSPP FEMALE LUG
HOSE TAIL
BRASS

BSPP FEMALE LUG
HOSE TAIL
POLYPROPYLENE

BSPP FEMALE HEX
HOSE TAIL
BRASS



>300 PSI
HOSE TAIL
COUPLINGS

HOSE TAIL FITTINGS

HFB
P149

HFWE
P149







BSP FEMALE
CONE SEAT
BRASS

HOSE TAIL
FLAT WASHER



>300 PSI
HOSE TAIL
COUPLINGS

CAMLOCKS		CLDCA	CLDCS	CLDCB	CLDCH
DUST CAPS  CAMLOCK COUPLINGS					
					
SIZE		ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE
Dash	inch	PART NO	PART NO	PART NO	PART NO
-08	1/2	CLDCA-08	CLDCS-08		CLDCH-08
-12	3/4	CLDCA-12	CLDCS-12	CLDCB-12	CLDCH-12
-16	1	CLDCA-16	CLDCS-16	CLDCB-16	CLDCH-16
-20	1.1/4	CLDCA-20	CLDCS-20	CLDCB-20	CLDCH-20
-24	1.1/2	CLDCA-24	CLDCS-24	CLDCB-24	CLDCH-24
-32	2	CLDCA-32	CLDCS-32	CLDCB-32	CLDCH-32
-40	2.1/2	CLDCA-40	CLDCS-40	CLDCB-40	CLDCH-40
-48	3	CLDCA-48	CLDCS-48	CLDCB-48	CLDCH-48
-64	4	CLDCA-64	CLDCS-64	CLDCB-64	CLDCH-64
-80	5	CLDCA-80	CLDCS-80		CLDCH-80
-96	6	CLDCA-96	CLDCS-96		CLDCH-96
NOTE: Stainless Steel part shown to represent range.					

CAMLOCKS		CLDPA	CLDPS	CLDPB	CLDPH
DUST PLUGS  CAMLOCK COUPLINGS					
					
SIZE		ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE
Dash	inch	PART NO	PART NO	PART NO	PART NO
-08	1/2	CLDPA-08	CLDPS-08		CLDPH-08
-12	3/4	CLDPA-12	CLDPS-12	CLDPB-12	CLDPH-12
-16	1	CLDPA-16	CLDPS-16	CLDPB-16	CLDPH-16
-20	1.1/4	CLDPA-20	CLDPS-20	CLDPB-20	CLDPH-20
-24	1.1/2	CLDPA-24	CLDPS-24	CLDPB-24	CLDPH-24
-32	2	CLDPA-32	CLDPS-32	CLDPB-32	CLDPH-32
-40	2.1/2	CLDPA-40	CLDPS-40	CLDPB-40	CLDPH-40
-48	3	CLDPA-48	CLDPS-48	CLDPB-48	CLDPH-48
-64	4	CLDPA-64	CLDPS-64	CLDPB-64	CLDPH-64
-80	5	CLDPA-80	CLDPS-80		CLDPH-80
-96	6	CLDPA-96	CLDPS-96		CLDPH-96
NOTE: Stainless Steel part shown to represent range.					

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS



CLAMPS

ACCESSORIES

TECHNICAL

COUPLINGS

CAMLOCKS

CAMLOCKS		CLAA	CLAS	CLAB	CLAH
TYPE A  CAMLOCK COUPLINGS					
					
SIZE		ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE
Dash	inch	PART NO	PART NO	PART NO	PART NO
-08	1/2	CLAA-08	CLAS-08		CLAH-08
-12	3/4	CLAA-12	CLAS-12	CLAB-12	CLAH-12
-16	1	CLAA-16	CLAS-16	CLAB-16	CLAH-16
-20	1.1/4	CLAA-20	CLAS-20	CLAB-20	CLAH-20
-24	1.1/2	CLAA-24	CLAS-24	CLAB-24	CLAH-24
-32	2	CLAA-32	CLAS-32	CLAB-32	CLAH-32
-40	2.1/2	CLAA-40	CLAS-40	CLAB-40	CLAH-40
-48	3	CLAA-48	CLAS-48	CLAB-48	CLAH-48
-64	4	CLAA-64	CLAS-64	CLAB-64	CLAH-64
-80	5	CLAA-80	CLAS-80		CLAH-80
-96	6	CLAA-96	CLAS-96		CLAH-96



NOTE: Stainless Steel part shown to represent range.

CAMLOCKS		CLBA	CLBS	CLBB	CLBH
TYPE B  CAMLOCK COUPLINGS					
					
SIZE		ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE
Dash	inch	PART NO	PART NO	PART NO	PART NO
-08	1/2	CLBA-08	CLBS-08		CLBH-08
-12	3/4	CLBA-12	CLBS-12	CLBB-12	CLBH-12
-16	1	CLBA-16	CLBS-16	CLBB-16	CLBH-16
-20	1.1/4	CLBA-20	CLBS-20	CLBB-20	CLBH-20
-24	1.1/2	CLBA-24	CLBS-24	CLBB-24	CLBH-24
-32	2	CLBA-32	CLBS-32	CLBB-32	CLBH-32
-40	2.1/2	CLBA-40	CLBS-40	CLBB-40	CLBH-40
-48	3	CLBA-48	CLBS-48	CLBB-48	CLBH-48
-64	4	CLBA-64	CLBS-64	CLBB-64	CLBH-64
-80	5	CLBA-80	CLBS-80		CLBH-80
-96	6	CLBA-96	CLBS-96		CLBH-96

NOTE: Stainless Steel part shown to represent range.

CAMLOCKS		CLCA	CLCS	CLCB	CLCH
TYPE C  CAMLOCK COUPLINGS					
					
SIZE		ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE
Dash	inch	PART NO	PART NO	PART NO	PART NO
-08	1/2	CLCA-08	CLCS-08		CLCH-08
-12	3/4	CLCA-12	CLCS-12	CLCB-12	CLCH-12
-16	1	CLCA-16	CLCS-16	CLCB-16	CLCH-16
-20	1.1/4	CLCA-20	CLCS-20	CLCB-20	CLCH-20
-24	1.1/2	CLCA-24	CLCS-24	CLCB-24	CLCH-24
-32	2	CLCA-32	CLCS-32	CLCB-32	CLCH-32
-40	2.1/2	CLCA-40	CLCS-40	CLCB-40	CLCH-40
-48	3	CLCA-48	CLCS-48	CLCB-48	CLCH-48
-64	4	CLCA-64	CLCS-64	CLCB-64	CLCH-64
-80	5	CLCA-80	CLCS-80		CLCH-80
-96	6	CLCA-96	CLCS-96		CLCH-96



NOTE: Stainless Steel part shown to represent range.

CAMLOCKS		CLDA	CLDS	CLDB	CLDH
TYPE D  CAMLOCK COUPLINGS					
					
SIZE		ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE
Dash	inch	PART NO	PART NO	PART NO	PART NO
-08	1/2	CLDA-08	CLDS-08		CLDH-08
-12	3/4	CLDA-12	CLDS-12	CLDB-12	CLDH-12
-16	1	CLDA-16	CLDS-16	CLDB-16	CLDH-16
-20	1.1/4	CLDA-20	CLDS-20	CLDB-20	CLDH-20
-24	1.1/2	CLDA-24	CLDS-24	CLDB-24	CLDH-24
-32	2	CLDA-32	CLDS-32	CLDB-32	CLDH-32
-40	2.1/2	CLDA-40	CLDS-40	CLDB-40	CLDH-40
-48	3	CLDA-48	CLDS-48	CLDB-48	CLDH-48
-64	4	CLDA-64	CLDS-64	CLDB-64	CLDH-64
-80	5	CLDA-80	CLDS-80		CLDH-80
-96	6	CLDA-96	CLDS-96		CLDH-96



NOTE: Stainless Steel part shown to represent range.

COUPLINGS




CAMLOCKS

CAMLOCKS		CLEA	CLES	CLEB	CLEH
TYPE E  CAMLOCK COUPLINGS					
					
SIZE		ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE
Dash	inch	PART NO	PART NO	PART NO	PART NO
-08	1/2	CLEA-08	CLES-08		CLEH-08
-12	3/4	CLEA-12	CLES-12	CLEB-12	CLEH-12
-16	1	CLEA-16	CLES-16	CLEB-16	CLEH-16
-20	1.1/4	CLEA-20	CLES-20	CLEB-20	CLEH-20
-24	1.1/2	CLEA-24	CLES-24	CLEB-24	CLEH-24
-32	2	CLEA-32	CLES-32	CLEB-32	CLEH-32
-40	2.1/2	CLEA-40	CLES-40	CLEB-40	CLEH-40
-48	3	CLEA-48	CLES-48	CLEB-48	CLEH-48
-64	4	CLEA-64	CLES-64	CLEB-64	CLEH-64
-80	5	CLEA-80	CLES-80		CLEH-80
-96	6	CLEA-96	CLES-96		CLEH-96





NOTE: Stainless Steel part shown to represent range.

CAMLOCKS		CLFA	CLFS	CLFB	CLFH
TYPE F  CAMLOCK COUPLINGS					
					
SIZE		ALUMINIUM	STAINLESS STEEL	BRASS	POLYPROPYLENE
Dash	inch	PART NO	PART NO	PART NO	PART NO
-08	1/2	CLFA-08	CLFS-08		CLFH-08
-12	3/4	CLFA-12	CLFS-12	CLFB-12	CLFH-12
-16	1	CLFA-16	CLFS-16	CLFB-16	CLFH-16
-20	1.1/4	CLFA-20	CLFS-20	CLFB-20	CLFH-20
-24	1.1/2	CLFA-24	CLFS-24	CLFB-24	CLFH-24
-32	2	CLFA-32	CLFS-32	CLFB-32	CLFH-32
-40	2.1/2	CLFA-40	CLFS-40	CLFB-40	CLFH-40
-48	3	CLFA-48	CLFS-48	CLFB-48	CLFH-48
-64	4	CLFA-64	CLFS-64	CLFB-64	CLFH-64
-80	5	CLFA-80	CLFS-80		CLFH-80
-96	6	CLFA-96	CLFS-96		CLFH-96

NOTE: Stainless Steel part shown to represent range.

CAMLOCKS		CLSCU	CLPS	CLS	CLLB
SPARES    					
SIZE		SAFETY CLIP ZINC PLATED STEEL	PIN STAINLESS STEEL	LEVER STAINLESS STEEL	LEVER BRASS
Dash	inch	PART NO	PART NO	PART NO	PART NO
-08	1/2		CLPS-08	CLS-08	CLLB-08
-12	3/4				
-16	1	CLSCU-16	CLPS-16	CLS-16	CLLB-16
-20	1.1/4		CLPS-20	CLS-20	CLLB-20
-48	3		CLPS-48	CLS-48	CLLB-48
-64	4	CLSCU-64			
-96	6	CLSCU-96	CLPS-96	CLS-96	CLLB-96

NOTE: Stainless Steel part shown to represent CLS and CLLB.

CAMLOCKS		CLWN	CLWC	CLWV
WASHERS    				
SIZE		NITRILE	NEOPRENE	VITON
Dash	inch	PART NO	PART NO	PART NO
-08	1/2	CLWN-08	CLWC-08	CLWV-08
-12	3/4	CLWN-12	CLWC-12	CLWV-12
-16	1	CLWN-16	CLWC-16	CLWV-16
-20	1.1/4	CLWN-20	CLWC-20	CLWV-20
-24	1.1/2	CLWN-24	CLWC-24	CLWV-24
-32	2	CLWN-32	CLWC-32	CLWV-32
-40	2.1/2	CLWN-40	CLWC-40	CLWV-40
-48	3	CLWN-48	CLWC-48	CLWV-48
-64	4	CLWN-64	CLWC-64	CLWV-64
-80	5	CLWN-80	CLWC-80	CLWV-80
-96	6	CLWN-96	CLWC-96	CLWV-96

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS


CLAMPS


ACCESSORIES

TECHNICAL






COUPLINGS






CLAW COUPLINGS

CLAW COUPLINGS		CAMF	CAFF	CAMNF	CAFNF
TYPE A COUPLER  CLAW TYPE COUPLINGS WITH SAFETY COLLARS					
SIZE		BSP MALE CAST IRON ZINC PLATED	BSP FEMALE CAST IRON ZINC PLATED	NPT MALE CAST IRON ZINC PLATED	NPT FEMALE CAST IRON ZINC PLATED
Dash	inch	PART NO	PART NO	PART NO	PART NO
-06	3/8	CAMF-06	CAFF-06	CAMNF-06	CAFNF-06
-08	1/2	CAMF-08	CAFF-08	CAMNF-08	CAFNF-08
-12	3/4	CAMF-12	CAFF-12	CAMNF-12	CAFNF-12
-16	1	CAMF-16	CAFF-16	CAMNF-16	CAFNF-16
-20	1.1/4	CAMF-20	CAFF-20	CAMNF-20	CAFNF-20
-24	1.1/2	CAMF-24	CAFF-24	CAMNF-24	CAFNF-24
-32	2	CAMF-32	CAFF-32	CAMNF-32	CAFNF-32
-48	3	CAMF-48	CAFF-48	CAMNF-48	CAFNF-48

CLAW COUPLINGS		CAHF	CA3WF	CABF	CASN	CASCU
TYPE A COUPLER  CLAW TYPE COUPLINGS WITH SAFETY COLLARS						
SIZE		HOSETAIL CAST IRON ZINC PLATED	3-WAY COUPLER CAST IRON ZINC PLATED	COUPLER BLANK END CAST IRON ZINC PLATED	GASKET SEAL NITRILE	SAFETY CLIP ZINC PLATED STEEL
Dash	inch	PART NO	PART NO	PART NO	PART NO	PART NO
-06	3/8	CAHF-06				
-08	1/2	CAHF-08				
-12	3/4	CAHF-12				
-16	1	CAHF-16				
-20	1.1/4	CAHF-20	CA3WF-20	CABF-20	CASN-20	CASCU-20
-24	1.1/2	CAHF-24				
-32	2	CAHF-32	CA3WF-32	CABF-32	CASN-32	CASCU-32
-48	3	CAHF-48	CA3WF-48	CABF-48	CASN-48	CASCU-48

NOTE: NPT on request (minimum order quantity applies)

CLAW COUPLINGS		CBMF	CBFF	CBMNF	CBFNF
TYPE B COUPLER  <small>CLAW TYPE COUPLINGS WITH SAFETY COLLARS</small>					
					
SIZE		BSP MALE CAST IRON ZINC PLATED	BSP FEMALE CAST IRON ZINC PLATED	NPT MALE CAST IRON ZINC PLATED	NPT FEMALE CAST IRON ZINC PLATED
Dash	inch	PART NO	PART NO	PART NO	PART NO
-04	1/4	CBMF-04	CBFF-04	CBMNF-04	CBFNF-04
-06	3/8	CBMF-06	CBFF-06	CBMNF-06	CBFNF-06
-08	1/2	CBMF-08	CBFF-08	CBMNF-08	CBFNF-08
-12	3/4	CBMF-12	CBFF-12	CBMNF-12	CBFNF-12
-16	1	CBMF-16	CBFF-16	CBMNF-16	CBFNF-16
-20	1.1/4	CBMF-20	CBFF-20	CBMNF-20	CBFNF-20
-24	1.1/2	CBMF-24	CBFF-24	CBMNF-24	CBFNF-24
-32	2	CBMF-32	CBFF-32	CBMNF-32	CBFNF-32
-48	3	CBMF-48	CBFF-48	CBMNF-48	CBFNF-48

CLAW COUPLINGS		CBHF	CB3WF	CBBF	CBSN
TYPE B COUPLER  <small>CLAW TYPE COUPLINGS WITH SAFETY COLLARS</small>					
					
SIZE		HOSETAIL CAST IRON ZINC PLATED	3-WAY COUPLER CAST IRON ZINC PLATED	COUPLER BLANK END CAST IRON ZINC PLATED	GASKET SEAL NITRILE
Dash	inch	PART NO	PART NO	PART NO	PART NO
-04	1/4	CBHF-04			
-06	3/8	CBHF-06			
-08	1/2	CBHF-08			
-12	3/4	CBHF-12			
-16	1	CBHF-16	CB3WF-16	CBBF-16	
-20	1.1/4	CBHF-20			CBSN-20
-24	1.1/2	CBHF-24			
-32	2	CBHF-32			CBSN-32
-48	3	CBHF-48			CBSN-48

NOTE: NPT on request (minimum order quantity applies)

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS


CLAMPS


ACCESSORIES

TECHNICAL


COUPLINGS


CLAW COUPLINGS


CLAW COUPLINGS		CSMF	CSFF	CSMNF	CSFNF
TYPE S COUPLER  CLAW TYPE COUPLINGS WITH SAFETY COLLARS					
SIZE		BSP MALE CAST IRON ZINC PLATED	BSP FEMALE CAST IRON ZINC PLATED	NPT MALE CAST IRON ZINC PLATED	NPT FEMALE CAST IRON ZINC PLATED
Dash	inch	PART NO	PART NO	PART NO	PART NO
-06	3/8	CSMF-06	CSFF-06	CSMNF-06	CSFNF-06
-08	1/2	CSMF-08	CSFF-08	CSMNF-08	CSFNF-08
-12	3/4	CSMF-12	CSFF-12	CSMNF-12	CSFNF-12
-16	1	CSMF-16	CSFF-16	CSMNF-16	CSFNF-16
-20	1.1/4	CSMF-20	CSFF-20	CSMNF-20	CSFNF-20
-24	1.1/2	CSMF-24	CSFF-24	CSMNF-24	CSFNF-24
-32	2	CSMF-32	CSFF-32	CSMNF-32	CSFNF-32
-48	3	CSMF-48	CSFF-48	CSMNF-48	CSFNF-48

CLAW COUPLINGS		CSHF	CS3WF	CSBF	CSSN
TYPE S COUPLER  CLAW TYPE COUPLINGS WITH SAFETY COLLARS					
SIZE		HOSETAIL CAST IRON ZINC PLATED	3-WAY COUPLER CAST IRON ZINC PLATED	COUPLER BLANK END CAST IRON ZINC PLATED	GASKET SEAL NITRILE
Dash	inch	PART NO	PART NO	PART NO	PART NO
-06	3/8	CSHF-06			
-08	1/2	CSHF-08			
-12	3/4	CSHF-12			
-16	1	CSHF-16			
-20	1.1/4	CSHF-20	CS3WF-20	CSBF-20	CSSN-20
-24	1.1/2	CSHF-24			
-32	2	CSHF-32	CS3WF-32	CSBF-32	CSSN-32
-48	3	CSHF-48	CS3WF-48	CSBF-48	CSSN-48

NOTE: NPT on request (minimum order quantity applies)

CLAW COUPLINGS		CUMF	CUFF	CUMNF	CUFNF
UNIVERSAL COUPLER  <small>CLAW TYPE COUPLINGS WITH SAFETY COLLARS</small>					
SIZE		BSP MALE CAST IRON ZINC PLATED	BSP FEMALE CAST IRON ZINC PLATED	NPT MALE CAST IRON ZINC PLATED	NPT FEMALE CAST IRON ZINC PLATED
Dash	inch	PART NO	PART NO	PART NO	PART NO
-04	1/4	CUMF-04	CUFF-04	CUMNF-04	CUFNF-04
-06	3/8	CUMF-06	CUFF-06	CUMNF-06	CUFNF-06
-08	1/2	CUMF-08	CUFF-08	CUMNF-08	CUFNF-08
-12	3/4	CUMF-12	CUFF-12	CUMNF-12	CUFNF-12
-16	1	CUMF-16	CUFF-16	CUMNF-16	CUFNF-16

CLAW COUPLINGS		CUHF	CU3WF	CUBF	CUSN	CUSCU
UNIVERSAL COUPLER  <small>CLAW TYPE COUPLINGS WITH SAFETY COLLARS</small>						
SIZE		HOSETAIL CAST IRON ZINC PLATED	3-WAY COUPLER CAST IRON ZINC PLATED	COUPLER BLANK END CAST IRON ZINC PLATED	GASKET SEAL NITRILE	SAFETY CLIP ZINC PLATED STEEL
Dash	inch	PART NO	PART NO	PART NO	PART NO	PART NO
-04	1/4	CUHF-04				
-06	3/8	CUHF-06				
-08	1/2	CUHF-08				
-12	3/4	CUHF-12				
-16	1	CUHF-16	CU3WF-16	CUBF-16	CUSN-16	CUSCU-16







CLAW COUPLINGS		CKMF	CKFF	CKMNF	CKFNF
AIR KING COUPLER  <small>CLAW TYPE COUPLINGS WITH SAFETY COLLARS</small>					
SIZE		BSP MALE CAST IRON ZINC PLATED	BSP FEMALE CAST IRON ZINC PLATED	NPT MALE CAST IRON ZINC PLATED	NPT FEMALE CAST IRON ZINC PLATED
Dash	inch	PART NO	PART NO	PART NO	PART NO
-04	1/4	CKMF-04	CKFF-04	CKMNF-04	CKFNF-04
-06	3/8	CKMF-06	CKFF-06	CKMNF-06	CKFNF-06
-08	1/2	CKMF-08	CKFF-08	CKMNF-08	CKFNF-08
-12	3/4	CKMF-12	CKFF-12	CKMNF-12	CKFNF-12
-16	1	CKMF-16	CKFF-16	CKMNF-16	CKFNF-16




NOTE: NPT on request (minimum order quantity applies)

- INTRODUCTION
- HOSE
- COUPLINGS
- ADAPTORS
- CLAMPS
- ACCESSORIES
- TECHNICAL


COUPLINGS

CLAW COUPLINGS

CLAW COUPLINGS		CKHF	CK3WF	CKBF	CKSN	CKSCU
AIR KING COUPLER  CLAW TYPE COUPLINGS WITH SAFETY COLLARS						
SIZE		HOSETAIL CAST IRON ZINC PLATED	3-WAY COUPLER CAST IRON ZINC PLATED	COUPLER BLANK END CAST IRON ZINC PLATED	GASKET SEAL NITRILE	SAFETY CLIP ZINC PLATED STEEL
Dash	inch	PART NO	PART NO	PART NO	PART NO	PART NO
-06	1/4	CKHF-06				
-08	3/8	CKHF-08				
-10	1/2	CKHF-10				
-12	3/4	CKHF-12				
-16	1	CKHF-16	CK3WF-16	CKBF-16	CKSN-16	CKSCU-16

COMBINATION HOSE NIPPLES		HNU	HNNU
 COMBINATION HOSE NIPPLES			
SIZE		BSP MALE HOSETAIL ZINC PLATED STEEL	NPT MALE HOSETAIL ZINC PLATED STEEL
Dash	inch	PART NO	PART NO
-08	1/2	HNU-0808	HNNU-0808
-12	3/4	HNU-1212	HNNU-1212
-16	1	HNU-1616	HNNU-1616
-20	1.1/4	HNU-2020	HNNU-2020
-24	1.1/2	HNU-2424	HNNU-2424
-32	2	HNU-3232	HNNU-3232
-40	2.1/2	HNU-4040	HNNU-4040
-48	3	HNU-4848	HNNU-4848
-64	4	HNU-6464	HNNU-6464
-80	5	HNU-8080	HNNU-8080
-96	6	HNU-9696	HNNU-9696
-128	8	HNU-128128	HNNU-128128
-160	10	HNU-160160	HNNU-160160
-192	12	HNU-192192	HNNU-192192

NOTE: NPT on request (minimum order quantity applies)

HOSE MENDER		HMU
		
SIZE		HOSE MENDER ZINC PLATED STEEL
Dash	inch	PART NO
-08	1/2	HMU-08
-12	3/4	HMU-12
-16	1	HMU-16
-20	1.1/4	HMU-20
-24	1.1/2	HMU-24
-32	2	HMU-32
-40	2.1/2	HMU-40
-48	3	HMU-48

STEAM FITTINGS		SJMSF	SJMSU	SGJU	SGJFSU
<p>STEAM GROUND JOINT COUPLINGS</p>					
SIZE		BSP MALE STEM CAST IRON	BSP MALE STEM ZINC PLATED STEEL	BSP FEMALE GROUND JOINT STEAM CAST IRON	GJ BSPT FEMALE BUSH ZINC PLATED STEEL
Dash	inch	PART NO	PART NO	PART NO	PART NO
-04	1/4	SJMSF-04	SJMSU-04	SGJU-04	SGJFSU-04
-06	3/8	SJMSF-06	SJMSU-06	SGJU-06	SGJFSU-06
-08	1/2	SJMSF-08	SJMSU-08	SGJU-08	SGJFSU-08
-12	3/4	SJMSF-12	SJMSU-12	SGJU-12	SGJFSU-12
-16	1	SJMSF-16	SJMSU-16	SGJU-16	SGJFSU-16
-20	1.1/4	SJMSF-20	SJMSU-20	SGJU-20	SGJFSU-20
-24	1.1/2	SJMSF-24	SJMSU-24	SGJU-24	SGJFSU-24
-32	2	SJMSF-32	SJMSU-32	SGJU-32	SGJFSU-32
-40	2.1/2	SJMSF-40	SJMSU-40	SGJU-40	SGJFSU-40
-48	3	SJMSF-48	SJMSU-48	SGJU-48	SGJFSU-48
-64	4	SJMSF-64		SGJU-64	SGJFSU-64

NOTE: Zinc Plated Steel part shown to represent SJMSF and SJMSU.

STEAM FITTINGS		SHMF
<p>STEAM GROUND JOINT COUPLINGS</p>		
SIZE		HOSE MENDER CAST IRON
Dash	inch	PART NO
-08	1/2	SHMF-08
-12	3/4	SHMF-12
-16	1	SHMF-16
-20	1.1/4	SHMF-20
-24	1.1/2	SHMF-24
-32	2	SHMF-32
-40	2.1/2	SHMF-40
-48	3	SHMF-48

STEAM FITTINGS		SGJWNF
<p>STEAM GROUND JOINT COUPLINGS</p>		
SIZE		GJ WING NUT CAST IRON ZINC PLATED
Dash	inch	PART NO
-04	1/4	SGJWNF-04
-06	3/8	SGJWNF-06
-08	1/2	SGJWNF-08
-16	1	SGJWNF-16
-24	1.1/2	SGJWNF-24
-32	2	SGJWNF-32
-40	2.1/2	SGJWNF-40
-48	3	SGJWNF-48

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

COUPLINGS

HYGIENIC FITTINGS

HYGIENIC FITTINGS		BSMBCS	BSMCS	BSMSE	BSMNS
BSM  HYGIENIC INDUSTRY COUPLINGS					
SIZE		BSM BLANK CAP STAINLESS STEEL	BSM FEMALE CAP STAINLESS STEEL	BSM SEAL EPDM	BSM FEMALE NUT STAINLESS STEEL
Dash	inch	PART NO	PART NO	PART NO	PART NO
-16	1	BSMBCS-16	BSMCS-16	BSMSE-16	BSMNS-16
-20	1.1/4	BSMBCS-20	BSMCS-20	BSMSE-20	BSMNS-20
-24	1.1/2	BSMBCS-24	BSMCS-24	BSMSE-24	BSMNS-24
-32	2	BSMBCS-32	BSMCS-32	BSMSE-32	BSMNS-32
-40	2.1/2	BSMBCS-40	BSMCS-40	BSMSE-40	BSMNS-40
-48	3	BSMBCS-48	BSMCS-48	BSMSE-48	BSMNS-48
-64	4	BSMBCS-64	BSMCS-64	BSMSE-64	BSMNS-64

HYGIENIC FITTINGS		BSMMS	BSMFS	BSMMWS	BSMFWS
BSM  HYGIENIC INDUSTRY COUPLINGS					
SIZE		BSM MALE HOSETAIL STAINLESS STEEL	BSM FEMALE HOSETAIL STAINLESS STEEL	BSM MALE WELD-ON STAINLESS STEEL	BSM FEMALE LINER WELD-ON STAINLESS STEEL
Dash	inch	PART NO	PART NO	PART NO	PART NO
-16	1	BSMMS-16	BSMFS-16	BSMMWS-16	BSMFWS-16
-20	1.1/4	BSMMS-20	BSMFS-20	BSMMWS-20	BSMFWS-20
-24	1.1/2	BSMMS-24	BSMFS-24	BSMMWS-24	BSMFWS-24
-32	2	BSMMS-32	BSMFS-32	BSMMWS-32	BSMFWS-32
-40	2.1/2	BSMMS-40	BSMFS-40	BSMMWS-40	BSMFWS-40
-48	3	BSMMS-48	BSMFS-48	BSMMWS-48	BSMFWS-48
-64	4	BSMMS-64	BSMFS-64	BSMMWS-64	BSMFWS-64

HYGIENIC FITTINGS		TRHS	TRWS	TRICLS	TRSE
TRICLOVER 					
SIZE		TRICLOVER HOSETAIL STAINLESS STEEL	TRICLOVER FERRULE WELD-ON STAINLESS STEEL	TRICLOVER CLAMP STAINLESS STEEL	TRICLOVER SEAL EPDM
Dash	inch	PART NO	PART NO	PART NO	PART NO
-16	1	TRHS-16	TRWS-16	TRICLS-24	TRSE-16
-20	1.1/4	TRHS-20	TRWS-20	TRICLS-24	TRSE-20
-24	1.1/2	TRHS-24	TRWS-24	TRICLS-24	TRSE-24
-32	2	TRHS-32	TRWS-32	TRICLS-32	TRSE-32
-40	2.1/2	TRHS-40	TRWS-40	TRICLS-40	TRSE-40
-48	3	TRHS-48	TRWS-48	TRICLS-48	TRSE-48
-64	4	TRHS-64	TRWS-64	TRICLS-64	TRSE-64

IRRIGATION FITTINGS		BMG	BFG	BCG	BSR	BSETG
SIZE		IRRIGATION MALE BALL HOSETAIL GALVANISED STEEL	IRRIGATION FEMALE SOCKET HOSETAIL GALVANISED STEEL	IRRIGATION CLOSURE RING GALVANISED STEEL	IRRIGATION O-SEAL	IRRIGATION BALL AND SOCKET HOSETAIL SET COMPLETE GALVANISED STEEL
Dash	inch	PART NO	PART NO	PART NO	PART NO	PART NO
-32	2	BMG-32	BFG-32	BCG-32	BSR-32	BSETG-32
-40	2.1/2	BMG-40	BFG-40	BCG-40	BSR-40	BSETG-40
-48	3	BMG-48	BFG-48	BCG-48	BSR-48	BSETG-48
-64	4	BMG-64	BFG-64	BCG-64	BSR-64	BSETG-64
-80	5	BMG-80	BFG-80	BCG-80	BSR-80	BSETG-80
-96	6	BMG-96	BFG-96	BCG-96	BSR-96	BSETG-96
-128	8	BMG-128	BFG-128	BCG-128	BSR-128	BSETG-128

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS







CLAMPS







ACCESSORIES







TECHNICAL

COUPLINGS

IRRIGATION AND FIRE FITTINGS

FIRE FITTINGS		CFAMHB	CFAFHB	CFAPB	CFACB	CFAWE
CFA  MP >300 PSI HOSE TAIL COUPLINGS						
SIZE		CFA MALE HOSETAIL BRASS	CFA FEMALE HOSETAIL BRASS	CFA MALE PLUG BRASS	CFA FEMALE CAP BRASS	CFA WASHER EPDM
Dash	inch	PART NO	PART NO	PART NO	PART NO	PART NO
-24	1.1/2	CFAMHB-24	CFAFHB-24	CFAPB	CFACB	CFAWE
-32	2	CFAMHB-32	CFAFHB-32	CFAPB	CFACB	CFAWE
-40	2.1/2	CFAMHB-40	CFAFHB-40	CFAPB	CFACB	CFAWE
-48	3	CFAMHB-48	CFAFHB-48	CFAPB	CFACB	CFAWE

FIRE FITTINGS		MFBMHB	MFBFHB	MFBPB	MFBCB	MFBWE
MFB  MP >300 PSI HOSE TAIL COUPLINGS						
SIZE		MFB MALE HOSETAIL BRASS	MFB FEMALE HOSETAIL BRASS	MFB MALE PLUG BRASS	MFB FEMALE CAP BRASS	MFB WASHER EPDM
Dash	inch	PART NO	PART NO	PART NO	PART NO	PART NO
-24	1.1/2	MFBMHB-24	MFBFHB-24	MFBPB	MFBCB	MFBWE
-32	2	MFBMHB-32	MFBFHB-32	MFBPB	MFBCB	MFBWE
-40	2.1/2	MFBMHB-40	MFBFHB-40	MFBPB	MFBCB	MFBWE
-48	3	MFBMHB-48	MFBFHB-48	MFBPB	MFBCB	MFBWE

FIRE FITTINGS		SZMA	SZFA	SZHA	SZCA	SZSE
STORZ  >300 PSI HOSE TAIL COUPLINGS						
						
SIZE		STORZ BSPT MALE ALUMINIUM	STORZ BSPT FEMALE ALUMINIUM	STORZ HOSETAIL ALUMINIUM	STORZ CAP ALUMINIUM	STORZ SEAL EPDM
Dash	inch	PART NO	PART NO	PART NO	PART NO	PART NO
-16	1	SZMA-1616	SZFA-1616	SZHA-1616	SZCA-16	SZSE-16
-24	1.1/2	SZMA-2424	SZFA-2424	SZHA-2424	SZCA-24	SZSE-24
-32	2	SZMA-3232	SZFA-3232	SZHA-3232	SZCA-32	SZSE-32
-40	2.1/2	SZMA-4040	SZFA-4040	SZHA-4040	SZCA-40	SZSE-40
-48	3	SZMA-4848	SZFA-4848	SZHA-4848	SZCA-48	SZSE-48
-64	4	SZMA-6464	SZFA-6464	SZHA-6464	SZCA-64	SZSE-64
-80	5	SZMA-8080	SZFA-8080	SZHA-8080	SZCA-80	SZSE-80
-96	6	SZMA-9696	SZFA-9696	SZHA-9696	SZCA-96	SZSE-96

FIRE FITTINGS		WJMA	WJFA	WJCA	WJSE
WAJAX  >300 PSI HOSE TAIL COUPLINGS					
					
SIZE		WAJAX BSPT MALE ALUMINIUM	WAJAX BSPT FEMALE ALUMINIUM	WAJAX CAP ALUMINIUM	WAJAX SEAL EPDM
Dash	inch	PART NO	PART NO	PART NO	PART NO
-12	3/4	WJMA-12	WJFA-12	WJCA	WJSE
-16	1	WJMA-16	WJFA-16	WJCA	WJSE
-20	1.1/4	WJMA-20	WJFA-20	WJCA	WJSE
-24	1.1/2	WJMA-24	WJFA-24	WJCA	WJSE
-32	2	WJMA-32	WJFA-32	WJCA	WJSE

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS




CLAMPS





ACCESSORIES

TECHNICAL






COUPLINGS

PIPE GROOVED, SHOULDERED AND MUFF COUPLINGS

PIPE GROOVED AND SHOULDERED		HPGU	HPSU
 HARDENED HOSE TAIL COUPLINGS			
SIZE		PIPE GROOVED END (VICTAULIC) STEEL	PIPE SHOULDERED END (VICTAULIC) STEEL
Dash	inch	PART NO	PART NO
-20	1.1/4	HPGU-2020	HPSU-2020
-24	1.1/2	HPGU-2424	HPSU-2424
-32	2	HPGU-3232	HPSU-3232
-40	2.1/2	HPGU-4040	HPSU-4040
-48	3	HPGU-4848	HPSU-4848
-64	4	HPGU-6464	HPSU-6464
-80	5	HPGU-8080	HPSU-8080
-96	6	HPGU-9696	HPSU-9696
-128	8	HPGU-128128	HPSU-128128
-160	10	HPGU-160160	HPSU-160160

MUFF COUPLINGS		MUDA	MUEA	MUA15A
 USE ONLY APPLICATION APPROVED FITTING				
SIZE		MUFF COUPLING D ALUMINIUM	MUFF COUPLING E ALUMINIUM	MUFF COUPLING ANSI 150 ALUMINIUM
Dash	inch	PART NO	PART NO	PART NO
-32	2	MUDA-32	MUEA-32	MUA15A-32
-48	3	MUDA-48	MUEA-48	MUA15A-48
-64	4	MUDA-64	MUEA-64	MUA15A-64
-80	5	MUDA-80	MUEA-80	MUA15A-80
-96	6	MUDA-96	MUEA-96	MUA15A-96
-128	8	MUDA-128	MUEA-128	MUA15A-128
-160	10	MUDA-160	MUEA-160	MUA15A-160
-192	12	MUDA-192	MUEA-192	MUA15A-192

NOTE: Use only with the correct outside diameter sized Muff Coupling hose.

HOSE TAIL			HMB	HMS	HMH	HMSB
MALE 						
						
			BSPT MALE (WITH HEX) BRASS	BSPT MALE (WITH HEX) STAINLESS STEEL	BSPT MALE (WITH HEX) POLYPROPYLENE	BSPT MALE SWIVEL (WITH HEX) BRASS
			P3			SP3
Dash	inch	inch	PART NO	PART NO	PART NO	PART NO
-0202	1/8	1/8	HMB-0202			
-0302	3/16	1/8	HMB-0302			
-0304	3/16	1/4	HMB-0304			
-0402	1/4	1/8	HMB-0402			
-0404	1/4	1/4	HMB-0404	HMS-0404		HMSB-0404
-0406	1/4	3/8	HMB-0406			
-0408	1/4	1/2	HMB-0408			
-0502	5/16	1/8	HMB-0502			
-0504	5/16	1/4	HMB-0504			
-0506	5/16	3/8	HMB-0506			
-0508	5/16	1/2	HMB-0508			
-0602	3/8	1/8	HMB-0602			
-0604	3/8	1/4	HMB-0604			
-0606	3/8	3/8	HMB-0606	HMS-0606		HMSB-0606
-0608	3/8	1/2	HMB-0608			
-0612	3/8	3/4	HMB-0612			
-0802	1/2	1/8	HMB-0802			
-0804	1/2	1/4	HMB-0804			
-0806	1/2	3/8	HMB-0806			
-0808	1/2	1/2	HMB-0808	HMS-0808	HMH-0808	HMSB-0808
-0812	1/2	3/4	HMB-0812			HMSB-0812
-1004	5/8	1/4	HMB-1004			
-1006	5/8	3/8	HMB-1006			
-1008	5/8	1/2	HMB-1008			
-1012	5/8	3/4	HMB-1012			
-1206	3/4	3/8	HMB-1206			
-1208	3/4	1/2	HMB-1208			
-1212	3/4	3/4	HMB-1212	HMS-1212	HMH-1212	HMSB-1212
-1216	3/4	1	HMB-1216			
-1608	1	1/2	HMB-1608			
-1612	1	3/4	HMB-1612			
-1616	1	1	HMB-1616	HMS-1616	HMH-1616	HMSB-1616
-2020	1.1/4	1.1/4	HMB-2020	HMS-2020	HMH-2020	
-2424	1.1/2	1.1/2			HMH-2424	
-3232	2	2	HMB-3232	HMS-3232	HMH-3232	
-4040	2.1/2	2.1/2	HMB-4040	HMS-4040		
-4848	3	3	HMB-4848	HMS-4848	HMH-4848	
-6464	4	4	HMB-6464	HMS-6464		

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS



CLAMPS



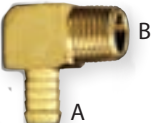
ACCESSORIES

TECHNICAL

COUPLINGS

HOSE TAIL FITTINGS

HOSE TAIL FITTINGS		HJB	HJU	HJS
MENDERS  >300 PSI HOSE TAIL COUPLINGS				
				
		B A	B A	B A
SIZE		HOSE TAIL MENDER BRASS	HOSE TAIL MENDER ZINC PLATED STEEL	HOSE TAIL MENDER STAINLESS STEEL
		P7		
Dash	inch	PART NO	PART NO	PART NO
-0303	3/16	HJB-0303		
-0404	1/4	HJB-0404	HJU-0404	HJS-0404
-0505	5/16	HJB-0505		
-0606	3/8	HJB-0606	HJU-0606	HJS-0606
-0808	1/2	HJB-0808	HJU-0808	HJS-0808
-1010	5/8	HJB-1010	HJU-1010	HJS-1010
-1212	3/4	HJB-1212	HJU-1212	HJS-1212
-1616	1	HJB-1616	HJU-1616	HJS-1616
-2020	1.1/4		HJU-2020	HJS-2020
-2222	1.3/8		HJU-2222	HJS-2222
-2424	1.1/2		HJU-2424	HJS-2424
-3232	2		HJU-3232	HJS-3232
-4040	2.1/2		HJU-4040	HJS-4040
-4848	3		HJU-4848	HJS-4848
-6464	4		HJU-6464	HJS-6464
-8080	5		HJU-8080	
-9696	6		HJU-9696	
-128128	8		HJU-128128	
-160160	10		HJU-160160	
-192192	12		HJU-192192	

HOSE TAIL			HEB	HEMB										
90°  >300 PSI HOSE TAIL COUPLINGS														
														
<table border="1"> <thead> <tr> <th colspan="2">SIZE</th> <th rowspan="2">ELBOW 90° HOSE TAIL BRASS</th> <th rowspan="2">ELBOW 90° HOSE TAIL BSPT MALE BRASS</th> </tr> <tr> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td colspan="2"></td> <td>P11</td> <td>P6</td> </tr> </tbody> </table>			SIZE		ELBOW 90° HOSE TAIL BRASS	ELBOW 90° HOSE TAIL BSPT MALE BRASS	A	B			P11	P6		
SIZE		ELBOW 90° HOSE TAIL BRASS	ELBOW 90° HOSE TAIL BSPT MALE BRASS											
A	B													
		P11	P6											

Dash	inch	inch	PART NO	PART NO
-0202	1/8	1/8		HEMB-0202
-0302	3/16	1/8		HEMB-0302
-0303	3/16	3/16	HEB-0303	
-0304	3/16	1/4		HEMB-0304
-0402	1/4	1/8		HEMB-0402
-0404	1/4	1/4	HEB-0404	HEMB-0404
-0406	1/4	3/8		HEMB-0406
-0408	1/4	1/2		HEMB-0408
-0502	5/16	1/8		HEMB-0502
-0504	5/16	1/4		HEMB-0504
-0505	5/16	5/16	HEB-0505	
-0506	5/16	3/8		HEMB-0506
-0508	5/16	1/2		HEMB-0508
-0602	3/8	1/8		HEMB-0602
-0604	3/8	1/4		HEMB-0604
-0606	3/8	3/8	HEB-0606	HEMB-0606
-0608	3/8	1/2		HEMB-0608
-0804	1/2	1/4		HEMB-0804
-0806	1/2	3/8		HEMB-0806
-0808	1/2	1/2	HEB-0808	HEMB-0808
-0812	1/2	3/4		HEMB-0812
-1004	5/8	1/4		HEMB-1004
-1006	5/8	3/8		HEMB-1006
-1008	5/8	1/2		HEMB-1008
-1010	5/8	5/8	HEB-1010	
-1208	3/4	1/2		HEMB-1208
-1212	3/4	3/4	HEB-1212	HEMB-1212
-1612	1	3/4		HEMB-1612
-1616	1	1	HEB-1616	HEMB-1616

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS


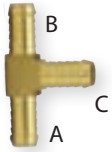

CLAMPS

ACCESSORIES

TECHNICAL



COUPLINGS


HOSE TAIL FITTINGS

HOSE TAIL				HTB	HTMB				
TEE  >300 PSI HOSE TAIL COUPLINGS									
SIZE				TEE HOSE TAIL BRASS	TEE HOSE TAIL BSPT MALE (BRANCH) BRASS				
A	B	C		P14	P12				

Dash	inch	inch	inch	PART NO	PART NO
-020202	1/8	1/8	1/8	HTB-020202	
-030302	3/16	3/16	1/8		HTMB-030302
-030303	3/16	3/16	3/16	HTB-030303	
-040402	1/4	1/4	1/8		HTMB-040402
-040404	1/4	1/4	1/4	HTB-040404	HTMB-040404
-050502	5/16	5/16	1/8		HTMB-050502
-050504	5/16	5/16	1/4		HTMB-050504
-050505	5/16	5/16	5/16	HTB-050505	
-060602	3/8	3/8	1/8		HTMB-060602
-060604	3/8	3/8	1/4		HTMB-060604
-060606	3/8	3/8	3/8	HTB-060606	HTMB-060606
-060608	3/8	3/8	1/2		HTMB-060608
-080804	1/2	1/2	1/4		HTMB-080804
-080806	1/2	1/2	3/8		HTMB-080806
-080808	1/2	1/2	1/2	HTB-080808	HTMB-080808
-101006	5/8	5/8	3/8		HTMB-101006
-101010	5/8	5/8	5/8	HTB-101010	
-121208	3/4	3/4	1/2		HTMB-121208
-121212	3/4	3/4	3/4	HTB-121212	HTMB-121212
-141412	7/8	7/8	3/4		HTMB-141412
-161612	1	1	3/4		HTMB-161612
-161616	1	1	1		HTMB-161616

HOSE TAIL			HFLB	HFLH	HFHB
FEMALE  >300 PSI HOSE TAIL COUPLINGS					
					
			A B	A B	A B
			HOSE TAIL FEMALE LUG NUT (BSPP FEMALE SWIVEL, FLAT SEAT)	HOSE TAIL FEMALE LUG NUT (BSPP FEMALE SWIVEL FLAT SEAL) POLYPROPYLENE	HOSE TAIL FEMALE HEX NUT (BSPP FEMALE SWIVEL, FLAT SEAT) BRASS
Dash	SIZE		PART NO	PART NO	PART NO
	A	B			
-0808	1/2	1/2	HFLB-0808	HFLH-0808	HFHB-0808
-0812	1/2	3/4	HFLB-0812		HFHB-0812
-1212	3/4	3/4	HFLB-1212	HFLH-1212	HFHB-1212
-0816	1/2	1	HFLB-0816		HFHB-0816
-1216	3/4	1	HFLB-1216		HFHB-1216
-1616	1	1	HFLB-1616	HFLH-1616	HFHB-1616
-1620	1	1.1/4	HFLB-1620		HFHB-1620
-2020	1.1/4	1.1/4	HFLB-2020	HFLH-2020	HFHB-2020
-2024	1.1/4	1.1/2	HFLB-2024		HFHB-2024
-2424	1.1/2	1.1/2	HFLB-2424	HFLH-2424	HFHB-2424
-2432	1.1/2	2	HFLB-2432		HFHB-2432
-3232	2	2	HFLB-3232	HFLH-3232	HFHB-3232
-4040	2.1/2	2.1/2	HFLB-4040		HFHB-4040
-4848	3	3	HFLB-4848	HFLH-4848	HFHB-4848
-6464	4	4	HFLB-6464		HFHB-6464

HOSE TAIL			HFB
FEMALE  >300 PSI HOSE TAIL COUPLINGS			
			
			A B
			HOSE TAIL BSPP FEMALE SWIVEL (60° CONE, HEX NUT) BRASS
			P5
Dash	SIZE		PART NO
	A	B	
-0302	3/16	1/8	HFB-0302
-0304	3/16	1/4	HFB-0304
-0404	1/4	1/4	HFB-0404
-0406	1/4	3/8	HFB-0406
-0504	5/16	1/4	HFB-0504
-0506	5/16	3/8	HFB-0506
-0508	5/16	1/2	HFB-0508
-0606	3/8	3/8	HFB-0606
-0608	3/8	1/2	HFB-0608
-0808	1/2	1/2	HFB-0808
-1212	3/4	3/4	HFB-1212

HOSE TAIL			HFWE
WASHER 			
			FLAT WASHER (SUIT HFLB, HFLH, HFHB)
Dash	SIZE		PART NO
	A	B	
-08	1/2		HFWE-08
-12	3/4		HFWE-12
-16	1		HFWE-16
-20	1.1/4		HFWE-20
-24	1.1/2		HFWE-24
-32	2		HFWE-32
-40	2.1/2		HFWE-40
-48	3		HFWE-48
-64	4		HFWE-64

- INTRODUCTION
- HOSE
- COUPLINGS
- ADAPTORS
- CLAMPS
- ACCESSORIES
- TECHNICAL

ADAPTORS



PICTORIAL INDEX

BRASS

RX64B P154	RX33 P154	RX27B P155	RX26B P155	RX72B P155	RXD48B P156	RXD25B P156
BSPT MALE PLUG	BSPT FEMALE CAP	STRAIGHT MALE NIPPLE HEX	STRAIGHT FEMALE SOCKET HEX	STRAIGHT BSPT MALE BSPT FEMALE	BSPT MALE BSPT MALE ELBOW 45°	BSPT MALE BSPT FEMALE ELBOW 45°

BRASS

RXD34B P156	RX48B P156	RX25B P156	RX34B P156	RXM35B P157	RXB35B P157	RX35B P157
BSPT FEMALE BSPT FEMALE ELBOW 45°	BSPT MALE BSPT MALE ELBOW 90°	BSPT MALE BSPT FEMALE ELBOW 90°	BSPT FEMALE BSPT FEMALE ELBOW 90°	BSPT MALE TEE	BSPT FEMALE BSPT MALE (BRANCH) TEE	BSPT FEMALE TEE

BRASS

RX37B P157	RX24B P158					
BSPT FEMALE CROSS	REDUCING BUSH					

STAINLESS STEEL

RX64S P159	RX64NS P159	RX33S P159	RX33NS P159	RX27S P159	RX27NS P159	RX88S P159
BSPT MALE PLUG	NPT MALE PLUG	BSPT FEMALE CAP	NPT FEMALE CAP	BSPT MALE NIPPLE HEX	NPT MALE NIPPLE HEX	NPT MALE NIPPLE TOE

STAINLESS STEEL

RX26S P160	RX26NS P160	RXH26S P160	RXH26NS P160	RXD25S P160	RXD34S P160	RX25S P160
BSPT FEMALE SOCKET HEX	NPT FEMALE SOCKET HEX	BSPT FEMALE SOCKET TOE	NPT FEMALE SOCKET TOE	BSPT MALE BSPT FEMALE 45° ELBOW	BSPT FEMALE BSPT FEMALE 45° ELBOW	BSPT MALE BSPT FEMALE 90° ELBOW







STAINLESS STEEL

RX34S P160	RX35S P161	RX24S P161				
BSPT FEMALE BSPT FEMALE 90° ELBOW	BSPT FEMALE TEE	REDUCING BUSH				








ADAPTORS

PICTORIAL INDEX

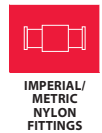
GALVANISED

RX64G P162	RX33G P162	RX27G P162	RX26G P162	RXD25S P163	RXD34S P163
					
BSPT MALE PLUG	BSPT FEMALE CAP	BSPT MALE NIPPLE HEX	BSPT FEMALE SOCKET TOE	BSPT MALE BSPT FEMALE 45° ELBOW	BSPT FEMALE BSPT FEMALE 45° ELBOW

GALVANISED

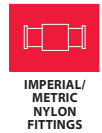
RX25G P164	RX34G P164	RXB25G P164	RXB34G P164	RX35G P165	RX37G P165	RX24G P166
						
BSPT MALE BSPT MALE 90° ELBOW	BSPT MALE BSPT FEMALE 90° ELBOW	BSPT MALE BSPT FEMALE 90° ELBOW BEND	BSPT FEMALE BSPT FEMALE 90° ELBOW BEND	BSPT FEMALE TEE	BSPT FEMALE CROSS	REDUCING BUSH


QUICK FIT IMPERIAL



RQF3 P167	RQF4 P167	RQF5 P167	RQF11 P167	RQF12 P167	RQF14 P167	RQF31 P167
						
QUICK FIT BSPTM PLASTIC	QUICK FIT STRAIGHT COUPLING PLASTIC	QUICK FIT BSPTM 90° ELBOW PLASTIC	QUICK FIT 90° ELBOW PLASTIC	QUICK FIT BSPTM BRANCH TEE PLASTIC	QUICK FIT EQUAL TEE PLASTIC	QUICK FIT BULKHEAD STRAIGHT PLASTIC


QUICK FIT METRIC



RQFM3 P168	RQFM4 P169	RQFM5 P168	RQFM11 P169	RQFM12 P168	RQFM14 P169	RQFM31 P169
						
QUICK FIT BSPTM PLASTIC	QUICK FIT STRAIGHT COUPLING PLASTIC	QUICK FIT BSPTM 90° ELBOW PLASTIC	QUICK FIT 90° ELBOW PLASTIC	QUICK FIT BSPTM BRANCH TEE PLASTIC	QUICK FIT EQUAL TEE PLASTIC	QUICK FIT BULKHEAD STRAIGHT PLASTIC

FLANGES






FDHG P170					
					
FLANGE D X HOSETAIL					

FLANGES

FDWU P170	FDBU P170	FDSU P170	FEWU P170	FEBU P170	FESU P170
					
FLANGE D WELD-ON	FLANGE D BLANK	FLANGE D SLIP-ON	FLANGE E WELD-ON	FLANGE E BLANK	FLANGE E SLIP-ON

FLANGES

FHWU P170	FHBU P171	FHSU P171	FAN15WU P171	FAN15BU P171	FAN15SU P171
					
FLANGE F WELD-ON	FLANGE F BLANK	FLANGE F SLIP-ON	FLANGE ANSI 150 WELD-ON	FLANGE ANSI 150 BLANK	FLANGE ANSI 150 SLIP-ON







HAMMER UNION

RF100 P172	RF100BW P172	RF100W P172	RF100N P172	RF200 P172	RF200BW P172	RF200W P172
						
FIGURE 100 PAINTED STEEL	FIGURE 100 BUTT-WELD PAINTED STEEL	FIGURE 100 SEAL	FIGURE 100 NUT PAINTED STEEL	FIGURE 200 PAINTED STEEL	FIGURE 200 BUTT-WELD PAINTED STEEL	FIGURE 200 SEAL

HAMMER UNION



RF200N P172	RF206 P173	RF206W P173	RF206N P173	RF602 P173	RF602W P173	RF602N P173
						
FIGURE 200 NUT PAINTED STEEL	FIGURE 206 PAINTED STEEL	FIGURE 206 SEAL	FIGURE 206 NUT PAINTED STEEL	FIGURE 602 PAINTED STEEL	FIGURE 602 SEAL	FIGURE 602 NUT PAINTED STEEL

HAMMER UNION

RF1002 P174	RF1002W P174	RF1002N P174	RF1502 P174	RF1502W P174	RF1502N P174
					
FIGURE 1002 PAINTED STEEL	FIGURE 1002 SEAL	FIGURE 1002 NUT PAINTED STEEL	FIGURE 1502 PAINTED STEEL	FIGURE 1502 SEAL	FIGURE 1502 NUT PAINTED STEEL

ADAPTORS

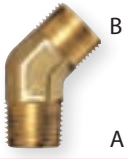
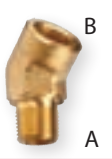

BRASS ADAPTORS

BRASS	RX64B	RX33
PLUG AND CAP		
		
SIZE	BSPT MALE PLUG BRASS	BSPT FEMALE CAP BRASS
	64	33

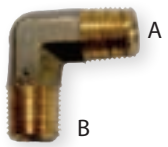
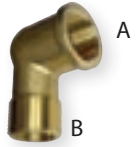
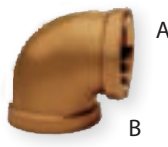
Dash	inch	PART NO	PART NO
-04	1/4	RX64B-04	RX33-04
-06	3/8	RX64B-06	RX33-06
-08	1/2	RX64B-08	RX33-08
-12	3/4	RX64B-12	RX33-12
-16	1	RX64B-16	RX33-16
-20	1.1/4	RX64B-20	RX33-20
-24	1.1/2	RX64B-24	RX33-24
-32	2	RX64B-32	RX33-32
-40	2.1/2	RX64B-40	RX33-40
-48	3	RX64B-48	RX33-48
-64	4	RX64B-64	RX33-64

ADAPTORS

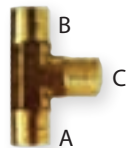
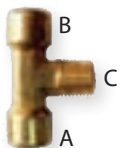
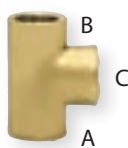
BRASS ADAPTORS

BRASS			RXD48B	RXD25B	RXD34B
45° ELBOW					
					
SIZE			BSPT MALE BSPT MALE ELBOW 45° BRASS	BSPT MALE BSPT FEMALE ELBOW 45° BRASS	BSPT FEMALE BSPT FEMALE ELBOW 45° BRASS
A B			D48	D25	D34

Dash	inch	inch	PART NO	PART NO	PART NO
-0202	1/8	1/8	RXD48B-0202	RXD25B-0202	RXD34B-0202
-0204	1/8	1/4		RXD25B-0204	
-0402	1/4	1/8	RXD48B-0402		
-0404	1/4	1/4	RXD48B-0404	RXD25B-0404	RXD34B-0404
-0604	3/8	1/4		RXD25B-0604	
-0606	3/8	3/8	RXD48B-0606	RXD25B-0606	RXD34B-0606
-0808	1/2	1/2		RXD25B-0808	
-1212	3/4	3/4		RXD25B-1212	

BRASS			RX48B	RX25B	RX34B
90° ELBOW					
					
SIZE			BSPT MALE BSPT MALE ELBOW 90° BRASS	BSPT MALE BSPT FEMALE ELBOW 90° BRASS	BSPT FEMALE BSPT FEMALE ELBOW 90° BRASS
A B			48	25	34

Dash	inch	inch	PART NO	PART NO	PART NO
-0202	1/8	1/8	RX48B-0202	RX25B-0202	RX34B-0202
-0402	1/4	1/8	RX48B-0402		
-0404	1/4	1/4	RX48B-0404	RX25B-0404	RX34B-0404
-0604	3/8	1/4	RX48B-0604		
-0606	3/8	3/8	RX48B-0606	RX25B-0606	RX34B-0606
-0806	1/2	3/8	RX48B-0806		
-0808	1/2	1/2	RX48B-0808	RX25B-0808	RX34B-0808
-1212	3/4	3/4	RX48B-1212	RX25B-1212	
-1616	1	1	RX48B-1616		

BRASS	RXM35B	RXB35B	RX35B
TEE			
SIZE	BSPT MALE TEE BRASS M35	BSPT FEMALE BSPT MALE (BRANCH) TEE BRASS B35	BSPT FEMALE TEE BRASS 35

Dash	inch	PART NO	PART NO	PART NO
-02	1/8	RXM35B-020202	RXB35B-020202	RX35B-020202
-04	1/4	RXM35B-040404	RXB35B-040404	RX35B-040404
-06	3/8	RXM35B-060606	RXB35B-060606	RX35B-060606
-08	1/2	RXM35B-080808	RXB35B-080808	RX35B-080808
-12	3/4			RX35B-121212

BRASS	RX37B
CROSS	
SIZE	BSPT FEMALE CROSS BRASS 37

Dash	inch	PART NO
-02	1/8	RX37B-02
-04	1/4	RX37B-04
-06	3/8	RX37B-06
-08	1/2	RX37B-08
-12	3/4	RX37B-12

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS


CLAMPS

ACCESSORIES





TECHNICAL

ADAPTORS




BRASS ADAPTORS

BRASS		RX24B
REDUCING BUSH		
SIZE		REDUCING BUSH BRASS
A	B	24

Dash	inch	inch	PART NO
-0402	1/4	1/8	RX24B-0402
-0602	3/8	1/8	RX24B-0602
-0604	3/8	1/4	RX24B-0604
-0802	1/2	1/8	RX24B-0802
-0804	1/2	1/4	RX24B-0804
-0806	1/2	3/8	RX24B-0806
-1202	3/4	1/8	RX24B-1202
-1204	3/4	1/4	RX24B-1204
-1206	3/4	3/8	RX24B-1206
-1208	3/4	1/2	RX24B-1208
-1604	1	1/4	RX24B-1604
-1606	1	3/8	RX24B-1606
-1608	1	1/2	RX24B-1608
-1612	1	3/4	RX24B-1612
-2006	1.1/4	3/8	RX24B-2006
-2008	1.1/4	1/2	RX24B-2008
-2012	1.1/4	3/4	RX24B-2012
-2016	1.1/4	1	RX24B-2016
-2408	1.1/2	1/2	RX24B-2408
-2412	1.1/2	3/4	RX24B-2412
-2416	1.1/2	1	RX24B-2416
-2420	1.1/2	1.1/4	RX24B-2420
-3208	2	1/2	RX24B-3208
-3212	2	3/4	RX24B-3212
-3216	2	1	RX24B-3216
-3220	2	1.1/4	RX24B-3220
-3224	2	1.1/2	RX24B-3224

STAINLESS STEEL	RX64S	RX64NS	RX33S	RX33NS
PLUG AND CAP				
SIZE	BSPT MALE PLUG STAINLESS STEEL	NPT MALE PLUG STAINLESS STEEL	BSPT FEMALE CAP STAINLESS STEEL	NPT FEMALE CAP STAINLESS STEEL
	64	N64	33	N33

Dash	inch	PART NO	PART NO	PART NO	PART NO
-04	1/4	RX64S-04	RX64NS-04	RX33S-04	RX33NS-04
-06	3/8	RX64S-06	RX64NS-06	RX33S-06	RX33NS-06
-08	1/2	RX64S-08	RX64NS-08	RX33S-08	RX33NS-08
-12	3/4	RX64S-12	RX64NS-12	RX33S-12	RX33NS-12
-16	1	RX64S-16	RX64NS-16	RX33S-16	RX33NS-16
-20	1.1/4	RX64S-20	RX64NS-20	RX33S-20	RX33NS-20
-24	1.1.2	RX64S-24	RX64NS-24	RX33S-24	RX33NS-24
-32	2	RX64S-32	RX64NS-32	RX33S-32	RX33NS-32
-40	2.1/2	RX64S-40	RX64NS-40	RX33S-40	RX33NS-40
-48	3	RX64S-48	RX64NS-48	RX33S-48	RX33NS-48
-64	4	RX64S-64	RX64NS-64	RX33S-64	RX33NS-64

STAINLESS STEEL	RX27S	RX27NS	RX88S
STRAIGHT			
SIZE	BSPT MALE NIPPLE HEX STAINLESS STEEL	NPT MALE NIPPLE HEX STAINLESS STEEL	BSPT MALE NIPPLE TOE STAINLESS STEEL
	27, 73	N27, N73	88

Dash	inch	inch	PART NO	PART NO	PART NO
-0402	1/4	1/8	RX27S-0402	RX27NS-0402	
-0404	1/4	1/4	RX27S-0404	RX27NS-0404	RX88S-0404
-0602	3/8	1/8	RX27S-0602	RX27NS-0602	
-0604	3/8	1/4	RX27S-0604	RX27NS-0604	
-0606	3/8	3/8	RX27S-0606	RX27NS-0606	RX88S-0606
-0804	1/2	1/4	RX27S-0804	RX27NS-0804	
-0806	1/2	3/8	RX27S-0806	RX27NS-0806	
-0808	1/2	1/2	RX27S-0808	RX27NS-0808	RX88S-0808
-1206	3/4	3/8	RX27S-1206	RX27NS-1206	
-1208	3/4	1/2	RX27S-1208	RX27NS-1208	
-1212	3/4	3/4	RX27S-1212	RX27NS-1212	RX88S-1212
-1612	1	3/4	RX27S-1612	RX27NS-1612	
-1616	1	1	RX27S-1616	RX27NS-1616	RX88S-1616
-2020	1.1/4	1.1/4	RX27S-2020	RX27NS-2020	RX88S-2020
-2424	1.1/2	1.1/2	RX27S-2424	RX27NS-2424	RX88S-2424
-3232	2	2	RX27S-3232	RX27NS-3232	RX88S-3232
-4040	2.1/2	2.1/2	RX27S-4040	RX27NS-4040	RX88S-4040
-4848	3	3	RX27S-4848	RX27NS-4848	RX88S-4848
-6464	4	4	RX27S-6464	RX27NS-6464	RX88S-6464

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

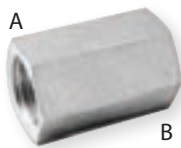
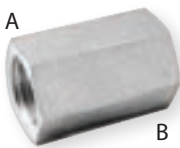


CLAMPS

ACCESSORIES

TECHNICAL

ADAPTORS

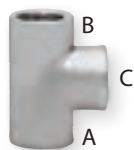
STAINLESS STEEL ADAPTORS

STAINLESS STEEL	RX26S	RX26NS	RXH26S	RXH26NS
STRAIGHT				
SIZE	BSPT FEMALE SOCKET HEX STAINLESS STEEL 26	NPT FEMALE SOCKET HEX STAINLESS STEEL N26	BSPT FEMALE SOCKET TOE STAINLESS STEEL H26	NPT FEMALE SOCKET TOE STAINLESS STEEL NH26

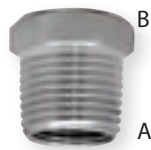
Dash	inch	PART NO	PART NO	PART NO	PART NO
-04	1/4	RX26S-0404	RX26NS-0404	RXH26S-04	RXH26NS-04
-06	3/8	RX26S-0606	RX26NS-0606	RXH26S-06	RXH26NS-06
-08	1/2	RX26S-0808	RX26NS-0808	RXH26S-08	RXH26NS-08
-12	3/4	RX26S-1212	RX26NS-1212	RXH26S-12	RXH26NS-12
-16	1	RX26S-1616	RX26NS-1616	RXH26S-16	RXH26NS-16
-20	1.1/4	RX26S-2020	RX26NS-2020	RXH26S-20	RXH26NS-20
-24	1.1.2	RX26S-2424	RX26NS-2424	RXH26S-24	RXH26NS-24
-32	2	RX26S-3232	RX26NS-3232	RXH26S-32	RXH26NS-32
-40	2.1/2	RX26S-4040	RX26NS-4040	RXH26S-40	RXH26NS-40
-48	3	RX26S-4848	RX26NS-4848	RXH26S-48	RXH26NS-48
-64	4	RX26S-6464	RX26NS-6464	RXH26S-64	RXH26NS-64

STAINLESS STEEL	RXD25S	RXD34S	RX25S	RX34S
45° ELBOW				
90° ELBOW				
SIZE	BSPT MALE BSPT FEMALE 45° ELBOW STAINLESS STEEL D25	BSPT FEMALE BSPT FEMALE 45° ELBOW STAINLESS STEEL D34	BSPT MALE BSPT FEMALE 90° ELBOW STAINLESS STEEL 25	BSPT FEMALE BSPT FEMALE 90° ELBOW STAINLESS STEEL 34

Dash	inch	PART NO	PART NO	PART NO	PART NO
-02	1/8			RX25S-0202	RX34S-0202
-04	1/4		RXD34S-0404	RX25S-0404	RX34S-0404
-06	3/8		RXD34S-0606	RX25S-0606	RX34S-0606
-08	1/2	RXD25S-0808	RXD34S-0808	RX25S-0808	RX34S-0808
-12	3/4	RXD25S-1212	RXD34S-1212	RX25S-1212	RX34S-1212
-16	1	RXD25S-1616	RXD34S-1616	RX25S-1616	RX34S-1616
-20	1.1/4	RXD25S-2020	RXD34S-2020	RX25S-2020	RX34S-2020
-24	1.1/2	RXD25S-2424	RXD34S-2424	RX25S-2424	RX34S-2424
-32	2	RXD25S-3232	RXD34S-3232	RX25S-3232	RX34S-3232
-40	2.1/2		RXD34S-4040	RX25S-4040	RX34S-4040
-48	3		RXD34S-4848	RX25S-4848	RX34S-4848
-64	4				RX34S-6464

STAINLESS STEEL		RX35S
TEE 		
		BSPT FEMALE TEE STAINLESS STEEL
SIZE		35

Dash	inch	PART NO
-02	1/8	RX35S-020202
-04	1/4	RX35S-040404
-06	3/8	RX35S-060606
-08	1/2	RX35S-080808
-12	3/4	RX35S-121212
-16	1	RX35S-161616
-20	1.1/4	RX35S-202020
-24	1.1/2	RX35S-242424
-32	2	RX35S-323232
-40	2.1/2	RX35S-404040
-48	3	RX35S-484848
-64	4	RX35S-646464

STAINLESS STEEL		RX24S
REDUCING BUSH 		
SIZE		REDUCING BUSH STAINLESS STEEL
A	B	24

Dash	inch	inch	PART NO
-0402	1/4	1/8	RX24S-0402
-0602	3/8	1/8	RX24S-0602
-0604	3/8	1/4	RX24S-0604
-0802	1/2	1/8	RX24S-0802
-0804	1/2	1/4	RX24S-0804
-0806	1/2	3/8	RX24S-0806
-1202	3/4	1/8	RX24S-1202
-1204	3/4	1/4	RX24S-1204
-1206	3/4	3/8	RX24S-1206
-1208	3/4	1/2	RX24S-1208
-1604	1	1/4	RX24S-1604
-1606	1	3/8	RX24S-1606
-1608	1	1/2	RX24S-1608
-1612	1	3/4	RX24S-1612
-2006	1.1/4	3/8	RX24S-2006
-2008	1.1/4	1/2	RX24S-2008
-2012	1.1/4	3/4	RX24S-2012
-2016	1.1/4	1	RX24S-2016
-2408	1.1/2	1/2	RX24S-2408
-2412	1.1/2	3/4	RX24S-2412
-2416	1.1/2	1	RX24S-2416
-2420	1.1/2	1.1/4	RX24S-2420
-3208	2	1/2	RX24S-3208
-3212	2	3/4	RX24S-3212
-3216	2	1	RX24S-3216
-3220	2	1.1/4	RX24S-3220
-3224	2	1.1/2	RX24S-3224
-4016	2.1/2	1	RX24S-4016
-4020	2.1/2	1.1/4	RX24S-4020
-4024	2.1/2	1.1/2	RX24S-4024
-4032	2.1/2	2	RX24S-4032
-4816	3	1	RX24S-4816
-4820	3	1.1/4	RX24S-4820
-4824	3	1.1/2	RX24S-4824
-4832	3	2	RX24S-4832
-4840	3	2.1/2	RX24S-4840
-6424	4	1.1/2	RX24S-6424
-6432	4	2	RX24S-6432
-6440	4	2.1/2	RX24S-6440
-6448	4	3	RX24S-6448


- INTRODUCTION
- HOSE
- COUPLINGS
- ADAPTORS
- CLAMPS
- ACCESSORIES
- TECHNICAL

ADAPTORS



GALVANISED ADAPTORS

GALVANISED	RX64G	RX33G
PLUG AND CAP		
		
SIZE	BSPT MALE PLUG GALVANISED	BSPT FEMALE CAP GALVANISED
	64	33

Dash	inch	PART NO	PART NO
-04	1/4	RX64G-04	RX33G-04
-06	3/8	RX64G-06	RX33G-06
-08	1/2	RX64G-08	RX33G-08
-12	3/4	RX64G-12	RX33G-12
-16	1	RX64G-16	RX33G-16
-20	1.1/4	RX64G-20	RX33G-20
-24	1.1.2	RX64G-24	RX33G-24
-32	2	RX64G-32	RX33G-32
-40	2.1/2	RX64G-40	RX33G-40
-48	3	RX64G-48	RX33G-48
-64	4	RX64G-64	RX33G-64

GALVANISED	RX27G	RX26G
STRAIGHT		
		
SIZE	BSPT MALE NIPPLE HEX GALVANISED	BSPT FEMALE SOCKET GALVANISED
	27	26

Dash	inch	PART NO	PART NO
-04	1/4	RX27G-0404	RX26G-0404
-06	3/8	RX27G-0606	RX26G-0606
-08	1/2	RX27G-0808	RX26G-0808
-12	3/4	RX27G-1212	RX26G-1212
-16	1	RX27G-1616	RX26G-1616
-20	1.1/4	RX27G-2020	RX26G-2020
-24	1.1.2	RX27G-2424	RX26G-2424
-32	2	RX27G-3232	RX26G-3232
-40	2.1/2	RX27G-4040	RX26G-4040
-48	3	RX27G-4848	RX26G-4848
-64	4	RX27G-6464	RX26G-6464

GALVANISED	RXD25G	RXD34G
45° ELBOW		
	BSPT MALE BSPT FEMALE 45° ELBOW GALVANISED	BSPT FEMALE BSPT FEMALE 45° ELBOW GALVANISED
SIZE	D25	D34

Dash	inch	PART NO	PART NO
-08	1/2	RXD25G-0808	RXD34G-0808
-12	3/4	RXD25G-1212	RXD34G-1212
-16	1	RXD25G-1616	RXD34G-1616
-20	1.1/4	RXD25G-2020	RXD34G-2020
-24	1.1/2	RXD25G-2424	RXD34G-2424
-32	2	RXD25G-3232	RXD34G-3232
-40	2.1/2		RXD34G-4040
-48	3		RXD34G-4848
-64	4		RXD34G-6464

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS





CLAMPS


ACCESSORIES


TECHNICAL

ADAPTORS

GALVANISED ADAPTORS

GALVANISED			RX25G	RX34G	RXB25G	RXB34G
90° ELBOW						
90° ELBOW BEND						
						
SIZE			BSPT MALE BSPT FEMALE ELBOW 90° GALVANISED	BSPT FEMALE BSPT FEMALE ELBOW 90° GALVANISED	BSPT MALE BSPT FEMALE ELBOW BEND 90° GALVANISED	BSPT FEMALE BSPT FEMALE ELBOW BEND 90° GALVANISED
A B			25	34	B25	B34
Dash	inch	inch	PART NO	PART NO	PART NO	PART NO
-0202	1/8	1/8		RX34G-0202		
-0404	1/4	1/4	RX25G-0404	RX34G-0404	RXB25G-0404	
-0606	3/8	3/8	RX25G-0606	RX34G-0606	RXB25G-0606	RXB34G-0606
-0806	1/2	3/8		RX34G-0806		
-0808	1/2	1/2	RX25G-0808	RX34G-0808	RXB25G-0808	RXB34G-0808
-1206	3/4	3/8		RX34G-1206		
-1208	3/4	1/2		RX34G-1208		
-1212	3/4	3/4	RX25G-1212	RX34G-1212	RXB25G-1212	RXB34G-1212
-1606	1	3/8		RX34G-1606		
-1608	1	1/2		RX34G-1608		
-1612	1	3/4		RX34G-1612		
-1616	1	1	RX25G-1616	RX34G-1616	RXB25G-1616	RXB34G-1616
-2008	1.1/4	1/2		RX34G-2008		
-2012	1.1/4	3/4		RX34G-2012		
-2016	1.1/4	1		RX34G-2016		
-2020	1.1/4	1.1/4	RX25G-2020	RX34G-2020	RXB25G-2020	RXB34G-2020
-2408	1.1/2	1/2		RX34G-2408		
-2412	1.1/2	3/4		RX34G-2412		
-2416	1.1/2	1		RX34G-2416		
-2420	1.1/2	1.1/4		RX34G-2420		
-2424	1.1/2	1.1/2	RX25G-2424	RX34G-2424	RXB25G-2424	RXB34G-2424
-3208	2	1/2		RX34G-3208		
-3212	2	3/4		RX34G-3212		
-3216	2	1		RX34G-3216		
-3220	2	1.1/4		RX34G-3220		
-3224	2	1.1/2		RX34G-3224		
-3232	2	2	RX25G-3232	RX34G-3232	RXB25G-3232	RXB34G-3232
-4040	2.1/2	2.1/2	RX25G-4040	RX34G-4040	RXB25G-4040	RXB34G-4040
-4840	3	2.1/2		RX34G-4840		
-4848	3	3	RX25G-4848	RX34G-4848	RXB25G-4848	RXB34G-4848
-6464	4	4	RX25G-6464	RX34G-6464	RXB25G-6464	RXB34G-6464
-9696	6	6		RX34G-9696		

GALVANISED				RX35G
TEE 				
SIZE				BSPT FEMALE TEE GALVANISED
A	B	C	35	

GALVANISED		RX37G
CROSS 		
SIZE		BSPT FEMALE CROSS GALVANISED
37		37

Dash	inch	inch	inch	PART NO
-020202	1/8	1/8	1/8	RX35G-020202
-040404	1/4	1/4	1/4	RX35G-040404
-060606	3/8	3/8	3/8	RX35G-060606
-080808	1/2	1/2	1/2	RX35G-080808
-121208	3/4	3/4	1/2	RX35G-121208
-121212	3/4	3/4	3/4	RX35G-121212
-161212	1	3/4	3/4	RX35G-161212
-161606	1	1	3/8	RX35G-161606
-161608	1	1	1/2	RX35G-161608
-161612	1	1	3/4	RX35G-161612
-161616	1	1	1	RX35G-161616
-161620	1	1	1.1/4	RX35G-161620
-161624	1	1	1.1/2	RX35G-161624
-201608	1.1/4	1	1/2	RX35G-201608
-201616	1.1/4	1	1	RX35G-201616
-202008	1.1/4	1.1/4	1/2	RX35G-202008
-202012	1.1/4	1.1/4	3/4	RX35G-202012
-202016	1.1/4	1.1/4	1	RX35G-202016
-202020	1.1/4	1.1/4	1.1/4	RX35G-202020
-202024	1.1/4	1.1/4	1.1/2	RX35G-202024
-202032	1.1/4	1.1/4	2	RX35G-202032
-242016	1.1/2	1.1/4	1	RX35G-242016
-242408	1.1/2	1.1/2	1/2	RX35G-242408
-242412	1.1/2	1.1/2	3/4	RX35G-242412
-242416	1.1/2	1.1/2	1	RX35G-242416
-242420	1.1/2	1.1/2	1.1/4	RX35G-242420
-242424	1.1/2			RX35G-242424
-242432	1.1/2	1.1/2	2	RX35G-242432
-323208	2	2	1/2	RX35G-323208
-323212	2	2	3/4	RX35G-323212
-323216	2	2	1	RX35G-323216
-323220	2	2	1.1/4	RX35G-323220
-323224	2	2	1.1/2	RX35G-323224
-323232	2			RX35G-323232
-323240	2	2	2.1/2	RX35G-323240
-404040	2.1/2	2.1/2	2.1/2	RX35G-404040
-484832	3	3	2	RX35G-484832
-484848	3	3	3	RX35G-484848
-646464	4	4	4	RX35G-646464
-969696	6	6	6	RX35G-969696

Dash	inch	PART NO
-06	3/8	RX37G-06
-08	1/2	RX37G-08
-12	3/4	RX37G-12
-16	1	RX37G-16
-20	1.1/4	RX37G-20
-24	1.1/2	RX37G-24
-32	2	RX37G-32
-40	2.1/2	RX37G-40
-48	3	RX37G-48
-64	4	RX37G-64

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

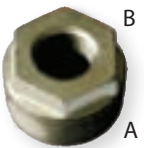
CLAMPS

ACCESSORIES

TECHNICAL

ADAPTORS

GALVANISED ADAPTORS

GALVANISED		RX24G
REDUCING BUSH		
		
SIZE		REDUCING BUSH GALVANISED
A	B	24

Dash	inch	inch	PART NO
-0402	1/4	1/8	RX24G-0402
-0602	3/8	1/8	RX24G-0602
-0604	3/8	1/4	RX24G-0604
-0802	1/2	1/8	RX24G-0802
-0804	1/2	1/4	RX24G-0804
-0806	1/2	3/8	RX24G-0806
-1202	3/4	1/8	RX24G-1202
-1204	3/4	1/4	RX24G-1204
-1206	3/4	3/8	RX24G-1206
-1208	3/4	1/2	RX24G-1208
-1604	1	1/4	RX24G-1604
-1606	1	3/8	RX24G-1606
-1608	1	1/2	RX24G-1608
-1612	1	3/4	RX24G-1612
-2006	1.1/4	3/8	RX24G-2006
-2008	1.1/4	1/2	RX24G-2008
-2012	1.1/4	3/4	RX24G-2012
-2016	1.1/4	1	RX24G-2016
-2408	1.1/2	1/2	RX24G-2408
-2412	1.1/2	3/4	RX24G-2412
-2416	1.1/2	1	RX24G-2416
-2420	1.1/2	1.1/4	RX24G-2420
-3208	2	1/2	RX24G-3208
-3212	2	3/4	RX24G-3212
-3216	2	1	RX24G-3216
-3220	2	1.1/4	RX24G-3220
-3224	2	1.1/2	RX24G-3224
-4016	2.1/2	1	RX24G-4016
-4020	2.1/2	1.1/4	RX24G-4020
-4024	2.1/2	1.1/2	RX24G-4024
-4032	2.1/2	2	RX24G-4032
-4816	3	1	RX24G-4816
-4820	3	1.1/4	RX24G-4820
-4824	3	1.1/2	RX24G-4824
-4832	3	2	RX24G-4832
-4840	3	2.1/2	RX24G-4840
-6424	4	1.1/2	RX24G-6424
-6432	4	2	RX24G-6432
-6440	4	2.1/2	RX24G-6440
-6448	4	3	RX24G-6448
-9664	6	4	RX24G-9664

QUICK FIT			RQF3	RQF4	RQF5	RQF11	RQF31
IMPERIAL IMPERIAL/ METRIC NYLON FITTINGS							
SIZE			QUICK FIT BSPTM PLASTIC	QUICK FIT STRAIGHT PLASTIC	QUICK FIT BSPTM 90° ELBOW PLASTIC	QUICK FIT 90° ELBOW PLASTIC	QUICK FIT BULKHEAD STRAIGHT PLASTIC
Dash	inch	inch	PART NO	PART NO	PART NO	PART NO	PART NO
-0202	1/8	1/8	RQF3-0202	RQF4-0202	RQF5-0202	RQF11-0202	RQF31-0202
-0302	3/16	1/8	RQF3-0302		RQF5-0302		
-0303	3/16	3/16		RQF4-0303		RQF11-0303	RQF31-0303
-0402	1/4	1/8	RQF3-0402		RQF5-0402		
-0404	1/4	1/4	RQF3-0404	RQF4-0404	RQF5-0404	RQF11-0404	RQF31-0404
-0406	1/4	3/8	RQF3-0406		RQF5-0406		
-0504	5/16	1/4	RQF3-0504		RQF5-0504		
-0505	5/16	5/16		RQF4-0505		RQF11-0505	RQF31-0505
-0506	5/16	3/8			RQF5-0506		
-0604	3/8	1/4	RQF3-0604		RQF5-0604		
-0606	3/8	3/8	RQF3-0606	RQF4-0606	RQF5-0606	RQF11-0606	RQF31-0606
-0608	3/8	1/2	RQF3-0608				
-0804	1/2	1/4			RQF5-0804		
-0806	1/2	3/8	RQF3-0806		RQF5-0806		
-0808	1/2	1/2	RQF3-0808	RQF4-0808	RQF5-0808	RQF11-0808	RQF31-0808

QUICK FIT				RQF12	RQF14
IMPERIAL IMPERIAL/ METRIC NYLON FITTINGS					
SIZE				QUICK FIT BSPTM BRANCH TEE PLASTIC	QUICK FIT EQUAL TEE PLASTIC
Dash	inch	inch	inch	PART NO	PART NO
-020202	1/8	1/8	1/8	RQF12-020202	RQF14-020202
-030302	3/16	3/16	1/8	RQF12-030302	
-030303	3/16	3/16	3/16		RQF14-030303
-030304	3/16	3/16	1/4	RQF12-030304	
-040402	1/4	1/4	1/8	RQF12-040402	
-040404	1/4	1/4	1/4	RQF12-040404	RQF14-040404
-040406	1/4	1/4	3/8	RQF12-040406	
-050502	5/16	5/16	1/8	RQF12-050502	
-050504	5/16	5/16	1/4	RQF12-050504	
-050505	5/16	5/16	5/16		RQF14-050505
-050506	5/16	5/16	3/8	RQF12-050506	
-060604	3/8	3/8	1/4	RQF12-060604	
-060606	3/8	3/8	3/8	RQF12-060606	RQF14-060606
-060608	3/8	3/8	1/2	RQF12-060608	
-080804	1/2	1/2	1/4	RQF12-080804	
-080806	1/2	1/2	3/8	RQF12-080806	
-080808	1/2	1/2	1/2	RQF12-080808	RQF14-080808

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS


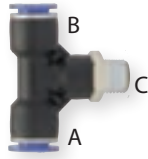
CLAMPS


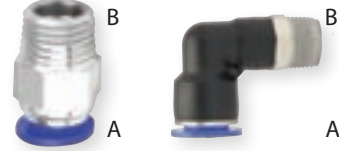
ACCESSORIES


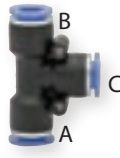
TECHNICAL

ADAPTORS





QUICK FIT TUBE ADAPTORS

QUICK FIT				RQFM12	
METRIC  IMPERIAL/ METRIC NYLON FITTINGS					
					
SIZE					
		TUBE	THRD	QUICK FIT BSPTM BRANCH TEE PLASTIC	
A		B	C		
Dash	mm	mm	inch	PART NO	
-040402	6	6	1/8	RQFM12-040402	
-040404	6	6	1/4	RQFM12-040404	
-060602	10	10	1/8	RQFM12-060602	
-060604	10	10	1/4	RQFM12-060604	
-060606	10	10	3/8	RQFM12-060606	

QUICK FIT				RQFM3		RQFM5	
METRIC  IMPERIAL/ METRIC NYLON FITTINGS							
							
SIZE							
		TUBE	THRD	QUICK FIT BSPTM PLASTIC		QUICK FIT BSPTM 90° ELBOW PLASTIC	
A		B	B				
Dash	mm	inch		PART NO	PART NO		
-0402	6	1/8		RQFM3-0402	RQFM5-0402		
-0404	6	1/4		RQFM3-0404	RQFM5-0404		
-0602	10	1/8		RQFM3-0602	RQFM5-0602		
-0604	10	1/4		RQFM3-0604	RQFM5-0604		
-0606	10	3/8		RQFM3-0606	RQFM5-0606		
-0802	12	1/8		RQFM3-0802	RQFM5-0802		
-0804	12	1/4		RQFM3-0804	RQFM5-0804		
-0806	12	3/8		RQFM3-0806	RQFM5-0806		
-1002	16	1/8		RQFM3-1002	RQFM5-1002		
-1004	16	1/4		RQFM3-1004	RQFM5-1004		
-1006	16	3/8		RQFM3-1006	RQFM5-1006		
-1008	16	1/2		RQFM3-1008	RQFM5-1008		
-1204	19	1/4		RQFM3-1204	RQFM5-1204		
-1206	19	3/8		RQFM3-1206	RQFM5-1206		
-1208	19	1/2		RQFM3-1208	RQFM5-1208		

QUICK FIT		RQFM14		
METRIC  <small>IMPERIAL/ METRIC NYLON FITTINGS</small>				
				
SIZE				QUICK FIT EQUAL TEE PLASTIC
TUBE A	TUBE B	TUBE C		

Dash	mm	mm	mm	PART NO
-040404	6	6	3	RQFM14-040404
-060606	10	10	6	RQFM14-060606
-080808	12	12	3	RQFM14-080808
-101010	16	16	6	RQFM14-101010
-121212	20	20	10	RQFM14-121212

QUICK FIT		RQFM4	RQFM11	RQFM31	
METRIC  <small>IMPERIAL/ METRIC NYLON FITTINGS</small>					
  					
SIZE		QUICK FIT STRAIGHT PLASTIC	QUICK FIT 90° ELBOW PLASTIC	QUICK FIT BULKHEAD STRAIGHT PLASTIC	
A	B				
Dash	mm	mm	PART NO	PART NO	PART NO
-0404	6	6	RQFM4-0404	RQFM11-0404	RQFM31-0404
-0606	10	10	RQFM4-0606	RQFM11-0606	RQFM31-0606
-0808	12	1/2	RQFM4-0808	RQFM11-0808	RQFM31-0808
-1010	16	16	RQFM4-1010	RQFM11-1010	RQFM31-1010
-1212	20	20	RQFM4-1212	RQFM11-1212	RQFM31-1212

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS






CLAMPS




ACCESSORIES




TECHNICAL


ADAPTORS

FLANGES

FLANGES		FDHG	FDWU	FDBU	FDSU
FLANGE D  >300 PSI HOSE TAIL COUPLINGS					
					
SIZE		FLANGE D X HOSETAIL GALVANISED	FLANGE D WELD-ON STEEL	FLANGE D BLANK STEEL	FLANGE D SLIP-ON STEEL
Dash	inch	PART NO	PART NO	PART NO	PART NO
-08	1/2		FDWU-08	FDBU-08	FDSU-08
-12	3/4		FDWU-12	FDBU-12	FDSU-12
-16	1		FDWU-16	FDBU-16	FDSU-16
-20	1.1/4		FDWU-20	FDBU-20	FDSU-20
-24	1.1/2		FDWU-24	FDBU-24	FDSU-24
-32	2		FDWU-32	FDBU-32	FDSU-32
-40	2.1/2		FDWU-40	FDBU-40	FDSU-40
-48	3	FDHG-48	FDWU-48	FDBU-48	FDSU-48
-64	4	FDHG-64	FDWU-64	FDBU-64	FDSU-64
-80	5		FDWU-80	FDBU-80	FDSU-80
-96	6	FDHG-96	FDWU-96	FDBU-96	FDSU-96
-128	8	FDHG-128	FDWU-128	FDBU-128	FDSU-128
-160	10		FDWU-160	FDBU-160	FDSU-160

FLANGES		FEWU	FEBU	FESU
FLANGE E   				
SIZE		FLANGE E WELD-ON STEEL	FLANGE E BLANK STEEL	FLANGE E SLIP-ON STEEL
Dash	inch	PART NO	PART NO	PART NO
-08	1/2	FEWU-08	FEBU-08	FESU-08
-12	3/4	FEWU-12	FEBU-12	FESU-12
-16	1	FEWU-16	FEBU-16	FESU-16
-20	1.1/4	FEWU-20	FEBU-20	FESU-20
-24	1.1/2	FEWU-24	FEBU-24	FESU-24
-32	2	FEWU-32	FEBU-32	FESU-32
-40	2.1/2	FEWU-40	FEBU-40	FESU-40
-48	3	FEWU-48	FEBU-48	FESU-48
-64	4	FEWU-64	FEBU-64	FESU-64
-80	5	FEWU-80	FEBU-80	FESU-80
-96	6	FEWU-96	FEBU-96	FESU-96
-128	8	FEWU-128	FEBU-128	FESU-128
-160	10	FEWU-160	FEBU-160	FESU-160

FLANGES		FHWU	FHBU	FHSU
FLANGE H				
				
SIZE		FLANGE F WELD-ON STEEL	FLANGE F BLANK STEEL	FLANGE F SLIP-ON STEEL
Dash	inch	PART NO	PART NO	PART NO
-08	1/2	FHWU-08	FHBU-08	FHSU-08
-12	3/4	FHWU-12	FHBU-12	FHSU-12
-16	1	FHWU-16	FHBU-16	FHSU-16
-20	1.1/4	FHWU-20	FHBU-20	FHSU-20
-24	1.1/2	FHWU-24	FHBU-24	FHSU-24
-32	2	FHWU-32	FHBU-32	FHSU-32
-40	2.1/2	FHWU-40	FHBU-40	FHSU-40
-48	3	FHWU-48	FHBU-48	FHSU-48
-64	4	FHWU-64	FHBU-64	FHSU-64
-80	5	FHWU-80	FHBU-80	FHSU-80
-96	6	FHWU-96	FHBU-96	FHSU-96
-128	8	FHWU-128	FHBU-128	FHSU-128
-160	10	FHWU-160	FHBU-160	FHSU-160

FLANGES		FAN15WU	FAN15BU	FAN15SU
FLANGE ANSI 150				
				
SIZE		FLANGE ANSI 150 WELD-ON STEEL	FLANGE ANSI 150 BLANK STEEL	FLANGE ANSI 150 SLIP-ON STEEL
Dash	inch	PART NO	PART NO	PART NO
-16	1	FAN15WU-16	FAN15BU-16	FAN15SU-16
-24	1.1/2	FAN15WU-24	FAN15BU-24	FAN15SU-24
-32	2	FAN15WU-32	FAN15BU-32	FAN15SU-32
-48	3	FAN15WU-48	FAN15BU-48	FAN15SU-48
-64	4	FAN15WU-64	FAN15BU-64	FAN15SU-64
-96	6	FAN15WU-96	FAN15BU-96	FAN15SU-96
-128	8	FAN15WU-128	FAN15BU-128	FAN15SU-128

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS




CLAMPS




ACCESSORIES

TECHNICAL

ADAPTORS

HAMMER UNIONS

HAMMER UNION		RF100	RF100BW	RF100N
HAMMER UNION FIGURE 100				
SIZE		HAMMER UNION FIGURE 100 PAINTED STEEL	HAMMER UNION FIGURE 100 BUTT-WELD PAINTED STEEL	HAMMER UNION FIGURE 100 NUT PAINTED STEEL
Dash	inch	PART NO	PART NO	PART NO
-32	2	RF100-32	RF100BW-32	RF100N-32
-40	2.1/2	RF100-40		RF100N-40
-48	3	RF100-48		RF100N-48
-64	4	RF100-64	RF100BW-64	RF100N-64
-96	6	RF100-96		RF100N-96
-128	8	RF100-128		

HAMMER UNION		RF200	RF200BW	RF200N
HAMMER UNION FIGURE 200				
SIZE		HAMMER UNION FIGURE 200 PAINTED STEEL	HAMMER UNION FIGURE 200 BUTT-WELD PAINTED STEEL	HAMMER UNION FIGURE 200 NUT PAINTED STEEL
Dash	inch	PART NO	PART NO	PART NO
-16	1	RF200-16		RF200N-16
-24	1.1/2	RF200-24		RF200N-24
-32	2	RF200-32		RF200N-32
-40	2.1/2	RF200-40		RF200N-40
-48	3	RF200-48		RF200N-48
-64	4	RF200-64	RF200BW-64	RF200N-64
-96	6	RF200-96		RF200N-96

HAMMER UNIONS		RF206	RF206W	RF206N
HAMMER UNIONS FIGURE 206				
SIZE		HAMMER UNION FIGURE 206 PAINTED STEEL	HAMMER UNION FIGURE 206 SEAL	HAMMER UNION FIGURE 206 NUT PAINTED STEEL

Dash	inch	PART NO	PART NO	PART NO
-16	1	RF206-16	RF206W-16	RF206N-16
-24	1.1/2	RF206-24	RF206W-24	RF206N-24
-32	2	RF206-32	RF206W-32	RF206N-32
-40	2.1/2	RF206-40	RF206W-40	RF206N-40
-48	3	RF206-48	RF206W-48	RF206N-48
-64	4	RF206-64	RF206W-64	RF206N-64
-96	6	RF206-96	RF206W-96	RF206N-96

HAMMER UNIONS		RF602	RF602W	RF602N
HAMMER UNIONS FIGURE 602				
SIZE		HAMMER UNION FIGURE 602 PAINTED STEEL	HAMMER UNION FIGURE 602 SEAL	HAMMER UNION FIGURE 602 NUT PAINTED STEEL

Dash	inch	PART NO	PART NO	PART NO
-16	1	RF602-16	RF602W-16	RF602N-16
-32	2	RF602-32	RF602W-32	RF602N-32

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS




CLAMPS

ACCESSORIES

TECHNICAL

ADAPTORS

HAMMER UNIONS

HAMMER UNIONS		RF1002	RF1002W	RF1002N
HAMMER UNIONS FIGURE 1002				
SIZE		HAMMER UNION FIGURE 1002 PAINTED STEEL	HAMMER UNION FIGURE 1002 SEAL	HAMMER UNION FIGURE 1002 NUT PAINTED STEEL
Dash	inch	PART NO	PART NO	PART NO
-16	1	RF1002-16	RF1002W-16	RF1002N-16
-32	2	RF1002-32	RF1002W-32	RF1002N-32
-64	4	RF1002-64	RF1002W-64	RF1002N-64

HAMMER UNIONS		RF1502	RF1502W	RF1502N
HAMMER UNIONS FIGURE 1502				
SIZE		HAMMER UNION FIGURE 1502 PAINTED STEEL	HAMMER UNION FIGURE 1502 SEAL	HAMMER UNION FIGURE 1502 NUT PAINTED STEEL
Dash	inch	PART NO	PART NO	PART NO
-32	2	RF1502-32	RF1502W-32	RF1502N-32

CLAMPS



CLAMPS

PICTORIAL INDEX

CRIMP FERRULES

CFU
P178-P179

CFLU
P178-P179

CFHS
P180



EXTERNAL
CRIMP

EXTERNAL
CRIMP FERRULE
ZINC PLATED STEEL

EXTERNAL
CRIMP FERRULE, LONG
ZINC PLATED STEEL

HYGIENIC
CRIMP FERRULE
STAINLESS STEEL

HEAVY DUTY BOLT CLAMPS

RSC
P181

RSC4S
P181



HEAVY DUTY
ONE BOLT
CLAMP

1-BOLT HD
SUPER CLAMP
ZINC PLATED STEEL

1-BOLT HD
SUPER CLAMP
TYPE 4
STAINLESS STEEL

HEAVY DUTY BOLT CLAMPS

BC2F
P182

BC2SF
P182

BC2CF
P182



BOLT CLAMPS
W/ OR W/
OUT SAFETY
CLAWS

2-BOLT CLAMP
NO CLAW
CAST IRON

2-BOLT
SADDLE CLAMP
NO CLAW
ZINC PLATED STEEL

2-BOLT
CLAW CLAMP
CAST IRON

HEAVY DUTY BOLT CLAMPS

BC4CF
P183



HEAVY DUTY
BOLT CLAMPS
W/ SAFETY
CLAWS

4-BOLT
CLAW CLAMP
CAST IRON

WORM DRIVE CLAMPS

WDGU
P184

WDGS
P184

WDSS
P185



WORM DRIVE
CLAMPS

WORM DRIVE
GEAR CLAMP
ZINC PLATED STEEL

WORM DRIVE
GEAR CLAMP
STAINLESS STEEL

WORM DRIVE
SLOTTED CLAMP
STAINLESS STEEL

SPIRAL CLAMPS

SPCLU P185 **SPCRU** P185



SPIRAL CLAMP
LEFT HAND
ZINC PLATED STEEL

SPIRAL CLAMP
RIGHT HAND
ZINC PLATED STEEL

INTRODUCTION

BAND CLAMPS

BDP4S P186 **BDP6S** P186 **BDP8S** P186 **BDP10S** P186 **BDP12S** P186 **BDP-T** P186 **BDP-TA** P186



BAND
PRE-FORMED CLAMP
STAINLESS STEEL

BAND
PRE-FORMED CLAMP
STAINLESS STEEL

BAND
PRE-FORMED CLAMP
STAINLESS STEEL

BAND
PRE-FORMED CLAMP
STAINLESS STEEL

BAND
PRE-FORMED CLAMP
STAINLESS STEEL

BAND
PRE-FORMED TOOL

BAND
PRE-FORMED TOOL
ADAPTOR

HOSE

PIPE REPAIR CLAMPS

PRCS
P187-P188



PIPE REPAIR CLAMP
STAINLESS STEEL/EPDM

COUPLINGS

MERCHANDISERS KITS AND TOOLS

NHC135W1 P189 **NHC135W4** P189 **NHC190W1** P190 **NHC190W4** P190 **NHC100W1** P191 **NHC100W4** P191 **FLEXIDRIVER** P191



WDGU
ZINC PLATED CLAMPS
MERCHANDISER

WDGS
STAINLESS STEEL CLAMPS
MERCHANDISER

RSC
ZINC PLATED CLAMPS
MERCHANDISER

RSC4S
STAINLESS STEEL CLAMPS
MERCHANDISER

ZINC PLATED CLAMPS
KIT

STAINLESS STEEL CLAMPS
KIT

FLEXIDRIVER TOOL

ADAPTORS




CLAMPS


ACCESSORIES

TECHNICAL

CLAMPS

CRIMP FERRULES

CRIMP FERRULES				CFU	CFLU
 ZINC PLATED STEEL (CONTINUED ON NEXT PAGE) EXTERNAL CRIMP					
SIZE		SUITS HOSE OD RANGE		EXTERNAL CRIMP FERRULE ZINC PLATED STEEL	EXTERNAL CRIMP FERRULE, LONG ZINC PLATED STEEL
Dash	inch	mm	inch	PART NO	PART NO
20-1	1.1/4	42.9 - 44.5	1.69 - 1.75	CFU20-1	CFLU20-1
20-2	1.1/4	44.8 - 47.6	1.76 - 1.87	CFU20-2	CFLU20-2
20-3	1.1/4	48.0 - 50.8	1.89 - 2.00	CFU20-3	CFLU20-3
20-4	1.1/4	51.2 - 54.0	2.02 - 2.13	CFU20-4	CFLU20-4
24-1	1.1/2	48.4 - 50.8	1.91 - 2.00	CFU24-1	CFLU24-1
24-2	1.1/2	51.2 - 54.0	2.02 - 2.13	CFU24-2	CFLU24-2
24-3	1.1/2	54.4 - 57.2	2.14 - 2.25	CFU24-3	CFLU24-3
24-4	1.1/2	57.5 - 60.3	2.26 - 2.37	CFU24-4	CFLU24-4
24-5	1.1/2	60.7 - 63.5	2.39 - 2.50	CFU24-5	CFLU24-5
32-1	2	61.9 - 66.7	2.44 - 2.63	CFU32-1	CFLU32-1
32-2	2	67.1 - 69.9	2.64 - 2.75	CFU32-2	CFLU32-2
32-3	2	70.2 - 73.0	2.76 - 2.87	CFU32-3	CFLU32-3
32-4	2	73.4 - 77.0	2.89 - 3.03	CFU32-4	CFLU32-4
40-1	2.1/2	77.4 - 79.4	3.05 - 3.13	CFU40-1	CFLU40-1
40-2	2.1/2	79.8 - 82.6	3.14 - 3.25	CFU40-2	CFLU40-2
40-3	2.1/2	82.9 - 85.7	3.26 - 3.37	CFU40-3	CFLU40-3
40-4	2.1/2	86.1 - 88.9	3.39 - 3.50	CFU40-4	CFLU40-4
40-5	2.1/2	89.3 - 92.1	3.52 - 3.63	CFU40-5	CFLU40-5
48-1	3	88.1 - 92.1	3.47 - 3.63	CFU48-1	CFLU48-1
48-2	3	92.5 - 95.3	3.64 - 3.75	CFU48-2	CFLU48-2
48-3	3	95.6 - 98.4	3.76 - 3.87	CFU48-3	CFLU48-3
48-4	3	98.8 - 101.6	3.89 - 4.00	CFU48-4	CFLU48-4
48-5	3	102.0 - 104.8	4.02 - 4.13	CFU48-5	CFLU48-5
64-1	4	117.5 - 119.1	4.63 - 4.69	CFU64-1	CFLU64-1
64-2	4	119.5 - 122.2	4.70 - 4.81	CFU64-2	CFLU64-2
64-3	4	122.6 - 125.4	4.83 - 4.94	CFU64-3	CFLU64-3
64-4	4	125.8 - 128.6	4.95 - 5.06	CFU64-4	CFLU64-4
64-5	4	129.0 - 131.8	5.08 - 5.19	CFU64-5	CFLU64-5
64-6	4	132.2 - 134.9	5.20 - 5.31	CFU64-6	CFLU64-6
64-7	4	135.3 - 138.1	5.33 - 5.44	CFU64-7	CFLU64-7
64-8	4	138.5 - 141.3	5.45 - 5.56	CFU64-8	CFLU64-8
80-1	5	149.2 - 150.8	5.87 - 5.94	CFU80-1	CFLU80-1
80-2	5	151.2 - 154.0	5.95 - 6.06	CFU80-2	CFLU80-2
80-3	5	154.4 - 157.2	6.08 - 6.19	CFU80-3	CFLU80-3
80-4	5	157.6 - 160.3	6.20 - 6.31	CFU80-4	CFLU80-4
80-5	5	160.7 - 163.5	6.33 - 6.44	CFU80-5	CFLU80-5
80-6	5	163.9 - 166.7	6.45 - 6.56	CFU80-6	CFLU80-6
80-7	5	167.1 - 169.9	6.58 - 6.69	CFU80-7	CFLU80-7

CRIMP FERRULES				CFU	CFLU
 ZINC PLATED STEEL (CONTINUED FROM PREVIOUS PAGE)					
SIZE		SUITS HOSE OD RANGE		EXTERNAL CRIMP FERRULE ZINC PLATED STEEL	EXTERNAL CRIMP FERRULE, LONG ZINC PLATED STEEL
Dash	inch	mm	inch	PART NO	PART NO
96-1	6	177.8 - 179.4	7.00 - 7.06	CFU96-1	CFLU96-1
96-2	6	179.8 - 182.6	7.08 - 7.19	CFU96-2	CFLU96-2
96-3	6	183.0 - 185.7	7.20 - 7.31	CFU96-3	CFLU96-3
96-4	6	186.1 - 188.9	7.33 - 7.44	CFU96-4	CFLU96-4
96-5	6	189.3 - 192.1	7.45 - 7.56	CFU96-5	CFLU96-5
96-6	6	192.5 - 195.3	7.58 - 7.69	CFU96-6	CFLU96-6
96-7	6	195.7 - 198.4	7.70 - 7.81	CFU96-7	CFLU96-7
96-8	6	198.8 - 201.6	7.83 - 7.94	CFU96-8	CFLU96-8
96-9	6	202.0 - 203.2	7.95 - 8.00	CFU96-9	CFLU96-9
128-1	8	236.5 - 238.1	9.31 - 9.37	CFU128-1	CFLU128-1
128-2	8	238.5 - 241.3	9.39 - 9.50	CFU128-2	CFLU128-2
128-3	8	241.7 - 244.5	9.52 - 9.63	CFU128-3	CFLU128-3
128-4	8	244.9 - 247.7	9.64 - 9.75	CFU128-4	CFLU128-4
128-5	8	248.0 - 250.8	9.76 - 9.87	CFU128-5	CFLU128-5
128-6	8	251.2 - 254.0	9.89 - 10.00	CFU128-6	CFLU128-6
128-7	8	254.4 - 255.6	10.02 - 10.06	CFU128-7	CFLU128-7
160-1	10	292.1 - 296.9	11.50 - 11.69	CFU160-1	CFLU160-1
160-2	10	297.3 - 303.2	11.70 - 11.94	CFU160-2	CFLU160-2
160-3	10	303.6 - 309.6	11.95 - 12.19	CFU160-3	CFLU160-3
160-4	10	310.0 - 315.9	12.20 - 12.44	CFU160-4	CFLU160-4
160-5	10	316.3 - 322.3	12.45 - 12.69	CFU160-5	CFLU160-5
160-6	10	322.7 - 328.6	12.70 - 12.94	CFU160-6	CFLU160-6

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS



CLAMPS

ACCESSORIES

TECHNICAL

CLAMPS

CRIMP FERRULES

CRIMP FERRULES				CFHS
HYGIENIC  <small>EXTERNAL CRIMP</small>				
SIZE		SUITS HOSE OD RANGE		HYGIENIC CRIMP FERRULE STAINLESS STEEL
Dash	inch	mm	inch	PART NO
16-1	1	33.0 - 35.0	1.30 - 1.38	CFHS16-1
16-2	1	35.7 - 36.5	1.41 - 1.44	CFHS16-2
16-3	1	36.9 - 37.7	1.45 - 1.48	CFHS16-3
16-4	1	38.1 - 38.9	1.5 - 1.53	CFHS16-4
16-5	1	39.3 - 40.1	1.55 - 1.58	CFHS16-5
16-6	1	40.5 - 41.3	1.59 - 1.63	CFHS16-6
24-1	1.1/2	48.4 - 49.6	1.91 - 1.95	CFHS24-1
24-2	1.1/2	50.0 - 51.2	1.97 - 2.02	CFHS24-2
24-3	1.1/2	51.6 - 52.8	2.03 - 2.08	CFHS24-3
24-4	1.1/2	53.2 - 54.4	2.09 - 2.14	CFHS24-4
32-1	2	62.7 - 63.9	2.47 - 2.52	CFHS32-1
32-2	2	64.3 - 65.5	2.53 - 2.58	CFHS32-2
32-3	2	65.9 - 67.1	2.59 - 2.64	CFHS32-3
32-4	2	67.4 - 68.7	2.65 - 2.70	CFHS32-4
40-1	2.1/2	76.1 - 78.1	3.00 - 3.07	CFHS40-1
40-2	2.1/2	78.1 - 80.1	3.07 - 3.15	CFHS40-2
40-3	2.1/2	81.1 - 83.1	3.19 - 3.27	CFHS40-3
48-1	3	88.0 - 91.0	3.46 - 3.58	CFHS48-1
48-2	3	91.7 - 92.9	3.61 - 3.66	CFHS48-2
48-3	3	92.1 - 93.3	3.63 - 3.67	CFHS48-3
48-4	3	93.6 - 94.9	3.69 - 3.74	CFHS48-4
48-5	3	95.2 - 96.5	3.75 - 3.80	CFHS48-5
48-6	3	96.8 - 98.0	3.81 - 3.86	CFHS48-6
48-7	3	98.4 - 99.6	3.87 - 3.92	CFHS48-7
64-1	4	117.5 - 118.7	4.63 - 4.67	CFHS64-1
64-2	4	119.0 - 120.3	4.69 - 4.74	CFHS64-2
64-3	4	120.6 - 121.9	4.75 - 4.80	CFHS64-3
64-4	4	122.2 - 123.5	4.81 - 4.86	CFHS64-4
64-5	4	123.8 - 125.0	4.87 - 4.92	CFHS64-5

1-BOLT HEAVY DUTY		RSC	RSC4S
SUPER CLAMP  <small>HEAVY DUTY ONE BOLT CLAMP</small>			
			
SIZE RANGE		1-BOLT HD SUPER CLAMP ZINC PLATED STEEL	1-BOLT HD SUPER CLAMP TYPE 4 STAINLESS STEEL

mm	inch	PART NO	PART NO
17 - 19	0.67 - 0.75	RSC-1719	RSC4S-017019
19 - 21	0.75 - 0.83	RSC-1921	RSC4S-019021
21 - 23	0.83 - 0.91	RSC-2123	RSC4S-021023
23 - 25	0.91 - 0.98	RSC-2325	RSC4S-023025
25 - 27	0.98 - 1.06	RSC-2527	RSC4S-025027
27 - 29	1.06 - 1.14	RSC-2729	RSC4S-027029
29 - 31	1.14 - 1.22	RSC-2931	RSC4S-029031
31 - 34	1.22 - 1.34	RSC-3134	RSC4S-031034
34 - 37	1.34 - 1.46	RSC-3437	RSC4S-034037
37 - 40	1.46 - 1.57	RSC-3740	RSC4S-037040
40 - 43	1.57 - 1.69	RSC-4043	RSC4S-040043
43 - 47	1.69 - 1.85	RSC-4347	RSC4S-043047
47 - 51	1.85 - 2.01	RSC-4751	RSC4S-047051
51 - 55	2.01 - 2.17	RSC-5155	RSC4S-051055
55 - 59	2.17 - 2.32	RSC-5559	RSC4S-055059
59 - 63	2.32 - 2.48	RSC-5963	RSC4S-059063
63 - 68	2.48 - 2.68	RSC-6368	RSC4S-063068
68 - 73	2.68 - 2.87	RSC-6873	RSC4S-068073
73 - 79	2.87 - 3.11	RSC-7379	RSC4S-073079
79 - 85	3.11 - 3.35	RSC-7985	RSC4S-079085
85 - 91	3.35 - 3.58	RSC-8591	RSC4S-085091
91 - 97	3.58 - 3.82	RSC-9197	RSC4S-091097
97 - 104	3.82 - 4.09	RSC-97104	RSC4S-097104
104 - 112	4.09 - 4.41	RSC-104112	RSC4S-104112
112 - 121	4.41 - 4.76	RSC-112121	RSC4S-112121
121 - 130	4.76 - 5.12	RSC-121130	RSC4S-121130
130 - 140	5.12 - 5.51	RSC-130140	RSC4S-130140
140 - 150	5.51 - 5.91	RSC-140150	RSC4S-140150
150 - 162	5.91 - 6.38	RSC-150162	RSC4S-150162
162 - 174	6.38 - 6.85	RSC-162174	RSC4S-162174
174 - 187	6.85 - 7.36	RSC-174187	RSC4S-174187
187 - 200	7.36 - 7.87	RSC-187200	RSC4S-187200
200 - 213	7.87 - 8.39	RSC-200213	RSC4S-200213
213 - 226	8.39 - 8.90	RSC-213226	RSC4S-213226
226 - 239	8.90 - 9.41	RSC-226239	RSC4S-226239
239 - 252	9.41 - 9.92	RSC-239252	RSC4S-239252
250 - 265	9.84 - 10.43		RSC4S-250265
265 - 278	10.43 - 10.94		RSC4S-265278
304 - 317	11.97 - 12.48		RSC4S-304317
317 - 338	12.48 - 13.31		RSC4S-317338

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS



CLAMPS

ACCESSORIES



TECHNICAL

CLAMPS



HEAVY DUTY BOLT CLAMPS

2-BOLT HEAVY DUTY		BC2F
NO CLAW		
 <small>BOLT CLAMPS W/ OR W/ OUT SAFETY CLAWS</small>		
SIZE RANGE		2-BOLT CLAMP NO CLAW CAST IRON

mm	inch	PART NO
28,6-30,2	1.13-1.19	BC2F-029030
30,2-34,9	1.19-1.37	BC2F-030035
36,5-38,9	1.44-1.53	BC2F-037039
41,3-46,0	1.63-1.81	BC2F-041046
44,5-52,0	1.75-2.05	BC2F-045052
53,6-58,3	2.11-2.30	BC2F-054058
58,7-66,7	2.31-2.63	BC2F-059067
63,5-69,9	2.50-2.75	BC2F-064070
69,9-77,8	2.75-3.06	BC2F-070078
77,8-85,7	3.06-3.37	BC2F-078086
82,6-88,9	3.25-3.50	BC2F-083089

2-BOLT HEAVY DUTY		BC2CF
CLAW		
 <small>2 BOLT CLAMPS W/ SAFETY CLAWS</small>		
SIZE RANGE		2-BOLT CLAW CLAMP CAST IRON

mm	inch	PART NO
22 - 29	0.87 - 1.14	BC2CF-022029
28 - 37	1.10 - 1.46	BC2CF-028037
35 - 42	1.38 - 1.65	BC2CF-035042

2-BOLT HEAVY DUTY		BC2SF
SADDLE CLAMP NO CLAW		
 <small>BOLT CLAMPS W/ OR W/ OUT SAFETY CLAWS</small>		
SIZE RANGE		2-BOLT SADDLE CLAMP NO CLAW CAST IRON

mm	inch	PART NO
16 - 22	0.63 - 0.87	BC2SF-016022
22 - 29	0.87 - 1.14	BC2SF-022029
29 - 34	1.14 - 1.34	BC2SF-029034
33 - 40	1.30 - 1.57	BC2SF-033040
40 - 49	1.57 - 1.93	BC2SF-040049
49 - 60	1.93 - 2.36	BC2SF-049060
60 - 76	2.36 - 2.99	BC2SF-060076
76 - 94	2.99 - 3.70	BC2SF-076094
90 - 100	3.54 - 3.94	BC2SF-090100
94 - 115	3.70 - 4.53	BC2SF-094115
103 - 114	4.06 - 4.49	BC2SF-103114
108 - 125	4.25 - 4.92	BC2SF-108125
125 - 140	4.92 - 5.51	BC2SF-125140
140 - 155	5.51 - 6.10	BC2SF-140155
155 - 174	6.10 - 6.85	BC2SF-155174
175 - 194	6.89 - 7.64	BC2SF-175194
195 - 210	7.68 - 8.27	BC2SF-195210
210 - 225	8.27 - 8.86	BC2SF-210225
225 - 250	8.86 - 9.84	BC2SF-225250
250 - 285	9.84 - 11.22	BC2SF-250285
285 - 330	11.22 - 12.99	BC2SF-285330

4-BOLT HEAVY DUTY		BC4CF
CLAW		
 <p>HEAVY DUTY BOLT CLAMPS W/ SAFETY CLAWS</p>		
SIZE RANGE		4-BOLT CLAW CLAMP CAST IRON

mm	inch	PART NO
23 - 26	0.91 - 1.02	BC4CF-023026
36 - 39	1.42 - 1.54	BC4CF-036039
38 - 45	1.50 - 1.77	BC4CF-038045
39 - 43	1.54 - 1.69	BC4CF-039043
43 - 47	1.69 - 1.85	BC4CF-043047
43 - 49	1.69 - 1.93	BC4CF-043049
46 - 51	1.81 - 2.01	BC4CF-046051
46 - 53	1.81 - 2.09	BC4CF-046053
48 - 52	1.89 - 2.05	BC4CF-048052
50 - 54	1.97 - 2.13	BC4CF-050054
51 - 54	2.01 - 2.13	BC4CF-051054
51 - 56	2.01 - 2.20	BC4CF-051056
53 - 57	2.09 - 2.24	BC4CF-053057
54 - 60	2.13 - 2.36	BC4CF-054060
56 - 60	2.20 - 2.36	BC4CF-056060
58 - 63	2.28 - 2.48	BC4CF-058063
60 - 64	2.36 - 2.52	BC4CF-060064
61 - 65	2.40 - 2.56	BC4CF-061065
64 - 71	2.52 - 2.80	BC4CF-064071
65 - 70	2.56 - 2.76	BC4CF-065070
70 - 78	2.76 - 3.07	BC4CF-070078
79 - 87	3.11 - 3.43	BC4CF-079087
89 - 100	3.50 - 3.94	BC4CF-089100
97 - 103	3.82 - 4.06	BC4CF-097103
104 - 113	4.09 - 4.45	BC4CF-104113
107 - 114	4.21 - 4.49	BC4CF-107114

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

CLAMPS

STANDARD CLAMPS

WORM DRIVE		WDGU	
GEAR  WORM DRIVE CLAMPS			
SIZE RANGE		WORM DRIVE GEAR CLAMP ZINC PLATED STEEL	

mm	inch	PART NO
16 - 27	0.63 - 1.06	WDGU-016027
20 - 32	0.79 - 1.26	WDGU-020032
25 - 40	0.98 - 1.57	WDGU-025040
30 - 45	1.18 - 1.77	WDGU-030045
35 - 50	1.38 - 1.97	WDGU-035050
40 - 60	1.57 - 2.36	WDGU-040060
50 - 70	1.97 - 2.76	WDGU-050070
60 - 80	2.36 - 3.15	WDGU-060080
70 - 90	2.76 - 3.54	WDGU-070090
80 - 100	3.15 - 3.94	WDGU-080100
90 - 110	3.54 - 4.33	WDGU-090110
100 - 120	3.94 - 4.72	WDGU-100120
110 - 130	4.33 - 5.12	WDGU-110130
120 - 140	4.72 - 5.51	WDGU-120140
130 - 150	5.12 - 5.91	WDGU-130150
140 - 160	5.51 - 6.30	WDGU-140160
150 - 170	5.91 - 6.69	WDGU-150170
160 - 180	6.30 - 7.09	WDGU-160180
170 - 190	6.69 - 7.48	WDGU-170190
180 - 200	7.09 - 7.87	WDGU-180200
190 - 210	7.48 - 8.27	WDGU-190210
200 - 220	7.87 - 8.66	WDGU-200220
210 - 230	8.27 - 9.06	WDGU-210230
230 - 250	9.06 - 9.84	WDGU-230250
260 - 280	10.24 - 11.02	WDGU-260280
280 - 300	11.02 - 11.81	WDGU-280300

WORM DRIVE		WDGS	
GEAR  STAINLESS STEEL WORM DRIVE CLAMPS			
SIZE RANGE		WORM DRIVE GEAR CLAMP STAINLESS STEEL	

mm	inch	PART NO
8 - 16	0.31 - 0.63	WDGS-008016
12 - 22	0.47 - 0.87	WDGS-012022
16 - 27	0.63 - 1.06	WDGS-016027
20 - 32	0.79 - 1.26	WDGS-020032
25 - 40	0.98 - 1.57	WDGS-025040
30 - 45	1.18 - 1.77	WDGS-030045
35 - 50	1.38 - 1.97	WDGS-035050
40 - 60	1.57 - 2.36	WDGS-040060
50 - 70	1.97 - 2.76	WDGS-050070
60 - 80	2.36 - 3.15	WDGS-060080
70 - 90	2.76 - 3.54	WDGS-070090
80 - 100	3.15 - 3.94	WDGS-080100
90 - 110	3.54 - 4.33	WDGS-090110
100 - 120	3.94 - 4.72	WDGS-100120
110 - 130	4.33 - 5.12	WDGS-110130
120 - 140	4.72 - 5.51	WDGS-120140
130 - 150	5.12 - 5.91	WDGS-130150
140 - 160	5.51 - 6.30	WDGS-140160
150 - 170	5.91 - 6.69	WDGS-150170
160 - 180	6.30 - 7.09	WDGS-160180

WORM DRIVE		WDSS
SLOTTED  STAINLESS STEEL WORM DRIVE CLAMPS		
		WORM DRIVE SLOTTED CLAMP STAINLESS STEEL
SIZE RANGE		

mm	inch	PART NO
11 - 20	0.43 - 0.79	WDSS-011020
13 - 23	0.51 - 0.91	WDSS-013023
14 - 27	0.55 - 1.06	WDSS-014027
17 - 32	0.67 - 1.26	WDSS-017032
21 - 38	0.83 - 1.50	WDSS-021038
21 - 44	0.83 - 1.73	WDSS-021044
27 - 51	1.06 - 2.01	WDSS-027051
33 - 57	1.30 - 2.24	WDSS-033057
40 - 64	1.57 - 2.52	WDSS-040064
46 - 70	1.81 - 2.76	WDSS-046070
48 - 127	1.89 - 5.00	WDSS-048127
52 - 76	2.05 - 2.99	WDSS-052076
59 - 83	2.32 - 3.27	WDSS-059083
65 - 89	2.56 - 3.50	WDSS-065089
71 - 95	2.80 - 3.74	WDSS-071095
64 - 140	2.52 - 5.51	WDSS-064140
78 - 102	3.07 - 4.02	WDSS-078102
79 - 152	3.11 - 5.98	WDSS-079152
84 - 108	3.31 - 4.25	WDSS-084108
91 - 114	3.58 - 4.49	WDSS-091114
92 - 165	3.62 - 6.50	WDSS-092165
105 - 178	4.13 - 7.01	WDSS-105178

SPIRAL CLAMP		SPCLU
LEFT HAND  SPIRAL CLAMP		
		SPIRAL CLAMP LEFT HAND ZINC PLATED STEEL
SIZE		

Dash	inch	PART NO
-24	1.1/2	SPCLU-24
-32	2	SPCLU-32
-40	2.1/2	SPCLU-40
-48	3	SPCLU-48
-64	4	SPCLU-64
-80	5	SPCLU-80
-96	6	SPCLU-96
-128	8	SPCLU-128

SPIRAL CLAMP		SPCRU
RIGHT HAND  SPIRAL CLAMP		
		SPIRAL CLAMP RIGHT HAND ZINC PLATED STEEL
SIZE		

Dash	inch	PART NO
-24	1.1/2	SPCRU-24
-32	2	SPCRU-32
-40	2.1/2	SPCRU-40
-48	3	SPCRU-48
-64	4	SPCRU-64
-80	5	SPCRU-80
-96	6	SPCRU-96
-128	8	SPCRU-128

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS



CLAMPS


ACCESSORIES

TECHNICAL

CLAMPS

STANDARD CLAMPS

BAND CLAMP		BDP4S	BDP6S	BDP8S	BDP10S	BDP12S
PRE-FORMED CLAMPS						
		BAND PRE-FORMED CLAMP STAINLESS STEEL	BAND PRE-FORMED CLAMP STAINLESS STEEL	BAND PRE-FORMED CLAMP STAINLESS STEEL	BAND PRE-FORMED CLAMP STAINLESS STEEL	BAND PRE-FORMED CLAMP STAINLESS STEEL
SIZE						
Dash	inch	PART NO	PART NO	PART NO	PART NO	PART NO
-12	3/4	BDP4S-12				
-13	13/16		BDP6S-13			
-16	1	BDP4S-16	BDP6S-16	BDP8S-16		
-19	1.3/16	BDP4S-19	BDP6S-19			
-20	1.1/4			BDP8S-20		
-24	1.1/2	BDP4S-24	BDP6S-24	BDP8S-24	BDP10S-24	
-28	1.3/4			BDP8S-28	BDP10S-28	
-30	1.7/8		BDP6S-30			
-32	2	BDP4S-32		BDP8S-32	BDP10S-32	BDP12S-32
-36	2.1/4				BDP10S-36	
-40	2.1/2				BDP10S-40	
-44	2.3/4	BDP4S-44		BDP8S-44		BDP12S-44
-48	3	BDP4S-48	BDP6S-48			BDP12S-48
-56	3.1/2	BDP4S-56				BDP12S-56
-64	4		BDP6S-64	BDP8S-64		BDP12S-64
-72	4.1/2					BDP12S-72
-80	5					BDP12S-80
-96	6					BDP12S-96
-112	7					BDP12S-112

BAND CLAMP	BDP-T	BDP-TA
PRE-FORMED CLAMP TOOLING		
	BAND PRE-FORMED TOOL	BAND PRE-FORMED TOOL ADAPTOR
	PART NO	PART NO
	BDP-T	BDP-TA

PIPE REPAIR **PRCS**

(CONTINUED ON NEXT PAGE)



USE ONLY
APPLICATION
APPROVED
FITTING



SIZE		RANGE		PIPE REPAIR CLAMP STAINLESS STEEL/ EPDM
------	--	-------	--	---

mm	inch	mm	inch	PART NO
26.9	1.06	26.4 - 27.5	1.04 - 1.08	PRCS-026-9
28.0	1.10	27.5 - 28.5	1.08 - 1.12	PRCS-028-0
30.0	1.18	29.5 - 30.6	1.16 - 1.20	PRCS-030-0
33.7	1.33	33.0 - 34.3	1.30 - 1.35	PRCS-033-7
35.0	1.38	34.5 - 35.6	1.36 - 1.40	PRCS-035-0
38.0	1.50	37.5 - 38.6	1.48 - 1.52	PRCS-038-0
42.4	1.67	41.7 - 43.0	1.64 - 1.69	PRCS-042-4
44.5	1.75	44.0 - 45.1	1.73 - 1.78	PRCS-044-5
48.3	1.90	47.6 - 50.5	1.87 - 1.99	PRCS-048-3
54.0	2.13	53.3 - 54.6	2.10 - 2.15	PRCS-054-0
57.0	2.24	56.3 - 57.7	2.22 - 2.27	PRCS-057-0
60.3	2.37	59.5 - 61.0	2.34 - 2.40	PRCS-060-3
63.0	2.48	62.2 - 63.9	2.45 - 2.52	PRCS-063-0
70.0	2.76	69.0 - 71.0	2.72 - 2.80	PRCS-070-0
73.0	2.87	72.1 - 73.8	2.84 - 2.91	PRCS-073-0
76.1	3.00	75.2 - 77.0	2.96 - 3.03	PRCS-076-1
78.0	3.07	77.1 - 78.9	3.04 - 3.11	PRCS-078-0
80.0	3.15	79.0 - 80.8	3.11 - 3.18	PRCS-080-0
84.0	3.31	83.0 - 85.0	3.27 - 3.35	PRCS-084-0
88.9	3.50	87.0 - 89.9	3.43 - 3.54	PRCS-088-9
101.6	4.00	100.4 - 102.8	3.95 - 4.05	PRCS-101-6
104.0	4.09	102.8 - 106.1	4.05 - 4.18	PRCS-104-0
110.0	4.33	108.8 - 111.4	4.28 - 4.39	PRCS-110-0
114.3	4.50	113.0 - 115.5	4.45 - 4.55	PRCS-114-3
122.0	4.80	120.8 - 123.2	4.76 - 4.85	PRCS-122-0
129.0	5.08	127.6 - 131.1	5.02 - 5.16	PRCS-129-0
133.0	5.24	131.5 - 134.4	5.18 - 5.29	PRCS-133-0
139.7	5.50	138.1 - 141.6	5.44 - 5.57	PRCS-139-7
141.6	5.57	139.6 - 142.8	5.50 - 5.62	PRCS-141-6
154.0	6.06	152.3 - 156.1	6.00 - 6.15	PRCS-154-0
159.0	6.26	157.3 - 160.7	6.19 - 6.33	PRCS-159-0
168.3	6.63	166.5 - 170.1	6.56 - 6.70	PRCS-168-3
180.0	7.09	178.0 - 182.0	7.01 - 7.17	PRCS-180-0
193.7	7.63	192.0 - 196.0	7.56 - 7.72	PRCS-193-7
206.0	8.11	202.0 - 208.0	7.95 - 8.19	PRCS-206-0
219.1	8.63	216.0 - 221.0	8.50 - 8.70	PRCS-219-1
225.0	8.86	222.0 - 227.0	8.74 - 8.94	PRCS-225-0
229.0	9.02	228.0 - 232.0	8.98 - 9.13	PRCS-229-0
244.5	9.63	242.0 - 247.0	9.53 - 9.72	PRCS-244-5
254.0	10.00	250.0 - 256.0	9.84 - 10.08	PRCS-254-0
267.0	10.51	264.0 - 269.0	10.39 - 10.59	PRCS-267-0

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS


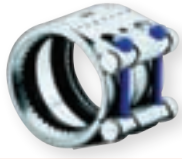
CLAMPS

ACCESSORIES

TECHNICAL

CLAMPS

PIPE REPAIR CLAMPS

PIPE REPAIR				PRCS
(CONTINUED FROM PREVIOUS PAGE)				
 USE ONLY APPLICATION APPROVED FITTING				
SIZE		RANGE		PIPE REPAIR CLAMP STAINLESS STEEL/ EPDM
mm	inch	mm	inch	PART NO
273.0	10.75	270.0 - 275.0	10.63 - 10.83	PRCS-273-0
306.0	12.05	302.0 - 308.0	11.89 - 12.13	PRCS-306-0
323.9	12.75	320 - 327.0	12.60 - 12.87	PRCS-323-9
326.0	12.83	322 - 329.0	12.68 - 12.95	PRCS-326-0
355.6	14.00	352 - 359.0	13.86 - 14.13	PRCS-355-6
406.4	16.00	402.0 - 410.0	15.83 - 16.14	PRCS-406-4
429.0	16.89	426.0 - 431.0	16.77 - 16.97	PRCS-429-0
442.0	17.4	439.0 - 444.0	17.28 - 17.48	PRCS-442-0
457.2	18.00	454.0 - 459.0	17.87 - 18.07	PRCS-457-2
508.0	20.00	505.0 - 510.0	19.88 - 20.08	PRCS-508-0
531.0	20.91	528.0 - 534.0	20.79 - 21.02	PRCS-531-0
558.0	21.97	556.0 - 562.0	21.89 - 22.13	PRCS-558-0
609.6	24.00	606.0 - 613.0	23.86 - 24.13	PRCS-609-6
634.0	24.96	631.0 - 637.0	24.84 - 25.08	PRCS-634-0
711.2	28.00	707.0 - 715.0	27.83 - 28.15	PRCS-711-2
762.0	30.00	758.0 - 766.0	29.84 - 30.16	PRCS-762-0
812.8	32.00	808.0 - 817.0	31.81 - 32.17	PRCS-812-8
914.4	36.00	909.0 - 919.0	35.79 - 36.18	PRCS-914-4
1,016.0	40.00	1,013.0 - 1,019.0	39.88 - 40.12	PRCS-1016-0
1,117.5	44.00	1,114.0 - 1,120.0	43.86 - 44.09	PRCS-1117-5
1,219.2	48.00	1,216.0 - 1,222.0	47.87 - 48.11	PRCS-1219-2

MERCHANDISER	NHC135W1
NORMACLAMP® NHC135W1 Merchandiser Worm Drive Clamps Zinc Plated Steel	

MERCHANDISER CONTENTS			
PART NO	BAND WIDTH mm	CLAMPING RANGE mm	QTY
8-12-9W1	9.0	8-12	20
10-16-9W1	9.0	10-16	20
12-22-9W1	9.0	12-22	20
16-27-12W1	12.0	16-27	15
20-32-12W1	12.0	20-32	15
25-40-12W1	12.0	25-40	15
35-50-12W1	12.0	35-50	15
40-60-12W1	12.0	40-60	15

INTRODUCTION

HOSE

MERCHANDISER	NHC135W4
NORMACLAMP® NHC135W4 Merchandiser Worm Drive Clamps Stainless Steel	

MERCHANDISER CONTENTS			
PART NO	BAND WIDTH mm	CLAMPING RANGE mm	QTY
8-16-9	9.0	8-16	20
12-20-9	9.0	12-20	20
16-27-12	12.0	16-27	15
20-32-12	12.0	20-32	15
25-40-12	12.0	25-40	15
35-50-12	12.0	35-50	15
40-60-12	12.0	40-60	15

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

CLAMPS

MERCHANDISERS

MERCHANDISER

NHC190W1

NORMACLAMP® NHC190W1
Merchandiser

Worm Drive Clamps
Zinc Plated Steel



MERCHANDISER CONTENTS

PART NO	BAND WIDTH mm	CLAMPING RANGE mm	QTY
8-12-9W1	9.0	8-12	10
10-16-9W1	9.0	10-16	10
12-22-9W1	9.0	12-22	10
16-27-12W1	12.0	16-27	10
20-32-12W1	12.0	20-32	10
25-40-12W1	12.0	25-40	10
30-45-12W1	12.0	30-45	10
35-50-12W1	12.0	35-50	10
40-60-12W1	12.0	40-60	10
50-70-12W1	12.0	50-70	10
60-80-12W1	12.0	60-80	10
70-90-12W1	12.0	70-90	10
80-100-12W1	12.0	80-100	10
90-110-12W1	12.0	90-110	10
100-120-12W1	12.0	100-120	10
110-130-12W1	12.0	110-130	10
120-140-12W1	12.0	120-140	10
130-150-12W1	12.0	130-150	10
140-160-12W1	12.0	140-160	10

MERCHANDISER

NHC190W4

NORMACLAMP® NHC190W4
Merchandiser

Worm Drive Clamps
Stainless Steel



MERCHANDISER CONTENTS

PART NO	BAND WIDTH mm	CLAMPING RANGE mm	QTY
8-12-9W4	9.0	8-12	10
8-16-9W4	9.0	10-16	10
12-20-9W4	9.0	12-20	10
16-27-12W4	12.0	16-27	10
20-32-12W4	12.0	20-32	10
25-40-12W4	12.0	25-40	10
30-45-12W4	12.0	30-45	10
35-50-12W4	12.0	35-50	10
40-60-12W4	12.0	40-60	10
50-70-12W4	12.0	50-70	10
60-80-12W4	12.0	60-80	10
70-90-12W4	12.0	70-90	10
80-100-12W4	12.0	80-100	10
90-110-12W4	12.0	90-110	10
100-120-12W4	12.0	100-120	10
110-130-12W4	12.0	110-130	10
120-140-12W4	12.0	120-140	10
130-150-12W4	12.0	130-150	10
140-160-12W4	12.0	140-160	10

KIT **NHC100W1**

NORMACLAMP® NHC 100W1 Assortment Kit

Worm Drive Clamps
Zinc Plated Steel



KIT CONTENTS			
PART NO	BAND WIDTH mm	CLAMPING RANGE mm	QTY
SL9-11-9W1	9.0	9-11	10
SL11-13-9W1	9.0	11-13	10
8-12-9W1	9.0	8-12	10
10-16-9W1	9.0	10-16	12
12-22-9W1	9.0	12-22	10
16-27-12W1	12.0	16-27	10
20-32-12W1	12.0	20-32	8
25-40-12W1	12.0	25-40	10
35-50-12W1	12.0	35-50	10
40-60-12W1	12.0	40-60	10
SW7	Flexidriver	7mm Hex	1

KIT **NHC100W4**

NORMACLAMP® NHC 100W4 Assortment Kit

Worm Drive Clamps
Stainless Steel



KIT CONTENTS			
PART NO	BAND WIDTH mm	CLAMPING RANGE mm	QTY
MINI10-9W4	9.0	9.5-11	10
MINI12-9W4	9.0	11.5-13	10
8-16-9W4	9.0	8-16	12
12-20-9W4	9.0	12-20	20
16-27-12W4	12.0	16-27	10
20-32-12W4	12.0	20-32	8
25-40-12W4	12.0	25-40	10
35-50-12W4	12.0	35-50	10
40-60-12W4	12.0	40-60	10
SW6-7	Flexidriver	6 & 7mm Hex	1

TOOLS **FLEXIDRIVERS**

Flexidrivers
Suit Worm Drive Hose Clamps



CONTENTS		
PART NO	SIZE	QTY
SW6	6mm	1
SW7	7mm	1
SW7L	7mm	1
SW6-7	6-7mm	1
SW6-8	1/4" & 5/16"	1
SW8L	5/16"	1

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL



ACCESSORIES AND SPECIALTY PRODUCTS



HOSE GUNS AND NOZZLES



NZDRA P197	NZFTJY P197	NZFTSY P197	NZFTSHY P197	NZTRLY P197	NZTRMB P197
BSPT FEMALE DRUM NOZZLE ALUMINIUM	BSPT FEMALE FIRE TWIST NOZZLE JET PLASTIC	BSPT FEMALE FIRE TWIST NOZZLE SPRAY PLASTIC	BSPT FEMALE FIRE TWIST NOZZLE SPRAY HOSETAIL PLASTIC	BSPT FEMALE LIGHT DUTY (POWER SPRAY) PLASTIC	BSPT FEMALE MEDIUM DUTY BRASS/RUBBER

HOSE GUNS AND NOZZLES



NZTRHU P197
BSPT FEMALE HEAVY DUTY STEEL

VALVES BSP

VBMB P198	VBB P198	VBMMFB P198	VBMB P198	VBY P198	VB1S P198	VB2S P198
BALL VALVE MALE - FEMALE NICKEL PLATED BRASS	BALL VALVE FEMALE - FEMALE NICKEL PLATED BRASS	BALL VALVE MINI MALE - FEMALE NICKEL PLATED BRASS	BALL VALVE MINI FEMALE - FEMALE NICKEL PLATED BRASS	BALL VALVE MINI FEMALE - FEMALE PVC	BALL VALVE FEMALE - FEMALE ONE PIECE STAINLESS STEEL	BALL VALVE FEMALE - FEMALE TWO PIECE STAINLESS STEEL

VALVES BSP

VB3S P198	VBAMFB P199	VBAB P199	VBAWB P199	VCSB P199	VCS2S P199	VCS3S P199
BALL VALVE FEMALE - FEMALE THREE PIECE STAINLESS STEEL	BALL VALVE MALE - FEMALE AGA APPROVED NICKEL PLATED BRASS	BALL VALVE FEMALE - FEMALE AGA APPROVED NICKEL PLATED BRASS	BALL VALVE FEMALE - FEMALE AGA APPROVED + WATERMARK NICKEL PLATED BRASS	CHECK SPRING VALVE FEMALE - FEMALE NICKEL PLATED BRASS	CHECK SPRING VALVE FEMALE - FEMALE TWO PIECE STAINLESS STEEL	CHECK SPRING VALVE FEMALE - FEMALE THREE PIECE STAINLESS STEEL

VALVES BSP

VSCB P200	VSCS P200	VGB P200	VGS P200	VFNB P201
SWING CHECK VALVE BSPT FEMALE BRASS	SWING CHECK VALVE BSPT FEMALE STAINLESS STEEL	GATE VALVE FEMALE - FEMALE UNTESTED NICKEL PLATED BRASS	GATE VALVE FEMALE - FEMALE UNTESTED STAINLESS STEEL	FOOTVALVE NON-RETURN BSPT FEMALE BRASS

VALVES BSP



VHNHG P201
FOOTVALVE NON-RETURN HOSETAIL GALVANISED STEEL

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

ACCESSORIES

PICTORIAL INDEX

SUCTION STRAINERS

SSTFU
P201



BSPT FEMALE
ZINC PLATED STEEL

SSTFS-M3
P201



BSPT FEMALE
STAINLESS STEEL

STFS-M5
P201



BSPT FEMALE
STAINLESS STEEL

SUCTION STRAINERS

SSTHG
P201



HOSETAIL
GALVANISED STEEL

SSTHH
P201



HOSETAIL
POLYPROPYLENE



HOSE REELS

RRAW
P202



AUTO RETRACT
AIR/WATER

RRHW
P202



AUTO RETRACT
HOT WASH

RRCW
P202



AUTO RETRACT
COLD WASH

RM
P202



MANUAL
PAINTED STEEL

KITS, DISPLAY AND MERCHANDISE STANDS

CA109
P208



METRIC
GREASE NIPPLES
ASSORTMENT KIT

CA108
P208



IMPERIAL
GREASE NIPPLES
MASTER KIT

CA2070
P208



BRASS
HOSE FITTINGS

CA2075
P208



VACUUM HOSE AND TUBE
CONNECTOR
MASTER KIT

CA2415
P208



GREASE NIPPLES
IMPERIAL AND METRIC
MASTER KIT

CVH1
P203



VACUUM HOSE AND TUBE
CONNECTORS
MERCHANDISER

CSP056M-1
P204



STAINLESS STEEL
MERCHANDISER

KITS, DISPLAY AND MERCHANDISE STANDS

CSP056M-2
P205



STAINLESS STEEL
MERCHANDISER

CHC1
P206



BRASS PACK HOSE
CONNECTORS
MERCHANDISER

CHC2
P207



BRASS PACK HOSE
CONNECTORS
MERCHANDISER

KITS, HOSE & OPERATION PROTECTION

HSWG
P208



WHIPSOCK
2 EYE
GALVANISED STEEL

HSWWG-S
P208



WHIPCHECK WIRE
SMALL
GALVANISED STEEL

HSWWG-M
P208



WHIPCHECK WIRE
MEDIUM
GALVANISED STEEL

HSWWG-L
P208



WHIPCHECK WIRE
LARGE
GALVANISED STEEL

SPILL CONTROL

RSKIT P209	RSK-PS20P P209	RSK-PS5K P209	RSK-15K P209			
RYCO SPILL KIT COMPLETE	RYCO PREMIUM SWEEP 20L	RYCO PREMIUM SWEEP 5KG	RYCO GRANULAR SWEEP 15KG			

INTRODUCTION

FUEL MANAGEMENT

BNM800 P211	AUS45 P211	DRYBREAK P211	ULTRA-FINE P212	FLUSH-FACED P212	CLASSIC P212	COUPLINGS P212
800 LPM MINING REFUELLING SYSTEM	UNDERGROUND MINING REFUELLING SYSTEM	BANLAW SECUREFILL™ DRY BREAK	ULTRA-FINE FILTERED VENT	BANLAW LUBECENTRAL™ FLUSH-FACED COUPLING RANGE	BANLAW LUBECENTRAL™ CLASSIC RANGE OF OIL COUPLINGS	FLUSH-FACE "CONNECT UNDER PRESSURE" GREASE AND FLUID COUPLINGS

HOSE

FUEL MANAGEMENT

REFUELING P213	CHECK VALVE P213	BREAKAWAY P213				
REFUELLING SYSTEM ACCESSORIES	CHECK VALVE FUEL RECEIVER	BREAKAWAY VALVE				

COUPLINGS

OILS, LUBRICANTS AND SPECIALTY PRODUCTS

RHOIL32 P214	RHOIL46 P214	RHOIL68 P214	RHVI32 P214	RHVI46 P214	RHVI68 P214	RHZF32 P215
HYDRAULIC OIL	HYDRAULIC OIL	HYDRAULIC OIL	HVI HYDRAULIC OIL	HVI HYDRAULIC OIL	HVI HYDRAULIC OIL	ZINC FREE HYDRAULIC OIL

ADAPTORS

OILS, LUBRICANTS AND SPECIALTY PRODUCTS

RHZF46 P215	RHZF68 P215	RHFG32 P215	RHFG46 P215	RHFG68 P215	RHSB32 P215	RHSB46 P215
ZINC FREE HYDRAULIC OIL	ZINC FREE HYDRAULIC OIL	FOOD GRADE HYDRAULIC OIL	FOOD GRADE HYDRAULIC OIL	FOOD GRADE HYDRAULIC OIL	S-TYPE SYNTHETIC HYDRAULIC OIL	S-TYPE SYNTHETIC HYDRAULIC OIL

CLAMPS

OILS, LUBRICANTS AND SPECIALTY PRODUCTS

RHSB68 P215	RHBV32 P216	RHBV46 P216	RHBV68 P216	RHFR46 P216	RHFR68 P216	RHFR720 P216
S-TYPE SYNTHETIC HYDRAULIC OIL	V-TYPE HYDRAULIC OIL	V-TYPE HYDRAULIC OIL	V-TYPE HYDRAULIC OIL	FIRE RESISTANT HYDRAULIC FLUID	FIRE RESISTANT HYDRAULIC FLUID	FIRE RESISTANT HYDRAULIC FLUID

ACCESSORIES

TECHNICAL








ACCESSORIES

PICTORIAL INDEX

OILS, LUBRICANTS AND SPECIALTY PRODUCTS

RDCJ4 P216	RDCI4 P216	RGLCM P217	RGLC P217	RWD P217	RTW P217	RHDD P217
						
DIESEL EXTREME CJ-4 15W/40	DIESEL CJ-4 15W/40	GREASE LITH COMPLEX MOLY	GREASE LITH COMPLEX	WATER BASED DEGREASER	TRUCK WASH	HEAVY DUTY DEGREASER








OILS, LUBRICANTS AND SPECIALTY PRODUCTS

RSHC P217	RMDEG P217	RBCLEAN P217	REDEG P217	CCLEAN P217	RDLUBE P217	RTSHINE P217
						
SUPER HAND CLEANER	MECHANICS DEGREASER	BRAKE AND PARTS CLEANER	EVERYDAY DEGREASER	CARBY CLEANER	DE-RUST LUBRICANT	TYRE SHINE

OILS, LUBRICANTS AND SPECIALTY PRODUCTS

AM600A P218	AM660AN P218	AM670AN3 P218	AMG10040N P218	AM424170 P219	AML4675 P219	AMB1-120-1-24 P219
						
GREASE GUN	TRIGGER ACTION GREASE GUN	GREASE GUN	CORDLESS GREASE GUN	GREASE KIT	GREASE NIPPLE ASSORTMENT KIT	LUBRICATOR




OILS, LUBRICANTS AND SPECIALTY PRODUCTS


AMM SERIES P219	AMBEKAMAX-20 P220	AMBEKAEP-1 P220	AMBL-I P220	AM220ACB P220	AM501A P221	AM5060AN P221
						
GREASE KIT	GREASE LUBRICATION SYSTEM	PUMP	INJECTOR	OIL TRANSFER PUMP	ROTARY DRUM PUMP	HI SPEED REFUELLING DRUM PUMP

OILS, LUBRICANTS AND SPECIALTY PRODUCTS

AM52000 P221	AM60068PA P221	AML40040PA P222	AM51008 P222	AM8828N2 P222	AM10028 P222	AM454110N P223
						
DIESEL REFUELLING TANK KIT	DISPENSING KIT	DIESEL REFUELLING KIT	MECHANICAL DIESEL METER	GEAR OIL DRUM PUMP	HEAVY DUTY OIL DRUM PUMP	OIL TRANSFER KIT

OILS, LUBRICANTS AND SPECIALTY PRODUCTS



AM378100 P223	AM334900 P223	AMSA300N P223	AMSA400N P224	AM8080-G P224	AM201220 P224	AMDW20500KS P224
						
MOBILE OIL TRANSFER KIT	OIL TRANSFER PUMP	AIR HOSE REEL	AIR HOSE REEL	HOSE REEL	ADBLUE DISPENSING KIT	DIESEL TRANSFER WATER PUMP

NOZZLE		NZDRA
DRUM NOZZLE  WASHDOWN NOZZLE 		
SIZE		BSPT FEMALE DRUM NOZZLE ALUMINIUM

Dash	inch	PART NO
-08	1/2	NZDRA-08
-12	3/4	NZDRA-12
-16	1	NZDRA-16

NOZZLE		NZFTJY	NZFTSY	NZFTSHY	NZFTSHB	NZTRLY
FIRE TWIST NOZZLE  PVC/METAL NOZZLE  N8  N6   						
SIZE		FIRE TWIST NOZZLE JET H/T PLASTIC	FIRE TWIST NOZZLE SPRAY H/T PLASTIC	FIRE TWIST NOZZLE SPRAY HOSETAIL PLASTIC	MEDIUM DUTY BRASS/RUBBER	LIGHT DUTY (POWER SPRAY) PLASTIC

Dash	inch	PART NO	PART NO	PART NO	PART NO	PART NO
-12	3/4	NZFTJY-12	NZFTSY-12	NZFTSHY-12	NZFTSHB-12	NZTRLY-12
-16	1		NZFTSY-16			

NOZZLE		NZTRHU
TRIGGER WASHDOWN  WASHDOWN NOZZLE 		
SIZE		BSPT FEMALE HEAVY DUTY STEEL

Dash	inch	PART NO
-12	3/4	NZTRHU-12

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS






CLAMPS




ACCESSORIES


TECHNICAL


ACCESSORIES

VALVES

VALVES		VBMFB	VBB	VBMMFB	VBMB	VBY
BALL VALVES BSP						
						
SIZE		BALL VALVE MALE - FEMALE NICKEL PLATED BRASS	BALL VALVE FEMALE - FEMALE NICKEL PLATED BRASS	BALL VALVE MINI MALE - FEMALE NICKEL PLATED BRASS	BALL VALVE MINI FEMALE - FEMALE NICKEL PLATED BRASS	BALL VALVE MINI FEMALE - FEMALE NICKEL/PVC
Dash	inch	PART NO	PART NO	PART NO	PART NO	PART NO
-02	1/8			VBMMFB-02	VBMB-02	
-04	1/4	VBMFB-04	VBB-04	VBMMFB-04	VBMB-04	
-06	3/8	VBMFB-06	VBB-06	VBMMFB-06	VBMB-06	
-08	1/2	VBMFB-08	VBB-08	VBMMFB-08	VBMB-08	
-12	3/4	VBMFB-12	VBB-12	VBMMFB-12	VBMB-12	VBY-12
-16	1	VBMFB-16	VBB-16			VBY-16
-20	1.1/4	VBMFB-20	VBB-20			VBY-20
-24	1.1/2	VBMFB-24	VBB-24			VBY-24
-32	2	VBMFB-32	VBB-32			VBY-32
-40	2.1/2	VBMFB-40	VBB-40			VBY-40
-48	3	VBMFB-48	VBB-48			VBY-48
-64	4	VBMFB-64	VBB-64			VBY-64

VALVES		VB1S	VB2S	VB3S
BALL VALVES BSP				
				
SIZE		BALL VALVE FEMALE - FEMALE ONE PIECE STAINLESS STEEL	BALL VALVE FEMALE - FEMALE TWO PIECE STAINLESS STEEL	BALL VALVE FEMALE - FEMALE THREE PIECE STAINLESS STEEL
Dash	inch	PART NO	PART NO	PART NO
-04	1/4	VB1S-04	VB2S-04	
-06	3/8	VB1S-06	VB2S-06	
-08	1/2	VB1S-08	VB2S-08	VB3S-08
-12	3/4	VB1S-12	VB2S-12	VB3S-12
-16	1	VB1S-16	VB2S-16	VB3S-16
-20	1.1/4	VB1S-20	VB2S-20	VB3S-20
-24	1.1/2	VB1S-24	VB2S-24	VB3S-24
-32	2	VB1S-32	VB2S-32	VB3S-32
-40	2.1/2			VB3S-40
-48	3			VB3S-48
-64	4			VB3S-64

VALVES		VBAMFB	VBAB	VBAWB
BALL VALVES BSP				
				
SIZE		BALL VALVE MALE - FEMALE AGA APPROVED NICKEL PLATED BRASS	BALL VALVE FEMALE - FEMALE AGA APPROVED NICKEL PLATED BRASS	BALL VALVE FEMALE - FEMALE AGA APPROVED +WATERMARK NICKEL PLATED BRASS
Dash	inch	PART NO	PART NO	PART NO
-04	1/4		VBAB-04	
-06	3/8		VBAB-06	
-08	1/2	VBAMFB-08	VBAB-08	VBAWB-08
-12	3/4	VBAMFB-12	VBAB-12	VBAWB-12
-16	1	VBAMFB-16	VBAB-16	VBAWB-16
-20	1.1/4	VBAMFB-20	VBAB-20	VBAWB-20
-24	1.1/2	VBAMFB-24	VBAB-24	VBAWB-24
-32	2		VBAB-32	VBAWB-32

VALVES		VCSB	VCS2S	VCS3S
CHECK SPRING VALVES BSP				
				
SIZE		CHECK SPRING VALVE FEMALE - FEMALE NICKEL PLATED BRASS	CHECK SPRING VALVE FEMALE - FEMALE 2-PIECE STAINLESS STEEL	CHECK SPRING VALVE FEMALE - FEMALE 3-PIECE STAINLESS STEEL
Dash	inch	PART NO	PART NO	PART NO
-04	1/4			VCS3S-04
-06	3/8	VCSB-06		VCS3S-06
-08	1/2	VCSB-08	VCS2S-08	VCS3S-08
-12	3/4	VCSB-12	VCS2S-12	VCS3S-12
-16	1	VCSB-16	VCS2S-16	VCS3S-16
-20	1.1/4	VCSB-20	VCS2S-20	VCS3S-20
-24	1.1/2	VCSB-24	VCS2S-24	VCS3S-24
-32	2	VCSB-32	VCS2S-32	VCS3S-32
-40	2.1/2	VCSB-40		VCS3S-40
-48	3	VCSB-48		VCS3S-48
-64	4	VCSB-64		VCS3S-64

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS



CLAMPS



ACCESSORIES




TECHNICAL







ACCESSORIES

VALVES

VALVES		VSCB	VSCS
SWING CHECK VALVES BSP			
SIZE		SWING CHECK VALVE BSPT FEMALE BRASS	SWING CHECK VALVE BSPT FEMALE STAINLESS STEEL
Dash	inch	PART NO	PART NO
-08	1/2	VSCB-08	VSCS-08
-12	3/4	VSCB-12	VSCS-12
-16	1	VSCB-16	VSCS-16
-20	1.1/4	VSCB-20	VSCS-20
-24	1.1/2	VSCB-24	VSCS-24
-32	2	VSCB-32	VSCS-32
-40	2.1/2	VSCB-40	
-48	3	VSCB-48	
-64	4	VSCB-64	

VALVES		VGB	VGS
GATE CHECK VALVES BSP			
SIZE		GATE VALVE FEMALE-FEMALE UNTESTED NICKEL PLATED BRASS	GATE VALVE FEMALE-FEMALE UNTESTED STAINLESS STEEL
Dash	inch	PART NO	PART NO
-08	1/2	VGB-08	VGS-08
-12	3/4	VGB-12	VGS-12
-16	1	VGB-16	VGS-16
-20	1.1/4	VGB-20	VGS-20
-24	1.1/2	VGB-24	VGS-24
-32	2	VGB-32	VGS-32
-40	2.1/2	VGB-40	
-48	3	VGB-48	
-64	4	VGB-64	

VALVES		VFNB	VHNHG
FOOTVALVES  >300 PSI HOSE TAIL COUPLINGS			
			
SIZE		FOOTVALVE NON-RETURN BSPT FEMALE BRASS	FOOTVALVE NON-RETURN HOSETAIL GALVANISED STEEL
Dash	inch	PART NO	PART NO
-08	1/2	VFNB-08	
-12	3/4	VFNB-12	
-16	1	VFNB-16	
-20	1.1/4	VFNB-20	
-24	1.1/2	VFNB-24	
-32	2	VFNB-32	
-40	2.1/2	VFNB-40	
-48	3	VFNB-48	VHNHG-48
-64	4	VFNB-64	VHNHG-64
-96	6		VHNHG-96
-128	8		VHNHG-128

SUCTION STRAINERS		SSTFU	SSTFS-M3	STFS-M5	SSTHG	SSTHH
 >150 PSI HOSE TAIL COUPLINGS						
						
SIZE		SUCTION STRAINER BSPT FEMALE ZINC PLATED STEEL	SUCTION STRAINER 3 MICRON MESH BSPT FEMALE STAINLESS STEEL	SUCTION STRAINER 5 MICRON MESH BSPT FEMALE STAINLESS STEEL	SUCTION STRAINER HOSETAIL GALVANISED STEEL	SUCTION STRAINER HOSETAIL POLYPROPYLENE
Dash	inch	PART NO	PART NO	PART NO	PART NO	PART NO
-24	1.1/2	SSTFU-24			SSTHG-24	SSTHH-24
-32	2	SSTFU-32	SSTFS-32M3	STFS-32M5	SSTHG-32	SSTHH-32
-40	2.1/2	SSTFU-40			SSTHG-40	SSTHH-40
-48	3	SSTFU-48			SSTHG-48	SSTHH-48
-64	4	SSTFU-64			SSTHG-64	
-80	5	SSTFU-80				
-96	6	SSTFU-96			SSTHG-96	
-128	8	SSTFU-128			SSTHG-128	

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS




CLAMPS


ACCESSORIES

TECHNICAL

ACCESSORIES

HOSE REELS

HOSE REELS		RRAW	RRHW	RRCW
AUTO RETRACT				
				
HOSE SIZE	REEL CAPACITY	HOSE REEL AUTO RETRACT AIR/WATER	HOSE REEL AUTO RETRACT HOT WASH	HOSE REEL AUTO RETRACT COLD WASH
Dash	Metres	PART NO	PART NO	PART NO
-05	15	RRAW5-15M		
-05	20	RRAW5-20M		
-06	15	RRAW6-15M	RRHW6-15M	RRCW6-15M
-06	20	RRAW6-20M	RRHW6-20M	RRCW6-20M
-08	15	RRAW8-15M	RRHW8-15M	RRCW8-15M
-08	18	RRAW8-18M		RRCW8-18M

HOSE REELS		RM
MANUAL		
		
HOSE SIZE	REEL CAPACITY	HOSE REEL MANUAL PAINTED STEEL
Dash	Metres	PART NO
-08	30	RM8-30
-08	50	RM8-50
-12	40	RM12-40
-12	60	RM12-60
-12	100	RM12-100
-12	200	RM12-200
-16	60	RM16-60
-16	100	RM16-100
-20	14	RM20-14
-20	57	RM20-57

MERCHANDISER

CVH1

VACUUM HOSE AND TUBE CONNECTORS

Merchandise Contents (49 Types)

CVH1 Vacuum Hose and Tube Connectors

Includes:

- 3 x 49 types of Vacuum Connector Packs
- Total of 147 packs
- Merchandise Dimensions: 400mm x 1100mm (incl. header board)

This wall merchandiser carries a popular selection of vacuum and fuel hose fittings. All packaged in reusable blisters, designed to be sold at one price.

These fittings are ideal for automotive and industrial use. They are fuel compatible with connectors, manufactured from acetal resin and feature tapered thread fittings made from polyamide 6.

- 2 and 3-Way Barb Fittings
- Hex Plugs
- 'Y' Barbs
- 'T' Barbs
- Straight Barbs
- Male Hose Tails
- Vacuum Caps



MERCHANDISER CONTENTS

PART NO	SIZE	DESCRIPTION
CVC1	3mm	'T' Piece
CVC2	5mm	'T' Piece
CVC3	6mm	'T' Piece
CVC4	8mm	'T' Piece
CVC5	10mm	'T' Piece
CVC6	3mm	90° Elbows
CVC7	5mm	90° Elbows
CVC8	6mm	90° Elbows
CVC9	8mm	90° Elbows
CVC10	10mm	90° Elbows
CVC11	3mm - 4mm - 3mm	Reducing 'T' Piece
CVC12	4mm - 6mm - 4mm	Reducing 'T' Piece
CVC13	6mm - 4mm - 6mm	Reducing 'T' Piece
CVC14	8mm - 4mm - 8mm	Reducing 'T' Piece
CVC15	8mm - 6mm - 8mm	Reducing 'T' Piece
CVC16	10mm - 6mm - 10mm	Reducing 'T' Piece
CVC17	3mm	Straight Connectors
CVC18	5mm	Straight Connectors
CVC19	6mm	Straight Connectors
CVC20	8mm	Straight Connectors
CVC21	10mm	Straight Connectors
CVC22	4mm - 3mm	Reducing Straight Connectors
CVC23	6mm - 4mm	Reducing Straight Connectors
CVC24	8mm - 6mm	Reducing Straight Connectors
CVC25	10mm - 6mm	Reducing Straight Connectors
CVC26	10mm - 8mm	Reducing Straight Connectors
CVC27	5mm	4-Way 'X' Piece
CVC28	Piece 6mm	4-Way 'X' Piece
CVC29	3mm	3-Way 'Y' Piece
CVC30	5mm	3-Way 'Y' Piece
CVC31	6mm	3-Way 'Y' Piece
CVC32	8mm	3-Way 'Y' Piece
CVC33	10mm	3-Way 'Y' Piece
CVC34	6mm - 8mm - 6mm	Reducing "Y" Piece
CVC35	4mm x 1/4" BSP	Tailpiece
CVC36	5mm x 1/4" BS	Tailpiece
CVC37	6mm x 1/4" BSP	Tailpiece
CVC38	8mm x 1/4" BSP	Tailpiece
CVC39	6mm x 1/4" BSP	Elbows
CVC40	8mm x 1/4" BSP	Elbows
CVC41	1/8" BSP	Hex Taper Plugs
CVC42	1/4" BSP	Hex Taper Plugs
CVC43	3/8" BSP	Hex Taper Plugs
CVC44	3mm	Caps
CVC45	4mm	Caps
CVC46	5mm	Caps
CVC47	6mm	Caps
CVC48	8mm	Caps
CVC49	10mm	Caps

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

ACCESSORIES

DISPLAY AND MERCHANDISE STANDS

MERCHANDISER

CSP056M-1

STAINLESS STEEL

Merchandise Contents (56 Types)
Marine Grade 316/A4 Stainless Steel

Includes:

- 3 x 56 types of Marine Grade 316/A4 Stainless Steel
- Total of 168 Packs
- Merchandise Dimensions: 440mm x 900mm (incl. header board)

A carefully selected range of Marine Grade 316/A4 Stainless Steel products, packaged in reusable clam shell with a two price structure. Barcoded for easy identification.

- Self-Tapping Screws
- Split Pins
- Bolts and Nuts
- Spring and Flat Washer
- Machine Screws and Nuts
- Socket Head Cap Screws



MERCHANDISER CONTENTS

PART NO	SIZE	DESCRIPTION
CSP02	6G x 1/2"	Self-Tapping Screws Countersunk
CSP03	6G x 3/4"	Self-Tapping Screws Countersunk
CSP04	6G x 1"	Self-Tapping Screws Countersunk
CSP05	8G x 3/4"	Self-Tapping Screws Countersunk
CSP06	8G x 1"	Self-Tapping Screws Countersunk
CSP07	10G x 3/4"	Self-Tapping Screws Countersunk
CSP08	10G x 1"	Self-Tapping Screws Countersunk
CSP09	4G x 5/8"	Self-Tapping Screws Pan x Rec
CSP10	6G x 1/2"	Self-Tapping Screws Pan x Rec
CSP11	6G x 3/4"	Self-Tapping Screws Pan x Rec
CSP12	6G x 1"	Self-Tapping Screws Pan x Rec
CSP13	8G x 3/8"	Self-Tapping Screws Pan x Rec
CSP14	8G x 1/2"	Self-Tapping Screws Pan x Rec
CSP15	8G x 3/4"	Self-Tapping Screws Pan x Rec
CSP16	8G x 1"	Self-Tapping Screws Pan x Rec
CSP17	10G x 1/2"	Self-Tapping Screws Pan x Rec
CSP18	10G x 1"	Self-Tapping Screws Pan x Rec
CSP19	6 x 25mm	Screws and Nuts Pan x Rec
CSP20	6 x 50mm	Screws and Nuts Pan x Rec
CSP21	6 x 25mm	Screws and Nuts Countersunk
CSP22	6 x 50mm	Screws and Nuts Countersunk
CSP23	1.6 x 32mm	Split Pins
CSP24	2.0 x 40mm	Split Pins
CSP25	2.5 x 40mm	Split Pins
CSP26	3.2 x 50mm	Split Pins
CSP27	4mm	Spring Washers
CSP28	5mm	Spring Washers
CSP29	6mm	Spring Washers
CSP30	8mm	Spring Washers
CSP31	10mm	Spring Washers
CSP32	4mm	Flat Washers
CSP33	5mm	Flat Washers
CSP34	6mm	Flat Washers
CSP35	8mm	Flat Washers
CSP36	10mm	Flat Washers
CSP37	4 x 20mm	Set Screws and Nuts
CSP38	4 x 35mm	Set Screws and Nuts
CSP39	5 x 25mm	Set Screws and Nuts
CSP40	5 x 35mm	Set Screws and Nuts
CSP41	6 x 16mm	Set Screws and Nuts
CSP42	6 x 25mm	Set Screws and Nuts
CSP43	6 x 40mm	Set Screws and Nuts
CSP44	8 x 25mm	Set Screws and Nuts
CSP45	8 x 35mm	Set Screws and Nuts
CSP46	8 x 40mm	Set Screws and Nuts
CSP47	8 x 50mm	Set Screws and Nuts
CSP48	10 x 25mm	Set Screws and Nuts
CSP49	10 x 35mm	Set Screws and Nuts
CSP50	10 x 50mm	Set Screws and Nuts
CSP51	5 x 10mm	Socket Head Cap Screws
CSP52	5 x 25mm	Socket Head Cap Screws
CSP53	6 x 16mm	Socket Head Cap Screws
CSP54	6 x 25mm	Socket Head Cap Screws
CSP55	8 x 16mm	Socket Head Cap Screws
CSP56	8 x 25mm	Socket Head Cap Screws
CSP57	10 x 25mm	Socket Head Cap Screws

MERCHANDISER

CSP056M-2

STAINLESS STEEL

Merchandise Contents (56 Types)
Marine Grade 316/A4 Stainless Steel

Includes:

- 3 x 56 types of Marine Grade 316/A4 Stainless Steel
- Total of 168 Packs
- Merchandise Dimensions: 440mm x 900mm 9 (incl. header board)

A carefully selected range of Marine Grade 316/A4 Stainless Steel products, packaged in reusable clam shell with a three price structure. Barcoded for easy identification.

- **Self-Tapping Screws**
- **Machine Screws and Nuts**
- **Self-Locking Nuts**
- **Bolts and Nuts UNC**
- **Dome Nuts**



MERCHANDISER CONTENTS

PART NO	SIZE	DESCRIPTION
CSP58	1/4 x 3/4" UNC	Hex Set Screws
CSP59	1/4 x 1" UNC	Hex Set Screws
CSP60	1/4 x 1-1/2" UNC	Hex Set Screws
CSP61	5/16 x 1" UNC	Hex Set Screws
CSP62	5/16 x 1-1/2" UNC	Hex Set Screws
CSP63	3/8 x 1" UNC	Hex Set Screws
CSP64	3/8 x 1-1/2" UNC	Hex Set Screws
CSP65	3/16 x 1/2" UNC	Pan Head Screws
CSP66	3/16 x 3/4" UNC	Pan Head Screws
CSP67	3/16 x 1" UNC	Pan Head Screws
CSP68	3/16 x 1-1/4" UNC	Pan Head Screws
CSP69	3/16 x 1-1/2" UNC	Pan Head Screws
CSP70	3/16 x 2" UNC	Pan Head Screws
CSP71	1/4 x 1/2" UNC	Pan Head Screws
CSP72	1/4 x 3/4" UNC	Pan Head Screws
CSP73	1/4 x 1" UNC	Pan Head Screws
CSP74	1/4 x 1-1/4" UNC	Pan Head Screws
CSP75	P1/4 x 1-1/2"	UNC Pan Head Screws
CSP76	1/4 x 2" UNC	Pan Head Screws
CSP77	3/16 x 1/2" UNC	Countersunk Screws
CSP78	3/16 x 1" UNC	Countersunk Screws
CSP79	3/16 x 1-1/4" UNC	Countersunk Screws
CSP80	3/16 x 1-1/2" UNC	Countersunk Screws
CSP81	3/16 x 2" UNC	Countersunk Screws
CSP82	1/4 x 1/2" UNC	Countersunk Screws
CSP83	1/4 x 3/4" UNC	Countersunk Screws
CSP84	1/4 x 1" UNC	Countersunk Screws
CSP85	1/4 x 1-1/4" UNC	Countersunk Screws
CSP86	1/4 x 1-1/2" UNC	Countersunk Screws
CSP87	1/4 x 2" UNC	Countersunk Screws
CSP88	1/4" UNC	Self-Locking Nuts
CSP89	5/16" UNC	Self-Locking Nuts
CSP90	3/8" UNC	Self-Locking Nuts
CSP91	3/16" UNC	Dome Nuts
CSP92	1/4" UNC	Dome Nuts
CSP93	8G x 1-1/4"	Self-Tapping Screws Pan Head
CSP94	10G x 1-1/4"	Self-Tapping Screws Pan Head
CSP95	10G x 1-1/2"	Self-Tapping Screws Pan Head
CSP96	8G x 1/2"	Self-Tapping Screws Countersunk
CSP97	8G x 1-1/4"	Self-Tapping Screws Countersunk
CSP98	10G x 1-1/4"	Self-Tapping Screws Countersunk
CSP99	10G x 1-1/2"	Self-Tapping Screws Countersunk
CSP100	3/16" UNC	Hex Nuts
CSP101	1/4" UNC	Hex Nuts
CSP102	5/16" UNC	Hex Nuts
CSP103	3/8" UNC	Hex Nuts
DN4	4mm	Dome Nuts
DN5	5mm	Dome Nuts
DN6	6mm	Dome Nuts
DN8	8mm	Dome Nuts
DN10	10mm	Dome Nuts
SLN4	4mm	Self-Locking Nuts
SLN5	5mm	Self-Locking Nuts
SLN6	6mm	Self-Locking Nuts
SLN8	8mm	Self-Locking Nuts
SLN10	10mm	Self-Locking Nuts

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

ACCESSORIES

DISPLAY AND MERCHANDISE STANDS

MERCHANDISER

CHC1

BRASS PACK HOSE CONNECTORS

Merchandise Contents (49 Types)

Brass Fittings

Includes:

- 2 x 49 types of Brass Packs
- Total of 98 Packs
- Merchandise Dimensions: 400mm x 1100mm (incl. header row)

This wall mounted Brass Fittings merchandiser includes a comprehensive range of Joiners, Barbs and Elbows. Attractively packaged in reusable blisters and barcoded for easy identification.

- Hose joiners
- 'T' Joiners
- Hose Barbs
- Elbows
- Reducing Bushes
- Sockets



MERCHANDISER CONTENTS

PART NO	SIZE	DESCRIPTION
HC1	3/16"	Brass Hose Joiners
HC2	1/4"	Brass Hose Joiners
HC3	5/16"	Brass Hose Joiners
HC4	3/8"	Brass Hose Joiners
HC5	1/2"	Brass Hose Joiners
HC6	5/8"	Brass Hose Joiners
HC7	3/4"	Brass Hose Joiners
HC8	3/16"	Brass 'T' Joiners
HC9	1/4"	Brass 'T' Joiners
HC10	5/16"	Brass 'T' Joiners
HC11	3/8"	Brass 'T' Fittings
HC12	1/2"	Brass 'T' Fittings
HC13	5/8"	Brass 'T' Fittings
HC14	3/16 x 1/8"	Male Hose Barbs
HC15	1/4 x 1/8"	Male Hose Barbs
HC16	5/16 x 1/8"	Male Hose Barbs
HC17	3/8 x 1/8"	Male Hose Barbs
HC18	3/16 x 1/4"	Male Hose Barbs
HC19	1/4 x 1/4"	Male Hose Barbs
HC20	5/16 x 1/4"	Male Hose Barbs
HC21	3/8 x 1/4"	Male Hose Barbs
HC22	1/2 x 1/4"	Male Hose Barbs
HC23	5/8 x 1/4"	Male Hose Barbs
HC24	5/16 x 3/8"	Male Hose Barbs
HC25	3/8 x 3/8"	Male Hose Barbs
HC26	1/2 x 3/8"	Male Hose Barbs
HC27	5/8 x 3/8"	Male Hose Barbs
HC28	3/8 x 1/2"	Male Hose Barbs
HC29	1/2 x 1/2"	Male Hose Barbs
HC30	5/8 x 1/2"	Male Hose Barbs
HC31	3/4 x 1/2"	Male Hose Barbs
HC32	3/4 x 3/4"	Male Hose Barbs
HC33	1/4 x 1/8"	90° Male Elbows
HC34	5/16 x 1/8"	90° Male Elbows
HC35	1/4 x 1/4"	90° Male Elbows
HC36	5/16 x 1/4"	90° Male Elbows
HC37	3/8 x 1/4"	90° Male Elbows
HC38	1/2 x 1/4"	90° Male Elbows
HC39	5/8 x 1/4"	90° Male Elbows
HC40	5/8 x 3/8"	90° Male Elbows
HC41	1/2 x 1/2"	90° Male Elbows
HC42	5/8 x 1/2"	90° Male Elbows
HC43	1/4 - 1/8"	Hex Reducing Bush
HC44	3/8 - 1/4"	Hex Reducing Bush
HC45	1/2 - 1/4"	Hex Reducing Bush
HC46	1/8"	Hex Sockets
HC47	1/4"	Hex Sockets
HC48	1/8"	Female Brass 'T'
HC49	1/4"	Brass Female 'T'

MERCHANDISER

CHC2

BRASS PACK HOSE CONNECTORS

Merchandiser Contents (49 Types)

Brass Fittings

Includes:

- 2 x 49 types of Brass Packs
- Total of 98 Packs
- Merchandiser Dimensions: 400mm x 1100mm (incl. header row)

This wall mountable selection of Brass Fittings complements the CHC1 and offers an extended range of Joiners, Barbs and Elbows. Packaged in reusable blisters and barcoded for easy identification.

- Hose Joiners
- 'T' Joiners
- Hose Barbs
- Elbows
- Reducing Bushes
- Sockets



MERCHANDISER CONTENTS

PART NO	SIZE	DESCRIPTION
HC50	1/8" BSP	Hex Taper Plugs
HC51	1/4" BSP	Hex TaperPlugs
HC52	3/8" BSP	Hex TaperPlugs
HC53	1/2" BSP	Hex TaperPlugs
HC54	1/8" BSP	Hex Nipples
HC55	1/4" BSP	Hex Nipples
HC56	3/8" BSP	Hex Nipples
HC57	1/2" BSP	Hex Nipples
HC58	1/8" BSP	Male and Female Elbows
HC59	1/4" BSP	Male and Female Elbows
HC60	3/8 x 1/8" BSP	Reducing Bush
HC61	1/2 x 1/8" BSP	Reducing Bush
HC62	1/2 x 3/8" BSP	Reducing Bush
HC63	3/8" BSP	Hex Sockets
HC64	1/2" BSP	Hex Sockets
HC65	1/4 x 1/8" BSP	Reducing Sockets
HC66	3/8 x 1/8" BSP	Reducing Sockets
HC67	3/8 x 1/4" BSP	Reducing Sockets
HC68	1/2 x 1/4" BSP	Reducing Sockets
HC69	1/2 x 3/8" BSP	Reducing Sockets
HC70	3/4 x 3/8" BSP	Reducing Bush
HC71	3/4 x 1/2" BSP	Reducing Bush
HC72	1/8" BSP	Female Elbows
HC73	1/4" BSP	Female Elbows
HC74	3/8" BSP	Female Elbows
HC75	1/2" BSP	Female Elbows
HC76	1/4 x 1/8" BSP	Male and Female Adaptors
HC77	1/4 x 1/4" BSP	Male and Female Adaptors
HC78	3/8 x 1/8" BSP	Male and Female Adaptors
HC79	3/8 x 1/4" BSP	Male and Female Adaptors
HC80	3/8 x 3/8" BSP	Male and Female Adaptors
HC81	1/2 x 1/4" BSP	Male and Female Adaptors
HC82	1/2 x 3/8" BSP	Male and Female Adaptors
HC83	1/4 x 1/8" BSP	Reducing Nipples
HC84	3/8 x 1/8" BSP	Reducing Nipples
HC85	3/8 x 1/4" BSP	Reducing Nipples
HC86	1/2 x 1/4" BSP	Reducing Nipples
HC87	1/2 x 3/8" BSP	Reducing Nipples
HC88	3/4 x 1/2" BSP	Reducing Nipples
HC89	3/16 x 1/8"	Female Tailpiece
HC90	1/4 x 1/8"	Female Tailpiece
HC91	5/16 x 1/8"	Female Tailpiece
HC92	3/16 x 1/4"	Female Tailpiece
HC93	1/4 x 1/4"	Female Tailpiece
HC94	5/16 x 1/4"	Female Tailpiece
HC95	3/8 x 1/4"	Female Tailpiece
HC96	1/2 x 1/4"	Female Tailpiece
HC97	3/8 x 3/8"	Female Tailpiece
HC98	1/2 x 3/8"	Female Tailpiece

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

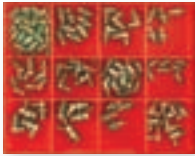




CLAMPS

ACCESSORIES

TECHNICAL


ACCESSORIES

KITS, HOSE AND OPERATOR PROTECTION

KITS	CA109	CA108	CA2070	CA2075	CA2415
					
CONTENTS	METRIC GREASE NIPPLES ASSORTMENT KIT	IMPERIAL GREASE NIPPLES MASTER KIT	BRASS HOSE FITTINGS	VACUUM HOSE AND TUBE CONNECTOR MASTER KIT	GREASE NIPPLES IMPERIAL AND METRIC MASTER KIT
Description	Straight and Angle Nipples. Metric, Fine and Coarse.	Straight and Angle Nipples. UNF, BSF, BSP and NPT Threads.	'T' Pieces, Joiners, Tails, Elbows and Adaptors.		Zinc Plated
Sizes	12 Sizes: 6mm to 10mm diameter	15 Sizes	53 Sizes	49 Sizes	20 Sizes
Pieces	105 Pieces	113 Pieces	106 Pieces	136 Pieces	410 Pieces

SAFETY SOCK	HSWG
	
SUITS HOSE OD	HOSE SAFETY WHIPSOCK 2-EYE GALVANISED STEEL

mm	inch	PART NO
30-40	1.18-1.57	HSWG-030040
40-50	1.57-1.97	HSWG-040050
50-60	1.97-2.36	HSWG-050060
60-70	2.36-2.76	HSWG-060070
70-85	2.76-3.35	HSWG-070085
85-100	3.35-3.94	HSWG-085100
100-120	3.94-4.72	HSWG-100120
120-150	4.72-5.91	HSWG-120150
150-190	5.91-7.48	HSWG-150190

WHIPCHECK			HWWG		
					
SIZE	SUITS HOSE ID	LENGTH	HOSE SAFETY WHIPCHECK WIRE GALVANISED STEEL		

	DN	inch	mm	inch	PART NO
SMALL	10-31	3/8-1.1/4	510	20.1	HWWG-S
MEDIUM	31-51	1.1/4-2	810	31.9	HWWG-M
LARGE	63-102	2.1/2-4	1200	47.2	HWWG-L



AN EFFICIENT, NATURAL
AND COST-EFFECTIVE
SPILL CONTROL SOLUTION
100% BIO DEGRADABLE



RYCO SAFETY GUIDE

SAFETY AND ENVIRONMENTAL COMPLIANCE

Spill response and the resulting waste to be disposed of are governed by regulations to protect people and the environment.

Compliance with these regulations is generally met through the use of commercial spill kits containing high performance absorbents, personal protective equipment, written response procedures/guidelines and accessories to ensure proper storage and disposal of spill wastes.

RYCO offers you a range of spill response products that comply with current legislation and Australian Standards, helping you:

- Meet your legal requirements: to ensure your Environmental "Due Diligence", as well as your OH&S "Duty of Care".
- Reduce your spill clean-up costs.
- Meet your environment management plan for waste reduction, increased use of recycled materials, and use of products with a low carbon footprint.

NOTE: Clay granular absorbents should NOT be disposed of in landfill.

SPILL KIT



CONTENTS	QUANTITY	PART NO
Complete Kit	1	RSKIT
Cotton Absorption Pads (200 gsm)*	10	RSK-CP45
Absorption Sock 1.2 metre†	1	RSK-AS120
Absorption Pillow 35 cm x 35 cm†	1	RSK-APIL
Disposable Waste Bag and Ties	2	RSK-DWB
Brush and Pan set	1	N/A
Nitrile Gloves	1	N/A
Instruction Card	1	N/A
Kit Carry Bag	1	N/A
RYCO Premium Sweep 20 L Pail	1	RSK-PS20P
REFILLS		
RYCO Premium Sweep 5 kg	1	RSK-PS5K
RYCO Granular Sweep 15 kg	1	RSK-15K

* RYCO Spill Kit Cotton Pads are 70% more absorbent than polyester pads.

† RYCO Spill Kit Absorption Socks and Pillows absorb 17 times their weight in oil.

HAZARDOUS AND NON-HAZARDOUS LIQUIDS

Fuels and Lubes	✓
Hydraulics Fluids	✓
Coola	✓
Solve (ketones, halocarbons, alcohols, etc.)	✓
Pai (oil based and water based)	✓
Drying Oils (linseed, pine oil, cod liver oil, etc.)	✓
Pesticides (solvent based and water based)	✓
Vegetables Oils or Animal Fats (liquid)	✓
Water-based compounds (ie: deterge, food, etc.)	✓
Pharmaceuticals/Drugs	✓

DANGEROUS GOODS AND LIQUIDS

Class 3 - Flammable Liquids	✓
Class 5 - Dangerous Goods	✗

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

ACCESSORIES

FUEL MANAGEMENT



IN PARTNERSHIP WITH THE PIONEERS IN UNIFIED FUEL MANAGEMENT

MINING - RAIL - TRANSPORT - MARINE - CONSTRUCTION



ACCREDITED NOZZLES REPAIRS

REPAIRABLE, NOT DISPOSABLE

The Banlaw nozzle is repairable, not disposable; they are robust and last considerably longer in the field and can reduce refuelling times. This means less cost in the long run as they are built to last. RYCO are part of Banlaw's network of accredited repairers, and are factory trained in "rebuilding" nozzles. With sustainability and quality in mind, Banlaw nozzles come with warranties for further reassurance.

REFUELLING

BNM800 NOZZLE



800 LPM MINING REFUELLING SYSTEM

Our nozzles perform in some of the harshest working conditions in the world. You can depend on Banlaw nozzles to do the job.

BNM800 Nozzle Technical Specifications

- Flow rate range for Diesel: 90-800 LPM / 24-211GPM
- Mass (with plug): 3.4kg (7.5lbs)
- Products Required
- Mining BNM800 Nozzle
- AUS25A Filter Vent with AUS25AA-1 coupling
- BRM23 Receiver

AUS45 NOZZLE



UNDERGROUND MINING REFUELLING SYSTEM

Underground automatic dry-break refuelling, safe for black coal underground use.

AUS45 Nozzle Technical Specs

- Flow rate range for Diesel: 40-300LPM / 24-211GPM
- Mass (with plug): 3.4kg (7.5lbs)

Products Required

- Underground AUS45 Nozzle
- AUS25E-C Vent with AUS25AA-1 Coupling
- AUS46 Receiver

BANLAW SECUREFILL™ DRY BREAK



Automatically identify and authorise all fuel dispensing.

Automatically and cost-effectively reconcile and secure fuel use for every mining vehicle in your fleet, using Banlaw's Auto ID Dry Break high flow nozzles. SecureFill can be retro-fitted to existing Banlaw FuelTrack™ depots. Use in conjunction with the SecureFill Splashfill system, Banlaw FuelTrack™ and Banlaw LevelTrack™ for an even better, fully integrated fuel management system.

ACCESSORIES

FUEL MANAGEMENT

REFUELLING

ULTRA-FINE FILTERED VENT



A complete vent assembly with all the key functions integrated into the one product.

The integrated Banlaw Ultra-Fine Filtered Vent greatly reduces the unwanted ingress of dust and other particles into the fuel tank via air flow, especially during fuel usage. With modern and up coming diesel engines calling for a low level of particulates in their fuel before performance and engine life is compromised, the Banlaw Ultra-Fine Filtered Vent has been designed fit-for-purpose. Built tough, it's virtually maintenance free and lasts for an entire service interval.

COUPLINGS

BANLAW LUBECENTRAL™ - FLUSH-FACED



BANLAW LUBECENTRAL™ FLUSH-FACED COUPLING RANGE

Eliminate contamination from site related dirt and cross contamination.

The Flush Face coupling is designed to enable the operator to wipe the coupling face clean before engaging in the transfer hose, minimising the extent of contamination entering the fluid stream during servicing and reducing wear on mating seals and other components within the fittings. With a range of ten unique and colour coded couplings, cross contamination is eliminated making the operators job easy and safe. Available in NPT thread sizes to suit both current industry specifications and larger configurations to maximise the flow rate capability.

BANLAW LUBECENTRAL™ - CLASSIC RANGE



BANLAW LUBECENTRAL™ CLASSIC RANGE OF OIL COUPLINGS

Are your Oil and Coolant service times slow and forcing dirt into your valuable machinery fluids?

Banlaw's Classic Range of Oil couplings are purpose-designed to make oil transfer an efficient and safe operation. Where the old industry standard oil couplings are used, Banlaw's standard couplings are the most durable solution. The standard range caters for the fill and evacuation of crankcase, transmission, hydraulic, coolant oils and fluids.

GREASE AND FLUID COUPLINGS



FLUSH-FACE "CONNECT UNDER PRESSURE" GREASE AND FLUID COUPLINGS

Transfer grease and other fluids safely, quickly and cleanly.

The Flush-Face "Connect Under Pressure" couplings are primarily designed for grease transfer but also transfer a wide variety of non-flammable fluids safely and reliably. The couplings may be connected with residual fluid pressure within the nozzle, making service times safer, cleaner and more efficient. The Australian-designed and manufactured couplings are built to last from steel to withstand your tough operating conditions and save you money in the long run.

VALVES AND ACCESSORIES

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

REFUELLING SYSTEM ACCESSORIES



High quality accessories to ensure you get the best from your refuelling system.

Banlaw's receivers, swivels, valves and nozzle anchors are made from the highest quality materials like stainless steel, zinc plated steel and anodized aluminium to ensure they withstand harsh everyday treatment.

Caps provide protection when the nozzle and receiver are not connected, reducing contamination. Made from steel or aluminium to prolong the life of your equipment by only using Banlaw accessories.

CHECK VALVE FUEL RECEIVER

STANDARD MODEL



FUELTRACK MODEL

The world's toughest and safest fuel security system

Banlaw's Check Valve Receiver cannot be overridden, eliminating fuel theft via the receiver. Intelligent design of the flow path generates low pressure. This prevents the increased risk of premature shut-off of pressure sensitive refuelling nozzles. Versatile design allows installation either directly into the fuel tank or the pipework (min 2"). Manufactured to exacting standards using high quality materials to withstand harsh operating environments. The receiver body can be replaced without the need to drain the tank.

BREAKAWAY VALVE



AN ESSENTIAL SAFETY COMPONENT OF THE DRIVE-AWAY PROTECTION SOLUTION

The Banlaw break-away valve is part of the drive-away protection solution, designed to provide a safe means of protecting diesel dispensing (refuelling) system components from damage and preventing spillage of fuel. The three-shear studs connecting each half of the valve are designed to fracture at a certain stress, allowing the valve assembly to separate into 2 separate dry-break components. These dry-break components prevent fuel spillage from either the delivery hose attached to the offending vehicle or the remainder of the pipework downstream of the pump.




PART NO	DESCRIPTION
AUS4W-50	2" Breakaway Valve with 2" x 2" BSP (Male) threads
AUS4W-50N	2" NPT Breakaway Valve
AUS4W-75	3" Breakaway Valve with 2" x 2" BSP (Male) threads
AUS4W-75N	3" NPT Breakaway Valve
AUS4W-KIT	Breakaway Valve repair kit to suit AUS4W-50
AUS4WKIT-75	Breakaway Valve repair kit to suit AUS4W-75

ACCESSORIES




OILS, LUBRICANTS AND SPECIALTY PRODUCTS



**RYCO OILS,
GREASES
AND
SPECIALTY
PRODUCTS**

HYDRAULICS	RHOIL32	RHOIL46	RHOIL68
HYDRAULIC OILS 32, 46, 68			
SIZE	HYDRAULIC OIL	HYDRAULIC OIL	HYDRAULIC OIL
Litres	PART NO	PART NO	PART NO
5	RHOIL32-5L	RHOIL46-5L	RHOIL68-5L
20	RHOIL32-20L	RHOIL46-20L	RHOIL68-20L
200	RHOIL32-200L	RHOIL46-200L	RHOIL68-200L
1000	RHOIL32-1000L	RHOIL46-1000L	RHOIL68-1000L

RYCO Hydraulic Oils 32, 46 and 68 meet or exceed the requirements of many international specifications for industrial and mobile hydraulic systems including: Vickers I-286-S, M-2950-S; VDMA 24318; Hagglunds-Denison HF-0, HF-1, HF-2; SS 155434; Racine, variable volume vane pumps; ISO 6743/4 (HM); Cincinnati Machine P-68 (ISO 32), P-69 (ISO 68), P-70 (ISO 46); SEB 181 222; DIN 51524, Part 2; AFNOR NFE 48-603 (HM); US Steel 136, 127; AFNOR NFE 48-691 (wet); Commercial Hydraulics.

HVI HYDRAULICS	RHVI32	RHVI46	RHVI68
HYDRAULIC OILS HVI (HT) 32, 46, 68			
SIZE	HVI HYDRAULIC OIL	HVI HYDRAULIC OIL	HVI HYDRAULIC OIL
Litres	PART NO	PART NO	PART NO
20	RHVI32-20L	RHVI46-20L	RHVI68-20L
200	RHVI32-200L	RHVI46-200L	RHVI68-200L
1000	RHVI32-1000L	RHVI46-1000L	RHVI68-1000L

RYCO Hydraulic Oils HVI (HT) 32, 46 and 68 meet or exceed the requirements of many international specifications for industrial and mobile hydraulic systems: Vickers I-286-S, M-2950-S; VDMA 24318; Hagglunds-Denison HF-0, HF-1, HF-2; SS 155434; Racine, variable volume vane pumps; ISO 6743/4 (HM, HV); Cincinnati Machine P-68 (ISO 32), P-69 (ISO 68), P-70 (ISO 46); SEB 181 222; DIN 51524, Parts 2 and 3; AFNOR NFE 48-603 (HM, HV); US Steel 136, 127; AFNOR NFE 48-691 (wet); Commercial Hydraulics.

ZINC FREE HYDRAULICS	RHZF32	RHZF46	RHZF68
ZINC FREE HYDRAULIC OILS 32, 46, 68			
SIZE	ZINC FREE HYDRAULIC OIL	ZINC FREE HYDRAULIC OIL	ZINC FREE HYDRAULIC OIL

Litres	PART NO	PART NO	PART NO
20	RHZF32-20L	RHZF46-20L	RHZF68-20L
200	RHZF32-200L	RHZF46-200L	RHZF68-200L
1000	RHZF32-1000L	RHZF46-1000L	RHZF68-1000L

RYCO Zinc Free Hydraulic Oils 32, 46 and 68 meet or exceed the requirements of many international specifications for industrial and mobile hydraulic and compressor systems including: DIN 51524, parts 1, 2 (HL, HLP); Cincinnati Machine P-68 (ISO 32), P-69 (ISO 68), P-70 (ISO 46); SEB 181 222; Denison HF-0, HF-1, HF-2; VDMA 24318; Parker Hannifin France HF-0; ISO 6743/4 (HM); AFNOR NFE 48-603 (HM); US Steel 126, 127 and 136; Sperry Vickers I-286-S, M-2950-S; SS 155434; DIN 51506 (VBL, VCL, VDL); ISO/DP 6521 (DAA, DAB, DAH, DAG); ISO 11158 (HM).

FOOD GRADE HYDRAULICS	RHFG32	RHFG46	RHFG68
FOOD GRADE HYDRAULIC OILS 32, 46, 68			
SIZE	ZINC FREE HYDRAULIC OIL	ZINC FREE HYDRAULIC OIL	ZINC FREE HYDRAULIC OIL

Litres	PART NO	PART NO	PART NO
20	RHFG32-20L	RHFG46-20L	RHFG68-20L
200	RHFG32-200L	RHFG46-200L	RHFG68-200L
1000	RHFG32-1000L	RHFG46-1000L	RHFG68-1000L

S-TYPE SYNTHETIC BIO HYDRAULICS	RHSB32	RHSB46	RHSB68
SYNTHETIC HYDRAULIC OILS S 32, 46, 68			
SIZE	S-TYPE SYNTHETIC HYDRAULIC OIL	S-TYPE SYNTHETIC HYDRAULIC OIL	S-TYPE SYNTHETIC HYDRAULIC OIL




Litres	PART NO	PART NO	PART NO
20	RHSB32-20L	RHSB46-20L	RHSB68-20L
200	RHSB32-200L	RHSB46-200L	RHSB68-200L
1000	RHSB32-1000L	RHSB46-1000L	RHSB68-1000L




Refer to www.RYCO.com.au for Material Safety Data Sheet (MSDS).



- INTRODUCTION
- HOSE
- COUPLINGS
- ADAPTORS
- CLAMPS
- ACCESSORIES
- TECHNICAL

ACCESSORIES

OILS, LUBRICANTS AND SPECIALTY PRODUCTS

V-TYPE BIO HYDRAULICS	RHBV32	RHBV46	RHBV68
HYDRAULIC OILS BIO V 32, 46, 68			
SIZE	V-TYPE HYDRAULIC OIL	V-TYPE HYDRAULIC OIL	V-TYPE HYDRAULIC OIL
Litres	PART NO	PART NO	PART NO
20	RHBV32-20L	RHBV46-20L	RHBV68-20L
200	RHBV32-200L	RHBV46-200L	RHBV68-200L
1000	RHBV32-1000L	RHBV46-1000L	RHBV68-1000L

FIRE RESISTANT HYDRAULICS	RHFR46	RHFR68	RHFR720
FIRE RESISTANT HYDRAULIC FLUID Q888-46, Q888-68 QA720			
SIZE	FIRE RESISTANT HYDRAULIC FLUID	FIRE RESISTANT HYDRAULIC FLUID	FIRE RESISTANT HYDRAULIC FLUID
Litres	PART NO	PART NO	PART NO
20	RHFR46-20L	RHFR68-20L	RHFR720-20L
200	RHFR46-200L	RHFR68-200L	RHFR720-200L
1000	RHFR46-1000L	RHFR68-1000L	RHFR720-1000L

DIESEL OIL	RDCJ4	RDCI4
DIESEL EXTREME CJ-4 15W/40 DIESEL CI-4 15W/40		
SIZE	DIESEL EXTREME CJ-4 15W/40	DIESEL CI-4 15W/40
Litres	PART NO	PART NO
20	RDCJ4-20L	RDCI4-20L
200	RDCJ4-200L	RDCI4-200L
1000	RDCJ4-1000L	RDCI4-1000L

Refer to www.RYCO.com.au for Material Safety Data Sheet (MSDS).

GREASES		RGLCM	RGLC
GREASE LITH COMPLEX MOLY LITH COMPLEX			
SIZE	GREASE LITH COMPLEX MOLY	GREASE LITH COMPLEX	
Kilograms	PART NO	PART NO	
0.45	RGLCM-450G	RGLC-450G	
20	RGLCM-20KG	RGLC-20KG	

SPECIALTY	RWD	RTW	RHDD	RSHC
WASHES AND DEGREASERS				
SIZE	WATER BASED DEGREASER	TRUCK WASH	HEAVY DUTY DEGREASER	SUPER HAND CLEANER
Litres	PART NO	PART NO	PART NO	PART NO
5	RWD-5L	RTW-5L	RHDD-5L	RSHC-5L
20	RWD-20L	RTW-20L	RHDD-20L	RSHC-20L
200	RWD-200L	RTW-200L	RHDD-200L	RSHC-200L

AEROSOLS	RMDEG	RBCLEAN	REDEG
CLEANERS AND DEGREASERS			
SIZE	MECHANICS DEGREASER	BRAKE AND PARTS CLEANER	EVERYDAY DEGREASER
Grams	PART NO	PART NO	PART NO
400	RMDEG-400G	RBCLEAN-400G	REDEG-400G

AEROSOLS	RCCLEAN	RDLUBE	RTSHINE
CLEANERS, LUBRICANTS AND SHINES			
SIZE	CARBY CLEANER	DE-RUST LUBRICANT	TYRE SHINE
Grams	PART NO	PART NO	PART NO
350			RTSHINE-350G
400	RCCLEAN-400G	RDLUBE-400G	

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

ACCESSORIES

OILS, LUBRICANTS AND SPECIALTY PRODUCTS

GREASING

AM600A

450G LEVER ACTION GREASE GUN



- Develops grease pressures of up to 12,000 psi (828 bar).
- Delivers up to 1.6g of grease per stroke.
- Plastic wing nut enables the rigid extension to be locked at the required angle.
- Coarse thread on barrel assembly eliminates the possibility of cross threading during cartridge change over.
- Unique Twin Lock System seals the piston and eliminates the possibility of dummy lubrication.
- Patented Ever-Flow System enables the gun to be used with thick tacky greases even in the coldest conditions.
- Large diameter piston with a long lever travel facilitates high volume greasing.
- High volume, high pressure greasing guaranteed.



GREASING

AM660AN

450G TRIGGER ACTION GREASE GUN



- Grease pressures of up to 8,500 psi (586 bar).
- Delivers up to 1.1g of grease per stroke.
- Coarse thread on barrel assembly eliminates cross-threading during cartridge changeover.
- Twin Lock System seals the piston and eliminates the possibility of dummy lubrication.
- Patented Ever-Flow System enables the gun to be used with thick tacky greases even in the coldest conditions.
- Light weight, durable and compact aluminium die cast head assembly.
- High volume or High Pressure option facilitates fast and efficient greasing.
- 4-jaw coupler and flexible 30cm long extension.
- The ultimate greasing tool.



GREASING

AM670AN3

450G18V LITHIUM-ION CORDLESS GREASE GUN



- Grease pressures of up to 8,000 psi (552 bar).
- Delivery rates of up to 170g/min.
- Second battery included.
- One-hour fast recharge.
- Remaining charge and fault indicator.
- Two Lithium-ion batteries supplied as standard.
- Up to 24 x 450g cartridges per charge.
- Ergonomic and light weight at just 3.5kg.
- The key to fast and efficient plant and machinery greasing.



GREASING


AMG10040N

EL SERIES 450G 18V LITHIUM-ION CORDLESS GREASE GUN



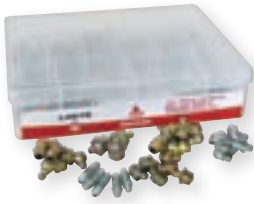
- Generates grease pressures up to 10,000 psi (690 bar).
- Capable of delivering up to 80g/min.
- 25 minutes continuous working time.
- Supplied with two batteries, 3000mAh and 1500mAh.
- Recharge time of 75 minutes (1500mAh battery).
- Up to 12 x 450g cartridges.
- Spare battery, recharger, 106cm long grease gun flex and plastic molded carry case supplied standard.
- Dispenses grease from up to 12 x 450g cartridges before changing over or recharging of the 3000 mAh battery is required.
- The key to fast and efficient plant and machinery greasing.



GREASING	AM424170	
<p>20KG GREASE KIT</p> 	<ul style="list-style-type: none"> • Integral filter protects pump from foreign particle contamination. • Delivery rates of up to 0.9kg/min. • 55:1 ratio air motor develops grease pressures of up to 7,950 psi (548 bar). • Will handle high-density, tacky greases up to NLGI2. • Cast alloy dual cylinder air motor won't dent or distort prematurely. • Single toggle air motor operation ensures a long service life. 	


INTRODUCTION

HOSE


GREASING	AML4675	
<p>101 INDUSTRIAL GREASE NIPPLE ASSORTMENT KIT</p> 	<p>Grease Nipple Assortment Kits</p> <ul style="list-style-type: none"> • Your most popular grease nipples in a convenient compartmentalised refillable carry kit. • All grease nipples included in the kit are case hardened, fully chromated, zinc passivated, batch tested to 8,000 psi (552 bar) and conform to international standards including BSS 1486, DIN 71412, SAE J534 and JIS B1575. • Patented Kinglok® method of construction provides a very substantial mechanical joint with an entirely leak proof fit. • Manufactured in the UK with quality, performance and longevity in mind. 	

COUPLINGS

ADAPTORS

GREASING	AMB1-120-1-24 BEKAONE	
	<p>The first refillable, reusable, disposable, sealed-for-life, electro-mechanical single point lubricator</p> <ul style="list-style-type: none"> • Refillable with the grease of your choice, allows multiple different greases on different applications. • 720gm (6 x 120gm) total capacity before replacement - battery life is 6 refills or 24 months. • No grease cartridges/bladders or batteries required, eliminating consumable costs. • Class leading 10 bar maximum pressure allows for remote mounting. • Discharge rates adjustable from 1, 3, 6, 12 months. • Red LED indication for blockage alarm. • Green LED indication for discharge rates and battery status. 	

CLAMPS

GREASING	PULSARLUBE AMM SERIES	
	<p>The innovative Pulsarlube AMM is designed to ensure reliable lubrication and at the same time cut lubrication costs with an advanced computerised control system. It consists of a vertical feed pump, motor/gear set and microprocessor allowing operating pressure of 30kgf/cm² (425 psi). It is ideal for hard to reach/hazardous locations via remote installation capability.</p> <ul style="list-style-type: none"> • AMM60/Main Pulsarlube AMM 60ml Main Unit Only. • AMM125/Main Pulsarlube AMM 125ml Main Unit Only. • AMM250/Main Pulsarlube AMM 250cc Main Unit Only. • AMM500/Main Pulsarlube AMM 500ml Main Unit Only. 	

ACCESSORIES

TECHNICAL

ACCESSORIES

OILS, LUBRICANTS AND SPECIALTY PRODUCTS

GREASING

AMBEKAMAX-20

20 AUTOMATIC GREASE LUBRICATION SYSTEM



- Complete kit-to-service 20 grease points automatically.
- Includes a BekaMax 24V DC pump station with onboard timer and 4kg grease reservoir, 70m of grease filled hose, reusable hose ends, compression fittings and adaptors, nuts and bolts, cable ties and protective hose wrapping.
- System suitable for use with NLGI2 greases.
- Increases plant and machine profitability by minimising service downtime.
- Reduces maintenance costs due to manual under or over greasing.
- **Note:** assistance will be required to design a system to suit your specific application.



GREASING

AMBEKAEP-1

PUMP BUILT INTO RUGGED FABRICATED RESERVOIR - TRITON III



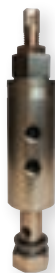
- Fabricated tank work with bottom mounted AMEP-1 pump.
- Flow rate from 1.8cc to 7.65cc/min.
- Operating pressure up to 240 bar.
- No overflow – environmentally friendly.
- Standard auto fill shut off value.
- With breather and relief valve fitted to the top of the reservoir.
- With high performance fill point filter.
- Low level sensor.
- With choice of troniX1 or EP-tronic controller or cab mounted controller.



GREASING

AMBL-I

INJECTORS



Beka AMBL-I Grease injector is fully compatible with similar single line injectors and lubrication systems in the mining and construction industry.

- Volume 0.2 to 1.2cc.
- Operating pressure: max. 240 bar.
- Venting pressure min. < 50 bar.
- Metering lubricant grease up to NLGI2.



GREASING



AM220ACB

400G TRIGGER ACTION GREASE GUN - CLEAR BARREL





- Develops grease pressures up to 8,500 psi (587 bar).
- 1.1g delivery per stroke on the high volume setting.
- 0.70g delivery per stroke on the high pressure setting.
- 500g capacity when using bulk grease.
- Handles up to NLGI2 grease.
- 3-way loading.
- 300mm long grease gun flex.
- Heavy duty 4-jaw coupler.
- Coarse thread on barrel eliminates the chance of cross threading.
- Suits a 400g cartridge or bulk grease.



FUEL TRANSFER	AM501A
<p>ROTARY DRUM PUMP</p> 	<ul style="list-style-type: none"> • Zinc alloy impellers make the pump suitable for the transfer of diesel, petrol, kerosene, unleaded petrol and low viscosity oils. • Delivery rates of 18L/min or 0.26L per rotation. • Cast alloy body construction ensures a long working life and smooth operation. • 4 chamber pump body primes quickly and easily. • Can syphon and transfer fuels and lubes in reverse. • Includes 2.2m of antistatic hose, bung adaptor, rubber gasket, four chamber rotor assembly, spout and spout holster. <div style="text-align: right;">  </div>



INTRODUCTION

HOSE



FUEL TRANSFER	AM5060AN
<p>HI-SPEED REFUELLING DRUM PUMP</p> 	<ul style="list-style-type: none"> • Low torque, high volume pump is easy to use and delivers up to 110L/min. • Facilitates best in class delivery rates of 1.1L per rotation. • Lockable handle minimises the possibility of unauthorised fuel transfer. • New PPR covered handle grip reduces operator fatigue during high volume fuel transfer. • New and improved rubber seal above the bung adaptor reduces fuel contamination. • Supplied complete with 2.6m of UV and fuel resistant hose, spout, in built spout holster, 3-piece downtube and new heavy duty bung adaptor. • Upgrade now and reduce the time and effort required for fuel transfer. <div style="text-align: right;">  </div>

COUPLINGS

ADAPTORS

FUEL TRANSFER	AM52000
<p>12V DIESEL REFUELLING TANK KIT</p> 	<ul style="list-style-type: none"> • Capable of flow rates of up to 50L/min. • Includes 4m of anti-static fuel delivery hose, 2m of battery cable, a stainless steel and brass fuel filter and a manual nozzle. • Maximum head capacity of 15m. • Self priming rotary vane pump includes a built-in bypass. • Duty cycle of 30 minutes on, 30 minutes off. • Suction capacity of up to 2m. • AM52001 - as above but 24V. <div style="text-align: right;">  </div>

CLAMPS

FUEL TRANSFER	AM60068PA
<p>600L DIESEL REFUELLING STORAGE AND DISPENSING KIT</p> 	<ul style="list-style-type: none"> • Dispensing kit consists of a self priming vane pump manufactured in Italy, anti-static fuel delivery hose, 2m battery cables and automatic nozzle. • Pump flow rates of up to 68L/min. • 600L capacity polyethylene tank weighing just 32kg cannot dent, scratch or corrode. • Tank baffles aid vehicle stability. • Pallet lift points and recesses for tie down straps on the tank aids handling and installation. • Tank dimensions of: 800mm (W) x 1630mm (D) x 785mm (H). • AM60080P also available with manual nozzle, 80L/min. <div style="text-align: right;">  </div>

ACCESSORIES

TECHNICAL

ACCESSORIES

OILS, LUBRICANTS AND SPECIALTY PRODUCTS

FUEL TRANSFER

AML40040PA

400L LOCKABLE DIESEL REFUELLING STORAGE AND DISPENSING KIT



- 400L storage tank capacity.
- Heavy duty, robustly constructed polyethylene tank.
- Recessed pump improves overall tank strength.
- Built in nozzle holster.
- Lockable lid aids diesel fuel security and protects dispensing kit components.
- 4-point security locking system.
- Tank baffles aid vehicle stability.
- 12V diesel fuel pump capable of flow rates of up to 50L/min.
- 4 metres of anti-static fuel delivery hose, 2 metre battery cables with clamps and auto shut off fuel nozzle.
- Metering option available
- Dimensions: 1165mm (W) x 1165mm (D) x 566mm (H).
- Also available: AML40040PAM as above but with an electronic fuel meter.



FUEL TRANSFER

AM51008

MECHANICAL DIESEL METER



- Suitable for the metering of diesel.
- Accurate between flow rates of 20L/min to 120L/min.
- Mechanical gear meter accurate to $\pm 1.0\%$.
- Maximum working pressure of 145 psi (10 bar).
- 1" BSP(f) inlet and outlet ports.
- Batch total of 999L displayed with easy to read 18mm high digits.
- 6-digit cumulative total display.
- Suitable for gravity feed or pump applications.
- 6-digit cumulative total display.
- Repeatability of $\pm 0.3\%$.

OIL TRANSFER

AM8828N2

20L GEAR OIL DRUM PUMP



- Capable of delivering up to 110mL on the downstroke.
- Downtube extension and extra Reike adaptor make the pump suitable for use with a variety of 20L drums available on the market.
- Ideal pump for the transfer of engine, gear, and differential and hydraulic oils in busy vehicle servicing workshops.
- Drainback nozzle holster ensures that excess oil ends up back in the drum.
- Incorporates a filter in the drain back holster to protect against foreign particle contamination.
- UV stabilised long life hose ensures a long service life.



OIL TRANSFER

AM10028

HEAVY DUTY 20L GEAR OIL DRUM PUMP



- Heavy duty fully serviceable drum pump delivers 170mL on the downstroke.
- Non-drip nozzle and drain back nozzle holster ensure a clean, safe workshop.
- Height adjustable bung adaptor and two extra adaptors make the pump suitable for use with 20L drums from Australia, Singapore, the USA and Europe.
- 1.8m long life rubber hose assembly ensures a long service life.
- Ideal for the transfer and top ups of engine, hydraulic, gear, and differential and synthetic oils where vehicle throughput and owner expectations are high.
- Also suitable for underground coal mine use.



OIL TRANSFER **AM454110N**

OIL TRANSFER KIT WITH METER



- 3:1 ratio pump, 3m x 1/2" ID hydraulic hose and electronic resettable meter.
- Transfer rates of up to 12L/min.
- 3/4" BSP(f) material outlet.
- 1/4" BSP(f) air inlet.
- Suitable for engine, gear, and differential and hydraulic oils.
- Suits 60L or 205L drums.
- Lubricant transfer and metering made easy.
- AM454111N as above but with on/off control valve.



INTRODUCTION

HOSE

OIL TRANSFER **AM378100**

MOBILE OIL TRANSFER KIT



- Supplied with 3:1 air operated oil pump, 8m hose reel, electronic meter and heavy duty drum trolley.
- Quick, efficient and effortless oil transfer in car, light commercial vehicle and truck workshops
- Adjustable flow rates up to 15L/min.
- Electronic oil meter accurate to ± 0.5 .
- Electronic oil meter powered by standard AAA batteries.



COUPLINGS

ADAPTORS

OIL TRANSFER **AM334900**

240V OIL TRANSFER PUMP



- AC vane type pump with sintered steel rotor and resin vanes.
- Suitable for the transfer of engine, gear, and differential and hydraulic oils up to 500cSt.
- Flow rates up to 25 L/min.
- 3/4" BSP(f) inlet and outlet.
- Continuously rated with pressures up to 85 psi (6 bar).



CLAMPS

HOSE STORAGE **AMSA300N**

AIR HOSE REEL



- Impact resistant UV stabilised covers.
- Automatic and positive latching mechanism.
- Can be wall, ceiling or floor mounted.
- New hybrid polymer hose is more flexible, easier to handle and longer lasting.
- Adjustable spring tension.
- Working pressure of 300 psi (20 bar).
- 3/8" BSP(f) inlet and outlet.
- AMSA300N - 18m x 10mm ID hose and 0.9m lead in hose, 3/8" BSP(f) inlet and outlet.



ACCESSORIES

TECHNICAL

ACCESSORIES

OILS, LUBRICANTS AND SPECIALTY PRODUCTS

HOSE STORAGE

AMSA400N

AIR HOSE REEL



- Impact resistant UV stabilised covers.
- Automatic and positive latching mechanism.
- Can be wall, ceiling or floor mounted.
- New hybrid polymer hose is more flexible, easier to handle and longer lasting.
- Adjustable spring tension.
- Working pressure of 300 psi (20 bar).
- High flow swivel and fluid path.
- Detachable steel mounting bracket enables 180° hose reel rotation.
- AMSA400N - 15m x 12mm ID hose and 0.9m lead in hose, 1/2" BSP(f) inlet and outlet.



HOSE STORAGE

AM8080-G

ALEMITE LARGE CAPACITY HEAVY DUTY OIL HOSE REEL



- Sealed spring cassette.
- Suitable for use with air and water.
- Sealed and plated bearings.
- 1,000 psi (60 bar) hose pressure rating.
- Narrow width.
- Easy and quick mounting.
- Supplied complete with 15m x 24mm ID hose.
- Lifetime warranty on the hose guide assembly and latch pawl spring.
- Also available 8080-F (Fuel), 8080- E (Fuel), 8080-C (Grease).



ADBLUE TRANSFER

AM201220

240V IBC ADBLUE® DISPENSING KIT



- Heavy duty self-priming membrane pump and manual nozzle.
- 6m delivery hose.
- Includes a 1.5m suction hose pump to IBC mounting adaptor.
- Self contained on a stainless steel mounting bracket with nozzle holster the kit is easily moved from one IBC to another.
- Flow rates of up to 32L/min.
- Pump duty cycle of 20 minutes on/off.
- AM201210 Pro version with automatic nozzle and digital meter also available.
- IBC not included.



WATER TRANSFER

AMDW20500KS

DIESEL DRIVEN 2" WATER TRANSFER PUMP

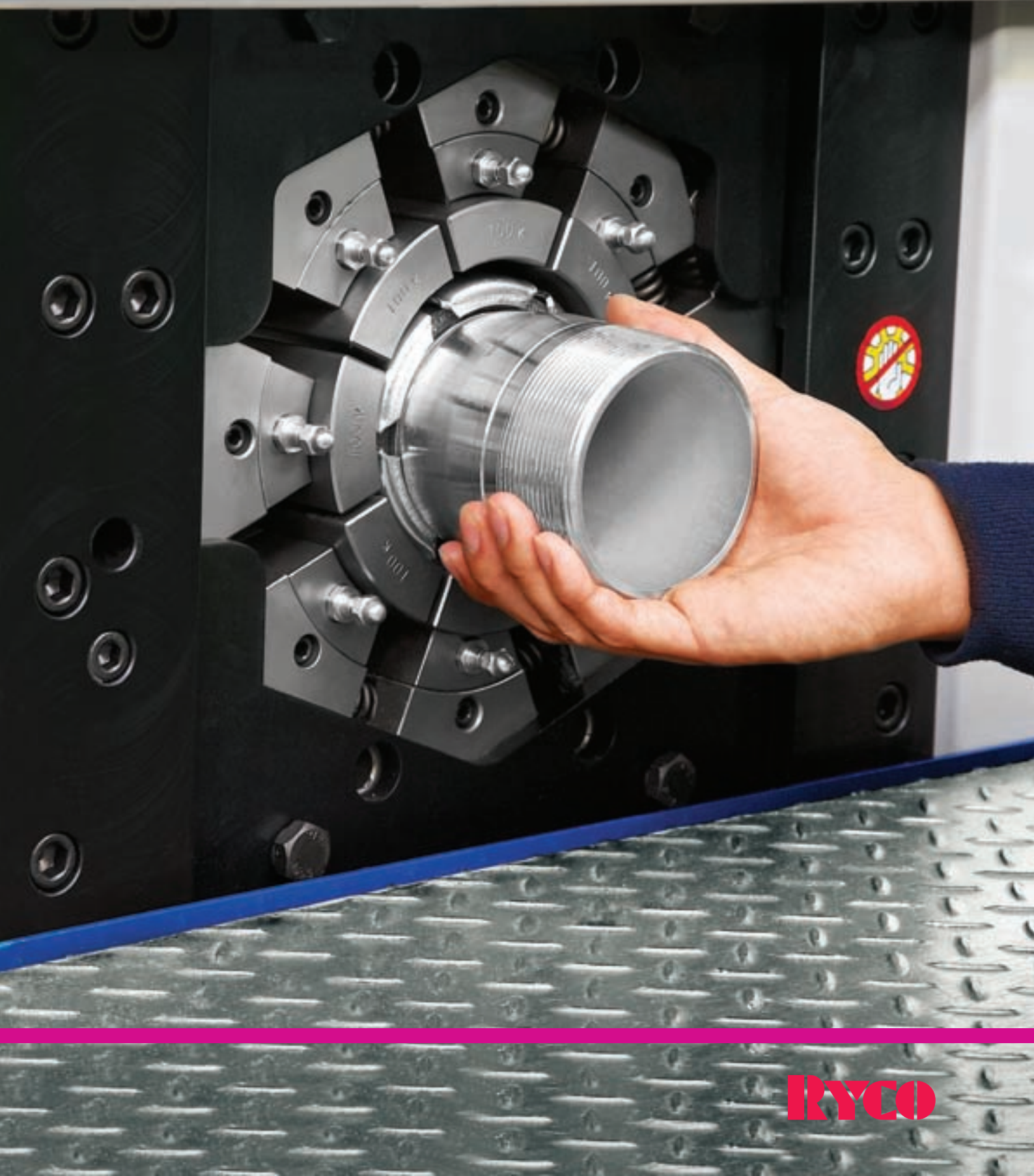


- Flow rates of up to 500L/min.
- 3.8HP air cooled 4-stroke petrol engine.
- 2" (50mm) inlet and outlet ports.
- Maximum suction head of 7m.
- Maximum lift head of 22m.
- Fuel tank capacity of 2.5L.
- Run time of 2.0 hours at ¾ load.
- Key start operation.



RYCO
INDUSTRIAL
HOSE & FITTINGS

TECHNICAL



RYCO

PAGE NO	SECTION
227-231	INSTALLATION AND MAINTENANCE OF HOSE ASSEMBLIES
227	Selection, Installation And Maintenance Of Hose And Hose Assemblies
229	Safety Guide
232-233	STAMPED
234	GUIDES FOR ALL HOSE USERS
234	Hose Assemblies
234	Air Hose Couplings
234	Steam And Gas
234	Fluid Hose Couplings
234	All Hose Assemblies
235-237	RYCO HOSE ASSEMBLY PRESSURE RECOMMENDATION CHART
238	HOSE ASSEMBLY SAFETY
238	Safety And Technical
238	For All Hose Assemblies In Use
239	WATER AND AIR FLOW RATES
239	Pressure Drop In Rubber Hoses - Water
239	Pressure Drop (kPa per 100 metres) Water @ 20°C Through Hose
239	Flow Rate Of Water Through Hose
240	Pressure Drop In Rubber Hoses - Air
240	Frictional Pressure Loss
241	HOSE SELECTION NOMOGRAPH
242-243	STEAM HOSE SAFETY
242	Recommendations For Use Of Steam Hoses
242	Construction Of Steam Hoses
242	General Remarks About Steam
243	General Recommendations On Steam Hoses In Practice
244	CAMLOCK SPECIFICATIONS
244	Camlock Pressure Rating
245	CLAW COUPLING SPECIFICATIONS
246-248	THREAD IDENTIFICATION
246	Industrial Pipe Threading Information
247	Industrial Pipe Thread Sealing Information
248	Nominal Dimensions Of Standard Pipe Threads
248	Normal Engagement Length Of NPT Thread In Inches ("A") *
249-250	FLANGE MEASUREMENT GUIDE
249	ANSI B16.5 Flanges
250	Flange Bolt Tightening Sequence
250	Flange Diagrams
251-253	GENERAL PROPERTIES OF RUBBER AND THERMOPLASTICS
251	Properties Of Rubber/PVC/Thermoplastic Hose
252	Rubbers Used In Hose
253	Plastics Used In Hose
253	Rubber Hose Manufacturing Tolerances
254-264	CHEMICAL COMPATIBILITY CHART
254-261	Chemical Resistance Chart For Rubber Hose
262-264	Chemical Resistance Chart For PVC Hose
265	GENERAL TEMPERATURE CONVERSION CHART
265	Temperature Conversion
266	TEMPERATURE LIMITS FOR STEAM
267	CONVERSION TABLES
267	Vacuum Conversion Table
267	Feet Of Water To Inches Of Mercury Conversion Table
267	Pressure Conversions
267	Measurement Information
268-269	RYCO TERMS OF SALE ("RTS")
270-272	GLOSSARY

SELECTION, INSTALLATION AND MAINTENANCE OF HOSE AND HOSE ASSEMBLIES

SCOPE:

1. Many factors affect the selection, making, installation and maintenance of hose assemblies. This manual, RYCO, and The Society of Automotive Engineers recommended practice SAE J1273, have useful information about selecting, making, installing and servicing hydraulic hose assemblies. For further information, please contact your local RYCO representative.

RYCO recommends hose and coupling combinations in the catalogue only after completing extensive testing. Evaluation of a hose and coupling combination requires considerable impulse testing and cannot be determined by a simple burst or pressure hold test. RYCO disclaims all liability for any hose assembly made in violation of RYCO recommendations.

The consumer's exclusive remedy with respect to any claim shall be a refund of the purchase price or replacement of the product at the option of RYCO. In no event shall RYCO be liable for any incidental or consequential damages whatsoever.

WARNING: IMPROPER SELECTION, INSTALLATION, OR MAINTENANCE MAY RESULT IN PREMATURE FAILURES, BODILY INJURY, AND/OR PROPERTY DAMAGE.

SELECTION:

2. The following is a list of factors which must be considered before final hose selection can be made:

- 2.1 **Internal Pressure** – After determining the system pressure, hose selection must be made so that the recommended maximum operating pressure is equal to or greater than the system pressure. Surge pressures higher than the maximum operating pressure will shorten hose life and must be taken into account by the hydraulic engineer. Hose fitting rated pressures should also be considered, as the maximum working pressure is based on the whole hose assembly and not just the hose alone.
- 2.2 **External Pressure** – In certain applications the external environmental pressures may exceed the fluid pressure inside the hose, therefore these factors need to be considered.
- 2.3 **Suction** – Hoses used for suction applications must be selected to ensure that the hose will withstand the vacuum and pressure of the system.
- 2.4 **Temperature** – Care must be taken to ensure that fluid and ambient temperatures, both static and transient, do not exceed the limitations of the hose. Special care must be taken when routing near hot objects such as manifolds.
- 2.5 **Fluid Compatibility** – Hose selection must assure compatibility of the hose tube, cover, and fittings with the fluid used. Additional caution must be observed in hose selection for gaseous applications.
- 2.6 **Size** – Transmission of power by means of pressurised fluid varies with pressure and rate of flow. The size of the components must be adequate to keep pressure losses to a minimum and avoid damage to the hose due to heat generation or excessive turbulence.
- 2.7 **Routing** – Attention must be given to optimum routing to minimise inherent problems.
- 2.8 **Environment** – Care must be taken to ensure that the hose and fittings are either compatible with, or protected from, the environment to which they are exposed. Environmental conditions such as ultraviolet light, ozone, salt water, chemicals and air pollutants can cause degradation and premature failure and, therefore, must be considered.
- 2.9 **Mechanical Loads** – External forces can significantly reduce hose life. Mechanical loads which must be considered include excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type fittings or adaptors may be required to ensure no twist is put into the hose. Unusual applications may require special testing prior to hose selection.
- 2.10 **Abrasion** – While a hose is designed with a reasonable level of abrasion resistance, care must be taken to protect the hose from excessive abrasion which can result in erosion, snagging, and cutting of the hose cover. Exposure of the reinforcement will significantly accelerate hose failure.
- 2.11 **Proper End Fitting** – Care must be taken to ensure proper compatibility exists between the hose and coupling selected based on the manufacturer's recommendations substantiated by testing to industry standards such as SAE J517.
- 2.12 **Length** – When establishing proper hose length; motion absorption, hose length changes due to pressure, as well as hose and machine tolerances must be considered.
- 2.13 **Specifications and Standards** – When selecting hose, government, industry, and manufacturer's specifications and recommendations must be reviewed as applicable.
- 2.14 **Hose Cleanliness** – Hose components vary in cleanliness levels. Care must be taken to ensure that the assemblies selected have an adequate level of cleanliness for the application.
- 2.15 **Electrical Conductivity** – Certain applications require that hose be non-conductive to prevent electrical current flow. Other applications require the hose to be sufficiently conductive to drain off static electricity. Hose and fittings must be chosen with these needs in mind.
- 2.16 **High Pressure Gas** – Do not use hydraulic hose to transmit High Pressure gases.

INSTALLATION AND MAINTENANCE OF HOSE ASSEMBLIES

- 2.17 **Vibration** – Vibration can reduce hose service life. If necessary, conduct tests to evaluate the effects of frequency and amplitude of system vibration on a hose assembly. Clamps of other devices may be used to reduce the effects of vibration.

INSTALLATION:

3. After the selection of proper hose, the following factors must be considered by the installer:

- 3.1 **Pre-Installation Inspection** – Prior to installation, a careful examination of the hose must be performed. All components must be checked for correct style, size and length. In addition, the hose assembly, and each of the individual components comprising the assembly, must be examined for cleanliness, I.D. obstructions, blisters, loose cover, or any other visible defects.
- 3.2 **Follow Manufacturer's Assembly Instructions.**
- 3.3 **Minimum Bend Radius** – Installation at less than minimum bend radius may significantly reduce hose life. Particular attention must be given to preclude sharp bending at the hose/fittings juncture which may result in leaking, hose rupturing, or the hose assembly blowing apart.
- 3.4 **Lengths** – Unnecessarily long hose can increase pressure drop and affect system performance. When pressurised, hose that is too short may pull loose from its fittings or stress the hose fitting connections, causing premature metallic or seal failures.
- 3.5 **Twist Angle and Orientation** – Hose installations must be such that relative motion of machine components produces bending of the hose rather than twisting.
- 3.6 **Securement** – In many applications, it may be necessary to restrain, or guide, the hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to ensure such restraints do not introduce additional stress or wear points.
- 3.7 **Proper Connection of Ports** – Proper physical installation of the hose requires a correctly installed port connection while ensuring that no twist or torque is transferred to the hose.
- 3.8 **Avoid External Damage** – Proper installation is not complete without ensuring that all tensile loads, side loads, kinking, flattening, potential abrasion, thread damage, or damage to sealing surfaces are corrected or eliminated.
- 3.9 **System Check out** – After completing the installation, all entrapped air must be eliminated, then the system must be pressurised to the maximum system pressure and checked for proper function, and for freedom from leaks.

NOTE: Avoid potential hazardous areas while testing.

MAINTENANCE:

4. Even with proper selection and installation, hose life may be significantly reduced without a continuing maintenance program. Maintenance and Inspection frequency should be determined by the severity of the application and risk potential. A maintenance program should include the following as a minimum:

- 4.1 **Hose Storage** – Hose products in storage can be adversely affected by temperatures, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents, radioactive materials, sharp edges and abrasive surfaces, electric or strong magnetic fields, mould and fungi. Storage areas should be relatively cool and dark, and free of dust, dirt, dampness and mildew. Store hose in a manner that facilitates age control and first-in, first-out usage based on the manufacturing date on the hose or hose assembly.
- 4.2 **Visual Inspection** – Any of the following conditions require immediate system shut down and replacement of the hose assembly:
 - a) Leaks at fittings or in hose. (Leaking fluid is a fire hazard).
 - b) Damaged, cut, or abraded cover. (Any reinforcement exposed).
 - c) Kinked, crushed, flattened, or twisted hose.
 - d) Hard, stiff, heat cracked, or charred hose.
 - e) Blistered, soft, degraded, or loose cover.
 - f) Cracked, damaged, or badly corroded fittings.
 - g) Slippage or movement of fittings on the hose.
- 4.3 **Visual Inspection** – The following items must be tightened, repaired or replaced as required:
 - a) Leaking port conditions.
 - b) Clamps, guards, shields.
 - c) Remove excessive dirt build-up.
 - d) System fluid level, fluid type, and any air entrapment.
- 4.4 **Functional Test** – Operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks.

NOTE: Avoid potential hazardous areas while testing.

- 4.5 **Replacement Intervals** – Specific replacement intervals must be considered based on previous service life, government or industry recommendations or when failures could result in unacceptable down time, damage, or injury risk.



SAFETY GUIDE

FOR THE SELECTION AND USE OF HOSE, FITTINGS AND RELATED ACCESSORIES

Failure or improper selection or improper use of hose, fittings, or related accessories can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of hose, fittings, or related accessories include, but are not limited to:

- Fittings blown off at high speed.
- High velocity medium discharge.
- Explosion, or burning, of the conveyed medium.
- Electrocution from high voltage electric power lines or other sources of electricity.
- Contact with suddenly moving, or falling, objects that are held in position, or moved, by conveyed medium.
- Injections by high-pressure fluid or air discharge.
- Dangerously whipping hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity build-up.
- Sparking, or explosion, while spraying paint or other flammable liquid.

1. GENERAL INSTRUCTIONS:

- 1.1 **Scope:** This safety guide provides instructions for selecting and using (including assembling, installing and maintaining) hose fittings (including all products commonly called “fittings” or “couplings” for attachment to hose), and related accessories (including crimping machines and tooling). This safety guide is to be used in conjunction with the specific publications for the specific hose, fittings and related accessories that are being considered for use.
- 1.2 **Fail-Safe:** Hose and hose assemblies can and do fail. Design all systems in a fail-safe mode so that failure of the hose or hose assembly or related accessories will not endanger persons or property.
- 1.3 **Distribution:** Provide a copy of this safety guide to each person who is responsible for selecting or using hose and fittings and related accessories. Do not select or use hose and fittings or related accessories without thoroughly understanding this safety guide.
- 1.4 **User Responsibility:** Due to the wide variety of operating conditions and uses for hose and fittings and related accessories, RYCO do not represent or warrant that any particular hose or fitting or related accessories is suitable for any specific end use. This safety guide does not analyse all technical parameters that must be considered in selecting a product. The product user, through their own analysis and testing, is solely responsible for:
 - The final selection of the hose and fittings and related accessories.
 - Assuming that requirements are met and the use presents no health or safety hazards.
 - Providing all appropriate health and safety warnings where hose and fittings and related accessories are used.
- 1.5 **Additional Questions:** Contact the RYCO Hydraulics Technical Department if you have any questions or require any additional information.

2. HOSE AND FITTING SELECTION INSTRUCTIONS:

- 2.1 **Electrical Conductivity:** Certain applications require that a hose be non-conductive to prevent electrical current flow. Other applications require the hose to be sufficiently conductive to drain off static electricity. Extreme care must be exercised when selecting hose and fittings for these or any other applications. For applications that require the hose to be electrically non-conductive, including but not limited to applications near high voltage electric lines, only special non-conductive hose can be used. The manufacturer of the equipment must be consulted to be certain that the hose and fittings selected are correct for the application. Do not use any RYCO hose or fittings for any such application unless:
 - (i) The application is expressly approved by RYCO.
 - (ii) The hose is both orange colour and marked “non-conductive”.
 - (iii) The manufacturer of the equipment specifically approves the particular RYCO hose and fittings.

Do not use any RYCO hose or fittings for conveying paint in airless spraying or similar applications without the written approval of RYCO in each case. A special hose and fittings assembly is required for this application. If the correct hose and fitting application is not used for this application, static electricity can build up and cause sparks that may result in an explosion and/or fire.

The electrical conductivity or non-conductivity of hose and fittings is dependent upon many factors and may be susceptible to change.
- 2.2 **Pressure:** Hose selection must be made so that the published maximum recommended working pressure of the hose is equal or greater than the maximum system pressure. Surge pressures in the system higher than the published maximum recommended working pressure will cause failure, or shorten hose life.
- 2.3 **Suction:** Hoses used for suction applications must be selected to ensure that the hose will withstand the vacuum and pressure of the system.
- 2.4 **Temperature:** Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the hose. Care must be taken when routing hose near hot objects such as manifolds.

- 2.5 **Fluid Compatibility:** Hose selection must assure compatibility of the hose tube, cover, reinforcement, and fittings with the fluid media used.
- 2.6 **Permeation:** Permeation (that is, seepage through the hose) will occur from inside the hose to the outside environment when hose is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials such as helium, fuel, oil, natural gas or freon). This permeation may result in high concentrations of vapours which are potentially flammable, explosive, or toxic, and in loss of fluid. You must take into account the fact that permeation will occur and could be hazardous.

Permeation of moisture from the outside environment to inside the hose will also occur. If there is a possibility that moisture permeation would have detrimental effects (particularly for, but not limited to, refrigeration and air conditioning systems) incorporation of appropriate system safeguards should be selected and used. Rubber hoses should not be painted without consulting RYCO first.
- 2.7 **Size:** Transmission of power by means of pressurised fluid varies with pressure and rate flow. The size of the components must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation of excessive fluid velocity.
- 2.8 **Routing:** Attention must be given to optimum routing to minimise inherent problems.
- 2.9 **Environment:** Care must be taken to ensure that the hose and fittings are either compatible with or protected from the environment to which they are exposed including but not limited to ultraviolet radiation, sunlight, heat, ozone, moisture, water, salt water, chemicals and air pollutants.
- 2.10 **Mechanical Loads:** Consideration must be given to excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type fittings or adaptors may be required.
- 2.11 **Physical Damage:** Care must be taken to protect hose from wear, snagging and cuts.
- 2.12 **Proper End Fittings:** See instructions below. These recommendations may be substantiated by testing to industry standards.
- 2.13 **Length:** When establishing a proper hose length, motion absorption, hose length changes due to pressure, and hose and machine tolerances must be considered.
- 2.14 **Specifications and Standards:** When selecting hose and fittings, government, industry, and RYCO specifications and recommendations must be reviewed and followed as applicable.
- 2.15 **Hose Cleanliness:** Hose components may vary in cleanliness levels. Care must be taken to ensure that the assembly selected has an adequate level of cleanliness for the application.
- 2.16 **Fire Resistant Fluids:** Some fire resistant fluids require the same hose that is used with petroleum oil. Some use a special hose, while a few fluids will not work with any type of hose at all. Refer to General Instructions 1.5 and Hose and Fitting Selection Instructions 2.5 on page 229.
- 2.17 **Radiant Heat:** The hose can be heated to destruction without contact by nearby items such as hot manifolds or molten metal.
- 2.18 **Welding and Brazing:** Heating of plated parts, including hose fittings and adaptors, above 232°C (450°F) such as during welding, brazing, or soldering may emit deadly gases.
- 2.19 **Atomic Radiation:** Atomic radiation affects all materials used in hose assemblies. Do not expose hose assemblies to atomic radiation.

3. HOSE AND FITTING ASSEMBLY AND INSTALLATION INSTRUCTIONS:

- 3.1 **Pre-Installation Inspection:** Prior to installation, a careful examination of the hose assembly must be performed. All components must be checked for correct style, size, and length. The hose must be examined for cleanliness, obstructions, blisters, cover looseness, or any other visible defects.
- 3.2 **Hose and Fitting Assembly:** Do not assemble a RYCO fitting on a RYCO hose that is not specifically listed for that fitting by RYCO. Do not assemble RYCO fittings on another manufacturer's hose or a RYCO hose on another manufacturer's fitting unless RYCO approves the assembly in writing and the user verifies the assembly and the application. Refer to General Instruction 1.4 on page 229. RYCO's published instructions must be followed for assembling fittings on hose.
- 3.3 **Safety Equipment:** During fabrication, use proper safety equipment, including eye protection, respiratory protection and adequate ventilation.
- 3.4 **Reuse of Hose and Fittings:** Damaged hoses or hose fittings shall not be used.
- 3.5 **Assembly Inspection:** After assembly, hose assemblies shall be inspected for visible defects and interior obstructions, such as tube bulges, etc.
- 3.6 **Marking:** Hose assemblies shall be marked in accordance with any relevant standards.
- 3.7 **Parts:** Do not use any RYCO hose or fitting part unless used with the correct mating parts in accordance with published instructions.
- 3.8 **Field Attachable/Permanent:** Industrial field attachable couplings may be reattached once only after their first use, provided that they have not been part of a hose assembly that has failed, and are in a fit condition for reuse. Do not reuse any field attachable hose coupling that has been blown or pulled off a hose. Do not reuse any permanent (that is, crimped or swaged) hose fittings or any part thereof.

INSTALLATION AND MAINTENANCE OF HOSE ASSEMBLIES

- 3.9 **Minimum Bend Radius:** Installation of a hose at less than the minimum listed bend radius may significantly reduce hose life.
- 3.10 **Twist Angle and Orientation:** Hose installations must be such that relative motion of machine components does not produce twisting.
- 3.11 **Securement:** In many applications, it may be necessary to restrain, protect or guide the hose to protect it from damage. Care must be taken to ensure such restraints do not introduce additional stress or wear points.
- 3.12 **Proper Connection of Ports:** Proper physical installation of the hose requires a correctly installed port connection while ensuring that no twist or torque is transferred to the hose.
- 3.13 **Assembly Torque:** The correct torque instructions and specifications must be followed to obtain a proper seal when a hose assembly is attached to a port, an adaptor or another assembly.
- 3.14 **External Damage:** Proper installation is not complete without ensuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage, or damage to sealing surfaces are corrected or eliminated.
- 3.15 **System Check-out:** After completing the installation, all air entrapment must be eliminated and the system pressurised to the maximum system pressure and checked for proper function and freedom from leaks.
NOTE: Avoid potential hazardous areas while testing.
- 3.16 **Measuring (OAL) Overall Length of Hose and Hose Assemblies:** Measurements are normally taken with the hose or assembly in a straight position. For most assemblies, the OAL is measured from the end of one fitting to the end of the other fitting (refer to Figure 1 below). Assemblies with certain types of fittings, however, require different measuring procedures. Fittings with both a sealing seat and a moveable or retractable nut are measured from the sealing seat. Elbow fittings are measured as illustrated below in Figure 2.

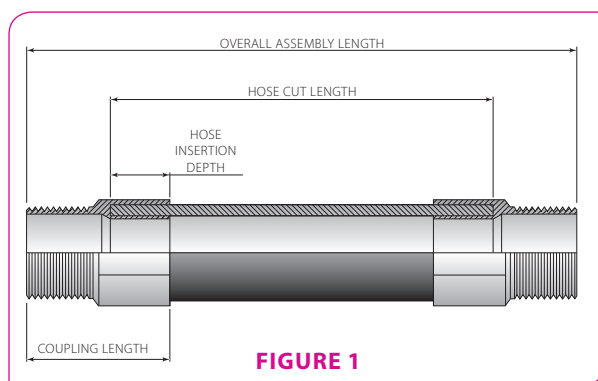


FIGURE 1

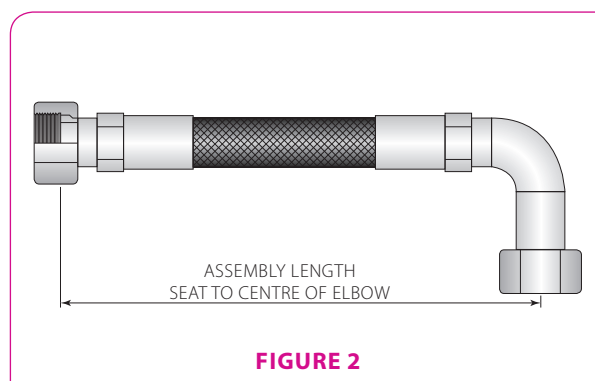


FIGURE 2

4. HOSE AND FITTING MAINTENANCE INSTRUCTIONS:

Even with proper selection and installation, hose life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must include the following as a minimum.

- 4.1 **Visual Inspection Hose/Fitting:** Any of the following conditions require immediate system shut down and replacement of the hose assembly:
 - Slippage or movement of fittings on the hose.
 - Damaged, cut or abraded cover.
 - Hard, stiff, heat cracked or charred hose.
 - Cracked, damaged or badly corroded fittings.
 - Leaks at fitting or in hose.
 - Kinked, crushed, flattened or twisted hose.
 - Blistered, soft, degraded or loose cover.
 - Unusual noise, odour or heat.
- 4.2 **Visual Inspection All Other:** The following items must be tightened, repaired or replaced as required:
 - Leaking port conditions.
 - Remove excess dirt build-up.
 - Clamps, guards, shields.
 - System fluid level, fluid type and any air entrapment.
- 4.3 **Functional Test:** Operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks.
- 4.4 **Replacement Intervals:** Specific replacement intervals must be considered based on previous service life, government or industry recommendations.

HOSE SELECTION - STAMPED

WHEN FABRICATING AND SPECIFYING HOSE ASSEMBLIES, YOU **NEED** TO ASK THE FOLLOWING QUESTIONS:

The **STAMPED** acronym stands for the 7 major information areas required to provide a quality hose assembly for all customers.

S SIZE

- **INSIDE DIAMETER**
- **OUTSIDE DIAMETER**
- **LENGTH**

The I.D., O.D. and overall length of the assembly.

Overall length should be specified to include fittings.

Tolerances need to be specified if special requirements exist.

Determine the replacement hose I.D. by reading the printing on the side of the original hose or cut and measure the inside diameter of the hose.

The inside diameter of the hose must be appropriate to keep pressure loss to a minimum, maintain adequate flow and avoid damage to the hose due to heat generation or excessive turbulence.

The flow rate of the system in conjunction with the inside diameter of the hose will dictate the fluid velocity through the hose. Please note that suction line recommendations are different than pressure lines.

T TEMPERATURE

- **MATERIAL CONVEYED**
- **ENVIRONMENTAL CONDITIONS**

Does the material being conveyed have particular temperature requirements?

Will flame resistance or flammability be an issue?

Is the assembly going to be exposed to any low or sub-zero temperatures?

Care must be taken when routing near hot manifolds and where necessary a Heat Sleeve should be utilised.

A APPLICATION

- **CONDITIONS OF USE**
- **CONFIGURATION**
- **ROUTING**

What is the orientation and aspect of the hose? Is the hose hanging, laying horizontally supported or unsupported?

What else is attached to the hose?

Are there any external or mechanical loads on the hose?

What are the bend radius requirements?

Are there elongation considerations with working pressure?

Is it for indoor or outdoor use?

What are its electrical conductivity requirements?

What equipment type is the hose attached to?

What external conditions is it exposed to ie; abrasion, oil (specify type), solve (specify type), acid (specify type and concentration), ozone, salt water?

Determine the strength and frequency of impulsing or pressure spikes.

Is it for non-flexing applications (static), or flexing applications (dynamic)?

What are its vacuum requirements?

What type of hose is now in use?

What kind of service life is currently being obtained?

Obtain description of failure or source of customer dissatisfaction.

M MEDIA

- **MATERIAL BEING CONVEYED**
- **CONCENTRATION AND TYPE OF MATERIAL**

Are there special requirements for this hose tube?

Are there any special specifications (or agency requirements) that need to be considered (e.g., FDA, API)?

Will the material be continuously flowing, or sit in the hose for long periods of time?

What kind of media velocity and/or flow rate is required?

Which chemical and/or concentration (MSDS) is being conveyed?

What solids, their description and size, are to be conveyed?

Determine fluid compatibility - some applications require specialised oils or chemicals to be conveyed through the system.

In addition to the hose materials, all other components, which make up the hose assembly (hose ends, o-rings, etc), must also be compatible with the fluid being used.

Depending on the fluid, your hose supplier may lower the maximum temperature or pressure rating of the assembly.

WHEN FABRICATING AND SPECIFYING HOSE ASSEMBLIES, YOU **NEED** TO ASK THE FOLLOWING QUESTIONS:

The **STAMPED** acronym stands for the 7 major information areas required to provide a quality hose assembly for all customers.

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

P PRESSURE

- THE PRESSURE TO WHICH THE ASSEMBLY WILL BE EXPOSED

What is the system pressure, including pressure spikes?

Hose assembly working pressures must be equal to or greater than the system pressure.

Pressure spikes greater than the maximum working pressure will shorten hose life and must be taken into consideration.

What temperature implications are there?

What vacuum considerations are there?

What is the Maximum Operating Pressure?

Both the hose and hose end should not be rated to a pressure less than the maximum operating pressure of the system.

E ENDS

- STYLE, TYPE, ORIENTATION AND ATTACHMENT METHODS

Is it an uncoupled or coupled hose?

Is it a hose with built-in fittings?

Specify end style.

What are its materials and dimensions (steel, stainless, etc.)?

What are its conductivity requirements?

D DELIVERY

- THE SPECIFIC CUSTOMER REQUIREMENTS

What are the testing requirements?

What are the certification requirements (ie Coast Guard)?

Are there any special packaging, shipping or tagging requirements?

When is the hose needed and where?



MISAPPLICATIONS OR MISUSE

DAMAGE TO HOSE COVER

The hose cover protects the reinforcement of the hose from damage. If the reinforcement, which provides the hoses pressure rating, is exposed or damaged, it will affect the working pressure of the hose and may lead to failures when pressurised. Damaged hose should be removed from service and repaired or replaced.

WHAT'S UNDER THE TAPE?

The use of duct tape or rags to hide defects or patch leaks should be discontinued as it could be hiding a potential hazard. Any damaged or leaking hoses should be removed from service and repaired or replaced.

HOSE TAIL INSERTION

A hose assembly, in order to be completely safe and functional, must have the tail of the coupling fully inserted into the square cut end of the hose. Failure to correctly do so may result in premature failure of the assembly which has the potential to cause damage to plant and personnel.

HOSE ASSEMBLIES

PRESSURE RATINGS:

Pressure ratings for couplings, as stated in this catalogue, are based upon ambient temperature (20°C) applications with: true hose ID, RYCO couplings, RYCO clamps, RYCO hose and proper installation by a qualified assembler. Temperature can affect coupling retention - for temperatures other than ambient (20°C), contact RYCO.

PRODUCT SELECTION:

Many of the products in this manual are used in hose assemblies in a variety of applications. The safety of any hose assembly rests on the proper selection, installation, testing and use of each product. The safe use of any product in this manual is dependent upon the correct selection of the hose, fittings and method of attachment. To ensure a correct selection, the user must inform the distributor of the application and pressure involved when ordering hose assemblies. The use of the acronym **STAMPED** (Size, Temperature, Application, Media, Pressure, Ends) will help in the proper selection of hose assembly components. The selection of couplings and clamping devices is the responsibility of the purchaser or user based upon the hose manufacturer's recommendations.

INSTALLATION:

To achieve a safe and reliable assembly, proper installation procedures must be followed. Each component of the assembly plays a part in determining these procedures. The purchaser or user must follow proper procedures.

TESTING:

RYCO recommends that all hoses assemblies be tested in accordance with the hose manufacturer's recommendations.

RE-TESTING AND INSPECTION:

RYCO recommends inspection and re-testing of hose assemblies on a regular and consistent basis in accordance with the hose manufacturer's recommendations. The application determines the regularity of the inspection and re-testing schedule. Any worn out or damaged hoses and fittings or missing safety devices should be replaced immediately. Bolt-style clamps must be checked and retightened on a regular and consistent basis.

The Handbook of Compressed Gases states: "The very properties that make compressed gases useful in almost every area of modern life can also make them dangerous when mishandled. Years of experience with compressed gases have led to practices and equipment which, if employed, result in complete safety."

All hose assemblies should be viewed as potential hazards. This document is designed to inform and educate anyone who manufactures, specifies, supplies, purchases, assembles, uses, maintains or tests any hose assembly or its component parts. The proper selection and maintenance of hose, couplings, attachment devices and accessories is imperative. It is the end users responsibility to inform RYCO of the application and any special conditions that the hose assembly must meet. Accidents and downtime may occur if hose assemblies are not properly selected for the specific application. The performance and safety of the assembly is affected by the quality of the individual components. The use of the **STAMPED** method will help in the proper selection of the hose assembly components.

AIR HOSE COUPLINGS

Air can be one of the most dangerous forms of energy because it is used in so many applications, and when mishandled it can have more serious consequences than fluids. Air as a gas is compressible (fluids press only against hose or vessel walls and lose little volume under pressure). When pressurised air releases suddenly, it does so with explosive force and can cause rapid hose whip, which can cause serious physical harm to personnel or damage to nearby objects. This is why selecting the correct hose and couplings for air lines, and their proper installation and maintenance, is so important. Never take for granted that a coupling is connected correctly or that a clamp is fully tightened on an air hose - check it regularly and use safety devices.

STEAM AND GAS

The same rules apply for steam and gas as they do for air. As steam and gas are inherently more hazardous, personnel should treat the hose and couplings on these lines with more care and respect. Checking clamp tightness is very important with steam hose, where it is not unusual for clamps to loosen in service, in which case they **MUST BE RETIGHTENED!** Safety devices should also be used. Hose assemblies for steam must only use components specifically nominated for steam service.

FLUID HOSE COUPLINGS

Again, nothing should be taken for granted. In particular, check clamps for tightness each time the lines are used, especially when petroleum products or other hazardous liquids are involved. When large diameter hose is suspended, it can be quite dangerous if it drops unexpectedly due to a coupling "pull-out" or sudden disconnection. A heavy fitting or clamp, plus the weight of the hose itself falling from any height can cause injuries or damage. Be sure to use safety devices.

ALL HOSE ASSEMBLIES

All hose assemblies should be treated with respect and as a potential hazard. Worn-out fittings should be replaced. Retaining devices such as clips, cables or chains should be used, and clamps should be checked regularly. Under no circumstances should any coupling be disconnected while under pressure unless the coupling is specifically designed to do so. Disconnecting couplings under pressure could result in serious injury or death and destruction of property and equipment.

RYCO HOSE ASSEMBLY PRESSURE RECOMMENDATION CHART

RYCO HOSE ASSEMBLY PRESSURE RECOMMENDATION CHART

Mark hose assembly with pressure from this chart or the hose working pressure, whichever is lower. All pressure recommendations are in pounds per square inch (psi)

- This chart is intended as a guide only. It only applies to metal couplings as shown for ambient temperature (21°C/69.8°F) applications with true ID hose. It assumes RYCO supplied couplings, RYCO supplied clamps, quality hose and proper installation by a qualified assembler using RYCO procedures and equipment. Temperature can affect the coupling retention. For questions relating to temperatures other than ambient (21°C/69.8°F) contact your local RYCO branch.
- This chart does not apply to non-RYCO products, with used hose, in non-approved or unsupported applications or in non-standard assemblies.
- Do not use this chart if it conflicts with the hose manufacturer's recommendations.
- All hose assemblies should be pressure tested to Australian Standards or Rubber Manufacturers Association.

NOTE: ABL stands for 'Alternate Buckle Locations' when fitting multiple Band Clamps to hoses. Locate the buckle of the clamps so they are not all in a row, ie 2 bands placed on opposite sides (180 degrees) of the hose and 3 or 4 or more clamps at approximately 90 degrees. This will ensure you reduce the chance of any direct leak path under the buckle flat.

HOSE TYPE	COUPLINGS	CLAMPS AND FERRULES	MAX RECOMMENDED WORKING PRESSURE BAR/PSI FOR HOSE SIZE													SPECIAL NOTES			
			1/4"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"		6"		
Air Textile Reinforced Rubber	Claw Couplings	Preformed Band Clamp	bar			10.34	10.34	10.34	10.34									(2) bands on 5/8" or larger.	
			psi			150	150	150	150										
	Claw Couplings	Claw Clamp	bar			10.34	10.34	10.34	10.34									Must use mating RYCO Claw fittings with safety clip installed (ABL).	
			psi			150	150	150	150										
	Brass Nut and Tail - Combination Nipples	Preformed Band Clamp	bar	13.79	10.34	10.34	0.98	0.98	0.98										(2) bands on 5/8" or larger (ABL).
			psi	200	150	150	100	100	100										
	Machined - Short Tail	Preformed Band Clamp	bar			10.34	0.98	0.98	0.98									(2) bands on 5/8" or larger (ABL).	
		psi				150	100	100	100										
	Reusable - Brass	Worm Drive Clamps	bar	17.23	17.23	17.23												(2) clamps on 1/2" to 1" (ABL).	
		psi	250	250	250														
	Machined - Long Tail	Preformed Band Clamp	bar			20.68	20.68	20.68	20.68									(2) bands on 1/2" to 1" (ABL).	
		psi				300	300	300	300										
Air Wire Reinforced Rubber	Claw Couplings	Interlocking Clamp	bar		10.34	10.34		10.34	10.34									Must use mating RYCO Claw clamps with safety clip installed.	
		psi		150	150		150	150											
Chemical Plastic for Liquid Service	Machined - Medium Tail	Preformed Band Clamp	bar			8.62		8.62	8.62	8.62	8.62	5.17	5.17	3.48	3.48			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; (ABL).	
			psi			125		125	125	125	125	75	75	50	50				
	Machined - Medium Tail	HD Bolt Clamps	bar							8.62	8.62	5.17	5.17	3.48	3.48			(3) clamps on 3" & 4"; (2) clamps on 1-1/2" to 2-1/2"; (1) clamp on the rest; (ABL).	
			psi							125	125	75	75	50	50				
	Machined - Long Tail	Preformed Band Clamp	bar			10.34		10.34	10.34	10.34	10.34	8.62	0.98	5.17	5.17			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest; (ABL).	
			psi			150		150	150	150	150	125	100	75	75				
	Machined - Long Tail	HD Bolt Clamps	bar							10.34	10.34	8.62	0.98	5.17	5.17			(5) clamps on 3" & 4"; (4) clamps on 2" & 2-1/2"; (3) clamps on the rest; (ABL).	
		psi								150	150	125	100	75	75				
	Aluminium/Brass/Stainless Steel Camlocks	Preformed Band Clamp	bar			10.34		10.34	17.23	17.23	17.23	10.34	8.62	0.98				(2) bands on 1/2" to 3"; (ABL).	
		psi			150		150	250	250	250	250	150	125	100					
	Aluminium/Brass/Stainless Steel Camlocks	HD Bolt Clamps	bar							17.23	17.23	17.23	10.34	8.62	0.98			(2) bands on 1/2" to 3"; (ABL).	
		psi								250	250	250	150	125	100				

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

TECHNICAL

RYCO HOSE ASSEMBLY PRESSURE RECOMMENDATION CHART

HOSE TYPE	COUPLINGS	CLAMPS AND FERRULES	MAX RECOMMENDED WORKING PRESSURE BAR/PSI FOR HOSE SIZE														SPECIAL NOTES
			1/4"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	
Chemical Rubber for Liquid Service	Machined - Medium Tail	Preformed Band Clamp	bar			8.62		8.62	8.62	8.62	5.17	5.17	3.48	3.48			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; (ABL).
	Machined - Medium Tail	HD Bolt Clamps	psi			125		125	125	125	75	75	50	50			(3) clamps on 3" & 4"; (2) clamps on 1-1/2" to 2-1/2"; (1) clamp on the rest; (ABL).
	Machined - Long Tail	Preformed Band Clamp	bar			10.34		10.34	10.34	10.34	8.62	0.98	5.17	5.17			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest.
	Machined - Long Tail	HD Bolt Clamps	psi			150		150	150	150	125	100	75	75			(5) clamps on 3" & 4"; (4) clamps on 2" & 2-1/2"; (3) clamps on the rest.
	Aluminium/Brass/Stainless Steel Camlock and Couplings	Preformed Band Clamp	bar			10.34		17.23	17.23	17.23	17.23	10.34	8.62	0.98			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; (ABL).
	Aluminium/Brass/Stainless Steel Camlock and Couplings	HD Bolt Clamps	psi			150		250	250	250	250	150	125	100			(3) clamps on 3" & 4"; (2) clamps on 1-1/2" to 2-1/2"; (1) clamp on the rest; (ABL).
Food Grade Rubber	Machined - Medium Tail	Preformed Band Clamp	bar			8.62		8.62	8.62	8.62	5.17	5.17	3.48	3.48	1.72	1.72	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest.
	Machined - Medium Tail	HD Bolt Clamps	psi			125		125	125	125	75	75	50	50	25	25	(4) clamps on 6"; (3) clamps on 3" to 5"; (2) clamps on 1-1/2" to 2-1/2"; (1) clamp on the rest.
	Stainless Steel Camlock and Couplings	Preformed Band Clamp	bar			10.34		17.23	17.23	17.23	17.23	10.34	8.62	0.98	5.17	5.17	(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest.
	Stainless Steel Camlock and Couplings	HD Bolt Clamps	psi			150		250	250	250	250	150	125	100	75	75	(5) clamps on 3" & 4"; (4) clamps on 2" & 2-1/2"; (3) clamps on 1-1/4" & 1-1/2"; (2) clamps on the rest.
Layflat	Irrigation Coupling	Preformed Band Clamp	bar						17.23	17.23	17.23	10.34	8.62	0.98		5.17	(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest.
	Aluminium/Brass/Stainless Steel Camlock	Preformed Band Clamp	psi						250	250	250	150	125	100	75	75	(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest.
Material-Handling Rubber Suction and Delivery	Cast Short Tail	Preformed Band Clamp	bar							5.17	5.17	3.48	3.48	3.48	1.72	1.72	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2" (ABL).
	Cast Short Tail	HD Bolt Clamps	psi							75	75	50	50	50	25	25	(4) clamps on 6"; (3) clamps on 3" to 5"; (2) clamps on 1-1/2" to 2-1/2" (ABL).
	Machined - Medium Tail	Preformed Band Clamp	bar							8.62	5.17	5.17	3.48	3.48	1.72	1.72	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (ABL).
	Machined - Medium Tail	HD Bolt Clamps	psi							125	75	75	50	50	25	25	(4) clamps on 6"; (3) clamps on 3" to 5"; (2) clamps on 1-1/2" to 2-1/2"; (ABL).
	Machined - Long Tail	Preformed Band Clamp	bar							10.34	8.62	0.98	5.17	5.17	5.17		(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest; (ABL).
	Machined - Long Tail	HD Bolt Clamps	psi							150	125	100	75	75	75		(5) clamps on 3" & 4"; (4) clamps on 2" & 2-1/2"; (3) clamps on the rest; (ABL).
	Aluminium/Brass/Stainless Steel Camlocks	Preformed Band Clamp	bar								17.23	17.23	10.34	8.62	0.98	5.17	5.17

RYCO HOSE ASSEMBLY PRESSURE RECOMMENDATION CHART

HOSE TYPE	COUPLINGS	CLAMPS AND FERRULES	MAX RECOMMENDED WORKING PRESSURE BAR/PSI FOR HOSE SIZE														SPECIAL NOTES									
			1/4"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"										
Material Handling Delivery	Cast Short Tail	Double Bolt Clamp	bar																5.17	5.17	3.48	3.48	3.48	1.72	1.72	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest (ABL).
		psi																	75	75	50	50	50	25	25	
	Machined - Medium Tail	Double Bolt Clamp	bar																8.62	5.17	5.17	3.48	3.48	1.72	1.72	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest (ABL).
		psi																125	75	75	50	50	25	25		
	Machined - Long Tail	Double Bolt Clamp	bar															10.34	8.62	0.98	5.17	5.17			(3) double bolt clamps on all sizes; (ABL).	
		psi																150	125	100	75	75				
Petroleum Transfer	Machined - Medium Tail	Preformed Band Clamp	bar			8.62		8.62	8.62	8.62	8.62	5.17	5.17	3.48	3.48	1.72	1.72								(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; (ABL).	
		psi			125		125	125	125	125	125	75	75	50	50	25	25									
	Machined - Medium Tail	HD Bolt Clamps	bar							8.62	8.62	5.17	5.17	3.48	3.48	1.72	1.72								(4) clamps on 6"; (3) clamps on 3" to 5"; (2) clamps on 1-1/2" to 2-1/2"; (1) clamp on the rest; (ABL).	
		psi								125	125	75	75	50	50	25	25									
	Machined - Long Tail	Preformed Band Clamp	bar			10.34		10.34	10.34	10.34	10.34	8.62	0.98	5.17	5.17										(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest; (ABL).	
		psi			150		150	150	150	150	150	125	100	75	75											
	Machined - Long Tail	HD Bolt Clamps	bar							10.34	10.34	8.62	0.98	5.17	5.17										(5) clamps on 3" & 4"; (4) clamps on 2" & 2-1/2"; (3) clamps on the rest; (ABL).	
		psi								150	150	125	100	75	75											
	Aluminium/Brass/Stainless Steel Camlocks	Preformed Band Clamp	bar			10.34		17.23	17.23	17.23	17.23	10.34	8.62	0.98	5.17	5.17								(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest.		
		psi			150		250	250	250	250	250	150	125	100	75	75										
	Aluminium/Brass/Stainless Steel Camlocks	HD Bolt Clamps	bar					17.23	17.23	17.23	10.34	8.62	0.98	5.17	5.17										(5) clamps on 3" & 4"; (4) clamps on 2" & 2-1/2"; (3) clamps on 1-1/4" & 1-1/2"; (2) clamps on the rest.	
		psi						250	250	250	150	125	100	75	75											
Push-On	Push-On	N/A	bar	12.06	12.06	12.06	12.06	12.06																	Push-On fittings should ONLY be used on Push-On hose.	
			psi	175	175	175	175	175																		
Steam	Steam Couplings with Safety Collar	Steam Interlocking Bolt Clamp	bar			17.23		17.23	17.23	17.23	17.23	17.23	17.23	17.23	17.23		17.23								Requires matched bolt & claw clamps for Hose OD.	
			psi			250		250	250	250	250	250	250	250	250		250									
Water Suction and Delivery	Claw Couplings	Preformed Band Clamp	bar			10.34	10.34	10.34	10.34																(2) bands on 5/8" or larger.	
		psi			150	150	150	150																		
	Claw Couplings	Interlocking Clamp	bar		10.34	10.34		10.34	10.34																Must use mating RYCO Claw clamps with safety clip installed.	
		psi		150	150		150	150																		
	Machined - Short Tail	Preformed Band Clamp	bar			10.34	0.98	0.98	0.98																(2) bands on 5/8" or larger.	
		psi			150	100	100	100																		
	Cast Short Tail	Preformed Band Clamp	bar			10.34	0.98	0.98	0.98	5.17	5.17	3.48	3.48	3.48	1.72	1.72								(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2".		
		psi			150	100	100	100	75	75	50	50	50	25	25											
	Cast Short Tail	HD Bolt Clamps	bar							5.17	5.17	5.17	3.48	3.48	3.48	1.72	1.72								(4) clamps on 6"; (3) clamps on 3" to 5"; (2) clamps on 1-1/2" to 2-1/2".	
		psi								75	75	75	50	50	50	25	25									
Machined - Medium Tail	Preformed Band Clamp	bar			17.23	13.79	13.79	10.34	10.34	8.62	5.17	5.17	3.48	3.48	1.72	1.72								(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest.		
	psi			250	200	200	150	150	125	75	75	50	50	25	25											
Machined - Long Tail	Preformed Band Clamp	bar			20.68	20.68	20.68	20.68	20.68	10.34	8.62	0.98	5.17	5.17										(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest.		
	psi			300	300	300	300	300	300	150	125	100	75	75												
Aluminium/Brass/Stainless Steel Camlocks	Preformed Band Clamp	bar			10.34		17.23	17.23	17.23	17.23	10.34	8.62	0.98	5.17	5.17								(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest.			
	psi			150		250	250	250	250	250	150	125	100	75	75											
Aluminium/Brass/Stainless Steel Camlocks	HD Bolt Clamps	bar							17.23	17.23	17.23	10.34	8.62	0.98	5.17	5.17								(5) clamps on 3" & 4"; (4) clamps on 2" & 2-1/2"; (3) clamps on the rest; (ABL).		
	psi								250	250	250	150	125	100	75	75										
Claw Couplings	Claw Interlocking Clamp	bar	41.37	41.37	41.37		41.37	41.37	41.37	41.37	41.37	31.02	31.02	17.23		17.23								Must use mating RYCO Claw clamps with safety clip installed.		
		psi	600	600	600		600	600	600	600	600	600	450	450	250		250									

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

SAFETY AND TECHNICAL

HOSE ASSEMBLIES

We encourage you to share this information with anyone who may be effected by the selection, installation, maintenance or use of any hose assembly. Always use quality products to BE SAFE.

Hose assemblies must be inspected prior to each use. Worn out fittings, attachment devices, hose and accessory items must be replaced. Retaining and safety devices such as clips, cables or chains must be used. Clamps must be checked regularly to the specified torque found in the RYCO Industrial Product Technical Manual - Hydraulics. Under no circumstance should any coupling be disconnected while under pressure unless the coupling is specifically designed to do so. Disconnecting couplings under pressure could result in serious injury or death, and destruction of property and equipment.

FOR ALL HOSE ASSEMBLIES IN USE:

BEWARE

Hose assemblies can be dangerous when used improperly or in the wrong application. The maximum working pressure shown on the hose is not an indication of the working pressure of the assembly.

Based on the hose, fittings and attachment method used, all assemblies should be permanently marked with the designed working pressure and the intended media. The assembly working pressure should be permanently displayed.

Hose assemblies must be used for the intended service only. Never alter manufactured product or substitute component parts.

ELIMINATE

Eliminate hazardous conditions by inspecting, maintaining and testing hose assemblies.

RYCO recommends that all hose assemblies be tested in accordance with the hose manufacturer's specifications. The application determines the regularity of the re-testing schedule.

SECURE

Secure and inspect hose, fittings, clamping devices and safety accessories before each use. Never take for granted that the coupling or attachment devices are properly installed

ALWAYS

Always inspect and re-tighten the bolts of any bolt-style clamping device to the manufacturer's torque specifications.

FITTINGS

Hose and clamping devices that are worn out or damaged must be removed from service.

EDUCATE

Educate your employees about the proper use, care and potential hazards of hose assemblies. Contact RYCO if you have any questions on applications, use or assembly.

PRESSURE DROP IN RUBBER HOSES - WATER

The following tables of pressure drops and flow rates are based on experimental data and may be considered typical of most hoses. The data is based upon hoses laid out in a straight line and thus it must not be considered as an exact result that may be obtained at a given pressure. Variables such as hose fittings and bend increase the frictional losses and an estimate of their effect may be determined by adding an "equivalent length" to the hose length. Values of the equivalent length (Le) may be determined using the diameter (D) of the hose in the following relationships:

90° Swept Elbow	Le = 20D
90° Square Elbow	Le = 50D
45° Square Elbow	Le = 16D
Hose Coupling	Le = 05D

PRESSURE DROP (kPa PER 100 METRES) WATER @ 20°C THROUGH HOSE

FLOW RATE L/min	HOSE NOMINAL BORE mm													
	12.5	16	19	25	32	38	40	50	64	75	80	100	125	
25	1100	470	210	50	-	-	-	-	-	-	-	-	-	-
50	-	2440	770	200	90	30	-	-	-	-	-	-	-	-
100	-	-	2660	730	300	100	55	30	-	-	-	-	-	-
200	-	-	-	-	1030	405	285	95	25	-	-	-	-	-
300	-	-	-	-	-	900	650	210	65	20	-	-	-	-
400	-	-	-	-	-	-	1200	370	110	40	-	-	-	-
500	-	-	-	-	-	-	-	580	155	70	50	-	-	-
1000	-	-	-	-	-	-	-	-	575	230	180	55	-	-
2000	-	-	-	-	-	-	-	-	-	920	600	220	45	-
3000	-	-	-	-	-	-	-	-	-	2125	1400	490	100	-
4000	-	-	-	-	-	-	-	-	-	-	-	805	190	-
5000	-	-	-	-	-	-	-	-	-	-	-	1390	315	-

NOTE: (1) Pressure drop is directly proportioned to the length of hose.
(2) Friction is independent of pressure and proportional to velocity.

FLOW RATE OF WATER THROUGH HOSE

INLET PRESSURE (kPa)	VOLUMETRIC FLOWRATE OF WATER THROUGH 100M HOSE (LITRE/MINUTE)														
	HOSE INTERNAL DIAMETER (mm)														
	12.5	16	19	25	32	38	40	50	64	75	80	100	150	200	
150	15.5	31	48	102	181	299	359	639	1145	1701	2079	3969	11482	24239	
200	18.5	35	57	117	215	352	408	741	1342	2126	2457	4631	13466	28870	
300	24	42	71	157	272	438	499	922	1663	2717	3071	5670	16727	35749	
400	29.5	49	82	178	317	510	582	1081	1950	3189	3662	6710	19609	41675	
500	33	56	93	200	355	575	658	1221	2200	3544	4064	7560	22047	46967	
600	36	62	102	219	397	635	730	1349	2430	3936	4408	8269	24334	51739	
700	38	69	111	238	427	688	801	1467	2646	4253	4772	9025	26413	56228	
800	41	73	120	257	464	737	862	1576	2835	4631	5198	9686	28634	60480	
900	43	77	127	272	491	783	919	1686	3013	4938	5576	10348	30335	64260	
1000	45	82	134	291	522	828	972	1788	3187	5198	5906	11009	32036	67946	
1250	52	93	149	333	586	937	1111	2015	3595	5826	6804	12521	36052	76592	

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

TECHNICAL

WATER AND AIR FLOW RATES

PRESSURE DROP IN RUBBER HOSES - AIR

HOSE SIZE mm	PRESSURE DROP OF AIR THROUGH RUBBER HOSE							
	m ³ /min OF FREE AIR							
	0.50	1.00	1.25	1.50	2.00	2.75	3.50	4.25
12.5	249	855	1325	-	-	-	-	-
19	-	215	350	505	895	1725	2745	-
25	-	-	-	-	250	465	755	1100
32	-	-	-	-	80	100	175	285
38	-	-	-	-	-	45	75	135

HOSE SIZE mm	PRESSURE DROP OF AIR THROUGH RUBBER HOSE											
	m ³ /min OF FREE AIR											
	15	20	30	40	50	60	70	80	90	100	125	150
51	385	680	1530	2690	4230	-	-	-	-	-	-	-
63	160	270	565	1020	1630	2350	3170	4185	5270	-	-	-
76	-	-	215	330	520	745	1020	1335	1675	2035	3190	4590

FRICTIONAL PRESSURE LOSS

To obtain frictional pressure loss in kPa/100m, divide above values by the ratio of compression listed here:

kPa WP	RATIO OF COMPRESSION
400	3.9
500	4.9
600	5.9
700	6.9
800	7.85
900	8.85
1000	9.85

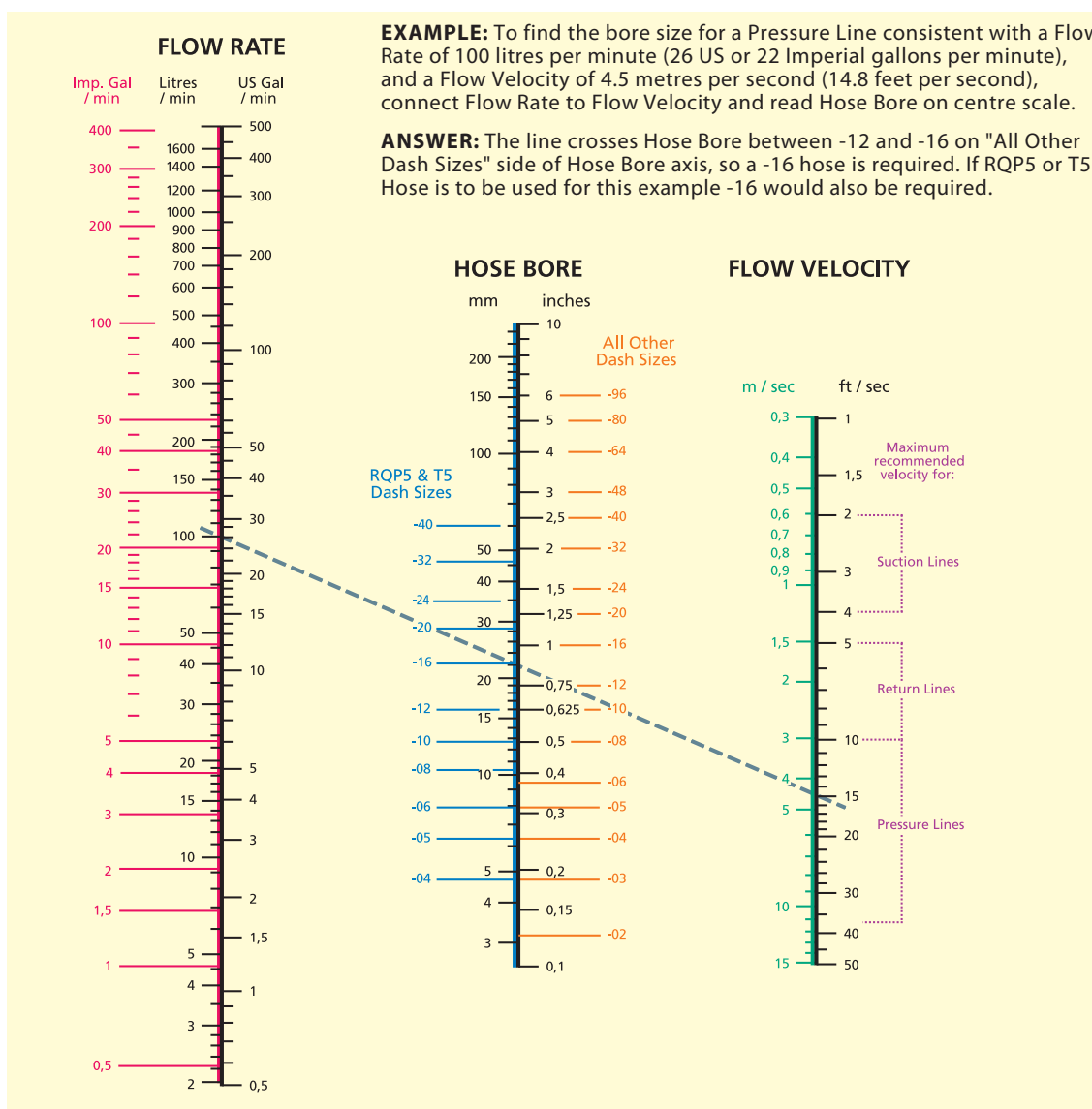
INDICATING FLOW CAPACITY OF HOSE ASSEMBLIES AT RECOMMENDED FLOW VELOCITIES

SELECTING THE RIGHT HOSE SIZE

With this nomograph, you can easily select the correct Hose ID size, Desired Flow Rate and Recommended Flow Velocity. If any two of these factors are known, the third can be determined.

TO USE THIS NOMOGRAPH:

1. Pick the two known values.
2. Lay a straightedge to intersect the two values.
3. Intersection on the third vertical line gives the value of that factor.



The velocity of the fluid should not exceed the range shown in the right hand column. When oil velocities are higher than recommended in the chart, turbulent flow occurs resulting in loss of pressure and excessive heating. For long hoses and/or high viscosity oil, or if the flow of hydraulic fluid is continuous, it is recommended to use figures at the lower end of the Maximum Recommended Velocity range. For short hoses and/or low viscosity oil, or if the flow of hydraulic fluid is intermittent or for only short periods of time, figures at the higher end of the Maximum Recommended Velocity range can be used.

A FURTHER EXAMPLE WILL HELP YOU TO USE THIS CHART:

Determine the hose size required to carry 40 litres of oil per minute and determine the velocity of the oil through the hose assembly. The assembly is to be used as a pressure line and the flow will be continuous.

Locate the flow, 40 litres per minute (left hand column), and velocity, 15 feet per second (right hand column), since 15 is the centre of the Pressure Lines Maximum recommended velocity range. Lay a straight edge across these two points. The straight edge crosses the centre column just above the -08 on "All Other Dash Sizes" side of Hose Bore axis. Keeping the straight edge on 40 litres per minute, cross the centre column at -08 and -10 sizes and read the Flow Velocity in the right hand column. It can be seen that using -08 Hose Size, Flow Velocity will be 18 feet per second, and for -10 Hose Size, Flow Velocity will be 11 feet per second. As the flow is continuous, -10 Hose Size is recommended.

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RECOMMENDATIONS FOR USE OF STEAM HOSES

Steam is a medium that causes potential hazard to the user and the material employed. The correct selection of hose, couplings and correct implementation of safety and maintenance regulations will reduce the risk of operator injury and prolong life of the hose.

CONSTRUCTION OF STEAM HOSES

Steam hose design has been subject to extensive research during the last few years. Improved materials and manufacturing processes has improved general performance.

The most common liner material is EPDM. Best results are obtained from compounds vulcanised with peroxidic curing agents. Peroxidic agents are somehow more difficult to process compared to sulphur curing agents. Due to higher degrees of cross linkage and reduced number of compound chemicals it pays back in better overall performance. Also of importance is the quality of carbon black fillers used in the compound. High grade carbon blacks with low humidity give optimum dissipation in the compound and reduce risk of pop corning.

Pin pricked covers are normally utilised to give additional venting of the hose and reduce risk of cover delamination.

Most steam hoses on the market are produced to British Standard, DIN - or ISO Standard.

GENERAL REMARKS ABOUT STEAM

In order to select the right steam hose the following information is required:

- Continuous or intermittent service.
- Steam temperature.
- Steam pressure.

The relation of pressure and temperature determines the real service conditions. Three conditions of steam can be identified:

- Superheated, dry steam.
- Saturated steam.
- Hot water.

The best performance can be obtained from a steam hose if pressure/temperature is identical or as near as possible to the saturated steam curve.

Saturated steam is present at the exact moment of transition from water into steam. Fluid and steam are in a thermodynamic equilibrium.

Superheated, dry steam is generated when at equal pressure saturated steam is further heated up or system pressure is reduced. Superheated steam can be generated at temperatures above 100°C, and theoretically even at lower temperatures. By variation of temperature or pressure only all three conditions of steam can be obtained.

Saturated, slightly wet steam has the effect of adding some "lubrication" to the hose liner. Superheated dry steam tends to "bake" the hose liner. The transition of saturated steam into superheated steam can happen unintentionally. Open end discharge, feeding small pipes into larger hose bore will effect in a rapid drop in pressure without reduction of temperature.

These changes in condition lead to 'popcorning' or heat ageing of the hose. Heat ageing is increased brittleness of the rubber and is caused by oxidation of oxygen under high temperatures with low humidity. This oxidation attack can roughly double with each 10°C increase in temperature. Roughly if a compound lasts at 20°C for 20 years, it will deteriorate at 150°C at 24 hours. The accelerated ageing of the rubber causes cracking and migration of plastifiers, thus inevitably reducing hose life.

Popcorning is caused by the fact that all rubbers are prone to permeability by gases. Steam in the gaseous phase penetrates into the liner. When steam is turned off, the penetrated steam condensates into microscopic droplets of water trapped in the rubber matrix. When steam is turned on again, an explosive increase of volume of the trapped water droplets is the result. This volume increase causes tiny explosions in the matrix, breaking away small bits of rubber. This volume increase reduces with increasing pressure.

Popcorning is accelerated also by frequent changes in temperature or shut on/off, causing frequent cycles of condensation and vaporisation or where the steam is wet. As hoses are used normally in quite some distance from the boiler, steam tends to be wet at point of entry to the hose. Also corrosive steam can cause problems in service. When using water to generate steam, the steam contains dissolved air, oxygen and carbon dioxide which end up in the steam as contaminants. At high temperatures these gases become highly corrosive. Carbon dioxide is acidic and attacks metals. Oxygen corrodes metals and oxidises rubbers. Corrosion of metals in both presence of oxygen and acids is forty times faster than with either alone. Thus boiler water treatment is an important factor when talking about hose life!

Another point is the use of steam hoses with hot water. Hot water can exist at a wide area of pressure temperatures ratios. However this does not imply that a steam hose rated for 200°C saturated steam may be used with hot water at 200°C.

Hot water at elevated temperature has a thermoplastic effect upon the hose liner. Tensile strengths, hardness and break elongation are reduced at high hot water temperatures, thus reducing dramatically the pressure carrying capacity of the hose. In practical terms, steel wire reinforced hoses can be safely used with hot water up to 90°C/8 Bar and 120°C/1 Bar.

GENERAL RECOMMENDATIONS ON STEAM HOSES IN PRACTICE

The points mentioned give rise to a number of points increasing safety and hose life:

- Always drain steam hose after use and allow it to dry, reducing the amount of condensation built up.
- Prolonged use with saturated steam will prolong hose life compared to situations where intermittent service with frequent shut offs is present. For example steam cleaning schedules should be organised in a way, that shut offs are reduced to practical minimum.
- Check that the bore size of the hose is as close as possible to the bore size of existing piping or valves, thus reducing the risk of sudden pressure drops.
- Run the hose as close as possible to the saturated steam curve, thus prolonging hose life.
- Avoid sharp bends in the hose causing reduction in bore size. Kinking the hose for a moment to shut off steam flow is a potential hazard.
- Make sure a selected steam hose is suitable for the actual working situation. For safety reasons rubber steam hoses should be used to a maximum of 18 bar/210°C saturated steam. For higher pressures/temperatures a metal hose or fixed piping should be employed.
- Make sure that hose cover quality is selected according to environmental conditions. EPDM or EPR cover compounds have poor oil resistance! Where prolonged contact with oils or hydrocarbons is encountered, utilise steam hose with HYPALON or CR covers.
- Make sure that in case of use with hot water, the temperature/pressure limits stated in these recommendations are not exceeded.
- Avoid installation of hoses in pipes, heat dissipation and venting are largely reduced.
- Follow assembly instructions for couplings and use whip checks where ever possible.
- Make sure that the hose and couplings are electrically bonded. Medium flow causes friction and thus static charge build up. This can cause hazards in explosive areas! It is recommended that the hose assembly is earthed to the wall of the tank when cleaning tanks which contain explosive media.
- If a steam hose is used for other media than steam, never use the same hose in a steam service again.
- Check couplings for sealing and corrosion; especially grip areas between tail and clamp and also around ground seal areas should be checked periodically for damages.
- Before using a hose, make a visible check for damage, such as blisters on the cover or visible wires. Remove damaged hose immediately from service.
- If popcorning occurs, small rubber pieces will be visible. This is a clear sign of liner deterioration. The hose is subject to continuous blockage by rubber particles, which can lead to dangerous hose bursts. These hoses must be withdrawn immediately from service.
- Inspection and pressure testing should take place at maximum intervals of 6 months, referring to the inspection and testing procedures laid out in the hose standard or user standards.

PROPER STEAM HOSE SELECTION LEADS TO PERFORMANCE, SAFETY, AND ECONOMIC BENEFITS

There are powerful economic and safety reasons for properly specifying and handling steam hose assemblies. Economically speaking, it is important to acknowledge that steam hose assemblies will fail prematurely if they are not properly selected and handled. Extreme pressures, temperatures, and stresses make eventual replacement inevitable. It makes strong economic sense to do everything possible to get the maximum life out of a steam hose assembly.

In safety terms, workers lives are at stake. Steam hoses routinely carry pressures of at least 250 psi and temperatures up to 450°F, with short-term spikes that can go much higher. Improper specifications or handling procedures can cause an accident with catastrophic consequences.

CAMLOCK SPECIFICATIONS

CAMLOCK PRESSURE RATINGS

DESIGN INFORMATION

APPLICATIONS

The Camlock coupling is a reliable quick connect coupling for use on hose, pipe, tubing and tanks conveying a wide variety of liquids, dry bulk materials and vapours including cooling water, fuels, chemicals, cosmetics, food products, adhesives, dyes, pharmaceuticals, pellets and much more.

HOW DOES IT WORK?

The coupling is connected by simply opening the coupler arms and inserting the adapter into the coupler. The two cam arms are then closed under normal hand pressure to complete the joint.

The RYCO range of Camlock couplings and adaptors are manufactured to interchange with all product produced to MIL Spec A-A 59326, which supersedes MIL-C-27487.

MAXIMUM PRESSURE RATINGS

Camlocks were mainly designed for use with liquids. Recommendations based on the use of mating RYCO fittings at ambient temperature 21°C (69.8°F) with standard Buna-N seal installed. For use at elevated temperature or other unusual operating conditions, consult your RYCO representative.

CAMLOCK MAXIMUM PRESSURE RATINGS									
CAMLOCK SIZES		ALUMINIUM		STAINLESS STEEL		BRASS		POLYPROPYLENE	
inch	mm	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR
1/2	15	150	10	150	10	150	10		
1/2-1	15-25							125	8.5
3/4-2	20-50	250	17	250	17	250	17		
1.1/4-2	32-50							100	7
2.1/2	65	150	10	150	10	150	10		
3	75							75	5
3	75	125	8.5	125	8.5	125	8.5		
4	100							50	3.5
4	100	100	7	100	7	100	7		
5-6	125-150	75	5	75	5	75	5		

WELDING OF CAMLOCKS

Couplings made using the diecast process must NOT be welded. Although Bronze Sand Cast Couplings made from the above materials may be welded using the appropriate welding equipment and compatible filler material, any modifications to the product will void your warranty. Welding the couplings changes the integrity of the coupling therefore RYCO will not accept any responsibility for modified couplings.

CLAW COUPLING SPECIFICATIONS

TYPE A (AUSTRALIAN PATTERN)

Materials Available:	SG Iron ISO 1083 Zinc Plated
Seal Material:	Natural Rubber (NR)
Temperature Range:	Natural Rubber (NR) Seal -29°C to 71°C (20.2°F to 159.8°F)
Working Pressure:	Standard Seal 500 psi
Size Range:	3/8" to 1.1/4" Hose end and Threaded
Thread Type:	Male and Female BSP

TYPE S (AUSTRALIAN PATTERN)

Materials Available:	SG Iron AS 1789 Zinc Plated
Seal Material:	Natural Rubber (NR)
Temperature Range:	Natural Rubber Seal -29°C to 71°C (20.2°F to 159.8°F)
Working Pressure:	3/8" to 2" 1000 psi, 3" 500 psi
Size Range:	3/8" to 3" Hose end and Threaded 2" Shouldered
Thread Type:	Male and Female BSP

TYPE B (AMERICAN PATTERN)

Materials Available:	Malleable Iron ASTM A47
Seal Materials:	Natural Rubber (NR)
Temperature Range:	Rubber Seal -29°C to 71°C (20.2°F to 159.8°F)
Working Pressure:	150 psi at 21°C (69.8°F)
Size Range:	3/8" to 1" Hose end and Threaded
Thread Type:	Male and Female BSP or NPT

NOTE: Air and Water Service Only

CLAW COUPLINGS

Claw Couplings provide quick, safe and reliable connections. Claw couplings are designed with a common or universal claw which enables differing hose sizes and nominal bores sizes to be connected. Claw couplings are most commonly used for conveying air and water, and are not be used for steam applications.

Common industry applications: underground and surface mining, mineral processing, compressor and air tool industries, hire companies.

All Claw Couplings comply with AS 2554 and AS 2660 – Hoses and Hose Assemblies for Air/Water.

LOCKING PINS

The use of a RYCO Safety Locking Pin is necessary to ensure that RYCO Type A and Type S Claw Couplings will not become accidentally disconnected. This ensures that the fittings are properly connected as the pin will not go through the holes in both couplings until the couplings are locked into place.

INDUSTRIAL PIPE THREADING INFORMATION

ABBREVIATION	SYSTEM NAME	COMPATIBILITY	SEAL METHOD*
BSPP	British Standard Pipe Parallel	Male BSPP with Female BSPP Female BSPP with Male BSPP Female BSPP with Male BSPT	Washer Washer Washer
BSPT	British Standard Pipe Taper Male	BSPT with Female BSPT Male BSPT with Female BSPP Female BSPT with Male BSPT Female BSPT not compatible with Male BSPP	Thread Washer Thread
GHT	Garden Hose Thread	Male GHT with Female GHT Female GHT with Male GHT Thread is same for all size hose Not compatible with other systems	Washer Washer
IPS	Iron Pipe Straight Thread	Generic Name for Straight Pipe Thread See NPSH for compatibility	Washer
IPT	Iron Pipe Thread	Generic Name for All Pipe Thread	
JIC	Joint Industries Council	Female JIC with Male JIC Male JIC with Female JIC	Mechanical
JSEAL™	RYCO Proprietary High Performance JIC	JSEAL™ with Male JIC Male JIC with JSEAL™	Convex Self-Aligning
NH or NST	American Standard Fire Hose Coupling Thread (National Hose thread also known as National Standard Thread)		Washer Washer
NPT	American Standard Taper Pipe Thread (National Pipe Tapered)	Male NPT with Female NPT Male NPT with Female NPTF Male NPT with Female NPSM Male NPT with Female NPSH Female NPT with Male NPT Female NPT with Male NPTF Female NPT not compatible with Male NPSM or Male NPSH	Thread Thread Washer Washer Thread Thread
NPTF	American Standard Taper Pipe Fuel Dryseal Thread	Male NPTF with Female NPTF Male NPTF with Female NPT Male NPTF with Female NPSM Male NPTF with Female NPSH Female NPTF with Male NPTF Female NPTF with Male NPT Female NPTF with Male NPSM or NPSH NOTE: NPTF with NPTF threads do not require sealant for the initial use. After that, sealant is required.	Thread Thread Washer Washer Thread Thread Not Compatible
NPSH	American Standard Straight Pipe for Hose Couplings (National Pipe Straight Hose)	Male NPSH with Female NPSH Female NPSH with Male NPSH Female NPSH with Male NPT Female NPSH with Male NPTF Female NPSH with Male NPSM	Washer Washer Washer Washer Washer
NPSM	American Standard Straight Mechanical Joint (National Pipe Straight Mechanical)	Male NPSM with Female NPSM Male NPSM with Female NPSH Female NPSM with Male NPSM Female NPSM with Male NPT Female NPSM with Male NPTF	Seal can be either mechanical or washer. Mating fittings must be of same type.
SIPT	Straight Iron Pipe Thread	Generic name for Straight Pipe Thread	Washer
TIPT	Tapered Iron Pipe Thread	Generic name for Tapered Pipe Thread	Thread

* Refer to page 247 for further information on Industrial Pipe Thread Sealing Information.

INDUSTRIAL PIPE THREAD SEALING INFORMATION

THREAD SEAL TYPE

- A seal is obtained by applying a sealant to the male thread before engaging.
- The sealant is used to prevent spiral leakage.
- Thread tape or paste is the preferred sealant in this type of application.

WASHER SEAL TYPE

- A seal is obtained when the male thread is tightened down onto the washer of the female assembly.
- The washer should be inspected regularly and replaced as needed to prevent leakage.

MECHANICAL SEAL TYPE

- A seal is obtained through metal-to-metal contact or metal-to-seal contact, ie JIC couplings have a metal-to-metal seal. Ground Joint couplings have a metal-to-seal contact.
- The couplings should be retightened as needed to prevent leakage.

THREAD SEALING

Sealing NPT threads can be an exasperating experience if certain techniques are not followed.

The following tips will help alleviate many common problems in thread sealing:

1. Always use some type of sealant (tape or paste) and apply sealant to male thread only. If using a hydraulic sealant, allow sufficient curing time before system is pressurised.
2. When using tape sealant, wrap the threads in a clockwise motion starting at the first thread and, as layers are applied, work towards the imperfect (vanishing) thread. If the system that the connection being made to cannot tolerate foreign matter (ie air systems), leave the first thread exposed and apply the tape sealant as outlined above.
3. When using paste sealant, apply to threads with a brush, using the brush to work the sealant into the threads. Apply enough sealant to fill in all the threads all the way around.
4. When connecting one stainless steel part to another stainless steel part that will require future disassembly, use a thread sealant that is designed for stainless steel. This stainless steel thread sealant is also useful when connecting aluminum to aluminum that needs to be disconnected in the future. These two materials gall easily, and if the correct sealant is not used, it can be next to impossible to disassemble.
5. When connecting parts made of dissimilar metals (ie steel and aluminum), standard tape or paste sealant performs satisfactory.
6. For sizes 2" and below, tape or paste performs satisfactorily. When using thread tape, four wraps (covering all necessary threads) is usually sufficient.
7. For sizes 2-1/2" and above, thread paste is recommended. If thread tape is used, eight wraps (covering all necessary threads) is usually sufficient. Apply more wraps if necessary.
8. For stubborn to seal threads, apply a normal coating of thread paste followed by a normal layer of thread tape.
9. For extremely stubborn to seal threads, apply a normal coating of thread paste followed by a single layer of gauze bandage followed by a normal layer of thread tape.

CAUTION! When this procedure is completed, the connection becomes permanent. Extreme measures will be necessary to disconnect these components. All other measures to seal the threads should be explored prior to use of this technique.

10. Over-tightening threads can be just as detrimental as insufficient tightening. For sizes 2" and below, hand tighten the components and, with a wrench, tighten 3 full turns. For sizes 2-1/2" and above, hand tighten the components and, with a wrench, tighten 2 full turns.

TECHNICAL

THREAD IDENTIFICATION

NOMINAL DIMENSIONS OF STANDARD PIPE THREADS

ODM Outside Diameter of the Male
IDF Inside Diameter of the Female
TPI Threads Per Inch

SIZE (inch)	PIPE OD	TAPERED THREADS		STRAIGHT THREADS											
		NPT	BSPT	NPSH			NPSM			NST (NH)			BSPP		
		TPI	TPI	TPI	ODM (MAX)	IDF (MIN)	TPI	ODM (MAX)	IDF (MIN)	TPI	ODM (MAX)	IDF (MIN)	TPI	ODM (MAX)	IDF (MIN)
1/8	.405	27	28	-	-	-	27	0.397	0.358	-	-	-	-	0.383	0.337
1/4	.504	18	19	-	-	-	18	0.526	0.468	-	-	-	-	0.516	0.450
3/8	.675	18	19	-	-	-	18	0.662	0.603	-	-	-	-	0.656	0.588
1/2	.840	14	14	14	0.8248	0.7395	14	0.823	0.747	-	-	-	-	0.825	0.733
3/4	1.050	14	14	14	1.0353	0.9500	14	1.034	0.958	8	1.375	1.2246	-	1.041	0.950
1	1.315	11.5	11	11.5	1.2951	1.1921	11.5	1.293	1.201	8	1.375	1.2246	11	1.309	1.193
1.1/4	1.660	11.5	11	11.5	1.6399	1.5369	11.5	1.638	1.546	-	-	-	11	1.650	1.534
1.1/2	1.900	11.5	11	11.5	1.8788	1.7758	11.5	1.877	1.785	9	1.990	1.8577	-	1.882	1.766
2	2.375	11.5	11	11.5	2.3528	2.2498	11.5	2.351	2.259	-	-	-	11	2.347	2.231
2.1/2	2.875	8	11	8	2.8434	2.6930	8	2.841	2.708	7.5	3.068	2.9104	11	2.960	2.844
3	3.500	8	11	-	-	-	8	3.467	3.334	6	3.623	3.5306	11	3.460	3.344
4	4.500	8	11	-	-	-	8	4.466	4.333	4	5.010	4.7111	-	4.450	4.334
4.1/2	-	-	-	-	-	-	-	-	-	4	5.760	5.4611	11	-	-
5	5.563	8	11	-	-	-	8	5.528	5.395	4	6.260	5.9602	11	5.450	5.359
6	6.625	8	11	-	-	-	8	6.585	6.452	4	7.025	6.7252	-	6.450	6.359
8	8.625	8	-	-	-	-	-	-	-	-	-	-	-	-	-
10	10.750	8	-	-	-	-	-	-	-	-	-	-	-	-	-
12	12.750	8	-	-	-	-	-	-	-	-	-	-	-	-	-

GHT (3/4") - 1.0625 ODM, 11-1/2 TPI

NOTE: Female NPT (Tapered Pipe) thread is not available on hose swivel nuts.

NORMAL ENGAGEMENT LENGTH OF NPT THREAD IN INCHES ("A")

SIZE (inch)	"A" (inch)
1/8	1/4
1/4	3/8
3/8	3/8
1/2	1/2
3/4	9/16
1	11/16
1-1/4	11/16
1-1/2	11/16
2	3/4
2-1/2	15/16
3	1
4	1-1/8
5	1-1/4
6	1-5/16
8	1-7/16
10	1-5/8
12	1-3/4

ANSI B16.5 FLANGES

(CLASS 150 AND CLASS 300)

NOMINAL BORE SIZE (inch)	CLASS	FLANGE OD (mm)	PCD (mm)	NO. OF BOLTS	BOLT (inch)	BOLT HOLE DIA (mm)	FLANGE THICKNESS (mm)
1/2	150	90	60.5	4	1/2	16	11.5
	300	95	66.5	4	1/2	16	14.5
3/4	150	100	70	4	1/2	16	13
	300	120	82.5	4	5/8	20	16
1	150	110	79.5	4	1/2	16	14.5
	300	125	89	4	5/8	20	17.5
1.1/4	150	120	89	4	1/2	16	16
	300	135	98.5	4	5/8	20	19.5
1.1/2	150	127	98.5	4	1/2	16	17.5
	300	155	114.5	4	3/4	22	21
2	150	150	120.5	4	5/8	20	19.5
	300	165	127	8	5/8	20	22.5
2.1/2	150	180	139.5	4	5/8	20	22.5
	300	190	19	8	3/4	22	22.5
3	150	190	152.5	4	5/8	20	24
	300	210	168.5	8	3/4	22	29
3.1/2	150	215	178	8	5/8	20	24
	300	230	184	8	3/4	22	30.5
4	150	230	190.5	8	5/8	20	24
	300	255	200	8	3/4	22	32
5	150	255	216	8	3/4	22	24
	300	280	235	8	3/4	22	35
6	150	280	241.3	8	3/4	22	25.5
	300	320	270	12	3/4	22	37
8	150	345	298.5	8	3/4	22	29
	300	380	330	12	7/8	26	41.5
10	150	405	362	12	7/8	26	30.5
	300	445	387.5	16	1	30	48
12	150	485	432	12	7/8	26	32
	300	520	451	16	1.1/8	33	51
14	150	535	476	12	1	30	35
	300	580	514.5	20	1.1/8	33	54
16	150	600	540	16	1	30	37
	300	650	571.5	20	1.1/4	36	57.5
18	150	635	578.5	16	1.1/8	33	40
	300	710	628.5	24	1.1/4	36	60.5
20	150	700	635	20	1.1/8	33	43
	300	775	689	24	1.1/4	36	63.5
24	150	815	749.5	20	1.1/8	33	48
	300	915	813	24	1.1/2	42	70
30	150	985	914	28	1.1/4	35	54
	300	1090	997	28	1.3/4	48	92
36	150	1170	1086	32	1.1/2	41	60.3
	300	1270	1168	32	2	54	105

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

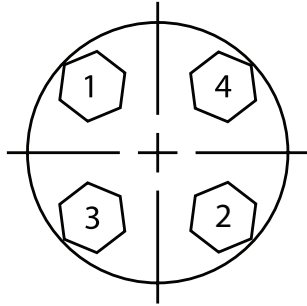
ACCESSORIES

TECHNICAL

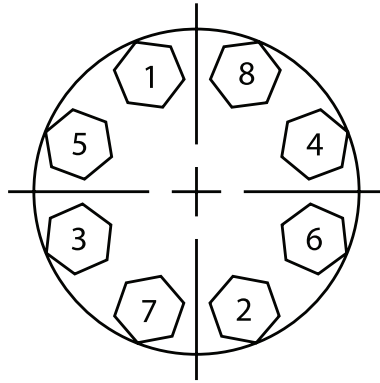
TECHNICAL

FLANGE MEASUREMENT GUIDE

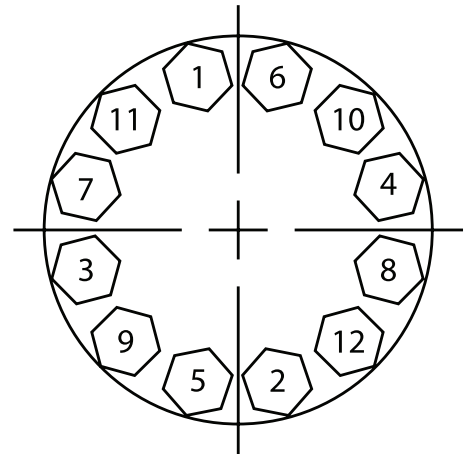
FLANGE BOLT TIGHTENING SEQUENCE



4 BOLT



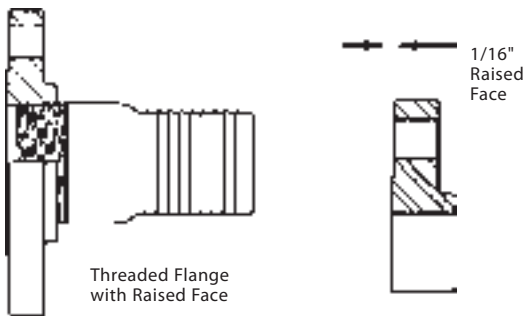
8 BOLT



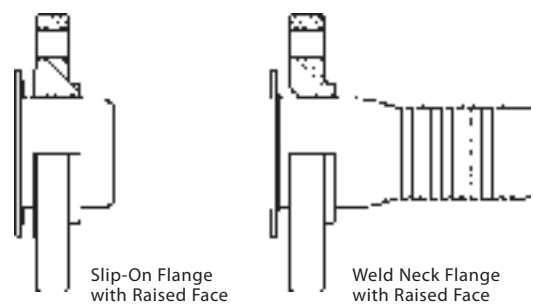
12 BOLT

FLANGE DIAGRAMS

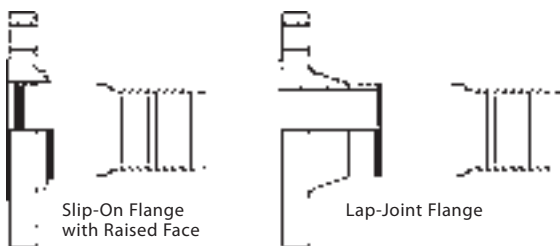
THREADED APPLICATIONS



FLOATING APPLICATIONS (Flange free to swivel)



WELDED APPLICATIONS



GENERAL PROPERTIES OF RUBBER AND THERMOPLASTICS

PROPERTIES OF RUBBER/PVC/THERMOPLASTIC HOSE

POLYMER	ETHYLENE PROPYLENE DIENE MONOMER	NATURAL	NEOPRENE	NITRILE	STYRENE BUTADIENE	VITON	SILICONE
ABBREVIATION	EPDM	NR	CR	NBR	SBR	FKM	SI
Hardness Range ° Shore A	20-90	30-98	25-90	20-98	25-95	60-90	30-85
Tensile Strength	B	A	B	B	B	C	D
Elongation	B	A	B	B	B	B	C
Abrasion	C	B	B	B	B	C	D
Tear	B	A	B	C	C	C	D
Compression Set @ 20°C	B	B	B	B	B	A	A
Compression Set @ 100°C	B	D	C	B-C	C	A	A
Compression Set @ 150°C	C	X	X	X	X	A	A
Denting	D	A	B	C	C	B	A
Service Temperature Range	-56 to 177°C (-70 to 350°F)	-56 to 82°C (-70 to 180°F)	-50 to 121°C (-60 to 250°F)	-55 to 100°C (-65 to 212°F)	-55 to 100°C (-65 to 212°F)	-40 to 287°C (-40 to 550°F)	-115 to 315°C (-178 to 600°F)
Maximum Continuous Service Temperature	100°C (212°F)	70°C (158°F)	90°C (194°F)	80°C (176°F)	80°C (176°F)	220°C (428°F)	220°C (428°F)
Ozone - UV	A	D	B	D	D	A	A
Resiliency	C	A	B	C	D	C	B
Acids	A	C	C	D	D	A	B
Alcohol	A	A	B	A	A	D	B
Aromatic Hydrocarbons	X	X	X	C	X	A	X
Caustics	A	B	B	C	C	B	B
Chlorine	D	D	D	D	D	A	C
Esters	A	A	C	D	A	A	C
Ketones	A	A	C	D	X	X	D
Oils	X	X	C	A	X	A	C
Petrol	X	X	C	A	X	A	D
Water	A	A	D	B	B	C	B

Ratings: A = Excellent; B = Above Average; C = Average; D = Fair; X = Unsuitable

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

RUBBERS USED IN HOSE

ASTM DESIGNATION D1418	COMMON NAME	COMPOSITION	GENERAL PROPERTIES
ABR	Acrylics	Acrylate-butadiene	Excellent for high temperature oil and air resistance. Poor cold flow and low temperature resistance. Not recommended for water service.
AEM	Ethylene acrylic	Ethylene methyl acrylate copolymer	Excellent high temperature, ozone, and oil resistance.
AU	Urethane	Polyester	Excellent abrasion, tear and solvent resistance, good aging. Poor high temperature properties.
BIIR	Bromobutyl	Brominated isobutylene-isoprene	Same general properties as Butyl (see IIR below).
BR	Polybutadiene	Butadiene	Excellent low temperature and abrasion properties. High resilience.
CIIR	Chlorobutyl	Chlorinated isobutylene-isoprene	Same general properties as Butyl (see IIR below).
CM	Chlorinated	Chlorinated	Good long-term resistance to UV and weathering. Good oil polyethylene polyethylene and chemical resistance. Excellent flame resistance. Good low temperature impact resistance.
CO	Epichlorohydrin Rubber	Polychloromethyl oxirane	Excellent oil and ozone resistance. Good flame resistance and low permeability to gases. Fair low temperature properties.
CR	Neoprene	Polychloroprene	Good weathering resistance, flame retarding. Moderate resistance to petroleum based fluids. Good physical properties.
CSM	Hypalon	Chlorosulfonyl-Polyethylene	Excellent ozone, weathering and acid resistance. Good abrasion and heat resistance. Good resistance to petroleum-based fluids.
EAM	Ethylene vinyl	Ethylene vinyl acetate	Excellent high temperature and ozone resistance. Good acetate copolymer resistance to petroleum-based fluids as vinyl acetate content increases.
ECO	Epichlorohydrin copolymer	Ethylene oxide and chloromethyloxirane	Excellent oil and ozone resistance. Fair flame resistance and low permeability to gases. Good low temperature properties.
EPDM	Ethylene Propylene Rubber	Ethylene-propylene diene-terpolymer	Excellent ozone, chemical and aging characteristics. Good heat resistance. Poor resistance to petroleum-based fluids.
EPM	Ethylene Propylene Rubber	Ethylene-propylene copolymer	Excellent ozone, chemical and aging characteristics. Good heat resistance. Poor resistance to petroleum-based fluids.
EU	Urethane	Polyether	Excellent abrasion, tear and solvent resistance, good aging. Poor high temperature properties.
FKM	Fluoroelastomer	Fluorocarbon rubber	Excellent high temperature resistance, particularly in air or oil. Very good chemical resistance.
HNBR	Hydrogenated nitrile	Hydrogenated acrylonitrile-butadiene	Excellent high temperature and oil resistance.
IIR	Butyl	Isobutylene-isoprene	Very good weathering resistance. Low permeability to air. Good physical properties. Poor resistance to petroleum-based fluids.
IR	Polyisoprene	Polyisoprene, synthetic	Same properties as natural rubber (see NR below).
MQ	Silicone	Dimethylpolysiloxane	Excellent high and low temperature resistance. Fair physical properties.
NBR	Nitrile	Acrylonitrile-butadiene	Excellent resistance to petroleum-based fluids. Moderate resistance to aromatics. Good physical properties.
NR	Natural rubber	Polyisoprene, Natural	Excellent physical properties including abrasion and low temperature resistance. Poor resistance to petroleum-based fluids.
SBR	SBR	Styrene-butadiene	Good physical properties, including abrasion resistance. Poor resistance to petroleum-based fluids.
T	Thiokol	Organic polysulfide	Outstanding solvent resistance and weathering resistance. Other properties poor.
XLPE	Cross-linked polyethylene	Polyethylene and cross linking agent	Excellent chemical resistance with good heat and electrical properties.
XNBR	Carboxylated nitrile	Carboxylated acrylonitrile-butadiene	Excellent oil and abrasion resistance.

GENERAL PROPERTIES OF RUBBER AND THERMOPLASTICS

PLASTICS USED IN HOSE

ASTM DESIGNATION D1600	COMMON NAME	COMPOSITION	GENERAL PROPERTIES
PA	Nylon	Polyamide	Good abrasion, chemical and fatigue resistance. Good long term resistance to high temperature. Low gas permeation and low coefficient of friction.
PE	Polyethylene	Polyethylene	Excellent dielectric properties. Excellent resistance to water, acids, alkalis and solvents. Good abrasion and weathering resistance.
	UHMWPE	Ultra high molecular weight polyethylene	Excellent resistance to a broad range of chemicals, excellent abrasion resistance.
PVC	PVC	Polyvinyl chloride	Good weathering, moisture and flame resistance. General resistance to alkalis and weak acids. Good abrasion resistance.
	Polyester	Thermoplastic polyester resin	Good flex fatigue and low temperature properties. High resistance to deformation. Good resistance to abrasion, chemicals, hydraulic fluids and aromatic fuels.
	Thermoplastic Rubber	Thermoplastic polyolefins and block copolymers of styrene and butadiene	Good weather and aging resistance. Good for water and to dilute acids and bases.
PTFE	Fluoropolymer	Fluorocarbon resin	Excellent high temperature properties and chemical resistance.

RUBBER HOSE MANUFACTURING TOLERANCES

RIGID MANDREL BUILT HOSE					
HOSE SIZE INTERNAL DIAMETER		TOLERANCE (±, mm)			
inch	mm	I.D.		O.D.	

1/2" to 1"	12mm to 25mm	-0.5	+0.5	-1.0	+1.0
1.1/8" to 2"	28mm to 51mm	-0.5	+0.5	-1.5	+1.5
2.1/8" to 3.1/2"	54mm to 89mm	-0.5	+1.0	-2.0	+2.0
4" to 8"	102mm to 214mm	-0.5	+1.5	-2.5	+2.5
10" to 12"	252mm to 305mm	-0.5	+1.5	-3.0	+3.0
Over 12"	Over 305mm	-0.5	+1.5	-3.5	+3.5

EXTRUSION BUILT HOSE					
HOSE SIZE INTERNAL DIAMETER		TOLERANCE (±, mm)			
inch	mm	I.D.		O.D.	

1/8" to 5/8"	3mm to 15mm	-0.5	+0.5	-0.5	+0.5
3/4" to 1"	19mm to 25mm	-0.75	+0.75	-0.75	+0.75
1.1/4" to 2"	32mm to 51mm	-1.0	+1.0	-1.5	+1.5

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

TECHNICAL

CHEMICAL COMPATIBILITY CHART

CHEMICAL RESISTANCE CHART FOR RUBBER HOSE

KEY TO CHEMICAL GUIDE

A - Recommended, little or no effect on tube compound, suitable for continuous service.

B - Recommended, minor effect on tube compound may be suitable for continuous service, suitable for intermittent service.

C - Questionable, moderate to severe effect on tube, may be suitable for limited applications.

D - No data available, but not expected to perform better than rated compounds.

X - Not recommended.

CHEMICAL	EPDM	HYALON	NATURAL (NR)	NITRILE (NBR)	NEOPRENE	STYRENE BUTADIENE (SBR)	VITON (FKM)	CROSS LINKED POLYETHYLENE (XLPE)	CPE
ACETALDEHYDE 50%	B	C	B	X	C	C	X	A	D
ACETIC ACID-GLACIAL	B	C	B	C	X	B	C	A	A
ACETIC ACID 30%	B	B	B	B	A	B	B	A	A
ACETIC ANHYDRIDE	C	A	B	C	B	B	X	A	A
ACETONE	B	B	C	X	C	C	X	A	A
ACETYL CHLORIDE	X	X	X	X	X	X	A	B	A
ACETYLENE	B	B	B	A	B	B	A	A	D
ADIPIC ACID	B	D	A	A	A	A	D	D	D
ALUMINIUM ACETATE	B	A	A	B	B	B	X	A	A
ALUMINIUM CHLORIDE	B	A	A	A	A	A	A	A	A
ALUMINIUM FLUORIDE	B	A	B	A	A	A	A	A	D
ALUMINIUM NITRATE	B	A	A	A	A	A	A	A	A
ALUMINIUM SULFATE	B	A	A	A	A	A	A	A	A
AMMONIA ANHYDROUS	B	B	X	B	A	X	X	A	A
AMMONIA GAS (COLD)	B	A	A	A	A	A	A	X	AD
AMMONIA GAS (HOT)	C	B	X	X	B	X	X	A	D
AMMONIUM CARBONATE	B	D	A	X	A	A	D	D	A
AMMONIUM CHLORIDE	B	A	A	A	A	A	A	A	A
AMMONIUM HYDROXIDE	B	A	X	X	A	X	B	A	A
AMMONIUM NITRATE	B	A	C	A	A	B	D	A	D
AMMONIUM NITRITE	B	A	A	A	A	A	D	A	D
AMMONIUM PHOSPHATE	B	A	A	A	A	A	D	A	A
AMMONIUM SULFATE	B	A	A	A	A	A	X	A	A
AMYL ACETATE	X	X	X	X	X	X	X	A	C
AMYL ALCOHOL	B	A	B	B	B	B	B	A	A
ANILINE	B	C	X	X	X	X	C	A	B
ANILINE DYNES	B	B	B	X	B	B	B	A	B
ANILINE HYDROCHLORIDE	C	X	B	B	X	X	B	A	D
ANIMAL FATS	C	B	X	A	B	X	A	A	A
AQUA REGIA	X	A	X	X	X	X	B	X	B
ARSENIC ACID	B	A	B	A	A	A	A	A	A
ARSENIC TRICHLORIDE	X	D	X	A	A	D	D	X	D
ASPHALT	D	B	X	B	B	X	A	X	D
BARIUM CHLORIDE	B	A	A	A	A	A	A	A	A
BARIUM SULFATE	B	A	A	A	A	A	A	A	A
BARIUM SULPHIDE	B	A	A	A	A	B	A	A	A
BEER	B	A	A	A	A	A	A	D	A
BENZENE	X	X	X	X	X	X	A	A	X
BENZYL ALCOHOL	B	B	X	X	B	X	A	A	D
BENZYL BENZOATE	C	X	X	X	X	X	X	A	D

CHEMICAL COMPATIBILITY CHART

CHEMICAL	EPDM	HYALON	NATURAL (NR)	NITRILE (NBR)	NEOPRENE	STYRENE BUTADIENE (SBR)	VITON (FKM)	CROSS LINKED POLYETHYLENE (XLPE)	CPE
BENZYL CHLORIDE	X	X	X	X	X	X	A	A	X
BENZOIC ACID	X	X	X	C	X	X	A	A	A
BORDEAUX MIXTURE	B	A	B	B	B	B	A	A	D
BORIC ACID	B	A	A	A	A	A	A	A	A
BRINE	B	A	A	A	A	A	A	A	A
BROMINE - ANHYDROUS	X	X	X	X	X	X	A	X	D
BROMINE TRIFLUORIDE	X	X	X	X	X	X	X	X	D
BROMINE WATER	B	A	X	X	X	X	A	X	D
BROMOTOLUENE	X	X	X	X	X	X	A	C	X
BUNKER OIL	X	X	X	A	X	X	A	A	D
BUTANE	X	B	X	A	A	X	A	A	B
BUTADIENE	X	C	X	X	X	X	A	A	D
BUTTER	B	B	X	A	B	X	A	A	B
BUTYL ACETATE	X	X	X	X	X	X	X	A	B
BUTYL ALCOHOL	C	A	A	A	A	A	A	A	A
BUTYL AMINE	B	X	X	C	X	X	X	D	B
BUTYL BENZOATE	C	X	C	X	X	B	A	A	D
BUTYL CELLOSOLVE	B	B	X	C	C	X	X	A	A
BUTYL STEARATE	X	X	X	B	X	X	A	A	B
BUTYRALDEHYDE	C	X	X	X	C	X	X	A	B
CALCIUM ACETATE	B	B	A	B	B	X	X	A	A
CALCIUM BISULFITE	X	A	X	X	A	X	A	A	A
CALCIUM CHLORIDE	B	A	A	A	A	A	A	A	A
CALCIUM HYDROXIDE	B	A	A	A	A	A	A	A	A
CALCIUM HYPOCHLORITE	B	A	C	B	C	C	A	C	A
CALCIUM NITRATE	A	A	A	A	A	A	A	A	
CALCIUM SULFIDE	B	A	B	A	A	B	A	A	A
CARBITOL	C	B	B	B	B	B	B	A	A
CARBONIC ACID (PHENOL)	C	X	X	X	C	X	A	A	A
CARBON BISULFIDE	X	X	X	C	X	X	A	D	C
CARBON DIOXIDE	C	B	B	A	B	B	A	A	D
CARBONIC ACID	B	A	A	B	A	B	A	A	A
CARBON MONOXIDE	B	B	B	A	B	B	A	A	D
CARBON TETRACHLORIDE	X	X	X	C	X	X	A	A	X
CASTOR OIL	C	B	A	A	A	A	A	A	A
CELLOSOLVE	C	X	X	X	X	X	C	A	D
CELLOSOLVE ACETATE	C	X	X	X	X	X	X	A	D
CHLORINE (DRY)	X	B	X	X	C	X	A	C	D
CHLORINE (WET)	X	C	X	X	C	X	A	C	D
CHLORINE DIOXIDE	X	C	X	X	X	X	A	C	D
CHLOROACETONE	B	C	X	X	C	X	X	A	X
CHLOROACETIC ACID	B	A	X	X	X	X	X	A	D
CHLOROBENZENE	X	X	X	X	X	X	A	A	X
CHLOROBUTADIENE	X	X	X	X	X	X	A	A	D
CHLOROFORM	X	X	X	X	X	X	A	B	X
CHLOROTOLUENE	X	X	X	X	X	X	A	B	X
CHROME PLATING SOLUTIONS	C	X	X	X	X	X	A	D	D
CHROMIC ACID	B	B	X	X	C	X	A	A	A
CITRIC ACID	B	A	A	A	A	A	A	A	D

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

TECHNICAL

CHEMICAL COMPATIBILITY CHART

CHEMICAL	EPDM	HYPALON	NATURAL (NR)	NITRILE (NBR)	NEOPRENE	STYRENE BUTADIENE (SBR)	VITON (FKM)	CROSS LINKED POLYETHYLENE (XLPE)	CPE
COBALT	B	A	A	A	A	A	A	A	D
COCONUT OIL	X	C	X	A	B	X	A	A	D
COD LIVER OIL	B	B	X	A	B	X	A	A	D
COKE OVEN GAS	X	C	X	X	X	X	A	A	D
COPPER ACETATE	B	B	A	B	B	X	X	A	D
COPPER CHLORIDE	B	B	A	A	B	A	A	A	B
COPPER CYANIDE	B	A	A	A	A	A	A	A	D
COPPER SULFATE	B	A	B	A	A	B	A	A	A
CORN OIL	X	B	X	A	C	X	A	A	B
COTTONSEED OIL	C	B	X	A	B	X	A	A	B
CREOSOTE (COAL TAR)	X	X	X	A	B	X	A	A	D
CRESOL	X	X	X	X	C	X	A	A	A
CRESYLIC ACID	X	X	X	X	C	X	A	A	D
CUMENE	X	X	X	X	X	X	A	A	C
CYCLOHEXANE	X	X	X	A	C	X	A	A	A
CYCLOHEXANOL	X	B	X	C	A	X	A	A	A
CYCLOHEXANONE	B	X	X	X	X	X	X	A	B
P-CYMENE	X	X	X	X	X	X	A	A	X
DECALIN	X	X	X	X	X	X	A	A	X
DENATURED ALCOHOL	B	A	A	A	A	A	A	A	A
DETERGENT SOLUTION (NON-HYDROCARBON)	B	B	B	A	B	B	A	A	B
DIACETONE	B	X	X	X	X	X	X	A	D
DIACETONE ALCOHOL	B	B	X	X	B	X	X	A	A
DIBENZYL ETHER	C	X	X	X	C	X	X	A	C
DIBUTYL AMINE	B	X	X	X	X	X	X	A	A
DIBUTYL ETHER	X	X	X	X	C	X	C	A	A
DIBUTYL PHTHALATE	C	X	X	X	X	X	C	A	C
DIBUTYL SEBECATE	C	X	X	X	X	X	B	A	B
DICHLOROBENZENE	X	X	X	X	X	X	A	A	X
DIESEL OIL	X	C	X	A	C	X	A	A	D
DIETHLAMINE	B	C	B	B	B	B	X	A	B
DIETHALMINE BENZENE	X	X	X	X	X	X	A	A	X
DIETHYL ETHER	X	C	X	X	C	X	X	A	A
DIETHYLENE GLYCOL	B	A	A	A	A	A	A	A	A
DIETHYL SEBECATE	C	B	X	B	X	X	B	A	B
DIISOBUTYLENE	B	X	X	B	X	X	A	A	D
DIISOPROPYL BENZENE	X	X	X	X	X	X	A	A	D
DISOPROPYL KETONE	B	X	X	X	X	X	X	A	D
DIMETHYL FORMAMIDE	B	X	X	B	C	X	X	A	D
DIMETHYL PHTHALATE	B	X	X	X	X	X	B	A	A
DINITROTOLUENE	X	X	X	X	X	X	A	A	X
DIOCTYL PHTHALATE	C	X	X	C	X	X	B	A	C
DIOCTYL SEBECATE	C	X	X	X	X	X	B	A	X
DIPENTENE	X	X	X	B	X	X	A	A	B
PIPHENYL (PHENYLBENZENE)	X	X	X	X	X	X	A	A	D
DOWTHERM OIL	X	X	X	X	X	X	A	A	C
DRY CLEANING FLUIDS	X	X	X	C	X	X	A	D	D
ETHANE	X	B	X	A	B	X	A	A	D
ETHANOLAMINE	B	C	B	B	B	B	X	A	A

CHEMICAL COMPATIBILITY CHART

CHEMICAL	EPDM	HYALON	NATURAL (NR)	NITRILE (NBR)	NEOPRENE	STYRENE BUTADIENE (SBR)	VITON (FKM)	CROSS LINKED POLYETHYLENE (XLPE)	CPE
ETHYL ACETATE	B	X	X	X	C	X	X	A	B
ETHYL ACETOACETATE	B	X	C	X	C	C	X	A	A
ETHYL ALCOHOL	B	A	A	A	A	A	C	A	A
ETHYL BENZENE	X	X	X	X	X	X	A	A	X
ETHYL BENZOATE	B	X	A	X	X	A	A	B	X
ETHYL CELLULOSE	C	B	B	B	B	B	X	A	D
ETHYL CHLORIDE	X	X	X	A	X	X	A	A	D
ETHYL ETHER	X	X	X	C	C	X	X	A	A
ETHYL FORMATE	C	B	X	X	B	X	A	A	A
ETHYL PENTOCHLORO-BENZENE	X	X	X	X	X	X	A	X	X
ETHYL SILICATE	B	B	B	A	A	B	A	A	A
ETHYLENE	C	-	C	A	C	C	A	D	D
ETHYLENE CHLORIDE	X	X	X	X	X	X	A	A	D
ETHYLENE CHLOROHYDRIN	C	B	B	X	B	B	A	A	D
ETHYLENE DIAMINE	B	B	A	A	A	B	X	A	B
ETHYLENE DICHLORIDE	X	X	X	X	X	X	A	A	C
ETHYLENE GLYCOL	B	A	A	A	A	A	A	A	A
ETHYLENE TRICHLORIDE	X	X	X	X	X	X	A	A	D
FERRIC CHLORIDE	B	A	A	A	A	A	A	A	A
FERRIC NITRATE	B	A	A	A	A	A	A	A	A
FERRIC SULFATE	B	A	A	A	A	A	A	A	A
FISH OIL	X	D	X	A	X	X	A	A	D
FLUOROBORIC ACID	B	A	A	A	A	A	D	A	A
FLUOROBENZENE	X	D	X	X	X	X	A	A	D
FLUOROLUBE	B	A	B	A	B	C	B	D	D
FLUOSILIC ACID	C	A	B	A	B	C	A	B	A
FORMALDEHYDE	B	A	B	C	B	B	X	A	A
FORMIC ACID	B	X	B	B	A	A	C	B	A
FREON 12	C	A	B	A	A	A	B	A	A
FREON 13	A	A	A	A	A	A	A	A	A
FREON 21	X	X	X	A	X	X	X	A	X
FREON 22	B	A	B	A	A	A	X	A	A
FREON 114	B	A	A	A	A	A	B	A	D
FUEL OIL	X	B	X	A	B	X	A	A	A
FURTURAL	B	C	X	X	C	X	X	A	A
GALLIC ACID	B	B	A	B	B	B	A	A	D
GASOLINE	X	C	X	A	C	X	A	A	D
GELATIN	B	A	A	A	A	A	A	A	D
GLUCOSE	B	A	A	A	A	A	A	A	D
GLUE	B	A	B	A	A	B	A	A	A
GLICERINE	B	A	A	A	A	A	A	A	A
GLYCOLS	B	A	A	A	A	A	A	A	D
GREEN SULFATE LIQUOR	B	B	B	B	B	B	A	A	B
HEXANE	X	B	X	A	B	X	A	B	B
HELIX ALCOHOL	X	B	B	A	B	B	A	A	A
HYDRAULIC ALCOHOL	X	B	X	A	B	X	A	A	A
HYDROBROMIC ACID	B	A	A	X	X	X	A	A	A
HYDROBROMIC ACID (HOT 37%)	X	X	X	X	X	X	B	A	D
HYDROCHLORIC ACID	B	A	B	C	B	B	A	A	A

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

TECHNICAL

CHEMICAL COMPATIBILITY CHART

CHEMICAL	EPDM	HYPALON	NATURAL (NR)	NITRILE (NBR)	NEOPRENE	STYRENE BUTADIENE (SBR)	VITON (FKM)	CROSS LINKED POLYETHYLENE (XLPE)	CPE
HYDROCYANIC ACID	B	A	B	B	B	B	A	C	D
HYDROFLUORIC ACID (CONC. HOT)	B	C	X	X	X	X	C	A	D
HYDROFLUORIC ACID (CONC. COLD)	B	A	X	X	X	X	A	A	A
HYDROFLUORIC ACID (ANHYDROUS)	B	A	X	X	X	X	X	A	D
HYDROFLUOSILIC ACID	C	A	B	A	B	C	A	D	A
HYDROGEN GAS	B	A	B	A	A	A	A	A	A
IODINE	X	A	X	X	X	X	X	A	A
ISOBUTYL ALCOHOL	B	A	A	B	A	B	A	A	A
ISOCTANE	X	B	X	A	B	X	A	A	B
ISOPROPYL ACETATE	C	X	X	X	X	X	X	A	D
ISOPROPYL ALCOHOL	B	A	A	B	B	B	A	A	A
ISOPROPYL CHLORIDE	X	X	X	X	X	X	A	A	D
ISOPROPYL ETHER	X	C	X	B	C	X	X	A	D
KEROSENE	X	C	X	A	B	X	A	A	A
LACTIC ACID (COLD)	B	A	A	A	A	A	A	A	D
LACTIC ACID (HOT)	B	A	X	X	X	X	A	A	D
LARD	C	X	X	A	B	X	A	A	A
LAVENDER OIL	X	X	X	B	X	X	A	B	D
LEAD ACETATE	B	X	A	B	A	X	X	A	A
LEAD NITRATE	B	A	A	A	A	D	A	A	A
LEAD SULFAMATE	B	A	B	B	A	B	A	A	D
LINSEED OIL	X	B	X	A	B	X	A	A	A
LIQUEFIED PETROLEUM GAS	X	B	X	A	B	X	A	A	B
LUBRICATING OILS	X	B	X	A	B	X	A	A	A
LYE	B	A	B	B	B	B	B	D	A
MAGNESIUM CHL	B	A	A	A	A	A	A	A	A
MAGNESIUM HYDROXIDE	B	A	B	B	A	B	A	A	A
MAGNESIUM SULFATE	B	A	B	A	A	B	A	A	A
MALEIC ACID	B	X	C	X	C	C	A	B	D
MALEIC ANHYDRIDE	C	A	C	X	C	C	X	D	D
MALIC ACID	B	B	C	A	C	C	A	D	D
MERCURY	B	A	A	A	A	A	A	A	A
MESITYL OXIDE	C	X	X	X	X	X	X	A	B
METHANE	X	B	X	A	B	X	B	A	B
METHYL ACETATE	B	X	C	X	B	C	X	A	A
METHYL ALCOHOL	B	A	A	A	A	A	X	A	A
METHYL BROMIDE	C	X	X	B	X	X	A	D	D
METHYL BUTYL KETONE (PROPYLACETONE)	B	X	X	X	X	X	X	A	D
METHYL CELLOSOLVE	C	B	X	B	B	X	X	A	A
METHYL CHLORIDE	X	X	X	X	X	X	A	B	X
METHYL ETHYL KETONE (MEK)	C	X	X	X	C	X	X	A	B
METHYL ISOBUTYL KETONE	C	X	X	X	X	X	X	A	B
METHYL OLEATE	C	X	X	X	X	X	B	A	D
MILK	B	A	A	A	A	A	A	A	A
MINERAL OIL	X	B	X	A	B	X	A	A	A
MONOCHLOROBENZEN	X	X	X	X	X	X	A	B	D
MONOETHANOLAMINE	B	X	B	X	X	B	X	A	D
MONOMETHYLETHER	X	B	X	A	C	X	A	D	B
MONOVINYL ACETYLENE	B	B	B	A	B	B	A	D	B

CHEMICAL COMPATIBILITY CHART

CHEMICAL	EPDM	HYALON	NATURAL (NR)	NITRILE (NBR)	NEOPRENE	STYRENE BUTADIENE (SBR)	VITON (FKM)	CROSS LINKED POLYETHYLENE (XLPE)	CPE
NAPHTHA	X	X	X	B	C	X	A	A	A
NAPHTHALENE	X	X	X	X	X	X	A	A	A
NAPHTHENIC ACID	X	X	X	B	X	X	A	A	A
NATURAL GAS	X	A	B	A	A	B	A	A	A
NICKEL ACETATE	B	X	A	B	B	X	X	A	D
NICKEL CHORIDE	B	A	A	A	A	A	A	A	A
NICKEL SULFATE	B	A	B	A	A	B	A	A	A
NITRIC ACID (CONC)	X	B	X	X	X	X	C	B	X
NITRIC ACID (DILUTE)	X	A	X	X	B	X	A	A	A
NITROBENZENE	B	X	X	X	X	X	B	A	C
NITROETHANE	C	B	B	X	C	B	X	A	A
NITROGEN	B	A	A	A	A	A	A	A	A
OCTACHLOROFULUENE	X	X	X	X	X	X	A	D	X
OCTYL ALCOHOL	X	B	B	B	A	B	A	A	A
OLEIC ACID	X	C	X	C	C	X	B	A	A
OLEUM	B	B	X	B	C	X	A	D	D
OLIVE OIL	C	B	X	A	B	X	A	A	B
O-DICHLOROBENZENE	X	X	X	X	X	-	A	D	X
OXALIC ACID	B	B	B	B	B	B	A	A	A
OXYGEN COLD	B	A	B	B	A	B	A	A	A
OZONE	B	A	X	X	C	X	A	A	A
PALMITRIC ACID	C	C	B	A	B	B	A	B	A
PEANUT OIL	X	B	X	A	C	X	A	A	A
PERCHLORIC ACID	C	B	X	X	B	X	A	A	D
PERCHLOROETHYLENE	X	X	X	B	X	X	A	A	X
PETROLEUM	X	B	X	A	B	X	A	A	A
PHENOL (CARBOLIC ACID)	B	B	X	X	C	D	A	A	A
PHENYLBENZENE	X	X	X	X	X	X	A	D	X
PHENYL HYDRAZINE	C	X	A	X	X	B	A	A	X
PHORONE	X	X	X	X	X	X	X	A	D
PHOSPHORIC ACID 20%	B	A	B	B	B	B	A	A	A
PHOSPHORIC ACID 80%	B	B	C	X	B	C	A	A	A
PHOSPHORUS TRICHLORIDE	B	X	X	X	X	X	A	D	X
PICRIC ACID	B	B	B	B	A	B	A	A	B
PINE OIL	X	X	X	A	X	X	A	A	A
POLYVINYL ACETATE EMULSION	B	B	B	D	B	X	A	D	D
POTASSIUM ACETATE	B	A	A	B	B	X	X	A	A
POTASSIUM CHLORIDE	B	A	A	A	A	A	A	A	A
POTASSIUM CUPRO CYANIDE	A	A	A	A	A	A	A	A	A
POTASSIUM CYANIDE	B	A	A	A	A	A	A	A	A
POTASSIUM DICHROMATE	B	A	B	A	A	B	A	B	A
POTASSIUM HYDROXIDE	B	A	B	B	B	B	X	A	A
POTASSIUM NITRATE	B	A	A	A	A	A	A	A	A
POTASSIUM SULFATE	B	B	B	A	A	A	A	A	A
PROPANE	X	B	X	A	B	X	A	A	B
PROPYL ACETATE	C	X	X	X	X	X	X	A	B
PROPYL ALCOHOL	B	A	A	A	A	A	A	A	A
PROPYL NITRATE	B	B	X	X	X	X	XE	X	B
PROPYLENE	X	X	X	X	X	X	A	A	A

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

TECHNICAL

CHEMICAL COMPATIBILITY CHART

CHEMICAL	EPDM	HYPALON	NATURAL (NR)	NITRILE (NBR)	NEOPRENE	STYRENE BUTADIENE (SBR)	VITON (FKM)	CROSS LINKED POLYETHYLENE (XLPE)	CPE
PYRANOL (TRANSFORMER OIL)	X	C	X	A	B	A	A	X	A
PYRIDINE	B	B	X	X	X	X	X	A	D
SAL AMMONIAC	B	A	A	A	A	A	A	A	A
SALICYCLIC ACID	B	-	A	B	A	B	A	A	A
SALT WATER	B	A	A	A	A	A	A	A	A
SEWERAGE	B	A	B	A	B	B	A	A	A
SILICONE GREASES	B	A	A	A	A	A	A	A	A
SILICONE OILS	B	A	A	A	A	A	A	A	A
SILVER NITRATE	B	A	A	B	A	A	A	A	A
SKYDROL 500	B	X	X	X	X	X	X	A	B
SKYDROL 7000	B	X	X	X	X	X	B	A	B
SOAP SOLUTIONS	B	A	B	A	B	A	A	A	A
SODA ASH	B	A	A	A	A	A	A	A	A
SODIUM ACETATE	B	A	A	B	B	X	X	A	A
SODIUM BICARBONATE	B	A	A	A	A	A	A	A	A
SODIUM BISULPHATE	B	A	A	A	A	B	A	A	A
SODIUM BORATE	B	A	A	A	A	A	A	A	A
SODIUM CHLORIDE	B	A	A	A	A	A	A	A	A
SODIUM CYANIDE	B	A	A	A	A	A	A	A	A
SODIUM HYDROXIDE	B	A	A	B	A	A	B	A	A
SODIUM HYPOCHLORITE	C	A	X	B	A	X	A	B	A
SODIUM METAPHOSPHATE	B	B	A	A	B	A	A	A	A
SODIUM NITRATE	B	A	B	B	B	A	D	A	A
SODIUM PERBORATE	B	B	B	B	B	B	A	A	D
SODIUM PEROXIDE	B	B	B	B	B	B	A	A	B
SODIUM PHOSPHATE	B	A	A	A	B	A	A	A	A
SODIUM SILICATE	B	A	A	A	A	A	A	A	A
SODIUM SULFATE	B	A	B	A	A	B	A	A	A
SODIUM THIOSULFATE	B	A	B	B	A	B	A	A	A
SOYBEAN OIL	X	C	X	A	B	X	A	A	D
STANNIC CHLORIDE	B	A	A	A	B	A	A	A	A
STEAM	B	X	X	X	C	X	X	X	X
STEARIC ACID	B	B	B	B	B	B	D	A	A
STYRENE	X	X	X	X	X	X	B	B	C
SUCROSE SOLUTION	B	B	A	A	B	A	A	A	A
SULFUR	B	A	X	X	A	X	A	A	D
SULFUR CHLORIDE	X	B	X	C	C	X	A	A	D
SULFUR DIOXIDE	B	B	B	X	X	B	A	A	D
SULFURIC TRIOXIDE	C	X	B	X	X	B	A	B	X
SULFURIC ACID 10%	B	A	C	C	B	C	A	A	A
SULFURIC ACID 10%-75%	B	C	X	X	X	X	A	A	X
SULFUROUS ACID	B	A	B	B	B	B	A	A	A
TANNIC ACID	B	A	A	A	A	A	A	A	A
TAR BITUMINOUS	X	X	X	B	C	X	A	D	D
TARTARIC ACID	C	A	C	A	B	X	A	A	A
TERPINEOL	X	X	X	B	X	X	A	B	A
TERTIARY BUTYL ALCOHOL	B	B	B	B	B	B	A	A	B
TETRACHLOROETHYLENE	X	X	X	X	X	X	A	A	C
TETRAETHYL LEAD	X	X	X	B	B	X	A	D	D

CHEMICAL COMPATIBILITY CHART

CHEMICAL	EPDM	HYPALON	NATURAL (NR)	NITRILE (NBR)	NEOPRENE	STYRENE BUTADIENE (SBR)	VITON (FKM)	CROSS LINKED POLYETHYLENE (XLPE)	CPE
TOLUENE	X	X	X	X	X	X	A	A	C
TRANSFORMER OIL	X	C	X	A	B	X	A	A	A
TRANSMISSION FLUID	X	B	X	A	B	X	A	A	A
TRICHLOROETHANE	X	X	X	X	X	X	A	A	C
TRICHLOROACETIC ACID	C	X	C	B	X	B	C	A	D
TRICHLOROETHYLENE	X	X	X	X	X	X	A	A	X
TRICRESYL PHOSPHATE	X	X	X	X	X	C	A	A	A
TRIETHANOL AMINE	B	B	B	B	A	B	X	A	A
TRINITROTOLUENE	X	B	X	X	B	X	A	A	B
TURBINE OIL	X	X	X	B	X	X	A	A	D
TURPENTINE	X	X	X	A	X	X	A	A	D
VEGETABLE OILS	X	B	X	A	C	X	A	A	A
VINEGAR	B	A	B	B	B	B	A	A	A
VINYL CHLORIDE	X	X	X	X	X	X	A	A	C
WATER	B	A	A	A	A	A	A	A	A
WHISKEY, WINES	B	A	A	A	A	A	A	A	A
WHITE OIL	X	X	X	A	B	X	A	A	A
WOOD OIL	X	C	X	A	B	X	A	A	A
XYLENE	X	X	X	X	X	X	A	A	A
ZINC CHLORIDE	B	A	A	A	A	A	A	A	A
ZINC SULFATE	B	A	B	A	A	B	A	A	A

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

CHEMICAL RESISTANCE CHART FOR PVC HOSE

Plasticisers are incorporated in PVC compounds so as to confer flexibility and softness. Plasticised compounds can cover a very wide range of flexibility and softness and will also differ in other respects ie tensile strength and resilience, according to the type and/or amount of plasticiser/s used. For example, the type of plasticiser used will affect chemical resistance, but in this note it has been assumed that a commonly used, fairly resistant plasticiser such as dioctyl phthalate (DOP) would be present.

The amount of plasticiser incorporated will also effect the chemical resistance, an increase in plasticiser content leading to a deterioration in chemical resistance because the plasticiser is less resistant to attack than is the PVC. The chemical resistance to be expected from plasticised PVC when D.O.P is used as the plasticiser is summarised in the following paragraphs.

ACIDS AND ALKALIS

Diluted acids and alkalis have little effect at room temperature, but at elevated temperatures some hydrolysis and extraction of plasticiser may occur. Concentrated acids and alkalis hydrolyse plasticisers slowly in the cold and more rapidly when heated. The main effect of organic liquids on plasticised PVC is to extract the plasticiser and this results in some hardening, particularly when the PVC is removed from contact with the liquid. The compound may become rigid and less tough.

Most organic solvents will extract plasticiser and give rise to these effects, but with aromatic and chlorinated hydrocarbons, aliphatic and cyclic ethers, this plasticiser extraction is accompanied by a softening of the PVC and the overall effect is difficult to predict. With certain solvents too, plasticiser extracted is replaced by the solvent so that the compound remains flexible provided it remains in contact with that liquid. On allowing the solvent to evaporate the material will stiffen and will not soften on re-immersion.

The undesirable effects previously mentioned which can occur with PVC compounds containing a monomeric ester type plasticiser, such as DOP, can be prevented or reduced by the use instead of a polymeric type of plasticiser which affords a higher resistance to extraction. Such plasticisers include polypropylene adipate (PPA) and polypropylene sebacate (PPS), the former being of value in contact with oils and fuels and the latter showing a high degree of resistance to soap and detergent solutions.

For materials which have been rated as having Limited Life or Unsatisfactory, the material should only be considered for use when alternative materials are unsatisfactory and where limited life is accepted. When PVC is to be used with such chemicals, full scale trials under realistic conditions are particularly necessary.

It may be safely assumed that chemical resistance decreases with both increasing temperature and with increasing concentration of re-agent, and that the reverse is also true. No valid assumptions can be made; however, if the temperature and concentration move in compensating directions.

The following Chemical Resistance Chart is not intended to be complete. Any chemicals missing from this chart is not an indication of unsuitability.

KEY TO CHEMICAL GUIDES:

A - Satisfactory.

B - Recommended for the service and conditions for oil hoses.

C - The material may be considered for use when alternative materials are unsatisfactory, and when limited life is acceptable.

D - When PVC is to be used with such chemicals, full-scale trials under realistic conditions are particularly necessary.

X - Unsatisfactory.

CHEMICAL COMPATIBILITY CHART

CHEMICAL	CONCENTRATION	CONDITIONS	
		20°C (68°F)	60°C (140°F)
ACETIC ACID	10%	A	C
	60%	A	C
	Glacial	X	X
ACETIC ANHYDRIDE		X	X
ACETONE	Traces	X	X
	100%	X	X
ADIPIC ACID		D	D
ALCOHOL ALLYL		X	X
ALCOHOL ETHYL	40% w/w water	A	D
	100%	A	D
ALCOHOL ISOPROPYL		A	D
ALCOHOL METHYL	6% aq. solution	A	A
	100%	C	D
ALLYL CHLORIDE		X	X
ALUMINIUM SALTS		A	A
AMMONIA	s.g. = 0.88 aq. solution	A	X
	Dry gas	D	D
	Liquid	D	D
AMMONIUM HYDROXIDE		A	D
AMMONIUM SALTS		A	A
AMMONIUM SULFIDE		A	X
ANILINE		X	X
ANIMAL OIL		A	D
BARIUM SALTS		A	A
BEER		A	D
BENZALDEHYDE	Traces	X	X
	100%	X	X
BENZENE		X	X
BORAX		A	D
BRINE		A	A
BROMINE	Gas, traces	X	X
	100% dry gas	X	X
	Liquid	X	X
BUTANE		D	D
BUTANOL		A	D
BUTYL ACETATE		X	X
BUTYRIC ACID	20% aq. solution	A	D
	Concentrate	X	X
CALCIUM HYDROXIDE		A	D
CALCIUM HYPOCHLORITE		A	D
CALCIUM SALTS		A	A
CARBON DIOXIDE		A	A
CARBON DISULPHIDE		X	X
CARBON MONOXIDE		A	A
CARBON TETRACHLORIDE		X	X
CASEIN		A	A
CHLORINE WATER	Saturated solution	C	X
CHLOROBENZENE		X	X
CHLORINE	10% (dry gas)	D	D
	100% (dry gas)	D	D
	10% (most gas)	D	D
CHLOROFORM		X	X
CHLOROSULFONIC ACID		X	X
CHROMIC ACID	Plating solution	X	X
	Conc	D	D
CITRIC ACID		A	D
COPPER SALTS		A	A
CUCLOEXANOL		X	X
CYCLOEXANONE		X	X
DETERGE, SYNTHETIC	All concentrates	A	D

CHEMICAL	CONCENTRATION	CONDITIONS	
		20°C (68°F)	60°C (140°F)
DEVELOPERS, PHOTOGRAPHIC		A	A
DEXTROSE		A	A
DICHLOROETHYLENE		X	X
DICHLOROBENZENE		X	X
DIESEL OIL		B	B
DIETHYL ETHER		X	X
DIMETHYLAMINE		D	D
EMULSIFIERS	All concentrates	A	A
EMULSIONS, PHOTOGRAPHIC		A	A
ETHER		X	X
ETHYL ACETATE		X	X
ETHYLENE DICHLORIDE		X	X
ETHYLENE GLYCOL		A	D
FATTY ACIDS		D	D
FERRIC SALTS		A	A
FIXING SOLUTION, PHOTOGRAPHIC		A	A
FLUORINE		X	X
FORMALDEHYDE	40% w/w in water	A	D
	40%	D	D
FORMIC ACID	50%	C	X
	100%	X	X
GRAPE SUGAR		A	A
HYDROCHLORIC ACID	10% aq. solution	A	A
	22%	A	A
	Conc.	A	C
	4% aq. solution	A	
HYDROFLUORIC ACID	40% aq. solution	A	D
	60% aq. solution	X	X
	Concentrate	X	X
HYDROGEN		A	A
HYDROGEN BROMIDE ANHYDROUS		A	D
HYDROGEN CHLORIDE ANHYDROUS		A	D
HYDROGEN FLUORIDE		A	D
HYDROGEN PEROXIDE	3% (10 vol)	A	D
	12% (40 vol)	A	D
	30% (100 vol)	A	D
	90% and above	A	D
HYDROGEN SULPHITE		A	D
IODINE	Solution in potassium iodide	D	D
		X	X
LACQUER SOLVE		C	X
LACTIC ACID	10%	A	D
	100%	X	X
LAURIC ACID		A	D
LAURYL ALCOHOL		A	A
LEADS SALTS		A	A
MAGNESIUM SALTS		A	A
MANGANESE SULPHATE	Concentrate solution	A	A
MERCURIC CHLORIDE		X	X
METHYL CHLORIDE		X	X
METHYL ETHYL KETONE		X	X
METHYLENE CHLORIDE		X	X
MILK		A	D
MINERAL OILS		B	B

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

CHEMICAL COMPATIBILITY CHART

CHEMICAL	CONCENTRATION	CONDITIONS	
		20°C (68°F)	60°C (140°F)
MIXED ACIDS (SULPHURIC/ NITRIC)	Various proportions	D	X
MOLASSES		A	A
NAPHTHA		X	X
NAPHTHALENE		X	X
NICKEL SALTS		A	A
NITRIC ACID	10%	A	D
	25%	A	D
	50%	A	C
	70%	C	X
	95%	X	X
NITROBENZENE		X	X
NITROGEN FERTILIZERS		A	D
NITROUS FUMES	Moist	D	X
OLEIC ACID		A	D
OXALIC ACID		A	D
OXYGEN		A	A
OZONE		A	D
PALMITIC ACID		A	D
PARAFFIN		C	D
PETROL		B	B
PETROL BENZENE MIXTURE	80:20	X	X
PHENOL		D	X
PHOSPHORIC ACID	20% aq. solution	A	A
	30% aq. solution	A	A
PHOSPHORIC DEVELOPERS		A	A
PHOTOGRAPHIC EMULSIONS		A	A
PHOTO FIXING SOLUTION		A	A
PICRIC ACID	1% w/w in water	A	A
	10% w/w in alcohol	A	D
POTASSIUM HYDROXIDE	1% aq. solution	A	A
	10% aq solution	A	A
	conc. aq. solution	A	X
POTASSIUM SALTS		A	A
PROPANE		B	B
PROPYLENE DICHLORIDE		X	X
SALICYLIC ACID		D	D
SEA WATER		A	A
SOAP SOLUTION		A	D
SODIUM HYDROXIDE	1% aq. solution	A	D
	10% aq. solution	A	C
	40% aq. solution	A	X
	Conc. aq. solution	A	X
SODIUM HYPOCHLORITE	15% act. cl	A	C
SODIUM SALTS		A	A
SULPHUR DIOXIDE	Dry	A	A
	Moist	D	X
	Liquid	D	X
SULPHURIC ACID	10%	A	A
	45%	A	A
	50%	A	C
	60%	C	C
	98%	X	X
	Fuming	X	X
SULPHUROUS ACID	30%	A	D
TALLOW		A	D
TANNIC ACID		A	D
TANNING EXTRACTS		A	D
TARTARIC ACIDS		A	D
TETRAETHYL LEAD		A	D
TETRAHYDROFURAN		X	X

CHEMICAL	CONCENTRATION	CONDITIONS	
		20°C (68°F)	60°C (140°F)
TETRALIN		X	X
TOLUENE		X	X
TRANSFORMER OIL		B	X
TRICHLOROETHANE		X	X
TRIETHANOLAMINE		A	A
TRICHLOROETHYLENE		X	X
TRIETHYLAMINE		D	D
TURPENTINE		D	D
UREA		A	D
VEGETABLE OIL		A	D
VINEGAR		A	D
VINYL ACETATE		X	X
WATER		A	A
WETTING AGE		A	A
WINES AND SPIRITS	All concentrates	A	D
XYLENE		X	X
ZINC SALTS		A	A

GENERAL TEMPERATURE CONVERSION CHART

TEMPERATURE CONVERSIONS

Look up reading in centre column (°F/°C). If in degrees Centigrade, read Fahrenheit equivalent in right-hand column; if in degrees Fahrenheit, read Centigrade equivalent in left-hand column.

°C	°F/°C	°F	°C	°F/°C	°F	°C	°F/°C	°F
-73	-100	-148	5.0	41	105.8	33.3	92	197.6
-68	-90	-130	5.6	42	107.6	33.9	93	199.4
-62	-80	-112	6.1	43	109.4	34.4	94	201.2
-57	-70	-94	6.7	44	111.2	35.0	95	203.0
-51	-60	-76	7.2	45	113.0	35.6	96	204.8
-46	-50	-58	7.8	46	114.8	36.1	97	206.6
-40	-40	-40	8.3	47	116.6	36.7	98	208.4
-34	-30	-22	8.9	48	118.4	37.2	99	210.2
-29	-20	-4	9.4	49	120.2	37.8	100	212.0
-23	-10	14	10.0	50	122.0	43	110	230
-17.8	0	32	10.6	51	123.8	49	120	248
-17.2	1	33.8	11.1	52	125.6	54	130	266
-16.7	2	35.6	11.7	53	127.4	60	140	284
-16.1	3	37.4	12.2	54	129.2	66	150	302
-15.6	4	39.2	12.8	55	131.0	71	160	320
-15.0	5	41.0	13.3	56	132.8	77	170	338
-14.4	6	42.8	13.9	57	134.6	82	180	356
-13.9	7	44.6	14.4	58	136.4	88	190	374
-13.3	8	46.4	15.0	59	138.2	93	200	392
-12.8	9	48.2	15.6	60	140.0	99	210	410
-12.2	10	50.0	16.1	61	141.8	100	212	413.6
-11.7	11	51.8	16.7	62	143.6	104	220	428
-11.1	12	53.6	17.2	63	145.4	110	230	446
-10.6	13	55.4	17.8	64	147.2	116	240	464
-10.0	14	57.2	18.3	65	149.0	121	250	482
-9.4	15	59.0	18.9	66	150.8	127	260	500
-8.9	16	60.8	19.4	67	152.6	132	270	518
-8.3	17	62.6	20.0	68	154.4	138	280	536
-7.8	18	64.4	20.6	69	156.2	143	290	554
-7.2	19	66.2	21.1	70	158.0	149	300	572
-6.7	20	68.0	21.7	71	159.8	154	310	590
-6.1	21	69.8	22.2	72	161.6	160	320	608
-5.6	22	71.6	22.8	73	163.4	166	320	626
-5.0	23	73.4	23.3	74	165.2	170	338	640
-4.4	24	75.2	23.9	75	167.0	171	340	644
-3.9	25	77.0	24.4	76	168.8	177	350	662
-3.3	26	78.8	25.0	77	170.6	182	360	680
-2.8	27	80.6	25.6	78	172.4	186	366	691
-2.2	28	82.4	26.1	79	174.2	188	370	698
-1.7	29	84.2	26.7	80	176.0	193	380	716
-1.1	30	86.0	27.2	81	177.8	198	388	730
-0.6	31	87.8	27.8	82	179.6	199	390	734
0	32	89.6	28.3	83	181.4	204	400	752
0.6	33	91.4	28.9	84	183.2	208	406	763
1.1	34	93.2	29.4	85	185.0	210	410	770
1.7	35	95.0	30.0	86	186.8	216	420	788
2.2	36	96.8	30.6	87	188.6	221	430	806
2.8	37	98.6	31.1	88	190.4	227	440	824
3.3	38	100.4	31.7	89	192.2	232	450	842
3.9	39	102.2	32.2	90	194.0			
4.4	40	104.0	32.8	91	195.8			

INTRODUCTION

HOSE

COUPLINGS

ADAPTORS

CLAMPS

ACCESSORIES

TECHNICAL

TEMPERATURE LIMITS FOR STEAM

STEAM TEMPERATURE - PRESSURE CONVERSION GUIDE											
TEMPERATURE - PRESSURE EQUIVALE OF SATURATED STEAM GAUGE PRESSURE AT SEA LEVEL											
TEMPERATURE		BAR	PSI	TEMPERATURE		BAR	PSI	TEMPERATURE		BAR	PSI
°C	°F			°C	°F			°C	°F		
100.0	212	0.00	0.0	141.1	286	2.71	39.4	168.9	336	6.70	97.1
101.1	214	0.04	0.6	141.7	287	2.78	40.3	169.4	337	6.80	98.7
102.2	216	0.08	1.2	142.2	288	2.83	41.1	170.0	338	6.91	100.2
103.3	218	0.12	1.8	142.8	289	2.89	42.0	170.6	339	7.02	101.8
104.4	220	0.17	2.5	143.3	290	2.96	42.9	171.1	340	7.12	103.3
105.6	222	0.22	3.2	143.9	291	3.02	43.8	171.7	341	7.24	105.0
106.7	224	0.27	3.9	144.4	292	3.08	44.7	172.2	342	7.34	106.5
107.8	226	0.32	4.6	145.0	293	3.14	45.6	172.8	343	7.46	108.2
108.9	228	0.36	5.3	145.6	294	3.20	46.5	173.3	344	7.57	109.8
110.0	230	0.42	6.1	146.1	295	3.27	47.5	173.9	345	7.68	111.5
111.1	232	0.47	6.9	146.7	296	3.34	48.4	174.4	346	7.79	113.1
112.2	234	0.53	7.7	147.2	297	3.40	49.4	175.0	347	7.91	114.8
113.3	236	0.58	8.5	147.8	298	3.47	50.3	175.6	348	8.03	116.5
114.4	238	0.65	9.4	148.3	299	3.54	51.3	176.1	349	8.15	118.2
115.6	240	0.71	10.3	148.9	300	3.60	52.3	176.7	350	8.26	119.9
116.7	242	0.77	11.2	149.4	301	3.68	53.4	177.8	352	8.51	123.5
117.8	244	0.83	12.1	150.0	302	3.75	54.4	178.9	354	8.76	127.1
118.9	246	0.90	13.1	150.6	303	3.82	55.4	180.0	356	9.02	130.8
120.0	248	0.97	14.1	151.1	304	3.89	56.4	181.1	358	9.27	134.5
121.1	250	1.04	15.1	151.7	305	3.96	57.5	182.2	360	9.53	138.3
122.2	252	1.12	16.2	152.2	306	4.04	58.6	183.3	362	9.81	142.3
123.3	254	1.19	17.3	152.8	307	4.12	59.7	184.4	364	10.08	146.2
124.4	256	1.27	18.4	153.3	308	4.18	60.7	185.6	366	10.36	150.3
125.6	258	1.35	19.6	153.9	309	4.28	61.9	186.7	368	10.64	154.4
126.7	260	1.43	20.7	154.4	310	4.34	63.0	187.8	370	10.94	158.7
127.2	261	1.47	21.4	155.0	311	4.43	64.2	188.9	372	11.23	163.0
127.8	262	1.51	22.0	155.6	312	4.50	65.3	190.0	374	11.54	167.4
128.3	263	1.56	22.6	156.1	313	4.58	66.5	191.1	376	11.85	171.9
128.9	264	1.60	23.2	156.7	314	4.66	67.6	192.2	378	12.16	176.4
129.4	265	1.65	23.9	157.2	315	4.74	68.8	193.3	380	12.50	181.1
130.0	266	1.70	24.5	157.8	316	4.82	70.0	194.4	382	12.81	185.8
130.6	267	1.74	25.2	158.3	317	4.91	71.3	195.6	384	13.14	190.6
131.1	268	1.78	25.8	158.9	318	4.99	72.5	196.7	386	13.48	195.6
131.7	269	1.83	26.5	159.4	319	5.08	73.7	197.8	388	13.83	200.6
132.2	270	1.87	27.2	160.0	320	5.17	75.0	198.9	390	14.18	205.7
132.8	271	1.92	27.9	160.6	321	5.26	76.3	200.0	392	14.54	210.9
133.3	272	1.97	28.6	161.1	322	5.34	77.5	201.1	394	14.90	216.2
133.9	273	2.02	29.3	161.7	323	5.43	78.8	202.2	396	15.27	221.5
134.4	274	2.07	30.0	162.2	324	5.52	80.1	203.3	398	15.65	227.0
135.0	275	2.12	30.8	162.8	325	5.62	81.5	204.4	400	16.04	232.6
135.6	276	2.17	31.5	163.3	326	5.71	82.8	205.5	402	16.41	238.0
136.1	277	2.23	32.3	163.9	327	5.80	84.2	206.7	404	16.82	244.0
136.7	278	2.27	33.0	164.4	328	5.90	85.6	207.8	406	17.23	250.0
137.2	279	2.33	33.8	165.0	329	5.99	87.0	208.9	408	17.65	256.0
137.8	280	2.38	34.5	165.6	330	6.09	88.4	210.0	410	18.06	262.0
138.3	281	2.43	35.3	166.1	331	6.19	89.8	211.1	412	18.47	268.0
138.9	282	2.49	36.1	166.7	332	6.29	91.2	212.2	414	18.96	275.0
139.4	283	2.54	36.9	167.2	333	6.39	92.7	213.3	416	19.37	281.0
140.0	284	2.60	37.7	167.8	334	6.48	94.1	214.4	418	19.85	288.0
140.6	285	2.66	38.6	168.3	335	6.59	95.6	215.6	420	20.27	294.0

VACUUM CONVERSION TABLE

ATM	BAR	PSI	WATER		MERCURY		PERCENTAGE %
			m	ft	mm	inch	
0.1	0.09	1.4	1	3' 3 3/8"	73.6	2.9	10
0.2	0.19	2.8	2	6' 6 3/4"	147.1	5.8	20
0.3	0.29	4.2	3	9' 10 1/8"	220.7	8.7	30
0.4	0.39	5.7	4	13' 1 1/2"	294.2	11.6	40
0.5	0.49	7.1	5	16' 4 13/16"	367.8	14.5	50
0.6	0.58	8.5	6	19' 8 3/16"	441.3	17.4	60
0.7	0.69	10.0	7	22' 11 9/16"	514.9	20.3	70
0.8	0.78	11.4	8	26' 2 15/16"	588.4	23.2	80
0.9	0.88	12.8	9	29' 6 3/8"	662.0	26.0	90
1.0	0.98	14.2	10	32' 9 11/16"	735.5	29.0	100

INTRODUCTION

HOSE

FEET OF WATER TO INCHES OF MERCURY CONVERSION TABLE

FEET OF WATER	1	2	4	6	8	10	12	14	16	20	22	24	26	28	30	32	34
INCHES OF MERCURY	0.9	1.8	3.5	5.3	7.1	8.8	10.6	12.4	14.1	17.7	19.4	21.2	23.0	24.8	26.5	28.3	30.0

COUPLINGS

PRESSURE CONVERSIONS

100 psi = 6.9 Bar	5 Bar = 72.5 psi
250 psi = 17.25 Bar	10 Bar = 145 psi
600 psi = 41.4 Bar	25 Bar = 362.5 psi

ADAPTORS

MEASUREMENT INFORMATION

MEASURES OF PRESSURE:

1 Pound Per Square Inch = 144 Pounds Per Square Foot = 0.068 Atmosphere = 2.042 Inches of Mercury at 62°F = 27.7 Inches of Water at 62°F = 2.31 Feet of Water at 62°F.

1 Atmosphere = 30 Inches of Mercury at 62°F = 14.7 Pounds Per Square Inch = 2116.3 Pounds Per Square Foot = 33.95 Feet of Water at 62°F.

1 Foot of Water at 62°F = 62.355 Pounds Per Square Foot = 0.433 Pounds Per Square Inch. 1 Inch of Mercury at 62°F = 1.132 Feet of Water = 13.58 Inches of Water = 0.491 Pounds Per Square Inch.

Column of Water 12 Inches High, 1 Inch in Diameter = .341 Pounds

CLAMPS

LENGTH CONVERSION CONSTANTS:	
Millimeters x .039370 = Inches	Inches x 25.4001 = Millimeters
Meters x 39.370 = Inches	Inches x .0254 = Meters
Meters x 3.2808 = Feet	Feet x .30480 = Meters
Meters x 1.09361 = Yards	Yards x .91440 = Meters
Kilometers x 3,280.8 = Feet	Feet x .0003048 = Kilometers
Kilometers x .62137 = Statute Mile	Statute Miles x 1.60935 = Kilometers
Kilometers x .53959 = Nautical Miles	Nautical Miles x 1.85325 = Kilometers

ACCESSORIES

WEIGHT CONVERSION CONSTANTS:	
Grams x .03527 = Ounces (Avd.)	Ounces (Avd.) x 28.35 = Grams
Grams x .033818 = Fluid Ounces (Water)	Fluid Ounces (Water) x 29.57 = Grams
Kilograms x 35.27 = Ounces (Avd.)	Ounces (Avd.) x .02835 = Kilograms
Kilograms x 2.20462 = Pounds (Avd.)	Pounds (Avd.) x .45359 = Kilograms

TECHNICAL

These RTS are the terms and conditions of each of RYCO HYDRAULICS PTY LTD ABN No 96 085 527 724; RYCO 24.7 Pty Ltd ABN 97 054 946 173 and each is referred to, severally, as "RYCO".

1. Unless otherwise expressly agreed in writing, the products and services supplied by RYCO ("RPS") are supplied upon the following RTS to the exclusion of any (written or verbal) terms and conditions of the purchaser and no agent or representative of RYCO has any authority to vary or omit any of these terms in relation to a specific purchaser.
2. Before purchasing any RPS the purchaser:
 - a) agrees that they have read and understood these RTS, the safety information, notes, warnings and instructions contained in RYCO's current relevant catalogues, product technical manuals, manuals and published technical data ("Documents"); and
 - b) holds themselves as a responsible, competent and appropriately skilled user or reseller of RPS and that they comprehend and understand the dangers of incorrect use, installation or assembly of such products. Documents are available on the RYCO website www.RYCO.com.au.
3. Each request for RPS (whether in writing or verbally) which sets out the quantity, price and a description of the RPS required, including a date and address for delivery (or, in the case of services, date for performance) ("Order") placed by the purchaser amounts to an offer by it to acquire from RYCO the RPS described in the Order upon these RTS. RYCO may, in its discretion, accept an offer by doing one of the following within 30 days after the date that RYCO receives the Order:
 - a) deliver the RPS (or perform the services) to the address for delivery set out in the Order; or
 - b) provide express written acceptance of the Order to the purchaser giving an estimated date for delivery.Failure of RYCO to accept the order in accordance with this clause 3 will be a rejection of the Order.
4. Each Order that is accepted by RYCO under clause 3 constitutes a separate contract between RYCO and the purchaser which the parties agree is governed by these RTS.
5. RYCO may, in its discretion, refuse to sell or supply RPS to the purchaser, and may, but is not obliged to, give written notice to that effect. RYCO is not required to give reasons for its refusal.
6. Any Order, including any order for special production runs under clause 17, that has been accepted by RYCO may not be reduced or cancelled by the purchaser after acceptance without the agreement of RYCO in writing.
7. The purchaser agrees that all RPS it orders are for the purposes of business and the purpose of re-supply or transforming them in the process of trade or commerce, and not for personal, domestic or household use or consumption, and that the Australian Consumer Law does not apply to the supply of RPS to the purchaser to the extent permitted by that Act. The purchaser acknowledges and agrees that RYCO relies upon this representation in agreeing to deliver or provide the RPS.
8. All products supplied by RYCO must be examined by the purchaser at the time of delivery and any deficiency in quantity or quality of or damage to product delivered ("Defect") must be notified to RYCO within 5 business days of the date of delivery to the purchaser. If the purchaser does not provide such notification to RYCO then this shall be deemed to be an acknowledgment by the purchaser that the:
 - a) quantities as set out by the invoice are correct; and
 - b) products are of an acceptable quality; and
 - c) the products are not damaged and will not be returned.
9. Subject to clauses 11 and 13 below, RYCO warrants to the purchaser that the RPS will be of an acceptable quality on delivery and for twelve months from issue of invoice by RYCO ("Warranty"). The purchaser agrees that it will not provide any express warranty in respect of the RPS to any customer other than the Warranty as provided here, and releases and indemnifies RYCO from any liability for any representation made by the purchaser to a customer that exceeds the Warranty. RYCO will not provide any warranty whatsoever on items manufactured, built or acquired wholly or partially to the purchaser's designs or specifications.
10. If the purchaser provides notification of a Defect to RYCO pursuant to clause 8 and lodges a Warranty claim in relation to RPS, RYCO's liability will be limited as set out in clause 13.
11. To the extent permitted by law, RYCO will not be liable for a breach of the Warranty set out in clause 9 for any of the following:
 - a) the purchaser not providing notification to RYCO pursuant to clause 8;
 - b) the purchaser or the user of the RPS has not used the RPS in accordance with the instructions or specifications set out in the Documents;
 - c) use of the RPS that is contrary to the instructions contained in RYCO's Documents, as this may result in an unsatisfactory or even dangerous product;
 - d) defects caused by normal or accelerated deterioration; physical, chemical, electrochemical or environmental conditions; insufficient maintenance or incorrect repair; failure to follow correct storage, user and operating instructions; use of unsuitable materials;
 - e) products that have been incorrectly assembled in accordance with the assembly operations specified in RYCO's Documents;
 - f) the modification of RPS, other than in accordance with RYCO's written approval;
 - g) the performance of any RPS that are welded (except if the welding is carried out by RYCO, its servants or its agents) by a person who is not suitably qualified including, but not limited to, welders, salvage, life saver or any other components. These welded products should be tested and proved fit for the use intended; and
 - h) the claimant does not extend to RYCO a reasonable opportunity to fully inspect the product, the subject of the claim and the circumstances giving rise to the claim.
12. Subject to clause 9 and except as conferred by law, no express warranty or guarantee is given with respect to any of the characteristics or quality of RPS supplied.
13. Where any law or statute implies in these RTS, any term, condition or warranty and that Act, law or statute avoids or prohibits a contract excluding or modifying the application of or exercise of or liability under such term, condition or warranty, such term, condition or warranty will be deemed to be included in these RTS. The liability of RYCO to the purchaser for any breach of such term, condition or warranty, or any breach of the Warranty will be limited, at the option of RYCO, to:
 - a) if the breach relates to goods:
 - i) the replacement of the goods or the supply of the equivalent goods;
 - ii) repair of the goods
 - iii) the payment of the cost of replacing the goods or of acquiring equivalent goods or having the goods repaired; or
 - b) if the breach relates to services:
 - i) the resupply of the services (or part of them); or
 - ii) the payment of the cost of having the services supplied again.
14. RYCO sets out, in its Documents and other product material, suggestions as to the use, installation and care of its products on the understanding that those suggestions are made solely to assist the purchaser to obtain the best results from their purchase and those suggestions do not constitute warranties or otherwise add to or vary these terms in any way.
15. Unless otherwise stated to the contrary by the purchaser on a written Order, RYCO will supply products on the understanding that they will be used in hydraulic applications with mineral oil within the limits shown in RYCO's current Documents.

16. RYCO will use its best endeavours to deliver at the time stated in the Order, but all delivery dates shall be regarded as estimates only. The purchaser must accept the actual delivery date and RYCO shall not be liable for any losses, costs, damages or expenses suffered by the purchaser or any other party as a result of any delay in delivery.
17. Where Orders are accepted by RYCO for special production runs, unless otherwise agreed to in writing, RYCO reserves the right to make delivery and charge for plus or minus 20 units or 15% of the order quantity, whichever is greater. RYCO will not accept any restriction of its right to manufacture or sell or offer to any other purchaser products which may have been manufactured specially for a specific purchaser or purchasers.
18. Payment is to be made in cash, cheque or by direct debit within 30 days of invoice date. If:
 - a) the purchaser fails to make any payments that are due to RYCO on or before the due date stipulated in the invoice, under this or any other contract, RYCO may delay, suspend or cancel deliveries in whole or in part at its sole discretion;
 - b) the payment is not made within these RTS, interest will be calculated and charged at the interest rate fixed from time to time in section 2 of the Penalty Interest Rates Act 1983 (Vic) plus an additional 2% per month, and will be charged monthly and accrue from the date of invoice until all overdue amounts are paid in full; and
 - c) any amount becomes overdue, all amounts recorded on the purchaser's account will be deemed to be immediately due and payable. The purchaser agrees to pay all costs and expenses incurred by RYCO, its agents and its servants in the recovery of the overdue amounts, including but not limited to all legal costs, debt recovery costs and debt recovery agency costs.
19. The RPS remain the property of RYCO and title in the RPS only passes from RYCO to the purchaser once RYCO has received all amounts due to it from the purchaser for those RPS. Risk in the RPS passes to the purchaser when the RPS leave RYCO's premises for delivery to the purchaser and the purchaser must indemnify RYCO against any loss to the RPS occurring after delivery. The purchaser must store the RPS separately from any other goods of its own or other suppliers and in a way that enables the RPS to be clearly identifiable as RYCO's. While RYCO retains title to the RPS, the purchaser holds the RPS as RYCO's fiduciary and the purchaser is authorised to sell the RPS as RYCO's agent and fiduciary and the proceeds of any sale of RPS or insurance claim regarding RPS must be held on trust for RYCO until title to the RPS passes to the purchaser. The parties acknowledge that under this arrangement, when the purchaser receives the RPS the purchaser is deemed to grant RYCO a security interest (as that term is defined in section 12 of the Personal Property Securities Act 2009) (PPSA) in the RPS securing the purchaser's obligation to return the goods to RYCO or pay the purchase price.
20. At any time after the due date for payment of any account owing from the purchaser to RYCO, or if the purchaser is subject to an insolvency event (ie in relation to a body corporate, a winding up, the appointment of a voluntary administrator, receiver, manager or similar insolvency administrator to a party or any substantial part of its assets, or in relation to an individual, becoming bankrupt or entering into a scheme or arrangement with creditors or, in relation to a body corporate or an individual, the occurrence of any event that has a substantially similar effect to any of the above events) and has not paid any outstanding amount owing to RYCO, and so long as such amounts have not been received by RYCO in full, RYCO at the purchaser's expense, may recover possession of these, or any other RPS that RYCO has previously delivered to the purchaser which are of an equivalent value. If this occurs, the purchaser grants a licence to RYCO to enter any premises where such RPS are situated to search for, inspect and/or repossess such RPS. RYCO has the right to resell any RPS repossessed and is not liable to the purchaser or any person claiming through the purchaser arising from any repossession of RPS (or any other act or omission by RYCO or its agents engaged in by RYCO or them pursuant to the licence granted under this clause).
21. The purchaser acknowledges and agrees that these RTS constitute a Security Agreement which creates a Security Interest (a Purchase Money Security Interest) under the PPSA in favour of RYCO. RYCO holds a Security Interest in all RPS previously supplied by RYCO to the purchaser, and will hold a Security Interest in all after acquired RPS supplied on the terms set out in clauses 19 and 20, notwithstanding anything express or implied to the contrary contained in the purchaser's purchase order.
The purchaser agrees:
 - a) that RYCO may effect a registration of its Security Interest on the Personal Properties Securities Register (PPSR) at its sole discretion;
 - b) to provide RYCO with all information (which information the purchaser warrants to be complete, accurate and up to date in all respects) and execute any document or do anything that RYCO may reasonably require to enable perfection of its Security Interest or registration of a Financing Statement or Financing Change Statement on the PPSR;
 - c) not to register a Financing Change Statement or an amendment demand without the prior written consent of RYCO;
 - d) to provide to RYCO not less than fourteen days prior written notice of any proposed change in the purchaser's name or any other change in its details (including but not limited to change in the address, facsimile, email, trading name or business practice);
 - e) if requested by RYCO, and to the extent permissible under the PPSA, pay all reasonable costs incurred by RYCO to register a Financing Statement and to maintain up-to-date registration of its Security Interest on the PPSR;
 - f) reimburse RYCO the full cost incurred by RYCO (including legal costs and disbursements on an indemnity basis) in obtaining an order pursuant to section 182 of the PPSA;
 - g) as between the purchaser and RYCO, where RYCO has rights under this Agreement in addition to those in Chapter 4 of the PPSA, those rights will continue to apply and will not be limited by s125 of the PPSA;
 - h) to the extent permitted by law, to waive any rights that the purchaser may have to:
 - (i) receive notice of removal of an accession under section 95 of the PPSA, and not to have the RPS damaged when RYCO removes the accession;
 - (ii) reinstatement of the security agreement pursuant to s143 of the PPSA;
 - (iii) receive any notice required under the PPSA, including but not limited to a notice of retention or a notice of disposal or a statement of account on enforcement of the Security Interest in accordance with s115 of the PPSA;
 - (iv) receive a Verification Statement in respect of any Financing Statement relating to the Security Interest pursuant to section 157 of the PPSA,
 For the purposes of this clause 21, capitalised terms have the meaning of those terms in the PPSA.
22. RYCO will not be liable for breach of contract arising from or caused by, directly or indirectly, fire, flood, earthquake, storm or tempest; the action of any government or any public authority or corporation; the lack of labour, supplies or equipment, from whatever cause; or any other cause beyond RYCO's control.
23. This contract shall be governed by and construed by the laws of the State of Victoria, Australia.
24. If any of these RTS or any part thereof is held by a court to be void or unenforceable such provision shall be read down to such extent as may be necessary to ensure that it does not so infringe and as may be reasonable in all circumstance so as to give it valid operation of a partial character and in the event that the infringing condition cannot be so read down it will be severed from the other provisions.
25. RYCO may amend these RTS from time to time, but those amendments will not take effect until RYCO has notified the purchaser in writing of those amendments. The applicable version will be those RTS attached to or forming part of the relevant Order and will take precedence over any earlier version contained in the Documents.
26. RYCO may cancel these RTS at any time by giving written notice to the purchaser of the cancellation. RYCO will supply any Order that has been accepted by it (under clause 3) on or before the date of that cancellation notice.
27. RPS are designed for use in static equipment, mobile ground vehicles, mobile ground equipment and marine applications. RPS are not designed for use in flight applications. RYCO does not recommend use of its products on aircraft and has no liability to the purchaser if the purchaser supplies the goods to consumers for use on aircraft.
28. The purchaser may not assign, transfer or otherwise dispose of any of the rights or obligations of this or any other contract with RYCO that is subject to these RTS without the prior written consent of RYCO.

A/F	Across Flats	Clamp	A metal fitting, band or wire used around the outside of a hose end to secure a coupling, fitting or nipple.
Abrasion	A wearing away by friction.	Cold Flow	Continued deformation or movement of rubber under stress.
ABS, Abs.	Absolute	Compression Set	The deformation that remains in rubber after it has been subjected to and released from stress such as a clamp. The longer the stress is maintained the more definitive the deformation.
ABS	American Bureau of Shipping	Conductive	A rubber having qualities of conducting or transmitting heat or electricity. Most generally, applied to rubber products capable of conducting static electricity.
ABL	Alternate Buckle Locations	Copolymer	A polymer formed from two or more types of monomers.
AC	Air Conditioning	Corrugated Cover	A longitudinally ribbed or grooved exterior.
Acid Resistant	Having the ability to withstand the action of identified acids within specified limits of concentration and temperature.	Corrugated Hose	Hose with a carcass fluted radially or helically to enhance its flexibility or reduce its weight.
Adaptor	The accessory part which can complete the connection between a hose fitting and another fluid system component. Often, a tube fitting connected to a hose assembly rather than a tube assembly.	Coupling	A device at the end or ends of a length of hose that allows a connection to be made.
Adhesion	The strength of bond between cured rubber surfaces or between a cured rubber surface and a non-rubber surface.	Cover Wear	The loss of material during use due to abrasion, cutting or gouging.
Adhesion Failure:	(1) the separation of two bonded surfaces at an interface by a force less than specified in a test method; (2) the separation of two adjoining surfaces owing to service conditions.	CrVI	Chromium 6
AGA	Australian Gas Association	Cracking	A sharp break or fissure in the surface. Generally caused by strain and environmental conditions.
Ageing	Changes in physical properties over a period of time.	Crimping	The act of forming the metal sleeve or ferrule of a hose fitting with a surrounding series of die segments to compress the hose within the fitting. The crimping process changes the shape of the entire circumference and length simultaneously. Often interchanged with the term "swaged".
Ambient Temperature	The temperature of the atmosphere or medium surrounding an object under consideration.	cSt	Centistoke
Anodise	A process for aluminium, similar to zinc or chrome plating steel, in which an aluminium part is electrically charged then, dipped in various chemicals to produce various colours and/or surface hardness.	Cure	The act of vulcanisation. See also: vulcanisation.
ANSI	American National Standards Institute, Inc.	C/W	Complete With
API	American Petroleum Institute	DIA, DIAM	Diameter
Armoured Hose	A hose with a protective covering, applied as a braid or helix, to protect from physical abuse.	DIN	Deutsche Industrie Normen (German Industrial Standard)
ASME	American Society of Mechanical Engineers	DKL	Dicht Kegel Leicht (Metric Light Series 24° Cone)
ASTM	American Society for Testing and Materials	DKM	Dicht Kegel Metric (Metric 60° Cone)
AS	Australian Standard	DKO	Dicht Kegel O Ring (Metric O Ring Seal 24° Cone)
ATM	Atmosphere (pressure)	DKOL	Dicht Kegel O Ring Leicht (Metric Light O Ring Series 24° Cone)
AV	Average	DKOS	Dicht Kegel O Ring Schwer (Metric Heavy O Ring Series 24° Cone)
Barb And Ferrule Fitting	A two-piece hose fitting comprised of a barbed nipple and ferrule, normally with peripheral ridges or backward-slanted barbs, for inserting into a hose and a ferrule, usually crimped, outside.	DKS	Dicht Kegel Schwer (Metric Heavy Series 24° Cone)
BCS	British Coal Standard	DL	Drop Length
Bend Radius	The radius of a bent section of hose measured to the innermost surface of the curved portion.	DN	Diameter Nominal (mm)
BH	Bulkhead	DNV	Det Norske Veritas
Bore	(1) an internal cylindrical passageway, as of a tube, hose or pipe; (2) the internal diameter of a tube, hose, or pipe.	DoT	Department of Transportation (USA)
BP	Burst Pressure	Durometer	An instrument for measuring the hardness of rubber.
Braid	A continuous sleeve of interwoven single or multiple strands of yarn or wire.	Durometer Hardness	A numerical value which indicates the resistance to indentation of the blunt indenter of the durometer.
Braided Hose	Hose in which the reinforcing material has been applied as interlaced spiral strands.	EEC	Evaporative Emission Control
Braided Ply	A layer of braided reinforcement.	Elastomer	Any of various elastic substances resembling rubber.
BS	British Standard	ELB	Elbow
BSP	British Standard Pipe	Elongation	The increase in length expressed numerically as a fraction or percentage of the initial length.
BSPP	British Standard Pipe Parallel Thread	EPDM	Ethylene Propylene Diene Monomer
BSPPFS	British Standard Pipe Parallel Female Swivel	Expansion Ring	Typically refers to a type of fire hose couplings that are attached by expanding a sleeve (usually brass) outward to compress the hose against the wall of the bowl of the coupling.
BSPPMBH	British Standard Pipe Parallel Male Bulkhead	EXT	Extended
BSPPOM	British Standard Pipe Parallel O Ring Male	External Swage (Swaging)	A ferrule is passed through a reducing die, usually split, to bring the ferrule O.D. down to a predetermined size (Swaging) (for proper coupling retention) forcing the hose tube down into the stem serrations.
BSPPOM EXT	British Standard Pipe Parallel O Ring Male Extended	Extruded	Forced through the shaping die of an extruder. The extrusion may be solid or hollow cross section.
BSPT	British Standard Pipe Taper Thread	F, FEM	Female
BSPTFF	British Standard Pipe Taper Female Fixed	Fabric Impression	A pattern in the rubber surface formed by contact with fabric during vulcanisation.
BSPTM	British Standard Pipe Taper Male	Ferrule	A collar placed over a hose end to attach the fitting to the hose. The ferrule may be crimped or swaged, forcing the hose against the shank of the coupling, or the shank may be expanded, forcing the hose out against the ferrule, or both.
BSW	British Standard Whitworth		
Burst Pressure	The pressure at which rupture occurs.		
CA	Cut-off Allowance		
CAT	Caterpillar, Inc. Registered Trademark		
CATERPILLAR	Caterpillar, Inc. Registered Trademark		
Chamfer	To cut an angle on the hose tube to aid in stem insertion and to prevent the hose end from flaring when a stem is inserted.		
CL, C/L	Cut Length		

FF	Female Fixed	KOBELCO	Kobe Steel, Ltd. Registered Trademark
FIX	Fixed	KOMATSU	Komatsu Ltd./Komatsu Industries Corporation Registered Trademark
Flange-Fitting	A circular ring at the end of a hose or hose assembly for joining to another circular ring, generally by bolting; may be a rubber member integral with the hose or a metal ring attached to a pipe nipple.	kPa	KiloPascal
Flexible Mandrel	A long, round, smooth rod capable of being coiled in a small diameter. It is used for support during the manufacture of certain types of hose. (The mandrel is made of rubber or plastic material and may have a core of flexible wire to prevent stretching.)	kW	Kilowatt
FLNG	Flange	LNG	Long
FOS	Factor Of Safety	L	Litre
Free Length	The lineal measurement of hose between fittings or couplings.	lb	Pound
FS	Female Swivel	LP	Low Pressure
ft	Foot	LPG	Liquified Petroleum Gas
ft.lbf	Foot Pound force	LPM	Litres Per Minute
g	Gram	LR	Lloyd's Register
GHT	Garden Hose Thread	M	Male
GL	Germanischer Lloyd	m	Metre
GPM	Gallons Per Minute	Mandrel Built	A hose fabricated and/or vulcanised on a mandrel.
Gripping Finger	The part of the clamp that goes over and behind the stem collar to aid in clamp retention.	MAX	Maximum
Hand-Built Hose	A hose made by hand on a mandrel, reinforced by textile or wire or combination of both.	MBP	Minimum Burst Pressure
Hard Coat	An anodising process in which the surface hardness of aluminium becomes similar to or greater than that of case hardened steel.	MED	Marine Equipment Directive
HD	Hardened Steel	MFL	Minimum Free Length
Heat Resistance	The property or ability to resist the deteriorating effects of elevated temperatures.	MIC, Mic.	Micron (µm)
Helix	In hose, a shape formed by spiraling a wire or other reinforcement around the cylindrical body of a hose.	MIL	Military Specification (USA)
Hose Assembly	A length of hose with a coupling attached to one or each end.	MIN	Minimum
Hose Clamp	A collar, band or wire used to hold hose on to a fitting.	Minimum Burst Pressure	The lowest pressure at which rupture occurs under prescribed conditions.
HP	High Pressure	mm	Millimetre
hp	Horse Power	mmHg	Millimetres of Mercury
HTS	High Tensile Steel	MP	Medium Pressure
HW	Heavy Wall	MPa	MegaPascal
ID	Inside Diameter	MSHA	USA Department of Labor, Mine Safety and Health Administration
IDF	Inside diameter of the female	MWP	Maximum Working Pressure
IMP	Imperial	NA, N/A	Not Applicable
Impression, Fabric	Impression formed on the rubber surface during vulcanisation by contact with fabric jacket or wrapper.	NAHAD	National Association of Hose and Accessories Distributors (USA)
inHg	Inches of Mercury	NATA	National Association of Testing Authorities (Aus.)
Internal Expansion (I.X.)	A plug (or bullet) is pulled through a stem or a set of blades (fingers) increase the stem I.D. to the plug O.D. or a predetermined setting when using expansion blades (fingers). This forces the stem serrations into the hose tube and the hose cover into the serrations of the ferrule.	NB	Nominal Bore
INV	Inverted	NCB	National Coal Board
IPS	Iron Pipe Straight Thread	NCS	NATA Certification Services
IPT	The abbreviation for standard iron pipe thread.	NFPA	National Fluid Power Association (USA)
ISO	International Organization for Standardization	NH	American Standard Fire Hose Coupling Thread (National Hose Thread also known as National Standard Thread). See NST.
JIC	Joint Industries Council (Thread UN)	Nipple	The section of the fitting that is inserted into the hose. Also known as the shank of a coupling.
JIC Thread	Typically refers to the threads on hydraulic fittings having 37° conical sealing surfaces.	Nm	Newton Metre
JICFS	JIC Female Swivel	NOM, Nom.	Nominal
JICM	JIC Male	Nominal	A dimensional value assigned for the purpose of convenient designation.
JICMBH	JIC Male Bulkhead	NPS	National Pipe Straight Thread
JICMEXT	JIC Male Extended	NPSH	American Standard Straight Pipe for Hose Couplings (National Pipe Straight Hose)
JIS	Japanese Industrial Standard	NPSM	National Pipe Straight Mechanical
JSEAL™	RYCO Proprietary High Performance JIC	NPSMFS	National Pipe Straight Mechanical Female Swivel
Kinking	A temporary or permanent distortion of the hose induced by bending beyond the minimum bend radius.	NPT	National Pipe Taper Thread
kg	Kilogram	NPTF	National Pipe Taper for Fuel
kg.m	Kilogram Metres	NPTFF	National Pipe Taper Female Fixed
		NPTM	National Pipe Taper Male
		NST	American Standard Fire Hose Coupling Thread (National Hose Thread also known as National Standard Thread). See NH.
		OA, O/A	Overall
		OD	Outside Diameter
		ODM	Outside diameter of the male
		Oil Swell	The change in volume of a rubber article resulting from contact with oil.
		Operating Pressure	The pressure at which system functions. Also known as Working Pressure.
		ORB Thread	O-Ring Boss Thread
		ORFS	O Ring Face Seal
		ORFSFS	ORFS Female Swivel
		ORFSM	ORFS Male
		Ozone Cracking	The surface cracks, checks, or crazing caused by exposure to an atmosphere containing ozone.

Ozone Resistance	The ability to withstand the deteriorating effects of ozone (generally cracking).	SF	Swivel Female (Union)
PCD	Pitch Circle Diameter	Shank	The section of the fitting or coupling that is inserted into the hose.
PCV	Positive Crankcase Ventilation	Sintered	Process in which powdered metal is formed in a mold under extreme pressure to form a finished part.
Permanent Set	The amount by which an elastic material fails to return to its original form after deformation.	SIPT	Straight Iron Pipe Thread
Plasticiser	A compounding ingredient which can change the hardness, flexibility, or plasticity of an elastomer.	Spring Guard	A helically wound wire applied internally or externally to reinforce the end of a hose.
Ply	(1) A layer or rubberised fabric; (2) A layer formed by a single pass through a single deck of a yarn, cord, or wire braiding machine; (3) A layer formed by a single pass through a single head of yarn, cord, or wire knitting machine; (4) A seamless woven jacket consisting of warp and filler yarns and/or wire; (5) A layer consisting of multiple strands of cord or wire closely spaced; (6) A layer formed by winding a single strand of cord or wire closely spaced; (7) A single yarn in a composite yarn; (8) A layer of unvulcanised rubber.	SS	Stainless Steel
Ply Adhesion	The force required to separate two adjoining reinforcing members of a hose.	Static Bonding	Use of a grounded conductive material to eliminate static electrical charges.
Ply Separation	A loss of adhesion between plies.	Static Conductive	Having the capability of furnishing a path for a flow of static electricity.
P/N, P/NO	Part Number	Static Wire	A wire incorporated in a hose to conduct static electricity.
PREV	Previous	STD	Standard
psi	Pounds per Square Inch	STPL	Staple
PSIG	Pounds per square inch gauge	Surge	A rapid rise and decrease of internal pressure.
Permanent Fitting	The type of fitting which, after it is applied, cannot be removed for reuse.	SWIV	Swivel
Polymer	A macromolecular material formed by the chemical combination of monomers having the same or different chemical composition.	T/NESS	Thickness
Pressure, Burst	The pressure at which rupture occurs.	TBA	To Be Advised
Pressure, Working	The maximum pressure to which a hose will be subjected, including the momentary surges in pressure which can occur during service. Abbreviated as WP.	TEFLON	DuPont (E. I. du Pont de Nemours and Company) Registered Trademark
Pressure, Proof	A specified pressure which exceeds the manufacturer's recommended working pressure applied to a hose to indicate its reliability at normal working pressure. Proof pressure is usually twice the working pressure.	THRD	Thread
PTFE	Polytetrafluoroethylene	TIPT	Tapered Iron Pipe Thread
Pure Gum	A rubber compound containing only those ingredients necessary for vulcanisation; particularly applicable to natural rubber.	Torque	Amount of force required to turn an object. Usually measured in inch pounds (in. lbs.) or foot pounds (ft. lbs.)
PW	Pressure Washer	TP	Test Pressure
QA	Quality Assurance	TPI	Threads Per Inch
QC	Quality Control	Tube	The innermost part of the hose that's purpose is to contain the media being transported. Usually, rubber compounds or plastics are blended to give the tube specific properties so that it is compatible with certain media.
QRC	Quick Release Coupling	TW	Tube Weld
RED	Reducing	UHMW	Ultra High Molecular Weight. Next generation of chemical hoses after cross-linked polyethylene having a thin tube liner made from extremely dense material giving it excellent chemical resistance properties.
Reinforcement	(1) The strengthening members, consisting of either fabric, cord, and/or metal, of a hose; (2) The non-rubber elements of a hose.	UN	Unified National Thread
Reusable Fitting	The type of fitting that is designed to be removed from a hose and recoupled on another hose.	UNO	UN O Ring (O Ring Boss)
RMA	Rubber Manufacturers Association	UNOM	UNO Male (O Ring Boss Male)
RPM	Revolutions Per Minute	UNOMEXT	UNO Male Extended (O Ring Boss Male Extended)
RQP	RYCO Quality Product	USCG	United States Coast Guard
SAE	Society of Automotive Engineers (USA)	WOG	Water, Oil, Gas. Pressure rating for valves handling these products. This does not include steam.
SAE Threads	Similar to JIC except 45° conical sealing surfaces.	WEO	Cjen AB Registered Trademark
SAEFS	SAE Female Swivel	WP	Working Pressure
SAEM	SAE Male	Working Pressure	The maximum pressure to which a hose assembly will be subjected to including pressure surges.
SCFM	Standard Cubic Feet per Minute. Typically refers to the amount of compressed air a compressor can produce.	XLPE	Cross-Linked Polyethylene. Tube material that has good chemical resistance properties.
Safety Factor	A ratio used to establish the working pressure of a hose based upon the burst pressure. Typical Safety Factors are as follows: 1. Water hose up to 150 psi; working pressure 3:1. 2. Hose for all other liquids, solid materials suspended in liquids or air and water hose over 150 psi; working pressure 4:1. 3. Hose for compressed air and other gases: 4 to 1. 4. Hose for liquid media that immediately changes into gas under standard atmospheric conditions: 5:1. 5. Steam hose: 10:1.	Yarn	A generic term for continuous strands of textile fibers or filaments in a form suitable for knitting, weaving, or otherwise interwining to form a textile fabric. It may comprise: (a) a number of fibers twisted together, (b) a number of filaments laid together without twist (a zero-twist yarn), (c) a number of filaments laid together with more or less twist, (d) a single filament with or without twist (a mono-filament), or (e) one or more strips made by the lengthwise division of a sheet of material, such as a natural or synthetic polymer, a paper or metal foil used with or without twist in a textile construction.
Serration	The part of the shank (stem) that grips the hose tube.	°C	Degrees Celcius
		°F	Degrees Fahrenheit
		β	Beta (filtration)
		μ	Micron

RYCO LOCATIONS

RYCO 24•7 SERVICE CENTRES

AUSTRALIA

1-300-111-247
Sales@RYCO.com.au

GLOBAL HEAD OFFICE MELBOURNE

19 Whitehall Street
Footscray, VIC 3011

REGIONAL LOCATIONS ADELAIDE

BL Shipway & Co
217 Richmond Road
Richmond, SA 5033

BLACKWATER

6 Jarrah Street
Blackwater, QLD 4717

PERTH

47 Tacoma Circuit
Canning Vale, WA 6155

BRISBANE

97 Northlink Place
Northgate, QLD 4013

NEWCASTLE

14 Ironbark Close
Warabrook, NSW 2304

SYDNEY

78 Hassall Street
Wetherill Park, NSW 2164

RYCO 24•7

133•24•7

Sales@RYCO247.com.au

NSW

Bellingen
Gregory Hills
Gunnedah
Ingleburn
Maitland
Mascot
Newcastle
Penrith
Rutherford
Wallerawang

QLD

Blackwater
Clermont
Dysart
Emerald
Mackay
Moranbah
Rocklea

SA & NT

Adelaide
Cowell
Darwin
Kadina
Kapunda
Loxton
Port Pirie
Richmond
Riverland
Roxby Downs
Whyalla

VIC & TAS

Melbourne
Warrnambool
Devonport
Launceston
Scottsdale

WA

Kalgoorlie
Mandurah
Newman
North Perth
Perth
Port Hedland

NEW ZEALAND

+64 9 573 2680
Sales@RYCOnz.co.nz

NEW ZEALAND HEAD OFFICE AUCKLAND

Unit 1, 707 Great South Road
Penrose, Auckland 1061

RYCO 24•7

0800•111•24•7

Sales@RYCO247.co.nz

NORTH ISLAND

Gisborne
Hamilton
Hastings
Kaikohe
Manawatu
Masterton
Matamata
Morrinsville
New Plymouth
Opoutama
Otorohanga
Palmerston North
Pukekohe
Putaruru
Taupo
Tauranga

SOUTH ISLAND

Christchurch
Blenheim
Bluff
Dovedale
Dunedin
Golden Bay
Gore
Invercargill
Nelson
Thornbury
Timaru
Westport
Winton

USA & CANADA

+1 866 821 7926
Sales@RYCO.us

HEAD OFFICE USA & CANADA TEXAS

1616 Greens Road
Houston, Texas 77032

REGIONAL LOCATIONS CALIFORNIA

1150 Valencia Avenue
Tustin, California 92780

NEW JERSEY

1274 Highway 77
Bridgeton, NJ 08302

IOWA

1007 West 10th Street
Pella, Iowa 50219

ONTARIO

32 Airpark Place
Guelph, ONT
Canada N1L 1B2

RYCO 24•7

1 844•700•0247

Sales@RYCO247.us

BILLINGS

421 North
24th Street
Billings
MT 59101

BECKLEY

258 Ragland Rd
Beckley
WV 25801

BOSSIER CITY

3210 Shed Road
Bossier City
LA 71111

HAMMOND

6718 Kennedy Av
Hammond
IN 46323

MICHIGAN CITY

1306 West
Highway 20
Michigan City
IN 46360

Tel +1 406 245 1143 Tel +1 681 238 5757 Tel +1 318 747 7926 Tel +1 219 844 6570 Tel +1 219 844 6570

CHINA

DALIAN

38 Yingri Road
Ying Cheng Zi Industrial Zone,
Gan Jing Zi District
Dalian 116036, China

SINGAPORE

SINGAPORE

6 Battery Road
Level 42, Six Battery Road
049909, Singapore

MALAYSIA

PENANG

Plot 207 Kuala Ketil Ind.
Estate Kuala Ketil, Kedah,
09300, Malaysia

UNITED KINGDOM

UNITED KINGDOM

17B St Marys Road
Sydenham Industrial Estate
Leamington Spa
Warwickshire, CV31 1PR
United Kingdom

LATIN AMERICA

LIMA, PERU

Av. La Encalada 569 Of. 201-A
C.C. Monterrico Surco
Lima 33, Peru

SOUTH AFRICA

JOHANNESBURG

340 Roan Crescent
Corporate Park North
Randjespark, Midrand
1685, South Africa

Tel: +86 411 8886 0006
Email: Sales@RYCO.cn

Tel: +65 6483 5655
Email: Sales@RYCO.com.sg

Tel: +60 4 415 2500
Email: Sales@RYCO.com.sg

Tel: +44 (0) 1926 423 408
Email: Sales@RYCO.eu

Tel: +51 1 435 8323
Email: Ventas@RYCO.com.pe

Tel: +27 10 4100 500
Email: Sales@RYCO.co.za