



Confirmation of Product Type Approval

Company Name: MANULI RYCO HYDRAULICS SDN. BHD.

Address: PLOT207, KUALA KETIL INDUSTRIAL ESTATE, KUALA KETIL, KEDAH DARUL AMAN
09300 Malaysia

Product: Flexible Hose

Model(s): BT1, DF1D, DK1D, DK1S, DF2D, DK2D, DK2S, H3000D, H4000D, H5000D, H6000D, H3000S, H4000S, H5000C, H5000S, H6000S, RQP1, RQP2, RTH1, SRF, SRX, TXA2D, T1D, T1F, T1S, T2C, T2D, T2S, T5, T3000D, T4000D, T5000D, T6000D, T3000S, T3600C, T3600D, T3600S, T4000S, T5000S and T6000S

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	23-2479252-PDA-DUP	14-DEC-2023	13-DEC-2028
Manufacturing Assessment (MA)	21-4900712	17-AUG-2021	22-AUG-2026
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

For use on ships and offshore installations, as short lengths in fresh water, seawater, hydraulic, pneumatic, fuel oil and lube oil systems.

Description

Tube of oil resistant synthetic rubber with one or more high tensile steel wire braid/s or textile braid/s or four/six wire spirals and synthetic rubber cover.

Ratings

See attached document.

Service Restrictions

1. Unit certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

2. Flexible hoses are not acceptable in high pressure fuel oil injection systems. See 4-6-2/5.7.2 of the ABS Marine Vessels Rules.

Comments

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. The flexible hoses are to be installed in accordance with the manufacturer's procedures and are to be permanently marked by the manufacturer in accordance to 4-6-2/5.7.6 of ABS Marine Vessels Rules.
3. Rubber hoses intended for use in bilge, ballast, compressed air, oil fuel, lubricating, hydraulic and thermal oil systems are to incorporate a single or double closely woven integral wire braid or other suitable material reinforcement. Rubber hoses intended for use in oil supply lines to burners, the hoses are to have external wire braid protection in addition to the integral reinforcement. See 4-6-2/5.7.3 of ABS Marine Vessels Rules
4. The use of hose clamps and similar types of end attachments is not acceptable for flexible hoses in piping systems for steam, flammable media, starting air or for sea water where failure may result in flooding. In other piping systems, the use of hose clamps may be accepted where the working pressure is less than 5 bar (5.1 kgf/cm², 72.5 psi) and provided there are at least two stainless steel hose clamps at each end connection. The hose clamps are to be at least 12 mm (0.5 in.) wide and are not to be dependent upon spring tension to remain fastened. See 4-6-2/5.7.3 (b) 4-6-4/13.7 and 4-6-4/15.5.1 of ABS Marine Vessels Rules.

Notes, Drawings and Documentation

Drawing No. Crimping, RHMY-LT-016-KK Crimping process

Drawing No. Datasheet, RYCO Hose Datasheet

Drawing No. Hose table, Flexible Hose Table

Drawing No. Test, RHMY test reports (ABS)

Drawing No. Datasheet, Ryco Flexible Hose

Drawing No. Burst Test Reports, Ryco Burst Test Reports

Drawing No. Fire Test Reports - 2005, Ryco Fire Test Reports

Drawing No. Fire Test Reports - 2006, Ryco Fire Test Reports

Drawing No. Fire Test Reports - 2012, Ryco Fire Test Reports

Drawing No. Fire Test Reports - 2013, Ryco Fire Test Reports

Drawing No. Fire Test Reports - 2014, Ryco Fire Test Reports

Drawing No. Fire Test Reports - 2016, Ryco Fire Test Reports

Drawing No. Fire Test Reports - 2017, Ryco Fire Test Reports

Drawing No. Fire Test Reports - 2018, Ryco Fire Test Reports

Drawing No. Impulse Test Reports, Ryco Impulse Test Reports

Drawing No. Burst and Impulse Test Reports, Ryco Burst and Impulse Test Reports

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 13/Dec/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract

for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

2023 Rules for Conditions of Classification 1-1-4/7.7, 1-1-Appendix 3 and 1-1-Appendix 4, which covers the following:

2023 Rules for Building and Classing Marine Vessels 4-6-2/5.5 and 4-6-2/5.7

2023 Rules for Conditions of Classification - Offshore Units and Structures 1-1-4/9.7, 1-1-Appendix 2 and 1-1-Appendix 3, which covers the following:

2023 Rules for Building and Classing Mobile Offshore Units 4-2-1/11.11 and 4-2-1/11.29,

2023 Rules for Conditions of Classification - Light and High-Speed Craft 1-1-4/11.9, 1-1-Appendix 2 and 1-1-Appendix 3, which covers the following:

2023 Rules for Building and Classing High Speed Craft 4-4-1/9.19

International Standards

NA

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in black ink, appearing to read "Joseph W. Wilson".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 07-Nov-2024 4:01

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.

HOSE/FITTING COMBINATION									
PAGE NO	HOSE	REFERENCE SPECIFICATION	DN	WP [bar]	INSERT	SKIVE FERRULE	ONE PIECE		FIELD ATT
							NON SKIVE FERRULE		
122	BT1	Meets or Exceeds the Performance Requirements of: SAE J1527 Type Class I, USCG SAE J1942, SAE J30R2 (non-marine). Meets SAE J30R2 performance requirements for non-marine applications and SAE J1527 Type Class I and USCG SAEJ1942 for marine applications	6	50	NON-SKIVE ONE-PIECE CRIMP T2000 Series (sizes -04 to -16) pages 189 to 234. Assembly Instructions pages 480. FIELD ATTACHABLE NON-SKIVE 6000 SERIES insert (sizes -04 to -16) pages 252 to 273. K000 Series ferrule (sizes -04 to -16) page 355. Assembly Instructions page 478	-	T2000	-	6000 (K000)
			8	50		-	T2000	-	6000 (K000)
			10	50		-	T2000	-	6000 (K000)
			12	50		-	T2000	-	6000 (K000)
			16	50		-	T2000	-	6000 (K000)
			19	50		-	T2000	-	6000 (K000)
			25	50		-	T2000	-	6000 (K000)
84	DF1D	Meets or Exceeds the Performance Requirements of: EN 857 Type 1SC, ISO 11237 Type 1SC	6	225	-	-	T2000	-	-
			8	215		-	T2000	-	-
			10	180		-	T2000	-	-
			12	160		-	T2000	-	-
			16	130		-	T2000	-	-
			19	105		-	T2000	-	-
			25	90		-	T2000	-	-
85	DF2D	Meets or Exceeds the Performance Requirements of: EN 857 Type 2SC, ISO 11237 Type 2SC, SAE 100R16. (-20 size SAE 100R16 only).	6	225	-	-	T2000	-	-
			8	215		-	T2000	-	-
			10	180		-	T2000	-	-
			12	160		-	T2000	-	-
			16	130		-	T2000	-	-
			19	105		-	T2000	-	-
			25	90		-	T2000	-	-
86	DK1D	Exceeds the Performance Requirements of: EN 857 Type 1SC, ISO 11237 Type 1SC.	6	295	-	-	T2000	-	-
			8	250		-	T2000	-	-
			10	230		-	T2000	-	-
			12	200		-	T2000	-	-
			16	150		-	T2000	-	-
			19	125		-	T2000	-	-
			25	110		-	T2000	-	-
31	100	-	T2000	-	-				
88	DK1S	Exceeds the Performance Requirements of: EN 857 Type 1SC, ISO 11237 Type 1SC.	6	295	-	-	T2000	-	-
			8	250		-	T2000	-	-
			10	230		-	T2000	-	-
			12	200		-	T2000	-	-
			16	150		-	T2000	-	-
			19	125		-	T2000	-	-
			25	110		-	T2000	-	-
31	100	-	T2000	-	-				
89	DK2D	Exceeds the Performance Requirements of: EN 857 Type 2SC, ISO 6805 Type 1 & Type 2, ISO 6805 Type 4 (sizes -10 and above), ISO 11237 Type 2SC.	6	450	-	-	T2000	-	-
			8	420		-	T2000	-	-
			10	385		-	T2000	-	-
			12	345		-	T2000	-	-
			16	290		-	T2000	-	-
			19	280		-	T2000	-	-
			25	200		-	T2000	-	-
31	175	-	T2000	-	-				
91	DK2S	Exceeds the Performance Requirements of: EN 857 Type 2SC, ISO 6805 Type 1 & Type 2, ISO 6805 Type 4 (sizes -10 and above), ISO 11237 Type 2SC.	6	450	-	-	T2000	-	-
			8	420		-	T2000	-	-
			10	385		-	T2000	-	-
			12	345		-	T2000	-	-
			16	290		-	T2000	-	-
			19	280		-	T2000	-	-
			25	200		-	T2000	-	-
31	175	-	T2000	-	-				

HOSE/FITTING COMBINATION									
PAGE NO	HOSE	REFERENCE SPECIFICATION	DN	WP [bar]	INSERT	SKIVE FERRULE	ONE PIECE		FIELD ATT
							NON SKIVE FERRULE		
73	H3000D	Meets or Exceeds the Performance Requirements of: EN 856 Type R12, EN 856 Type 4SP, ISO 18752-DC, SAE 100R12	31	215	-	-	T7000	-	-
			38	215		-	T7000	-	-
			51	215		-	T7000	-	-
74	H3000S	Meets or Exceeds the Performance Requirements of: EN 856 Type R12, EN 856 Type 4SP, ISO 18752-DC, SAE 100R12	31	215	-	-	T7000	-	-
			38	215		-	T7000	-	-
			51	215		-	T7000	-	-
75	H4000D	Meets or Exceeds the Performance Requirements of: EN 856 Type R12, EN 856 Type 4SP (size DN25, -16), ISO 18752-DC, SAE 100R12.	10	280	-	-	T7000	-	-
			12	280		-	T7000	-	-
			16	280		-	T7000	-	-
			19	280		-	T7000	-	-
			25	280		-	T7000	-	-
			31	280		-	T7000	-	-
			38	280		-	T7000	-	-
			51	280		-	T7000	-	-
76	H4000S	Meets or Exceeds the Performance Requirements of: EN 856 Type R12, EN 856 Type 4SP (size DN25, -16), ISO 18752-DC, SAE 100R12.	10	280	-	-	T7000	-	-
			12	280		-	T7000	-	-
			16	280		-	T7000	-	-
			19	280		-	T7000	-	-
			25	280		-	T7000	-	-
			31	280		-	T7000	-	-
			38	280		-	T7000	-	-
			51	280		-	T7000	-	-
77	H5000C	Meets or Exceeds the Performance Requirements of: EN 856 Type R13, ISO 18752-CC, SAE100R13.	19	350	-	-	T7000	-	-
			25	350		-	T7000	-	-
			31	350		-	T7000	-	-
			38	350		-	T7000	-	-
78	H5000D	Meets or Exceeds the Performance Requirements of: EN 856 Type R13, ISO 18752-CC, SAE100R13.	10	350	-	-	-	T7000	-
			12	350		-	-	T7000	-
			16	350		-	-	T7000	-
			19	350		-	T6000	T7000	-
			25	350		-	T6000	T7000	-
			31	350		-	T6000	T7000	-
			38	350		-	T6000	T7000	-
			51	350		-	T6000	-	-
79	H5000S	Meets or Exceeds the Performance Requirements of: EN 856 Type R13, ISO 18752-CC, SAE100R13.	10	350	-	-	-	T7000	-
			12	350		-	-	T7000	-
			16	350		-	-	T7000	-
			19	350		-	T6000	T7000	-
			25	350		-	T6000	T7000	-
			31	350		-	T6000	T7000	-
			38	350		-	T6000	T7000	-
			51	350		-	T6000	-	-
80	H6000D	Meets or Exceeds the Performance Requirements of: EN 856 Type R15, ISO 18752-CC, SAE 100R15	10	420	-	-	-	T7000	-
			12	420		-	-	T7000	-
			16	420		-	-	T7000	-
			19	420		-	T6000	T7000	-
			25	420		-	T6000	T7000	-
			31	420		-	T6000	T7000	-
			38	420		-	T6000	T7000	-
			51	420		-	T6000	-	-
81	H6000S	Meets or Exceeds the Performance Requirements of: ISO 3862 Type R15, ISO 18752-CC, SAE 100R15	10	420	-	-	-	T7000	-
			12	420		-	-	T7000	-
			16	420		-	-	T7000	-
			19	420		-	T6000	T7000	-
			25	420		-	T6000	T7000	-
			31	420		-	T6000	T7000	-
			38	420		-	T6000	-	-
			51	420		-	T6000	-	-

HOSE/FITTING COMBINATION									
PAGE NO	HOSE	REFERENCE SPECIFICATION	DN	WP [bar]	INSERT	SKIVE FERRULE	ONE PIECE		FIELD ATT
							NON SKIVE FERRULE		
113	RQP1	Meets or Exceeds the Performance Requirements of: AS 3791 100R1AT, DIN 20022-1SN, EN 853 Type 1SN, ISO 1436 Types R1AT & 1SN, SAE 100R1AT	6	225	NON-SKIVE ONE-PIECE CRIMP T2000 Series (sizes -04 to -16) pages 189 to 234. Assembly Instructions pages 480. FIELD ATTACHABLE NON-SKIVE* 6000 SERIES insert (sizes -04 to -16) pages 252 to 273. K000 Series ferrule (sizes -04 to -16) page 355. Assembly Instructions page 478	-	T2000	-	6000 (K000)
			8	215		-	T2000	-	-
			10	180		-	T2000	-	6000 (K000)
			12	160		-	T2000	-	6000 (K000)
			16	130		-	T2000	-	6000 (K000)
			19	120		-	T2000	-	6000 (K000)
			25	90		-	T2000	-	6000 (K000)
114	RQP2	Meets or Exceeds the Performance Requirements of: AS 3791 100R2AT, DIN 20022-2SN, EN 853 Type 2SN, ISO 1436 Types R2AT & 2SN, SAE 100R2AT.	6	400	NON-SKIVE ONE-PIECE CRIMP T2000 Series (sizes -04 to -32) pages 189 to 234. T7000 Series (sizes -06 to -32) pages 274 to 304. Assembly Instructions pages 480. FIELD ATTACHABLE NON-SKIVE* 6000 SERIES insert (sizes -04 to -20) pages 252 to 273. L000 Series ferrule (sizes -04 to -20) page 355. Assembly Instructions page 478	-	T2000	-	6000 (L000)
			8	350		-	T2000	-	-
			10	350		-	T2000	T7000	6000 (L000)
			12	300		-	T2000	T7000	6000 (L000)
			16	250		-	T2000	T7000	6000 (L000)
			19	215		-	T2000	T7000	6000 (L000)
			25	167		-	T2000	T7000	6000 (L000)
			31	150		-	T2000	T7000	6000 (L000)
			38	100		-	T2000	T7000	-
			51	90		-	T2000	T7000	-
130	RTH1	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.	6	170	-	-	TT000		
			10	165		-	TT000		
			12	120		-	TT000		
			16	105		-	TT000		
			19	85		-	TT000		
			25	55		-	TT000		
128	SRF	Meets or Exceeds the Performance Requirements of: AS 3791 100R4, SAE 100R4	19	21	-	-	T4000	-	-
			25	17		-	T4000	-	-
			31	14		-	T4000	-	-
			38	11		-	T4000	-	-
			51	7		-	T4000	-	-
129	SRX	Meets or Exceeds the Performance Requirements of: AS 3791 100R4, SAE 100R4.	19	21	-	-	T4000	-	-
			25	17		-	T4000	-	-
			31	14		-	T4000	-	-
			38	11		-	T4000	-	-
			51	7		-	T4000	-	-
			63	4		-	T4000	-	-
			76	4		-	T4000	-	-
98	T1D	Meets or Exceeds the Performance Requirements of: AS 3791 100R1AT, DIN 20022-1SN, EN 853 Type 1SN, ISO 1436 Types R1AT & 1SN, SAE 100R1AT	5	250	NON-SKIVE ONE-PIECE CRIMP T2000 Series (sizes -03 to -32) pages 189 to 234. Assembly Instructions pages 480. FIELD ATTACHABLE NON-SKIVE 6000 SERIES insert (sizes -03 to -16) pages 252 to 273. K000 Series ferrule (sizes -03 to -16) page 355. Assembly Instructions page 478	-	T2000		6000 (K000)
			6	225		-	T2000	-	6000 (K000)
			8	215		-	T2000	-	-
			10	180		-	T2000	-	6000 (K000)
			12	160		-	T2000	-	6000 (K000)
			16	130		-	T2000	-	6000 (K000)
			19	105		-	T2000	-	6000 (K000)
			25	90		-	T2000	-	6000 (K000)
			31	65		-	T2000	-	6000 (K000)
			38	50		-	T2000	-	6000 (K000)
51	40	-	T2000	-	-				
100	T1F	Meets or Exceeds the Performance Requirements of: AS 3791 100R1AT, DIN 20022-1SN, EN 853 Type 1SN, ISO 1436 Types R1AT & 1SN, SAE 100R1AT	5	250	NON-SKIVE ONE-PIECE CRIMP T2000 Series (sizes -03 to -16) pages 189 to 234. Assembly Instructions pages 480. FIELD ATTACHABLE NON-SKIVE 6000 SERIES insert (sizes -03 to -16) pages 252 to 273. K000 Series ferrule (sizes -03 to -16) page 355. Assembly Instructions page 478	-	T2000		6000 (K000)
			6	225		-	T2000	-	6000 (K000)
			8	215		-	T2000	-	-
			10	180		-	T2000	-	6000 (K000)
			12	160		-	T2000	-	6000 (K000)
			16	130		-	T2000	-	6000 (K000)
			19	105		-	T2000	-	6000 (K000)
			25	90		-	T2000	-	6000 (K000)

HOSE/FITTING COMBINATION													
PAGE NO	HOSE	REFERENCE SPECIFICATION	DN	WP [bar]	INSERT	SKIVE FERRULE	ONE PIECE		FIELD ATT				
							NON SKIVE FERRULE						
99	T1S	Meets or Exceeds the Performance Requirements of: AS 3791 100R1AT, DIN 20022-1SN, EN 853 Type 1SN, ISO 1436 Types R1AT & 1SN, SAE 100R1AT	5	250	-	-	T2000	-	-				
			6	225		-	T2000	-	-				
			8	215		-	T2000	-	-				
			10	180		-	T2000	-	-				
			12	160		-	T2000	-	-				
			16	130		-	T2000	-	-				
			19	105		-	T2000	-	-				
			25	90		-	T2000	-	-				
			31	65		-	T2000	-	-				
			38	50		-	T2000	-	-				
			51	40		-	T2000	-	-				
			103	T2C		Meets or Exceeds the Performance Requirements of: AS 3791 100R2AT, DIN 20022-2SN, EN 853 Type 2SN, ISO 1436 Types R2AT & 2SN, SAE 100R2AT	6	420	-	-	T2000	-	-
8	350	-			T2000		-	-					
10	350	-			T2000		-	-					
12	350	-			T2000		-	-					
16	250	-			T2000		-	-					
19	215	-			T2000		-	-					
25	175	-			T2000		-	-					
31	140	-			T2000		-	-					
38	100	-			T2000		-	-					
51	90	-			T2000		-	-					
101	T2D	Meets or Exceeds the Performance Requirements of: AS 3791 100R2AT, DIN 20022 - 2SN, EN 853 Type 2SN, ISO 1436 Types R2AT & 2SN, SAE 100R2AT			6		420	NON-SKIVE ONE-PIECE CRIMP T2000 Series (sizes -04 to -48) pages 189 to 234. T7000 Series (sizes -06 to -32) pages 274 to 304. Assembly Instructions pages 480. FIELD ATTACHABLE NON-SKIVE 6000 SERIES insert (sizes -04 to -20) pages 252 to 273. L000 Series ferrule (sizes -04 to -20) page 355. Assembly Instructions page 478		-	T2000	-	6000 (L000)
					8		350			-	T2000	-	-
			10	350	-	T2000	T7000		6000 (L000)				
			12	350	-	T2000	T7000		6000 (L000)				
			16	250	-	T2000	T7000		6000 (L000)				
			19	215	-	T2000	T7000		6000 (L000)				
			25	175	-	T2000	T7000		6000 (L000)				
			31	140	-	T2000	T7000		6000 (L000)				
			38	100	-	T2000	T7000		-				
			51	90	-	T2000	T7000		-				
			63	70	-	T2000	-		-				
			76	70	-	T2000	-		-				
102	T2S	Meets or Exceeds the Performance Requirements of: AS 3791 100R2AT, DIN 20022-2SN, EN 853 Type 2SN, ISO 1436 Type 2AT, SAE 100R2A	6	420	NON-SKIVE ONE-PIECE CRIMP T2000 Series (sizes -04 to -32) pages 189 to 234. T7000 Series (sizes -05 to -32) pages 274 to 304. Assembly Instructions pages 480	-	T2000	-	-				
			8	350		-	T2000	-	-				
			10	350		-	T2000	T7000	-				
			12	350		-	T2000	T7000	-				
			16	250		-	T2000	T7000	-				
			19	215		-	T2000	T7000	-				
			25	175		-	T2000	T7000	-				
			31	140		-	T2000	T7000	-				
			38	100		-	T2000	T7000	-				
			51	90		-	T2000	T7000	-				
			118	T5		Meets or Exceeds the Performance Requirements of: AS 3791 100R5, SAE 100R5, SAE J1402 Type All (up to -12 size)	5	840	NON-SKIVE ONE-PIECE CRIMP T4000 Series (Sizes -04 to -20) pages 235 to 251. Assembly Instructions pages 480. FIELD ATTACHABLE NON-SKIVE V000 Series (sizes -04 to -32) pages 343 to 354. Assembly Instructions page 478	-	T4000	-	V000
							6	840		-	T4000	-	V000
8	628	-			T4000		-	V000					
10	560	-			T4000		-	V000					
2	488	-			T4000		-	V000					
16	420	-			T4000		-	V000					
22	224	-			T4000		-	V000					
28	172	-			T4000		-	V000					
35	140	-			T4000		-	V000					
46	96	-			T4000		-	V000					
62	T3000D	Meets or Exceeds the Performance Requirements of: ISO 18752-BC, SAE 100R17.			6		245	-		-	T2000	-	-
					8		245			-	T2000	-	-
			10	215	-	T2000	-		-				
			12	215	-	T2000	-		-				
			16	215	-	T2000	-		-				
			19	215	-	T2000	-		-				
			25	215	-	T2000	-		-				

HOSE/FITTING COMBINATION									
PAGE NO	HOSE	REFERENCE SPECIFICATION	DN	WP [bar]	INSERT	SKIVE FERRULE	ONE PIECE		FIELD ATT
							NON SKIVE FERRULE		
63	T3000S	Meets or Exceeds the Performance Requirements of: ISO 18752-BC, SAE 100R17	6	245	-	-	T2000	-	-
			8	245		-	T2000	-	-
			10	215		-	T2000	-	-
			12	215		-	T2000	-	-
			16	215		-	T2000	-	-
			19	215		-	T2000	-	-
			25	215		-	T2000	-	-
64	T3600C	Meets or Exceeds the Performance Requirements of: ISO 18752-BC.	6	250	-	-	T2000	-	-
			8	250		-	T2000	-	-
			10	250		-	T2000	-	-
			12	250		-	T2000	-	-
			16	250		-	T2000	-	-
			19	250		-	T2000	-	-
			25	250		-	T2000	-	-
65	T3600D	Meets or Exceeds the Performance Requirements of: ISO 18752-BC.	6	250	-	-	T2000	-	-
			8	250		-	T2000	-	-
			10	250		-	T2000	-	-
			12	250		-	T2000	-	-
			16	250		-	T2000	-	-
			19	250		-	T2000	-	-
			25	250		-	T2000	-	-
66	T3600S	Meets or Exceeds the Performance Requirements of: ISO 18752-BC.	6	250	-	-	T2000	-	-
			8	250		-	T2000	-	-
			10	250		-	T2000	-	-
			12	250		-	T2000	-	-
			16	250		-	T2000	-	-
			19	250		-	T2000	-	-
			25	250		-	T2000	-	-
67	T4000D	Meets or Exceeds the Performance Requirements of: ISO 18752-BC, SAE 100R19.	6	280	-	-	T2000	-	-
			8	280		-	T2000	-	-
			10	280		-	T2000	-	-
			12	280		-	T2000	-	-
			16	280		-	T2000	-	-
			19	280		-	T2000	-	-
68	T4000S	Meets or Exceeds the Performance Requirements of: ISO 18752-BC, SAE 100R19.	6	280	-	-	T2000	-	-
			8	280		-	T2000	-	-
			10	280		-	T2000	-	-
			12	280		-	T2000	-	-
			16	280		-	T2000	-	-
			19	280		-	T2000	-	-
69	T5000D	Meets or Exceeds the Performance Requirements of: ISO 18752-BC.	6	350	-	-	T2000	-	-
			8	350		-	T2000	-	-
			10	350		-	T2000	-	-
			12	350		-	T2000	-	-
70	T5000S	Meets or Exceeds the Performance Requirements of: ISO 18752-BC.	6	350	-	-	T2000	-	-
			8	350		-	T2000	-	-
			10	350		-	T2000	-	-
			12	350		-	T2000	-	-
71	T6000D	Meets or Exceeds the Performance Requirements of: ISO 18752-BC.	6	420	-	-	T2000	-	-
			8	420		-	T2000	-	-
			10	420		-	T2000	-	-
72	T6000S	Meets or Exceeds the Performance Requirements of: ISO 18752-BC.	6	420	-	-	T2000	-	-
			8	420		-	T2000	-	-
			10	420		-	T2000	-	-
104	TXA2D	Meets or Exceeds the Performance Requirements of: AS 3791 100R2AT, BCS 174, DIN 20022-2SN, EN 853 Type 2SN, ISO 1436 Types R2AT & 2SN, SAE 100R2AT	12	37	NON-SKIVE ONE-PIECE CRIMP T2000 Series (sizes -08 to -16) pages 189 to 234. T7000 Series (sizes -08 to -16) pages 274 to 304. Assembly Instructions pages 480. FIELD ATTACHABLE NON-SKIVE 6000 SERIES insert (sizes -08 to -16) pages 252 to 273. L000 Series ferrule (sizes -08 to -16) page 355. Assembly Instructions page 478	-	T2000	T7000	6000 (L000)
			16	350		-	T2000	T7000	6000 (L000)
			19	313		-	T2000	T7000	6000 (L000)
			25	225		-	T2000	T7000	6000 (L000)