HYDRAULIC HOSE

HOSE

PICTORIAL INDEX

	HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	PERFORMANCE SPECIFICATIONS MET OR EXCEEDED	COUPLING SERIES
ISOBARIC BRAID							
61	**T3000A** AVENGER™		**-04 to -16** 1/4" to 1"	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. One or two braids of high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	ISO 18752-BC SAE 100R17	T1000 T2000
62	**T3000D** DIEHARD™		**-04 to -16** 1/4" to 1"	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. One or two braids of high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	ISO 18752-BC SAE 100R17	T1000 T2000
63	**T3000S** SLIDER™		**-04 to -16** 1/4" to 1"	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. One or two braids of high tensile steel wire reinforcement. Synthetic rubber cover sheathed with a layer of extremely abrasion resistant polyethylene cover.	ISO 18752-BC SAE 100R17	T1000 T2000
64	**T3600A** AVENGER™		**-04 to -16** 1/4" to 1"	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. One or two braids of high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	ISO 18752-BC	T1000 T2000
65	**T3600D** DIEHARD™		**-04 to -16** 1/4" to 1"	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. One or two braids of high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	ISO 18752-BC	T1000 T2000
66	**T3600S** SLIDER™		**-04 to -16** 1/4" to 1"	High pressure hydraulic oil lines.	Oil resistant synthetic rubber. One or two braids of high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene cover.	ISO 18752-BC	T1000 T2000
67	**T4000A** AVENGER™		**-04 to -12** 1/4" to 3/4"	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. One or two braids of high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	ISO 18752-AC SAE 100R19	T2000
68	**T4000D** DIEHARD™		**-04 to -12** 1/4" to 3/4"	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. One or two braids of high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	ISO 18752-AC SAE 100R19	T2000
69	**T4000S** SLIDER™		**-04 to -12** 1/4" to 3/4"	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. One or two braids of high tensile steel wire reinforcement. Synthetic rubber cover sheathed with a layer of extremely abrasion resistant polyethylene.	ISO 18752-AC SAE 100R19	T2000
70	**T5000A** AVENGER™		**-04 to -08** 1/4" to 1/2"	Very high pressure hydraulic oil lines.	Black, oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Black, oil and abrasion resistant synthetic rubber cover.	ISO 18752-AC	T2000
71	**T5000D** DIEHARD™		**-04 to -08** 1/4" to 1/2"	Very high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	ISO 18752-AC	T2000
72	**T5000S** SLIDER™		**-04 to -08** 1/4" to 1/2"	Very high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Synthetic rubber cover sheathed with a layer of extremely abrasion resistant polyethylene.	ISO 18752-AC	T2000

HOSE SERIES			INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	PERFORMANCE SPECIFICATIONS MET OR EXCEEDED	COUPLING SERIES
ISOBARIC BRAID (CONT)							
73	**T6000A** AVENGER™		**-04 to -06** 1/4″ to 3/8″	Extremely high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	ISO 18752-AC	T2000
74	**T6000D** DIEHARD™		**-04 to -06** 1/4″ to 3/8″	Extremely high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	ISO 18752-AC	T2000
75	**T6000S** SLIDER™		**-04 to -06** 1/4″ to 3/8″	Extremely high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Synthetic rubber cover sheathed with a layer of extremely abrasion resistant polyethylene.	ISO 18752-AC	T2000
ISOBARIC SPIRAL							
76	**H3000A** AVENGER™		**-20 to -32** 1.1/4″ to 2″	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four alternating layers of spiralled high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	EN 856 Type R12 EN 856 Type 4SP ISO 18752-DC SAE 100R12	T7000
77	**H3000D** DIEHARD™		**-20 to -32** 1.1/4″ to 2″	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four alternating layers of spiralled high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	EN 856 Type R12 EN 856 Type 4SP ISO 18752-DC SAE 100R12	T7000
78	**H3000S** SLIDER™		**-20 to -32** 1.1/4″ to 2″	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four alternating layers of spiralled high tensile steel wire reinforcement. Synthetic rubber cover sheathed with a layer of extremely abrasion resistant polyethylene.	EN 856 Type R12 EN 856 Type 4SP ISO 18752-DC SAE 100R12	T7000
79	**H4000A** AVENGER™		**-06 to -32** 3/8″ to 2″	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four or six alternating layers of spiralled high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	EN 856 Type R12 EN 856 Type 4SP (size DN25, -16) ISO 18752-DC SAE 100R12	T7000
80	**H4000D** DIEHARD™		**-06 to -32** 3/8″ to 2″	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four or six alternating layers of spiralled high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	EN 856 Type R12 EN 856 Type 4SP (size DN25, -16) ISO 18752-DC SAE 100R12	T7000
81	**H4000S** SLIDER™		**-06 to -32** 3/8″ to 2″	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four or six alternating layers of spiralled high tensile steel wire reinforcement. Synthetic rubber cover sheathed with a layer of extremely abrasion resistant polyethylene.	EN 856 Type R12 EN 856 Type 4SP (size DN25, -16) ISO 18752-DC SAE 100R12	T7000
82	**H5000A** AVENGER™		**-06 to -32** 3/8″ to 2″	Very high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four or six alternating layers of spiralled high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	EN 856 Type R13 ISO 18752-CC SAE 100R13	T7000 T9000
83	**H5000D** DIEHARD™		**-06 to -32** 3/8″ to 2″	Very high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four or six alternating layers of spiralled high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	EN 856 Type R13 ISO 18752-CC SAE100R13	T7000 T9000
84	**H5000S** SLIDER™		**-06 to -32** 3/8″ to 2″	Very high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four or six alternating layers of spiralled high tensile steel wire reinforcement. Synthetic rubber cover sheathed with a layer of extremely abrasion resistant polyethylene.	EN 856 Type R13 ISO 18752-CC SAE 100R13	T7000 T9000

HOSE

PICTORIAL INDEX

HOSE SERIES			INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	PERFORMANCE SPECIFICATIONS MET OR EXCEEDED	COUPLING SERIES
ISOBARIC SPIRAL (CONT)							
85	**H6000A** AVENGER™		-06 to -32 3/8″ to 2″	Extremely high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four, six or eight alternating layers of spiralled high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	EN 856 Type R15 ISO 18752-CC SAE 100R15	T7000 T9000 69000N (Skive)
86	**H6000D** DIEHARD™		-06 to -32 3/8″ to 2″	Extremely high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four, six or eight alternating layers of spiralled high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	EN 856 Type R15 ISO 18752-CC SAE 100R15	T7000 T9000 69000N (Skive)
87	**H6000S** SLIDER™		-06 to -32 3/8″ to 2″	Extremely high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four, six or eight alternating layers of spiralled high tensile steel wire reinforcement. Synthetic rubber cover sheathed with a layer of extremely abrasion resistant polyethylene.	ISO 3862 Type R15 ISO 18752-CC SAE 100R15	T7000 T9000 69000N (Skive)
BRAID							
88	**T1A** AVENGER™		-03 to -32 3/16″ to 2″	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	AS 3791 100R1AT DIN 20022-1SN EN 853 Type 1SN ISO 1436 Types R1AT & 1SN SAE 100R1AT	T2000 T7000 6000 (K000)
89	**T1D** DIEHARD™		-03 to -32 3/16″ to 2″	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	AS 3791 100R1AT DIN 20022-1SN EN 853 Type 1SN ISO 1436 Types R1AT & 1SN SAE 100R1AT	T2000 T7000 6000 (K000)
90	**T1S** SLIDER™		-03 to -32 3/16″ to 2″	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Synthetic rubber cover sheathed with a layer of extremely abrasion resistant polyethylene.	AS 3791 100R1AT DIN 20022-1SN EN 853 Type 1SN ISO 1436 Types R1AT & 1SN SAE 100R1AT	T2000 T7000
91	**T1F** FIRE SUPPRESSION		-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.	AS 3791 100R1AT DIN 20022-1SN EN 853 Type 1SN ISO 1436 Types R1AT & 1SN SAE 100R1AT	T2000 T7000 6000 (K000)
92	**T2A** AVENGER™		-04 to -48 1/4″ to 3″	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	AS 3791 100R2AT DIN 20022-2SN EN 853 Type 2SN ISO 1436 Types R2AT & 2SN SAE 100R2AT	T2000 T7000 6000 (L000)
93	**T2D** DIEHARD™		-04 to -48 1/4″ to 3″	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	AS 3791 100R2AT DIN 20022 - 2SN EN 853 Type 2SN ISO 1436 Types R2AT & 2SN SAE 100R2AT	T2000 T7000 6000 (L000)
94	**T2S** SLIDER™		-04 to -32 1/4″ to 2″	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Synthetic rubber cover sheathed with a layer of extremely abrasion resistant polyethylene.	AS 3791 100R2AT DIN 20022-2SN EN 853 Type 2SN ISO 1436 Type 2AT SAE 100R2AT	T2000 T7000
95	**T2C** ICEBREAKER		-04 to -32 1/4″ to 2″	High pressure hydraulic oil lines in applications where low temperature environmental conditions exist.	Specially formulated oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil resistant and abrasion resistant synthetic rubber cover.	AS 3791 100R2AT DIN 20022-2SN EN 853 Type 2SN ISO 1436 Types R2AT & 2SN SAE 100R2AT	T2000 T7000
96	**TXA2D** DIEHARD™		-08 to -16 1/2″ to 1″	Extra high pressure hydraulic oil lines where pressure exceeds 100R2 by at least 30%.	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	AS 3791 100R2AT BCS 174 DIN 20022-2SN EN 853 Type 2SN ISO 1436 Types R2AT & 2SN SAE 100R2AT	T2000 T7000 6000 (L000)

HOSE SERIES			INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	PERFORMANCE SPECIFICATIONS MET OR EXCEEDED	COUPLING SERIES
BRAID (CONT)							
97	**DF2A** AVENGER™		**-04 to -16** 1/4" to 1"	High pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	AS 3791 100R2AT EN 857 Type 2SC ISO 1436 SAE 100R2AT SAE 100R16	T2000
100	**E2** ENERGY		**-04 to -16** 1/4" to 1"	High pressure hydraulic oil lines	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil resistant synthetic rubber cover.	EN853 2SN SAE 100R2AT SAE 100R2S	T2000 T7000 6000 (L000)
98	**TJ2D** DIEHARD™ JACK		**-04 to -06** 1/4" & 3/8"	Hydraulic Jack applications requiring a light weight, small outside diameter hose.	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	Materials Handling Institute specification IJ 100 (July 1979)	T2000
SPIRAL							
101	**H12A** AVENGER™		**-06 to -32** 3/8" to 2"	Very high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four alternating layers of spiralled high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	AS 3791 100R12 EN 856 Type R12 EN 856 Type 4SP (-12 and above) ISO 3862 Type R12 SAE 100R12	T7000
102	**H12D** DIEHARD™		**-06 to -40** 3/8" to 2.1/2"	Very high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four alternating layers of spiralled high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	AS 3791 100R12 EN 856 Type R12 EN 856 Type 4SP (-12 and above) ISO 3862 Type R12 SAE 100R12	T7000
103	**H12S** SLIDER™		**-06 to -32** 3/8" to 3"	Very high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four alternating layers of spiralled high tensile steel wire reinforcement. Synthetic rubber cover sheathed with a layer of extremely abrasion resistant polyethylene.	AS 3791 100R12 EN 856 Type R12 EN 856 Type 4SP (-12 and above) ISO 3862 Type R12 SAE 100R12	T7000
104	**R4SHA** AVENGER™		**-12 to -32** 3/4" to 2"	Extra high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four alternating layers of spiralled high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	EN 856 Type 4SH ISO 3862 Type 4SH	T7000 T9000
105	**R4SHD** DIEHARD™		**-12 to -32** 3/4" to 2"	Extra high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four alternating layers of spiralled high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	EN 856 Type 4SH ISO 3862 Type 4SH	T7000 T9000
106	**R4SPA** AVENGER™		**-06 to -16** 3/8" to 1"	Extra high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four alternating layers of spiralled high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.	EN 856 Type 4SP ISO 3862 Type 4SP	T7000 (Skive)
107	**R4SPD** DIEHARD™		**-06 to -16** 3/8" to 1"	Extra high pressure hydraulic oil lines.	Oil resistant synthetic rubber tube. Four alternating layers of spiralled high tensile steel wire reinforcement. Oil and extra abrasion resistant synthetic rubber cover.	EN 856 Type 4SP ISO 3862 Type 4SP	T7000 (Skive)

HOSE

PICTORIAL INDEX

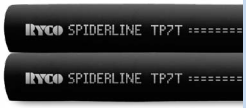
	HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	PERFORMANCE SPECIFICATIONS MET OR EXCEEDED	COUPLING SERIES
SPECIALTY AND HIGH TEMPERATURE							
108	**T5** TRUCKER		**-04 to -32** 1/4″ to 2″	Medium to high pressure hydraulic oil applications.	Oil resistant synthetic rubber tube. Polyester inner braid covered with one braid of high tensile steel wire reinforcement. Polyester braid cover.	AS 3791 100R5 SAE 100R5 SAE J1402 Type AII (up to -12 size)	T4000 V000
109	**D2B** DRILLER		**-24 to -32** 1.1/2″ to 2″	Hydraulic oil or air lines. Drill rigs - high pressure, large bore air hose.	Oil resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.		T7000
110	**MS1000** MINESPRAY		**-08 to -32** 1/2″ to 2″	Water and air spray suited for dust control in all industrial and mining applications.	Oil resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Oil resistant and abrasion resistant synthetic rubber cover.		T2000 T4000
111	**CS1000** COALSPRAY		**-08 to -32** 1/2″ to 2″	Water and air spray suited for dust control in all industrial and mining applications.	Oil resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Oil resistant and abrasion resistant synthetic rubber cover.		T2000 T4000
112	**BT1** BIOTRANS		**-04 to -16** 1/4″ to 1″	Transportation, marine fuel and engine hose applications.	Oil resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement.	SAE J1527 Type Class I SAE J30R2 (non-marine) USCG SAE J1942	T2000 6000 (K000)
114	**RQP1** SURVIVOR™		**-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.	AS 3791 100R1AT DIN 20022-1SN EN 853 Type 1SN ISO 1436 Types R1AT & 1SN SAE 100R1AT	T2000 T7000 6000 (K000)
115	**RQP2** SURVIVOR™		**-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.	AS 3791 100R2AT DIN 20022-2SN EN 853 Type 2SN ISO 1436 Types R2AT & 2SN SAE 100R2AT	T2000 T7000 6000 (L000)
116	**RQP5** SURVIVOR™		**-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.	AS 3791 100R5 SAE 100R5 SAE J1402 Type AII (up to -12 size)	T4000 V000
117	**RQP6** SURVIVOR™ PUSH-ON		**-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.	AS 3791 100R6 DIN 20021-1TE ISO 4079 Type 1 SAE 100R6	T4000 8000
PRESSURE WASHER							
118	**TW1** TORNADO WASHER		**-06 to -08** 3/8″ to 1/2″	Hot water pressure washer machines.	Oil resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Synthetic rubber; oil, chicken fat and abrasion resistant cover.		T2000
119	**PW2** PRESSURE WASHER		**-04 to -06** 1/4″ to 3/8″	Hot water pressure washer applications.	Heat resistant synthetic rubber tube. Two braids of high tensile steel wire reinforcement. Oil resistant and abrasion resistant synthetic rubber cover.		T2000

*Fitted as factory hose only

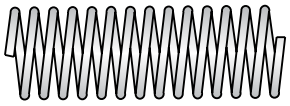
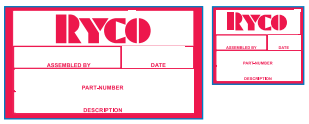
HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	PERFORMANCE SPECIFICATIONS MET OR EXCEEDED	COUPLING SERIES
SUCTION AND RETURN						
120	**SR** SUCTION		**-12 to -48** 3/4" to 3"	Petroleum and water base hydraulic fluids in suction lines or in low pressure return lines.	Oil resistant synthetic rubber tube. Textile reinforcement with spiral wire to prevent collapsing. Oil resistant and abrasion resistant synthetic rubber cover.	AS 3791 100R4 (except SR48) SAE 100R4	33000 T4000
121	**SRF** COMPACT SUCTION		**-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.	AS 3791 100R4 SAE 100R4	33000 T4000
TEFLON®						
122	**RTH1** TEFLON		**-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. *DuPont Reg. TM	SAE 100R14. RTH112 meets ID and OD requirements of SAE 100R14. Other sizes have ID and OD different to SAE 100R14	TT000
TEXTILE BRAID						
123	**FB2** BARRIER		**-06 to -10** 3/8" to 5/8"	Automotive air conditioning and refrigeration. Refrigerants R12, R134a, R22 & R114.	Synthetic rubber internal layer with Nylon Barrier tube. Two braids of synthetic yarn reinforcement. Oil resistant and abrasion resistant synthetic rubber cover.	SAE J2064 Type C Class II	1G000
124	**M1** FUEL LINE		**-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.	SAE 30R7	N/A
125	**MP1** MULTI-PURPOSE		**-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.	RMA Class A (tube) RMA Class B (cover)	T4000
126	**M2** TEXTILE		**-04 to -16** 1/4" to 1"	Medium pressure hydraulic oil lines, antifreeze solutions, water.	Oil resistant synthetic rubber tube. Two textile braids reinforcement. Oil resistant and abrasion resistant synthetic rubber cover.	AS 3791 100R3 DIN 20021-2TE ISO 4079 Type R3 SAE 100R3	T4000 6000 (M000)
128	**PL1** PUSH ON		**-04 to -12** 1/4" to 3/4"	Petroleum base 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.	AS 3791 100R6 DIN 20021-1TE ISO 4079 Type 1 SAE 100R6	T4000 8000
129	**PL1D** DIEHARD™		**-04 to -12** 1/4" to 3/4"	Petroleum base 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.	AS 3791 100R6 DIN 20021-1TE ISO 4079 Type 1 SAE 100R6	T4000 8000
127	**M2G** LPG/C		**-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.	AS/NZS 1869 Class C	T4000 6000 (M000)

HOSE

PICTORIAL INDEX

	HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	PERFORMANCE SPECIFICATIONS MET OR EXCEEDED	COUPLING SERIES
THERMOPLASTIC							
132	**TP7** SPIDERLINE R7		**-03 to -16** 3/16″ to 1″	High pressure hydraulic oil lines; pilot lines; greasing and lubrication lines; and some pneumatic and water lines.	Oil resistant seamless thermoplastic tube. One or two braids of synthetic fibre reinforcement. Oil and abrasion resistant thermoplastic perforated cover.	AS 3791 100R7 EN 855 TYPE R7 ISO 3949 SAE 100R7	T1000 T4000
133	**TP7N** ISOLATOR R7		**-04 to -16** 1/4″ to 1″	Hydraulic oil lines where electrical non-conductivity is required.	Oil resistant seamless thermoplastic tube. One or two braids of synthetic fibre reinforcement. Oil and abrasion resistant thermoplastic cover.	AS 3791 100R7 EN 855 TYPE R7 ISO 3949 SAE 100R7	T1000 T4000
134	**TP7T** SPIDERLINE TWIN R7		**-04 to -08** 1/4″ to 1/2″	Payout and return reels on forklifts and cranes, dispensing equipment and other applications requiring two hoses.	Oil resistant seamless thermoplastic tube. One or two braids of synthetic fibre reinforcement. Oil and abrasion resistant thermoplastic perforated cover.	AS 3791 100R7 EN 855 TYPE R7 ISO 3949 SAE 100R7	T1000 T4000
135	**TP7TN** ISOLATOR TWIN R7		**-04 to -08** 1/4″ to 1/2″	Payout and return reels on forklifts and cranes, hydraulic powered hand tools and other applications requiring two hoses.	Oil resistant seamless thermoplastic tube. One or two braids of synthetic fibre reinforcement. Oil and abrasion resistant thermoplastic cover.	AS 3791 100R7 EN 855 TYPE R7 ISO 3949 SAE 100R7	T1000 T4000
136	**TP8** SPIDERLINE R8		**-04 to -08** 1/4″ to 1/2″	High pressure hydraulic oil lines; pilot lines; greasing and lubrication lines; and some pneumatic and water lines.	Oil resistant seamless thermoplastic tube. One or two braids of aramid fibre reinforcement. Oil and abrasion resistant thermoplastic perforated cover.	AS 3791 100R8 EN 855 TYPE R8 ISO 3949 SAE 100R8	T1000
137	**TP8N** ISOLATOR R8		**-04 to -08** 1/4″ to 1/2″	Hydraulic oil lines where electrical non-conductivity is required.	Oil resistant seamless thermoplastic tube. One or two braids of aramid fibre reinforcement. Oil and abrasion resistant thermoplastic cover.	AS 3791 100R8 EN 855 TYPE R8 ISO 3949 SAE 100R8	T1000
138	**TP8T** SPIDERLINE TWIN R8		**-04 to -08** 1/4″ to 1/2″	Payout and return reels on forklifts and cranes, dispensing equipment and other applications requiring two hoses.	Oil resistant seamless thermoplastic tube. One or two braids of aramid fibre reinforcement. Oil and abrasion resistant thermoplastic perforated cover.	AS 3791 100R8 EN 855 TYPE R8 ISO 3949 SAE 100R8	T1000
139	**TP8TN** ISOLATOR TWIN R8		**-04 to -08** 1/4″ to 1/2″	Payout and return reels on forklifts and cranes, hydraulic powered hand tools and other applications requiring two hoses.	Oil resistant seamless thermoplastic tube. One or two braids of aramid fibre reinforcement. Oil and abrasion resistant thermoplastic cover.	AS 3791 100R8 EN 855 Type R8 ISO 3949 SAE 100R8	T1000
140	**TP3000** SPIDERLINE N8		**-04 to -08** 1/4″ to 1/2″	Medium pressure hose suitable for petroleum or synthetic based hydraulic fluids in forklift systems.	Polyester elastomer tube. One or two braids of synthetic fibre reinforcement. Special polyester, black with white ink-jet branding. Cover is perforated (pin-pricked).	SAE 100 R18	T4000
GREASING AND LUBRICATION							
141	**TPGL** GREASE LINE		**-02** 1/8″	High pressure greasing and lubrication systems.	Oil resistant seamless thermoplastic tube. One or two braids of synthetic fibre reinforcement. Oil and abrasion resistant thermoplastic perforated cover.		TG000 6000 (P000)
142	**R4000**		**-03** 3/16″	Flexible Grease Gun extension for high pressure greasing and lubrication systems.	Oil resistant synthetic rubber tube. One braid of high tensile steel wire reinforcement. Oil and abrasion resistant synthetic rubber cover.		—

HOSE PROTECTION

			INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	PERFORMANCE SPECIFICATIONS MET OR EXCEEDED
144	**FS** FIRE SLEEVE		**-08 to -104** 1/2" to 6.1/2"	Protection of hoses from heat and molten metal splashes.	Braided glass fibre tubing coated with silicon rubber.	SAE Aerospace Standard AS 1072
146	**RCS** CROCSLEEVE		**23 to 129 mm** 7/8" to 5"	Burst and pinhole protection. Protection of hoses from abrasion. Bundling hoses together.	Woven polyamide. RCSB - Black. RCSR - Red.	MSHA approved FRAS
148	**RH** RAWHIDE		**23 to 93 mm** 7/8" to 3.5/8"	Protection of hoses from severe abrasion. Bundling hoses together.	Woven nylon tubing.	MSHA approved
149	**RSG** SPIRAL GUARD		**16 to 110 mm** (OD) 5/8" to 4.1/2"	Protection of hoses from abrasion and impact. Bundling hoses together.	Polyethylene plastic spiral. Black.	
149	**RSGF** SPIRAL GUARD FRAS		**16 to 110 mm** (OD) 5/8" to 4.1/2"	Protection of hoses from abrasion and impact. Bundling hoses together.	Polyethylene plastic spiral. Dark Grey.	MSHA approved FRAS
149	**RSGY** SPIRAL GUARD		**16 to 110 mm** (OD) 5/8" to 4.1/2"	Protection of hoses from abrasion and impact. Bundling hoses together.	Polyethylene plastic spiral. Yellow	
150	**RWA** PUSH ON		**12 to 75 mm** 1/2" to 3"	Protection of hose cover from abrasion and gouges.	Spring Steel Wire, galvanised.	
151	**RHYS** PACKAGING SLEEVE		**48 & 79 mm** 1.9" and 3.1"	Packaging and protection of hose assemblies during transport and storage.	Heavy duty, low density polyethylene sleeve.	
152	**RHYT** RHYT-10, -32		**Suits sizes -04 to -10 & -12 to -32**	Permanent identification of hose assemblies.	High performance plastic.	
152	**RHWT** RHWT-10, -32		**Suits sizes -04 to -10 & -12 to -32**	Permanent identification of hose assemblies.	High performance plastic.	
153	**750/760** SPRING GUARD		**Suits some -04 (1/4") & -06 (3/8") hoses**	Control bend radius at end of hose assemblies.	Spring Steel Wire, galvanised.	

RYCO

AVENGER

THE SMART CHOICE

ABRASION RESISTANT

MSHA - FLAME RESISTANT

RYCO QUALITY

The tables following on pages 43 to 49 list the approvals RYCO Hydraulics have with various third parties for hoses used in RYCO Matched Hose Assemblies. For each Certification Body/Organisation referenced in the table, listed is; the Approval/ Certificate Number held by RYCO, and the Matched Coupling Series approved for the hose.

EXAMPLE:
A Hose Assembly using **T112A** needs to meet **Marine Equipment Directive** (MED) approval; the table shows:

The **MED Approval Number** for RYCO Hydraulics **T1A** Series Hose: **MED-B-3625**.

The **Matched Couplings** approved for use with **T112A** hose: **T2000** & **T7000** Series BITELOK Crimp, and **K000** Series Field Attachable Couplings.

RYCO HOSE TYPE APPROVALS

HOSE SERIES	AVENGER	DIEHARD	SLIDER	ABS	DNV	GL	LR	MED	USCG	DOT	GOST-R
T3000	**A**	**D**	**S**								
T3004	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T3005	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T3006	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T3008	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T3010	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T3012	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T3016	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T3600	**A**	**D**	**S**								
T3604	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		
T3605	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		
T3606	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		
T3608	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		
T3610	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		
T3612	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		
T3616	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		
T4000	**A**	**D**	**S**								
T4004	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T4005	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T4006	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T4008	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T4010	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T4012	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T5000	**A**	**D**	**S**								
T5004	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T5005	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T5006	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T5008	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T6000	**A**	**D**	**S**								
T6004	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T6005	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T6006	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000

* Refer to our website **www.RYCO.com.au** for current certificate approvals numbers.

HOSE

HOSE TYPE APPROVALS

HOSE SERIES	AVENGER	DIEHARD	SLIDER	RYCO HOSE TYPE APPROVALS ABS	DNV	GL	LR	MED	USCG	DOT	GOST-R
H3000	**A**	**D**	**S**								
H3020	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H3024	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H3032	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H4000	**A**	**D**	**S**								
H4006	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H4008	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H4010	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H4012	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H4016	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H4020	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H4024	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H4032	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H5000	**A**	**D**	**S**								
H5006	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H5008	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H5010	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H5012	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H5016	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H5020	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H5024	•	•	•	T9000	T9000	T9000	T9000	T9000	T9000		T9000
H5032	•	•	•	T9000	T9000	T9000	T9000	T9000	T9000		T9000
H6000	**A**	**D**	**S**								
H6006	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H6008	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H6010	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H6012	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H6016	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H6020	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H6024	•	•	•	T9000 & 69000N	T9000 & 69000N	T9000 & 69000N	T9000 & 69000N	T9000 & 69000N	T9000 & 69000N		T9000 & 69000N
H6032	•	•	•	69000N	69000N	69000N	69000N	69000N	69000N		69000N
T1	**A**	**D**	**S**								
T13	•			T2000	T2000	T2000	T2000	T2000	T2000		T2000
T14	•	•	•	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000		T2000 & K000
T15	•	•	•	T2000	T2000	T2000	T2000	T2000	T2000		T2000
T16	•	•	•	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000		T2000, T7000 & K000
T18	•	•	•	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000		T2000, T7000 & K000
T110	•	•	•	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000		T2000, T7000 & K000
T112	•	•	•	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000		T2000, T7000 & K000
T116	•	•	•	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T7000		T2000, T7000 & K000
T120	•	•	•	T2000, T7000 & A000	T2000, T7000 & A000	T2000, T7000 & A000	T2000, T7000 & A000	T2000, T7000 & A000	T7000		T2000, T7000 & A000
T124	•	•	•	T7000 & A000	T7000 & A000	T7000 & A000	T7000 & A000	T7000 & A000	T7000		T7000 & A000
T132	•	•	•	T7000 & A000	T7000 & A000	T7000 & A000	T7000 & A000	T7000 & A000	T7000		T7000 & A000

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RYCO HOSE TYPE APPROVALS											
HOSE SERIES	AVENGER	DIEHARD	SLIDER	ABS	DNV	GL	LR	MED	USCG	DOT	GOST-R
T1											
T13F				T2000	T2000	T2000	T2000	T2000	T2000		
T14F				T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000		
T16F				T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000		
T18F				T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000		
T112F				T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000		
T2	**A**	**D**	**S**								
T24	•	•		T2000 & L000	T2000 & L000	T2000 & L000	T2000 & L000	T2000 & L000	T2000 & L000		T2000 & L000
T25	•	•		T2000	T2000	T2000	T2000	T2000	T2000		T2000
T26	•	•		T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000 & T7000		T2000, T7000 & L000
T28	•	•		T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000 & T7000		T2000, T7000 & L000
T210	•	•		T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000		T2000, T7000 & L000
T212	•	•		T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000 & T7000		T2000, T7000 & L000
T216	•	•		T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T7000		T2000, T7000 & L000
T220	•	•		T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T7000		T2000, T7000 & L000
T224	•	•		T7000 & B000	T7000 & B000	T7000 & B000	T7000 & B000	T7000 & B000	T7000		T7000 & B000
T232	•	•		T7000 & B000	T7000 & B000	T7000 & B000	T7000 & B000	T7000 & B000	T7000		T7000 & B000
T240	•			12000	12000	12000	12000	12000	12000		12000
T2	**A**	**D**	**S**								
T24			•	T2000	T2000	T2000	T2000	T2000	T2000		
T26			•	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000		
T28			•	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000		
T210			•	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000		
T212			•	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000		
T216			•	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000		
T220			•	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000	T2000 & T7000		
T224			•	T7000	T7000	T7000	T7000	T7000	T7000		
T232			•	T7000	T7000	T7000	T7000	T7000	T7000		
DF2A	**A**	**D**	**S**								
DF26A	•			T2000	T2000	T2000	T2000	T2000	T2000		T2000
DF28A	•			T2000	T2000	T2000	T2000	T2000	T2000		T2000
DF210A	•			T2000	T2000	T2000	T2000	T2000	T2000		T2000
DF212A	•			T2000	T2000	T2000	T2000	T2000	T2000		T2000
DF216A	•			T2000	T2000	T2000	T2000	T2000	T2000		T2000

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DIEHARD

HOSE THAT WONT SAY DIE

EXTRA ABRASION RESISTANT

FRAS - FLAME RESISTANT ANTI STATIC

RYCO QUALITY

HIGHLY FLEXIBLE

RYCO HOSE TYPE APPROVALS												
HOSE SERIES	AVENGER	DIEHARD	SLIDER	ABS	DNV	GL	LR	MED	USCG	DOT	GOST-R
H12	**A**	**D**	**S**								
H1206	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H1208	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H1210	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H1212	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H1216	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H1220	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H1224	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
H1232	•	•	•	T7000	T7000	T7000	T7000	T7000	T7000		T7000
BT1											
BT14				T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000		T2000 & K000
BT15				T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000		T2000 & K000
BT16				T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000		T2000 & K000
BT18				T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000		T2000 & K000
BT110				T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000		T2000 & K000
BT112				T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000		T2000 & K000
BT116				T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000		T2000 & K000
RQP1											
RQP14				T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000	T2000 & K000		T2000 & K000
RQP15				T2000	T2000	T2000	T2000	T2000	T2000		T2000
RQP16				T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000		T2000, T7000 & K000
RQP18				T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000		T2000, T7000 & K000
RQP110				T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000		T2000, T7000 & K000
RQP112				T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000		T2000, T7000 & K000
RQP116				T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000	T2000, T7000 & K000		T2000, T7000 & K000
RQP2											
RQP24				T2000 & L000	T2000 & L000	T2000 & L000	T2000 & L000	T2000 & L000	T2000	T4000 & V000	T2000
RQP25				T2000	T2000	T2000	T2000	T2000	T2000	T4000 & V000	T2000
RQP26				T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T4000 & V000	T2000, T7000 & L000
RQP28				T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T4000 & V000	T2000, T7000 & L000
RQP210				T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T4000 & V000	T2000, T7000 & L000
RQP212				T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T4000 & V000	T2000, T7000 & L000
RQP216				T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	V000	T2000, T7000 & L000
RQP220				T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T2000, T7000 & L000	T7000	V000	T7000
RQP224				T7000 & B000	T7000 & B000	T7000 & B000	T7000 & B000	T7000 & B000	T7000 & B000	V000	T7000 & B000
RQP232				T7000 & B000	T7000 & B000	T7000 & B000	T7000 & B000	T7000 & B000	T7000 & B000	V000	T7000 & B000

* Refer to our website **www.RYCO.com.au** for current certificate approvals numbers.

HOSE

HOSE TYPE APPROVALS

RYCO HOSE TYPE APPROVALS								
HOSE SERIES	ABS	DNV	GL	LR	MED	USCG	DOT	GOST-R
RQP5								
RQP54	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000
RQP55	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000
RQP56	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000
RQP58	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000
RQP510	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000
RQP512	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000
RQP516	V000	V000	V000	V000	V000	V000	V000	V000
RQP520	V000	V000	V000	V000	V000	V000	V000	V000
RQP524	V000	V000	V000	V000	V000	V000	V000	V000
RQP532	V000	V000	V000	V000	V000	V000	V000	V000
T5								
T54	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000		T4000 & V000
T55	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000		T4000 & V000
T56	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000		T4000 & V000
T58	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000		T4000 & V000
T510	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000		T4000 & V000
T512	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000	T4000 & V000		T4000 & V000
T516	V000	V000	V000	V000	V000	V000		V000
T520	V000	V000	V000	V000	V000	V000		V000
T524	V000	V000	V000	V000	V000	V000		V000
T532	V000	V000	V000	V000	V000	V000		V000
D2B								
D224B	T7000	T7000	T7000	T7000	T7000	T7000		T7000
D232B	T7000	T7000	T7000	T7000	T7000	T7000		T7000
RTH1								
RTH14	TT000	TT000	TT000	TT000	TT000	TT000		TT000
RTH16	TT000	TT000	TT000	TT000	TT000	TT000		TT000
RTH18	TT000	TT000	TT000	TT000	TT000	TT000		TT000
RTH110	TT000	TT000	TT000	TT000	TT000	TT000		TT000
RTH112	TT000	TT000	TT000	TT000	TT000	TT000		TT000
RTH116	TT000	TT000	TT000	TT000	TT000	TT000		TT000
SR								
SR12	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000		T4000 & 33000
SR16	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000		T4000 & 33000
SR20	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000		T4000 & 33000
SR24	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000		T4000 & 33000
SR32	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000		T4000 & 33000
SR40	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000		T4000 & 33000

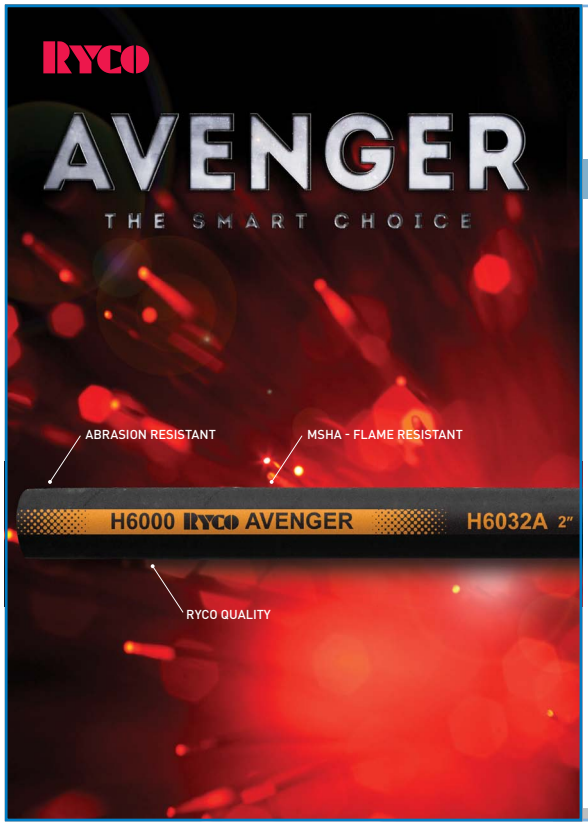
* Refer to our website **www.RYCO.com.au** for current certificate approvals numbers.

RYCO HOSE TYPE APPROVALS								
HOSE SERIES	ABS	DNV	GL	LR	MED	USCG	DOT	GOST-R
SRF								
SRF12	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000		T4000 & 33000
SRF16	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000		T4000 & 33000
SRF20	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000		T4000 & 33000
SRF24	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000		T4000 & 33000
SRF32	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000	T4000 & 33000		T4000 & 33000
M2								
M24	T4000	T4000	T4000	T4000	T4000	T4000		T4000
M26	T4000	T4000	T4000	T4000	T4000	T4000		T4000
M28	T4000	T4000	T4000	T4000	T4000	T4000		T4000
M212	T4000	T4000	T4000	T4000	T4000	T4000		T4000

* Refer to our website **www.RYCO.com.au** for current certificate approvals numbers.

NOTE: MED/USCG approval must use FS1072 FIRESLEEVE for RTH1, SR, SRF, M2, T5 and RQP5.

HOSE COVERS

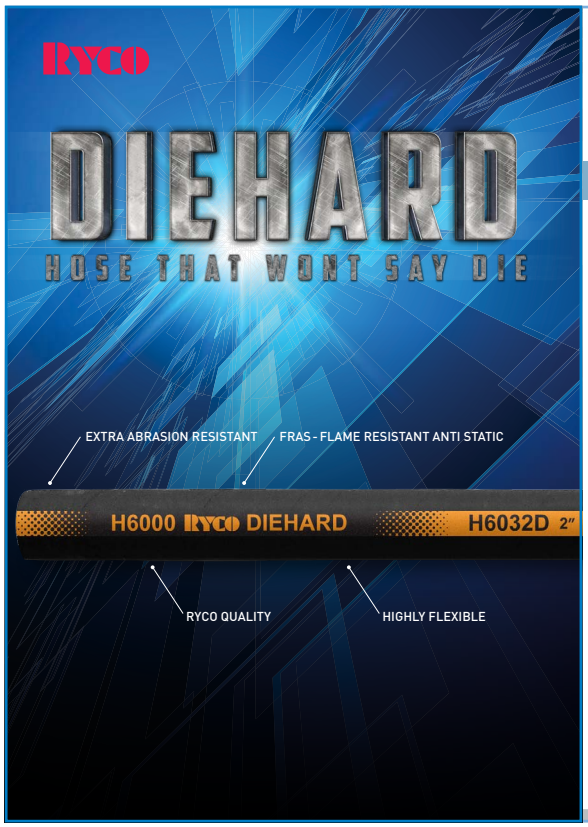


RYCO AVENGER™

THE SMART CHOICE

- **ABRASION RESISTANT**
- **MSHA FLAME RESISTANT**

AVENGER™ has a synthetic rubber cover compounded to resist abrasion and is specifically designed for multiple applications. The complete **AVENGER**™ series meets MSHA Flame Resistant requirements.



RYCO DIEHARD™

HOSE THAT WON'T SAY DIE

- **EXTRA ABRASION RESISTANT**
- **MSHA FLAME RESISTANT**
- **FRAS FLAME RESISTANT & ANTI-STATIC**

DIEHARD™ has a synthetic rubber cover that is extra resistant to abrasion and complies with Flame Resistant and Anti-Static (FRAS) requirements of AS 2660 methods of test AS 1180.10B and AS 1180.13A, also meeting USA MSHA requirements. **DIEHARD**™ complies with ISO 6945 method of test for abrasion resistance being less than 10% of the maximum weight loss allowed by EN 853, EN 856 and EN 857.

HYDRAULIC HOSE COVERS TO SUIT YOUR NEEDS

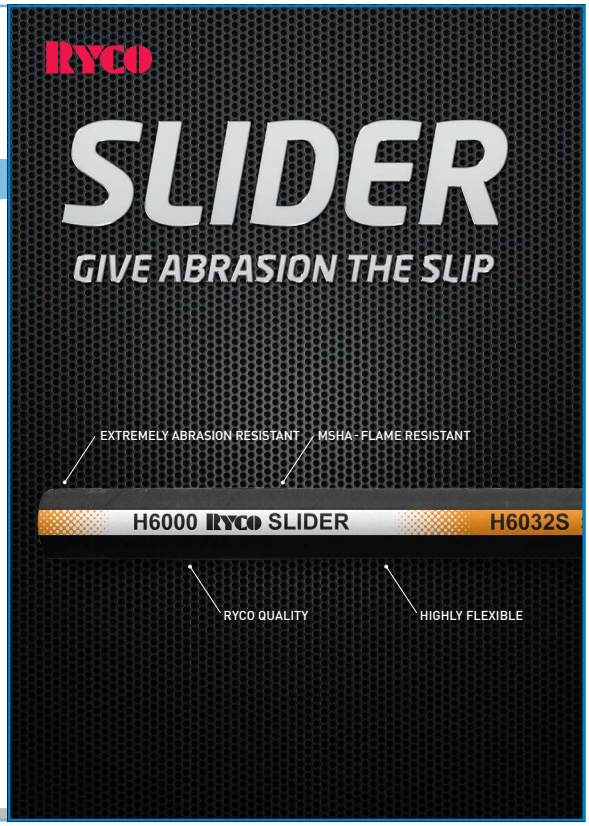
RYCO Hose styles cover a broad range of hydraulic applications. Different applications require different performance criteria. RYCO AVENGER™, DIEHARD™, SLIDER™ and SURVIVOR™ tube and cover compounds offer a perfect choice and are available across a range of our Hose Styles.

RYCO SLIDER™

GIVE ABRASION THE SLIP

- **EXTREMELY ABRASION RESISTANT**
- **MSHA FLAME RESISTANT**

SLIDER™ has an additional layer of polyethylene protection over the rubber cover of the hose. The result is an extremely abrasion resistant cover that complies with Flame Resistant requirement of AS 2660 method of test AS1180.10B, meeting USA MSHA requirements. **SLIDER**™ complies with ISO 6945 method of test for abrasion resistance being less than 0.2% of that allowed by EN 853, EN 856 and EN 857.

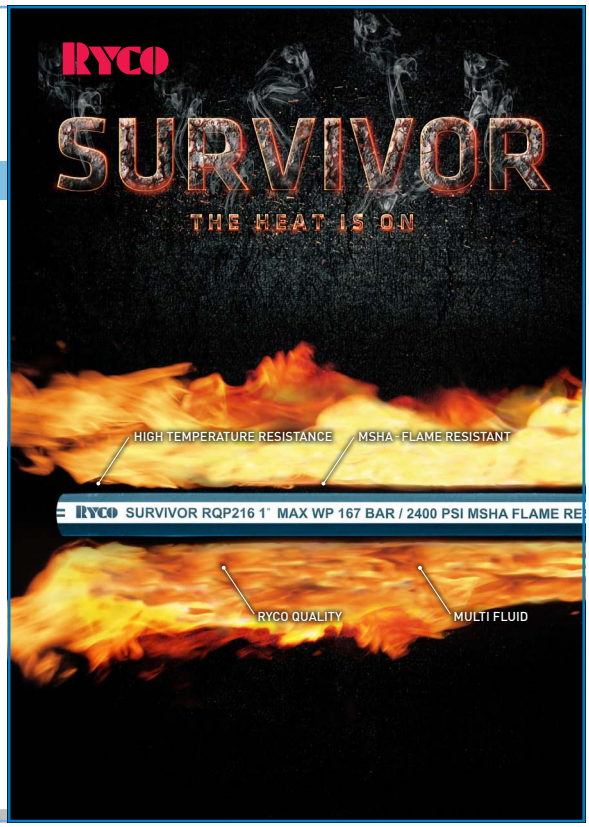


RYCO SURVIVOR™

THE HEAT IS ON

- **HIGH TEMPERATURE (150°C/302°F)**
- **MSHA FLAME RESISTANT**

Designed for high temperature applications and suitable for use with a variety of fluids.



RYCO

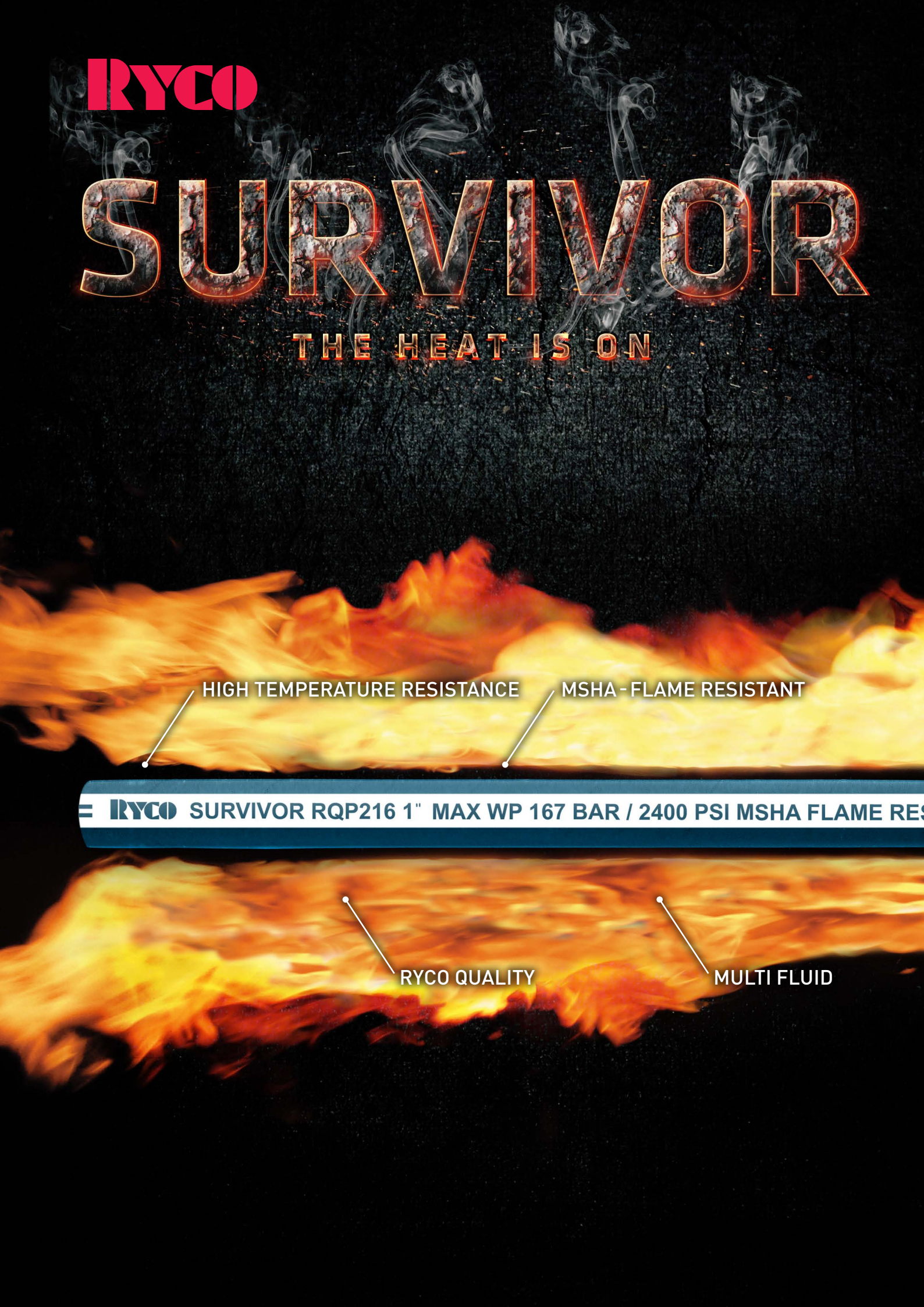
SLIDER

GIVE ABRASION THE SLIP

RYCO

SURVIVOR

THE HEAT IS ON



SPECIFICATIONS SUMMARY

MAXIMUM WORKING PRESSURES

Maximum Working Pressures shown below (except for **RYCO PL1, PL1D, RQP6, SR** and **SRF** Series) are Dynamic Working Pressures for use with hydraulic fluid in systems with pressure surges or variable loads and are based on 4:1 safety factor (minimum burst to maximum working pressure).

RYCO PL1, PL1D and **RQP6** hoses are recommended for use with **RYCO 8000 Series** Push-On Fittings in systems with Static Working Pressures only, and are not recommended for vibration or pressure surge applications. The Maximum Working Pressures for **PL1, PL1D** and **RQP6** shown below are Static Working Pressures.

Hose subjected to both maximum temperature and maximum working pressure will have a shortened lifetime.

HOSE SIZE			BAR																								
DN	INCH	DASH	T3000A/D/S	T3600A/D/S	T4000A/D/S	T5000A/D/S	T6000A/D/S	H3000A/D/S	H4000A/D/S	H5000/A/D/S	H6000A/D/S	T1A/D/S	T1F	T2A/D/S	T2C	TXA2D	DF2A	E2	TJ2D	H12A/D/S	R4SHA/D	R4SPA/D	T5	D2B	MS1000	CS1000
3	1/8	-02																									
5	3/16	-03										250	250														
6	1/4	-04	245	250	280	350	420					225	225	420	420		420	420	700				210				
8	5/16	-05	245	250	280	350	420					215	215	350	350		350	350	700				210				
10	3/8	-06	215	250	280	350	420		280	350	420	180	180	350	350		350	350		350		445	155				
12	1/2	-08	215	250	280	350	420		280	350	420	160	160	350	350	375	295	350		350		420	138		70	70
16	5/8	-10	215	250	280	350			280	350	420	130	130	250	250	350	250	250		350		380	121		70	70
19	3/4	-12	215	250	280	350			280	350	420	105	105	215	215	313	215	215		350	420	380	103		70	70
25	1	-16	215	250	280				280	350	420	90	90	175	175	225	167	175		350	380	350	55		70	70
31	1.1/4	-20						215	280	350	420	65		140	140					275	350	210	43		70	70
38	1.1/2	-24						215	280	350	420	50		100	100					255	300	185	35	100	70	70
51	2	-32						215	280	350	420	40		90	90					210	250	175	24	90	70	70
63	2.1/2	-40												70						140						
76	3	-48												70												

HOSE SIZE			BAR																							
DN	INCH	DASH	BT1	RQP1	RQP2	RQP5	RQP6	TW1	PW2	SR	SRF	RTH1	FB2	M1	MP1	M2	PL1	PL1D	M2G	TP7, TP7N	TP7T, TP7TN	TP8, TP8N	TP8T, TP8TN	TP3000	TPGL	
3	1/8	-02																							250	
5	3/16	-03																		210						
6	1/4	-04	50	225	400	210	28		400			170		3,5	14	88	28	28	2,6	210	210	350	350	210		
8	5/16	-05	50	215	350	210	28		400					3,5			28	28		190	190					
10	3/8	-06	50	180	350	155	28	210	400			165	35	3,5	14	79	28	28	2,6	160	160	280	280	210		
12	1/2	-08	50	160	300	138	28	210				120	35		14	70	28	28	2,6	140	140	245	245	210		
16	5/8	-10	50	130	250	121	24					105	35		14		24	24								
19	3/4	-12	50	120	215	103	21			21	21	85			14	52	21	21	2,6	90						
25	1	-16	50	90	167	55				17	17	55			14					70						
31	1.1/4	-20			150	43					14				14											
38	1.1/2	-24			100	35					10															
51	2	-32			90	24					7															
63	2.1/2	-40								4,3																
76	3	-48								3,9																

PRESSURE CONVERSION CHART	1 BAR = 14.5 PSI	1 MPA = 10 BAR														
bar	4	7	10	12	14	17	20	24	28	39	55	69	80	90	120	130
psi	58	100	145	175	200	250	300	350	400	565	800	1000	1160	1300	1740	1890
bar	160	180	200	215	225	250	300	337	350	375	400	420	435	500	585	690
psi	2300	2600	2900	3100	3250	3600	4350	4900	5100	5440	5800	6080	6310	7250	8480	10000

The Working Pressure of each Hose Coupling End Termination Style is shown in the Technical section. In most cases, the Working Pressure of the Hose Coupling End Termination Style that can be chosen for a particular hose exceeds the Maximum Working Pressure of the Hose.

It is possible however, to select a Hose Coupling with End Termination with lower Working Pressure than the Hose. In this case, as noted in SAE J516 and SAE J517, the rated Working Pressure of the Hose Assembly must not exceed the lower of the respective Working Pressure rated values.

EXAMPLE 1.
T28A Hose Assembly with T2040-0812 coupling one end and T2090-0808 coupling other end.
From above table or from page 92, Maximum Working Pressure of T28A is 350 bar.
From page 194, Maximum Working Pressure of T2040-0812 is 690 bar.
From page 192, Maximum Working Pressure of T2090-0808 is 690 bar.
The Maximum Working Pressure of the Hose Assembly is therefore 345 bar, the lowest of the respective Working Pressure rated values (in this case, the hose).

EXAMPLE 2.
H5016D Hose Assembly with T7130-1620 coupling one end and T7030-1621 coupling other end.
From above table or from page 83, Maximum Working Pressure of H5016D is 350 bar.
From page 228, Maximum Working Pressure of T7130-1620 is 280 bar.
From page 220, Maximum Working Pressure of T7030-1621 is 420 bar.
The Maximum Working Pressure of the Hose Assembly is therefore 280 bar, the lowest of the respective Working Pressure rated values (in this case, the T7130-1620).

See page 175 for more information.

IMPULSE LIFE

Although two or more hoses manufactured to different industry standard specifications may have identical Maximum Working Pressures, their suitability for the application must be considered. An important factor to consider is the magnitude and frequency of the pressure impulses that the hose assembly will experience.

FLAME RESISTANCE

All RYCO Hoses (except **RYCO E2, FB2, M1, MP1, PW2, TTW1, TP7, TP7N, TP7T, TP7TN, TP8, TP8N, TP8T, TP8TN, TP3000, RQP5, SR, SRF, T5, RTH1** & **PL1** Series) meet Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration and also comply with Flame Resistant requirements of Australian Standard AS 2660 and Method of Test AS 1180.10B. Contact RYCO Technical Department for more information.

MINIMUM BEND RADIUS

Minimum Bend Radius figures published are the radius to the cover of the Hose at the inside of the bend.

RYCO Hose Assemblies exceed the required impulse test requirements when bent to the published Minimum Bend Radius. Hose assemblies bent to smaller than the Minimum Bend Radius will have shortened lifetime.

ANTI-STATIC

"Anti-Static" refers to Hoses or Hose Assemblies being sufficiently electrically conductive to drain off static electricity. According to the requirements of AS 2660 Clause 2.2, the Hose or Hose assembly shall have an electrical resistance (measured from inside surface to outside surface) of less than 1 megohm per metre, when tested according to Method of Test AS 1180.13A. For applications requiring Anti-Static Hydraulic Hose Assemblies including, but not limited to, underground coal mines, where there is danger of ignition from static electricity discharge, only special Anti-Static Hose can be used.

RYCO DIEHARD™ Hoses and COALSPRAY comply with the requirements of AS 2660 and Method of Test AS 1180.13A.

SPECIFICATIONS SUMMARY

NON-CONDUCTIVE

Certain applications require that a Hose, or Hose Assembly, be Non-Conductive to prevent electrical current flow.
For applications that require a Hose to be electrically Non-Conductive including, but not limited to, applications near high voltage electric lines, only special Non-Conductive Hoses can be used.

SKIVE/NON-SKIVE

Skiving refers to removing the cover at the ends of the Hose where the Hose Couplings are to be attached*.
Most RYCO combinations of Hose and Couplings are Non-Skive.

In a Non-Skive application, RYCO BITELOK couplings bite down through the cover and grip the wire reinforcement.
Some combinations of RYCO Hose and Couplings require skiving. If skiving is required, it is clearly stated in both the Hose Section and the Couplings Section.

*** (For H13, H15 and H6000 with 69000N couplings, a section of the tube must also be skived. This is called Internal Skiving).**

OUTSIDE DIAMETERS

See page 145 for reference chart of outside diameters.

SAFETY GUIDE – MAXIMUM TEMPERATURE LIMITS

Some RYCO Hose Series are not listed on page 57: **T1F, TJ2D, M2G, M1, FB2, RTH1, TW1, PW2, MP1**.

These Hoses are specific purpose Hoses, and their temperature limits are specified in the Hose Section of this Product Technical Manual. Contact RYCO Technical Department for any further queries.

Other RYCO Hose Series are listed on page 57. The Maximum Working Temperatures for these hoses, as listed in the Hose Section of this Product Technical Manual are for use with general purpose, mineral (petroleum) oil based hydraulic fluids, except where otherwise stated. Temperature limits for other hydraulic fluids, and some other common applications, are listed on page 57.

CAUTION:
Life expectancy of hoses is shortened at high temperatures. Detrimental effects increase when temperature is elevated, and also when; operating pressure, flow velocity, duration and frequency of exposure, and level of impurities in the media are high. Actual service life at temperatures approaching the recommended limits will depend on the particular application and the fluid being used.

Maximum Working Temperatures refer to the temperature of the media in the hose; not the environmental temperature around the outside of the hose. Please contact RYCO Technical Department for environmental temperatures in excess of 80°C (176°F), except **RQP1** and **RQP2** Series where environmental temperature is the same as media temperature.

Maximum Working Temperatures shown are for continuous temperatures. Slightly higher intermittent temperatures (up to 10% of time) may be acceptable with some hoses and some fluids, if reduced service life is acceptable. Please contact RYCO Technical Department for more information.

DO NOT expose Hose to Maximum Temperature and Maximum Working Pressure at the same time.

The fluid manufacturer's recommended maximum operating temperature for the fluid must not be exceeded. If different to the temperatures listed in the following table, the lower limit must take precedence. We recommend keeping the hose filled with the pressure medium at all times. Further information available on request.

HOSE COVER	GROUP 1	GROUP 2	GROUP 3	GROUP 4
AVENGER	T3000A, T4000A, T5000A, T6000A, T1A, T2A, DF2A	H3000A, H4000A, H5000A. H6000A, H12A, R4SPA, R4SHA		
DIEHARD	T3000D, T4000D, T5000D, T6000D, T1D, T2D, TXA2D, TJ2D, PL1D	H3000D, H4000D, H5000D. H6000D, H12D, R4SPD, R4SHD		
SLIDER	T3000S, T4000S, T5000S, T6000S, T1S, T2S	H3000S, H4000S, H5000S. H6000S, H12S		
SURVIVOR	RQP6		RQP1, RQP2, RQP5	
OTHER SERIES	SR, SRF, M2, T5, BT1, T1F, E2, PL1, DB2, T2C, CS1000, MS1000			TP7, TP7N, TP7T, TP7TN, TP8, TP8N, TP8T, TP8TN, TP3000, TPGL

MEDIA	TEMPERATURE LIMITS			
GENERAL PURPOSE MINERAL (PETROLEUM) BASED HYDRAULIC OIL[1]	-40°C to +100°C (-40°F to +212°F) RQP6: -40° to +125°C (-40°F to +257°F)	-40°C to +121°C (-40°F to +250°F)	-40°C to +150°C (-40°F to +302°F)	-40°C to +95°C (-40°F to +203°F)
WATER	+71°C (+160°F)	0°C to +71°C (+32°F to +160°F)	0°C to +121°C (+32°F +250°F)	0°C to +70°C (+32°F to +158°F)
WATER IN MINERAL OIL (40% to 80% water)	+85°C (+185°F)	-40°C to +85°C (-40°F to +185°F)	-40°C +121°C (-40°F +250°F)	-40°C to +70°C (-40°F to +158°F)
MINERAL OIL IN WATER (more than 80% water)	+85°C (+185°F)	-40°C to +85°C (-40°F to+185°F)	-40°C to +121°C (-40°F to +250°F)	-40°C to +70°C (-40°F to +158°F)
WATER/GLYCOL	+85°C (+185°F)	-40°C to +85°C (-40°F to +185°F)	-40°C to +121°C (-40°F to +250°F)	-40°C to +70°C (-40°F to +158°F)
GLYCOL	+85°C (+185°F)	-40°C to +85°C (-40°F to +185°F)	-40°C to+85°C (-40°F to +185°F)	-40°C to+70°C (-40°F to +158°F)
PHOSPHATE ESTERS[2]	Not suitable	Not suitable	-40°C to +82°C (-40°F to +180°F) (see Note 2)	40°C to +70°C (-40°F to +158°F) (see Note 2)
AIR[3]	RQP6: -40°C to +100°C (-40°F to +212°F) ***OTHERS:+71°C (+160°F)	-40°C to +71°C (-40°F to +160°F) (see Note 3)	-40°C to +121°C (-40°F to +250°F) (see Note 3)	-40°C to +71°C (-40°F to +160°F) (see Note 3)
PETROL (GASOLINE)	Contact RYCO	Contact RYCO	Contact RYCO	Contact RYCO
DIESEL FUEL	PL1: -40°C to +49°C (-40°F to +160°F) T5: -40°C to +71°C (-40°F to +160°F) RQP6: -40°C to +71°C (-40°F to +160°F) OTHERS: +50°C (+122°F)	-40°C to +50°C (-40°F to +122°F)	Not suitable	
ENGINE LUBRICATING OIL, GEARBOX OIL	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	-40°C to +95°C (-40°F to +203°F)
AUTOMATIC TRANSMISSION FLUID	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	-40°C to +95°C (-40°F to +203°F)

1 For highly refined and special purpose mineral based hydraulic oils (for example aviation hydraulic oils, MIL spec oils, etc), contact RYCO Technical Department.

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

3 For use with Air at pressures above 17,2 bar (250 psi), cover of hose must be perforated/pin-pricked (except RQP5 and T5), to allow air permeating through hose to escape without blistering the cover. Maximum working pressure of wire braid and spiral reinforced hose must be reduced by 30% (except for RQP1 and RQP2).
Observe all State and Federal Safety Regulations.

ISOBARIC HOSE

1/2 BEND RADIUS

MILLION CYCLE

PERFORMANCE AT A GLANCE:

H SERIES ISOBARIC SPIRAL HOSE

- Half SAE minimum bend radius.
- Highly flexible for easier routing and installation.
- Isobaric pressure from 215 bar/3100 psi (H3000) to 420 bar/6100 psi (H6000).
- Lighter weight means your hydraulic system is more compact and economical.
- 81 products in the H series Spiral range.
- Includes "World First" H6032 2" (DN51) hose.

T SERIES ISOBARIC BRAID HOSE

- Half SAE minimum bend radius.
- Highly flexible for easier routing and installation.
- Isobaric pressure from 215 bar/3100 psi (T3000) to 420 bar/6100 psi (T6000).
- Lighter weight means your hydraulic system is more compact and economical.
- 81 products in the T series Braid hose range.
- T3000 Braid is proven to impulse test of one million cycles in all sizes.
- Meets and exceeds the performance requirements of ISO 18752 (all series).

Up to half SAE minimum bend radius for T Series Isobaric Braid Hose and H Series Isobaric Spiral Hose.
H Series Isobaric Spiral and T3000 tested to one million impulse cycles.

WHAT PRESSURE IS YOUR SYSTEM?

215 bar
3100 psi

250 bar
3625 psi

280 bar
4100 psi

350 bar
5100 psi

420 bar
6100 psi

RYCO MATCHED SYSTEM

RYCO hoses and couplings are designed and engineered to match for maximum safety, leak free performance and exceptional productivity and reliability.

H SERIES SPIRAL HOSE:

T7000 SERIES
Bitelok non-skive one-piece crimp

For RYCO Hose Series:
H3000 & H4000 all sizes.
H5000 sizes -06 to -24.
H6000 sizes -06 to -20.

T9000 SERIES
Bitelok non-skive one-piece crimp

For RYCO Hose Series:
H5000 size -32 only.
H6000 size -24 only.

69000N SERIES
Bitelok interlok internal/external skive two-piece crimp

For RYCO Hose Series:
H6000 sizes -12 to -32.

T SERIES BRAID HOSE:

T1000 SERIES
Bitelok non-skive one-piece crimp

For RYCO Hose Series:
T3000 & T3600 all sizes.

T2000 SERIES
Bitelok non-skive one-piece crimp

For RYCO Hose Series:
T3000, T3600, T4000, T5000 & T6000 all sizes.

RYCO HOSE COVERS:

AVENGER™
- Abrasion resistant
- MSHA flame resistant

DIEHARD™
- Extra abrasion resistant
- MSHA flame resistant
- FRAS flame resistant and anti-static

SLIDER™
- Extremely abrasion resistant
- MSHA flame resistant

LAYLINE IDENTIFICATION

Colour-coded system enables easy and permanent identification of hoses.

PRESSURE RANGE / HOSE SERIES:

	420 bar/6100 psi
	350 bar/5100 psi
	280 bar/4100 psi
	250 bar/3625 psi
	215 bar/3100 psi

COVER TYPE:

	AVENGER™
	DIEHARD™
	SLIDER™

PART NUMBER:

Incorporates information relating to RYCO hose series, nominal hose size, and cover type in a simple, concise manner.

SIZE:

The nominal size of the hose is displayed in three commonly used formats (example shown below in appearance of order):

2″	(Inch Size)
-32	(Dash Size)
DN51	(Metric / DN Size)

WORKING PRESSURE:

RYCO Isobaric range of hose working pressures vary from 215 bar/3100 psi to 420 bar /6100 psi.

FLAME RESISTANCE:

Flame Resistance and Anti-Static (FRAS) and/or MSHA flame resistance properties of the hose are clearly stated and visible.

T3000A

COMPACT ISOBARIC HOSE
215 BAR / 3100 PSI
MILLION CYCLE

RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 215 bar / 3100 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: ISO 18752-BC, SAE 100R17.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One braid (-04 to -08 size) or two braids (-10 to -16 size) of high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame Resistant & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T1000 and T2000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles**.
Constant pressure 215 bar / 3100 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

MSHA - FLAME RESISTANCE:
AVENGER™ 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -16) pages 177 to 187.
T2000 Series (sizes -04 to -16) pages 188 to 208.
Assembly Instructions page 498.

T3000A - AVENGER COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
T3004A	6	-04	6,3	1/4	11,8	0.46	245	3500	980	14000	38	1.5	0,16	0.11	T1000	T2000
T3005A	8	-05	7,9	5/16	14,4	0.57	245	3500	980	14000	41	1.6	0,23	0.15	T1000	T2000
T3006A	10	-06	9,5	3/8	15,6	0.61	215	3100	860	12400	65	2.6	0,26	0.18	T1000	T2000
T3008A	12	-08	12,7	1/2	18,7	0.74	215	3100	860	12400	90	3.6	0,36	0.24	T1000	T2000
T3010A	16	-10	15,9	5/8	23,4	0.92	215	3100	860	12400	100	3.9	0,56	0.38	T1000	T2000
T3012A	19	-12	19,1	3/4	27,6	1.09	215	3100	860	12400	120	4.7	0,78	0.52	T1000	T2000
T3016A	25	-16	25,4	1	34,8	1.37	215	3100	860	12400	150	5.9	1,14	0.77	T1000	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T3000D

EXTRA ABRASION RESISTANT
FRAS
COMPACT ISOBARIC HOSE
215 BAR / 3100 PSI
MILLION CYCLE

RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 215 bar / 3100 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
ISO 18752-BC, SAE 100R17.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One braid (-04 to -08 size) or two braids (-10 to -16 size) of high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T1000 and T2000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles**.
Constant pressure 215 bar / 3100 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -16) pages 177 to 187.
T2000 Series (sizes -04 to -16) pages 188 to 208.
Assembly Instructions page 498.

T3000D – DIEHARD COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
T3004D	6	-04	6,3	1/4	11,8	0.46	245	3500	980	14000	38	1.5	0,16	0.11	T1000	T2000
T3005D	8	-05	7,9	5/16	14,4	0.57	245	3500	980	14000	41	1.6	0,23	0.15	T1000	T2000
T3006D	10	-06	9,5	3/8	15,6	0.61	215	3100	860	12400	65	2.6	0,26	0.18	T1000	T2000
T3008D	12	-08	12,7	1/2	18,7	0.74	215	3100	860	12400	90	3.6	0,36	0.24	T1000	T2000
T3010D	16	-10	15,9	5/8	23,4	0.92	215	3100	860	12400	100	3.9	0,56	0.38	T1000	T2000
T3012D	19	-12	19,1	3/4	27,6	1.09	215	3100	860	12400	120	4.7	0,78	0.52	T1000	T2000
T3016D	25	-16	25,4	1	34,8	1.37	215	3100	860	12400	150	5.9	1,14	0.77	T1000	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths,

T3000S

EXTREMELY ABRASION RESISTANT COMPACT ISOBARIC HOSE 215 BAR / 3100 PSI **MILLION CYCLE**

RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 215 bar / 3100 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: ISO 18752-BC, SAE 100R17.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One or two braids (-10 to -16 size) of high tensile steel wire.

COVER:
SLIDER™ Black, oil and extremely abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame Resistant, MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T1000 and T2000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles**.
Constant pressure 215 bar / 3100 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

MSHA - FLAME RESISTANCE AND ANTI-STATIC:
SLIDER™ complies with Flame Resistant requirements of Australian Standard AS 2660 and Methods 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -16) pages 177 to 187.
T2000 Series (sizes -04 to -16) pages 188 to 208.
Assembly Instructions page 498.

T3000S – SLIDER COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
T3004S	6	-04	6,3	1/4	11,8	0.46	245	3500	980	14000	38	1.5	0,16	0.11	T1000	T2000
T3005S	8	-05	7,9	5/16	14,4	0.57	245	3500	980	14000	41	1.6	0,23	0.15	T1000	T2000
T3006S	10	-06	9,5	3/8	15,6	0.61	215	3100	860	12400	65	2.6	0,26	0.18	T1000	T2000
T3008S	12	-08	12,7	1/2	18,7	0.74	215	3100	860	12400	90	3.6	0,36	0.24	T1000	T2000
T3010S	16	-10	15,9	5/8	23,4	0.92	215	3100	860	12400	100	3.9	0,56	0.38	T1000	T2000
T3012S	19	-12	19,1	3/4	27,6	1.09	215	3100	860	12400	120	4.7	0,78	0.52	T1000	T2000
T3016S	25	-16	25,4	1	34,8	1.37	215	3100	860	12400	150	5.9	1,14	0.77	T1000	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T3600A

COMPACT ISOBARIC HOSE
250 BAR / 3625 PSI

RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 250 bar / 3625 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: ISO 18752-BC.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One braid (-04 to -06 size) or two braids (-08 to -16 size) of high tensile wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame Resistant & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T1000 and T2000 Series BITELOK Crimp Couplings.

FEATURES:
Extremely Flexible. Minimum Bend Radius 25% less than published SAE 100R17 Minimum Bend Radius. Tested to 500,000 cycles. Constant pressure 250 bar / 3625 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

MSHA - FLAME RESISTANCE:
AVENGER™ 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -16) pages 177 to 187.
T2000 Series (sizes -04 to -16) pages 188 to 208.
Assembly Instructions page 498.

T3600A - AVENGER COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
T3604A	6	-04	6,3	1/4	11,8	0.46	250	3625	1000	14500	38	1.5	0,16	0.11	T1000	T2000
T3605A	8	-05	7,9	5/16	14,4	0.57	250	3625	1000	14500	41	1.6	0,23	0.15	T1000	T2000
T3606A	10	-06	9,5	3/8	15,6	0.61	250	3625	1000	14500	49	1.9	0,27	0.18	T1000	T2000
T3608A	12	-08	12,7	1/2	19,9	0.78	250	3625	1000	14500	68	2.7	0,45	0.30	T1000	T2000
T3610A	16	-10	15,9	5/8	23,4	0.92	250	3625	1000	14500	75	3.0	0,61	0.41	T1000	T2000
T3612A	19	-12	19,1	3/4	27,6	1.09	250	3625	1000	14500	90	3.6	0,78	0.52	T1000	T2000
T3616A	25	-16	25,4	1	35,2	1.39	250	3625	1000	14500	113	4.4	1,30	0.87	T1000	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T3600D

EXTRA ABRASION RESISTANT FRAS COMPACT ISOBARIC HOSE 250 BAR / 3625 PSI

RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 250 bar / 3625 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: ISO 18752-BC.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One braid (-04 to -06 size) or two braids (-08 to -16 size) of high tensile wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T1000 and T2000 Series BITELOK Crimp Couplings.

FEATURES:
Extremely Flexible. Minimum Bend Radius 25% less than published SAE 100R17 Minimum Bend Radius. Tested to 500,000 cycles. Constant pressure 250 bar / 3625 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -16) pages 177 to 187.
T2000 Series (sizes -04 to -16) pages 188 to 208.
Assembly Instructions page 498.

T3600D – DIEHARD COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
T3604D	6	-04	6,3	1/4	11,8	0.46	250	3625	1000	14500	38	1.5	0,16	0.11	T1000	T2000
T3605D	8	-05	7,9	5/16	14,4	0.57	250	3625	1000	14500	41	1.6	0,23	0.15	T1000	T2000
T3606D	10	-06	9,5	3/8	15,6	0.61	250	3625	1000	14500	49	1.9	0,27	0.18	T1000	T2000
T3608D	12	-08	12,7	1/2	19,9	0.78	250	3625	1000	14500	68	2.7	0,45	0.30	T1000	T2000
T3610D	16	-10	15,9	5/8	23,4	0.92	250	3625	1000	14500	75	3.0	0,61	0.41	T1000	T2000
T3612D	19	-12	19,1	3/4	27,6	1.09	250	3625	1000	14500	90	3.6	0,78	0.52	T1000	T2000
T3616D	25	-16	25,4	1	35,2	1.39	250	3625	1000	14500	113	4.4	1,30	0.87	T1000	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T3600S

EXTREMELY ABRASION RESISTANT COMPACT ISOBARIC HOSE 250 BAR / 3625 PSI

RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 250 bar / 3625 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: ISO 18752-BC, SAE 100R19.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One braid (-04 to -06 size) or two braids (-08 to -16 size) of high tensile wire.

COVER:
SLIDER™ Black, oil and extremely abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame Resistant, MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T1000 and T2000 Series BITELOK Crimp Couplings.

FEATURES:
Extremely Flexible. Minimum Bend Radius 25% less than published SAE 100R17 Minimum Bend Radius. Tested to 500,000 cycles. Constant pressure 250 bar / 3625 psi in all sizes for easy system design and hose selection.
Small bend radius and compact dimensions are advantages in installations.

MSHA - FLAME RESISTANCE:
SLIDER™ complies with Flame Resistant requirements of Australian Standard AS 2660 and Methods 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -16) pages 177 to 187.
T2000 Series (sizes -04 to -16) pages 188 to 208.
Assembly Instructions page 498.

T3600S – SLIDER COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
T3604S	6	-04	6,3	1/4	11,8	0.46	250	3625	1000	14500	38	1.5	0,16	0.11	T1000	T2000
T3605S	8	-05	7,9	5/16	14,4	0.57	250	3625	1000	14500	41	1.6	0,23	0.15	T1000	T2000
T3606S	10	-06	9,5	3/8	15,6	0.61	250	3625	1000	14500	49	1.9	0,27	0.18	T1000	T2000
T3608S	12	-08	12,7	1/2	19,9	0.78	250	3625	1000	14500	68	2.7	0,45	0.30	T1000	T2000
T3610S	16	-10	15,9	5/8	23,4	0.92	250	3625	1000	14500	75	3.0	0,61	0.41	T1000	T2000
T3612S	19	-12	19,1	3/4	27,6	1.09	250	3625	1000	14500	90	3.6	0,78	0.52	T1000	T2000
T3616S	25	-16	25,4	1	35,2	1.39	250	3625	1000	14500	113	4.4	1,30	0.87	T1000	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T4000A

COMPACT ISOBARIC HOSE
280 BAR / 4100 PSI

RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 280 bar / 4100 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: ISO 18752-AC, SAE 100R19.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One braid (-04 size) or two braids (-05 to -12 size) of high tensile wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame Resistant & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings.

FEATURES:
Constant pressure 280 bar / 4100 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

MSHA - FLAME RESISTANCE:
AVENGER™ 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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.

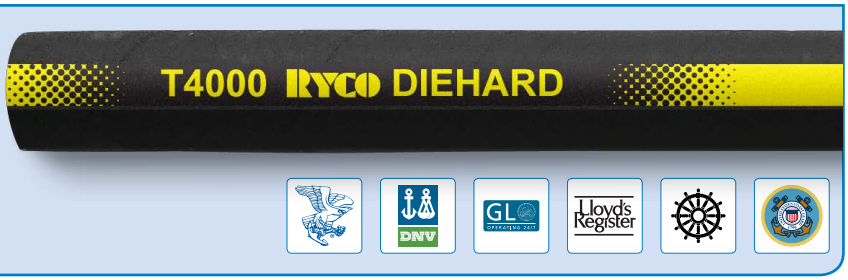
COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -12) pages 188 to 208.
Assembly Instructions page 498.

T4000A - AVENGER COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T4004A	6	-04	6,3	1/4	11,8	0.46	280	4100	1120	16400	50	1.97	0,16	0.11	T2000
T4005A	8	-05	7,9	5/16	15,6	0.61	280	4100	1120	16400	55	2.17	0,34	0.23	T2000
T4006A	10	-06	9,5	3/8	16,6	0.65	280	4100	1120	16400	65	2.56	0,37	0.25	T2000
T4008A	12	-08	12,7	1/2	20,6	0.81	280	4100	1120	16400	90	3.55	0,51	0.34	T2000
T4010A	16	-10	15,9	5/8	23,4	0.92	280	4100	1120	16400	100	3.94	0,61	0.41	T2000
T4012A	19	-12	19,1	3/4	28,4	1.12	280	4100	1120	16400	120	4.73	0,92	0.62	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T4000D

EXTRA ABRASION RESISTANT FRAS COMPACT ISOBARIC HOSE 280 BAR / 4100 PSI



RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 280 bar / 4100 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: ISO 18752-AC, SAE 100R19.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One braid (-04 size) or two braids (-05 to -12 size) of high tensile wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings.

FEATURES:
Constant pressure 280 bar / 4100 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -12) pages 188 to 208.
Assembly Instructions page 498.

T4000D – DIEHARD COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T4004D	6	-04	6,3	1/4	11,8	0.46	280	4100	1120	16400	50	1.97	0,16	0.11	T2000
T4005D	8	-05	7,9	5/16	15,6	0.61	280	4100	1120	16400	55	2.17	0,34	0.23	T2000
T4006D	10	-06	9,5	3/8	16,6	0.65	280	4100	1120	16400	65	2.56	0,37	0.25	T2000
T4008D	12	-08	12,7	1/2	20,6	0.81	280	4100	1120	16400	90	3.55	0,51	0.34	T2000
T4010D	16	-10	15,9	5/8	23,4	0.92	280	4100	1120	16400	100	3.94	0,61	0.41	T2000
T4012D	19	-12	19,1	3/4	28,4	1.12	280	4100	1120	16400	120	4.73	0,92	0.62	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T4000S

EXTREMELY ABRASION RESISTANT COMPACT ISOBARIC HOSE 280 BAR / 4100 PSI

RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 280 bar / 4100 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: ISO 18752-AC, SAE 100R19.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One braid (-04 size) or two braids (-05 to -12 size) of high tensile wire.

COVER:
SLIDER™ Black, oil and extremely abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame Resistant, MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings.

FEATURES:
Constant pressure 280 bar / 4100 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

MSHA - FLAME RESISTANCE:
SLIDER™ complies with Flame Resistant requirements of Australian Standard AS 2660 and Methods 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -12) pages 188 to 208.
Assembly Instructions page 498.

T4000S – SLIDER COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T4004S	6	-04	6,3	1/4	11,8	0.46	280	4100	1120	16400	50	1.97	0,16	0.11	T2000
T4005S	8	-05	7,9	5/16	15,6	0.61	280	4100	1120	16400	55	2.17	0,34	0.23	T2000
T4006S	10	-06	9,5	3/8	16,6	0.65	280	4100	1120	16400	65	2.56	0,37	0.25	T2000
T4008S	12	-08	12,7	1/2	20,6	0.81	280	4100	1120	16400	90	3.55	0,51	0.34	T2000
T4010S	16	-10	15,9	5/8	23,4	0.92	280	4100	1120	16400	100	3.94	0,61	0.41	T2000
T4012S	19	-12	19,1	3/4	28,4	1.12	280	4100	1120	16400	120	4.73	0,92	0.62	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T5000A

COMPACT ISOBARIC HOSE
350 BAR / 5100 PSI

RECOMMENDED FOR:
Very high pressure hydraulic oil lines. Constant pressure (Isobaric) 350 bar / 5100 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: ISO 18752-AC.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame resistant & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings.

FEATURES:
Constant pressure 350 bar / 5100 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

MSHA - FLAME RESISTANCE:
AVENGER™ 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -08) pages 188 to 208.
Assembly Instructions page 498.

T5000A - AVENGER COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T5004A	6	-04	6,3	1/4	13,2	0.52	350	5100	1400	20400	50	1.97	0,28	0.19	T2000
T5005A	8	-05	7,9	5/16	15,6	0.61	350	5100	1400	20400	55	2.17	0,34	0.23	T2000
T5006A	10	-06	9,5	3/8	17,1	0.67	350	5100	1400	20400	65	2.56	0,41	0.28	T2000
T5008A	12	-08	12,7	1/2	20,6	0.81	350	5100	1400	20400	90	3.55	0,57	0.38	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T5000D

EXTRA ABRASION RESISTANT FRAS COMPACT ISOBARIC HOSE 350 BAR / 5100 PSI

RECOMMENDED FOR:
Very high pressure hydraulic oil lines. Constant pressure (Isobaric) 350 bar / 5100 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: ISO 18752-AC.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings.

FEATURES:
Constant pressure 350 bar / 5100 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -08) pages 188 to 208.
Assembly Instructions page 498.

T5000D – DIEHARD COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T5004D	6	-04	6,3	1/4	13,2	0.52	350	5100	1400	20400	50	1.97	0,28	0.19	T2000
T5005D	8	-05	7,9	5/16	15,6	0.61	350	5100	1400	20400	55	2.17	0,34	0.23	T2000
T5006D	10	-06	9,5	3/8	17,1	0.67	350	5100	1400	20400	65	2.56	0,41	0.28	T2000
T5008D	12	-08	12,7	1/2	20,6	0.81	350	5100	1400	20400	90	3.55	0,57	0.38	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T5000S

EXTREMELY ABRASION RESISTANT COMPACT ISOBARIC HOSE 350 BAR / 5100 PSI

RECOMMENDED FOR:
Very high pressure hydraulic oil lines. Constant pressure (Isobaric) 350 bar / 5100 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: ISO 18752-AC.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
SLIDER™ Black, oil and extremely abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame Resistant, MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings.

FEATURES:
Constant pressure 350 bar/5100 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

MSHA - FLAME RESISTANCE:
SLIDER™ complies with Flame Resistant requirements of Australian Standard AS 2660 and Methods 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -08) pages 188 to 208.
Assembly Instructions page 498.

T5000S – SLIDER COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T5004S	6	-04	6,3	1/4	13,2	0.52	350	5100	1400	20400	50	1.97	0,28	0.19	T2000
T5005S	8	-05	7,9	5/16	15,6	0.61	350	5100	1400	20400	55	2.17	0,34	0.23	T2000
T5006S	10	-06	9,5	3/8	17,1	0.67	350	5100	1400	20400	65	2.56	0,41	0.28	T2000
T5008S	12	-08	12,7	1/2	20,6	0.81	350	5100	1400	20400	90	3.55	0,57	0.38	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T6000A

COMPACT ISOBARIC HOSE
420 BAR / 6100 PSI

RECOMMENDED FOR:
Extremely high pressure hydraulic oil lines.
Constant pressure (Isobaric) 420 bar / 6100 psi in all sizes.
Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
ISO 18752-AC.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame resistant & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings.

FEATURES:
Constant pressure 420 bar / 6100 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

MSHA - FLAME RESISTANCE:
AVENGER™ 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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.

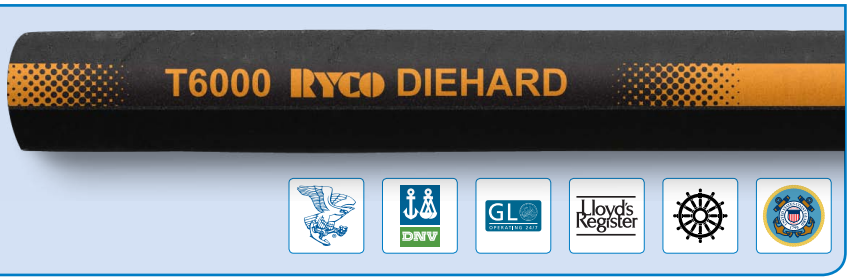
COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -06) pages 188 to 208.
Assembly Instructions page 498.

T6000A - AVENGER COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T6004A	6	-04	6,3	1/4	13,2	0.52	420	6100	1680	24400	50	1.97	0,28	0.19	T2000
T6005A	8	-05	7,9	5/16	15,6	0.61	420	6100	1680	24400	55	2.17	0,35	0.24	T2000
T6006A	10	-06	9,5	3/8	17,6	0.69	420	6100	1680	24400	65	2.56	0,47	0.32	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T6000D

EXTRA ABRASION RESISTANT FRAS COMPACT ISOBARIC HOSE 420 BAR / 6100 PSI



RECOMMENDED FOR:
Extremely high pressure hydraulic oil lines.
Constant pressure (Isobaric) 420 bar / 6100 psi in all sizes.
Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
ISO 18752-AC.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings.

FEATURES:
Constant pressure 420 bar / 6100 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -06) pages 188 to 208.
Assembly Instructions page 498.

T6000D – DIEHARD COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T6004D	6	-04	6,3	1/4	13,2	0.52	420	6100	1680	24400	50	1.97	0,28	0.19	T2000
T6005D	8	-05	7,9	5/16	15,6	0.61	420	6100	1680	24400	55	2.17	0,35	0.24	T2000
T6006D	10	-06	9,5	3/8	17,6	0.69	420	6100	1680	24400	65	2.56	0,47	0.32	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T6000S

EXTREMELY ABRASION RESISTANT COMPACT ISOBARIC HOSE 420 BAR / 6100 PSI

RECOMMENDED FOR:
Extremely high pressure hydraulic oil lines.
Constant pressure (Isobaric) 420 bar / 6100 psi in all sizes.
Small bend radius and compact dimensions are advantages in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
ISO 18752-AC.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
SLIDER™ Black, oil and extremely abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame Resistant, MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings.

FEATURES:
Constant pressure 420 bar / 6100 psi in all sizes for easy system design and hose selection. Small bend radius and compact dimensions are advantages in installations.

MSHA - FLAME RESISTANCE:
SLIDER™ complies with Flame Resistant requirements of Australian Standard AS 2660 and Methods 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:
-40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -06) pages 188 to 208.
Assembly Instructions page 498.

T6000S – SLIDER COMPACT ISOBARIC HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T6004S	6	-04	6,3	1/4	13,2	0.52	420	6100	1680	24400	50	1.97	0,28	0.19	T2000
T6005S	8	-05	7,9	5/16	15,6	0.61	420	6100	1680	24400	55	2.17	0,35	0.24	T2000
T6006S	10	-06	9,5	3/8	17,6	0.69	420	6100	1680	24400	65	2.56	0,47	0.32	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H3000A

ISOBARIC SPIRAL HOSE
215 BAR / 3100 PSI
MILLION CYCLE

RECOMMENDED FOR:
High pressure hydraulic oil lines.
Constant pressure (Isobaric) 215 bar / 3100 psi in all sizes.
Small bend radius is an advantage in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
EN 856 Type R12, EN 856 Type 4SP, ISO 18752-DC,
SAE 100R12.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four alternating layers of spiralled high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame Resistant & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles** at up to 1/2 SAE 100R12 Minimum Bend Radius. Constant pressure 215 bar / 3100 psi in all sizes for easy system design and hose selection. Small bend radius is an advantage in installations.

MSHA - FLAME RESISTANCE:
AVENGER™ 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:
-40°C to +121°C (-40°F to +250°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -20 to -32) pages 217 to 233.
Assembly Instructions page 498.

H3000A – AVENGER ISOBARIC SPIRAL HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H3020A	31	-20	31,8	1.1/4	45,7	1.80	215	3100	860	12400	200	7.9	2,27	1.53	T7000
H3024A	38	-24	38,1	1.1/2	50,3	1.98	215	3100	860	12400	250	9.8	2,35	1.58	T7000
H3032A	51	-32	50,8	2	63,3	2.49	215	3100	860	12400	400	15.8	3,40	2.28	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H3000D

EXTRA ABRASION RESISTANT
FRAS
ISOBARIC HOSE
215 BAR / 3100 PSI
MILLION CYCLE

RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 215 bar / 3100 psi in all sizes. Small bend radius is an advantage in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: EN 856 Type R12, EN 856 Type 4SP, ISO 18752-DC, SAE 100R12.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four alternating layers of spiralled high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles** at up to 1/2 SAE 100R12 Minimum Bend Radius. Constant pressure 215 bar / 3100 psi in all sizes for easy system design and hose selection. Small bend radius is an advantage in installations.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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:
-40°C to +121°C (-40°F to +250°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -20 to -32) pages 217 to 233.
Assembly Instructions page 498.

H3000D – DIEHARD ISOBARIC SPIRAL HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H3020D	31	-20	31,8	1.1/4	45,7	1.80	215	3100	860	12400	200	7.9	2,27	1.53	T7000
H3024D	38	-24	38,1	1.1/2	50,3	1.98	215	3100	860	12400	250	9.8	2,35	1.58	T7000
H3032D	51	-32	50,8	2	63,3	2.49	215	3100	860	12400	400	15.8	3,40	2.28	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H3000S

EXTREMELY ABRASION RESISTANT ISOBARIC SPIRAL HOSE

215 BAR / 3100 PSI

MILLION CYCLE

RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 215 bar / 3100 psi in all sizes. Small bend radius is an advantage in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: EN 856 Type R12, EN 856 Type 4SP, ISO 18752-DC, SAE 100R12

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four alternating layers of spiralled high tensile steel wire.

COVER:
SLIDER™ Black, oil and extremely abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame Resistant, MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles** at up to 1/2 SAE 100R12 Minimum Bend Radius. Constant pressure 215 bar / 3100 psi in all sizes for easy system design and hose selection. Small bend radius is an advantage in installations.

MSHA - FLAME RESISTANCE:
SLIDER™ complies with Flame Resistant requirements of Australian Standard AS 2660 and Methods 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:
-40°C to +121°C (-40°F to +250°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -20 to -32) pages 217 to 233.
Assembly Instructions page 498.

H3000S – SLIDER ISOBARIC SPIRAL HOSE															
			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H3020S	31	-20	31,8	1.1/4	45,7	1.80	215	3100	860	12400	200	7.9	2,27	1.53	T7000
H3024S	38	-24	38,1	1.1/2	50,3	1.98	215	3100	860	12400	250	9.8	2,35	1.58	T7000
H3032S	51	-32	50,8	2	63,3	2.49	215	3100	860	12400	400	15.8	3,40	2.28	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H4000A

ISOBARIC SPIRAL HOSE
280 BAR / 4100 PSI
MILLION CYCLE

RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 280 bar / 4100 psi in all sizes. Small bend radius is an advantage in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: EN 856 Type R12, EN 856 Type 4SP (size DN25, -16), ISO 18752-DC, SAE 100R12.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four (-06 to -24 size) and six (-32 size) alternating layers of spiralled high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame Resistant & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles** at up to 1/2 SAE 100R12 Minimum Bend Radius. Constant pressure 280 bar / 4100 psi in all sizes for easy system design and hose selection. Small bend radius is an advantage in installations.

MSHA - FLAME RESISTANCE:
AVENGER™ 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:
-40°C to +121°C, -40°F to +250°F.
For water, emulsions etc. see page 57.

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.

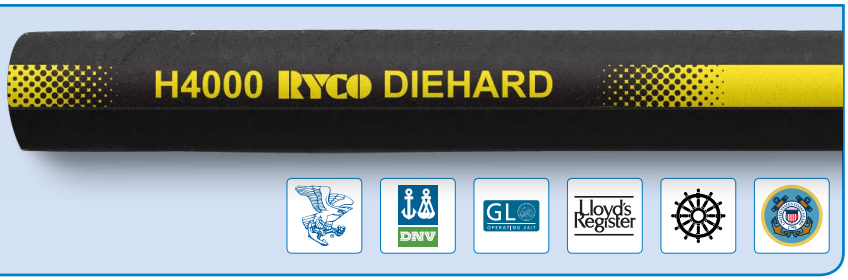
COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 498.

H4000A – AVENGER ISOBARIC SPIRAL HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H4006A	10	-06	9,5	3/8	19,3	0.76	280	4100	1120	16400	62	2.4	0,61	0.41	T7000
H4008A	12	-08	12,7	1/2	22,7	0.89	280	4100	1120	16400	90	3.5	0,78	0.52	T7000
H4010A	16	-10	15,9	5/8	24,9	0.98	280	4100	1120	16400	100	3.9	0,76	0.51	T7000
H4012A	19	-12	19,1	3/4	30,0	1.18	280	4100	1120	16400	120	4.7	1,13	0.76	T7000
H4016A	25	-16	25,4	1	36,9	1.45	280	4100	1120	16400	150	5.9	1,60	1.08	T7000
H4020A	31	-20	31,8	1.1/4	44,0	1.73	280	4100	1120	16400	210	8.3	2,07	1.39	T7000
H4024A	38	-24	38,1	1.1/2	50,8	2.00	280	4100	1120	16400	330	13.0	2,65	1.78	T7000
H4032A	51	-32	50,8	2	66,4	2.61	280	4100	1120	16400	400	15.8	4,73	3.18	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H4000D

EXTRA ABRASION RESISTANT
FRAS
ISOBARIC SPIRAL HOSE
280 BAR / 4100 PSI
MILLION CYCLE



RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 280 bar / 4100 psi in all sizes. Small bend radius is an advantage in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: EN 856 Type R12, EN 856 Type 4SP (size DN25, -16), ISO 18752-DC, SAE 100R12

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four (-06 to -24 size) and six (-32 size) alternating layers of spiralled high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles** at up to 1/2 SAE 100R12 Minimum Bend Radius. Constant pressure 280 bar / 4100 psi in all sizes for easy system design and hose selection. Small bend radius is an advantage in installations.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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:
-40°C to +121°C, -40°F to +250°F.
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 498.

H4000D – DIEHARD ISOBARIC SPIRAL HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H4006D	10	-06	9,5	3/8	19,3	0.76	280	4100	1120	16400	62	2.4	0,61	0.41	T7000
H4008D	12	-08	12,7	1/2	22,7	0.89	280	4100	1120	16400	90	3.5	0,78	0.52	T7000
H4010D	16	-10	15,9	5/8	24,9	0.98	280	4100	1120	16400	100	3.9	0,76	0.51	T7000
H4012D	19	-12	19,1	3/4	30,0	1.18	280	4100	1120	16400	120	4.7	1,13	0.76	T7000
H4016D	25	-16	25,4	1	36,9	1.45	280	4100	1120	16400	150	5.9	1,60	1.08	T7000
H4020D	31	-20	31,8	1.1/4	44,0	1.73	280	4100	1120	16400	210	8.3	2,07	1.39	T7000
H4024D	38	-24	38,1	1.1/2	50,8	2.00	280	4100	1120	16400	330	13.0	2,65	1.78	T7000
H4032D	51	-32	50,8	2	66,4	2.61	280	4100	1120	16400	400	15.8	4,73	3.18	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H4000S

EXTREMELY ABRASION RESISTANT ISOBARIC SPIRAL HOSE 280 BAR / 4100 PSI **MILLION CYCLE**

RECOMMENDED FOR:
High pressure hydraulic oil lines. Constant pressure (Isobaric) 280 bar / 4100 psi in all sizes. Small bend radius is an advantage in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: EN 856 Type R12, EN 856 Type 4SP (size DN25, -16), ISO 18752-DC, SAE 100R12.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four (-06 to -24 size) and six (-32 size) alternating layers of spiralled high tensile steel wire.

COVER:
SLIDER™ Black, oil and extremely abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame Resistant, MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles** at up to 1/2 SAE 100R12 Minimum Bend Radius. Constant pressure 280 bar / 4100 psi in all sizes for easy system design and hose selection. Small bend radius is an advantage in installations.

MSHA - FLAME RESISTANCE:
SLIDER™ complies with Flame Resistant requirements of Australian Standard AS 2660 and Methods 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:
-40°C to +121°C, -40°F to +250°F.
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 498.

H4000S – SLIDER ISOBARIC SPIRAL HOSE															
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H4006S	10	-06	9,5	3/8	19,3	0.76	280	4100	1120	16400	62	2.4	0,61	0.41	T7000
H4008S	12	-08	12,7	1/2	22,7	0.89	280	4100	1120	16400	90	3.5	0,78	0.52	T7000
H4010S	16	-10	15,9	5/8	24,9	0.98	280	4100	1120	16400	100	3.9	0,76	0.51	T7000
H4012S	19	-12	19,1	3/4	30,0	1.18	280	4100	1120	16400	120	4.7	1,13	0.76	T7000
H4016S	25	-16	25,4	1	36,9	1.45	280	4100	1120	16400	150	5.9	1,60	1.08	T7000
H4020S	31	-20	31,8	1.1/4	44,0	1.73	280	4100	1120	16400	210	8.3	2,07	1.39	T7000
H4024S	38	-24	38,1	1.1/2	50,8	2.00	280	4100	1120	16400	330	13.0	2,65	1.78	T7000
H4032S	51	-32	50,8	2	66,4	2.61	280	4100	1120	16400	400	15.8	4,73	3.18	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H5000A

ISOBARIC SPIRAL HOSE
350 BAR / 5100 PSI
MILLION CYCLE

RECOMMENDED FOR:
Very high pressure hydraulic oil lines.
Constant pressure (Isobaric) 350 bar / 5100 psi in all sizes.
Small bend radius is an advantage in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
EN 856 Type R13, ISO 18752-CC, SAE 100R13.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four (-06 to -20 size) and six (-24 to -32 size) alternating layers of spiralled high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame Resistant & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 and T9000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles** at up to 1/2 SAE 100R13 Minimum Bend Radius. Constant pressure 350 bar / 5100 psi in all sizes for easy system design and hose selection. Small bend radius is an advantage in installations.

MSHA - FLAME RESISTANCE:
AVENGER™ 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:
-40°C to +121°C, -40°F to +250°F.
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -24) pages 217 to 233.
T9000 Series (size -32) pages 234 to 240.
Assembly Instructions page 498.

H5000A - AVENGER ISOBARIC SPIRAL HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
H5006A	10	-06	9,5	3/8	19,3	0.76	350	5100	1400	20400	62	2.4	0,61	0.41	T7000	
H5008A	12	-08	12,7	1/2	22,7	0.89	350	5100	1400	20400	90	3.5	0,78	0.52	T7000	
H5010A	16	-10	15,9	5/8	26,2	1.03	350	5100	1400	20400	100	3.9	0,98	0.66	T7000	
H5012A	19	-12	19,1	3/4	29,6	1.17	350	5100	1400	20400	120	4.7	1,21	0.81	T7000	
H5016A	25	-16	25,4	1	36,8	1.45	350	5100	1400	20400	150	5.9	1,72	1.16	T7000	
H5020A	31	-20	31,8	1.1/4	45,0	1.77	350	5100	1400	20400	210	8.3	2,42	1.63	T7000	
H5024A	38	-24	38,1	1.1/2	52,7	2.07	350	5100	1400	20400	330	13.0	3,44	2.31	T7000	
H5032A	51	-32	50,8	2	67,5	2.66	350	5100	1400	20400	400	15.8	5,40	3.63		T9000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H5000D

EXTRA ABRASION RESISTANT FRAS ISOBARIC SPIRAL HOSE 350 BAR / 5100 PSI **MILLION CYCLE**

RECOMMENDED FOR:
Very high pressure hydraulic oil lines. Constant pressure (Isobaric) 350 bar / 5100 psi in all sizes. Small bend radius is an advantage in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: EN 856 Type R13, ISO 18752-CC, SAE100R13.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four (-06 to -20 size) and six (-24 to -32 size) alternating layers of spiralled high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 and T9000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles** at up to 1/2 SAE 100R13 Minimum Bend Radius. Constant pressure 350 bar / 5100 psi in all sizes for easy system design and hose selection. Small bend radius is an advantage in installations.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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:
-40°C to +121°C, -40°F to +250°F.
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -24) pages 217 to 233.
T9000 Series (size -32) pages 234 to 233.
Assembly Instructions page 498.

H5000D – DIEHARD ISOBARIC SPIRAL HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
H5006D	10	-06	9,5	3/8	19,3	0.76	350	5100	1400	20400	62	2.4	0,61	0.41	T7000	
H5008D	12	-08	12,7	1/2	22,7	0.89	350	5100	1400	20400	90	3.5	0,78	0.52	T7000	
H5010D	16	-10	15,9	5/8	26,2	1.03	350	5100	1400	20400	100	3.9	0,98	0.66	T7000	
H5012D	19	-12	19,1	3/4	29,6	1.17	350	5100	1400	20400	120	4.7	1,21	0.81	T7000	
H5016D	25	-16	25,4	1	36,8	1.45	350	5100	1400	20400	150	5.9	1,72	1.16	T7000	
H5020D	31	-20	31,8	1.1/4	45,0	1.77	350	5100	1400	20400	210	8.3	2,42	1.63	T7000	
H5024D	38	-24	38,1	1.1/2	52,7	2.07	350	5100	1400	20400	330	13.0	3,44	2.31	T7000	
H5032D	51	-32	50,8	2	67,5	2.66	350	5100	1400	20400	400	15.8	5,40	3.63		T9000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H5000S

EXTREMELY ABRASION RESISTANT ISOBARIC SPIRAL HOSE

350 BAR / 5100 PSI

MILLION CYCLE

RECOMMENDED FOR:
Very high pressure hydraulic oil lines. Constant pressure (Isobaric) 350 bar / 5100 psi in all sizes. Small bend radius is an advantage in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: EN 856 Type R13, ISO 18752-CC, SAE 100R13.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four (-06 to -20 size) and six (-24 to -32 size) alternating layers of spiralled high tensile steel wire.

COVER:
SLIDER™ Black, oil and extremely abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame Resistant, MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 and T9000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles** at up to 1/2 SAE 100R13 Minimum Bend Radius. Constant pressure 350 bar / 5100 psi in all sizes for easy system design and hose selection. Small bend radius is an advantage in installations.

MSHA - FLAME RESISTANCE:
SLIDER™ complies with Flame Resistant requirements of Australian Standard AS 2660 and Methods 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:
-40°C to +121°C, -40°F to +250°F.
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -24) pages 217 to 233.
T9000 Series (size -32) pages 234 to 240.
Assembly Instructions page 498.

H5000S – SLIDER ISOBARIC SPIRAL HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
H5006S	10	-06	9,5	3/8	19,3	0.76	350	5100	1400	20400	62	2.4	0,61	0.41	T7000	
H5008S	12	-08	12,7	1/2	22,7	0.89	350	5100	1400	20400	90	3.5	0,78	0.52	T7000	
H5010S	16	-10	15,9	5/8	26,2	1.03	350	5100	1400	20400	100	3.9	0,98	0.66	T7000	
H5012S	19	-12	19,1	3/4	29,6	1.17	350	5100	1400	20400	120	4.7	1,21	0.81	T7000	
H5016S	25	-16	25,4	1	36,8	1.45	350	5100	1400	20400	150	5.9	1,72	1.16	T7000	
H5020S	31	-20	31,8	1.1/4	45,0	1.77	350	5100	1400	20400	210	8.3	2,42	1.63	T7000	
H5024S	38	-24	38,1	1.1/2	52,7	2.07	350	5100	1400	20400	330	13.0	3,44	2.31	T7000	
H5032S	51	-32	50,8	2	67,5	2.66	350	5100	1400	20400	400	15.8	5,40	3.63		T9000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H6000A

ISOBARIC SPIRAL HOSE
420 BAR / 6100 PSI
MILLION CYCLE

RECOMMENDED FOR:
Extremely high pressure hydraulic oil lines.
Constant pressure (Isobaric) 420 bar / 6100 psi in all sizes.
Small bend radius is an advantage in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
EN 856 Type R15, ISO 18752-CC, SAE 100R15.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four (-06 to -16 size), six (-20 to -24 size) and eight (-32 size) alternating layers of spiralled high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame Resistant & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 and T9000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles** at up to 1/2 SAE 100R15 Minimum Bend Radius. **World First:** World's first 2" (-32) hose tested to 1 million impulse cycles at 400mm (15.8") Minimum Bend Radius. Constant pressure 420 bar / 6100 psi in all sizes for easy system design and hose selection. Small bend radius is an advantage in installations.

MSHA - FLAME RESISTANCE:
AVENGER™ 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:
-40°C to +121°C (-40°F to +250°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -20) pages 217 to 233.
T9000 Series (size -24) pages 234 to 240.
Assembly Instructions page 498.

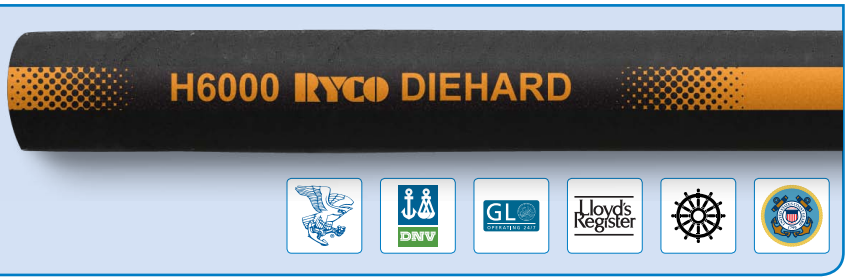
BITELOK SKIVE TWO-PIECE CRIMP
69000N Series (sizes -12 to -32) pages 245 to 251.
Assembly Instructions page 504.

H6000A - AVENGER ISOBARIC SPIRAL HOSE																	
			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES	
PART NO	HOSE SIZE														ONE PIECE	2 PC
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE		SKIVE
H6006A	10	-06	9,5	3/8	19,3	0.76	420	6100	1680	24400	75	2.9	0,61	0.41	T7000		
H6008A	12	-08	12,7	1/2	22,7	0.89	420	6100	1680	24400	100	3.9	0,78	0.52	T7000		
H6010A	16	-10	15,9	5/8	26,2	1.03	420	6100	1680	24400	110	4.3	1,00	0.67	T7000		
H6012A	19	-12	19,1	3/4	30,6	1.20	420	6100	1680	24400	115	4.5	1,38	0.93	T7000		69000N
H6016A	25	-16	25,4	1	37,5	1.48	420	6100	1680	24400	165	6.5	1,99	1.34	T7000		69000N
H6020A	31	-20	31,8	1.1/4	46,4	1.83	420	6100	1680	24400	220	8.7	2,97	2.00	T7000		69000N
H6024A	38	-24	38,1	1.1/2	53,1	2.09	420	6100	1680	24400	350	13.8	3,81	2.56		T9000	69000N
H6032A	51	-32	50,8	2	71,5	2.81	420	6100	1680	24400	400	15.8	7,10	4.77			69000N

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H6000D

EXTRA ABRASION RESISTANT
FRAS
ISOBARIC SPIRAL HOSE
420 BAR / 6100 PSI
MILLION CYCLE



RECOMMENDED FOR:
Extremely high pressure hydraulic oil lines.
Constant pressure (Isobaric) 420 bar / 6100 psi in all sizes.
Small bend radius is an advantage in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
EN 856 Type R15, ISO 18752-CC, SAE 100R15.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four (-06 to -16 size), six (-20 to -24 size) and eight (-32 size) alternating layers of spiralled high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 and T9000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles** at up to 1/2 SAE 100R15 Minimum Bend Radius. **World First:** World's first 2" (-32) hose tested to 1 million impulse cycles at 400mm (15.8") Minimum Bend Radius. Constant pressure 420 bar / 6100 psi in all sizes for easy system design and hose selection. Small bend radius is an advantage in installations.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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:
-40°C to +121°C (-40°F to +250°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -20) pages 217 to 233.
T9000 Series (size -24) pages 234 to 240.
Assembly Instructions page 498.

BITELOK SKIVE TWO-PIECE CRIMP
69000N Series (sizes -12 to -32) pages 245 to 251.
Assembly Instructions page 504.

H6000D – DIEHARD ISOBARIC SPIRAL HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES	
PART NO	HOSE SIZE														ONE PIECE	2 PC
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	SKIVE
H6006D	10	-06	9,5	3/8	19,3	0.76	420	6100	1680	24400	75	2.9	0,61	0.41	T7000	
H6008D	12	-08	12,7	1/2	22,7	0.89	420	6100	1680	24400	100	3.9	0,78	0.52	T7000	
H6010D	16	-10	15,9	5/8	26,2	1.03	420	6100	1680	24400	110	4.3	1,00	0.67	T7000	
H6012D	19	-12	19,1	3/4	30,6	1.20	420	6100	1680	24400	115	4.5	1,38	0.93	T7000	69000N
H6016D	25	-16	25,4	1	37,5	1.48	420	6100	1680	24400	165	6.5	1,99	1.34	T7000	69000N
H6020D	31	-20	31,8	1.1/4	46,4	1.83	420	6100	1680	24400	220	8.7	2,97	2.00	T7000	69000N
H6024D	38	-24	38,1	1.1/2	53,1	2.09	420	6100	1680	24400	350	13.8	3,81	2.56	T9000	69000N
H6032D	51	-32	50,8	2	71,5	2.81	420	6100	1680	24400	400	15.8	7,10	4.77		69000N

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H6000S

EXTRA ABRASION RESISTANT FRAS ISOBARIC SPIRAL HOSE 420 BAR / 6100 PSI MILLION CYCLE

RECOMMENDED FOR:
Extremely high pressure hydraulic oil lines.
Constant pressure (Isobaric) 420 bar / 6100 psi in all sizes.
Small bend radius is an advantage in installations.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
ISO 3862 Type R15, ISO 18752-CC, SAE 100R15.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four (-06 to -16 size), six (-20 to -24 size) and eight (-32 size) alternating layers of spiralled high tensile steel wire.

COVER:
SLIDER™ Black, oil and extremely abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame Resistant, MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 and T9000 Series BITELOK Crimp Couplings.

FEATURES:
Tested to **1 million impulse cycles** at up to 1/2 SAE 100R15 Minimum Bend Radius. **World First:** World's first 2" (-32) hose tested to 1 million impulse cycles at 400mm (15.8") Minimum Bend Radius. Constant pressure 420 bar / 6100 psi in all sizes for easy system design and hose selection. Small bend radius is an advantage in installations.

MSHA - FLAME RESISTANCE:
SLIDER™ complies with Flame Resistant requirements of Australian Standard AS 2660 and Methods 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:
-40°C to +121°C (-40°F to +250°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -20) pages 217 to 233.
T9000 Series (size -24) pages 234 to 240.
Assembly Instructions page 498.

BITELOK SKIVE TWO-PIECE CRIMP
69000N Series (sizes -12 to -32) pages 245 to 251.
Assembly Instructions page 504.

H6000S – DIEHARD ISOBARIC SPIRAL HOSE																
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES	
														ONE PIECE	2 PC
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	SKIVE
H6006S	10	-06	9,5	3/8	19,3	0.76	420	6100	1680	24400	75	2.9	0,61	0.41	T7000	
H6008S	12	-08	12,7	1/2	22,7	0.89	420	6100	1680	24400	100	3.9	0,78	0.52	T7000	
H6010S	16	-10	15,9	5/8	26,2	1.03	420	6100	1680	24400	110	4.3	1,00	0.67	T7000	
H6012S	19	-12	19,1	3/4	30,6	1.20	420	6100	1680	24400	115	4.5	1,38	0.93	T7000	69000N
H6016S	25	-16	25,4	1	37,5	1.48	420	6100	1680	24400	165	6.5	1,99	1.34	T7000	69000N
H6020S	31	-20	31,8	1.1/4	46,4	1.83	420	6100	1680	24400	220	8.7	2,97	2.00	T7000	69000N
H6024S	38	-24	38,1	1.1/2	53,1	2.09	420	6100	1680	24400	350	13.8	3,81	2.56	T9000	69000N
H6032S	51	-32	50,8	2	71,5	2.81	420	6100	1680	24400	400	15.8	7,10	4.77		69000N

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T1A
ONE WIRE
NON SKIVE HOSE

RECOMMENDED FOR:
High pressure hydraulic oil lines.

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

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One braid of high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame resistant & MSHA compliant. No skiving required with T2000 & T7000 Series BITELOK Crimp Couplings and K000 Series Field Attachable Couplings.

MSHA - FLAME RESISTANCE:
AVENGER™ 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 water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -03 to -32) pages 188 to 208.
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
6000 Series insert (sizes -03 to -16) pages 276 to 290.
K000 Series ferrule (sizes -03 to -16) page 276.
Assembly Instructions page 496.

T1A - AVENGER NON-SKIVE HOSE															COUPLING SERIES	
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		ONE PIECE	FIELD ATT
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
T13A	5	-03	4,8	3/16	11,7	0.46	250	3600	1000	14500	35	1.4	0,19	0.13	T2000	6000 (K000)
T14A	6	-04	6,3	1/4	13,3	0.52	225	3250	900	13000	38	1.5	0,22	0.15	T2000	6000 (K000)
T15A	8	-05	7,9	5/16	14,9	0.59	215	3100	860	12400	50	2.0	0,25	0.17	T2000	
T16A	10	-06	9,5	3/8	17,3	0.68	180	2600	720	10400	50	2.0	0,31	0.21	T2000	T7000 6000 (K000)
T18A	12	-08	12,7	1/2	20,3	0.80	160	2300	640	9200	75	3.0	0,39	0.26	T2000	T7000 6000 (K000)
T110A	16	-10	15,9	5/8	23,6	0.93	130	1900	520	7600	89	3.5	0,49	0.33	T2000	T7000 6000 (K000)
T112A	19	-12	19,1	3/4	27,6	1.09	105	1500	420	6000	109	4.3	0,62	0.42	T2000	T7000 6000 (K000)
T116A	25	-16	25,4	1	35,5	1.40	90	1300	360	5200	140	5.5	0,90	0.60	T2000	T7000 6000 (K000)
T120A	31	-20	31,8	1.1/4	43,2	1.70	65	945	260	3780	419	16.5	1,21	0.81	T2000	T7000
T124A	38	-24	38,1	1.1/2	50,2	1.98	50	725	200	2900	500	19.7	1,45	0.97	T2000	T7000
T132A	51	-32	50,8	2	63,6	2.50	40	580	160	2320	600	23.6	2,09	1.40	T2000	T7000

* When using A000 Series Field Attachable Couplings on T1A Series Hose, cover of hose must be skived at ends.
** Tighter Minimum Bend Radius up to 1" does not apply when used with T7000 Series Couplings – refer to standard SAE Bend Radius with T7000 Series. Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T1D

EXTRA ABRASION RESISTANT FRAS ONE WIRE BRAID HOSE

RECOMMENDED FOR:
High pressure hydraulic oil lines in applications where the outside cover of the hose is subjected to abrasion that may cause premature failure of standard hoses.

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

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One braid of high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 & T7000 Series BITELOK Crimp Couplings and K000 Series Field Attachable Couplings.

FEATURES:
The very high abrasion resistant properties of the cover, combined with the high working pressures and excellent impulse life, when tested to EN 853 Type 1SN/SAE 100R1AT test conditions, result in increased service life and minimise equipment downtime.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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 water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -03 to -32) pages 188 to 208.
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
6000 Series insert (sizes -03 to -16) pages 276 to 290.
K000 Series ferrule (sizes -03 to -16) page 276.
Assembly Instructions page 496.

T1D – DIEHARD NON-SKIVE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
PART NO	HOSE SIZE														ONE PIECE		FIELD ATT
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE		
T13D	5	-03	4,8	3/16	11,7	0.46	250	3600	1000	14500	35	1.4	0,19	0.13	T2000		6000 (K000)
T14D	6	-04	6,3	1/4	13,3	0.52	225	3250	900	13000	38	1.5	0,22	0.15	T2000		6000 (K000)
T15D	8	-05	7,9	5/16	14,9	0.59	215	3100	860	12400	50	2.0	0,25	0.17	T2000		
T16D	10	-06	9,5	3/8	17,3	0.68	180	2600	720	10400	50	2.0	0,31	0.21	T2000	T7000	6000 (K000)
T18D	12	-08	12,7	1/2	20,3	0.80	160	2300	640	9200	75	3.0	0,39	0.26	T2000	T7000	6000 (K000)
T110D	16	-10	15,9	5/8	23,6	0.93	130	1900	520	7600	89	3.5	0,49	0.33	T2000	T7000	6000 (K000)
T112D	19	-12	19,1	3/4	27,6	1.09	105	1500	420	6000	109	4.3	0,62	0.42	T2000	T7000	6000 (K000)
T116D	25	-16	25,4	1	35,5	1.40	90	1300	360	5200	140	5.5	0,90	0.60	T2000	T7000	6000 (K000)
T120D	31	-20	31,8	1.1/4	43,2	1.70	65	945	260	3780	419	16.5	1,21	0.81	T2000	T7000	
T124D	38	-24	38,1	1.1/2	50,2	1.98	50	725	200	2900	500	19.7	1,45	0.97	T2000	T7000	
T132D	51	-32	50,8	2	63,6	2.50	40	580	160	2320	600	23.6	2,09	1.40	T2000	T7000	

* When using A000 Series Field Attachable Couplings on T1D Series Hose, cover of hose must be skived at ends.
** Tighter Minimum Bend Radius up to 1" does not apply when used with T7000 Series Couplings – refer to standard SAE Bend Radius with T7000 Series. Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T1S

EXTREMELY ABRASION RESISTANT ONE WIRE BRAID HOSE

RECOMMENDED FOR:
High pressure hydraulic oil lines.

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

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One braid of high tensile steel wire.

COVER:
SLIDER™ Black, oil and extremely abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame Resistant, MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 & T7000 Series BITELOK Crimp Couplings.

MSHA - FLAME RESISTANCE:
SLIDER™ complies with Flame Resistant requirements of Australian Standard AS 2660 and Methods 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 water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -03 to -32) pages 188 to 208.
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 498.

T1S – SLIDER NON-SKIVE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
T13S	5	-03	4,8	3/16	11,7	0.46	250	3600	1000	14500	35	1.4	0,19	0.13	T2000	
T14S	6	-04	6,3	1/4	13,3	0.52	225	3250	900	13000	38	1.5	0,22	0.15	T2000	
T15S	8	-05	7,9	5/16	14,9	0.59	215	3100	860	12400	50	2.0	0,25	0.17	T2000	
T16S	10	-06	9,5	3/8	17,3	0.68	180	2600	720	10400	50	2.0	0,31	0.21	T2000	T7000
T18S	12	-08	12,7	1/2	20,3	0.80	160	2300	640	9200	75	3.0	0,39	0.26	T2000	T7000
T110S	16	-10	15,9	5/8	23,6	0.93	130	1900	520	7600	89	3.5	0,49	0.33	T2000	T7000
T112S	19	-12	19,1	3/4	27,6	1.09	105	1500	420	6000	109	4.3	0,62	0.42	T2000	T7000
T116S	25	-16	25,4	1	35,5	1.40	90	1300	360	5200	140	5.5	0,90	0.60	T2000	T7000
T120S	31	-20	31,8	1.1/4	43,2	1.70	65	945	260	3780	419	16.5	1,21	0.81	T2000	T7000
T124S	38	-24	38,1	1.1/2	50,2	1.98	50	725	200	2900	500	19.7	1,45	0.97	T2000	T7000
T132S	51	-32	50,8	2	63,6	2.50	40	580	160	2320	600	23.6	2,09	1.40	T2000	T7000

* Tighter Minimum Bend Radius up to 1" does not apply when used with T7000 Series Couplings – refer to standard SAE Bend Radius with T7000 Series. Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T1F

FIRE SUPPRESSION
ONE WIRE BRAID HOSE

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.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: AS 3791 100R1AT, DIN 20022-1SN, EN 853 Type 1SN, ISO 1436 Types R1AT & 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 & T7000 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).
For water, emulsions etc. see page 57.

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

THIRD PARTY APPROVALS:
MED.

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -03 to -16) pages 188 to 208.
T7000 Series (sizes -06 to -16) pages 217 to 233.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
6000 Series insert (sizes -03 to -16) pages 276 to 290.
K000 Series ferrule (sizes -03 to -16) page 276.
Assembly Instructions page 496.

T1F – FIRE SUPPRESSION NON-SKIVE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
PART NO	HOSE SIZE														ONE PIECE		FIELD ATT
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	T7000	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	T7000	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	T7000	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	T7000	6000 (K000)
T116F	25	-16	25,4	1	35,5	1.40	90	1300	360	5200	300	11.8	0,90	0.60	T2000	T7000	6000 (K000)

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T2A
TWO WIRE
NON SKIVE HOSE

RECOMMENDED FOR:
High pressure hydraulic oil lines.

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

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame resistant & MSHA compliant. No skiving required with T2000 & T7000 Series BITELOK Crimp Couplings and L000 Series Field Attachable Couplings.

MSHA - FLAME RESISTANCE:
AVENGER™ 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 water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -48) pages 188 to 208.
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
6000 Series insert (sizes -04 to -20) pages 276 to 290.
L000 Series ferrule (sizes -04 to -20) page 276.
Assembly Instructions page 496.

T2A - AVENGER NON-SKIVE HOSE																	
			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
PART NO	HOSE SIZE														ONE PIECE		FIELD ATT
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE		
T24A	6	-04	6,3	1/4	14,9	0.59	420	6100	1680	24400	100	3.9	0,35	0.24	T2000		6000 (L000)
T25A	8	-05	7,9	5/16	16,5	0.65	350	5100	1400	20400	114	4.5	0,42	0.28	T2000		
T26A	10	-06	9,5	3/8	18,9	0.74	350	5100	1400	20400	127	5.0	0,51	0.34	T2000	T7000	6000 (L000)
T28A	12	-08	12,7	1/2	21,9	0.86	350	5100	1400	20400	178	7.0	0,65	0.44	T2000	T7000	6000 (L000)
T210A	16	-10	15,9	5/8	25,1	0.99	250	3600	1000	14400	200	7.9	0,75	0.50	T2000	T7000	6000 (L000)
T212A	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)
T216A	25	-16	25,4	1	37,5	1.48	175	2500	700	10000	300	11.8	1,30	0.87	T2000	T7000	6000 (L000)
T220A	31	-20	31,8	1.1/4	47,6	1.87	140	2000	560	8000	419	16.5	1,97	1.33	T2000	T7000	6000 (L000)
T224A	38	-24	38,1	1.1/2	54,1	2.13	100	1450	400	5800	500	19.7	2,48	1.67	T2000	T7000	
T232A	51	-32	50,8	2	66,8	2.63	90	1300	360	5200	600	23.6	3,02	2.03	T2000	T7000	
T240A	63	-40	63,5	2.1/2	80,1	3.15	70	1000	280	4000	760	29.9	3,70	2.49	T2000		
T248A	76	-48	76,2	3	91,3	3.59	70	1000	280	4000	900	35.4	3,99	2.68	T2000		

* When using B000 Series Field Attachable Couplings on T2A Series Hose, cover of hose must be skived at ends.
Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T2D

EXTRA ABRASION RESISTANT FRAS TWO WIRE BRAID HOSE

RECOMMENDED FOR:
High pressure hydraulic oil lines in applications where the outside cover of the hose is subjected to abrasion that may cause premature failure of standard hoses.

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

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 & T7000 Series BITELOK Crimp Couplings and L000 Series Field Attachable Couplings.

FEATURES:
The very high abrasion resistant properties of the cover, combined with the high working pressures and excellent impulse life when tested to EN 853 Type 2SN/SAE 100R2AT test conditions result in, increased service life and minimise equipment downtime.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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 water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -48) pages 188 to 208.
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
6000 Series insert (sizes -04 to -20) pages 276 to 290.
L000 Series ferrule (sizes -04 to -20) page 276.
Assembly Instructions page 496.

T2D – DIEHARD NON-SKIVE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
PART NO	HOSE SIZE														ONE PIECE		FIELD ATT
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE		
T24D	6	-04	6,3	1/4	14,9	0.59	420	6100	1680	24400	100	3.9	0,35	0.24	T2000		6000 (L000)
T25D	8	-05	7,9	5/16	16,5	0.65	350	5100	1400	20400	114	4.5	0,42	0.28	T2000		
T26D	10	-06	9,5	3/8	18,9	0.74	350	5100	1400	20400	127	5.0	0,51	0.34	T2000	T7000	6000 (L000)
T28D	12	-08	12,7	1/2	21,9	0.86	350	5100	1400	20400	178	7.0	0,65	0.44	T2000	T7000	6000 (L000)
T210D	16	-10	15,9	5/8	25,1	0.99	250	3600	1000	14400	200	7.9	0,75	0.50	T2000	T7000	6000 (L000)
T212D	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)
T216D	25	-16	25,4	1	37,5	1.48	175	2500	700	10000	300	11.8	1,30	0.87	T2000	T7000	6000 (L000)
T220D	31	-20	31,8	1.1/4	47,6	1.87	140	2000	560	8000	419	16.5	1,97	1.33	T2000	T7000	6000 (L000)
T224D	38	-24	38,1	1.1/2	54,1	2.13	100	1450	400	5800	500	19.7	2,48	1.67	T2000	T7000	
T232D	51	-32	50,8	2	66,8	2.63	90	1300	360	5200	600	23.6	3,02	2.03	T2000	T7000	
T240D	63	-40	63,5	2.1/2	80,1	3.15	70	1000	280	4000	760	29.9	3,70	2.49	T2000		
T248D	76	-48	76,2	3	91,3	3.59	70	1000	280	4000	900	35.4	3,99	2.68	T2000		

* When using B000 Series Field Attachable Couplings on T2D Series Hose, cover of hose must be skived at ends.
Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T2S

EXTREMELY ABRASION RESISTANT TWO WIRE BRAID HOSE

RECOMMENDED FOR:
High pressure hydraulic oil lines in applications where the outside cover of the hose is subjected to sliding abrasion that may cause premature failure of standard hoses.

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

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
SLIDER™ Black, oil and extremely abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame Resistant, MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 & T7000 Series BITELOK Crimp Couplings.

MSHA - FLAME RESISTANCE:
SLIDER™ complies with Flame Resistant requirements of Australian Standard AS 2660 and Methods 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 water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -32) pages 188 to 208.
T7000 Series (sizes -05 to -32) pages 217 to 233.
Assembly Instructions page 498.

T2S – SLIDER NON-SKIVE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
T24S	6	-04	6,3	1/4	14,9	0.59	420	6100	1680	24400	100	3.9	0,35	0.24	T2000	
T25S	8	-05	7,9	5/16	16,5	0.65	350	5100	1400	20400	114	4.5	0,42	0.28	T2000	T7000
T26S	10	-06	9,5	3/8	18,9	0.74	350	5100	1400	20400	127	5.0	0,51	0.34	T2000	T7000
T28S	12	-08	12,7	1/2	21,9	0.86	350	5100	1400	20400	178	7.0	0,65	0.44	T2000	T7000
T210S	16	-10	15,9	5/8	25,1	0.99	250	3600	1000	14400	200	7.9	0,75	0.50	T2000	T7000
T212S	19	-12	19,1	3/4	29,1	1.15	215	3100	860	12400	240	9.5	0,93	0.62	T2000	T7000
T216S	25	-16	25,4	1	37,5	1.48	175	2500	700	10000	300	11.8	1,30	0.87	T2000	T7000
T220S	31	-20	31,8	1.1/4	47,6	1.87	140	2000	560	8000	419	16.5	1,97	1.33	T2000	T7000
T224S	38	-24	38,1	1.1/2	54,1	2.13	100	1450	400	5800	500	19.7	2,48	1.67	T2000	T7000
T232S	51	-32	50,8	2	66,8	2.63	90	1300	360	5200	600	23.6	3,02	2.03	T2000	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T2C
LOW TEMPERATURE HOSE

RECOMMENDED FOR:
High pressure hydraulic oil lines in applications where low temperature environmental conditions exist.

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

TUBE:
Black, specially formulated oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
Black, oil resistant and abrasion resistant synthetic rubber. No skiving required with T2000 & T7000 Series BITELOK Crimp Couplings.

FEATURES:
Low Temperature hose (-50°C/-58°F).

TEMPERATURE RANGE:
From -50°C to +100°C (-58°F to +212°F).
For water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -32) pages 188 to 208.
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 498.

T2C LOW TEMPERATURE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
T24C	6	-04	6,3	1/4	15,0	0.59	420	6100	1680	24400	100	4.0	0,38	0.26	T2000	
T25C	8	-05	7,9	5/16	16,6	0.65	350	5100	1400	20400	114	4.5	0,46	0.31	T2000	
T26C	10	-06	9,5	3/8	19,0	0.75	350	5100	1400	20400	127	5.0	0,56	0.38	T2000	T7000
T28C	12	-08	12,7	1/2	22,2	0.87	350	5100	1400	20400	178	7.0	0,65	0.44	T2000	T7000
T210C	16	-10	15,9	5/8	25,2	0.99	250	3600	1000	14400	200	8.0	0.80	0.54	T2000	T7000
T212C	19	-12	19,0	3/4	29,1	1.15	215	3100	860	12400	240	9.5	0,94	0.63	T2000	T7000
T216C	25	-16	25,4	1	37,2	1.46	175	2500	700	10000	300	12.0	1,31	0.88	T2000	T7000
T220C	31	-20	31,8	1.1/4	47,4	1.87	140	2000	560	8000	419	16.5	1,91	1.28	T2000	T7000
T224C	38	-24	38,1	1.1/2	53,8	2.12	100	1450	400	5800	500	20.0	2,14	1.44	T2000	T7000
T232C	51	-32	50,8	2	66,7	2.63	90	1300	360	5200	600	24.0	2,78	1.87	T2000	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

TXA2D

EXTRA ABRASION RESISTANT
EXTRA HIGH PRESSURE
FRAS
TWO WIRE BRAID HOSE

RECOMMENDED FOR:
High pressure hydraulic oil lines in applications where the outside cover of the hose is subjected to abrasion that may cause premature failure of standard hoses. Ideal for high pressure use that requires a smaller outside diameter (except -20 size), lighter weight, and more flexibility than spiral hose.

PERFORMANCE:
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.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 & T7000 Series BITELOK Crimp Couplings and L000 Series Field Attachable Couplings.

FEATURES:
The very high abrasion resistant properties of the cover, combined with the high working pressures and excellent impulse life, when tested to EN 853 Type 2SN/SAE 100R2AT test conditions, result in increased service life and minimise equipment downtime.

FLAME RESISTANCE:
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 water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -08 to -16) pages 188 to 208.
T7000 Series (sizes -08 to -16) pages 217 to 233.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
6000 Series insert (sizes -08 to -16) pages 276 to 290.
L000 Series ferrule (sizes -08 to -16) page 276.
Assembly Instructions page 496.

TXA2D – DIEHARD AGGRESSOR NON-SKIVE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
PART NO	HOSE SIZE														ONE PIECE		FIELD ATT
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE		
TXA28D	12	-08	12,7	1/2	22,0	0.87	375	5440	1500	21760	178	7.0	0,72	0.48	T2000	T7000	6000 (L000)
TXA210D	16	-10	15,9	5/8	25,2	0.99	350	5100	1400	20400	200	8.0	0,87	0.58	T2000	T7000	6000 (L000)
TXA212D	19	-12	19,1	3/4	29,1	1.15	313	4530	1252	18120	240	9.5	1,11	0.75	T2000	T7000	6000 (L000)
TXA216D	25	-16	25,4	1	37,7	1.48	225	3250	900	13000	300	12.0	1,50	1.01	T2000	T7000	6000 (L000)

Contact RYCO for Crimp Diameter and Mark Length for BITELOK Couplings.

DF2A

DINFLEX
TWO WIRE BRAID
COMPACT HOSE

RECOMMENDED FOR:
High pressure hydraulic oil lines. DINFLEX Hose has the compact outside diameter of one wire braid hose, but exceeds the performance requirements of SAE 100R2 two wire braid hose. Additionally it has a smaller bend radius and higher flexibility than standard two wire braid hoses.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: AS 3791 100R2AT, EN 857 Type 2SC, ISO 1436, SAE 100R2AT, SAE 100R16.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame resistant & MSHA compliant. No skiving required with T2000 Series BITELOK Crimp Couplings.

MSHA - FLAME RESISTANCE:
AVENGER™ 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 water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP T2000 Series (sizes -04 to -16) pages 188 to 208.
Assembly Instructions page 498.

DF2A – DINFLEX NON-SKIVE HOSE															
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
DF24A	6	-04	6,3	1/4	13,4	0.53	420	6100	1680	24000	50	2.0	0,28	0.19	T2000
DF25A	8	-05	7,9	5/16	14,9	0.59	350	5100	1400	20400	56	2.2	0,41	0.27	T2000
DF26A	10	-06	9,5	3/8	17,3	0.68	350	5100	1400	20400	63	2.5	0,43	0.29	T2000
DF28A	12	-08	12,7	1/2	20,3	0.80	295	4250	1180	17000	88	3.5	0,51	0.34	T2000
DF210A	16	-10	15,9	5/8	23,6	0.93	250	3600	1000	14500	101	4.0	0,63	0.42	T2000
DF212A	19	-12	19,1	3/4	27,6	1.09	215	3100	860	12400	120	4.7	0,81	0.55	T2000
DF216A	25	-16	25,4	1	35,5	1.40	167	2400	668	9700	152	6.0	1,10	0.74	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

TJ2D

ABRASION RESISTANT
FRAS
JACK HOSE

RECOMMENDED FOR:
Hydraulic Jack applications requiring a light weight, small outside diameter hose. The very high abrasion resistant properties of the DIEHARD cover extend the life of the hose when it is subjected to the abrasion that may cause the premature failure of standard hoses.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: Materials Handling Institute specification IJ 100 (July 1979) for hydraulic hose and assemblies used with jacking systems.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 Series BITELOK Crimp Couplings.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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 +49°C (-40°F to +120°F).
For water, emulsions etc. see page 57.

WORKING PRESSURE:
Specification IJ 100 (July 1979) is based on 2:1 minimum burst to maximum working pressure safety factor. RYCO TJ2D Series hose has a 2.5:1 safety factor and is suitable for 700 bar/10,000 psi use in hydraulic jack applications ONLY.

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 & -06) pages 188 to 208.

TJ2D – DIEHARD JACK HOSE															
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
TJ24D	6	-04	6,3	1/4	14.9	0.59	700	10000	1750	25000	100	3.9	0.35	0.24	T2000
TJ26D	10	-06	9,5	3/8	18.9	0.74	700	10000	1750	25000	127	5.0	0.51	0.34	T2000

NOTE: Ensure rated Working Pressure of chosen End Style meets or exceeds the 700 bar/10,000 psi Maximum Working Pressure of TJ2D hose.
For hydraulic jack applications, RYCO recommends the use of 3/8" NPTF Male Extended Couplings.
TJ24D: Part No. T209E-0406 BITELOK One-Piece Crimp. Use of RYCO 750 Spring Guards at each end of the hose assembly is also recommended.
TJ26D: Part No. T209E-0606 BITELOK One-Piece Crimp. Use of a Bend Restrictor device at each end of the hose assembly is also recommended.
Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

JACK HOSE ASSEMBLIES

For ease of ordering, Hose Assemblies can be specified using TJ24 and TJ26 numbers below, followed by overall length in millimetres.

For example, to order a TJ24D Hose Assembly, 1800 mm overall length, with 3/8" NPTF male one end and male Screw-On coupling other end, with Spring Guards at each end; simply order TJ2402-1800.

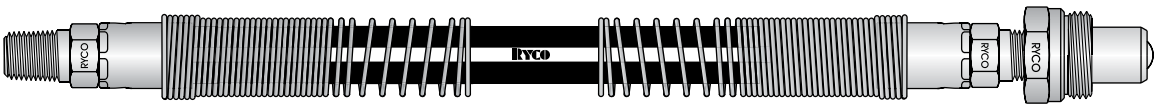
Standard lengths are 1000 mm, 2000 mm and 3000 mm. Other lengths are available.

JACK HOSE ASSEMBLIES (HOSE ENDS INCLUDE RYCO 750 SPRING GUARD)**

HOSE ASSEMBLY No.	HOSE END 1	HOSE END 2
TJ2401-xxxx* TJ2601-xxxx*	3/8" NPTF Male	3/8" NPTF Male
TJ2402-xxxx* TJ2602-xxxx*	3/8" NPTF Male	R100-06M Male Tip
TJ2403-xxxx* TJ2603-xxxx*	3/8" NPTF Male	R100-06M Male Tip and R100-06DC Dust Cap
TJ2404-xxxx* TJ2604-xxxx*	3/8" NPTF Male	R100-06FM Male and Female Coupling
TJ2405-xxxx* TJ2605-xxxx*	3/8" NPTF Male	R100-06FMPC Male and Female Coupling with Dust Cap and Dust Plug

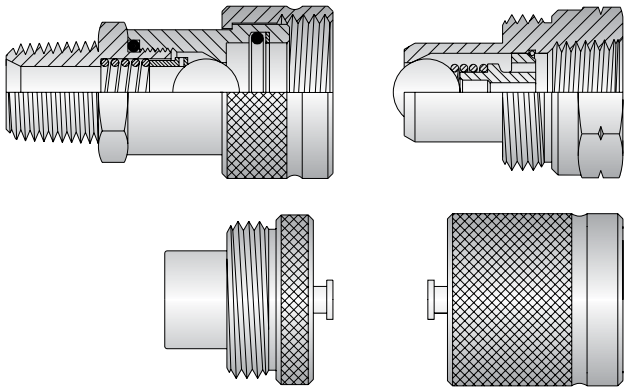
* Substitute xxxx for overall length (mm)

** RYCO 750 Spring Guard is only available to suit TJ24D hose assemblies.



TJ2402 shown

R100 SERIES QUICK RELEASE COUPLINGS, 700 BAR/10,000 PSI, THREAD-TO-CONNECT.



- Designed for use in heavy duty applications on portable cylinders, rams and pumps, where low flow rates and pressures up to 700 bar/10,000 psi are involved.
- Threaded sleeve on female body engages thread on male tip. When the sleeve is screwed completely up, the two coupling halves are secured together. Can connect and disconnect with pressure in line.
- Precision ball type check valves.
- Threaded dust caps and plugs complete with captive chain are available.
- Female body is NPTF male threaded to screw directly into the cylinder or ram.
- Male tip is NPTF female threaded to screw onto hose coupling.

NOMINAL SIZE	NPTF THREAD	MAXIMUM WORKING PRESSURE		FEMALE BODY	MALE TIP	COMPLETE COUPLING	DUST PLUG FOR MALE	DUST PLUG FOR FEMALE
inch	inch	bar	psi	PART NO				
1/4	1/4	700	10000	**R100-04F**	**R100-04M**	**R100-04FM**	**R100-06DP**	**R100-06DC**
3/8	3/8	700	10000	**R100-06F**	**R100-06M**	**R100-06FM**	**R100-06DP**	**R100-06DC**

See page [XX] for further information on RYCO R100 Series Couplings.

E2
ENERGY HOSE

RECOMMENDED FOR:
High pressure hydraulic oil lines.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: EN853 2SN, SAE 100R2AT, SAE 100R2S.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
Black, oil resistant synthetic rubber. No skiving required with T2000 &T7000 Series BITELOK Crimp Couplings and L000 Series Field Attachable Couplings.

TEMPERATURE RANGE:
From -40˚C to +100˚C (-40˚F to +212˚F).
For water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -16) pages 188 to 208.
T7000 Series (sizes -06 to -16) pages 217 to 233.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
6000 Series insert (sizes -04 to -16) pages 276 to 290.
L000 Series ferrule (sizes -04 to -16) page 276.
Assembly Instructions page 496.

E2 – ENERGY HOSE																	
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
															ONE PIECE		FIELD ATT
Hose	**DN**	**Dash**	**mm**	**inch**	**mm**	**inch**	**bar**	**psi**	**bar**	**psi**	**mm**	**inch**	**kg/m**	**lb/ft**	**NON-SKIVE**		
E24	6	-04	6,3	1/4	14,9	0.59	420	6100	1680	24400	100	3.9	0,35	0.24	T2000		6000 (L000)
E25	8	-05	7,9	5/16	16,5	0.65	350	5100	1400	20400	114	4.5	0,42	0.28	T2000		
E26	10	-06	9,5	3/8	18,9	0.74	350	5100	1400	20400	127	5.0	0,51	0.34	T2000	T7000	6000 (L000)
E28	12	-08	12,7	1/2	21,9	0.86	350	5100	1400	20400	178	7.0	0,65	0.44	T2000	T7000	6000 (L000)
E210	16	-10	15,9	5/8	25,1	0.99	250	3625	1000	14500	200	7.9	0,75	0.50	T2000	T7000	6000 (L000)
E212	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)
E216	25	-16	25,4	1	37,5	1.48	175	2500	700	10000	300	11.8	1,30	0.87	T2000	T7000	6000 (L000)

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H12A

VERY HIGH PRESSURE MULTI-SPIRAL HOSE

RECOMMENDED FOR:
Very high pressure hydraulic oil lines. The extra high working pressures and excellent impulse life when tested to SAE 100R12 test conditions result in, increased service life and minimise equipment downtime.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: AS 3791 100R12, EN 856 Type R12, EN 856 Type 4SP (-12 and above), ISO 3862 Type R12, SAE 100R12.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four alternating layers of spiralled high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame resistant & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 Series BITELOK Crimp Couplings.

MSHA - FLAME RESISTANCE:
AVENGER™ 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 +121°C (-40°F to +250°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 498.

H12A – AVENGER SPIRAL HOSE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE													
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H1206A	10	-06	9,5	3/8	19,3	0.76	350	5100	1400	20400	127	5.0	0,61	0.41	T7000
H1208A	12	-08	12,7	1/2	22,7	0.89	350	5100	1400	20400	178	7.0	0,78	0.52	T7000
H1210A	16	-10	15,9	5/8	26,2	1.03	350	5100	1400	20400	200	7.9	0,98	0.66	T7000
H1212A	19	-12	19,1	3/4	30,0	1.18	350	5100	1400	20400	240	9.5	1,21	0.81	T7000
H1216A	25	-16	25,4	1	37,4	1.47	350	5100	1400	20400	300	11.8	1,84	1.24	T7000
H1220A	31	-20	31,8	1.1/4	45,7	1.80	275	4000	1100	16000	400	15.8	2,34	1.57	T7000
H1224A	38	-24	38,1	1.1/2	53,0	2.09	255	3700	1020	14800	500	19.7	3,04	2.04	T7000
H1232A	51	-32	50,8	2	66,0	2.60	210	3050	840	12400	600	23.6	4,23	2.84	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H12D

EXTRA ABRASION RESISTANT
VERY HIGH PRESSURE
FRAS
MULTI-SPIRAL HOSE

RECOMMENDED FOR:
Very high pressure hydraulic oil lines, in applications where the outside cover of the hose is subject to abrasion that may cause premature failure of standard hoses.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: AS 3791 100R12, EN 856 Type R12, EN 856 Type 4SP (-12 and above), ISO 3862 Type R12, SAE 100R12.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four alternating layers of spiralled high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 Series BITELOK Crimp Couplings.

FEATURES:
The very high abrasion resistant properties of the cover, combined with the extra high working pressures and excellent impulse life, when tested to SAE 100R12 test conditions, result in increased service life and minimise equipment downtime.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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 +121°C (-40°F to +250°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -40) pages 217 to 233.
Assembly Instructions page 498.

H12D – DIEHARD SPIRAL HOSE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE													
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H1206D	10	-06	9,5	3/8	19,3	0.76	350	5100	1400	20400	127	5.0	0,61	0.41	T7000
H1208D	12	-08	12,7	1/2	22,7	0.89	350	5100	1400	20400	178	7.0	0,78	0.52	T7000
H1210D	16	-10	15,9	5/8	26,2	1.03	350	5100	1400	20400	200	7.9	0,98	0.66	T7000
H1212D	19	-12	19,1	3/4	30,0	1.18	350	5100	1400	20400	240	9.5	1,21	0.81	T7000
H1216D	25	-16	25,4	1	37,4	1.47	350	5100	1400	20400	300	11.8	1,84	1.24	T7000
H1220D	31	-20	31,8	1.1/4	45,7	1.80	275	4000	1100	16000	400	15.8	2,34	1.57	T7000
H1224D	38	-24	38,1	1.1/2	53,0	2.09	255	3700	1020	14800	500	19.7	3,04	2.04	T7000
H1232D	51	-32	50,8	2	66,0	2.60	210	3050	840	12400	600	23.6	4,23	2.84	T7000
H1240D	63	-40	63,5	2.1/2	82,6	3.25	140	2000	560	8000	650	25.6	5,20	3.49	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

H12S

EXTREMELY ABRASION RESISTANT VERY HIGH PRESSURE MULTI-SPIRAL HOSE

RECOMMENDED FOR:
Very high pressure hydraulic oil lines, in applications where the outside cover of the hose is subject to sliding abrasion that may cause premature failure of standard hoses.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of: AS 3791 100R12, EN 856 Type R12, EN 856 Type 4SP (-12 and above), ISO 3862 Type R12, SAE 100R12.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four alternating layers of spiralled high tensile steel wire.

COVER:
SLIDER™ Black, oil and extremely abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame Resistant, MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 Series BITELOK Crimp Couplings.

FEATURES:
The extremely high abrasion resistant properties of the polyethylene sheathed cover, combined with the extra high working pressures and excellent impulse life, when tested to SAE 100R12 test conditions, result in increased service life and minimise equipment downtime.

MSHA - FLAME RESISTANCE:
SLIDER™ complies with Flame Resistant requirements of Australian Standard AS 2660 and Methods 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 +121°C (-40°F to +250°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 498.

H12S – SLIDER SPIRAL HOSE		NOMINAL HOSE ID	NOMINAL HOSE OD	MAXIMUM WORKING PRESSURE	MINIMUM BURST PRESSURE	MINIMUM BEND RADIUS	AVERAGE WEIGHT	COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE							
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H1206S	10	-06	9,5	3/8	19,3	0.76	350	5100	1400	20400	127	5.0	0,61	0.41	T7000
H1208S	12	-08	12,7	1/2	22,7	0.89	350	5100	1400	20400	178	7.0	0,78	0.52	T7000
H1210S	16	-10	15,9	5/8	26,2	1.03	350	5100	1400	20400	200	7.9	0,98	0.66	T7000
H1212S	19	-12	19,1	3/4	30,0	1.18	350	5100	1400	20400	240	9.5	1,21	0.81	T7000
H1216S	25	-16	25,4	1	37,4	1.47	350	5100	1400	20400	300	11.8	1,84	1.24	T7000
H1220S	31	-20	31,8	1.1/4	45,7	1.80	275	4000	1100	16000	400	15.8	2,34	1.57	T7000
H1224S	38	-24	38,1	1.1/2	53,0	2.09	255	3700	1020	14800	500	19.7	3,04	2.04	T7000
H1232S	51	-32	50,8	2	66,0	2.60	210	3050	840	12400	600	23.6	4,23	2.84	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

R4SHA

EXTRA HIGH PRESSURE FOUR SPIRAL HOSE

RECOMMENDED FOR:
Extra high pressure hydraulic oil lines.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
EN 856 Type 4SH, ISO 3862 Type 4SH.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four alternating layers of spiralled high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame resistant & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 & T9000 Series BITELOK Crimp Couplings.

MSHA - FLAME RESISTANCE:
AVENGER™ 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 water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (-20 to -32) pages 217 to 233.
T9000 Series (-12 to -16) pages 234 to 240.
Assembly Instructions page 498.

R4SHA – AVENGER SPIRAL HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
R4SH12A	19	-12	19,1	3/4	31,8	1.25	420	6100	1680	24400	280	11.0	1,47	0.99		T9000
R4SH16A	25	-16	25,4	1	37,9	1.49	380	5500	1520	22000	340	13.4	1,97	1.32		T9000
R4SH20A	31	-20	31,8	1.1/4	44,4	1.75	350	5100	1400	20400	460	18.1	2,44	1.64	T7000	
R4SH24A	38	-24	38,1	1.1/2	52,4	2.06	300	4350	1200	17400	560	22.1	3,13	2.10	T7000	
R4SH32A	51	-32	50,8	2	66,8	2.63	250	3625	1000	14500	700	27.6	4,51	3.03	T7000	

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

R4SHD

EXTRA HIGH PRESSURE FOUR SPIRAL HOSE

RECOMMENDED FOR:
Extra high pressure hydraulic oil lines.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
EN 856 Type 4SH, ISO 3862 Type 4SH.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four alternating layers of spiralled high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T7000 & T9000 Series BITELOK Crimp Couplings.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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 water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (-20 to -32) pages 217 to 233.
T9000 Series (-12 to -16) pages 234 to 240.
Assembly Instructions page 498.

R4SHD – DIEHARD SPIRAL HOSE																
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
R4SH12D	19	-12	19,1	3/4	31,8	1.25	420	6100	1680	24400	280	11.0	1,47	0.99		T9000
R4SH16D	25	-16	25,4	1	37,9	1.49	380	5500	1520	22000	340	13.4	1,97	1.32		T9000
R4SH20D	31	-20	31,8	1.1/4	44,4	1.75	350	5100	1400	20400	460	18.1	2,44	1.64	T7000	
R4SH24D	38	-24	38,1	1.1/2	52,4	2.06	300	4350	1200	17400	560	22.1	3,13	2.10	T7000	
R4SH32D	51	-32	50,8	2	66,8	2.63	250	3625	1000	14500	700	27.6	4,51	3.03	T7000	

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

R4SPA

EXTRA HIGH PRESSURE FOUR SPIRAL HOSE

RECOMMENDED FOR:
Extra high pressure hydraulic oil lines.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
EN 856 Type 4SP, ISO 3862 Type 4SP.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four alternating layers of spiralled high tensile steel wire.

COVER:
AVENGER™ Black, oil and abrasion resistant synthetic rubber. Flame resistant & MSHA compliant. Highly visible layline branding for easy and permanent identification. Skiving required with T7000 Series BITELOK Crimp Couplings.

MSHA - FLAME RESISTANCE:
AVENGER™ 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 water, emulsions etc. see page 57.

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:
BITELOK SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 499.

R4SPA – AVENGER SPIRAL HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	SKIVE
R4SP06A	10	-06	9,5	3/8	20,9	0.82	445	6450	1780	25800	180	7.1	0,71	0.48	T7000
R4SP08A	12	-08	12,7	1/2	24,3	0.96	420	6100	1680	24400	230	9.1	0,86	0.58	T7000
R4SP10A	16	-10	15,9	5/8	27,8	1.09	380	5500	1520	22000	250	9.9	1,10	0.74	T7000
R4SP12A	19	-12	19,1	3/4	31,8	1.25	380	5500	1520	22000	300	11.8	1,47	0.99	T7000
R4SP16A	25	-16	25,4	1	38,6	1.52	350	5100	1400	20400	340	13.4	1,95	1.31	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

R4SPD

EXTRA HIGH PRESSURE FOUR SPIRAL HOSE

RECOMMENDED FOR:
Extra high pressure hydraulic oil lines.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
EN 856 Type 4SP, ISO 3862 Type 4SP.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Four alternating layers of spiralled high tensile steel wire.

COVER:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. Skiving required with T7000 Series BITELOK Crimp Couplings.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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 water, emulsions etc. see page 57.

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:
BITELOK SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -06 to -16) pages 217 to 233.
Assembly Instructions page 499.

R4SPD – DIEHARD SPIRAL HOSE															
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	SKIVE
R4SP06D	10	-06	9,5	3/8	20,9	0.82	445	6450	1780	25800	180	7.1	0,71	0.48	T7000
R4SP08D	12	-08	12,7	1/2	24,3	0.96	420	6100	1680	24400	230	9.1	0,86	0.58	T7000
R4SP10D	16	-10	15,9	5/8	27,8	1.09	380	5500	1520	22000	250	9.9	1,10	0.74	T7000
R4SP12D	19	-12	19,1	3/4	31,8	1.25	380	5500	1520	22000	300	11.8	1,47	0.99	T7000
R4SP16D	25	-16	25,4	1	38,6	1.52	350	5100	1400	20400	340	13.4	1,95	1.31	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

T5
POLYESTER BRAID COVER HOSE

RECOMMENDED FOR:
Medium to high pressure hydraulic oil applications. The small bend radius, temperature resistance and light weight of RYCO T5 hose make it suitable for under the bonnet automotive/trucking applications including hydraulic oil, diesel fuel, lubrication oil and transmission oil coolers. Sizes T54 to T512 also comply with SAE J1402 Type AII "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". T5 may be used with compressed air if maximum working pressure is reduced by 30%. T5 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. T5 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 145 for more information.

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

TUBE:
Black, oil resistant synthetic rubber.

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

COVER:
Black 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 +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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

THIRD PARTY APPROVALS:
USCG - Hydraulic Systems, DoT

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T4000 Series (sizes -04 to -20) pages 209 to 216.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
V000 Series (sizes -04 to -32) pages 262 to 275.
Assembly Instructions page 496.

T5 – TRUCKER POLYESTER COVER HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND R SAE100R5		MINIMUM BEND R SAEJ1402		VACUUM RATING		AVERAGE WEIGHT		COUPLING SERIES	
PART NO	HOSE SIZE																		ONE PC	FIELD
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mm	inch	inHg	mmHg	kg/m	lb/ft	NON- SKIVE	
T54	5	-04	4,8	3/16	13,2	0.52	210	3050	840	12200	75	3.0	51	2.0	710	28	0,23	0.15	T4000	V000
T55	6	-05	6,4	1/4	14,8	0.58	210	3050	840	12200	85	3.3	64	2.5	710	28	0,26	0.17	T4000	V000
T56	8	-06	7,9	5/16	17,2	0.68	155	2250	620	9000	100	4.0	76	3.0	710	28	0,30	0.20	T4000	V000
T58	10	-08	10,3	13/32	19,4	0.76	138	2000	552	8000	117	4.6	89	3.5	710	28	0,36	0.24	T4000	V000
T510	12	-10	12,7	1/2	23,4	0.92	121	1750	484	7000	140	5.5	102	4.0	710	28	0,53	0.36	T4000	V000
T512	16	-12	15,9	5/8	27,4	1.08	103	1500	414	6000	165	6.5	114	4.5	710	28	0,65	0.44	T4000	V000
T516	22	-16	22,2	7/8	31,4	1.24	55	800	221	3200	187	7.4			510	20	0,63	0.42	T4000	V000
T520	28	-20	31,0	1.1/8	38,1	1.50	43	625	172	2500	229	9.0			510	20	0,90	0.60	T4000	V000
T524	35	-24	32,0	1.3/8	44,5	1.75	35	500	140	2000	267	10.5			380	15	1,00	0.67		V000
T532	46	-32	45,0	1.13/16	56,3	2.22	24	350	98	1400	337	13.3			280	11	1,48	0.99		V000

*__IMPORTANT NOTE:__ MAXIMUM WORKING PRESSURE and MINIMUM BURST PRESSURE shown above relate to SAE 100R5 specification and hose used in non Air Brake applications. For Air Brake applications, SAE J1402 Type AII 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 below. T54 to T512 comply with SAE J1402 Minimum Bend Radius at SAE J1402 pressures, and SAE 100R5 Minimum Bend Radius at SAE 100R5 working pressures.
Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

D2B

DRILLER
HIGH TEMPERATURE
DRILL RIG HOSE

RECOMMENDED FOR:
Hydraulic oil or air lines. Drill rigs - high pressure, large bore air hose.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
Perforated blue, oil and abrasion resistant synthetic rubber. No skiving required with T7000 Series BITELOK Crimp Couplings.

FEATURES:
Flame resistant cover. Smaller bend radius.

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:
Air: -40°C to + 121°C (-40°F to +250°F)
Oil: -40°C to + 135C (-40°F to +275°F)
For water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T7000 Series (sizes -24 to -32) pages 217 to 233.
Assembly Instructions page 498.

D2B – DRILLER HOSE		NOMINAL HOSE ID	NOMINAL HOSE OD	MAXIMUM WORKING PRESSURE	MINIMUM BURST PRESSURE	MINIMUM BEND RADIUS	AVERAGE WEIGHT	COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE							

Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
D224B	38	-24	38,1	1.1/2	48,0	1.89	100	1450	400	5800	250	10	1,49	1.00	T7000
D232B	51	-32	50,8	2	62,0	2.44	90	1300	360	5200	300	12	2,24	1.50	T7000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

MS1000
MINESPRAY

RECOMMENDED FOR:
Water and air spray suited for dust control in all industrial and mining applications.

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 & T4000 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 water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -12 to -32) pages 188 to 208.
T4000 Series (sizes -20 to -32) pages 209 to 216.
Assembly Instructions page 498.

CS1000 – MINESPRAY HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
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	25,8	1.02	70	1000	280	4000	120	4.7	0,40	0.27	T2000	
MS1016	25	-16	25,4	1	32,5	1.28	70	1000	280	4000	150	5.9	0,62	0.42	T2000	
MS1020	31	-20	31,8	1.1/4	39,5	1.56	70	1000	280	4000	210	8.3	0,75	0.50	T2000	T4000
MS1024	38	-24	38,1	1.1/2	46,0	1.81	70	1000	280	4000	250	9.9	1,00	0.67	T2000	T4000
MS1032	51	-32	50,8	2	59,1	2.33	70	1000	280	4000	300	11.8	1,42	0.95	T2000	T4000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

CS1000
COALSPRAY

RECOMMENDED FOR:
Water and air spray suited for dust control in all industrial and mining applications.

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 & T4000 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 water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -12 to -32) pages 188 to 208.
T4000 Series (sizes -20 to -32) pages 209 to 216.
Assembly Instructions page 498.

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 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	25,8	1.02	70	1000	280	4000	120	4.7	0,40	0.27	T2000	
CS1016	25	-16	25,4	1	32,5	1.28	70	1000	280	4000	150	5.9	0,62	0.42	T2000	
CS1020	31	-20	31,8	1.1/4	39,5	1.56	70	1000	280	4000	210	8.3	0,75	0.50	T2000	T4000
CS1024	38	-24	38,1	1.1/2	46,0	1.81	70	1000	280	4000	250	9.9	1,00	0.67	T2000	T4000
CS1032	51	-32	50,8	2	59,1	2.33	70	1000	280	4000	300	11.8	1,42	0.95	T2000	T4000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

BT1
ONE WIRE BRAID HOSE

RECOMMENDED FOR:
Transportation, marine fuel and engine hose applications. Low pressure hydraulic oil return lines, general purpose water, glycol antifreeze solutions, biodiesel, diesel fuel, ethanol, gasoline/petrol or air.

PERFORMANCE:
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.

TUBE:
Black, oil resistant synthetic rubber.

REINFORCEMENT:
One braid of high tensile steel wire.

COVER:
Blue, oil resistant and abrasion resistant synthetic rubber.

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.

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

TEMPERATURE RANGE:

MEDIA	TEMP °C MIN	MAX
Petroleum based hydraulic fluids	-40	+135
Water, water/oil emulsion and water/glycol hydraulic fluids	—	80
Engine oil, lubricating oils	-40	121
Air	—	121
Diesel, JP8	-20	100
Biodiesel	-40	100
Gasoline/petrol	-20	80
Ethanol blends (15% max.ethanol)	-20	80

THIRD PARTY APPROVALS:
ABS, DNV, GL, LR, MED and USCG.

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -16) pages 188 to 208.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
6000 Series insert (sizes -04 to -16) pages 276 to 290.
K000 Series ferrule (sizes -04 to -16) page 276.
Assembly Instructions page 496.

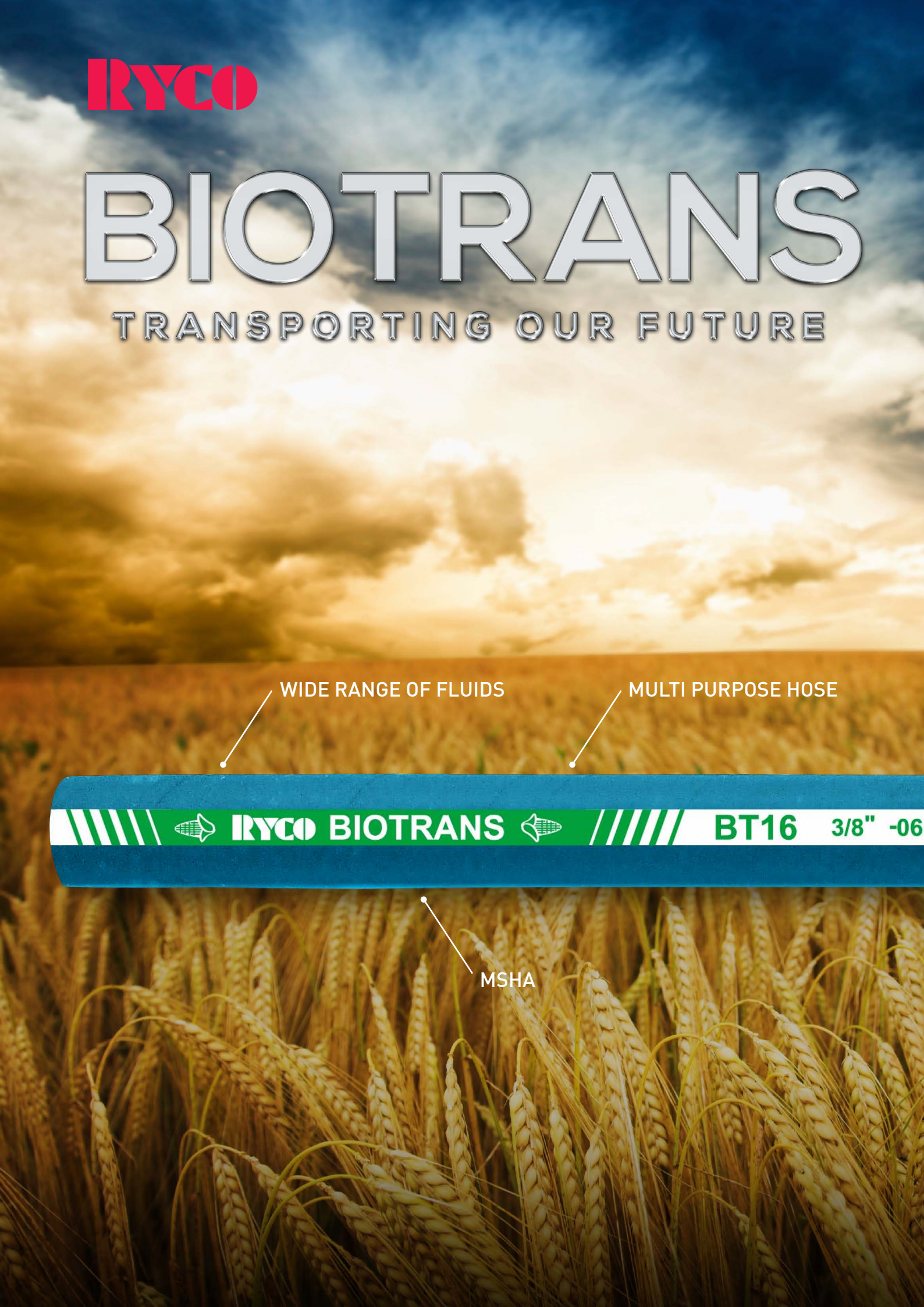
BT1 – BIOTRANS HOSE																
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PC	FIELD ATT
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
BT14	6	-04	6,3	1/4	13,3	0.52	50	725	200	2900	25	1.0	0,22	0.15	T2000	6000 (K000)
BT15	8	-05	7,9	5/16	14,9	0.59	50	725	200	2900	30	1.2	0,25	0.17	T2000	
BT16	10	-06	9,5	3/8	17,3	0.68	50	725	200	2900	35	1.4	0,31	0.21	T2000	6000 (K000)
BT18	12	-08	12,7	1/2	20,3	0.80	50	725	200	2900	55	2.2	0,39	0.26	T2000	6000 (K000)
BT110	16	-10	15,9	5/8	23,6	0.93	50	725	200	2900	70	2.8	0,49	0.33	T2000	6000 (K000)
BT112	19	-12	19,1	3/4	27,6	1.09	50	725	200	2900	82	3.2	0,62	0.41	T2000	6000 (K000)
BT116	25	-16	25,4	1	35,5	1.40	50	725	200	2900	105	4.1	0,90	0.60	T2000	6000 (K000)

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

RYCO

BIOTRANS

TRANSPORTING OUR FUTURE



RQP1

HIGH TEMPERATURE MULTI FLUID ONE WIRE BRAID HOSE

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 & 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 & 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).
For water, water/oil emulsions, diesel fuels, glycol, air, and some phosphate esters** see page 57.

**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.

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -16) pages 188 to 208.
T7000 Series (sizes -06 to -16) pages 217 to 233.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE*
6000 Series insert (sizes -04 to -16) pages 276 to 290.
K000 Series ferrule (sizes -04 to -16) page 276.
Assembly Instructions page 496.

RQP1 – SURVIVOR NON-SKIVE HOSE																	
			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
PART NO	HOSE SIZE														ONE PIECE		FIELD ATT
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. Contact RYCO for more information.
Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

RQP2

HIGH TEMPERATURE MULTI FLUID TWO WIRE BRAID HOSE

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 & 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 & 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 & Method of Test AS 1180.10B.

TEMPERATURE RANGE:
From -40°C to +150°C (-40°F to +302°F).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -04 to -32) pages 188 to 208.
T7000 Series (sizes -06 to -32) pages 217 to 233.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE*
6000 Series insert (sizes -04 to -20) pages 276 to 290.
L000 Series ferrule (sizes -04 to -20) page 276.
Assembly Instructions page 496.

RQP2 – SURVIVOR NON-SKIVE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
PART NO	HOSE SIZE														ONE PIECE		FIELD ATT
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE		
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 Hydraulics 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. Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

RQP5

HIGH TEMPERATURE POLYESTER BRAID COVER ONE WIRE HOSE

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 AII "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 263 for Branding Information.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
AS 3791 100R5, SAE 100R5, SAE J1402 Type AII (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).
For water, emulsions etc. see page 57.

**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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T4000 Series (Sizes -04 to -20) pages 209 to 216.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
V000 Series (sizes -04 to -32) pages 262 to 275.
Assembly Instructions page 496.

RQP5 – SURVIVOR POLYESTER COVER HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND R SAE100R5		MINIMUM BEND R SAEJ1402		VACUUM RATING		AVERAGE WEIGHT		COUPLING SERIES	
PART NO	HOSE SIZE																		ONE PC	FIELD
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 specification and hose used in non Air Brake applications. For Air Brake applications, SAE J1402 Type AII 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 below. 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.
Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

RQP6

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 & 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).
For water, emulsions etc. see page 57.

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.

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T4000 Series (Sizes -04 to -12) pages 209 to 216.
Assembly Instructions page 498.

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 clamp as this will damage hose.
Factory crimped couplings are also available in some sizes.

RQP6 – SURVIVOR HIGH TEMPERATURE PUSH ON HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		COUPLING SERIES	
PART NO	HOSE SIZE																ONE PC	PUSH ON
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

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

TW1
TORNADO WASHER
ONE WIRE BRAID

RECOMMENDED FOR:
Hot Water Pressure Washer Machines.

TUBE:
Black, oil resistant synthetic rubber. Heat, cleaning chemicals and detergent resistant.

REINFORCEMENT:
One braid of high tensile steel wire.

COVER:
Grey synthetic rubber; oil, chicken fat and abrasion resistant. The cover of TW1 Hose is formulated to resist marking. No skiving required with T2000 Series BITELOK Crimp Couplings.

TEMPERATURE RANGE:
TW1 TORNADO WASHER Hose handles hot water up to +155°C (+310°F).
For water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 Series (sizes -06 to -08) pages 188 to 208.
Assembly Instructions page 498.

Common hose couplings used on TW1 Hose include:
T2020S BSPP Female Live Swivel
T2940 PW Female
T2950 PW Gun Handle Tube.

TW1 – TORNADO 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 ONE PIECE
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
TW16	10	-06	9,5	3/8	17,4	0.69	210	3050	840	12200	60	2.4	0,34	0.23	T2000
TW18	12	-08	12,7	1/2	20,6	0.81	210	3050	840	12200	90	3.5	0,45	0.30	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

PW2

PRESSURE WASHER
TWO WIRE BRAID

RECOMMENDED FOR:
Hot Water Pressure Washer Machines.

TUBE:
Black, heat resistant synthetic rubber.

REINFORCEMENT:
Two braids of high tensile steel wire.

COVER:
Black, oil resistant and abrasion resistant synthetic rubber.
The cover of PW2 hose is formulated to resist marking.
No skiving required with T2000 Series BITELOK Crimp Couplings.

TEMPERATURE RANGE:
PW2 PRESSURE WASHER Hose handles hot water up to +150°C (+302°F).
For water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T2000 series (sizes -04 to -06) pages 188 to 208.
Assembly Instructions page 498.

Common hose couplings used on PW2 Hose include:
T2020S BSPP Female Live Swivel
T2940 PW Female
T2950 PW Gun Handle Tube.
(Note: The rated Maximum Working Pressures of **T2020S Series** couplings are lower than the Maximum Working Pressures of **PW2 Series** hoses.)

PW2 – PRESSURE WASHER HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
PW24	6	-04	6,4	1/4	15,0	0.59	400	5800	1600	23200	100	4.0	0,39	0.26	T2000
PW25	8	-05	7,9	5/16	16,6	0.65	400	5800	1600	23200	114	4.5	0,46	0.31	T2000
PW26	10	-06	9,5	3/8	19,0	0.75	400	5800	1600	23200	130	5.0	0,56	0.38	T2000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

SR
SUCTION & RETURN HOSE

RECOMMENDED FOR:
Petroleum and water base 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.

TEMPERATURE RANGE:
From -40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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).

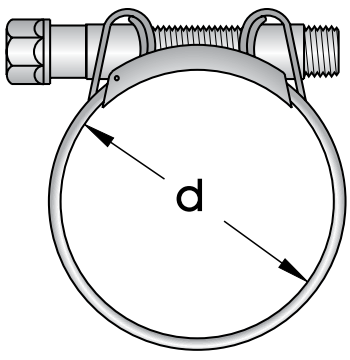
33000 SERIES COUPLINGS WITH RSC CLAMP
33000 Series (sizes -12 to -48) pages 258 to 261.
33000 Series Couplings require a suitable clamp around the outside of the hose. Refer to RYCO RSC Clamps shown below. Assembly instructions page 501.

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) pages 209 to 216.
Assembly Instructions page 498.

SR – SUCTION AND RETURN HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT	
PART NO	HOSE SIZE															
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 & -32, use **RYCO SRF** Hose.
*Due to the manufacturing tolerance on 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
COMPACT
SUCTION & RETURN HOSE

RECOMMENDED FOR:
Petroleum and water base 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.

TEMPERATURE RANGE:
From -40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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).**

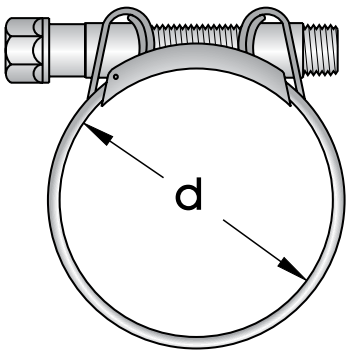
33000 SERIES COUPLINGS WITH RSC CLAMP
33000 Series (sizes -12 to -32) pages 258 to 261.
3300 Series Couplings require a suitable clamp around the outside of the hose. Refer to RYCO RSC Clamps shown below.
Assembly instructions page 501.

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 to -32) pages 209 to 216.
Assembly Instructions page 498.

SRF – DEFIANT COMPACT SUCTION AND RETURN HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT	
PART NO	HOSE SIZE															
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 & -32, use **RYCO SRF** Hose.
*Due to the manufacturing tolerance on outside diameter of the hose and the range of adjustment of the clamp, it is necessary to confirm correct clamp at time of assembly.

RTH1

STAINLESS STEEL BRAID TEFLON* HOSE

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).
For water, emulsions etc. see page 57.

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

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.

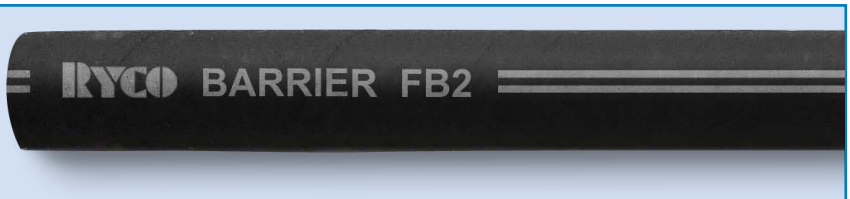
COUPLINGS:
ONE-PIECE CRIMP
TT000 Series (sizes -04 to -16) pages 241 to 243.
Assembly instructions page 500.

RTH1 – TEFLON* HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MAXIMUM WORKING PRESSURE SAE100R14		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE																
Hose	DN	Dash	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	TT000
RTH16	10	-06	9,5	3/8	11,7	0.46	165	2375	103	1500	660	9500	125	5.0	0,14	0.09	TT000
RTH18	12	-08	12,7	1/2	15,4	0.61	120	1750	55	800	485	7000	140	5.5	0,22	0.15	TT000
RTH110	16	-10	15,9	5/8	18,4	0.72	105	1500	55	800	420	6000	165	6.5	0,28	0.19	TT000
RTH112	19	-12	19,1	3/4	22,1	0.87	85	1250	55	800	345	5000	200	8.0	0,33	0.22	TT000
RTH116	25	-16	25,4	1	28,6	1.13	55	800	55	800	220	3200	300	12.0	0,46	0.31	TT000

* DuPont Registered TM
Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

FB2

BARRIER
TWO TEXTILE BRAID HOSE
NYLON BARRIER



RECOMMENDED FOR:
Automotive air conditioning systems and other refrigeration and air conditioning systems using refrigerants R12 and R134A. Also suitable for use with R22 and R114. The internal rubber layer assures coupling integrity and reduces the risk of refrigerant loss around the couplings, and the nylon barrier reduces the permeation of refrigerant, to protect the environment. FB2 is a reduced bore hose. It has a similar Inside Diameter to metal tubing of the same nominal size. For example, 5/8" (OD) tubing has an Inside Diameter of approximately 1/2". FB210 is also 1/2" Inside Diameter.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
SAE J2064 Type C Class II.

TUBE:
Black, synthetic rubber internal layer (polychloroprene) with Nylon Barrier.

REINFORCEMENT:
Two braids of synthetic yarn.

COVER:
Black, oil resistant and abrasion resistant synthetic rubber.
No skiving required with 1G000 Series Crimp Couplings.

TEMPERATURE RANGE:
From -30°C to +125°C (-22°F to +257°F).
For water, emulsions etc. see page 57.

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

COUPLINGS:
1G000 SERIES CRIMP COUPLINGS page 252 and 253.
Assembly instruction page 502.

1G000 Series Crimp Couplings consist of G00 Series Insert and 1G000 Series Crimp Ferrule.

Use only with 1G000 Series Crimp Ferrules.
Worm drive hose clamps must not be used with FB2 Hose.

FB2 – BARRIER AIR CONDITIONING HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES 1G000 CRIMP COUPLINGS	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	Insert	Ferrule
FB26	8	-06	7,9	5/16	19,0	0.75	35	500	140	2000	16	0.6	0,28	0.19	G000	1G000-06
FB28	10	-08	10,3	13/32	23,0	0.91	35	500	140	2000	25	1.0	0,42	0.28	G000	1G000-08
FB210	12	-10	12,7	1/2	25,4	1.00	35	500	140	2000	32	1.3	0,48	0.32	G000	1G000-10

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

M1

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).
For water, emulsions etc. see page 57.

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

M1 – FUEL LINE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		VACUUM RATING AT 20°C (68°F)	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	mmHg	inHg
M14	6	-04	6,4	1/4	12,7	0.50	3,5	50	14	200	75	3.0	0,14	0.09	610	24
M15	8	-05	7,9	5/16	14,3	0.56	3,5	50	14	200	75	3.0	0,17	0.11	610	24
M16	10	-06	9,5	3/8	15,9	0.63	3,5	50	14	200	100	4.0	0,18	0.12	610	24

MP1

MULTI PURPOSE
ONE TEXTILE BRAID HOSE

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 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 & 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%.
For water, emulsions etc. see page 57.

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) pages 209 to 216.
Assembly Instructions page 498.

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.

MP1 – MULTI PURPOSE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
MP14	6	-04	6,4	1/4	13,5	0.53	13,8	200	55,2	800	50	2.0	0,16	0.11	T4000
MP16	10	-06	9,5	3/8	17,5	0.69	13,8	200	55,2	800	70	3.0	0,24	0.16	T4000
MP18	12	-08	12,7	1/2	21,4	0.84	13,8	200	55,2	800	85	4.0	0,33	0.22	T4000
MP110	16	-10	15,9	5/8	25,4	1.00	13,8	200	55,2	800	105	5.0	0,43	0.29	T4000
MP112	19	-12	19,1	3/4	28,6	1.13	13,8	200	55,2	800	120	5.0	0,48	0.32	T4000
MP116	25	-16	25,4	1	37,3	1.47	13,8	200	55,2	800	155	8.0	0,82	0.55	T4000
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	T4000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

M2
TEXTILE
TWO TEXTILE BRAID HOSE

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).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T4000 Series (sizes -04 to -12) pages 209 to 216.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
6000 Series insert (sizes -04 to -12) pages 276 to 290.
M000 Series ferrule (sizes -04 to -12) page 276.
Assembly Instructions page 496.

M2 – TEXTILE BRAID																
			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES	
PART NO	HOSE SIZE														ONE PC	FIELD ATT
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
M24	6	-04	6,4	1/4	14,3	0.56	88	1250	350	5000	75	3.0	0,16	0.11	T4000	6000 (M000)
M26	10	-06	9,5	3/8	19,0	0.75	79	1125	315	4500	100	4.0	0,28	0.19	T4000	6000 (M000)
M28	12	-08	12,7	1/2	23,8	0.94	70	1000	280	4000	125	5.0	0,41	0.28	T4000	6000 (M000)
M212	19	-12	19,1	3/4	31,7	1.25	52	750	210	3000	240	9.5	0,65	0.44	T4000	6000 (M000)

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

M2G

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T4000 Series (sizes -04 to -12) pages 209 to 216.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
6000 Series insert (sizes -04 to -12) pages 276 to 290.
M000 Series ferrule (sizes -04 to -12) page 276.
Assembly Instructions page 496.

M2G – LPG HOSE																
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES	
															ONE PC	FIELD ATT
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
M24G	6	-04	6,4	1/4	14,3	0.56	2,6	375	10,4	1500	75	3.0	0,16	0.11	T4000	6000 (M000)
M26G	10	-06	9,5	3/8	19,0	0.75	2,6	375	10,4	1500	100	4.0	0,28	0.19	T4000	6000 (M000)
M28G	12	-08	12,7	1/2	23,8	0.94	2,6	375	10,4	1500	125	5.0	0,41	0.28	T4000	6000 (M000)
M212G	19	-12	19,1	3/4	31,7	1.25	2,6	375	10,4	1500	240	9.5	0,65	0.44	T4000	6000 (M000)

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

PL1

PUSH-ON HOSE
ONE TEXTILE BRAID HOSE

RECOMMENDED FOR:
Petroleum base 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).
For water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T4000 Series (Sizes -04 to -12) pages 209 to 216.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
8000 Series Push-On (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.

PL1 PUSH ON HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM STATIC WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		COUPLING SERIES	
PART NO	HOSE SIZE																ONE PC	FIELD
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft	NON-SKIVE	
PL14	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
PL15	8	-05	8,0	5/16	13,9	0.55	28	410	112	1640	75	3.0	710	28	0,14	0.09	T4000	8000
PL16	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
PL18	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
PL110	16	-10	16,0	5/8	22,6	0.89	24	350	96	1400	125	5.0	380	15	0,29	0.19	T4000	8000
PL112	19	-12	19,1	3/4	25,8	1.02	21	305	84	1220	150	6.0	380	15	0,34	0.23	T4000	8000

PL1D

EXTRA ABRASION RESISTANT FRAS ONE TEXTILE BRAID HOSE PUSH ON HOSE

RECOMMENDED FOR:
Petroleum base 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:
DIEHARD™ Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T4000 Series BITELOK Crimp Couplings.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
DIEHARD™ 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 water, emulsions etc. see page 57.

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:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T4000 Series (Sizes -04 to -12) pages 209 to 216.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
8000 Series Push-On (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.

PL1 D PUSH ON HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM STATIC WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT		COUPLING SERIES	
PART NO	HOSE SIZE																ONE PC	FIELD
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft	NON-SKIVE	
PL14D	6	-04	6,4	1/4	12,7	0.50	28	410	112	1640	75	3.0	710	28	0,12	0.08	T4000	8000
PL15D	8	-05	8,0	5/16	14,3	0.56	28	410	112	1640	75	3.0	710	28	0,15	0.10	T4000	8000
PL16D	10	-06	9,5	3/8	15,9	0.63	28	410	112	1640	75	3.0	635	25	0,17	0.11	T4000	8000
PL18D	12	-08	12,7	1/2	19,8	0.78	28	410	112	1640	125	5.0	460	18	0,23	0.15	T4000	8000
PL110D	16	-10	16,0	5/8	23,0	0.91	24	350	96	1400	150	6.0	380	15	0,29	0.19	T4000	8000
PL112D	19	-12	19,1	3/4	26,4	1.04	21	305	84	1220	175	6.9	380	15	0,36	0.24	T4000	8000

RYCO

SPIDERLINE

KINK FREE FLEXIBILITY

RYCO

ISOLATOR

HALT THE CHARGE

TP7N & TP7TN (SAE 100R7)

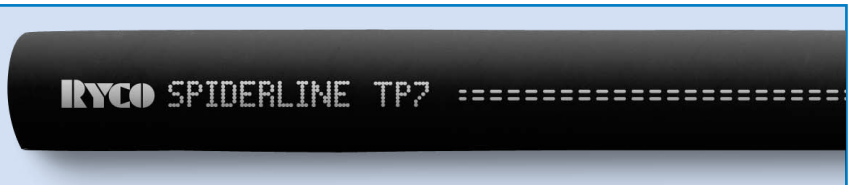
TP8N & TP8TN (SAE 100R8)

ELECTRICAL NON-CONDUCTIVITY

COMPACT OUTSIDE DIAMETER

REDUCE WEIGHT

TP7
SPIDERLINE R7 HOSE



RECOMMENDED FOR:
High pressure hydraulic oil lines; pilot lines; greasing and lubrication lines; and some pneumatic and water lines. Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Suitable for use with some gases, fluids and chemicals. Cover is perforated (pin-pricked) for use with air and gases.

RYCO SPIDERLINE hose is lighter weight, has a more compact outside diameter and is less than half the minimum bend radius of wire braided rubber hose. Smooth inner tube for high flow rate; and smooth, easily cleaned cover.

The synthetic and aramid fibre reinforcement gives SPIDERLINE hose excellent corrosion and fatigue resistance plus low elongation at maximum dynamic working pressure.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
AS 3791 100R7, EN 855 TYPE R7, ISO 3949, SAE 100R7.

TUBE:
White, oil resistant seamless thermoplastic (Polyester).

REINFORCEMENT:
One or two braids of synthetic fibre.

COVER:
Black, oil and abrasion resistant thermoplastic (Polyurethane). Cover is perforated (pin-pricked).

TEMPERATURE RANGE:
From -40°C to +100°C (-40°F to +212°F).
Air & Water +70 ˚C (+158 ˚F).
For water, emulsions etc. see page 57.

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

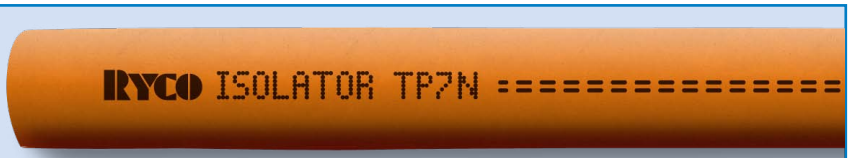
COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -03 to -16) pages 177 to 187.
T4000 Series (sizes -04 to -16) pages 209 to 216.
Assembly Instructions page 498.

TP7 – SPIDERLINE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
TP73	5	-03	5,0	3/16	9,6	0.38	210	3000	840	12000	25	1.0	0,06	0.04	T1000	
TP74	6	-04	6,5	1/4	12,2	0.48	210	3000	840	12000	35	1.4	0,10	0.07	T1000	T4000
TP75	8	-05	8,1	5/16	14,3	0.56	190	2700	760	10800	45	1.8	0,13	0.09	T1000	T4000
TP76	10	-06	9,7	3/8	16,0	0.63	160	2300	640	9200	55	2.2	0,15	0.10	T1000	T4000
TP78	12	-08	13,0	1/2	20,3	0.80	140	2000	560	8000	75	3.0	0,22	0.15	T1000	T4000
TP712	19	-12	19,5	3/4	27,1	1.07	90	1300	360	5200	140	5.5	0,34	0.23	T1000	T4000
TP716	25	-16	25,9	1	34,0	1.34	70	1000	280	4000	190	7.5	0,46	0.31	T1000	T4000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

TP7N

ISOLATOR
R7 NON CONDUCTIVE HOSE



RECOMMENDED FOR:
Hydraulic oil lines where electrical non-conductivity is required (for use in applications where there is potential for contact with high voltage sources). Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Heat and hydrolysis stabilised for use with water based hydraulic fluids up to +70°C (+158°F). Smooth inner tube for high flow rate; and smooth, easily cleaned cover. The high strength, non-metallic reinforcement gives these hoses excellent corrosion and fatigue resistance, and low elongation of ±2% at maximum dynamic working pressure.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
AS 3791 100R7, EN 855 TYPE R7, ISO 3949, SAE 100R7.

TUBE:
White, oil resistant seamless thermoplastic (Polyester).

REINFORCEMENT:
One or two braids of synthetic fibre.

COVER:
Orange, oil and abrasion resistant thermoplastic (Polyurethane). Cover is non-perforated.

FEATURES:
Meets non-conductivity requirements of SAE 100R7, AS 3791 100R7, EN 855 Type 7 (maximum leakage does not exceed 50 µA when subjected to 75 kV/305 mm or 250 kV/m for 5 minutes). Incorrect storage and use, particularly that leading to oil or moisture entering the reinforcement, may adversely affect electrical properties.

TEMPERATURE RANGE:
From -40°C to +100°C (-40°F to +212°F).
Air & Water +70 °C (+158 °F).
For water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -16) pages 177 to 187.
T4000 Series (sizes -04 to -16) pages 209 to 216.
Assembly Instructions page 498.

TP7N – ISOLATOR NON-CONDUCTIVE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
TP74N	6	-04	6,5	1/4	12,2	0.48	210	3000	840	12000	35	1.4	0,10	0.07	T1000	T4000
TP76N	10	-06	9,7	3/8	16,0	0.63	160	2300	640	9200	55	2.2	0,15	0.10	T1000	T4000
TP78N	12	-08	13,0	1/2	20,3	0.80	140	2000	560	8000	75	3.0	0,22	0.15	T1000	T4000
TP712N	19	-12	19,5	3/4	27,1	1.07	90	1300	360	5200	140	5.5	0,34	0.23	T1000	T4000
TP716N	25	-16	25,9	1	34,0	1.34	70	1000	280	4000	190	7.5	0,46	0.31	T1000	T4000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

TP7T
SPIDERLINE R7 TWIN HOSE

RECOMMENDED FOR:
RYCO TP7T SPIDERLINE TWIN Hose consists of two TP7 Series Hoses of the same size, permanently joined together in a flat compact form that can be easily reeled onto payout and return reels on forklifts and cranes. It is also used on dispensing equipment and other applications requiring two hoses.

High pressure hydraulic oil lines; pilot lines; greasing and lubrication lines; and some pneumatic and water lines. Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Suitable for use with some gases, fluids and chemicals. Cover is perforated (pin-pricked) for use with air and gases.

RYCO SPIDERLINE hose is lighter weight, has a more compact outside diameter and is less than half the minimum bend radius of wire braided rubber hose. Smooth inner tube for high flow rate; and smooth, easily cleaned cover.

The synthetic and aramid fibre reinforcement gives SPIDERLINE hose excellent corrosion and fatigue resistance plus low elongation at maximum dynamic working pressure.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
AS 3791 100R7, EN 855 TYPE R7, ISO 3949, SAE 100R7.

TUBE:
White, oil resistant seamless thermoplastic (Polyester).

REINFORCEMENT:
One or two braids of synthetic fibre.

COVER:
Black, oil and abrasion resistant thermoplastic (Polyurethane). Cover is perforated (pin-pricked).

TEMPERATURE RANGE:
From -40°C to +100°C (-40°F to +212°F).
Air & Water +70 ˚C (+158 ˚F).
For water, emulsions etc. see page 57.

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

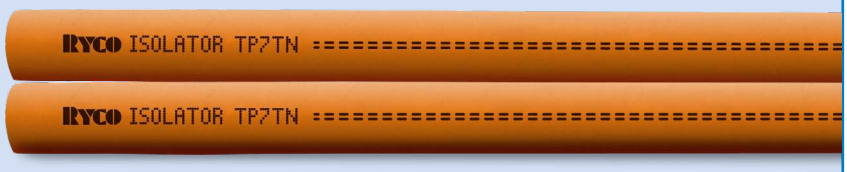
COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -08) pages 177 to 187.
T4000 Series (sizes -04 to -08) pages 209 to 216.
Assembly Instructions pages 498 and 505.

TP7T – SPIDERLINE TWIN HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
TP74T	6	-04	6,5	1/4	12,2	0.48	210	3000	840	12000	35	1.4	0,20	0.13	T1000	T4000
TP75T	8	-05	8,1	5/16	14,3	0.56	190	2700	760	10800	45	1.8	0,26	0.18	T1000	T4000
TP76T	10	-06	9,7	3/8	16,0	0.63	160	2300	640	9200	55	2.2	0,30	0.20	T1000	T4000
TP78T	12	-08	13,0	1/2	20,3	0.80	140	2000	560	8000	75	3.0	0,44	0.30	T1000	T4000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

TP7TN

ISOLATOR
R7 NON CONDUCTIVE
TWIN HOSE



RECOMMENDED FOR:
RYCO TP7TN ISOLATOR TWIN Hose consists of two TP7N Series Hoses of the same size, permanently joined together in a flat compact form that can be easily reeled onto payout and return reels on forklifts and cranes. It is also used for hydraulic powered hand tools, such as loppers and chain saws, and other applications requiring two hoses. TP7TN is used where electrical non-conductivity is required (for use in applications where there is potential for contact with high voltage sources). Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Heat and hydrolysis stabilised for use with water based hydraulic fluids up to +70°C (+158°F). Suitable for use with some gases, fluids and chemicals (contact RYCO Hydraulics Technical Department). Smooth inner tube for high flow rate; and smooth, easily cleaned cover. The polyester reinforcement gives TP7TN Hose excellent corrosion and fatigue resistance, and low elongation of ±2% at maximum dynamic working pressure.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
AS 3791 100R7, EN 855 TYPE R7, ISO 3949, SAE 100R7.

TUBE:
White, oil resistant seamless thermoplastic (Polyester).

REINFORCEMENT:
One or two braids of synthetic fibre.

COVER:
Orange, oil and abrasion resistant thermoplastic (Polyurethane). Cover is non-perforated.

FEATURES:
Meets non-conductivity requirements of SAE 100R7, AS 3791 100R7, EN 855 Type 7 (maximum leakage does not exceed 50 µA when subjected to 75 kV/305 mm or 250 kV/m for 5 minutes). Incorrect storage and use, particularly that leading to oil or moisture entering the reinforcement, may adversely affect electrical properties.

TEMPERATURE RANGE:
From -40°C to +100°C (-40°F to +212°F).
Air & Water +70 °C (+158 °F).
For water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -08) pages 177 to 187.
T4000 Series (sizes -04 to -08) pages 209 to 216.
Assembly Instructions pages 498 and 505.

TP7TN – ISOLATOR NON-CONDUCTIVE TWIN HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE															
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
TP74TN	6	-04	6,5	1/4	12,2	0.48	210	3000	840	12000	35	1.4	0,20	0.13	T1000	T4000
TP76TN	10	-06	9,7	3/8	16,0	0.63	160	2300	640	9200	55	2.2	0,30	0.20	T1000	T4000
TP78TN	12	-08	13,0	1/2	20,3	0.80	140	2000	560	8000	75	3.0	0,44	0.30	T1000	T4000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

TP8
SPIDERLINE R8 HOSE

RECOMMENDED FOR:
High pressure hydraulic oil lines; pilot lines; greasing and lubrication lines; and some pneumatic and water lines. Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Suitable for use with some gases, fluids and chemicals. Cover is perforated (pin-pricked) for use with air and gases.

RYCO SPIDERLINE hose is lighter weight, has a more compact outside diameter and is less than half the minimum bend radius of wire braided rubber hose. Smooth inner tube for high flow rate; and smooth, easily cleaned cover.

The synthetic and aramid fibre reinforcement gives SPIDERLINE hose excellent corrosion and fatigue resistance plus low elongation at maximum dynamic working pressure.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
AS 3791 100R8, EN 855 TYPE R8, ISO 3949, SAE 100R8.

TUBE:
White, oil resistant seamless thermoplastic (Polyester).

REINFORCEMENT:
One or two braids of aramid fibre.

COVER:
Black, oil and abrasion resistant thermoplastic (Polyurethane). Cover is perforated (pin-pricked).

TEMPERATURE RANGE:
From -40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -08) pages 177 to 187.
Assembly Instructions page 498.

TP8 – SPIDERLINE HOSE															
			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
TP84	6	-04	6,5	1/4	11,5	0.45	350	5000	1400	20000	50	2.0	0,09	0.06	T1000
TP86	10	-06	9,7	3/8	15,5	0.61	280	4000	1120	16000	60	2.4	0,14	0.09	T1000
TP88	12	-08	13,0	1/2	19,9	0.78	245	3500	980	14000	80	3.1	0,20	0.13	T1000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

TP8N

ISOLATOR
R8 NON CONDUCTIVE HOSE

RECOMMENDED FOR:
Hydraulic oil lines where electrical non-conductivity is required (for use in applications where there is potential for contact with high voltage sources). Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Heat and hydrolysis stabilised for use with water based hydraulic fluids up to +70°C (+158°F). Smooth inner tube for high flow rate; and smooth, easily cleaned cover.
The high strength, non-metallic reinforcement gives these hoses excellent corrosion and fatigue resistance, and low elongation of ±2% at maximum dynamic working pressure.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
AS 3791 100R8, EN 855 TYPE R8, ISO 3949, SAE 100R8.

TUBE:
White, oil resistant seamless thermoplastic (Polyester).

REINFORCEMENT:
One or two braids of aramid fibre.

COVER:
Orange, oil and abrasion resistant thermoplastic (Polyurethane).
Cover is non-perforated.

FEATURES:
Meets non-conductivity requirements of SAE 100R7, AS 3791 100R7, EN 855 Type 7 (maximum leakage does not exceed 50 µA when subjected to 75 kV/305 mm or 250 kV/m for 5 minutes). Incorrect storage and use, particularly that leading to oil or moisture entering the reinforcement, may adversely affect electrical properties.

TEMPERATURE RANGE:
From -40°C to +100°C (-40°F to +212°F).
Air & Water +70 °C (+158 °F).
For water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -08) pages 177 to 187.
Assembly Instructions page 498.

TP8N – ISOLATOR NON-CONDUCTIVE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
TP84N	6	-04	6,5	1/4	11,5	0.45	350	5000	1400	20000	50	2.0	0,09	0.06	T1000
TP86N	10	-06	9,7	3/8	15,5	0.61	280	4000	1120	16000	60	2.4	0,14	0.09	T1000
TP88N	12	-08	13,0	1/2	19,9	0.78	245	3500	980	14000	80	3.1	0,20	0.13	T1000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

TP8T
SPIDERLINE R8 TWIN HOSE

RECOMMENDED FOR:
RYCO TP8T SPIDERLINE TWIN Hose consists of two TP8 Series Hoses of the same size, permanently joined together in a flat compact form that can be easily reeled onto payout and return reels on forklifts and cranes. It is also used on dispensing equipment and other applications requiring two hoses.

High pressure hydraulic oil lines; pilot lines; greasing and lubrication lines; and some pneumatic and water lines. Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Suitable for use with some gases, fluids and chemicals. Cover is perforated (pin-pricked) for use with air and gases.

RYCO SPIDERLINE hose is lighter weight, has a more compact outside diameter and is less than half the minimum bend radius of wire braided rubber hose. Smooth inner tube for high flow rate; and smooth, easily cleaned cover.

The synthetic and aramid fibre reinforcement gives SPIDERLINE hose excellent corrosion and fatigue resistance plus low elongation at maximum dynamic working pressure.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
AS 3791 100R8, EN 855 TYPE R8, ISO 3949, SAE 100R8.

TUBE:
White, oil resistant seamless thermoplastic (Polyester).

REINFORCEMENT:
One or two braids of aramid fibre.

COVER:
Black, oil and abrasion resistant thermoplastic (Polyurethane). Cover is perforated (pin-pricked).

TEMPERATURE RANGE:
From -40°C to +100°C (-40°F to +212°F).
Air & Water +70 ˚C (+158 ˚F).
For water, emulsions etc. see page 57.

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

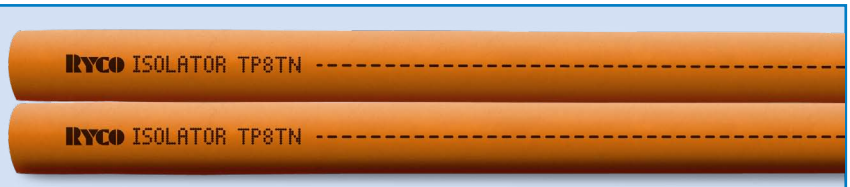
COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -08) pages 177 to 187.
Assembly Instructions pages 498 and 505.

TP8T – SPIDERLINE TWIN HOSE															
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
TP84T	6	-04	6,5	1/4	11,5	0.45	350	5000	1400	20000	50	2.0	0,17	0.11	T1000
TP86T	10	-06	9,7	3/8	15,5	0.61	280	4000	1120	16000	60	2.4	0,27	0.18	T1000
TP88T	12	-08	13,0	1/2	19,9	0.78	245	3500	980	14000	80	3.1	0,40	0.27	T1000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

TP8TN

ISOLATOR
R8 NON CONDUCTIVE TWIN HOSE



RECOMMENDED FOR:
RYCO TP8TN ISOLATOR TWIN Hose consists of two TP8N Series Hoses of the same size, permanently joined together in a flat compact form that can be easily reeled onto payout and return reels on forklifts and cranes. It is also used for hydraulic powered hand tools, such as loppers and chain saws, and other applications requiring two hoses. TP8TN is used where electrical non-conductivity is required (for use in applications where there is potential for contact with high voltage sources). Suitable for use with mineral, vegetable and most ester based hydraulic fluids. Heat and hydrolysis stabilised for use with water based hydraulic fluids up to +70°C (+158°F). Suitable for use with some gases, fluids and chemicals (contact RYCO Hydraulics Technical Department). Smooth inner tube for high flow rate; and smooth, easily cleaned cover. The aramid reinforcement gives TP8TN Hose excellent corrosion and fatigue resistance, and low elongation of ±2% at maximum dynamic working pressure.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
AS 3791 100R8, EN 855 Type R8, ISO 3949, SAE 100R8.

TUBE:
White, oil resistant seamless thermoplastic (Polyester).

REINFORCEMENT:
One or two braids of aramid fibre.

COVER:
Orange, oil and abrasion resistant thermoplastic (Polyurethane). Cover is non-perforated.

FEATURES:
Meets non-conductivity requirements of SAE 100R7, AS 3791 100R7, EN 855 Type 7 (maximum leakage does not exceed 50 µA when subjected to 75 kV/305 mm or 250 kV/m for 5 minutes). Incorrect storage and use, particularly that leading to oil or moisture entering the reinforcement, may adversely affect electrical properties.

TEMPERATURE RANGE:
From -40°C to +100°C (-40°F to +212°F).
Air & Water +70 °C (+158 °F).
For water, emulsions etc. see page 57.

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

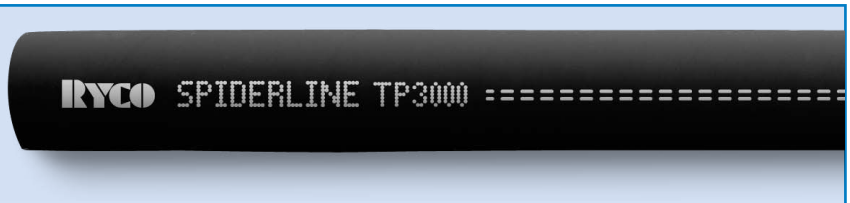
COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T1000 Series (sizes -04 to -08) pages 177 to 187.
Assembly Instructions pages 498 and 505.

TP8TN – ISOLATOR NON-CONDUCTIVE TWIN HOSE															
			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
TP84TN	6	-04	6,5	1/4	11,5	0.45	350	5000	1400	20000	50	2.0	0,17	0.11	T1000
TP86TN	10	-06	9,7	3/8	15,5	0.61	280	4000	1120	16000	60	2.4	0,27	0.18	T1000
TP88TN	12	-08	13,0	1/2	19,9	0.78	245	3500	980	14000	80	3.1	0,40	0.27	T1000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

TP3000

LOW TEMPERATURE R18 ISOBARIC HOSE 210 BAR / 3000 PSI



RECOMMENDED FOR:
Medium pressure hose suitable for petroleum or synthetic based hydraulic fluids in forklift systems. Optimum bonding characteristics and special cover also make it the ideal hose for equipment operating in cold environments, while maintaining a high level of flexibility.

PERFORMANCE:
Meets or Exceeds the Performance Requirements of:
SAE 100 R18.

TUBE:
Polyester elastomer.

REINFORCEMENT:
One or two braids of synthetic fibre.

COVER:
Special polyester, black with white ink-jet branding.
Cover is perforated (pin-pricked).

FEATURES:
Special polyester cover resistant to low temperatures and harsh weather conditions. Optimum bonding between tube, braids and cover for tight bend radii without cover wrinkling.

TEMPERATURE RANGE:
From -55˚C to +100˚C (-67˚F to +212˚F)
Air & Water +70 ˚C (+158 ˚F)
For water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
T4000 Series (sizes -04 to -08) pages 209 to 216.
Assembly Instructions page 498.

TP3000 – ISOBARIC THERMOPLASTIC HOSE															
			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
PART NO	HOSE SIZE														
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
TP3004	6	-04	6,5	1/4	12,2	0.48	210	3000	840	12000	35	1.4	0,09	0.06	T4000
TP3006	10	-06	9,7	3/8	16,6	0.65	210	3000	840	12000	45	1.8	0,16	0.11	T4000
TP3008	12	-08	13,0	1/2	22,5	0.89	210	3000	840	12000	70	2.8	0,29	0.20	T4000

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

TPGL

THERMOPLASTIC HIGH PRESSURE GREASELINE HOSE

RECOMMENDED FOR:
Thermoplastic constant pressure hose for high pressure greasing and lubrication systems.

TUBE:
White, oil resistant seamless thermoplastic polymer.

REINFORCEMENT:
One braid of synthetic fibre.

COVER:
Black, oil and abrasion resistant thermoplastic ploymer.
Cover is non-perforated.

FEATURES:
Polyester reinforcement for high pressure.
Extremely compact and flexible, and highly kink resistant.
Special low-friction smooth cover for easy installation and compact routing.

TEMPERATURE RANGE:
From -40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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

COUPLINGS:
BITELOK NON-SKIVE ONE-PIECE CRIMP
TG000 Series (size -02) page 244.
Assembly Instructions page 498.

FIELD ATTACHABLE NON-SKIVE
6000 Series insert (size -02) pages 276 to 290.
P000 Series ferrule (size -02) page 276.

TPGL – THERMOPLASTIC GREASELINE HOSE			NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES	
PART NO	HOSE SIZE														ONE PC	FIELD ATT
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
TPGL2	4	-02	4,0	0.16	8,3	0.33	250	3600	1000	14400	25	0.98	0,05	0.03	TG000	6000 (P000)

Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

R4100

FLEXIBLE GREASE GUN EXTENSIONS

RECOMMENDED FOR:
Rubber-covered hose for high pressure greasing and lubrication systems.

TUBE:
Black, oil resistant seamless synthetic rubber.

REINFORCEMENT:
One braid of high tensile steel wire.

COVER:
Black, oil and abrasion resistant synthetic rubber.

FEATURES:
Suit standard grease guns.
High tensile wire reinforcement for high pressure and durability.
Available in a variety of lengths

TEMPERATURE RANGE:
From -40°C to +100°C (-40°F to +212°F).
For water, emulsions etc. see page 57.

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

R4100 - FLEXIBLE GREASE GUN EXTENSIONS				
PART NO	OVERALL LENGTH		END 1 CONNECTION	END 2 CONNECTION
Hose	mm	inch		
R4100	255	10	1/8" BSPT MALE	1/8" BSPT MALE
R4200	380	15	1/8" BSPT MALE	1/8" BSPT MALE
R4101	460	18	1/8" BSPT MALE	1/8" BSPT MALE
R4201	610	24	1/8" BSPT MALE	1/8" BSPT MALE
R4202	710	28	1/8" BSPT MALE	1/8" BSPT MALE

RYCO

HOSE PROTECTION

EXTRA ABRASION RESISTANT

FRAS - FLAME RESISTANT ANTI STATIC

RYCO QUALITY

BUNDLE MULTIPLE HOSES

RCS CROCSLEEVE SHOWN ABOVE
THE LATEST IN RYCO'S SUPERIOR RANGE OF HOSE PROTECTION PRODUCTS

HOSE PROTECTION – FS1072 FIRE SLEEVE

FS1072
FIRE SLEEVE

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF:
SAE AEROSPACE STANDARD AS 1072.

RECOMMENDED FOR:
Increasing service life of hoses used in hostile environments. It is a tough, flexible insulation, which not only protects from from intense external radiant heat, but also sheds molten metal splash. Consequently, damage to hoses is reduced and service life is increased. In the event of fire, hoses carrying flammable or hazardous materials remain intact longer. It can also be used to protect cables, pipes and wire ropes. RYCO FS1072 FIRE SLEEVE can also be used to reduce heat loss from hoses.

CONSTRUCTION:
RYCO FS1072 FIRE SLEEVE is manufactured from high bulk braided glass fibre tubing, coated with silicon rubber. The “danger red” colour of the silicon rubber is due to heavy loading of iron oxide to improve heat resistance.

TEMPERATURE RANGE:
Continuous exposure:
from -54°C to +260°C (-65°F to +500°F)
15 to 20 minutes:
from +260°C to +1090°C (+500°F to +2000°F)
15 to 30 seconds:
from +1090°C to +1640°C (+2000°F to +3000°F)

TYPICAL PROPERTIES:
K Value in $\frac{BTU/°F/hr/in2}{Cal/cm}$ 1.20
K Value in sec-cm2-°C 0.0004134

FLAME RESISTANCE:
7 seconds to extinguish with no afterglow.

ABRASION RESISTANCE:
Wyzenbeck 9500 cycles, 3.1/3 lb pressure, 6 lb tension using fine emery cloth.

OIL AND FLUID RESISTANCE:
Remains functional after immersion for 120hr @ 80°F in MIL-H-5606, MIL-L-6082, Skydrol 500 LD and Skydrol 500.

SIZE SELECTION:
FS1072 FIRE SLEEVE performs best when installed with a loose fit over a hose. However, some end users insist on a tight fit for the sake of appearance. To achieve this tight fit, use compressed air to expand FIRE SLEEVE as it is installed over the hose. Length of FIRE SLEEVE will shorten in length as it increases in diameter, so allow for some extra length to compensate for this.

For a loose fit, there is no hard and fast rule to relate the Nominal Inside Diameter of FIRE SLEEVE with the Nominal Outside Diameter of the hose being covered. However, it is important to take two factors into account: hose length and hose cover.

For hoses up to 5 metres (16 ft) long, use a Nominal Inside Diameter of FIRE SLEEVE 15% larger than the Nominal Outside Diameter of hose being covered. For hoses over 5 metres (16 ft) long, use a size 20% larger. Remember the FIRE SLEEVE must slide over the outside of the hose. The longer the hose, the tougher it is to install, especially if enough tolerance on a long hose has not been allowed.

As the FIRE SLEEVE must slide over the outside of the hose, the hose covering also requires special consideration. A hose with a rough rubber cover is more difficult to slide FIRE SLEEVE over than a hose with a smooth cover.

For hose covers that have a high co-efficient of friction, be sure to allow for greater tolerance between the Nominal Inside Diameter of FIRE SLEEVE and the Nominal Outside Diameter of the hose to be covered.

Sizes FS1072-08 to FS1072-104:
Standard coil length is 15,24 metres (50 ft);
or cut lengths. Lengths longer than 15,24 meters (50 ft) are also available, contact RYCO Customer Service.

Sizes FS1072-80 and FS1072-104:
Standard coil length is 5 metres (16.4 ft)

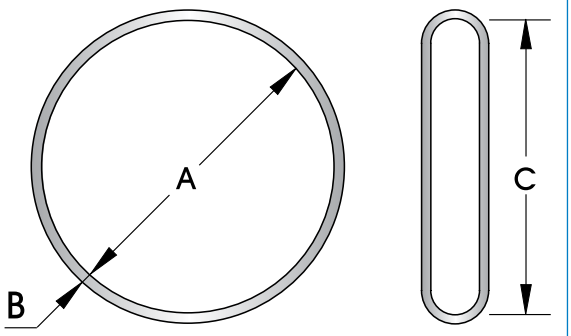
FS1072 FIRE SLEEVE can be slit longitudinally to form a flat FIRE TAPE which can be wound around larger diameter hoses and secured with stainless steel ties or FSTAPE-16.

FSTAPE-16

FSTAPE-16 is an iron oxide, red silicone rubber tape. It is designed to be, not only self-bonding and self-curing, but to also bond and cure onto FS1072 FIRE SLEEVE. It can be used to join seperate sections of FIRE SLEEVE, as well as to repair any scuffed or nicked areas of FIRE SLEEVE. It can be used as an end sealant (instead of clamps) to prevent moisture and hydraulic oils wicking into the inner fibreglass braid.
FSTAPE-16 is supplied in a roll 25 mm WIDE x 11 metres LONG x 0,5 mm THICK (1 inch x 36 ft x 0.02 inch)

FS1072 FIRE SLEEVE SPECIFICATIONS

PART NO	FIRE SLEEVE DIMENSIONS							
	NOMINAL ID		NOMINAL WALL THICKNESS		NOMINAL INSIDE FLAT DIMENSION		NOMINAL WEIGHT	
	A mm	A inch	B mm	B inch	C mm	C inch	kg/m	lb/ft
FS1072-08	12,7	0.50	4,3	0.17	20,0	0.79	0,19	0.13
FS1072-11	17,5	0.69	4,3	0.17	27,5	1.08	0,29	0.19
FS1072-14	22,2	0.87	4,4	0.17	34,9	1.37	0,28	0.19
FS1072-16	25,4	1.00	4,8	0.19	39,9	1.57	0,31	0.21
FS1072-18	28,6	1.13	4,7	0.19	46,6	1.84	0,37	0.25
FS1072-20	31,8	1.25	4,7	0.19	47,4	1.87	0,36	0.24
FS1072-22	34,9	1.38	4,8	0.19	54,8	2.17	0,43	0.29
FS1072-24	38,1	2.50	4,0	0.16	58,3	2.29	0,46	0.31
FS1072-30	47,6	1.87	4,0	0.16	74,8	2.93	0,54	0.36
FS1072-32	50,8	2.00	4,0	0.16	79,8	3.14	0,55	0.37
FS1072-40	63,5	2.50	4,1	0.16	94,2	3.71	0,84	0.56
FS1072-44	69,9	2.75	5,0	0.20	109,8	4.32	0,85	0.57
FS1072-64	102,0	4.02	5,0	0.20	160,2	6.32	1,07	0.72
FS1072-80	127,0	5.00	5,0	0.20	199,5	7.89	2,26	1.52
FS1072-104	165,0	6.50	5,0	0.20	259,2	10.21	2,86	1.92



HOSE NOMINAL OUTSIDE DIAMETER REFERENCE CHART

This chart may be used as a quick reference to assist in choosing correct size of Hose Protection. Dimensions are nominal only, and are in millimetres. Divide by 25.4 to convert to inches.

HOSE SIZE			HOSE SERIES																						
DN	inch	Dash	T3000A/D/S	T3600A/D/S	T4000A/D/S	T5000A/D/S	T6000A/D/S	H3000A/D/S	H4000A/D/S	H5000/A/D/S	H6000A/D/S	T1A/D/S	T1F	T2A/D/S	T2C	TXA2D	DF2A	E2	TJ2D	H12A/D/S	R4SHA/D	R4SPA/D	T5	D2B	MS1000	CS1000
3	1/8	-02																								
5	3/16	-03										11,7	11,7													
6	1/4	-04	11,8	11,8	11,8	13,2	13,2					13,3	13,3	14,9	15,0		13,4	14,9	14,9				13,2			
8	5/16	-05	14,4	14,4	15,6	15,6	15,6					14,9	14,9	16,5	16,6		14,9	16,5	18,9				14,8			
10	3/8	-06	15,6	15,6	16,6	17,1	17,6		19,3	19,3	19,3	17,3	17,3	18,9	19,0		17,3	18,9		19,3		20,9	17,2			
12	1/2	-08	18,7	18,7	20,6	20,6	21,5		22,7	22,7	22,7	20,3	20,3	21,9	22,2	22,0	20,3	21,9		22,7		24,3	19,4		18,5	18,5
16	5/8	-10	23,4	23,4	23,4	24,8			24,9	26,2	26,2	23,6	23,6	25,1	25,2	25,2	23,6	25,1		26,2		27,8	23,4		22,1	22,1
19	3/4	-12	27,6	27,6	28,4	27,8			30,0	29,6	30,6	27,6	27,6	29,1	29,1	29,1	27,6	29,1		30,0	31,8	31,8	27,4		25,8	25,8
25	1	-16	34,8	34,8	35,2				36,9	36,8	37,5	35,5	35,5	37,5	37,2	37,7	35,5	37,5		37,4	37,9	38,6	31,4		32,5	32,5
31	1.1/4	-20						45,7	44,0	45,0	46,4	43,2		47,6	47,4					45,7	44,4	49,6	38,1		39,5	39,5
38	1.1/2	-24						50,3	50,8	52,7	53,1	50,2		54,1	53,8					53,0	52,4	56,0	44,5	48,1	46,0	46,0
51	2	-32						63,3	66,4	67,5	71,5	63,6		66,8	66,7					66,0	66,8	68,9	56,3	61,8	59,1	59,1
63	2.1/2	-40												80,1						82,6						
76	3	-48												93,4												

DN	inch	Dash	BT1	RQP1	RQP2	RQP5	RQP6	TW1	PW2	SR	SRF	RTH1	FB2	M1	MP1	M2	PL1	PL1D	M2G	TP7, TP7N	TP7T, TP7TN	TP8, TP8N	TP8T, TP8TN	TP3000	TPGL	
3	1/8	-02																							8,3	
5	3/16	-03																		9,6						
6	1/4	-04	13,3	13,4	15,0	13,2	12,7		15,0			9,4		12,7	13,5	14,3	12,3	12,3	14,3	12,2	12,2	11,5	11,5	12,2		
8	5/16	-05	14,9	15,0	16,6	14,8	14,3		16,6					14,3			13,9	13,9		14,3	14,3					
10	3/8	-06	17,3	17,4	19,0	17,2	15,9	17,4	19,0			11,7	19,0	15,9	17,5	19,0	15,5	15,5	19,0	16,0	16,0	15,5	15,5	16,6		
12	1/2	-08	20,3	20,5	22,0	19,4	19,8	20,6				15,4	23,0		21,4	23,8	19,0	19,0	23,8	20,3	20,3	19,9	19,9	22,5		
16	5/8	-10	23,6	23,7	25,2	23,4	23,0					18,4	25,4		25,4		22,6	22,6								
19	3/4	-12	27,6	27,6	29,1	27,4	26,4			31,5	31,5	22,1			28,6	31,7	25,8	25,8	31,7	27,1						
25	1	-16	35,5	35,7	37,7	31,4				40,0	40,0	28,6			37,3					34,0						
31	1.1/4	-20			48,0	38,1					46,5				43,9											
38	1.1/2	-24			54,4	44,5					53,1															
51	2	-32			67,3	56,3					65,5															
63	2.1/2	-40								78,5																
76	3	-48								90,7																

HOSE PROTECTION – RCS CROCSLEEVE

RCS
CROCSLEEVE
FLAME RESISTANT
ANTI-STATIC

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. When abrasion occurs, the thousands of tiny filaments in the sleeve bulk up, to continually renew the surface.

CONSTRUCTION:
Densely woven, polyamide tubular sleeve. Black or Red colour. CROCSLEEVE is not affected by exposure to air, water, hydraulic oil and many other fluids. The inside bore of the CROCSLEEVE is smooth, allowing hose to move inside the sleeve, and allowing easy installation.

FRAS - FLAME RESISTANCE AND ANTI-STATIC:
Flame Resistant and Anti-Static - FRAS. Electrical conductivity is 3 to 5 MΩ/m when subjected to 500 Volts DC.

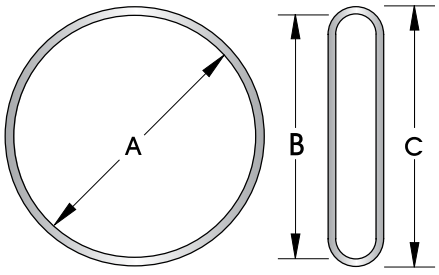
TEMPERATURE RANGE:
From - 50°C to + 121°C (- 58°F to + 250°F).

SIZE SELECTION:
Choose a size that is slightly larger than the hose or hoses to be sleeved - recommended size is 50% larger than nominal Hose OD (see chart on page 145). If CROCSLEEVE is to be installed onto fitted hose assemblies, allow for the maximum outside profile of the hose fittings.

ASSEMBLY INSTRUCTIONS:
1. Cut the CROCSLEEVE to length.
2. The loose fibres of the cut edges can be sealed with a heat gun or hot knife, to prevent fraying.
3. Install over hoses or hose assemblies.
4. Secure in place using adhesive-lined heat shrink tubing.

RCS CROCSLEEVE SPECIFICATIONS

CROCSLEEVE DIMENSIONS									
PART NO		NOMINAL ID		NOMINAL FLAT ID		NOMINAL FLAT OD		NOMINAL WEIGHT	
BLACK	RED	A mm	A inch	B mm	B inch	C mm	C inch	kg/m	lb/ft
RCSB-20	RCSR-20	20	0.79	31	1.22	34	1.34	0,039	0.026
RCSB-23	RCSR-23	23	0.91	36	1.42	39	1.54	0,044	0.030
RCSB-27	RCSR-27	27	1.06	42	1.65	45	1.77	0,052	0.035
RCSB-31	RCSR-31	31	1.22	49	1.93	52	2.05	0,060	0.040
RCSB-36	RCSR-36	36	1.42	54	2.13	57	2.24	0,065	0.044
RCSB-44	RCSR-44	44	1.73	69	2.72	72	2.83	0,082	0.055
RCSB-47	RCSR-47	47	1.85	74	2.91	77	3.03	0,086	0.058
RCSB-55	RCSR-55	55	2.17	86	3.39	89	3.50	0,102	0.068
RCSB-60	RCSR-60	60	2.36	94	3.70	97	3.82	0,111	0.074
RCSB-66	RCSR-66	66	2.60	104	4.09	107	4.21	0,122	0.082
RCSB-73	RCSR-73	73	2.87	115	4.53	118	4.65	0,135	0.091
RCSB-93	RCSR-93	93	3.66	146	5.75	149	5.87	0,170	0.114
RCSB-112	RCSR-112	112	4.41	176	6.93	179	7.05	0,206	0.138
RCSB-129	RCSR-129	129	5.08	202	7.95	205	8.07	0,360	0.241



CROCSLEEVE SIZE VERSUS HOSE AND DASH SIZE SELECTION TABLE

	T3000A/D/S	T3600A/D/S	T4000A/D/S	T5000A/D/S	T6000A/D/S	H3000A/D/S	H4000A/D/S	H5000/A/D/S	H6000A/D/S	H12A/D/S	R4SHA/D	R4SPA/D	T1A/D/S	T2A/D/S	D2B
PART NO.	**Dash Size**														
RCSB-20	-04	-04	-04	-04	-04								-03,-04		
RCSB-23	-05	-05	-05	-05	-05								-05	-04	
RCSB-27	-06	-06	-06	-06	-06								-06	-05	
RCSB-31	-08	-08	-08	-08			-06	-06	-06	-06		-06	-08	-06	
RCSB-36	-10	-10	-10	-10	-08		-08	-08	-08	-08		-08	-10	-08	
RCSB-44	-12	-12	-12	-12			-10	-10	-10	-10		-10	-12	-10,-12	
RCSB-47							-12	-12	-12	-12	-12	-12			
RCSB-55	-16	-16	-16				-16	-16	-16		-16		-16	-16	
RCSB-60										-16		-16			
RCSB-66							-20	-20			-20		-20		
RCSB-73						-20			-20	-20		-20	-24	-20	-24
RCSB-93						-24	-24	-24	-24	-24	-24	-24	-32	-24	-93
RCSB-112						-32	-32	-32	-32	-32	-32	-32		-32	
RCSB-129										-40				-40	

CROCSLEEVE - SAFETY FIRST

DESIGN FEATURES	BENEFITS
GREATER STRENGTH	CROCSLEEVE is made from high density PA (polyamide) for greater strength
FLAME RESISTANT - ABRASION RESISTANT	CROCSLEEVE is Flame Resistant and Anti-Static - FRAS
BURST RESISTANT	CROCSLEEVE is very resistant to hose burst
PIN HOLE RESISTANT	CROCSLEEVE is very resistant to hose pin holes
LEAK RESISTANT	CROCSLEEVE will allow pressure build up of up to 7 bar (100 psi)
STABLE	CROCSLEEVE is stable and has great resistance to sun, atmospheric agents and ageing
NON-TOXIC	CROCSLEEVE is non toxic
TOUGH	CROCSLEEVE is super tough
COLOURS	CROCSLEEVE comes in BLACK (RCSB) and RED (RCSR)
EASY INSTALLATION	CROCSLEEVE has a smooth bore providing easy installation of the hose

CHEMICALLY COMPATIBLE	Acetone	Very Good	Ether	Very Good
	Alcohols	Very Good	Gasoline	Very Good
	Bacterium	Very Good	Ionic Metallic Solutions	Very Good
	Benzene	Very Good	Mineral Oil	Very Good
	Carbon Tetrachloride	Very Good	Moths	Very Good
	Chlorine Based Solvents	Very Good	Mould	Very Good
	Diluted Acids	Good	Oil	Very Good
	Diluted Bases	Very Good	Vegetable Oil	Very Good

HOSE PROTECTION – RAWHIDE NYLON HOSE SLEEVE

RH
RAWHIDE
NYLON HOSE SLEEVE

RECOMMENDED FOR:
Protection of individual hoses from severe 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.

CONSTRUCTION:
Densely woven, multi-filament nylon, tubular sleeve. Black colour. Nylon is not affected by exposure to air, water, hydraulic oil and many other fluids. The inside bore of the sleeve is smooth, allowing hose to move inside the sleeve, and allowing easy installation.

FLAME RESISTANCE:
Meets Flame Resistant Designation "U.S. MSHA" of the U.S. Department of Labor, Mine Safety and Health Administration.

TEMPERATURE RANGE:
From - 50°C to + 121°C (- 58°F to + 250°F).

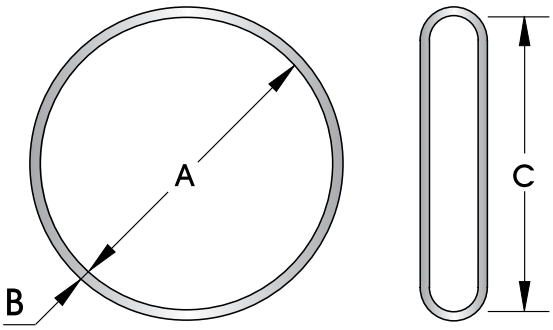
SIZE SELECTION:
Choose a size that is slightly larger than the hose or hoses to be sleeved (see chart on page 145).
If sleeve is to be installed onto fitted hose assemblies, allow for the maximum outside profile of the hose fittings.

ASSEMBLY INSTRUCTIONS:
1. Cut the Nylon Hose Sleeve to length.
2. The loose fibres of the cut edges can be sealed with a heat gun or hot knife, to prevent fraying.
3. Install over hoses or hose assemblies.
4. Secure in place using cable ties, band clamps or hose clamps.

STANDARD COIL LENGTHS:
91,4 metre (300 ft) long coils; or cut lengths.

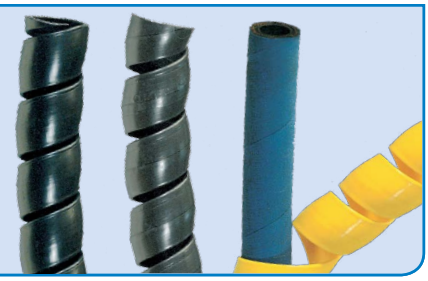
RH RAWHIDE SPECIFICATIONS

RAWHIDE NYLON HOSE SLEEVE								
PART NO	NOMINAL ID		NOMINAL WALL THICKNESS		NOMINAL INSIDE FLAT DIMENSION		NOMINAL WEIGHT	
	A mm	A inch	B mm	B inch	C mm	C inch	kg/m	lb/ft
RH-23	22,9	0.90	2,3	0.09	29,8	1.41	0,06	0.03
RH-27	26,9	1.06	2,3	0.09	39,8	1.67	0,07	0.04
RH-31	31,0	1.22	2,3	0.09	49,9	1.92	0,08	0.05
RH-36	36,0	1.42	2,5	0.10	56,6	2.23	0,09	0.06
RH-46	46,0	1.81	2,5	0.10	72,1	2.84	0,12	0.08
RH-56	55,6	2.19	2,5	0.10	87,4	3.44	0,15	0.10
RH-61	60,5	2.38	2,5	0.10	95,0	3.74	0,16	0.11
RH-67	66,8	2.63	2,5	0.10	104,6	4.12	0,17	0.12
RH-73	73,2	2.88	2,5	0.10	115,1	4.53	0,19	0.13
RH-93	93,0	3.66	2,5	0.10	146,1	5.75	0,25	0.17



RSG

POLYETHYLENE SPIRAL GUARD
RSG (BLACK), RSGY (YELLOW), RSGF (FRAS)



RECOMMENDED FOR:
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.

CONSTRUCTION:
Polyethylene plastic spiral, with rounded edges to protect hose cover. RSG Black; RSGY Yellow; RSGF FRAS (Dark Grey). Polyethylene is not affected by exposure to air, water, hydraulic oil and many other fluids.

TEMPERATURE RANGE:
From -40°C to +120°C (-40°F to +248°F).

ASSEMBLY INSTRUCTIONS:
RYCO Spiral Guard can easily be applied after hose assembly because of its spiral form. Place one end of completed hose assembly in a vice. Wrap coil onto hose. It is recommended to choose RYCO Spiral Guard size so that it is a tight fit on the hose. This will keep the Spiral Guard in place on the hose. The Spiral Guard expands to fit the hose or hose bundle. Allow extra length of Spiral Guard to allow for this expansion.

SIZE SELECTION:
The tables below show RYCO Spiral Guard size selection for a tight fit on the hose. Due to the Spiral Guard expanding to fit the hose, extra length of Spiral Guard must be allowed. This extra length can be estimated as follows:
T26A Nominal OD = 18,9 mm (see chart on page 145)
RSG-20L Nominal ID = 15,0 mm (from chart below)
Estimated length of RSG-20L to cover 2,3 metres of T26A

$$= \frac{18,9}{15,0} \times 2,3 \text{ m} = 2,90 \text{ metres}$$

HOW TO ORDER:
Complete the Part Number: **RSG-16L**, **RSGY-75L**, **RSGF-50L** etc.

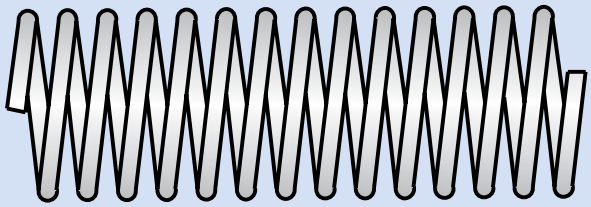
Sizes -16L to -90L: 20 m (65.6 ft) coils or cut to length.
Size -110L: 10 m (32.8 ft) coils or cut to length.

SPIRAL GUARD				HOSE SERIES																								
DASH SIZE	NOMINAL ID mm	NOMINAL ID inch	NOMINAL OD mm	NOMINAL OD inch	T3000A/D/S	T3600A/D/S	T4000A/D/S	T5000A/D/S	T6000A/D/S	H3000A/D/S	H4000A/D/S	H5000/A/D/S	H6000A/D/S	T1A/D/S	T1F	T2A/D/S	T2C	TXA2D	DF2A	E2	TJ2D	H12A/D/S	R4SHA/D	R4SPA/D	T5	D2B	MS1000	CS1000
-12L	9,0	0.35	13,0	0.51	-4	-4	-4	-4						-3	-3				-4									
-16L	12,0	0.47	16,5	0.65	-5, -6	-5, -6	-5	-5	-4,-5					-4, -5	-4,-5	-4	-4		-5	-4	-4				-4,-5			
-20L	15,0	0.59	20,0	0.79	-8	-8	-6, -8	-6, -8	-6		-6	-6	-6	-6, -8	-6, -8	-5,-6	-5,-6		-6	-5,-6	-5	-6		-6	-6,-8		-8	-8
-25L	19,0	0.75	24,5	0.96	-10	-10	-8-10		-8		-8	-8	-8	-10	-10	-8, -10	-8, -10	-8, -10	-8	-8, -10		-8		-8	-10		-10	-10
-32L	23,0	0.91	30,0	1.18	-12	-12	-12	-10,-12			-10,-12	-10,-12	-10,-12	-12	-12	-12	-12	-12	-10,-12	-12		-10, 12		-10	-12		-12	-12
-40L	30,5	1.20	39,0	1.54	-16	-16	-16	-16			-16	-16	-16	-16	-16	-16	-16	-16	-16	-16		16	-12,-16	-12,16	-16,-20		-16	-16
-50L	38,0	1.50	46,5	1.83						-20	-20	-20	-20	-20, -24		-20	-20					-20	-20	-20	-24		-20,-24	-20,-24
-63L	47,0	1.85	58,0	2.28						-24	-24	-24	-24	-32		-24	-24, -32					-24	-24	-24	-32	-24	-32	-32
-75L	61,0	2.40	73,0	2.87						-32	-32	-32	-32			-32,-40	-32					-32	-32	-32		-32		
-90L	70,5	2.78	84,5	3.33												-48						-40						
-110L	84,0	3.31	99,0	3.90																								

DASH SIZE	NOMINAL ID mm	NOMINAL ID inch	NOMINAL OD mm	NOMINAL OD inch	BT1	RQP1	RQP2	RQP5	RQP6	TW1	PW2	SR	SRF	RTH1	FB2	M1	MP1	M2	PL1	PL1D	M2G	TP7, TP7N	TP7T, TP7TN	TP8, TP8N	TP8T, TP8TN	TP3000	TPGL	
-12L	9,0	0.35	13,0	0.51		-4		-4	-4					-4,-6		-4			-4	-4		-4	-4	-4	-4	-4	-2	
-16L	12,0	0.47	16,5	0.65	-4,-5	-5	-4	-5	-5, -6		-4			-8		-5, -6		-4	-5,-6	-5,-6		-5, -6	-5,-6	-6	-6	-6		
-20L	15,0	0.59	20,0	0.79	-6,	-6,-8	-5,-6	-6,-8	-8	-6	-5,-6			-10	-6		-4,-6	-6	-8	-8	-4,-6	-8	-8	-8	-8			
-25L	19,0	0.75	24,5	0.96	-8,-10	-10	-8, -10	-10	-10	-8				-12	-8		-8,-10	-8	-10	-10	-8					-8		
-32L	23,0	0.91	30,0	1.18	-12	-12	-12	-12	-12			-12		-16	-10		-12	-12	-12	-12	-12	-12							
-40L	30,5	1.20	39,0	1.54	-16	-16	-16	-16,-20					-12				-16					-16							
-50L	38,0	1.50	46,5	1.83			-20	-24				-16	-16				-20												
-63L	47,0	1.85	58,0	2.28			-24	-32					-20,-24																
-75L	61,0	2.40	73,0	2.87			-32						-32																
-90L	70,5	2.78	84,5	3.33								-40																	
-110L	84,0	3.31	99,0	3.90								-48																	

HOSE PROTECTION – RWA WIRE ARMOUR

RWA
WIRE ARMOUR



RECOMMENDED FOR:
Protection for Hose Cover in arduous operating conditions; especially against abrasion and deep gouges, thus prolonging the life of the Hose.

CONSTRUCTION:
Spring Steel Wire; galvanised for corrosion protection.

TEMPERATURE RANGE:
Suitable for use with all RYCO Hoses at their published temperature ranges.

ASSEMBLY INSTRUCTIONS:
1. Slide RWA Wire Armour over hose after first end of hose assembly is completed.
2. Then complete second end of hose assembly.

STANDARD LENGTH:
6 metres (19.7 ft) in all sizes.

WIRE ARMOUR			HOSE SERIES																						
PART NO	NOMINAL ID mm	NOMINAL ID inch	T3000A/D/S	T3600A/D/S	T4000A/D/S	T5000A/D/S	T6000A/D/S	H3000A/D/S	H4000A/D/S	H5000/A/D/S	H6000A/D/S	T1A/D/S	T2A/D/S	T2C	TXA2D	DF2A	E2	TJ2D	H12A/D/S	R4SHA/D	R4SPA/D	T5	D2B	MS1000	CS1000
RWA-12	12	0.47																							
RWA-16	16	0.63	-4,-5	-4,-5	-4	-4	-4					-4,-5	-4			-4	-4					-4,-5			
RWA-20	20	0.78	-6	-6	-5,-6	-5,-6	-5,-6					-6	-5	-4,-5		-6	-5	4				-6			
RWA-21	21	0.83	-8	-8					-6	-6	-6		-6	-6			-6	-5				-8		-8	-8
RWA-23	23	0.91			-8	-8	8					-8	-8		-8	-8	-8		-6		-6				
RWA-27	27	1.06	-10	-10	-10	-10			-8, -10	-8	-8	-10		-8, -10		-10	-10		-8		-8	-10		-10, -12	-10, -12
RWA-30	30	1.19	-12	-12	-12	-12				-10	-10	-12	-10		-10	-12			-10		-10	-12			
RWA-31	31	1.22								-12			-12	-12	-12		-12								
RWA-34	34	1.34							-12		-12								-12	-12	-12	-16		-16	-16
RWA-39	39	1.52	-16	-16	-16				-16	-16	-16	-16		-16		-16	-16			-16					
RWA-41	41	1.61											-16		-16				-16		-16	-20		-20	-20
RWA-49	49	1.93						-20	-20	-20	-20	-20	-20	-20	-20				-20	-20		-24		-24	-24
RWA-56	56	2.2						-24	-24	-24	-24	-24	-24	-24					-24	-24	-20		-24		
RWA-61	61	2.4																			-24	-32		-32	-32
RWA-68	68	2.68						-32	-32			-32	-32	-32					-32				-32		
RWA-75	75	2.95								-32	-32									-32	-32				

PART NO	NOMINAL ID mm	NOMINAL ID inch	BT1	RQP1	RQP2	RQP5	RQP6	TW1	PW2	SR	SRF	RTH1	FB2	M1	MP1	M2	PL1	PL1D	M2G	TP7, TP7N	TP7T, TP7TN	TP8, TP8N	TP8T, TP8TN	TP3000	TPGL
RWA-12	12	0.47										-4								-3					-2
RWA-16	16	0.63	-4,-5	-4,-5	-4	-4,-5	-4,-5					-6,-8		-4,-5	-4	-4	-4,-5	-4,-5	-4	-4,-5	-4,-5	-4	-4	-4	
RWA-20	20	0.78	-6	-6	-5	-6	-6	-6	-4,-5					-6	-6		-6	-6		-6	-6	-6	-6	-6	
RWA-21	21	0.83			-6	-8	-8		-6			-10	-6			-6	-8	-8	-6			-8	-8		
RWA-23	23	0.91	-8	-8	-8			-8					-8		-8					-8	-8				
RWA-27	27	1.06	-10	-10		-10	-10					-12	-10		-10	-8	-10	-10	-8					-8	
RWA-30	30	1.19	-12	-12	-10	-12	-12								-12		-12	-12		-12					
RWA-31	31	1.22			-12							-16													
RWA-34	34	1.34				-16													-12						
RWA-39	39	1.52	-16							-12	-12									-16					
RWA-41	41	1.61		-16	-16	-20				-16	-16														
RWA-49	49	1.93			-20	-24					-20														
RWA-56	56	2.2			-24						-24														
RWA-61	61	2.4				-32																			
RWA-68	68	2.68			-32						-32														
RWA-75	75	2.95																							

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 heat sealed, or folded over and stapled, or taped closed.

CONSTRUCTION:
Heavy gauge low density polyethylene clear plastic tubing; printed at intervals with "RYCO" logo, and incorporating an area for the hose assembly Part Number to be written.

ASSEMBLY INSTRUCTIONS:
1. Select correct size of RYCO RHYS Packaging Sleeve. It must be large enough to allow for the maximum outside profile of the hose couplings.

   Two sizes are available:

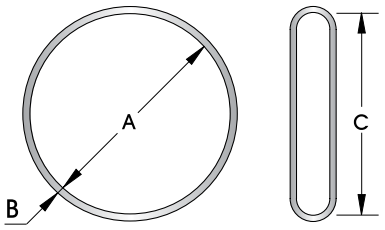
   RHYS-75 suits most hoses up to -16 (1") hose bore.

   RHYS-125 suits most hoses from -16 to -32 (1" to 2") hose.
2. If required, write the hose assembly Part Number onto the Packaging Sleeve using a ball point pen.
3. Slide the hose assembly into the RHYS Packaging Sleeve.
4. Trim Packaging Sleeve to length, and seal ends.

STANDARD COIL LENGTHS:
350 metres (1,150 feet).

RHYS HOSE ASSEMBLY PACKAGING SLEEVE SPECIFICATIONS

PART NO	PACKAGING SLEEVE NOMINAL ID		NOMINAL WALL THICKNESS		NOMINAL INSIDE FLAT DIMENSION		NOMINAL WEIGHT	
	A mm	A inch	B mm	B inch	C mm	C inch	kg/m	lb/ft
RHYS-75	48	1.9	0,15	0.006	75	3.0	0,021	0.014
RHYS-125	79	3.1	0,15	0.006	125	5.0	0,035	0.023



RHYT/ RHWT

HOSE TAG

RECOMMENDED FOR:

Permanent identification of hose assemblies. RYCO Hose Tags enable hose assembly information to be attached to the hose assembly in a cost effective manner.

Two sizes of Hose Tags allow all common hose sizes to be tagged.

Information can be written or printed on the Hose Tag prior to being attached to the hose. When the Hose Tag is wrapped on the hose, a clear panel at the end of the tag wraps over to protect the written or printed information.

Hose Tag remains in position on the hose due to the adhesive backing, and the Hose Tag bends with the hose, ensuring that flexibility is not affected.

The slim profile of the attached Hose Tag reduces the risk of accidental removal. Hose Tag does not damage or cut the cover of the hose.

CONSTRUCTION:

Heat, oil, ozone, sunlight, and weather resistant high performance plastic.

Adhesive-backed for permanent attachment to the hose assembly. Area to write or print information, with a clear panel that wraps over to protect the hose assembly identification information.

TEMPERATURE RANGE:

Suitable for use with all RYCO Hoses at their published temperature ranges.

ASSEMBLY INSTRUCTIONS:

1. Select correct size of RYCO RHYT Hose Tag for the hose assembly that is to be identified.

   Two sizes are available:

   RHYT-10 and **RHWT-10** suits hose sizes -04 to -10 (1/4" to 5/8").

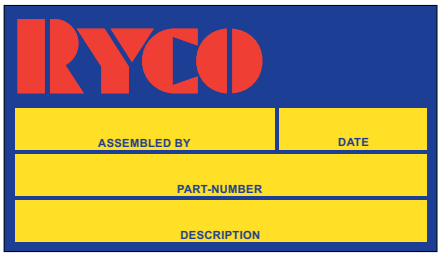
   RHYT-32 and **RHWT-32** suits hose sizes -12 to -32 (3/4" to 2").

2. Using a ball point pen or label printer, apply the required information onto the Hose Tag.
3. Remove the release paper from the back of the Hose Tag to expose the adhesive.
4. While ensuring that the Hose Tag is parallel to the axis of the hose, wrap the Hose Tag tightly around the hose, then continue to wrap the clear plastic panel over the Hose Tag.
5. Press firmly to ensure that the adhesive bonds.

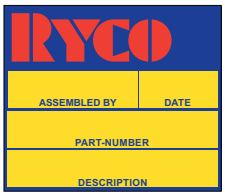
RHYT HOSE TAGS SPECIFICATIONS

RHYT/RHWT HOSE TAGS			
	SUITS HOSE SIZE ID RANGE		
PART NO	DN	INCH	DASH
RHYT-10	6 to 16	1/4 to 5/8	-04 to -10
RHYT-32	12 to 51	3/4 to 2	-12 to -32
RHWT-10	6 to 16	1/4 to 5/8	-04 to -10
RHWT-32	12 to 51	3/4 to 2	-12 to -32

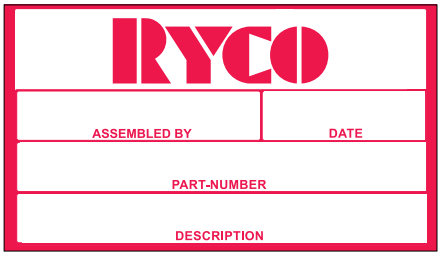
Contact RYCO for further information.



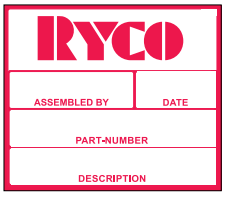
RHYT-32



RHYT-10



RHWT-32



RHWT-10

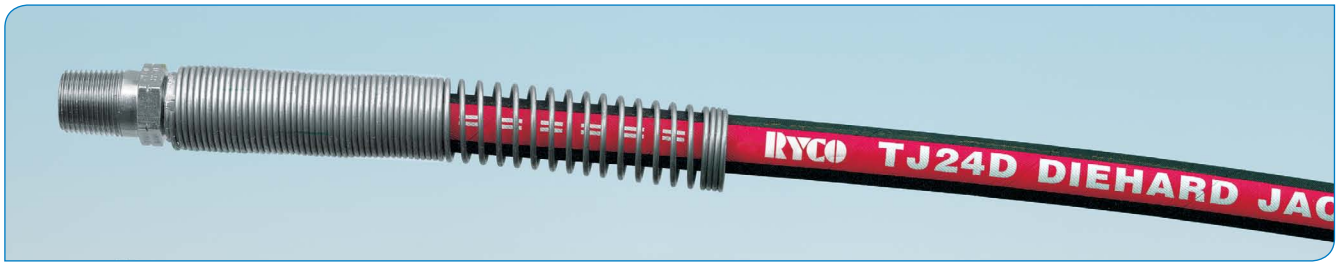
750/760
SPRING GUARD

RECOMMENDED FOR:
TJ24D and TJ26D Specialist Jacking Hose Assemblies, to control bend radius at end of hoses to avoid excessive strain on hose couplings. Can also be used with **PW24**, **PW26**, **T24A**, **T24C**, **T24D**, **T24S**, **T26A**, **T26C**, **T26D** and **T26S** Hoses. Can be used with **L000** Series Field Attachable and **T2000** Series BITELOK Couplings.

750 Suits some -4 (1/4") and -6 (3/8") hoses
760 Suits some -6 (3/8") hoses

CONSTRUCTION:
Spring Steel Wire; galvanised for corrosion protection.

ASSEMBLY INSTRUCTIONS:
Slide Spring Guards over the hose before assembling hose ends. After ends are assembled, twist and push Spring Guards onto the ferrules. The close pitched end of the Spring Guard goes over the ferrule, and the wide pitched end goes over the hose (as depicted in below image).



HOW TO ORDER RYCO HYDRAULIC HOSE

SEE PAGES 486 AND 487 FOR "HOW TO ORDER HOSE ASSEMBLIES".

Coil length of RYCO Hydraulic Hose varies according to Hose Series and Size.

Wire braid, textile braid and spiral wire reinforced hydraulic hoses are in most cases manufactured in long lengths on flexible mandrels, which results in coils of hose of different lengths. These hoses are produced and supplied in random lengths.

SR Suction Hose is manufactured on rigid mandrels of a specified length.
SR Hose 20 metres (65.6 ft)

If hose is part of a general stock order, every effort will be made to supply length closest to length ordered, but length supplied may be shorter or longer than length ordered. If ordering "a coil" of hose, please specify the length required. If a specific cut length is required, this must be specified when ordering, e.g. 19,5 metres exact length and may be subject to surcharge.

Shown in the table below is the availability of RYCO Hydraulic Hose in Coils (C), and on Reels (R) or in Bulk Cartons (B). Details of average quantities packed on reels (or in cartons) and their dimensions are available from RYCO on request.

HOSE SIZE		HOSE SERIES																								
DASH	INCH	T3000A/D/S	T4000A/D/S	T5000A/D/S	T6000A/D/S	H3000A/D/S	H4000A/D/S	H5000A	H5000D/S	H6000A/D/S	H12A/D/S	R4SPA/D	R4SHA/D	T1A	T1D/S	T1F	T2A/D/S	T2C	TXA2D	DF2A	E2	TJ2D	BT1	RQP1	RQP2	RQP5
-03	3/16"													R,B		R,B	R,B									
-04	1/4"	R,B	R,B	R,B	R,B							R,B		R,B	R,B	R,B	R,B			R,B		R,B	R,B	R,B	R,B	R,B
-05	5/16"													R,B		R,B	R,B									
-06	3/8"	R,B	R,B	R,B	R,B				R,B	R,B	R,B	R,B		R,B	R,B	R,B	R,B			R,B		R,B	R,B	R,B	R,B	R,B
-08	1/2"	R,B	R,B	R,B	R,B		R,B		R,B	R,B	R,B	R,B		R,B	R,B	R,B	R,B		R,B	R,B			R,B	R,B	R,B	R,B
-10	5/8"	R,B	R,B				R,B		R,B	R,B	R,B	R,B		R,B	R,B	R,B	R,B		R,B	R,B			R,B	R,B	R,B	R,B
-12	3/4"	R,B	R,B				R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B		R,B	R,B			R,B	R,B	R,B	R,B
-16	1"	R,B					R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B		R,B	R,B			R,B	R,B	R,B	R,B
-20	1.1/4"					C,B	C,B		C,B	C,B	C,B		C,B	C,B	C,B		C,B		C,B						C,B	C,B
-24	1.1/2"					C,B	C,B		C,B	C,B	C,B		C,B	C,B	C,B		C,B								C,B	C,B
-32	2"					C,B	C,B		C,B	C,B	C,B			C,B	C,B		C,B								C,B	C,B
-40	2.1/2"																C,B									
-48	3"																									

HOSE SIZE		HOSE SERIES																								
DASH	INCH	RQP6	T5	D2B	MS1000	CS1000	TW1	PW2	RTH1	SR	SRF	M1	MP1	M2	PL1/PL1D	M2G	FB2	TP7	TP7N	TP7T	TP7TN	TP8	TP8N	TP8T	TP8TN	TP3000
-03	3/16"																	R,B		R,B		R,B				
-04	1/4"	R,B	R,B						R,B			R,B	R,B	R,B	R,B	R,B		R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B
-05	5/16"																									
-06	3/8"	R,B	R,B				R,B	R,B	R,B			R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B
-08	1/2"	R,B	R,B				R,B	R,B	R,B				R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B
-10	5/8"	R,B	R,B						R,B				R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B	R,B			
-12	3/4"	R,B	R,B						R,B	R	R		R,B	R,B	R,B	R,B	R,B	R,B	R,B			R,B	R,B			
-16	1"		R,B							R	R		R,B	R,B	R,B	R,B		R,B	R,B			R,B	R,B			
-20	1.1/4"		C,B							C	C		C,B													
-24	1.1/2"		C,B	C,B						C	C		C,B													
-32	2"		C,B	C,B						C	C															
-40	2.1/2"									C	C															
-48	3"									C																