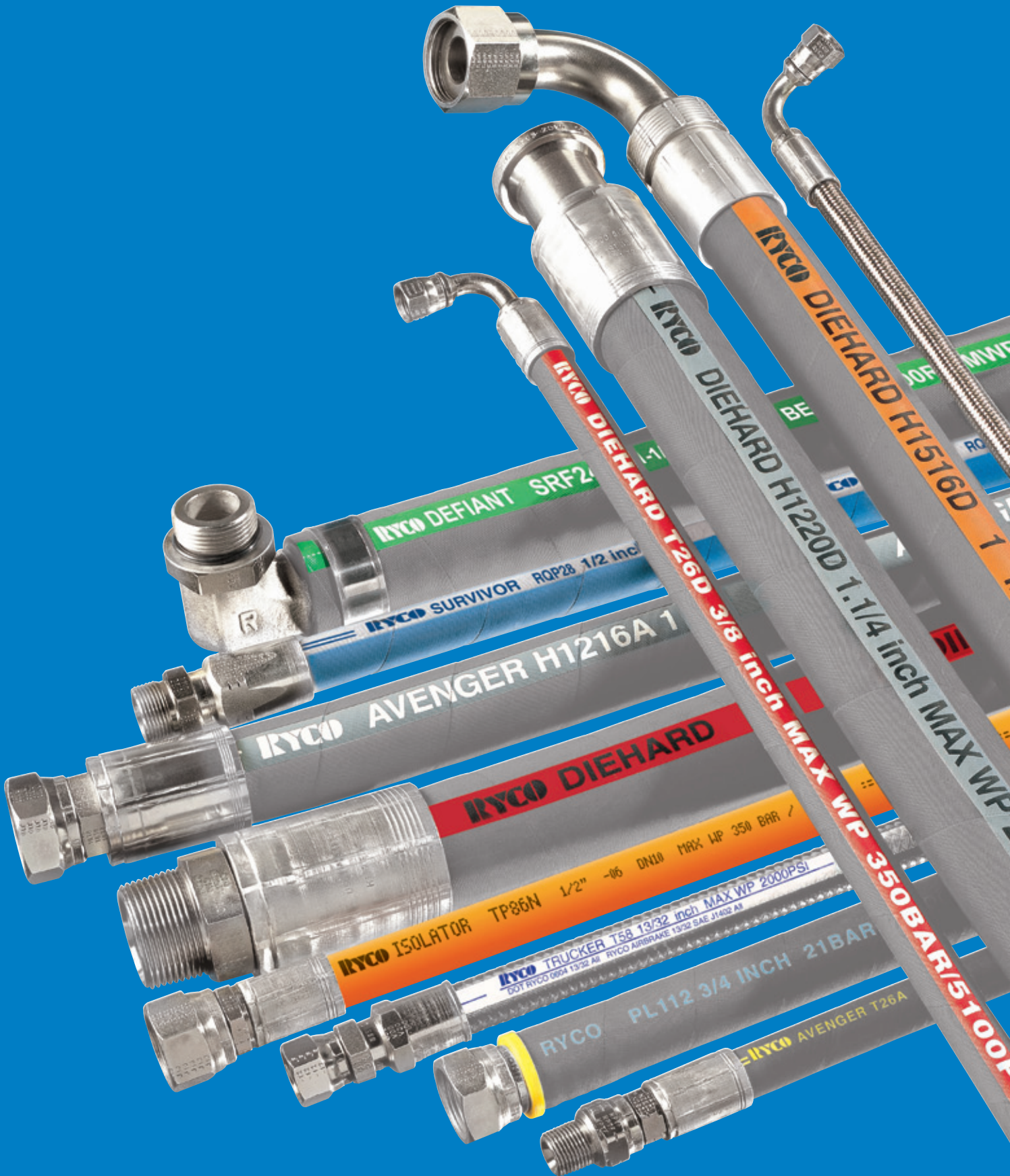



# HYDRAULIC HOSE





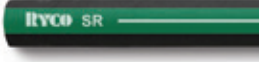
RYCO HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	SPECIFICATIONS
32	<b>T3000D</b> DIEHARD™ ISOBARIC		-4 to -16 (1/4" to 1")	High pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 215 bar (3,100 psi) in all sizes. Very high abrasion resistant cover.	Synthetic rubber tube. One or two braids of high tensile steel wire. Black cover. ISO 18752-AC
34	<b>T4000D</b> DIEHARD™ ISOBARIC		-4 to -12 (1/4" to 3/4")	High pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 280 bar (4,100 psi) in all sizes. Very high abrasion resistant cover.	Synthetic rubber tube. One or two braids of high tensile steel wire. Black cover. ISO 18752-AC
36	<b>T5000D</b> DIEHARD™ ISOBARIC		-4 to -8 (1/4" to 1/2")	Very high pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 350 bar (5,100 psi) in all sizes. Very high abrasion resistant cover.	Synthetic rubber tube. Two braids of high tensile steel wire. Black cover. ISO 18752-AC
38	<b>T6000D</b> DIEHARD™ ISOBARIC		-4 to -6 (1/4" to 3/8")	Extremely high pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 420 bar (6,100 psi) in all sizes. Very high abrasion resistant cover.	Synthetic rubber tube. Two braids of high tensile steel wire. Black cover. ISO 18752-AC
40	<b>T1D</b> DIEHARD™		-4 to -32 (1/4" to 2")	High pressure hydraulic oil lines. Very high abrasion resistant cover.	Synthetic rubber tube. One wire braid. Thin, non-skive black cover. SAE 100R1AT AS 3791 100R1AT DIN 20022-1SN EN 853 Type 1SN ISO 1436 - R1AT & 1SN
42	<b>T2D</b> DIEHARD™		-4 to -48 (1/4" to 3")	High pressure hydraulic oil lines. Very high abrasion resistant cover.	Synthetic rubber tube. Two wire braids. Thin, non-skive black cover. SAE 100R2AT AS 3791 100R2AT DIN 20022-2SN EN 853 Type 2SN ISO 1436 - R2AT & 2SN
44	<b>H3000D</b> DIEHARD™ ISOBARIC		-20 to -32 (1.1/4" to 2")	High pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 215 bar (3,100 psi) in all sizes. Very high abrasion resistant cover.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover. SAE100 R12 EN 856 Type R12 EN 856 Type 4SP
46	<b>H4000D</b> DIEHARD™ ISOBARIC		-08 to -32 (1/2" to 2")	High pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 280 bar (4,100 psi) in all sizes. Very high abrasion resistant cover.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover. SAE100 R12 EN 856 Type R12 EN 856 Type 4SP (size DN25, -16)
48	<b>H5000D</b> DIEHARD™ ISOBARIC		-06 to -32 (3/8" to 2")	Very high pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 350 bar (5,100 psi) in all sizes. Very high abrasion resistant cover.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover. SAE100 R13 EN 856 R13
50	<b>H6000D</b> DIEHARD™ ISOBARIC		-06 to -32 (3/8" to 2")	Extremely high pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 420 bar (6,100 psi) in all sizes. Very high abrasion resistant cover.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover. SAE 100R15 ISO 3862 Type 15 (Except -32 size)
52	<b>H12D</b> DIEHARD™		-06 to -40 (3/8" to 2.1/2")	Very high pressure hydraulic oil lines. Very high abrasion resistant cover.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover. SAE 100R12 AS 3791 100R12 EN 856 Type R12 EN 856 Type 4SP (-12 to -32) ISO 3862 Type R12
54	<b>H13D</b> DIEHARD™		-12 to -40 (3/4" to 2.1/2")	Extremely high pressure hydraulic oil lines. Very high abrasion resistant cover.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover. SAE 100R13 AS 3791 100R13 EN 856 Type R13 ISO 3862 Type R13
56	<b>H15D</b> DIEHARD™		-12 to -32 (3/4" to 2")	Extremely high pressure hydraulic oil lines. Very high abrasion resistant cover.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover. SAE 100R15 ISO 3862 Type 15 (Except -32 size)

\*Fitted as factory hose only



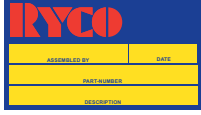


RYCO HOSE SERIES		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	SPECIFICATIONS	
33	<b>T3000S</b> SLIDER™ ISOBARIC		-4 to -16 (1/4" to 1")	High pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 215 bar (3,100 psi) in all sizes. Extremely abrasion resistant exterior protection layer.	Synthetic rubber tube. One or two braids of high tensile steel wire. Black cover with exterior protection layer.	ISO 18752-AC
35	<b>T4000S</b> SLIDER™ ISOBARIC		-4 to -12 (1/4" to 3/4")	High pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 280 bar (4,100 psi) in all sizes. Extremely abrasion resistant exterior protection layer.	Synthetic rubber tube. One or two braids of high tensile steel wire. Black cover with exterior protection layer.	ISO 18752-AC
37	<b>T5000S</b> SLIDER™ ISOBARIC		-4 to -8 (1/4" to 1/2")	Very high pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 350 bar (5,100 psi) in all sizes. Extremely abrasion resistant exterior protection layer.	Synthetic rubber tube. Two braids of high tensile steel wire. Black cover with exterior protection layer.	ISO 18752-AC
39	<b>T6000S</b> SLIDER™ ISOBARIC		-4 to -6 (1/4" to 3/8")	Extremely high pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 420 bar (6,100 psi) in all sizes. Extremely abrasion resistant exterior protection layer.	Synthetic rubber tube. Two braids of high tensile steel wire. Black cover with exterior protection layer.	ISO 18752-AC
41	<b>T1S</b> SLIDER™		-4 to -32 (1/4" to 2")	High pressure hydraulic oil lines. Extremely abrasion resistant exterior protection layer.	Synthetic rubber tube. One wire braid. Thin, non-skive black cover with exterior protection layer.	SAE 100R1AT AS 3791 100R1AT DIN 20022-1SN EN 853 Type 1SN ISO 1436 - R1AT & 1SN
43	<b>T2S</b> SLIDER™		-4 to -32 (1/4" to 2")	High pressure hydraulic oil lines. Extremely abrasion resistant exterior protection layer.	Synthetic rubber tube. Two wire braids. Thin, non-skive black cover with exterior protection layer.	SAE 100R2AT AS 3791 100R2AT DIN 20022-2SN EN 853 Type 2SN ISO 1436 - R2AT & 2SN
45	<b>H3000S</b> SLIDER™ ISOBARIC		-20 to -32 (1.1/4" to 2")	High pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 215 bar (3,100 psi) in all sizes. Extremely abrasion resistant exterior protection layer.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover with exterior protection layer.	SAE100 R12 EN 856 Type R12 EN 856 Type 4SP
47	<b>H4000S</b> SLIDER™ ISOBARIC		-08 to -32 (1/2" to 2")	High pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 280 bar (4,100 psi) in all sizes. Extremely abrasion resistant exterior protection layer.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover with exterior protection layer.	SAE100 R12 EN 856 Type R12 EN 856 Type 4SP (size DN25, -16)
49	<b>H5000S</b> SLIDER™ ISOBARIC		-06 to -32 (3/8" to 2")	Very high pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 350 bar (5,100 psi) in all sizes. Extremely abrasion resistant exterior protection layer.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover with exterior protection layer.	SAE100 R13 EN 856 R13
51	<b>H6000S</b> SLIDER™ ISOBARIC		-06 to -32 (3/8" to 2")	Extremely high pressure hydraulic oil lines. Constant Working Pressure (Isobaric) of 420 bar (6,100 psi) in all sizes. Extremely abrasion resistant exterior protection layer.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover with exterior protection layer.	SAE 100R15 ISO 3862 Type 15 (Except -32 size)
53	<b>H12S</b> SLIDER™		-12 to -32 (3/4" to 2")	Very high pressure hydraulic oil lines. Extremely abrasion resistant exterior protection layer.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover with exterior protection layer.	SAE 100R12 AS 3791 100R12 EN 856 Type R12 EN 856 Type 4SP (-12 to -32) ISO 3862 Type R12
55	<b>H13S</b> SLIDER™		-12 to -32 (3/4" to 2")	Extremely high pressure hydraulic oil lines. Extremely abrasion resistant exterior protection layer.	Synthetic rubber tube. Multiple layers of spiralled high tensile steel wire. Black cover with exterior protection layer.	SAE 100R13 AS 3791 100R13 EN 856 Type R13 ISO 3862 Type R13

\*Fitted as factory hose only

<b>RYCO HOSE SERIES</b>		<b>INSIDE DIAMETER</b>	<b>RECOMMENDED</b>	<b>CONSTRUCTION</b>	<b>SPECIFICATIONS</b>
<b>57</b>	<b>PL1D</b> DIEHARD™ PUSH-ON	 -4 to -12 (1/4" to 3/4")	Low pressure hydraulic oil lines, air and water. Very high abrasion resistant cover.	Synthetic rubber tube. One textile braid. Black cover.	
<b>58</b>	<b>SRF</b> COMPACT SUCTION	 -12 to -32 (3/4" to 2")	Hydraulic oil suction and low pressure return lines. Half SAE bend radius for compact installations.	Synthetic rubber tube. Textile reinforcement with spiral helix wire. Black cover.	SAE 100R4 AS 3791 100R4
<b>59</b>	<b>SR</b> SUCTION	 -12 to -48 (3/4" to 3")	Hydraulic oil suction and low pressure return lines.	Synthetic rubber tube. Textile reinforcement with spiral helix wire. Black cover.	SAE 100R4 AS 3791 100R4 (except -48 size)



RYCO HOSE PROTECTION		INSIDE DIAMETER	RECOMMENDED	CONSTRUCTION	SPECIFICATIONS
60 61	<b>RCS</b> CROCSLEEVE		23 to 129 mm (7/8" to 5")	Burst and pinhole protection. Protection of hoses from abrasion. Bundling hoses together.	Woven polyamide.  MSHA approved FRAS
62	<b>RSGF</b> 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
63	<b>RHYT</b> HOSE TAGS		Suits sizes -04 to -10 & -12 to -32	Permanent identification of hose assemblies.	High performance plastic.

INTRODUCTION

HOSE

CROCBITE

STAPLELOK

SUPERLOK

RKVF / RKVP

ROTARY + DBB

TECHNICAL

RYCO HOSE		AMERICAN BUREAU OF SHIPPING (ABS)	DET NORISKE VERITAS (DNV)	GERMANISCHER LLOYD (GL)	LLOYD'S REGISTER (LR)	MARINE EQUIPMENT DIRECTIVE (MED)	UNITED STATES COAST GUARD*	
SERIES	SIZE						(USCG)	
<b>T3000D T3000S</b>	T3004D	T3004S	T200	T200	T200	T200	T200	
	T3006D	T3006S	T200	T200	T200	T200	T200	
	T3008D	T3008S	T200	T200	T200	T200	T200	
	T3012D	T3012S	T200	T200	T200	T200	T200	
	T3016D	T3016S	T200	T200	T200	T200	T200	
<b>T4000D T4000S</b>	T4004D	T4004S	T200	T200	T200	T200	T200	
	T4006D	T4006S	T200	T200	T200	T200	T200	
	T4008D	T4008S	T200	T200	T200	T200	T200	
	T4012D	T4012S	T200	T200	T200	T200	T200	
<b>T5000D T5000S</b>	T5004D	T5004S	T200	T200	T200	T200	T200	
	T5006D	T5006S	T200	T200	T200	T200	T200	
	T5008D	T5008S	T200	T200	T200	T200	T200	
<b>T6000D T6000S</b>	T6004D	T6004S	T200	T200	T200	T200	T200	
	T6006D	T6006S	T200	T200	T200	T200	T200	
<b>T1D T1S</b>	T14D	T14S	T200 & K00	T200 & K00	T200 & K00	T200 & K00	T200 & K00	T200
	T16D	T16S	T200, T700 & K00	T200, T700 & K00	T200, T700 & K00	T200, T700 & K00	T200, T700 & K00	T200, T700
	T18D	T18S	T200, T700 & K00	T200, T700 & K00	T200, T700 & K00	T200, T700 & K00	T200, T700 & K00	T200, T700
	T112D	T112S	T200, T700 & K00	T200, T700 & K00	T200, T700 & K00	T200, T700 & K00	T200, T700 & K00	T200, T700
	T116D	T116S	T200, T700 & K00	T200, T700 & K00	T200, T700 & K00	T200, T700 & K00	T200, T700 & K00	T700
	T120D	T120S	T200, T700 & A00	T200, T700 & A00	T200, T700 & A00	T200, T700 & A00	T200, T700 & A00	T700
	T124D	T124S	T700 & A00	T700 & A00	T700 & A00	T700 & A00	T700 & A00	T700
T132D	T132S	T700 & A00	T700 & A00	T700 & A00	T700 & A00	T700 & A00	T700	
<b>T2D T2S</b>	T24D	T24S	T200 & L00	T200 & L00	T200 & L00	T200 & L00	T200 & L00	T200
	T26D	T26S	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200 & T700
	T28D	T28S	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200 & T700
	T212D	T212S	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200 & T700
	T216D	T216S	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T700
	T220D	T220S	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T200, T700 & L00	T700
	T224D	T224S	T700 & B00	T700 & B00	T700 & B00	T700 & B00	T700 & B00	T700
	T232D	T232S	T700 & B00	T700 & B00	T700 & B00	T700 & B00	T700 & B00	T700
	T240D		T700, 1200 SERIES	T700, 1200 SERIES	T700, 1200 SERIES	T700, 1200 SERIES	T700, 1200 SERIES	T700, 1200 SERIES
T248D		T700, 1200 SERIES	T700, 1200 SERIES	T700, 1200 SERIES	T700, 1200 SERIES	T700, 1200 SERIES	T700, 1200 SERIES	
<b>H3000D H3000S</b>	H3020D	H3020S	T700	T700	T700	T700	T700	T700
	H3024D	H3024S	T700	T700	T700	T700	T700	T700
	H3032D	H3032S	T700	T700	T700	T700	T700	T700
<b>H4000D H4000S</b>	H4004D	H4004S	T700	T700	T700	T700	T700	T700
	H4006D	H4006S	T700	T700	T700	T700	T700	T700
	H4008D	H4008S	T700	T700	T700	T700	T700	T700
	H4010D	H4010S	T700	T700	T700	T700	T700	T700
	H4012D	H4012S	T700	T700	T700	T700	T700	T700
	H4016D	H4016S	T700	T700	T700	T700	T700	T700
	H4020D	H4020S	T700	T700	T700	T700	T700	T700
	H4024D	H4024S	T700	T700	T700	T700	T700	T700
H4032D	H4032S	T700	T700	T700	T700	T700	T700	
<b>H5000D H5000S</b>	H5006D	H5006S	T700	T700	T700	T700	T700	T700
	H5008D	H5008S	T700	T700	T700	T700	T700	T700
	H5012D	H5012S	T700	T700	T700	T700	T700	T700
	H5016D	H5016S	T700	T700	T700	T700	T700	T700
	H5020D	H5020S	T700	T700	T700	T700	T700	T700
	H5024D	H5024S	T900	T900	T900	T900	T900	T900
H5032D	H5032S	T900	T900	T900	T900	T900	T900	

\* Refers to Approvals for HYDRAULIC systems only.

RYCO HOSE		AMERICAN BUREAU OF SHIPPING (ABS)	DET NORSKE VERITAS (DNV)	GERMANISCHER LLOYD (GL)	LLOYD'S REGISTER (LR)	MARINE EQUIPMENT DIRECTIVE (MED)	UNITED STATES COAST GUARD* (USCG)
SERIES	SIZE						
<b>H6000D H6000S</b>	H6006D	H6006S	T700	T700	T700	T700	T700
	H6008D	H6008S	T700	T700	T700	T700	T700
	H6012D	H6012S	T700	T700	T700	T700	T700
	H6016D	H6016S	T900	T900	T900	T900	T900
	H6020D	H6020S	T900	T900	T900	T900	T900
	H6024D	H6024S	T900, 6900N	T900, 6900N	T900, 6900N	T900, 6900N	T900, 6900N
	H6032D	H6032S	6900N	6900N	6900N	6900N	6900N
<b>H12D H12S</b>	H1206D	H1206S	T700	T700	T700	T700	T700
	H1208D	H1208S	T700	T700	T700	T700	T700
	H1210D	H1210S	T700	T700	T700	T700	T700
	H1212D	H1212S	T700	T700	T700	T700	T700
	H1216D	H1216S	T700	T700	T700	T700	T700
	H1220D	H1220S	T700	T700	T700	T700	T700
	H1224D	H1224S	T700	T700	T700	T700	T700
	H1232D	H1232S	T700	T700	T700	T700	T700
<b>H13D H13S</b>	H1306D	H1306S	T900	T900	T900	T900	T900
	H1308D	H1308S	T900	T900	T900	T900	T900
	H1310D	H1310S	T900	T900	T900	T900	T900
	H1312D	H1312S	T900	T900	T900	T900	T900
	H1316D	H1316S	T900	T900	T900	T900	T900
	H1320D	H1320S	T900	T900	T900	T900	T900
	H1324D	H1324S	T900	T900	T900	T900	T900
	H1332D	H1332S	T900	T900	T900	T900	T900
<b>H15D H15S</b>	H1512D	H1512S	6900N	6900N	6900N	6900N	6900N
	H1516D	H1516S	T900, 6900N	T900, 6900N	T900, 6900N	T900, 6900N	T900, 6900N
	H1520D	H1520S	T900, 6900N	T900, 6900N	T900, 6900N	T900, 6900N	T900, 6900N
	H1524D	H1524S	6900N	6900N	6900N	6900N	6900N
	H1532D	H1532S	6900N	6900N	6900N	6900N	6900N
<b>SR SRF See Note 1</b>	SR12	SRF12	T400	T400	T400	T400	T400
	SR16	SRF16	T400	T400	T400	T400	T400
	SR20	SRF20	T400	T400	T400	T400	T400
	SR24	SRF24	T400	T400	T400	T400	T400
	SR32	SRF32	T400	T400	T400	T400	T400
<b>SEE NOTE 1</b>							

\* Refers to Approvals for HYDRAULIC systems only.

**NOTE 1** Approvals shaded orange require the fitment of RYCO FS1072 Fire Sleeve on the hose assembly to satisfy the relevant authorities' requirements.

INTRODUCTION

HOSE

CROCBITE

STAPLELOK

SUPERLOK

RKVF / RKVP

ROTARY + DBB

TECHNICAL





# DIEHARD

HOSE THAT WON'T SAY DIE

EXTRA ABRASION RESISTANT

FRAS - FLAME RESISTANT ANTI STATIC

H6000 RYCO DIEHARD

H6032D

RYCO QUALITY

HIGHLY FLEXIBLE





# SLIDER

*GIVE ABRASION THE SLIP*

EXTREMELY ABRASION RESISTANT

FRAS - FLAME RESISTANT ANTI STATIC

H6000 RYCO SLIDER

H6032S

RYCO QUALITY

HIGHLY FLEXIBLE

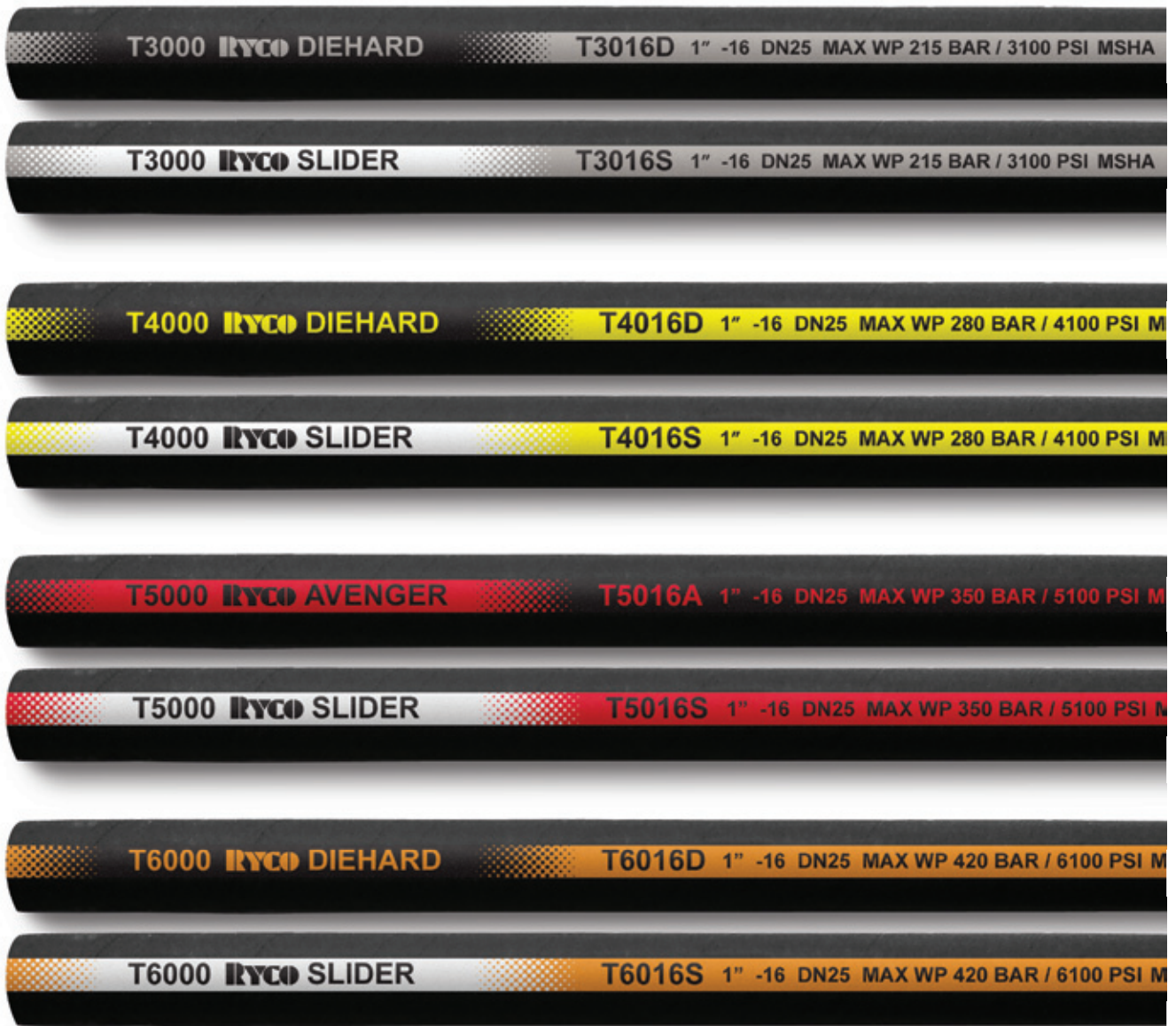


# ISOBARIC HOSES – THE FUTURE

- ✓ GREATER FLEXIBILITY
- ✓ TIGHTER BEND RADIUS
- ✓ TOUGHER
- ✓ LIGHTER
- ✓ EASY INSTALLATION
- ✓ GREATER PERFORMANCE



Available on reels for hose sizes up to 1" (-16)



*Higher Technology Equals Greater Performance*



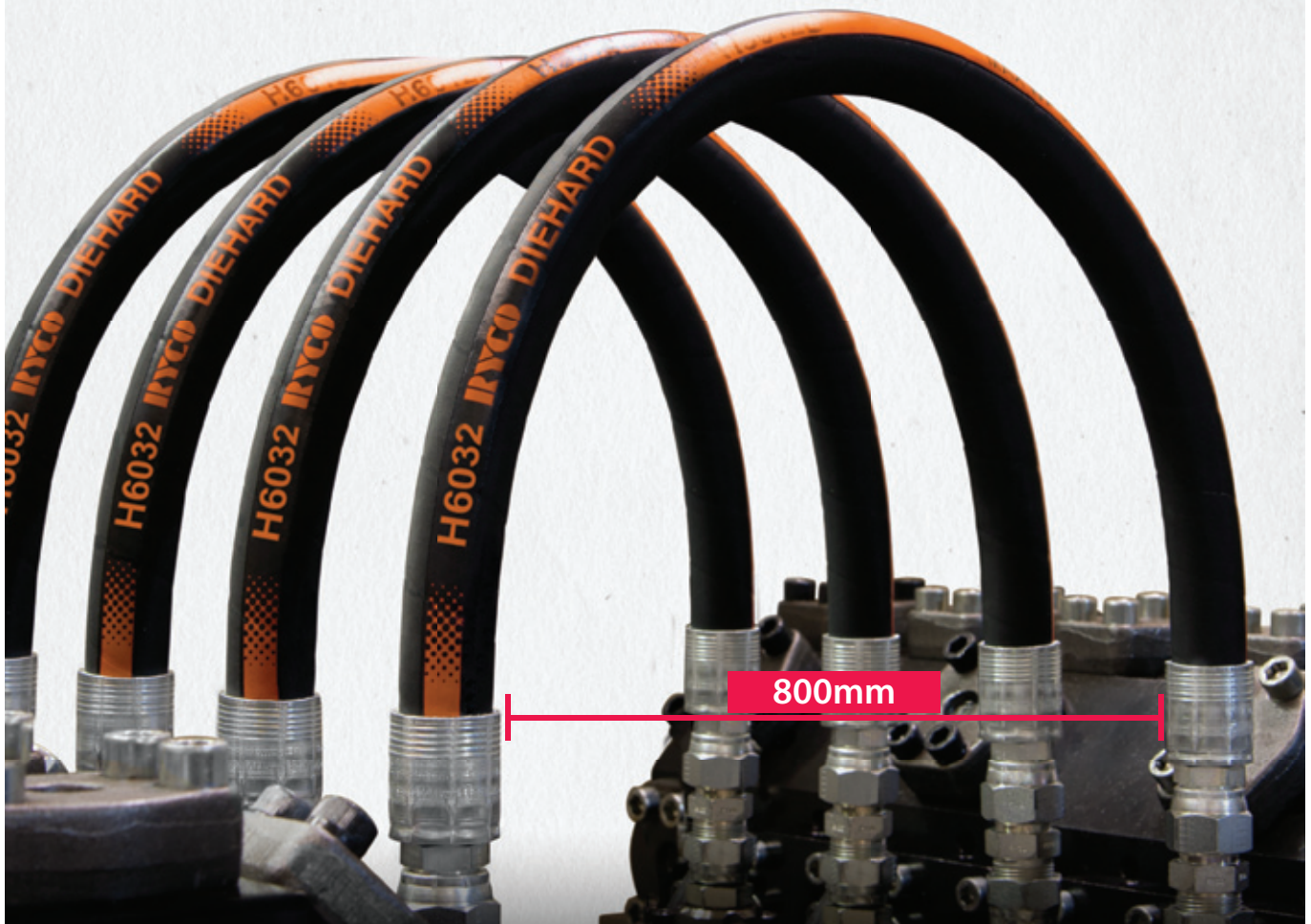
# RYCO

## ANOTHER WORLD FIRST

### H6032 - DN50 - 420 BAR

### 400mm BEND RADIUS

### 1,000,000 IMPULSE



#### FEATURES

- ✓ TIGHT BEND RADIUS
- ✓ 420 BAR/6100 PSI
- ✓ AVENGER™, DIEHARD™ & SLIDER™ COVERS
- ✓ AVAILABLE IN SIZES UP TO 2"

INTRODUCTION

HOSE

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RKVF / RKVP

ROTARY + DBB

TECHNICAL

# T3000D

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



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF: ISO 18752-AC  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**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.

**TUBE:**

Black, oil resistant synthetic rubber.

**REINFORCEMENT:**

One or two 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 T200 Series BITELOK Crimp Couplings.

**FEATURES:**

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.

**BEND RADIUS:**

Very small bend radius. 1/2 MBR (1/2 SAE Minimum Bend Radius) for easy installation. Allows for compact system designs; saves money.

**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:**

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

**WORKING PRESSURE:**

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

**COUPLINGS:**

**BITELOK NON-SKIVE ONE-PIECE CRIMP**

**T200 Series** (sizes -4 to -16).  
Assembly Instructions per RYCO Product Technical Manual.

T3000D – DIEHARD COMPACT ISOBARIC HOSE													
PART NO		HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T3004D	6	-04	6,4	1/4	11,8	0.46	245	3500	50	2.0	0,16	0.11	T200
T3006D	10	-06	9,5	3/8	15,6	0.61	215	3100	65	2.5	0,26	0.17	T200
T3008D	12	-08	12,7	1/2	19,0	0.75	215	3100	90	3.5	0,36	0.24	T200
T3012D	19	-12	19,0	3/4	27,2	1.07	215	3100	120	4.7	0,75	0.50	T200
T3016D	25	-16	25,4	1	37,2	1.46	215	3100	150	6.0	1,10	0.74	T200

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



# T3000S

EXTREMELY ABRASION RESISTANT  
COMPACT ISOBARIC HOSE  
215 BAR / 3100 PSI

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF: ISO 18752-AC  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

### RECOMMENDED FOR:

High pressure hydraulic oil lines, in applications where the outside cover of the hose is subject to extreme abrasion that may cause premature failure of standard hoses.

### TUBE:

Black, oil resistant synthetic rubber.

### REINFORCEMENT:

One or two braid of high tensile steel wire.

### COVER:

**SLIDER™** Black, oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame resistant & MSHA compliant. No skiving required with T200 Series BITELOK Crimp Couplings.

### FEATURES:

MSHA Fire Resistant & FRAS Anti-Static Covers  
Large selection of matched RYCO couplings  
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.

### BEND RADIUS:

Very small bend radius.  
1/2 MBR (1/2 SAE Minimum Bend Radius) for easy installation.  
Allows for compact system designs; saves money.

### 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:

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

### WORKING PRESSURE:

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

### COUPLINGS:

#### BITELOK NON-SKIVE ONE-PIECE CRIMP

**T200 Series** (sizes -4 to -16).

Assembly Instructions per RYCO Product Technical Manual.

T3000S - SLIDER COMPACT ISOBARIC HOSE													
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T3004S	6	-04	6,4	1/4	11,8	0.46	245	3500	50	2.0	0,16	0.11	T200
T3006S	10	-06	9,5	3/8	15,6	0.61	215	3100	65	2.5	0,26	0.17	T200
T3008S	12	-08	12,7	1/2	19,0	0.75	215	3100	90	3.5	0,36	0.24	T200
T3012S	19	-12	19,0	3/4	27,2	1.07	215	3100	120	4.7	0,75	0.50	T200
T3016S	25	-16	25,4	1	37,2	1.46	215	3100	150	6.0	1,10	0.74	T200

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

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# T4000D

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



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF: ISO 18752-AC  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**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.

**TUBE:**

Black, oil resistant synthetic rubber.

**REINFORCEMENT:**

One or two 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 T200 Series BITELOK Crimp Couplings.

**FEATURES:**

Constant Working Pressure 280 bar/4100 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

**BEND RADIUS:**

Very small bend radius.  
1/2 MBR (1/2 SAE Minimum Bend Radius) for easy installation. Allows for compact system designs; saves money.

**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:**

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

**WORKING PRESSURE:**

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

**COUPLINGS:**

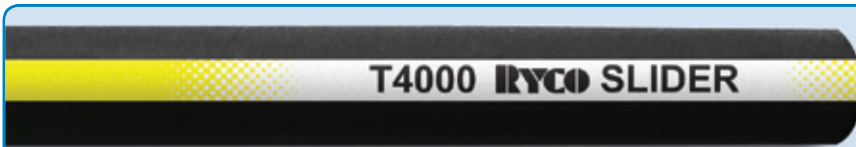
**BITELOK NON-SKIVE ONE-PIECE CRIMP**

**T200 Series** (sizes -4 to -12).

Assembly Instructions per RYCO Product Technical Manual.

T4000D - DIEHARD COMPACT ISOBARIC HOSE													
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
<b>T4004D</b>	6	<b>-04</b>	6,4	1/4	13,4	0.53	280	4100	50	6.0	0,28	0.19	T200
<b>T4006D</b>	10	<b>-06</b>	9,5	3/8	16,5	0.65	280	4100	65	2.6	0,36	0.24	T200
<b>T4008D</b>	12	<b>-08</b>	12,7	1/2	20,6	0.81	280	4100	90	3.5	0,51	0.34	T200
<b>T4012D</b>	19	<b>-12</b>	19,0	3/4	28,2	1.07	280	4100	120	4.7	0,94	0.63	T200

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



## T4000S

EXTREMELY ABRASION RESISTANT  
COMPACT ISOBARIC HOSE  
280 BAR / 4100 PSI

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF: ISO 18752-AC  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

### RECOMMENDED FOR:

High pressure hydraulic oil lines, in applications where the outside cover of the hose is subject to extreme abrasion that may cause premature failure of standard hoses.

### TUBE:

Black, oil resistant synthetic rubber

### REINFORCEMENT:

One or two braid of high tensile steel wire..

### COVER:

**SLIDER™** Black, oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame resistant & MSHA compliant. No skiving required with T200 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.

### BEND RADIUS:

Very small bend radius.

1/2 MBR (1/2 SAE Minimum Bend Radius) for easy installation.

Allows for compact system designs; saves money.

### 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:

-40°C to +100°C (-40°F to +212°F).

For water, emulsions, etc. contact RYCO.

### WORKING PRESSURE:

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

### COUPLINGS:

#### BITELOK NON-SKIVE ONE-PIECE CRIMP

**T200 Series** (sizes -4 to -12).

Assembly Instructions per RYCO Product Technical Manual.

T4000S - SLIDER COMPACT ISOBARIC HOSE													
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
<b>T4004S</b>	6	<b>-04</b>	6,4	1/4	13,4	0.53	280	4100	50	6.0	0,28	0.19	T200
<b>T4006S</b>	10	<b>-06</b>	9,5	3/8	16,5	0.65	280	4100	65	2.6	0,36	0.24	T200
<b>T4008S</b>	12	<b>-08</b>	12,7	1/2	20,6	0.81	280	4100	90	3.5	0,51	0.34	T200
<b>T4012S</b>	19	<b>-12</b>	19,0	3/4	28,2	1.07	280	4100	120	4.7	0,94	0.63	T200

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

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# T5000D

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



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF: ISO 18752-AC  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**RECOMMENDED FOR:**

Very 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.

**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 T200 Series BITELOK Crimp Couplings.

**FEATURES:**

Constant Working Pressure 350 bar/5100 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

**BEND RADIUS:**

Very small bend radius.  
1/2 MBR (1/2 SAE Minimum Bend Radius) for easy installation. Allows for compact system designs; saves money.

**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:**

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

**WORKING PRESSURE:**

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

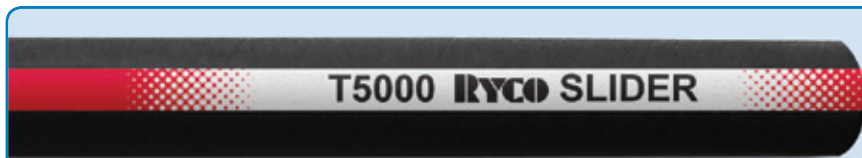
**COUPLINGS:**

**BITELOK NON-SKIVE ONE-PIECE CRIMP  
T200 Series** (sizes -4 to -8).  
Assembly Instructions per RYCO Product Technical Manual.

T5000D – DIEHARD COMPACT ISOBARIC HOSE													
PART NO		HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T5004D	6	-04	6,4	1/4	13,4	0.53	350	5100	50	2.0	0,28	0.19	T200
T5006D	10	-06	9,5	3/8	17,4	0.69	350	5100	65	2.6	0,41	0.28	T200
T5008D	12	-08	12,7	1/2	20,5	0.81	350	5100	90	3.5	0,55	0.37	T200

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





## T5000S

**EXTREMELY ABRASION RESISTANT  
COMPACT ISOBARIC HOSE  
350 BAR / 5100 PSI**

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF: ISO 18752-AC  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

### RECOMMENDED FOR:

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

### TUBE:

Black, oil resistant synthetic rubber

### REINFORCEMENT:

Two braids of high tensile steel wire.

### COVER:

**SLIDER™** Black, oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame resistant & MSHA compliant. No skiving required with T200 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.

### BEND RADIUS:

Very small bend radius.

1/2 MBR (1/2 SAE Minimum Bend Radius) for easy installation.

Allows for compact system designs; saves money.

### 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:

-40°C to +100°C (-40°F to +212°F).

For water, emulsions, etc. contact RYCO.

### WORKING PRESSURE:

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

### COUPLINGS:

#### BITELOK NON-SKIVE ONE-PIECE CRIMP

**T200 Series** (sizes -4 to -08).

Assembly Instructions per RYCO Product Technical Manual.

T5000S - SLIDER COMPACT ISOBARIC HOSE													
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T5004S	6	-04	6,4	1/4	13,4	0.53	350	5100	50	2.0	0,28	0.19	T200
T5006S	10	-06	9,5	3/8	17,4	0.69	350	5100	65	2.6	0,41	0.28	T200
T5008S	12	-08	12,7	1/2	20,5	0.81	350	5100	90	3.5	0,55	0.37	T200

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

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# T6000D

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



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF: ISO 18752-AC  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**RECOMMENDED FOR:**

Extremely high pressure hydraulic oil lines.

**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 T200 Series BITELOK Crimp Couplings.

**FEATURES:**

Constant Working Pressure 420 bar/6100 psi in all sizes. Small bend radius and compact dimensions are advantages in installations.

**BEND RADIUS:**

Very small bend radius.  
1/2 MBR (1/2 SAE Minimum Bend Radius) for easy installation. Allows for compact system designs; saves money.

**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:**

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







**WORKING PRESSURE:**

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

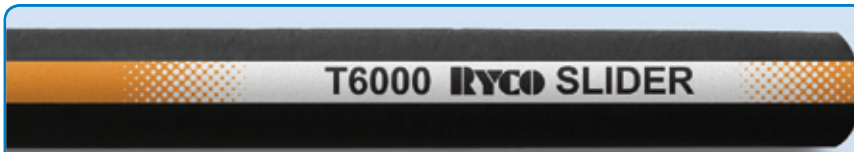
**COUPLINGS:**

**BITELOK NON-SKIVE ONE-PIECE CRIMP  
T200 Series.**

Assembly Instructions per RYCO Product Technical Manual.

T6000D – DIEHARD COMPACT ISOBARIC HOSE													
PART NO		HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
<b>T6004D</b>	6	<b>-04</b>	6,4	1/4	13,4	0.53	420	6100	50	2.0	0,28	0.19	T200
<b>T6006D</b>	10	<b>-06</b>	9,5	3/8	17,6	0.69	420	6100	65	2.6	0,47	0.32	T200

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



## T6000S

EXTREMELY ABRASION RESISTANT  
COMPACT ISOBARIC HOSE  
420 BAR / 6100 PSI

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF: ISO 18752-AC  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

### RECOMMENDED FOR:

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

### TUBE:

Black, oil resistant synthetic rubber.

### REINFORCEMENT:

Two braids of high tensile steel wire.

### COVER:

**SLIDER™** Black, oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame resistant & MSHA compliant. No skiving required with T200 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.

### BEND RADIUS:

Very small bend radius.

1/2 MBR (1/2 SAE Minimum Bend Radius) for easy installation.

Allows for compact system designs; saves money.

### 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:

-40°C to +100°C (-40°F to +212°F).

For water, emulsions, etc. contact RYCO.

### WORKING PRESSURE:

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

### COUPLINGS:

**BITELOK NON-SKIVE ONE-PIECE CRIMP T200 Series.**

Assembly Instructions per RYCO Product Technical Manual.

T6000S - SLIDER COMPACT ISOBARIC HOSE													
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T6004S	6	-04	6,4	1/4	13,4	0.53	420	6100	50	2.0	0,28	0.19	T200
T6006S	10	-06	9,5	3/8	17,6	0.69	420	6100	65	2.6	0,47	0.32	T200

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

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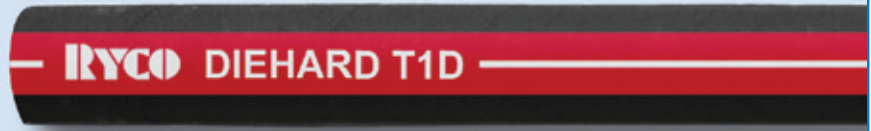
RKVF / RKVP

ROTARY + DBB

TECHNICAL

# T1D

**EXTRA ABRASION RESISTANT  
FRAS  
ONE WIRE BRAID HOSE**



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF SAE 100R1AT, AS 3791 100R1AT, DIN 20022-1SN, EN 853 TYPE 1SN, ISO 1436 TYPES R1AT & 1SN.  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**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.

**TUBE:**

Black, oil resistant synthetic rubber. (Nitrile).

**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 T200 & T700 Series BITELOK Crimp Couplings and K 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.

**BEND RADIUS:**

Very small bend radius up to 1" size.  
Smaller than SAE Minimum Bend Radius (up to 1" size) for easy installation.  
Allows for compact system designs; saves money.

**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. contact RYCO.

**WORKING PRESSURE:**

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

**COUPLINGS:**

**BITELOK NON-SKIVE ONE-PIECE CRIMP**

**T200 Series** (sizes -4 to -20).

**T700 Series** (sizes -6 to -32).

Assembly Instructions per RYCO Product Technical Manual.

**FIELD ATTACHABLE NON-SKIVE**

**K Series** (sizes -4 to -16).

Assembly Instructions per RYCO Product Technical Manual.

**FIELD ATTACHABLE SKIVE**

**A Series\*** ( sizes -20 to -32).

Assembly Instructions per RYCO Product Technical Manual.

**A SERIES SKIVE LENGTH:**


**Skive lengths for A series are as follows;**

**T120D:** 45mm, **T124D:** 49mm, **T132D:** 66mm

T1D - DIEHARD NON-SKIVE HOSE															
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	ONE PIECE	FIELD ATTACH	
<b>Hose</b>	<b>DN</b>	<b>Dash</b>	<b>mm</b>	<b>inch</b>	<b>mm</b>	<b>inch</b>	<b>bar</b>	<b>psi</b>	<b>mm</b>	<b>inch</b>	<b>kg/m</b>	<b>lb/ft</b>	<b>NON-SKIVE</b>	<b>600 SERIES</b>	
<b>T14D</b>	6	<b>-04</b>	6,4	1/4	13,4	0.53	225	3250	38	1.5	0,24	0.16	T200		K00
<b>T16D</b>	10	<b>-06</b>	9,5	3/8	17,4	0.69	180	2600	50	2.0	0,36	0.24	T200	T700	K00
<b>T18D</b>	12	<b>-08</b>	12,7	1/2	20,5	0.81	160	2300	75	3.0	0,45	0.30	T200	T700	K00
<b>T112D</b>	19	<b>-12</b>	19,1	3/4	27,6	1.09	105	1500	109	4.3	0,65	0.44	T200	T700	K00
<b>T116D</b>	25	<b>-16</b>	25,4	1	35,7	1.41	90	1300	140	5.5	0,96	0.65	T200	T700	K00
<b>T120D</b>	31	<b>-20</b>	31,8	1.1/4	43,6	1.72	65	945	419	16.5	1,32	0.89	T200	T700	*A00
<b>T124D</b>	38	<b>-24</b>	38,1	1.1/2	50,5	1.99	50	725	500	20.0	1,60	1.08		T700	*A00
<b>T132D</b>	51	<b>-32</b>	50,8	2	64,1	2.52	40	580	600	24.0	2,20	1.48		T700	*A00

\*When using A 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 T700 Series Couplings – refer to standard SAE Bend Radius with T700 Series. Contact RYCO for Crimp Diameter & Mark Length for BITELOK Couplings.



## T1S

**EXTREMELY ABRASION RESISTANT  
ONE WIRE BRAID HOSE**

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF SAE 100R1AT, AS 3791 100R1AT, DIN 20022-1SN, EN 853 TYPE 1SN, ISO 1436 TYPES R1AT & 1SN.  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**RECOMMENDED FOR:**

High pressure hydraulic oil lines, in applications where the outside cover of the hose is subject to extreme abrasion that may cause premature failure of standard hoses.

**TUBE:**

Black, oil resistant synthetic rubber. (Nitrile).

**REINFORCEMENT:**

One braid of high tensile steel wire.

**COVER:**

**SLIDER™** Black, oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame resistant & MSHA compliant. No skiving required with T200 & T700 Series BITELOK Crimp Couplings.

**FEATURES:**

The extremely high abrasion resistant properties of the polyethylene sheathed 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:**

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. contact RYCO.

**WORKING PRESSURE:**

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







**COUPLINGS:**

**BITELOK NON-SKIVE ONE-PIECE CRIMP**

**T200 Series** (sizes -4 to -20).

**T700 Series** (sizes -6 to -32).

Assembly Instructions per RYCO Product Technical Manual.

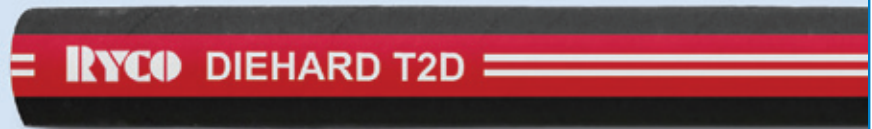
T1S - SLIDER ONE WIRE														
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
<b>Hose</b>	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
<b>T14S</b>	6	-04	6,4	1/4	15,0	0.59	420	6000	100	4.0	0,39	0.26	T200	
<b>T16S</b>	10	-06	9,5	3/8	19,0	0.75	350	5100	127	5.0	0,56	0.38	T200	T700
<b>T18S</b>	12	-08	12,7	1/2	22,0	0.87	350	5100	178	7.0	0,66	0.44	T200	T700
<b>T112S</b>	19	-12	19,1	3/4	29,1	1.15	215	3100	240	9.5	0,96	0.65	T200	T700
<b>T116S</b>	25	-16	25,4	1	37,7	1.48	167	2400	300	12.0	1,37	0.92	T200	T700
<b>T120S</b>	31	-20	31,8	1.1/4	48,0	1.89	125	1800	419	16.5	2,03	1.36	T200	T700
<b>T124S</b>	38	-24	38,1	1.1/2	54,4	2.14	90	1300	500	20.0	2,75	1.85		T700
<b>T132S</b>	51	-32	50,8	2	67,3	2.65	80	1150	600	24.0	3,48	2.35		T700

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# T2D

**EXTRA ABRASION RESISTANT  
FRAS  
TWO WIRE BRAID HOSE**



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF SAE 100R2AT, AS 3791 100R2AT, DIN 20022-2SN, EN 853 TYPE 2SN, ISO 1436 TYPE 2AT.  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**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.

**TUBE:**

Black, oil resistant synthetic rubber. (Nitrile).

**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 T200 & T700 Series BITELOK Crimp Couplings and L 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:**

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. contact RYCO.

**WORKING PRESSURE:**

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

**COUPLINGS:**

**BITELOK NON-SKIVE ONE-PIECE CRIMP**

**T200 Series** (sizes -4 to -20).

**T700 Series** (sizes -6 to -32).

Assembly Instructions per RYCO Product Technical Manual.

**Field Attachable NON-SKIVE**

**L Series** (sizes -4 to -20).

Assembly Instructions per RYCO Product Technical Manual.

**FIELD ATTACHABLE SKIVE**

**B Series\*** (sizes -24 & -32).

Assembly Instructions per RYCO Product Technical Manual.

**B SERIES SKIVE LENGTH:**

**SKIVE LENGTHS FOR B SERIES ARE AS FOLLOWS;**

**T224D:** 53mm

**T232D:** 58mm

T2D – DIEHARD NON-SKIVE HOSE														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
		mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	ONE PIECE	FIELD ATTACH	
<b>Hose</b>	<b>DN</b>	<b>Dash</b>	<b>mm</b>	<b>inch</b>	<b>mm</b>	<b>inch</b>	<b>bar</b>	<b>psi</b>	<b>mm</b>	<b>inch</b>	<b>kg/m</b>	<b>lb/ft</b>	<b>NON-SKIVE</b>	<b>600 SERIES</b>
<b>T24D</b>	6	<b>-04</b>	6,4	1/4	15,0	0.59	420	6000	100	4.0	0,39	0.26	T200	L00
<b>T26D</b>	10	<b>-06</b>	9,5	3/8	19,0	0.75	350	5100	127	5.0	0,57	0.38	T200	T700
<b>T28D</b>	12	<b>-08</b>	12,7	1/2	22,0	0.87	350	5100	178	7.0	0,66	0.44	T200	T700
<b>T212D</b>	19	<b>-12</b>	19,1	3/4	29,1	1.15	215	3100	240	9.5	0,96	0.65	T200	T700
<b>T216D</b>	25	<b>-16</b>	25,4	1	37,7	1.48	175	2540	300	12.0	1,37	0.92	T200	T700
<b>T220D</b>	31	<b>-20</b>	31,8	1.1/4	48,0	1.89	140	2030	419	16.5	2,03	1.36	T200	T700
<b>T224D</b>	38	<b>-24</b>	38,1	1.1/2	54,4	2.14	100	1450	500	20.0	2,75	1.85	T700	*B00
<b>T232D</b>	51	<b>-32</b>	50,8	2	67,3	2.65	90	1305	600	24.0	3,50	2.35	T700	*B00
<b>T240D</b>	63	<b>-40</b>	63,5	2.1/2	80,1	3.15	70	1000	760	30.0	3,78	2.54	T700, 1200 TWO-PIECE	
<b>T248D</b>	76	<b>-48</b>	76,2	3	91,3	3.59	70	1000	900	35.4	3,99	2.68	T700, 1200 TWO-PIECE	

\*When using B Series Field Attachable Couplings on T2D Series Hose, cover of hose must be skived at ends. Contact RYCO for Crimp Diameter and Mark Length for BITELOK Couplings.



## T2S

EXTREMELY ABRASION RESISTANT  
TWO WIRE BRAID HOSE

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF SAE 100R2AT, AS 3791 100R2AT, DIN 20022-2SN, EN 853 TYPE 2SN, ISO 1436 TYPE 2AT.  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

### RECOMMENDED FOR:

High pressure hydraulic oil lines, in applications where the outside cover of the hose is subject to extreme abrasion that may cause premature failure of standard hoses.

### TUBE:

Black, oil resistant synthetic rubber. (Nitrile).

### REINFORCEMENT:

Two braids of high tensile steel wire.

### COVER:

**SLIDER™** Black, oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame resistant & MSHA compliant. No skiving required with T200 & T700 Series BITELOK Crimp Couplings.

### FEATURES:

The extremely high abrasion resistant properties of the polyethylene sheathed 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:

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. contact RYCO.

### WORKING PRESSURE:

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

### COUPLINGS:

#### BITELOK NON-SKIVE ONE-PIECE CRIMP

**T200 Series** (sizes -4 to -20).

**T700 Series** (sizes -6 to -32).

Assembly Instructions per RYCO Product Technical Manual.

T2S – SLIDER NON-SKIVE HOSE														
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
<b>T24S</b>	6	<b>-04</b>	6,4	1/4	15,0	0.59	420	6000	100	4.0	0,39	0.26	T200	
<b>T26S</b>	10	<b>-06</b>	9,5	3/8	19,0	0.75	350	5100	127	5.0	0,56	0.38	T200	T700
<b>T28S</b>	12	<b>-08</b>	12,7	1/2	22,0	0.87	350	5100	178	7.0	0,66	0.44	T200	T700
<b>T212S</b>	19	<b>-12</b>	19,1	3/4	29,1	1.15	215	3100	240	9.5	0,96	0.65	T200	T700
<b>T216S</b>	25	<b>-16</b>	25,4	1	37,7	1.48	167	2400	300	12.0	1,37	0.92	T200	T700
<b>T220S</b>	31	<b>-20</b>	31,8	1.1/4	48,0	1.89	125	1800	419	16.5	2,03	1.36	T200	T700
<b>T224S</b>	38	<b>-24</b>	38,1	1.1/2	54,4	2.14	90	1300	500	20.0	2,75	1.85		T700
<b>T232S</b>	51	<b>-32</b>	50,8	2	67,3	2.65	80	1150	600	24.0	3,48	2.35		T700

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

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# H3000D

**EXTRA ABRASION RESISTANT  
FRAS  
ISOBARIC HOSE  
215 BAR / 3100 PSI**



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF:  
SAE100 R12, EN 856 TYPE R12 & EN 856 TYPE 4SP  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**RECOMMENDED FOR:**

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

**TUBE:**

Black, oil resistant synthetic rubber.

**REINFORCEMENT:**

Multiple 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 T700 Series BITELOK Crimp Couplings.

**FEATURES:**

Large selection of matched RYCO couplings.  
Constant pressure 215 bar/3100 psi in all sizes for easy system design and hose selection.  
Small bend radius is an advantages in installations.

**BEND RADIUS:**

Very small bend radius.  
2/3 MBR (2/3 SAE Minimum Bend Radius) for easy installation.  
Allows for compact system designs; saves money.

**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:**

-40°C to +121°C (-40°F to +250°F).  
For water, emulsions, etc. contact RYCO.







**WORKING PRESSURE:**

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

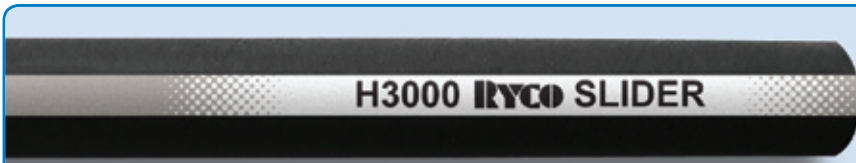
**COUPLINGS:**

**BITELOK NON-SKIVE ONE-PIECE CRIMP  
T700 Series.**

Assembly Instructions per RYCO Product Technical Manual.

H3000D - DIEHARD ISOBARIC SPIRAL HOSE													
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H3020D	31	-20	31,8	1.1/4	45,1	1.78	215	3100	200	8	2,35	1.57	T700
H3024D	38	-24	38,1	1.1/2	50,3	1.98	215	3100	330	13.0	2,33	1.57	T700
H3032D	51	-32	50,8	2	63,3	2.49	215	3100	400	15.7	3,40	2.28	T700

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



## H3000S

**EXTREMELY ABRASION RESISTANT  
ISOBARIC SPIRAL HOSE  
215 BAR / 3100 PSI**

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF:  
SAE100 R12, EN 856 TYPE R12 & EN 856 TYPE 4SP  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

### RECOMMENDED FOR:

High pressure hydraulic lines, in applications where the outside cover of the hose is subject to extreme abrasion that may cause premature failure of standard hoses.

### TUBE:

Black, oil resistant synthetic rubber.

### REINFORCEMENT:

Multiple alternating layers of spiralled high tensile steel wire.

### COVER:

**SLIDER™** Black, oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame resistant & MSHA compliant. No skiving required with T700 Series BITELOK Crimp Couplings.

### FEATURES:

Large selection of matched RYCO couplings.  
Constant pressure 215 bar/3100 psi in all sizes for easy system design and hose selection.  
Small bend radius is an advantages in installations.

### BEND RADIUS:

Very small bend radius.  
2/3 MBR (2/3 SAE Minimum Bend Radius) for easy installation.  
Allows for compact system designs; saves money.

### 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:

-40°C to +121°C (-40°F to +250°F).  
For water, emulsions, etc. contact RYCO.

### WORKING PRESSURE:

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

### COUPLINGS:

**BITELOK NON-SKIVE ONE-PIECE CRIMP  
T700 Series.**

Assembly Instructions per RYCO Product Technical Manual.

H3000S – SLIDER ISOBARIC SPIRAL HOSE													
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H3020S	31	-20	31,8	1.1/4	45,1	1.78	215	3100	200	8	2,35	1.57	T700
H3024S	38	-24	38,1	1.1/2	50,3	1.98	215	3100	330	13.0	2,33	1.57	T700
H3032S	51	-32	50,8	2	63,3	2.49	215	3100	400	15.7	3,40	2.28	T700

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

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SUPERLOK

RKVF / RKVP

ROTARY + DBB

TECHNICAL

# H400D

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



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF:  
SAE100 R12, EN 856 TYPE R12 & EN 856 TYPE 4SP (SIZE DN25, -16)  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**RECOMMENDED FOR:**

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

**TUBE:**

Black, oil resistant synthetic rubber.

**REINFORCEMENT:**

Multiple 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 T700 Series BITELOK Crimp Couplings.

**FEATURES:**

Large selection of matched RYCO couplings.  
Constant pressure 280 bar/4100 psi in all sizes for easy system design and hose selection.  
Small bend radius is an advantages in installations.

**BEND RADIUS:**

Very small bend radius.  
2/3 MBR (2/3 SAE Minimum Bend Radius) for easy installation.  
Allows for compact system designs; saves money.

**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:**

-40°C to +121°C (-40°F to +250°F).  
For water, emulsions, etc. contact RYCO.

**WORKING PRESSURE:**

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

**COUPLINGS:**

**BITELOK NON-SKIVE ONE-PIECE CRIMP  
T700 Series.**

Assembly Instructions per RYCO Product Technical Manual.

H400D - DIEHARD ISOBARIC SPIRAL HOSE													
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H4008D	12	-08	12,7	1/2	22,7	0.89	280	4100	120	4.7	0,78	0.52	T700
H4010D	16	-10	15,9	5/8	24,9	0.98	280	4100	130	5.1	0,95	0.64	T700
H4012D	19	-12	19,1	3/4	30,0	1.18	280	4100	160	6.3	1,14	0.77	T700
H4016D	25	-16	25,4	1	36,9	1.45	280	4100	200	7.9	1,68	1.13	T700
H4020D	31	-20	31,8	1.1/4	44,0	1.73	280	4100	265	10.4	2,07	1.39	T700
H4024D	38	-24	38,1	1.1/2	50,8	2.00	280	4100	330	13.0	2,65	1.78	T700
H4032D	51	-32	50,8	2	65,2	2.57	280	4100	400	15.7	4,30	2.89	T700

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





## H400S

EXTREMELY ABRASION RESISTANT  
ISOBARIC SPIRAL HOSE  
280 BAR / 4100 PSI

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF:  
SAE100 R12, EN 856 TYPE R12 & EN 856 TYPE 4SP (SIZE DN25, -16)  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

### RECOMMENDED FOR:

High pressure hydraulic lines, in applications where the outside cover of the hose is subject to extreme abrasion that may cause premature failure of standard hoses.

### TUBE:

Black, oil resistant synthetic rubber.

### REINFORCEMENT:

Multiple alternating layers of spiralled high tensile steel wire.

### COVER:

**SLIDER™** Black, oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame resistant & MSHA compliant. No skiving required with T700 Series BITELOK Crimp Couplings.

### FEATURES:

Large selection of matched RYCO couplings.  
Constant pressure 280 bar/4100 psi in all sizes for easy system design and hose selection.  
Small bend radius is an advantages in installations.

### BEND RADIUS:

Very small bend radius.  
2/3 MBR (2/3 SAE Minimum Bend Radius) for easy installation.  
Allows for compact system designs; saves money.

### 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:

-40°C to +121°C (-40°F to +250°F).  
For water, emulsions, etc. contact RYCO.

### WORKING PRESSURE:

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

### COUPLINGS:

**BITELOK NON-SKIVE ONE-PIECE CRIMP T700 Series.**

Assembly Instructions per RYCO Product Technical Manual.

H400S - SLIDER ISOBARIC SPIRAL HOSE													
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
H4008S	12	-08	12,7	1/2	22,7	0.89	280	4100	120	4.7	0,78	0.52	T700
H4010S	16	-10	15,9	5/8	24,9	0.98	280	4100	130	5.1	0,95	0.64	T700
H4012S	19	-12	19,1	3/4	30,0	1.18	280	4100	160	6.3	1,14	0.77	T700
H4016S	25	-16	25,4	1	36,9	1.45	280	4100	200	7.9	1,68	1.13	T700
H4020S	31	-20	31,8	1.1/4	44,0	1.73	280	4100	265	10.4	2,07	1.39	T700
H4024S	38	-24	38,1	1.1/2	50,8	2.00	280	4100	330	13.0	2,65	1.78	T700
H4032S	51	-32	50,8	2	65,2	2.57	280	4100	400	15.7	4,30	2.89	T700

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

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# H5000D

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



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF:  
SAE100 R13 AND EN 856 R13  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**RECOMMENDED FOR:**

Very high pressure hydraulic lines in applications where the outside cover of the hose is subjected to abrasion that may cause premature failure of standard hoses.

**TUBE:**

Black, oil resistant synthetic rubber.

**REINFORCEMENT:**

Multiple 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 T700 Series BITELOK Crimp Couplings.

**FEATURES:**

Large selection of matched RYCO couplings.  
Constant pressure 350 bar/5100 psi in all sizes for easy system design and hose selection.  
Small bend radius is an advantages in installations.

**BEND RADIUS:**

Very small bend radius.  
2/3 MBR (2/3 SAE Minimum Bend Radius) for easy installation.  
Allows for compact system designs; saves money.

**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:**

-40°C to +121°C (-40°F to +250°F).  
For water, emulsions, etc. contact RYCO.

**WORKING PRESSURE:**

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







**COUPLINGS:**

**BITELOK NON-SKIVE ONE-PIECE CRIMP**

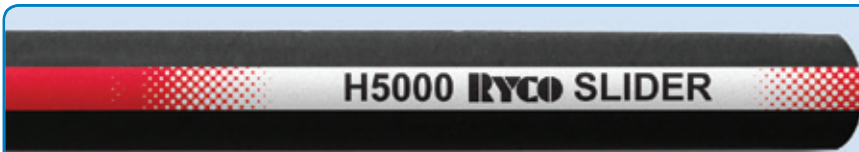
**T700 Series** (sizes -12 to -20).

**T900 Series** (sizes -24 to -32).

Assembly Instructions per RYCO Product Technical Manual.

H5000D - DIEHARD ISOBARIC SPIRAL HOSE														
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
H5006D	10	-06	9,5	3/8	19,3	0.76	350	5100	85	3.3	0,61	0.41	T700	
H5008D	12	-08	12,7	1/2	22,7	0.89	350	5100	120	4.7	0,78	0.52	T700	
H5012D	19	-12	19,1	3/4	29,6	1.17	350	5100	160	6.3	1,21	0.81	T700	
H5016D	25	-16	25,4	1	36,8	1.45	350	5100	200	7.9	1,72	1.16	T700	
H5020D	31	-20	31,8	1.1/4	45,0	1.77	350	5100	265	10.4	2,42	1.63	T700	
H5024D	38	-24	38,1	1.1/2	51,8	2.04	350	5100	330	13.0	3,17	2.13		T900
H5032D	51	-32	50,8	2	67,5	2.66	350	5100	400	15.7	5,40	3.63		T900

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



## H5000S

EXTREMELY ABRASION RESISTANT  
350 BAR / 5100 PSI  
ISOBARIC SPIRAL HOSE

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF:  
SAE100 R13 AND EN 856 R13  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

### RECOMMENDED FOR:

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

### TUBE:

Black, oil resistant synthetic rubber.

### REINFORCEMENT:

Multiple alternating layers of spiralled high tensile steel wire.

### COVER:

**SLIDER™** Black, oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame resistant & MSHA compliant. No skiving required with T700 Series BITELOK Crimp Couplings.

### FEATURES:

Large selection of matched RYCO couplings.  
Constant pressure 350 bar/5100 psi in all sizes for easy system design and hose selection.  
Small bend radius is an advantages in installations.

### BEND RADIUS:

Very small bend radius.  
2/3 MBR (2/3 SAE Minimum Bend Radius) for easy installation.  
Allows for compact system designs; saves money.

### 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:

-40°C to +121°C (-40°F to +250°F).  
For water, emulsions, etc. contact RYCO.

### WORKING PRESSURE:

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

### COUPLINGS:

#### BITELOK NON-SKIVE ONE-PIECE CRIMP

**T700 Series** (sizes -12 to -20).

**T900 Series** (sizes -24 to -32).

Assembly Instructions per RYCO Product Technical Manual.

H5000S – SLIDER ISOBARIC SPIRAL HOSE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
PART NO	HOSE SIZE	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	
H5006S	10 -06	9,5	3/8	19,3	0.76	350	5100	85	3.3	0,61	0.41	T700	
H5008S	12 -08	12,7	1/2	22,7	0.89	350	5100	120	4.7	0,78	0.52	T700	
H5012S	19 -12	19,1	3/4	29,6	1.17	350	5100	160	6.3	1,21	0.81	T700	
H5016S	25 -16	25,4	1	36,8	1.45	350	5100	200	7.9	1,72	1.16	T700	
H5020S	31 -20	31,8	1.1/4	45,0	1.77	350	5100	265	10.4	2,42	1.63	T700	
H5024S	38 -24	38,1	1.1/2	51,8	2.04	350	5100	330	13.0	3,17	2.13		T900
H5032S	51 -32	50,8	2	67,5	2.66	350	5100	400	15.7	5,40	3.63		T900

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

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# H6000D

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



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF:  
SAE100 R15 AND EN 856 R15  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**RECOMMENDED FOR:**

Extremely high pressure hydraulic lines in applications where the outside cover of the hose is subjected to abrasion that may cause premature failure of standard hoses.

**TUBE:**

Black, oil resistant synthetic rubber.

**REINFORCEMENT:**

Multiple 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 T700 Series BITELOK Crimp Couplings.

**FEATURES:**

Constant pressure 420 bar/6100 psi in all sizes for easy system design and hose selection.  
Small bend radius is an advantages in installations.

**BEND RADIUS:**

Very small bend radius.  
2/3 MBR (2/3 SAE Minimum Bend Radius) for easy installation.  
Allows for compact system designs; saves money.

**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:**

-40°C to +121°C (-40°F to +250°F).  
For water, emulsions, etc. contact RYCO.

**WORKING PRESSURE:**

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

**COUPLINGS:**

**BITELOK NON-SKIVE ONE-PIECE CRIMP**

**T700 Series** (sizes -06 to -12).

**T900 Series** (sizes -16 to -24).

Assembly Instructions per RYCO Product Technical Manual.

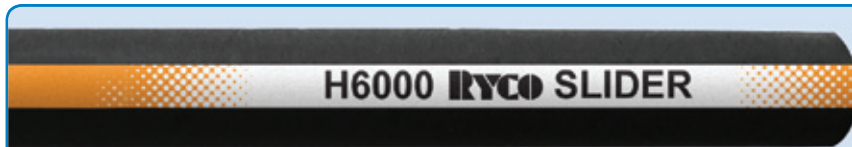
**BITELOK SKIVE TWO-PIECE CRIMP**

**6900N Series** (sizes -24 to -32).

Assembly Instructions per RYCO Product Technical Manual.

H6000D - DIEHARD ISOBARIC SPIRAL HOSE													
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES	
		mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	ONE PIECE	TWO PCE
<b>H6006D</b>	10 -06	9,5	3/8	19,3	0.76	420	6100	85	3.3	0,61	0.41	T700	
<b>H6008D</b>	12 -08	12,7	1/2	22,7	0.89	420	6100	120	4.7	0,78	0.52	T700	
<b>H6012D</b>	19 -12	19,1	3/4	30,6	1.20	420	6100	165	6.5	1,38	0.93	T700	
<b>H6016D</b>	25 -16	25,4	1	37,5	1.48	420	6100	220	8.7	1,99	1.34		T900
<b>H6020D</b>	31 -20	31,8	1.1/4	45,2	1.78	420	6100	295	11.6	2,72	1.83		T900
<b>H6024D</b>	38 -24	38,1	1.1/2	53,1	2.09	420	6100	350	13.8	3,85	2.59		T900 6900N
<b>H6032D</b>	51 -32	50,8	2	71,5	2.81	420	6100	400	15.7	7,10	4.77		6900N

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



## H6000S

EXTREMELY ABRASION RESISTANT  
ISOBARIC SPIRAL HOSE  
420 BAR / 6100 PSI

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF:  
SAE100 R15 AND EN 856 R15  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

### RECOMMENDED FOR:

Extremely high pressure hydraulic lines, in applications where the outside cover of the hose is subject to extreme abrasion that may cause premature failure of standard hoses.

### TUBE:

Black, oil resistant synthetic rubber.

### REINFORCEMENT:

Multiple alternating layers of spiralled high tensile steel wire.

### COVER:

**SLIDER™** Black, oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame resistant & MSHA compliant. No skiving required with T700 Series BITELOK Crimp Couplings.

### FEATURES:

Large selection of matched RYCO couplings.  
Constant pressure 420 bar/6100 psi in all sizes for easy system design and hose selection.  
Small bend radius is an advantages in installations.

### BEND RADIUS:

Very small bend radius.  
2/3 MBR (2/3 SAE Minimum Bend Radius) for easy installation.  
Allows for compact system designs; saves money.

### 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:

-40°C to +121°C (-40°F to +250°F).  
For water, emulsions, etc. contact RYCO.

### WORKING PRESSURE:

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

### COUPLINGS:

#### BITELOK NON-SKIVE ONE-PIECE CRIMP

**T700 Series** (sizes -06 to -12).

**T900 Series** (sizes -16 to -24).

Assembly Instructions per RYCO Product Technical Manual.

#### BITELOK SKIVE TWO-PIECE CRIMP

**6900N Series** (sizes -24 to -32).

Assembly Instructions per RYCO Product Technical Manual.

H6000S – SLIDER ISOBARIC SPIRAL HOSE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
PART NO	HOSE SIZE	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	ONE PIECE	TWO PCE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	SKIVE
H6006S	10	-06	9,5	3/8	19,3	0.76	420	6100	85	3.3	0,61	0.41	T700	
H6008S	12	-08	12,7	1/2	22,7	0.89	420	6100	120	4.7	0,78	0.52	T700	
H6012S	19	-12	19,1	3/4	30,6	1.20	420	6100	165	6.5	1,38	0.93	T700	
H6016S	25	-16	25,4	1	37,5	1.48	420	6100	220	8.7	1,99	1.34		T900
H6020S	31	-20	31,8	1.1/4	45,2	1.78	420	6100	295	11.6	2,72	1.83		T900
H6024S	38	-24	38,1	1.1/2	53,1	2.09	420	6100	350	13.8	3,85	2.59		T900
H6032S	51	-32	50,8	2	71,5	2.81	420	6100	400	15.7	7,10	4.77		6900N

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

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# H12D

**EXTRA ABRASION RESISTANT  
VERY HIGH PRESSURE  
FRAS  
MULTI-SPIRAL HOSE**



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF SAE 100R12, AS 3791 100R12, EN 856 TYPE R12, EN 856 TYPE 4SP (-12 AND ABOVE), ISO 3862 TYPE R12.  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**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.

**TUBE:**

Black, oil resistant synthetic rubber.

**REINFORCEMENT:**

Multiple 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 T700 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:**

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. contact RYCO.

**WORKING PRESSURE:**







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

**COUPLINGS:**

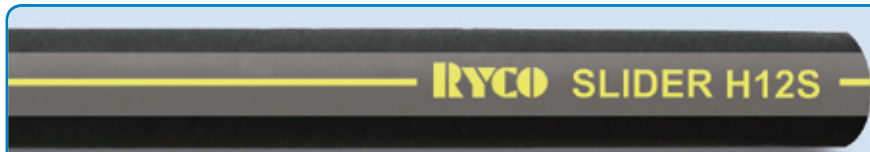
**BITELOK NON-SKIVE ONE-PIECE CRIMP**

**T700 Series** (sizes -06 to -40).

Assembly Instructions per RYCO Product Technical Manual.

H12D – DIEHARD SPIRAL HOSE														
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES	
	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	ONE PIECE	TWO PIECE
<b>H1206D</b>	10	<b>-06</b>	9,5	3/8	20,2	0.80	350	5100	127	5.0	0,65	0.44	T700	
<b>H1208D</b>	12	<b>-08</b>	12,7	1/2	23,8	0.94	350	5100	178	7.0	0,80	0.54	T700	
<b>H1210D</b>	16	<b>-10</b>	16,0	5/8	28,2	1.11	350	5100	200	8.0	1,16	0.78	T700	
<b>H1212D</b>	19	<b>-12</b>	19,1	3/4	30,7	1.21	350	5100	240	9.5	1,27	0.85	T700	
<b>H1216D</b>	25	<b>-16</b>	25,4	1	38,0	1.50	350	5100	300	12.0	1,91	1.28	T700	
<b>H1220D</b>	31	<b>-20</b>	31,8	1.1/4	47,0	1.85	275	4000	400	16.0	2,65	1.78	T700	
<b>H1224D</b>	38	<b>-24</b>	38,1	1.1/2	53,5	2.11	255	3700	500	20.0	3,40	2.28	T700	
<b>H1232D</b>	51	<b>-32</b>	50,8	2	66,7	2.63	210	3050	600	24.0	4,50	3.02	T700	
<b>H1240D</b>	63	<b>-40</b>	63,5	2.1/2	82,6	3.25	140	2000	650	26.0	5,20	3.48	T700	

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



## H12S

**EXTREMELY ABRASION RESISTANT  
VERY HIGH PRESSURE  
MULTI-SPIRAL HOSE**

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF SAE 100R12, AS 3791 100R12, EN 856 TYPE R12, EN 856 TYPE 4SP (-12 AND ABOVE), ISO 3862 TYPE R12.  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

### RECOMMENDED FOR:

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

### TUBE:

Black, oil resistant synthetic rubber.

### REINFORCEMENT:

Multiple alternating layers of spiralled high tensile steel wire.

### COVER:

**SLIDER™** Black, oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame resistant & MSHA compliant. No skiving required with T700 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.

### 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 +121°C (-40°F to +250°F).  
For water, emulsions etc. contact RYCO.

### WORKING PRESSURE:

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

### COUPLINGS:

#### BITELOK NON-SKIVE ONE-PIECE CRIMP

**T700 Series** (sizes -06 to -32).

Assembly Instructions per RYCO Product Technical Manual.

H12S - SLIDER SPIRAL HOSE														
PART NO	HOSE SIZE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES	
	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	ONE PIECE	TWO PIECE
<b>H1206S</b>	10	<b>-06</b>	9,5	3/8	20,2	0.80	350	5100	127	5.0	0,65	0.44	T700	
<b>H1208S</b>	12	<b>-08</b>	12,7	1/2	23,8	0.94	350	5100	178	7.0	0,80	0.54	T700	
<b>H1210S</b>	16	<b>-10</b>	16,0	5/8	28,2	1.11	350	5100	200	8.0	1,16	0.78	T700	
<b>H1212S</b>	19	<b>-12</b>	19,1	3/4	30,7	1.21	350	5100	240	9.5	1,27	0.85	T700	
<b>H1216S</b>	25	<b>-16</b>	25,4	1	38,0	1.50	350	5100	300	12.0	1,91	1.28	T700	
<b>H1220S</b>	31	<b>-20</b>	31,8	1.1/4	47,0	1.85	275	4000	400	16.0	2,65	1.78	T700	
<b>H1224S</b>	38	<b>-24</b>	38,1	1.1/2	53,5	2.11	255	3700	500	20.0	3,40	2.28	T700	
<b>H1232S</b>	51	<b>-32</b>	50,8	2	66,7	2.63	210	3050	600	24.0	4,50	3.02	T700	

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

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# H13D

**EXTRA ABRASION RESISTANT  
EXTREMELY HIGH PRESSURE  
FRAS  
MULTI-SPIRAL HOSE**



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF  
SAE 100R13, AS 3791 100R13, EN 856 TYPE R13, ISO 3862 TYPE R13.  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**RECOMMENDED FOR:**

Extremely 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.

**TUBE:**

Black, oil resistant synthetic rubber.

**REINFORCEMENT:**

Multiple 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 T900 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 100R13 test conditions, result in increased service life and minimise equipment downtime.

**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 +121°C (-40°F to +250°F).  
For water, emulsions etc. contact RYCO.

**WORKING PRESSURE:**

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

**COUPLINGS:**

**BITELOK NON-SKIVE ONE-PIECE CRIMP**

**T900 Series** (sizes -12 to -32).  
Assembly Instructions per RYCO Product Technical Manual.

**BITELOK SKIVE ONE-PIECE CRIMP**

**T700 Series** (sizes -12 to -20).  
Assembly Instructions per RYCO Product Technical Manual.

**BITELOK SKIVE TWO-PIECE CRIMP**

**6900K Series** (sizes -20 to -32).  
**6900N Series** (sizes -32 to -40).  
**6900T Series** (size -32).  
Assembly Instructions per RYCO Product Technical Manual.

H13D – DIEHARD SPIRAL HOSE														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
		mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	ONE PIECE	2-PIECE	
<b>H1312D</b>	19 -12	19,1	3/4	32,1	1.26	350	5100	240	9.5	1,65	1.11	T900	T700	
<b>H1316D</b>	25 -16	25,4	1	38,7	1.52	350	5100	300	12.0	2,28	1.53	T900	T700	
<b>H1320D</b>	31 -20	31,8	1.1/4	49,8	1.96	350	5100	419	16.5	3,60	2.42	T900	T700	6900K/N
<b>H1324D</b>	38 -24	38,1	1.1/2	57,3	2.26	350	5100	500	20.0	4,95	3.33	T900		6900K/N
<b>H1332D</b>	51 -32	50,8	2	72,0	2.83	350	5100	630	25.0	7,00	4.69	T900		6900K/N/T
<b>H1340D</b>	63 -40	63,5	2.1/2	87,5	3.40	350	5100	800	31.5	8,96	6.00			6900N

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



## H13S

**EXTREMELY ABRASION RESISTANT  
EXTREMELY HIGH PRESSURE  
MULTI-SPIRAL HOSE**

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF  
SAE 100R13, AS 3791 100R13, EN 856 TYPE R13, ISO 3862 TYPE R13.  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

### RECOMMENDED FOR:

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

### TUBE:

Black, oil resistant synthetic rubber.

### REINFORCEMENT:

Multiple alternating layers of spiralled high tensile steel wire.

### COVER:

**SLIDER™** Black, oil and abrasion resistant synthetic rubber sheathed with a layer of extremely abrasion resistant polyethylene. Flame resistant & MSHA compliant. No skiving required with T900, T700 and 6900 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 100R13 test conditions, result in increased service life and minimise equipment downtime.

### 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 +121°C (-40°F to +250°F).  
For water, emulsions etc. contact RYCO.

### WORKING PRESSURE:

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

### COUPLINGS:

#### BITELOK NON-SKIVE ONE-PIECE CRIMP

**T900 Series** (sizes -12 to -32).

Assembly Instructions per RYCO Product Technical Manual.

#### BITELOK SKIVE ONE-PIECE CRIMP

**T700 Series** (sizes -12 to -20).

Assembly Instructions per RYCO Product Technical Manual.

#### BITELOK SKIVE TWO-PIECE CRIMP

**6900K Series** (sizes -20 to -32).

**6900N Series** (size -32).

**6900T Series** (size -32).

Assembly Instructions per RYCO Product Technical Manual.

H13S - SLIDER SPIRAL HOSE															
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES			
		mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	ONE PIECE	2-PIECE		
<b>H1312S</b>	19	<b>-12</b>	19,1	3/4	15,0	0.59	350	5100	240	9.5	1,65	1.11	T900	T700	
<b>H1316S</b>	25	<b>-16</b>	25,4	1	19,0	0.75	350	5100	300	12.0	2,28	1.53	T900	T700	
<b>H1320S</b>	31	<b>-20</b>	31,8	1.1/4	22,0	0.87	350	5100	419	16.5	3,60	2.42	T900	T700	6900K/N
<b>H1324S</b>	38	<b>-24</b>	38,1	1.1/2	25,2	0.99	350	5100	500	20.0	4,95	3.33	T900		6900K/N
<b>H1332S</b>	51	<b>-32</b>	50,8	2	29,1	1.15	350	5100	630	25.0	7,00	4.69	T900		6900K/N/T

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

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# H15D

**EXTRA ABRASION RESISTANT  
6000 PSI WORKING PRESSURE  
FRAS  
MULTI-SPIRAL HOSE**



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF SAE 100R15, ISO 3862 TYPE R15. NOTE: H1532D SIZE IS NOT INCLUDED IN THE ABOVE STANDARDS. Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**RECOMMENDED FOR:**

Extremely 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.

**TUBE:**

Black, oil resistant rubber. (Neoprene).

**REINFORCEMENT:**

Multiple 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 T200 Series BITELOK Crimp Couplings.

**FEATURES:**

Maximum Working Pressure of 420 bar/6000 psi in all sizes. The very high abrasion resistant properties of the cover, combined with the extra high working pressures and excellent impulse life, when tested to SAE 100R15 test conditions, result in increased service life and minimise equipment downtime.

**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 +121°C (-40°F to +250°F).  
For water, emulsions, etc. contact RYCO.

**WORKING PRESSURE:**

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

**COUPLINGS:**

**BITELOK INTERLOK SKIVE TWO-PIECE CRIMP 6900N Series** (sizes -12 to -32).







**Internal and External Skiving equipment required.**

Assembly Instructions per RYCO Product Technical Manual.

**BITELOK NON-SKIVE ONE-PIECE CRIMP**

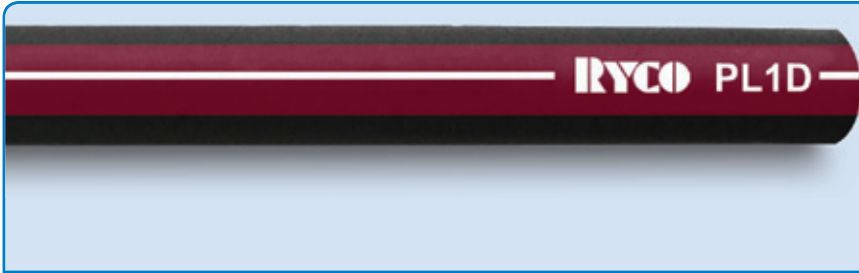
**T900 Series** (sizes -16 and -20).

Assembly Instructions per RYCO Product Technical Manual.

H15D – DIEHARD 6000 PSI SPIRAL HOSE														
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES		
		mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	ONE PIECE	TWO PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE	SKIVE
H1512D	19	-12	19,1	3/4	32,0	1.26	420	6000	265	10.5	1,50	1.01		6900N
H1516D	25	-16	25,4	1	38,2	1.50	420	6000	330	13.0	2,10	1.41	T900	6900N
H1520D	31	-20	31,8	1.1/4	49,8	1.96	420	6000	445	17.5	3,60	2.42	T900	6900N
H1524D	38	-24	38,1	1.1/2	57,2	2.25	420	6000	530	21.0	5,10	3.43		6900N
H1532D	51	-32	50,8	2	71,8	2.83	420	6000	600	23.6	6,70	4.50		6900N

Contact RYCO for Crimp Diameter and Internal and External Skive Lengths for RYCO Interlok 6900N Two-Piece Couplings.





# 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.

**TUBE:**

Black, oil resistant synthetic rubber. (Nitrile).

**REINFORCEMENT:**

One textile braid.

**COVER:**

Black, oil and abrasion resistant synthetic rubber.

**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, water/oil emulsions, diesel fuels, glycol and air etc. contact RYCO.

**WORKING 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**

**T400 Series** (sizes -4 to -12).

Assembly Instructions per RYCO Product Technical Manual.

**FIELD ATTACHABLE NON-SKIVE**

**800 Series Push-On** (sizes -4 to -12).

Assembly Instructions per RYCO Product Technical Manual.

PL1D - DESCRIPTION														COUPLING SERIES		
PART NO	HOSE SIZE	NOMINAL HOSE ID	NOMINAL HOSE OD	MAXIMUM STATIC WORKING PRESSURE	MINIMUM BEND RADIUS	VACUUM RATING	AVERAGE WEIGHT	ONE PIECE	PUSH-ON					NON-SKIVE		
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft	NON-SKIVE	
PL14D	6	-04	6,4	1/4	12,7	0.50	21	300	75	3.0	710	28	0,12	0.08	T400	800
PL15D	8	-05	8,0	5/16	14,3	0.56	21	300	75	3.0	710	28	0,15	0.10	T400	800
PL16D	10	-06	9,5	3/8	15,9	0.63	21	300	75	3.0	635	25	0,17	0.11	T400	800
PL18D	12	-08	12,7	1/2	19,8	0.78	21	300	125	5.0	460	18	0,23	0.15	T400	800
PL110D	16	-10	16,0	5/8	23,0	0.91	21	300	150	6.0	380	15	0,29	0.19	T400	800
PL112D	19	-12	19,1	3/4	26,4	1.04	21	300	175	6.9	380	15	0,36	0.24	T400	800

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

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# SRF

COMPACT  
HALF SAE BEND RADIUS  
SUCTION & RETURN HOSE



MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF  
SAE 100R4, AS 3791 100R4.  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

**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. (Tighter Bend Radius than SAE 100R4)

**TUBE:**

Black, oil resistant synthetic rubber. (Nitrile).

**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. contact RYCO.

**WORKING PRESSURE:**

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

**3300 SERIES COUPLINGS WITH RSC CLAMP**

**3300 Series** (sizes -12 to -40).

3300 Series Couplings require a suitable clamp around the outside of the hose.

Refer to RYCO RSC Clamps shown below.

Assembly Instructions per RYCO Product Technical Manual.

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

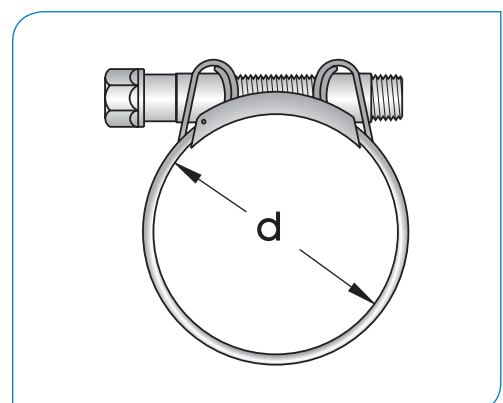
**BITELOK NON-SKIVE ONE-PIECE CRIMP**

**T400 Series** (sizes -12 to -32).

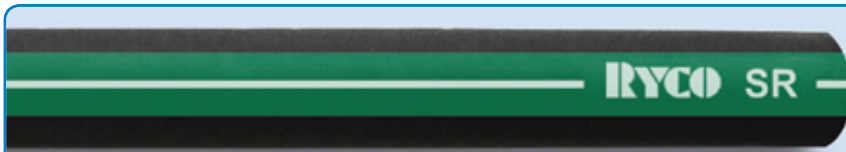
Assembly Instructions per RYCO Product Technical Manual.

SRF – DEFIANT COMPACT SUCTION AND RETURN HOSE													
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT	
	DN Dash	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
SRF12	19 -12	19,0	3/4	31,5	1.24	21	300	63	2.5	635	25	0,82	0.55
SRF16	25 -16	25,4	1	40,0	1.57	17	250	75	3.0	635	25	1,00	0.67
SRF20	31 -20	31,8	1.1/4	46,5	1.38	14	200	100	4.0	635	25	1,19	0.80
SRF24	38 -24	38,1	1.1/2	53,1	2.09	10	150	125	5.0	635	25	1,39	0.93
SRF32	51 -32	50,8	2	65,5	2.56	7	100	150	6.0	635	25	1,94	1.30

HOSE PART NO	CLAMP PART NO	CLAMP ADJUSTMENT RANGE	RECOMMENDED TIGHTENING TORQUE		
		d mm	Nm	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	



\*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.



# SR

## SUCTION & RETURN HOSE

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF SAE 100R4, AS 3791 100R4 (EXCEPT SR48).  
Third Party Approvals: ABS, DNV, GL, LR, MED, USCG

### RECOMMENDED FOR:

Petroleum and water base hydraulic fluids in suction lines or in low pressure return lines.

### TUBE:

Black, oil resistant synthetic rubber. (Nitrile).

### 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. contact RYCO.

### WORKING PRESSURE:

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

#### 3300 SERIES COUPLINGS WITH RSC CLAMP

**3300 Series** (sizes -12 to -40).

3300 Series Couplings require a suitable clamp around the outside of the hose.

Refer to RYCO RSC Clamps shown below.

Assembly Instructions per RYCO Product Technical Manual.

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

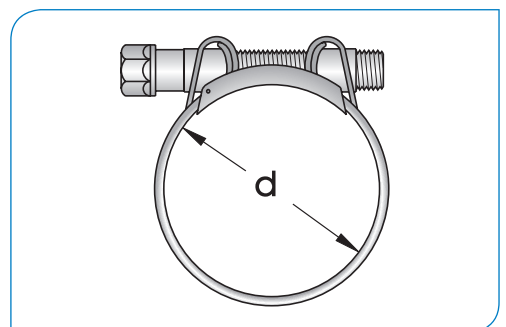
#### BITELOK NON-SKIVE ONE-PIECE CRIMP

**T400 Series** (sizes -12 and -16).

Assembly Instructions per RYCO Product Technical Manual.

SR – SUCTION AND RETURN HOSE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BEND RADIUS		VACUUM RATING		AVERAGE WEIGHT	
PART NO	HOSE SIZE	mm	inch	mm	inch	bar	psi	mm	inch	mmHg	inHg	kg/m	lb/ft
SR12	19 -12	19,0	3/4	31,5	1.24	21	300	125	5.0	635	25	0,82	0.55
SR16	25 -16	25,4	1	40,0	1.57	17	250	150	6.0	635	25	1,00	0.67
SR40	63 -40	63,5	2.1/2	78,5	3.09	4,3	62	350	13.8	635	25	2,37	1.59
SR48	76 -48	76,2	3	90,7	3.57	3,9	56	450	17.7	635	25	2,45	1.64

HOSE PART NO	CLAMP PART NO	CLAMP ADJUSTMENT RANGE	RECOMMENDED TIGHTENING TORQUE	
		d mm	Nm	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

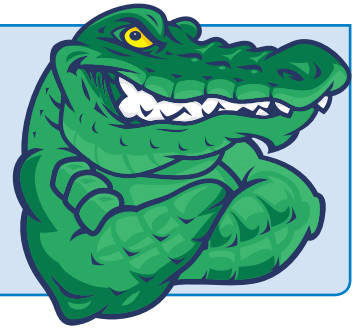


**NOTE:** For sizes -20, -24 & -32, use RYCO SRF Hose.

\*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.

**RCS**

**CROCSLEEVE  
FLAME RESISTANT  
ANTI-STATIC**



## CROCSLEEVE - SAFETY FIRST

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

CHEMICALLY COMPATIBLE	BLACK (RCSB)		RED (RCSR)	
	Material	Compatibility	Material	Compatibility
	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

**MDG41 SAFE**

## 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.  
If CROCSLEEVE is to be installed onto fitted hose assemblies, allow for the maximum outside profile of the hose fittings.

### ASSEMBLY INSTRUCTIONS:

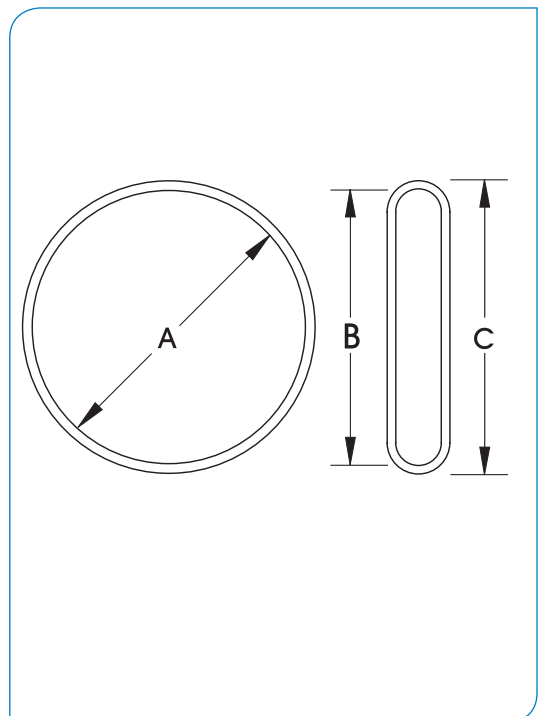
Cut the CROCSLEEVE to length.  
The loose fibres of the cut edges can be sealed with a heat gun or hot knife, to prevent fraying.  
Install over hoses or hose assemblies.  
Secure in place using adhesive-lined heat shrink tubing.



## CROCSLEEVE SPECIFICATIONS

### CROCSLEEVE DIMENSIONS

PART NO		NOMINAL OPEN 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



INTRODUCTION

HOSE

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TECHNICAL



# RSGF

**FRAS POLYETHYLENE  
SPIRAL GUARD  
FLAME RESISTANT  
ANTI-STATIC**



**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. 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.

**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.

**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 = 19,0 mm (see chart on page 79)

RSG-20L Nominal ID = 15,0 mm (from chart below)

Estimated length of RSG-20L to cover 2,3 metres of T26A

$$= \frac{19,0}{15,0} \times 2,3 \text{ m} = 2,91 \text{ metres}$$

**HOW TO ORDER:**

Complete the Part Number: **RSGF-16L, RSGF-75L, RSGF-50L** etc.

Size -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	NOMINAL Hose ID		NOMINAL HOSE OD		T3000D T3000S	T4000D T4000S	T5000D T5000S	T6000D T6000S	T1D T1S	T2D T2S	H3000D H3000S	H4000D H4000S	H5000D H5000S	H6000D H6000S
	mm	inch	mm	inch										
-12L	9,0	0.35	13,0	0.51					-3					
-16L	12,0	0.47	16,5	0.65	-4	-4	-4	-4	-4	-4				
-20L	15,0	0.59	20,0	0.79	-6,-8	-6,-8	-6,-8	-6	-6,-8	-6,-8			-6	-6
-25L	19,0	0.75	24,5	0.96								-8	-8	-8
-32L	23,0	0.91	30,0	1.18	-12	-12			-12	-12		-10,-12	-12	-12
-40L	30,5	1.20	39,0	1.54	-16				-16	-16		-16	-16	-16
-50L	38,0	1.50	46,5	1.83				-20	-20,-24	-20,-24	-20,-24	-20,-24	-20	-20
-63L	47,0	1.85	58,0	2.28				-24	-32	-32	-32	-32	-24	-24
-75L	61,0	2.40	73,0	2.87				-32		-40			-32	-32
-90L	70,5	2.78	84,5	3.33	USED TO BUNDLE HOSES									
-110L	84,0	3.31	99,0	3.90	USED TO BUNDLE HOSES									

DASH	NOMINAL Hose ID		NOMINAL HOSE OD		H12D H12S	H13D H13S	H15D	PL1D	SRF SR			
	mm	inch	mm	inch								
-12L	9,0	0.35	13,0	0.51								
-16L	12,0	0.47	16,5	0.65				-4,-5				
-20L	15,0	0.59	20,0	0.79	-6							
-25L	19,0	0.75	24,5	0.96	-8			-6,-8				
-32L	23,0	0.91	30,0	1.18	-10,-12	-12	-12	-10,-12				
-40L	30,5	1.20	39,0	1.54	-16	-16	-16		-12,-16			
-50L	38,0	1.50	46,5	1.83	-20,-24	-20	-20					
-63L	47,0	1.85	58,0	2.28	-32	-24	-24		-32			
-75L	61,0	2.40	73,0	2.87		-32	-32		-40			
-90L	70,5	2.78	84,5	3.33	USED TO BUNDLE HOSES							
-110L	84,0	3.31	99,0	3.90	USED TO BUNDLE HOSES							

## RHYT HOSE TAG



### RECOMMENDED FOR:

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

Two sizes of RHYT 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** suits hose sizes -04 to -10 (1/4" to 5/8").  
**RHYT-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 HOSE TAGS			
PART NO	SUITS HOSE SIZE ID RANGE		
	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

RHYT-32

RHYT-10

Contact RYCO for further information.

**SEE RYCO PRODUCT TECHNICAL MANUAL 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, and on Reels or in Bulk Cartons. Details of average quantities packed on reels (or in cartons) and their dimensions are available from RYCO on request.

PART NO	SIZE	COILS	REELS	BULK CARTONS
<b>T3000D, T3000S</b>	all sizes		•	•
<b>T4000D, T4000S</b>	all sizes		•	•
<b>T5000D, T5000S</b>	all sizes		•	•
<b>T6000D, T6000S</b>	all sizes		•	•
<b>T1D, T1S</b>	up to and including -16 (1") -20 to -32 (1.1/4" to 2")	•	•	•
<b>T2D, T2S</b>	up to and including -16 (1") -20 to -48 (1.1/4" to 3")	•	•	•
<b>H3000D, H3000S</b>	up to and including -16 (1") -20 to -32 (1.1/4" to 2")	•	•	•
<b>H4000D, H4000S</b>	up to and including -16 (1") -20 to -32 (1.1/4" to 2")	•	•	•
<b>H5000D, H5000S</b>	up to and including -16 (1") -20 to -32 (1.1/4" to 2")	•	•	•
<b>H6000D, H6000S</b>	up to and including -16 (1") -20 to -32 (1.1/4" to 2")	•	•	•
<b>H12D, H12S</b>	up to and including -16 (1") -20 to -40 (1.1/4" to 2.1/2")	•	•	•
<b>H13D, H13S</b>	up to and including -16 (1") -20 to -40 (1.1/4" to 2.1/2")	•	•	•
<b>H15D</b>	up to and including -16 (1") -20 to -32 (1.1/4" to 2")	•	•	•
<b>PL1D</b>	all sizes	•		
<b>SR</b>	all sizes	•		
<b>SRF</b>	all sizes	•		