

# HOSE

## ISOBARIC SPIRAL

### H5000D

EXTRA ABRASION RESISTANT  
FRAS

ISOBARIC SPIRAL HOSE

350 BAR / 5100 PSI

MILLION CYCLE



#### RECOMMENDED FOR:

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

#### PERFORMANCE:

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

#### TUBE:

Black, oil resistant synthetic rubber.

#### REINFORCEMENT:

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

#### COVER:

**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 T6000 & T7000 Series Crimp Couplings.

#### FEATURES:

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

#### FRAS - FLAME RESISTANCE AND ANTI-STATIC:

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

#### TEMPERATURE RANGE:

-40°C to +121°C, (-40°F to +250°F.)  
For water, emulsions etc. see page 58.

#### WORKING PRESSURE:

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

#### THIRD PARTY APPROVALS:

ABS, DNV-GL, LR, MED, USCG, GOST-R, BV, RINA and KR.

#### COUPLINGS:

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

**T7000 Series** (sizes -06 to -24) pages 272 to 302.

**T6000 Series** (size -12 to -32) pages 250 to 270.

Assembly Instructions pages 478.

H5000D - DIEHARD ISOBARIC SPIRAL HOSE		NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES	
PART NO	HOSE SIZE	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	ONE PIECE	
H5006D	10 -06	9,5	3/8	19,3	0.76	350	5100	1400	20400	60	2.4	0,61	0.41	NON-SKIVE T7000	
H5008D	12 -08	12,7	1/2	22,7	0.89	350	5100	1400	20400	90	3.5	0,78	0.52	T7000	
H5010D	16 -10	15,9	5/8	26,2	1.03	350	5100	1400	20400	100	3.9	0,98	0.66	T7000	
H5012D	19 -12	19,1	3/4	29,6	1.17	350	5100	1400	20400	120	4.7	1,21	0.81	T6000	T7000
H5016D	25 -16	25,4	1	36,8	1.45	350	5100	1400	20400	150	5.9	1,72	1.16	T6000	T7000
H5020D	31 -20	31,8	1.1/4	45,0	1.77	350	5100	1400	20400	210	8.3	2,42	1.63	T6000	T7000
H5024D	38 -24	38,1	1.1/2	52,7	2.07	350	5100	1400	20400	330	13.0	3,44	2.31	T6000	T7000
H5032D	51 -32	50,8	2	67,5	2.66	350	5100	1400	20400	400	15.8	5,40	3.63	T6000	

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