

# HOSE

## ISOBARIC BRAID

### T3000D

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



#### RECOMMENDED FOR:

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

#### PERFORMANCE:

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

#### TUBE:

Black, oil resistant synthetic rubber.

#### REINFORCEMENT:

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

#### COVER:

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

#### FEATURES:

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

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

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

#### TEMPERATURE RANGE:

-40°C to +100°C (-40°F to +212°F).  
For water, emulsions etc. see page 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, CLASSNK, GOST-R, BV, RINA and KR.

#### COUPLINGS:

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

**T2000 Series** (sizes -04 to -16) pages 187 to 232. Assembly Instructions pages 478.

T3000D - DIEHARD COMPACT ISOBARIC HOSE															
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T3004D	6	-04	6,6	1/4	11,8	0.46	245	3500	980	14000	38	1.5	0,16	0.11	T2000
T3005D	8	-05	8,2	5/16	14,4	0.57	245	3500	980	14000	40	1.6	0,23	0.15	T2000
T3006D	10	-06	9,8	3/8	15,6	0.61	215	3100	860	12400	65	2.6	0,26	0.18	T2000
T3008D	12	-08	13,0	1/2	18,7	0.74	215	3100	860	12400	90	3.6	0,36	0.24	T2000
T3010D	16	-10	16,2	5/8	23,4	0.92	215	3100	860	12400	100	3.9	0,56	0.38	T2000
T3012D	19	-12	19,1	3/4	27,6	1.09	215	3100	860	12400	120	4.7	0,78	0.52	T2000
T3016D	25	-16	25,4	1	34,8	1.37	215	3100	860	12400	150	5.9	1,14	0.77	T2000

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

# T4000D

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



INTRODUCTION

HOSE

COUPLINGS

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TECHNICAL

### RECOMMENDED FOR:

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

### PERFORMANCE:

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

### TUBE:

Black, oil resistant synthetic rubber.

### REINFORCEMENT:

One braid (-04 size) or two braids (-05 to -16 size) of high tensile wire.

### COVER:

**DIEHARD™** Black, oil and extra abrasion resistant synthetic rubber. Flame Resistant, Anti-Static (FRAS) & MSHA compliant. Highly visible layline branding for easy and permanent identification. No skiving required with T2000 & T3000 (-16) Series Crimp Couplings.

### FEATURES:

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

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

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

### TEMPERATURE RANGE:

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

**T2000 Series** (sizes -04 to -16) pages 187 to 232.  
Assembly Instructions pages 478.

T4000D - DIEHARD COMPACT ISOBARIC HOSE															
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
T4004D	6	-04	6,6	1/4	11,8	0.46	280	4100	1120	16400	50	2.0	0,17	0.12	T2000
T4005D	8	-05	8,2	5/16	15,6	0.61	280	4100	1120	16400	55	2.2	0,34	0.23	T2000
T4006D	10	-06	9,8	3/8	16,6	0.65	280	4100	1120	16400	65	2.6	0,37	0.25	T2000
T4008D	12	-08	13,0	1/2	20,6	0.81	280	4100	1120	16400	90	3.6	0,51	0.34	T2000
T4010D	16	-10	16,2	5/8	23,4	0.92	280	4100	1120	16400	100	3.9	0,61	0.41	T2000
T4012D	19	-12	19,1	3/4	28,4	1.12	280	4100	1120	16400	120	4.7	0,92	0.62	T2000
T4016D	25	-16	25,4	1	33,9	1.34	280	4100	1120	16400	160	6.3	1,27	0.85	T3000

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

# T5000D

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

**RECOMMENDED FOR:**

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

**PERFORMANCE:**

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

**TUBE:**

Black, oil resistant synthetic rubber.

**REINFORCEMENT:**

Two braids of high tensile steel wire.

**COVER:**

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

**FEATURES:**

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

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

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

**TEMPERATURE RANGE:**

-40°C to +100°C (-40°F to +212°F).  
For water, emulsions etc. see page 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**

**T2000 Series** (sizes -04 to -16) pages 187 to 232.  
Assembly Instructions pages 478.

T5000D - DIEHARD COMPACT ISOBARIC HOSE															
PART NO	HOSE SIZE	NOMINAL HOSE ID		NOMINAL HOSE OD		MAXIMUM WORKING PRESSURE		MINIMUM BURST PRESSURE		MINIMUM BEND RADIUS		AVERAGE WEIGHT		COUPLING SERIES ONE PIECE	
Hose	DN	Dash	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	kg/m	lb/ft	NON-SKIVE
<b>T5004D</b>	6	-04	6,6	1/4	13,2	0.52	350	5100	1400	20400	50	2.0	0,28	0.19	T2000
<b>T5005D</b>	8	-05	8,2	5/16	15,6	0.61	350	5100	1400	20400	55	2.2	0,34	0.23	T2000
<b>T5006D</b>	10	-06	9,8	3/8	17,1	0.67	350	5100	1400	20400	65	2.6	0,41	0.28	T2000
<b>T5008D</b>	12	-08	13,0	1/2	20,6	0.81	350	5100	1400	20400	90	3.6	0,57	0.38	T2000

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