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## DIEHARD T1D

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 ([click to view](#)).

### 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.

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.

### Tube:

Black, oil resistant synthetic rubber. (Nitrile).

### Reinforcement:

One braid of high tensile steel wire.

### Cover:

Black, extra abrasion resistant and oil resistant rubber. "FRAS" Flame Resistant and Anti-Static.

The weight loss of the cover under ISO 6945 method of test for abrasion resistance is less than 10% (less than 0,05 g) of that allowed by DIN 20022-1SN and EN 853 Type 1SN. 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.

### Temperature Range:

From -40°C to +100°C (-40°F to +212°F).  
For water, emulsions etc. [click to view](#)

### Working Pressure:

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

### Flame Resistance:

Complies with Flame Resistant and Electrical Resistance (Anti-Static) requirements of Australian Standard AS 2660 and Methods of Test AS 1180.10B and 13A.

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

### Couplings:

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

T200 Series (sizes -4 to -20) [click to view](#)

T700 Series (sizes -6 to -32) [click to view](#)

Assembly Instructions [click to view](#)

#### FIELD ATTACHABLE NON-SKIVE

K Series (sizes -4 to -16) [click to view](#)

Assembly Instructions [click to view](#)

#### FIELD ATTACHABLE SKIVE

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

Assembly Instructions [click to view](#)

Hose Working Pressures 1 BAR = 14.5 PSI 1 MPA = 10 BAR

PART NO	HOSE SIZE ID			MAX. DYNAMIC WORKING PRESSURE		MIN. BURST PRESSURE	
	DN	INCH	DASH	BAR	PSI	BAR	PSI
T14D	6	1/4	-04	225	3250	900	13000
T15D	8	5/16	-05	215	3100	860	12400
T16D	10	3/8	-06	180	2600	720	10400
T18D	12	1/2	-08	160	2300	640	9200
T110D	16	5/8	-10	130	1900	5200	7600
T112D	19	3/4	-12	105	1500	420	6000
T116D	25	1	-16	90	1300	360	5200
T120D	31	1.1/4	-20	65	945	260	3780
T124D	38	1.1/2	-24	50	725	200	2900
T132D	51	2	-32	40	580	160	2320

Hose Dimensions						Matched Couplings				
PART NO	MINIMUM BEND RADIUS		AVERAGE WEIGHT		NOMINAL HOSE OD		A SERIES SKIVE LENGTH	FIELD ATTACHABLE K (&A) SERIES		BITELOK ONE PIECE CRIMP
	MM	INCH	KGS/M	LBS/FT	MM	INCH	MM	INSERT	FERRULE	NON-SKIVE
T14D	38	1.5	0,24	0.16	13,4	0.53		600 SERIES	K00-04	T200
T16D	50	2.0	0,36	0.24	17,4	0.69		600 SERIES	K00-06	T200 T700
T15D	50	2.0	0,28	0.19	15,0	0.59				T200
T18D	75	3.0	0,45	0.30	20,5	0.81		600 SERIES	K00-08	T200 T700
T110D	89	3.5	0,52	0.35	23,7	0.93		600 SERIES	K00-10	T200 T700
T112D	109	4.3	0,65	0.44	27,6	1.09		600 SERIES	K00-12	T200 T700
T116D	140	5.5	0,96	0.65	35,7	1.41		600 SERIES	K00-16	T200 T700
T120D	419	16.5	1,32	0.89	43,6	1.72	45	600 SERIES	*A00-20	T200 T700
T124D	500	20.0	1,60	1.08	50,5	1.99	49	600 SERIES	*A00-24	T700
T132D	600	24.0	2,20	1.48	64,1	2.52	66	600 SERIES	*A00-32	T700

\*\*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.

\*When using A Series Field Attachable Couplings on T1D Series Hose, cover of hose must be skived at ends.  
Contact RYCO Hydraulics for Crimp Diameter and Mark Length for BITELOK Couplings.