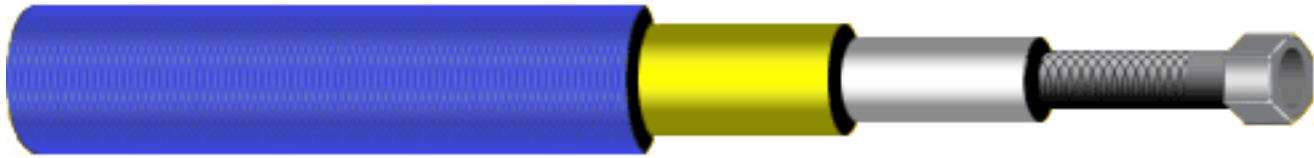


Diebolt & Company

Product Notes & Specifications

ElectraFlo II Flexible Heated Hose

Series D Electrically Heated High Temperature & Pressure Teflon Core Hoses



Hose Description

ElectraFlo II Series D flexible braided stainless steel hose features a smooth bore Teflon Core which is electrically heated for operation to 450°F (232°C). The heated hoses are flexible and can be operated in continuous movement conditions. Our state of the art proprietary heating element provides optimum temperature uniformity throughout the entire heated length. Multiple layers of Thermal Insulation provide efficient maintenance of temperature and are safe to the touch. The outside Teflon hose cover is either a braided abrasive resistant sleeving or a tough flexible reinforced PVC jacket. All hoses are supplied electrically and hydraulically complete, ready to use.

Electrical

Operating Voltage - any phase voltage to 480 VAC. Depending on length, hoses may be ordered to operate on 240 or 480 VAC, three-phase. Power Density is based on the desired operating temperature, lowest ambient temperature and size of hose. Our engineering department determines the power density required for your application.

Temperature

Series D braided stainless steel hose must be controlled (except for the self-limiting "SL" version) to maintain the desired operating temperature. A temperature sensor is installed during construction and, unless otherwise specified, will be installed three feet from the power end of the hose.

Construction

Core Material

Smooth Bore Teflon Core

Reinforcement

Model DTM Medium Pressure - 100% Coverage Stainless Steel Braid

Model DTF-Extra Flexible Medium Pressure glass and Stainless Steel

Model DTH High Pressure - Multiple Stainless Steel Braids

Heating Element

Constant-Power Density & Self Limiting - Highly Flexible Design - Maintains Uniform Temperature

Thermal Insulation

Three Interwoven Layers of Non Toxic & Highly Efficient Aramid Fiber

External Jacket

Indoor Service - Abrasion Resistant Braided Sleeving

Outdoor Service - Tough, Flexible Reinforced PVC Jacket

Fittings

37° JIC Female Swivel Male NPT Tube for Compression Fitting

Power/Control Cable

Six Feet Standard Length (longer lengths available)

Please contact our customer service department for additional specifications or a quote.

Table 1: Typical Hose Applications

APPLICATION	TYPE OF USES
Product Transfer	Plastics Hot Melt Adhesives Petroleum Products
Viscosity Control	Asphalt, Tar, Fats, Oil, Wax Chemicals

Hose Specifications**Table 2: Model DTM Standard Hose Core**

TUBE SIZE	TEFLON TUBE I.D.	FINISHED DIAMETER (NORMAL) 1/2" INS.	MAXIMUM OPERATING PSI	MINIMUM BURST PSI	MINIMUM BEND RADIUS	NORMAL WEIGHT LB/FT
4	0.187"	1.500"	3000	8000	8"	0.44
5	0.250"	1.600"	3000	8000	9"	0.46
6	0.312"	1.750"	2500	7000	10"	0.50
8	0.405"	1.875"	2000	7000	12"	0.57
10	0.500"	2.050"	1500	4000	14"	0.62
12	0.625"	2.125"	1200	3500	16"	0.69
16	0.875"	2.375"	1000	3200	19"	0.95
20	1.062"	2.626"	750	2400	24"	1.48
24*	1.375"	3.250"	800	3200	32"	2.05

* Features double stainless steel braid.

Table 3: Model DTF Very Flexible Hose Core

TUBE SIZE	TEFLON TUBE I.D.	FINISHED DIAMETER (NORMAL) 1/2" INS.	MAXIMUM OPERATING PSI	MINIMUM BURST PSI	MINIMUM BEND RADIUS	NORMAL WEIGHT LB/FT
4	0.187"	1.600"	4000	16000	2.25"	0.54
5	0.250"	1.700"	3500	14000	3.25"	0.56
6	0.312"	1.850"	3500	14000	3.25"	0.60
8	0.405"	1.975"	2500	10000	4.50"	0.67
10	0.500"	2.150"	1800	7200	5.50"	0.72
12	0.625"	2.225"	1500	6000	8.00"	0.79

Table 4: Model DTH High Pressure Hose Core

TUBE SIZE	TEFLON TUBE I.D.	FINISHED DIAMETER (NORMAL) 1/2" INS.	MAXIMUM OPERATING PSI	MINIMUM BURST PSI	MINIMUM BEND RADIUS	NORMAL WEIGHT LB/FT
4	0.229"	1.70"	5000*	16000	8"	0.60
6	0.300"	1.95"	5000*	16000	11"	0.81
8	0.395"	2.10"	5000*	16000	14"	0.96
12	0.650"	2.25"	5000*	16000	16"	1.48
16	0.875"	2.75"	5000*	16000	18"	1.48
20	1.118"	3.20"	5000*	16000	22"	2.05
24	1.375"	3.25"	4000*	16000	26"	3.40

* At 400°F (204°C) maximum temperature.

Temperature Sensors

J = Type J Thermocouple, K = Type K Thermocouple, T = Thermistor, R = RTD (100 OHM), N = No Sensor

Fittings

J = JIC Female Swivel, J/TA = JIC Female Swivel with tube adapter, M = NPT Male Pipe, T = Tube for Compression Fitting.

How To Order

Select Model DTL, DTM or DTH, Tube Size (from spec charts above). Length in Ft. Increments, Temperature Sensor (see codes above). Operating Voltage (indicate actual voltage) and Fitting (see codes above).

Example: DTM-6-7'-J-220-J

Diebolt & Company

Call 1-800-DIEBOLT (343-2658) or email sales@dieboltco.com