

Quality products

ISOHEAT[®]

MiL pressure hoses



PTFE, PFA, FEP pressure hoses:

Pressure hoses from MIL are resistant between all chemicals, also acid and leach of different concentrations.

Construction of the pressure hose is a core in FEP, PTFE or PFA, layer of braided steel wire and fitting on both ends.

Uniform thickness from the core have an essential importance for the lifetime of pressure hose. Depending of the pressure-strain core have one or more layer of steel wire, which was as braid or make lace or in combination of both.

The fittings was pressed to the core and the wrapped steel wire. The mechanical structure, the material and the pressing have to be adjust so that the fitting can withstand all pressure stresses.

Innovation in pressure hoses:

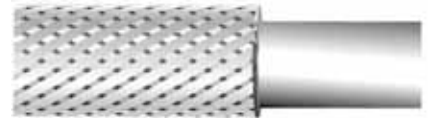
In cooperation with special select and proof partners MIL work constantly on ideas and new developments as thermoplastic high pressure hoses.

Type of pressure hoses

Pressure hose type is determined by the required operating pressure.

T1

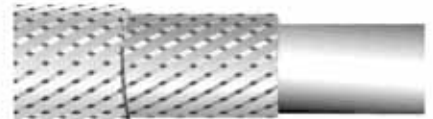
smooth PTFE-core with one braided layer of stainless steel wire (1.4301), max. temperature 250°C



nominal width DN (NW)	4	6	8	10	12	16	20	25
max.operating pressure bar	275	240	200	175	150	135	100	80
burst pressure bar	1100	920	800	700	600	540	400	320
min. bending radius mm	50	75	100	120	135	160	200	250

T2

smooth PTFE-core with two braided layer of stainless steel wire (1.4301), max. temperature 250°C



nominal width DN (NW)	6	8	10	12	16	20	25	32	40
max.operating pressure bar	275	250	225	200	175	150	130	70	50
burst pressure bar	1100	1000	900	800	700	600	520	280	200
min. bending radius mm	75	100	120	135	160	200	250	500	850

T3

smooth PTFE-core with two wound and one braided layer of steel wire, max. temperature 250°C



nominal width DN (NW)	6	8	10	12	16	20	25	32
max.operating pressure bar	500	475	450	400	400	300	275	250
burst pressure bar	2000	1900	1800	1600	1600	1200	1000	1000
min. bending radius mm	75	100	120	135	160	200	240	280

PTFE-corrugated

Corrugated PTFE core with an layer of stainless steel wire (1.4301), helically corrugated, suitable for very small bending radius (operating temperature -54°C to 204°C in dependence of medium and operating pressure)

nominal width DN (NW)	10	13	16	20	25	32	40	50
max. operating pressure bar	103	103	86	86	77	62	51	34
burst pressure bar	413	413	345	345	310	248	206	138
min. bending radius mm	25	37	50	62	75	82	200	250

PFA-corrugated

Corrugated PFA core with an layer of stainless steel wire (1.4301), parallel corrugated, very flexible (operating temperature -54°C to 204°C in dependence of medium and operating pressure)

nominal width DN (NW)	8	10	13	16	20
max. operating pressure bar	90	88	88	88	53
burst pressure bar	360	350	350	350	210
min. bending radius mm	25	37	40	50	62

PA-high-pressure hose

Two spiral wire inserts, made as high tensile steel wire and a braided layer of steel wire, high buckling strength and high flexibility (operating temperature -40°C to +100°C)

nominal width DN (NW)	6	8	10	12	16	19	25	31
max. operating pressure bar	450	400	375	350	330	300	275	275
burst pressure bar	1800	1600	1500	1400	1320	1200	1100	1100
min. bending radius mm	70	100	120	165	200	240	280	400

Temperature correction for T1 – T4 100°C x0,9; 200°C x0,8; 250°C x0,6
for T5 100°C x0,9; 200°C x0,8; 250°C x0,6; 350°C x0,55; 500°C x0,52

Other material or pressure hoses available - on request.

MiL Heating Systems
Großer Sand 4
D-76698 Ubstadt-Weiher

Phone + 49 (0) 72 51 - 93247 - 0
Fax + 49 (0) 72 51 - 93247 - 29

E-Mail: info@isoheat.de
Internet: www.isoheat.de