

KM-Pressure hoses



PTFE, PFA, FEP pressure hoses:

Pressure hoses from KM are resistant to all chemicals, also acids and leach of different concentrations.

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

Uniform thickness from the core has an essential importance for the lifetime of the pressure hose. Depending on the pressure-strain core, there is one or more layer of steel wire, which can be a braid or mesh or in combination of both.

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

Innovation in pressure hoses:

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



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 bT1 – T4 100°C x0,9; 200°C x0,8; 250°C x 0,6
for T5 100°C x 0,9; 200°C x 0,8; 250°C x 0,6; 350°C x 0,55; 500°C x 0,52

Other material or pressure hoses available - on request.

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