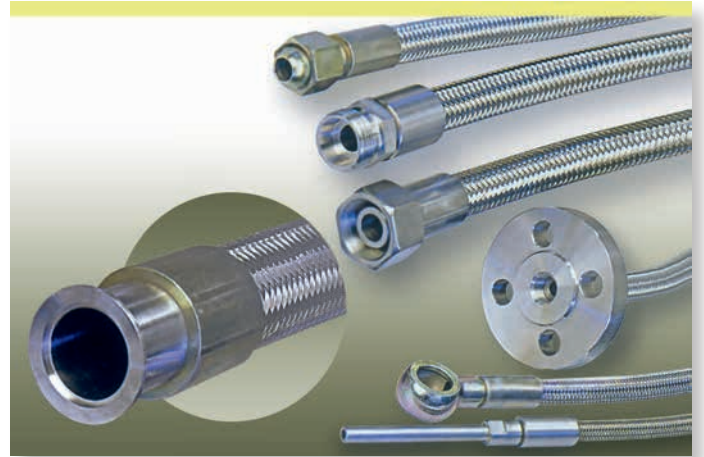


HM Pressure hoses



PTFE, PFA, FEP pressure hoses:

Pressure hoses from KM 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.

PTFE-corrugated

Corrugated PTFE core with an layer of stainless steel wire (1.4301), helically corrugated, suitable for every 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 x 0,9; 200°C x 0,8; 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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