

PTFE hose with vacuum helix and para-aramid braiding

Our PTFE hose type NFN-V with para-aramid braiding is a very flexible universal hose with a convoluted PTFE liner, vacuum helix and abrasion-resistant, non-metallic braiding. This means there is no risk of injury from protruding metal strands.

The hose liner consists of seamless extruded PTFE. The para-aramid braiding with carbon fibre makes the hose universally deployable, very flexible and light. The yarn used for the braiding is completely resistant to UV radiation, making it perfect for outdoor use, especially in countries with high UV exposure.

PTFE hose type NFN-V

Our PTFE hose type NFN-V with vacuum helix and para-aramid braiding offers high compressive strength and high chemical resistance against all media (pH 0-14), except molten or dissolved alkali metals and elemental fluorine. Accordingly, our PTFE hose with para-aramid braiding is frequently used as a suction or pressure hose in chemical, pharmaceutical or food plants.

We can offer a variety of fittings and materials for all our PTFE hoses and are pleased to respond flexibly to customer requests. In addition, smooth ends and flared or lined fittings are also possible with our PTFE hoses. Complete traceability of our hoses is ensured by the serial number on the crimp collar.

Technical specifications

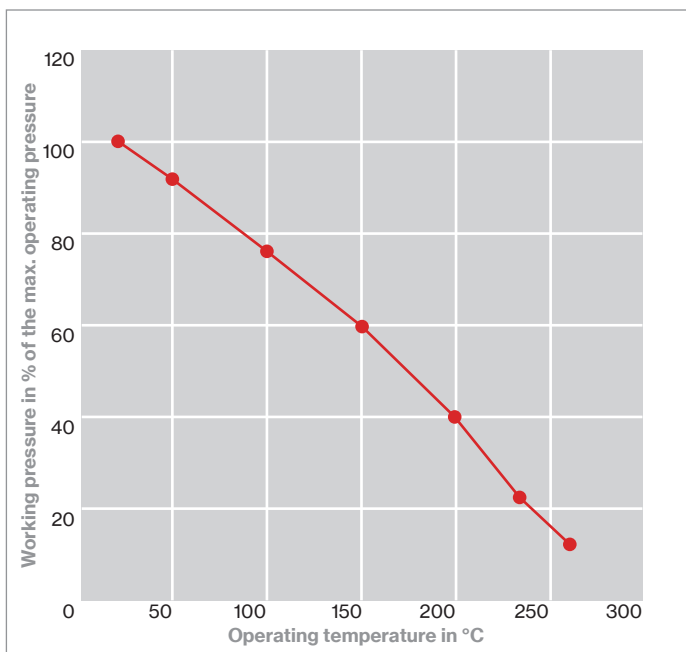
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DN mm / inch		Inside Ø approx. [mm]	Outside Ø approx. [mm]	Operating pressure* max. [bar]	Weight [kg/m]	Bending radius [mm]
12	½	11.6 – 13.6	23.4	50	0.13	50
20	¾	19.5 – 20.5	29.9	60	0.34	55
25	1	24.5 – 25.5	40.7	40	0.46	85
32	1¼	31.5 – 32.5	48.6	40	0.57	100
40	1½	36.5 – 37.5	52.4	40	0.71	120
50	2	49.5 – 50.5	69.2	25	1.15	165
65	2½	62.5 – 63.5	91.6	16	2.14	230
80	3	73.5 – 74.5	102.2	14	3.31	260

DN 10 and DN 100 on request.

*All values are stated for a temperature of 20 °C.

p-T diagram



Structure

Core	PTFE
Cover	N/A
Braiding	Para-aramids with conductive fibers
Fittings	Crimped or flared
Inserts	N/A
Temperature	-70 °C / +260 °C
Vacuum	With vacuum helix down to 66.25 mbar absolute at 20 °C
Max. length	10 m, longer lengths on request
Standard/ approval	FDA 21 CFR 177.1550, USP XXXVI Class VI, EC 1935/2004, free of TSE & BSE

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