

Braided Teflon hoses - corrugated



VISIFLON (HYPERLINE V)

Extremely flexible corrugated Teflon braided hose

Hose material: spirally corrugated PTFE (Teflon)
Reinforcement: AISI 304 braided steel (SS version)
 Polypropylene braid (PB version)
Operating temperature: -70°C to +230°C (SS version)
 from -30°C to +100°C (PB version)
 (working pressure dependent on temperature)

The hose is made of high quality spiral crimped PTFE providing flexibility, elasticity and vibration resistance unique among Teflon hoses. The braid of the **SS version** is made of annealed **AISI 304 stainless steel** wire and provides high pressure resistance.

As with any Teflon hose, due to the unique properties of PTFE (large operating temperature range, resistance to most substances and chemicals, negligible surface adhesion), VISIFLON hose is ideal for the transfer of chemicals, fuels, oils, paints, solvents, adhesives, dyes, detergents, steam, etc.



The PB version has an orange braided **polypropylene** fibre, characterised by low weight and high chemical resistance. It is ideal for aggressive chemicals, acids and alkalis, especially when combined with ends made from resistant chemically plastic e.g. polypropylene.

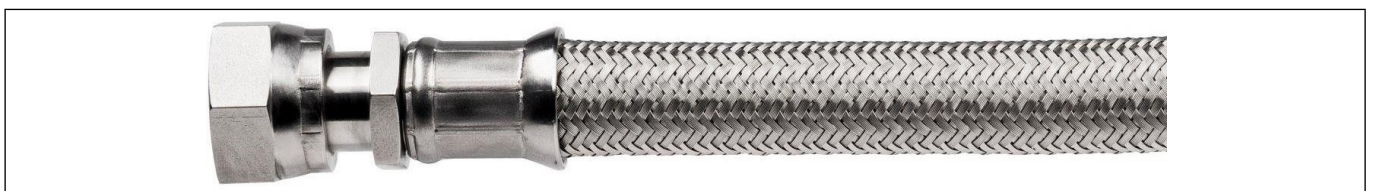
The maximum working pressure of the PB version is 50% of that of the SS version. Available on special order, the version in **black** polymer braid (**PBB version**), has similar characteristics to the PB version and is used where bright colours cannot be used, such as in military applications.



Where a risk of static electricity is identified (danger of static electricity generation and build-up, see introduction to Teflon hoses), VISIFLON hoses made of anti-static Teflon should be used - **AS anti-static version**. They are available in both braided versions - stainless steel (**SS**) and polymer braided (**PB**). The antistatic Teflon of the AS version is **black** (containing carbon suitably distributed in PTFE) and has a resistance of $R < 10^8 \Omega$

(according to ISO 8031- annex A). This ensures the dissipation and dispersion (dispersion) of electrical charges. The selection of a standard natural PTFE or antistatic version of the hose must be confirmed with Tubes International.

VISIFLON SS - in stainless steel braid:



index (PTFE natural)	index (AS version)	nominal diameter [inch]	nominal diameter [mm]	through diameter [mm]	external diameter [mm]	working pressure * [bar]	testing pressure** [bar]	burst pressure [bar]	vacuum*** [bar]	bend radius [mm]	mass [kg/m]
AF-VFSS-10	AF-VFSS-10AS	3/8"	10	6,3	11,95	60	90	240	0,9	19	0,144
AF-VFSS-13	AF-VFSS-13AS	1/2"	12	9,5	15,25	47	70,5	188	0,9	25	0,195
AF-VFSS-16	AF-VFSS-16AS	5/8"	16	12,7	21,20	40	60	160	0,9	38	0,296
AF-VFSS-19	AF-VFSS-19AS	3/4"	20	16	22,70	32	48	128	0,9	50	0,376
AF-VFSS-25	AF-VFSS-25AS	1"	25	22	30,60	26	39	104	0,9	63	0,533
AF-VFSS-32	AF-VFSS-32AS	1.1/4"	32	28	36,00	25	37,5	100	0,9	75	0,729
AF-VFSS-38	AF-VFSS-38AS	1.1/2"	38	35	47,00	20	30	80	0,9	115	1,044
AF-VFSS-50	AF-VFSS-50AS	2"	51	47	61,00	15	22,5	60	0,9	130	1,378

Notes: indices highlighted in colour - most commonly used, indices in italics (1.1/2", 2") - until stocks run out (consider using CORROFLON hose).

* - safety factor 4:1; ** - test pressure 1.5 x operating pressure; *** - up to 130°C;

Temperature dependence of working pressure for VISIFLON Teflon hose (SS version):

At operating temperatures above +130°C, the maximum working pressure given in the table should be reduced by 1% for every 1°C above this temperature. For example, at a temperature of 170°C, the maximum working pressure for AF-VFSS-10 hose is: 60 bar - (170°C-130°C) x 1 = 60 bar - 40% = **36 bar**.