

## PTFE corrugated hoses



### VISIFLON TO

**Extremely flexible corrugated Teflon hose**

**Material:** spirally corrugated PTFE (Teflon), natural or antistatic

**Operating temperature:** -70°C to +100°C (+230°C)  
(working pressure dependent on temperature)

An unbraided version of the TO (*Tube Only*) VISIFLON hose (described in the next section "*Braided Teflon Hoses*"), made from high-quality PTFE spiral crimped (right-handed) for exceptional flexibility, flexibility and vibration resistance among Teflon hoses. VISIFLON TO hose can be used for the transfer of chemicals, foodstuffs, fuels, oils, paints, solvents, adhesives, dyes, detergents under very low pressure conditions. The standard version of VISIFLON TO is made of natural, semi-transparent PTFE, which allows visual control of the flow. The antistatic version of VISIFLON TO AS made of Teflon with added carbon (black) ensures the dissipation and discharge of electrical charges for substances and conditions threatened by static electricity. The hose material meets FDA requirements (21 CFR 177.1550 for VISIFLON TO, 21 CFR 178.3297 for VISIFLON TO AS). Flame-retardant (UL94 V-0) and with a high oxygen index (LOI). Hose assembly requires straightening of the notches along the length of the end tail (performed on special equipment at Tubes International). The ends can then be assembled by crimping with stainless steel tubing sleeves. For this type of application, also check out the CORROFLON hose in the TO (unbraided) version - see section "*Teflon industrial process hoses*".

index (PTFE natural)	index (AS version)	nominal diameter [inch]	nominal diameter [mm]	through diameter [mm]	external diameter [mm]	working pressure 20°C [bar]	20°C vacuum [bar]	bend radius [mm]	weight [g/m]
AF-VFTO-10	AF-VFTO-10AS	3/8"	10	6,3	10,7	4	0,9	25	57
AF-VFTO-13	AF-VFTO-13AS	1/2"	12	9,5	14,1	4	0,9	38	76
AF-VFTO-16	AF-VFTO-16AS	5/8"	16	12,7	19,8	4	0,9	50	126
AF-VFTO-19	AF-VFTO-19AS	3/4"	20	16	21,2	3	0,9	75	166
AF-VFTO-25	AF-VFTO-25AS	1"	25	22	29	3	0,9	89	235
AF-VFTO-32	AF-VFTO-32AS	1.1/4"	32	28	34,2	2	0,9	100	342

**Working pressure-temperature relationship for VISIFLON Teflon hose without braid:** The working pressures specified by the manufacturer in the table only apply up to a temperature of 100°C, and up to a temperature of 80°C in the case of vacuum. Above these temperatures, the working pressure and vacuum drop. Assuming use of the hose above these temperatures, this must be taken into account and appropriate tests must be carried out under operating conditions.



### HYPERLINE FX IS

**Smooth inside, externally corrugated Teflon hose**

**Material:** externally helically corrugated PTFE (Teflon), natural or antistatic

**Operating temperature:** -70°C to +150°C (+260°C)  
(working pressure dependent on temperature)

A non-braided version of the TO (*Tube Only*) HYPERLINE hose (described in the next section "*Braided Teflon Hoses*"), made of high-quality PTFE externally spirally corrugated (right-handed) and smooth inside. The hose combines the advantages of a flexible corrugated hose and a smooth-walled hose with a notch-free flow. The hose can be used for the transfer of chemicals, foodstuffs, fuels, oils, paints, solvents, adhesives, dyes, detergents under very low pressure conditions. The standard version is made of natural semi-transparent PTFE, which allows visual control of the flow. The AS antistatic version made of Teflon with added carbon (black) ensures the dissipation and discharge of electrical charges for substances and conditions threatened by static electricity. The hose material meets FDA requirements (21 CFR 177.1550 for standard hose, 21 CFR 178.3297 for antistatic). Flame retardant (UL94 V-0) and with a high oxygen index (LOI). The ends can be assembled with crimped stainless steel tubing sleeves. For this type of application, also check out the BIOFLEX ULTRA hose in the TO (unbraided) version - see section "*Teflon industrial process hoses*".

index (PTFE natural)	index (AS version)	nominal diameter [inch]	internal diameter [mm]	external diameter [mm]	working pressure 20°C [bar]	Burst pressure 20°C [bar]	20°C vacuum [bar]	bend radius [mm]	weight [g/m]
AF-FXTO-06	AF-FXTO-06AS	1/4"	6,8	9,0	6	18	0,9	38	41
AF-FXTO-08	AF-FXTO-08AS	5/16"	7,9	10,0	6	18	0,9	38	56
AF-FXTO-10	AF-FXTO-10AS	3/8"	10,0	12,5	6	18	0,9	50	70
AF-FXTO-13	AF-FXTO-13AS	1/2"	13,6	16,2	6	18	0,9	76	110
AF-FXTO-16	AF-FXTO-16AS	5/8"	16,7	20	6	18	0,9	100	161
AF-FXTO-19	AF-FXTO-19AS	3/4"	19,8	23,2	6	18	0,9	126	179
AF-FXTO-25	AF-FXTO-25AS	1"	26,0	30,3	6	18	0,9	150	268

**Working pressure-temperature relationship for HYPERLINE FX Teflon hose without braid:** the working pressures specified by the manufacturer in the table only apply up to a temperature of 150°C. Above this temperature there is a drop in working pressure and vacuum. Assuming use of the hose above these temperatures, this must be taken into account and appropriate tests must be carried out under operating conditions.