Stainless steel hoses



METALICA / F

Economical steel hose for **general applications** **Inner layer:**

corrugated sheet steel hose

AISI 316L stainless steel

Reinforcement: AISI 304 single braided steel

Operating temperature: -200°C to +700°C (pressure temperature-dependent operation)

Flexible, flexible stainless steel hose, parallel corrugated, in a single stainless steel braid. Hose with standard pitch and corrugation shape, mechanically formed. Suitable for conveying liquids and gases under pressure: water, steam, air, hot oil, chemicals. Safety factor of 4:1. Can operate under high vacuum conditions. Recommended primarily for static applications under typical operating conditions. Also available in unbraided and double braided versions on special request. Supplied as complete hose assemblies with welded ends as required. The end fittings for steel hoses are shown in the following section.

Mechanical configuration of the cable: according to the introduction to this section of the catalogue. **Check of chemical resistance:** table of chemical resistance of AISI steels 316 (pre-selection), confirmation of resistance and conditions of use by Tubes International. **Use for steam**: see safety instructions in chapter "Steam hoses". **Use of the hose:** according to the "Installation and use instructions for pressurised metal hoses" (IU-04, see introduction to this chapter).

index	size [inch]	DN [mm].	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar].	testing pressure 20°C [bar].	Bursting pressure 20°C [bar].	bend radius*		mass [kg/m]
									static [mm]	dynamic [mm]	
TB-METALICA-F-006	1/4"	6	6,3	10,7	0,15	150	225	600	25	80	~ 0,12
TB-METALICA-F-008	5/16"	8	8,4	13,2	0,15	110	165	440	32	120	0,160
TB-METALICA-F-010	3/8"	10	10,1	15,4	0,15	97	145,5	388	38	130	0,195
TB-METALICA-F-012	1/2"	12	12,4	17,7	0,15	75	112,5	300	45	140	0,228
TB-METALICA-F-016	5/8"	16	16,4	23,3	0,18	60	90	240	58	160	0,350
TB-METALICA-F-020	3/4"	20	20,3	28,2	0,18	62	93	248	70	170	0,453
TB-METALICA-F-025	1"	25	25,4	33,7	0,2	43	64,5	172	85	190	0,595
TB-METALICA-F-032	1.1/4"	32	33,8	43	0,22	46	69	184	105	260	0,922
TB-METALICA-F-040	1.1/2"	40	39,8	51,4	0,25	42	63	168	130	300	1,222
TB-METALICA-F-050	2"	50	50,2	62	0,25	32	48	128	160	320	1,380
TB-METALICA-F-065	2.1/2"	65	63	80	0,3	35	52,5	140	200	460	2,230
TB-METALICA-F-080	3"	80	80	98	0,3	35	52,5	140	240	660	2,890
TB-METALICA-F-100	4"	100	99	118	0,4	25	37,5	100	290	750	4,32
TB-METALICA-F-125	5"	125	126,6	152,5	0,5	10	15	40	350	1000	~ 5,4
TB-METALICA-F-150	6"	150	152	180	0,5	10	15	40	400	1250	~6,5

* - bend radius measured to the centreline of the hose

Hoses with different endings made of METALICA F hose: 1 - DN6 with endings AF1N with 1/4" NPT external thread; 2 - DN25 with endings: AF2 (internal thread BSP 1") and AF1 (external thread BSPT 1"); 3 - DN50 with end fittings AF2 and AF5/AF2 (internal thread BSP 2", 60° taper); 4 - DN50 with swivel flanges DN50 PN16, buttress in the form of an extension, swivel flange galvanised).

