General notes on the use of pressure metal hoses:

- never exceed the maximum working pressure of the hose stated in the catalogue and/or offer documentation;
- account for working pressure correction for elevated temperature, dynamic operating conditions and the working pressure of the fittings;
- carry out regular inspections or tests of the hoses, especially for hazardous substances;
- if a leak or signs of damage are noticed, take the hose out of service, replace or repair it;
- if in doubt, contact Tubes International.

Stainless steel hoses



METALFLEX / M

Economical general-purpose metal hose

Inner layer: corrugated hose made of AISI 316L stainless steel sheet
Reinforcement: single braid of AISI 304 steel
Working temperature: from -200°C to +700°C (working pressure dependent on temperature)

Flexible, pliable stainless steel hose, annularly corrugated, with a single stainless steel braid. A hose with standard pitch and corrugation shape, up to and including 2" diameter formed mechanically, and in larger diameters produced by hydroforming. Designed for pressurised conveyance of liquids and gases: water, steam, air, hot oil, chemicals. Safety factor 4:1. Can operate under high vacuum conditions. Recommended primarily for static applications in typical operating conditions. Also available on special order without braid and with double braid. Supplied as ready-made complete lines (hoses) with welded ends, according to the customer's order. Ends for steel hoses are shown later in this chapter.

Mechanical line configuration: as per the introduction to this catalogue chapter. **Chemical resistance check:** chemical resistance chart for AISI 316 steel (preliminary selection), confirmation of resistance and application conditions by Tubes International. **Application for steam**: see safety notes in the chapter "Steam hoses". **Line use:** as per the "Installation and operating instructions for pressurised metal hoses" (IU-04, see the introduction to this chapter).

index	size [inch]	DN [mm]	diameter inner [mm]	diameter outer [mm]	wall wall [mm]	working working 20°C [bar]	working test 20°C [bar]	working burst 20°C [bar]	bend radius*		weight [kg/m]	length stand.** [m]
									static [mm]	dynamic [mm]		
TB-METALFLEX-M-006	1/4"	6	6,0	10,8	0,15	125	187,5	500	50	124	0,19	25
TB-METALFLEX-M-008	5/16"	8	8,4	13,3	0,15	125	187,5	500	50	124	0,20	25
TB-METALFLEX-M-010	3/8"	10	10,1	15,4	0,15	90	135	360	50	152	0,23	25
TB-METALFLEX-M-012	1/2"	12	12,4	18,0	0,15	80	120	320	60	175	0,25	25
TB-METALFLEX-M-016	5/8"	16	16,4	23,2	0,18	64	96	256	58	160	0,40	25
TB-METALFLEX-M-020	3/4"	20	20,3	27,9	0,2	64	96	256	70	180	0,54	25
TB-METALFLEX-M-025	1"	25	25,4	33,5	0,2	50	75	200	104	229	0,66	25
TB-METALFLEX-M-032	1.1/4"	32	33,6	42,8	0,22	40	60	160	117	267	0,96	25
TB-METALFLEX-M-040	1.1/2"	40	39,8	51,1	0,23	30	45	120	152	292	1,28	25
TB-METALFLEX-M-050	2"	50	50,2	61,9	0,24	28	42	112	160	318	1,66	25
TB-METALFLEX-M-065	2.1/2"	65	65,6	79,0	0,3	27	40,5	108	175	508	2,15	25
TB-METALFLEX-M-075	3"	80	80,3	93,0	0,3	18	27	72	230	610	2,35	25
TB-METALFLEX-M-100	4"	100	103,2	119,5	0,3	16	24	64	250	750	3,03	25
TB-METALFLEX-M-125	5"	125	129,8	150,0	0,4	14	21	56	318	900	5,45	10
TB-METALFLEX-M-150	6"	150	152,7	180,0	0,4	10	15	40	350	1050	6,65	10
TB-METALFLEX-M-200	8"	200	197,5	230,4	0,5	8	12	32	457	1180	9,80	10
TB-METALFLEX-M-250	10"	250	249,0	280,8	0,6	6	9	24	560	1220	15,40	10
TB-METALFLEX-M-300	12"	300	300,0	335,8	0,6	5	7,5	20	660	1420	19,80	10

* - bend radius measured to the centreline hose ; ** - on special order, hoses can be made in lengths of 50 m (up to 2") and 15 m (from 5" to 8").