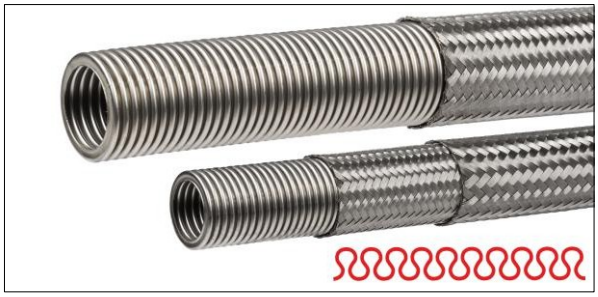
Stainless steel hoses



HP / THP / XHP

Hydroformed steel hose for high pressure Inner layer:

corrugated sheet steel hose

stainless steel AISI 316L or AISI 321

Amplification: single, double or triple braided AISI 304 steel

Operating temperature: -273°C to +600°C (pressure temperature-dependent operation)

Special **high-pressure** stainless steel hose of French manufacture. Hose with a thickened wall and parallel, tightly arranged "omega" shaped notches made by **hydroforming**. Hose reinforced with high-strength single (type HP), double (type THP) and triple (type XHP) braids for extremely high operating pressures. Safety factor of 4:1. Designed for the transmission of liquids and gases, in applications requiring both high working pressure, good flexibility and service life in difficult operating conditions. Used for industrial gases, steam, compressed air, in engine installations, pumps, compressors, turbines, power plants, industrial presses, etc. The THP 300 version with higher working pressure is particularly suitable for hoses for high-pressure gas cylinders. The hose is supplied in the form of ready-to-use complete hoses with welded ends, according to the customer's order. End fittings for steel hoses are shown in the following section.

Mechanical configuration of the tube: according to the introduction to this chapter of the catalogue. Chemical **resistance check: chemical** resistance table for AISI 316 or 321 steel (pre-selection), confirmation of resistance and conditions of use by Tubes International. **Use for steam**: see safety instructions in the 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).



HP DN12 with AF11/AF2



THP DN12 with AF12/AF2



THP300 DN6 with W21.8x1/14" for gases

index (AISI 316L steel hose, AISI 304 braided hose)	index (AISI 321 steel hose, AISI 304 braided hose)	size		number of braids	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]
		[inch].	DN [mm].								static [mm]	dynamic [mm]	
TB-HP-006	-	1/4"	6	1	5,9	11,4	0,2	180	270	720	25	110	0,19
TB-THP-006	-			2		13,0		255	383	1020			0,31
TB-THP300-006	-	1/4"	6	2	5,9	13,3	~	300	450	1200	25	140	0,32
TB-HP-010	-	3/8"	10	1	10,0	17,9	0,25	145	218	580	38	150	0,37
TB-THP-010	-			2		19,4		195	293	780			0,58
TB-HP-012	-	1/2"	12	1	11,8	20,2	0,3	140	210	560	45	165	0,48
TB-THP-012	-			2		21,8		185	278	740			0,73
TB-HP-020	-	3/4"	20	1	17,9	29,1	0,3	85	128	340	70	225	0,64
TB-THP-020	-			2		30,7		125	188	500			1,10
TB-HP-025	TB-HP-025-321	1"	25	1	24,2	38,0	0,4	78	117	312	85	215	1,46
TB-THP-025	TB-THP-025-321			2		40,0		124	186	496		260	1,83
TB-HP-032	TB-HP-032-321	1.1/4"	32	1	30,7	46,5	0,4	65	98	260	105	300	1,73
TB-THP-032	TB-THP-032-321			2		49,0		115	173	460			2,50
TB-HP-040	TB-HP-040-321	1.1/2"	40	1	39,3	54,9	0,4	61	92	244	130	280	2,10
TB-THP-040	**			2		57,4		90	135	360		340	3,10
TB-HP-050	-	2"	50	1	49,0	67,3	0,5	55	83	220	160	390	2,95
TB-THP-050	-			2		69,8		78	117	312			4,20
*TB-HP-065***	-	2.1/2"	65	1	64,0	83,9	0,5	52	78	204	200	460	3,8
TB-THP-065	-			2		86,9		75	113	300			5,3
TB-HP-080	-	3"	80	1	78,7	99,0	0,5	25	38	100	240	660	4,7
TB-THP-080	-			2		102,0		50	75	200			6,4
-	TB-HP-100-321	4"	100	1	101,0	129,5	0,6	24	36	96	290	750	7,1
-	TB-THP-100-321			2		132,5		45	68	180			9,8
-	**	5"	125	1	124,0	155,0	~	20	30	80	350	1000	~
-	TB-THP-125-321			2		158,0		38	57	152			~
-	*TB-XHP-150-321***	6"	150	3	155,0	188,0	~	34	51	136	400	1550	~
-	*TB-XHP-200-321***	8"	200	3	204,0	253,5	~	30	45	120	520	2000	~

* - bend radius measured to the centreline of the hose; ** - on special request