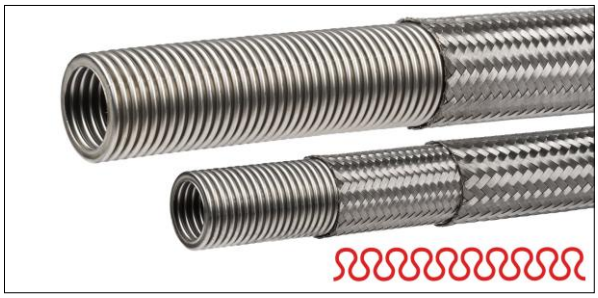
Stainless steel hoses



HP / THP / XHP

Hydroformed steel hose for high pressures

Inner layer: corrugated hose made of AISI 316L or AISI 321 stainless steel sheet
Reinforcement: single, double or triple AISI 304 steel braid
Working temperature: from -273°C to +600°C (pressure pressure dependent on temperature)

Special **high-pressure** stainless steel hose of French manufacture. Hose with thickened wall and parallel, tightly spaced "omega"-shaped corrugations produced by **hydroforming**. Hose reinforced with high-strength braid: single (type HP), double (type THP) and triple (type XHP), providing exceptionally high working pressure. Safety factor 4:1. Designed for conveying liquids and gases, in applications requiring high working pressure, good flexibility and long service life in harsh conditions. Used for technical gases, steam, compressed air, in engine, pump, compressor, turbine, power plant and industrial press installations, etc. The THP 300 version with increased working pressure is intended especially for high-pressure gas cylinder lines. The hose is supplied as ready complete lines (hoses) with welded-on ends, according to customer 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 table for AISI 316 or 321 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).



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 braid)	index (AISI 321 steel hose, AISI 304 braid)	size		quantity braids	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]
		[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 hose centre line; ** - by special order