



HP/ THP/ XHP

Stainless steel annularly corrugated metal hose

The **HP, THP and XHP** are high performance flexible stainless steel hoses, annularly corrugated, for use in high pressure applications. The manufacturing process of the high pressure series, hydroformed, reinforced walls, with narrow corrugation, guarantees a product of high leak tightness (max. on demand 1×10^{-9} mb l/s). Additional, the Omega shaped corrugation profile ensures an exceptionally good compromise flexibility/ high pressure resistance. Design and type test in accordance with EN ISO 10380.

Materials:

Corrugated hose: stainless steel 1.4404 (similar to AISI 316 L) or stainless steel 1.4541 (similar to AISI 321)

Braid(s): stainless steel 1.4301 (similar to AISI 304) or 1.4306 (similar to AISI 304L)

Available:

HP: with 1 braid

THP: with 2 braids

XHP: with 3 braids.

Reduction factors at heavy-duty conditions see EN ISO 10380.

Application fields:

Transport of liquid or gaseous media, which make high demands on pressure resistance, flexibility and durability in harsh environments: transfer of industrial gases, steam engines, turbines, plate presses ...

DN [mm]	Type braid [-]	Inner Ø Di [mm]	outside Ø Da [mm]	Tolerance outside- Ø [mm]	Bend radius		max. adm. pressure 20°C [bar]	Burst pressure 20°C [bar]	BOA item n° Material: 1.4404 [-]	BOA item n° Material: 1.4541 [-]
					stat. Rs [mm]	dyn. Rd [mm]				
6	HP	5,9	11.4	± 0.3	25	110	180	720	0000013518	0000013526
	THP		13.0							
10	HP	10.0	17.8	± 0.3	38	150	145	580	0000013519	0000013527
	THP		19.4							
12	HP	11.8	20.2	± 0.4	45	165	140	560	0000013520	0000013528
	THP		21.8							
20	HP	17.9	29.1	± 0.4	70	225	85	340	0000013521	0000013529
	THP		30.7							
25	HP	24.2	38.0	± 0.4	85	215	78	312	0000013522	0000013549
	THP		40.0							
32	HP	30.7	46.5	± 0.5	105	300	65	260	0000017250	0000013550
	THP		49.0							
40	HP	39.3	54.9	± 0.5	130	280	61	244	0000013523	0000013551
	THP		57.4							
50	HP	49.0	67.3	± 0.6	160	390	55	220	0000013524	0000013532
	THP		69.8							

DN [mm]	Type braid [-]	Inner ∅ Di [mm]	outside ∅ Da [mm]	Tolerance outside- ∅ [mm]	Bend radius		max. adm. pressure 20°C [bar]	Burst pressure 20°C [bar]	BOA item n° Material: 1.4404 [-]	BOA item n° Material: 1.4541 [-]
					stat. Rs [mm]	dyn. Rd [mm]				
65	HP THP	64.0	83.9 86.9	-0.3/+0.6	200	460	52	204	0000024928	0000024929
							75	300		
80	HP THP	78.7	99.0 102.0	± 0.6	240	660	25	100	0000013525	0000013533
							50	200		
100	HP THP	101.0	129.5 132.5	± 0.8	290	750	24	96		0000013552 0000013557
							45	180		
125	HP THP	124.0	155.0 158.0	± 1.0	350	1000	20	80		*
							38	152		
150	XHP	155.0	188.0	± 0.5	400	1550	34	136	*	*
200	XHP	204.0	253.5	± 0.6	520	2000	30	120		*

* on request

Useful data for placing an inquiry or order:

- Product name: **BOA HP/THP/XHP**
- BOA item n°: (00000-)
- DN
- Material
- Type/ braid
- Quantity

The three leaflets for metal hoses and metal hose assemblies "Technical Information", "Installation Instructions" and "Guarantee/ Delivery terms/ Conditions" are integrating part of the present product data sheet.