



PARRAP®

Annularly corrugated stainless steel hose

PARRAP® is a high performance flexible stainless steel corrugated hose for use in the most extreme environments (-273°C to 600°C), which is impervious to natural ageing. The hydroforming technology used to manufacture PARRAP® close pitch hose ensures high flexibility, excellent geometry and accuracy. Design and type test in accordance with EN ISO 10380.

Materials:

Corrugated hose: stainless steel 1.4404 (similar to AISI 316 L) or 1.4541* (similar to AISI 321)
*except for DN6, 8, 10, 125

Braid: stainless steel 1.4301 (similar to AISI 304)

Available without (0), with one (A) or two highly compact braids (B).

Reduction factors at heavy-duty conditions see „Technical Instructions for Metal Hoses and Metal Hose Assemblies“.

Application fields:

- all kinds of fluid transfer applications for liquids or gases
- vacuum technology
- cryogenics (EN 12434)
- petrochemical industry
- nuclear industry
- instrumentation
- air conditioning

DN	Braid type	∅ Inside	∅ Outside	∅ Tolerance outside	Bend radius stat. Rs	dyn. Rd	Max. allowable pressure 20°C	Burst pressure 20°C	BOA item n° Material: 1.4404	BOA item n° Material: 1.4541
[mm]	[-]	[mm]	[mm]	[mm]	[mm]	[mm]	[bar]	[bar]	[-]	[-]
6	0		9.8		9	-	18	> 72	0000013351	-
	A	6.0	11.4	± 0.3	20	110	150	600	0000013366	-
	B		13.0		25	140	175	700		-
8 ¹⁾	0		13.6		12	-	9	> 36	0000013352	-
	A	8.3	15.2	± 0.3	20	130	115	460	0000013367	-
	B		16.8		32	130	158	632		-
10 ¹⁾	0		16.2		14	-	6	> 24	0000013353	-
	A	10.1	17.8	± 0.3	20	150	115	460	0000013368	-
	B		19.4		38	150	135	540		-
12 ¹⁾	0		18.6		21	-	6	> 24	0000013354	0000013461
	A	12.0	20.2	± 0.4	25	124 ²⁾	80	320	0000013369	0000013473
	B		21.8		45	124 ²⁾	125	500	0000013381	
15 ¹⁾	0		22.5		26	-	3	> 12	0000013355	0000013463
	A	15.0	24.1	± 0.4	32	146 ²⁾	63	252	0000013370	0000013475
	B		25.7		58	146 ²⁾	97	388	0000013382	
20 ¹⁾	0		28.3		32	-	2.2	> 9	0000013356	0000013464
	A	19.9	29.9	± 0.4	38	169 ²⁾	55	220	0000013371	0000013476
	B		31.5		70	169 ²⁾	77	308	0000019235	
25 ¹⁾	0		34.8		37	-	1.8	> 8	0000013357	0000013465
	A	24.9	36.4	± 0.4	45	195 ²⁾	40	160	0000013372	0000013477
	B		38.0		85	195 ²⁾	62	248	-	0000019733
32 ¹⁾	0		43.4		46	-	1.6	> 7	0000013358	0000013466
	A	31.8	45.4	± 0.5	58	225 ²⁾	40	160	0000013373	0000013478
	B		47.4		105	225 ²⁾	58	232	0000013383	-
40 ¹⁾	0		52.4		55	-	1.2	> 5	0000013359	0000013467
	A	39.6	54.4	± 0.5	70	255 ²⁾	32	128	0000013374	0000013479
	B		56.4		113	255 ²⁾	44	176	-	0000013485



50 ¹⁾	0		64.8		65	.	1.0	> 4	0000013360	0000013468
	A	49.4	67.3	± 0.6	85	293 ²⁾	32	128	0000013375	0000013480
	B		69.8		136	293 ²⁾	47	188	-	0000013486
65	0		80.9		80	-	0.5	> 2	0000013361	0000013469
	A	64.0	83.4	± 0.7	105	345 ²⁾	25	100	0000013376	0000013481
	B		85.9		171	345 ²⁾	41	164	0000019946	0000013487
80 ¹⁾	0		99.6		97	-	0.7	> 3	0000013362	0000013470
	A	78.7	102.6	± 0.8	180	495 ²⁾	23	92	0000013377	0000013482
	B		105.6		224	495 ²⁾	40	160	0000013384	0000013488
100 ¹⁾	0		126.5		113	-	0.4	> 2	0000013363	0000013471
	A	101.0	129.5	± 0.8	218	563 ²⁾	15	60	0000013378	0000013483
	B		132.5		276	563 ²⁾	27	108	0000013385	0000013489
125	0		152.0		132	-	0.25	> 1	0000013364	-
	A	125.2	155.0	± 1.0	255	1000	13	52	0000013379	-
	B								0000013386	-
150 ¹⁾	0		174.0		152	-	0.2	> 1	0000013365	0000013472
	A	148.2	177.0	± 1.0	290	1250	11	44	0000013380	0000013484
	B								0000013387	

¹⁾ Very good lifetime resistance (50 000 Cycles - 5 times superior to the EN ISO 10380 Standard)

²⁾ Reduced bending radius (EN ISO 10 380 Standard Improved by 25%)

Useful data for placing an inquiry or order:

- Item description: PARRAP®
- BOA item n° (.....)
- Material
- DN
- Braid type
- 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.