



PARNOR®

Annularly corrugated stainless steel hose

PARNOR® is a hydraulically formed, very flexible, corrugated metal hose. Excellent for use in extreme environments (-273°C to 600°C). Provides high security and extended life time even under extreme working conditions (frequent movements, vibrations, pressure or vacuum). Excellent vibration absorber and chemically resistant against a wide range of highly corrosive products.

The manufacturing technology ensures a “zero-leak” product (in accordance with EN ISO 9001:2008).

Design and type approval in accordance with ISO-10380 standard.

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)

Special materials on request.

Available unbraided (0), with one (A) or two braids (B).

Application fields:

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

* very good life time resistance: 50.000 cycles – 5 times superior to the EN ISO 10380 standard.

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

DN [mm]	Braid type [-]	Ø Inside [mm]	Ø Outside [mm]	Tolerance outside [mm]	Bend radius		Max. allowable 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	0		9.8		10	-	18	>72	0000013223	-
	A	6.2	11.4	± 0,3	23	110	140	560	0000013238	-
	B		13.0		25	140	145	580	0000013253	-
8 ¹⁾	0		13.6		14	-	14	>56	0000013224	-
	A	8.5	15.2	± 0,3	28	130	115	460	0000013239	-
	B		16.8		32	130	121	484	-	-
10 ¹⁾	0		16.2		16	-	10	>40	0000013225	-
	A	10.4	17.8	± 0,3	32	150	100	400	0000013240	-
	B		19.4		38	150	105	420	0000013254	-
12 ¹⁾	0		18.6		24	-	12	>48	0000013226	0000013300
	A	12.4	20.2	± 0,4	39	165	80	320	0000013241	0000013313
	B		21.8		45	165	97	388	-	0000017100
15 ¹⁾	0		22.5		29	-	7.5	>30	0000013227	0000013301
	A	15.4	24.1	± 0,4	50	195	63	252	0000013242	0000013314
	B		25.7		58	195	77	307	0000013255	-
20 ¹⁾	0		28.3		35	-	4.3	>18	0000013228	0000013302
	A	20.3	29.9	± 0,4	60	225	50	200	0000013243	0000013315
	B		31.5		70	225	68	272	0000013256	0000019118



DN	Braid type	∅ Inside	∅ Outside	∅ Tolerance outside	Bend radius		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]	stat. Rs	dyn. Rd	[bar]	[bar]	[-]	[-]
25 ¹⁾	0		34.8		42	-	3	>12	0000013229	0000013304
	A	25.4	36.4	± 0,4	73	260	40	160	0000013244	0000013317
	B		38.0		85	260	55	220	0000013257	0000013326
32 ¹⁾	0		43.3		51	-	3.3	>14	0000013230	0000013306
	A	32.3	45.4	± 0,5	90	300	40	160	0000013245	0000013319
	B		47.4		105	300	55	220	0000013258	0000013327
40 ¹⁾	0		52.4		61	-	2.2	>9	0000013231	0000013307
	A	40.2	54.4	± 0,5	115	340	32	128	0000013246	0000013320
	B		56.4		130	340	44	176	0000013259	0000013328
50 ¹⁾	0		64.8		73	-	2.1	>9	0000013232	0000013308
	A	50,5	67.3	± 0,6	140	390	32	128	0000013247	0000013321
	B		69.8		160	390	45	180	0000013260	0000013329
65	0		80.9		89	-	1.3	>6	0000013233	0000013309
	A	64.9	83.4	± 0,7	175	460	25	100	0000013248	0000013322
	B		85.9		200	460	38	152	0000013261	0000013330
80 ¹⁾	0		99.6		108	-	1.4	>6	0000013234	0000013310
	A	79.6	102.6	± 0,8	240	660	23	92	0000013249	0000013323
	B		105.6		240	660	38	152	0000013262	0000013331
100 ¹⁾	0		126.5		126	-	0.5	>2	0000013235	0000013311
	A	101.5	129.5	± 0,8	290	750	15	60	0000013250	0000013324
	B		132.5		290	750	25	100	0000013263	0000013332
125	0		152.0		147	-	0.4	>2	0000013236	-
	A	126	155.0	± 1,0	340	1000	13	52	0000013251	-
	B								0000013264	-
150	0		174.0		169	-	0.3	>25	0000013237	0000013312
	A	149	177.0	± 1,0	390	1250	11	44	0000013252	0000013325
									0000013265	0000013333

¹⁾ very good life time resistance: 50.000 cycles – 5 times superior to the EN ISO 10380 standard.

Useful data for placing an inquiry or order:

- Item description: PARNOR®
- BOA item n° (M-)
- 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.