Corrugated metal hose assemblies

OIL & GAS

Corrugated metal hose assemblies

APPLICATIONS

For transferring aggressive and corrosive chemicals, gas and oil.
Requiring resistance to high temperatures or use under high pressure.
(Gas, steam, cryogenics, solvents, petrol.)

AVANTAGES

- Can work at very low (-250°C) up to very high (+550°C) temperatures, depending on the conveyed fluid.
- Highly resistant to temperature changes.
- Exposure to high heat, fire, abrasion, corrosion and mold.
- Use under high pressure or vacuum.
- Vibration absorption.

Optional services:

- Electrical tracing to maintain or warm the fluid being transferred.
- Double-jacket to maintain the temperature of the fluid being transferred.
- Tapping to take a temperature reading or sample of the fluid being transferred.

STANDARDS/APPROVAL

ISO 10380:2012

EN 21012:2018 Cryogenics

DESP 2014/68/UE

TMD

Welding qualification ISO 9606-1 & ISO 15614-1

TECHNICAL DESCRIPTION

Inner tube: corrugated stainless steel 316, 321 or Hastelloy C276.
Braid(s): high tensile 304 stainless steel.
Available in single, double or triple braid for high pressure.

Optional:
Cover: silicone glass fiber or polypropylene braid.
Anti-flexion spring and protection helix in 302 stainless steel or galvanized steel.

Temperature : -250°C to +550°C.

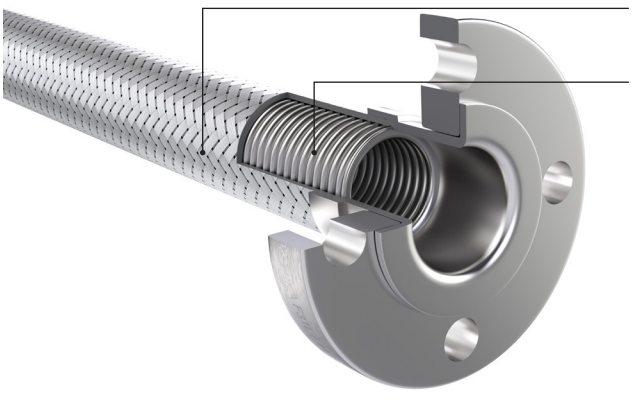
Diameter range: available from 1/4'' (6 mm) up to 16'' (400mm).

Electrical properties: can be used in ATEX zones.

Compliant with ISO 10380:2012, EN 21012:2018 for cryogenic application and with the European Directive 2014/68/EU for pressure equipment (PED).
Qualification/approval of welders in accordance with EN ISO 9606-1 and qualification of welding procedure ISO 15614-1.

COUPLINGS/FITTINGS

Made to order with all types of stainless steel fittings.



ID		NUMBER OF BRAID(S)	OD	MIN BENDING RADIUS		MAX PRESSURE (20°C)		WEIGHT
				Static	Dynamic	Working pressure	Testing pressure	
inch	mm		mm	mm	mm	bar	bar	gr/m
1/4''	6	1	11	16	110	167	251	170
		2	13	25		220	330	250
5/16''	8	1	13	20	130	136	204	230
		2	15	32		210	315	330
3/8''	10	1	16	22	150	100	150	280
		2	18	38		178	267	390
1/2''	12	1	21	24	165	74	111	430
		2	22	45		103	155	600
5/8''	15	1	23	28	195	70	105	450
		2	25	50		125	188	620
3/4''	20	1	27	30	200	65	98	620
		2	29	70		86	129	870
1''	25	1	36	44	200	50	75	880
		2	38	85		76	114	1300
1 1/4''	32	1	43	55	250	39	59	1100
		2	45	105		57	86	1600
1 1/2''	40	1	50	70	250	35	53	1400
		2	52	127		55	83	1900
2''	50	1	64	90	350	30	45	1900
		2	66	160		44	66	2700
2 1/2''	65	1	79	110	410	26	39	2800
		2	81	200		46	69	3700
3''	80	1	92	130	450	22	33	3400
		2	94	230		40	60	4500
4''	100	1	128	254	508	17	26	4464
		2	133	254		26	39	5950
5''	125	1	152	305	610	14	21	5950
		2	152	305		17	25	7436
6''	150	1	181	381	762	15	23	5950
		2	187	381		21	31	8928
8''	200	1	240	508	1016	15	22	11903
		2	249	508		19	28	17853
10''	250	1	279	635	1270	14	24	17853
		2	279	635		19	28	23803
12''	300	1	343	762	1524	11	16	25292
		2	351	762		15	23	34220
14''	350	1	381	889	1778	10	15	34220
		2	381	889		13	20	43145
16''	400	1	432	1016	2032	8	11	35706
		2	432	1016		12	18	31242

Tolerance on length ±1% (ISO 1307 Standard).

● Upon availability

Temperature adjustment coefficient – NF EN ISO 10380:2012

Temperature °C			20	50	100	150	200	250	300	350	400	450	500	550	600	650
Material	316	1.4404	1	0.88	0.74	0.67	0.62	0.58	0.54	0.52	0.5	0.48	0.47	0.47	-	-
	321	1.4541	1	0.92	0.83	0.78	0.74	0.71	0.67	0.64	0.62	0.61	0.6	0.59	-	-
	Hastelloy C276	2.4819	1	0.97	0.92	0.88	0.83	0.79	0.74	0.72	0.7	-	-	-	-	-

TRELLEBORG