

Stainless Steel Hose Type 310/311

Type 310

Stainless steel corrugated hose without braiding

Type 311

Stainless steel corrugated hose with braiding

Design

Parallel corrugated all-metal hose manufactured from butt welded pipe. Available with or without braiding.

Hose materials

Standard: 1.4541/DIN17440

Special material: 1.4571/DIN17440

Braiding

Standard: 1.4301

Also available in 1.4571 or 1.4541 on request.

Other special materials are available for hose and braiding subject to specific order quantities on request.

Temperature

Operating range from -270°C to max. +600°C possible.

Bending radius

Use the following table as a guide.

Distinction must be made between: Minimum bending radius with single bending and normal bending radius for frequent bending.

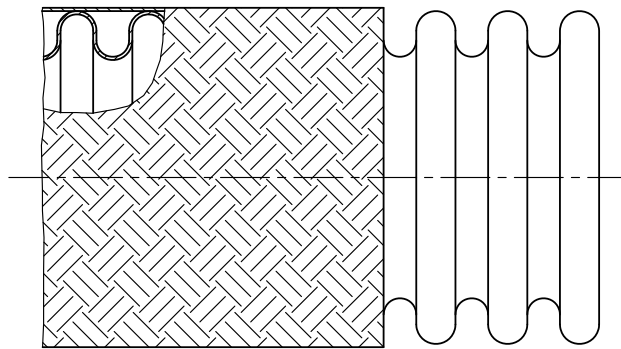
Material connection

Available are various types of connections that are shown on the following page. These connections are available in diverse materials.

The following table contains selection criteria:

Selection criteria		Material of the connections				
No.	Indication (draft page 54)	Steel	Stainless steel	Brass	Malleable cast iron	Red cast
001	Collar loose flange	X	X			
002	Fixed flange	X	X			
003	Pipe fixed flange	X	X			
004	Pipe collar loose flange	X	X			
005	Flared tube end loose flange	X	X			
006	Tube socket / weld end	X	X	X	X	
007	Conical outside threading	X	X	X	X	X
008	Bushing	X	X	X	X	X
009	Cylindrical outside threading	X	X	X	X	X
010	Hexagonal bushing	X	X	X	X	X
011	Conical screw fitting with outside threading	X	X		X	X
012	Conical screw fitting with inside threading	X	X		X	X
013	Flat sealed screw fitting with outside threading	X	X		X	X
014	Flat sealed screw fitting with inside threading	X	X		X	X
015	Socket union nut	X	X	X	X	X

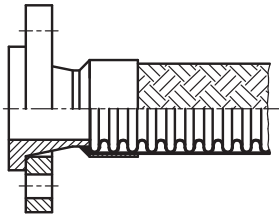
Further connections on request.



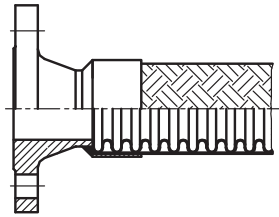
Characteristics

Inch	Inner-Ø	Tolerance (inner)	Type	Outer-Ø	Tolerance (outer)	Pressure	Nominal bend radius	Minimum bend radius	Weight ± 10 %
	mm			mm			mm	Frequently bending	
3/8	10.6	0.3	310	16.1	0.6	5.0	125	35	150
			311	17.5	0.8	75.0	190	35	300
1/2	12.9	0.3	310	19.3	0.6	5.0	140	35	160
			311	20.8	0.8	70.0	210	35	320
5/8	15.7	0.4	310	23.7	0.8	4.0	190	45	250
			311	25.2	1.0	65.0	285	45	500
3/4	19.8	0.4	310	28.8	0.8	3.0	215	55	280
			311	30.3	1.0	50.0	310	55	530
1	25.8	0.4	310	34.5	0.8	3.0	250	70	380
			311	36.0	1.0	40.0	375	70	750
1 1/4	33.0	0.4	310	43.7	0.8	3.0	270	80	420
			311	45.7	1.0	35.0	405	80	950
1 1/2	40.0	0.5	310	52.0	1.0	2.0	320	100	700
			311	54.0	1.2	30.0	480	100	1350
2	51.6	0.5	310	65.5	1.0	1.0	360	130	880
			311	67.5	1.2	25.0	550	130	1600
2 1/2	66.0	0.6	310	85.4	1.2	1.0	450	175	1250
			311	87.9	1.4	20.0	675	175	2600
3	76.6	0.6	310	97.5	1.2	1.0	500	200	1750
			311	100.0	1.4	18.0	750	200	3200
4	103.0	1.0	310	125.0	1.2	1.0	600	250	2100
			311	128.0	1.4	14.0	920	250	4400
5	127.5	1.0	310	151.5	1.2	1.0	750	325	3250
			311	154.5	1.4	12.5	1160	325	5750
6	151.5	1.0	310	177.0	1.2	0.8	850	375	4000
			311	180.0	1.4	10.0	1320	375	6900

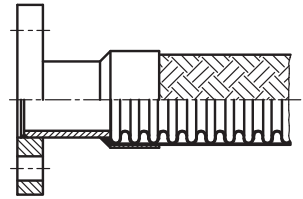
Connection options for stainless steel hoses type 310/311



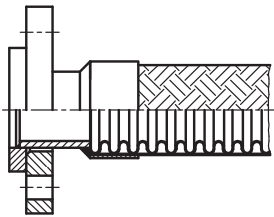
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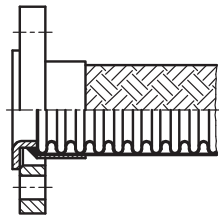
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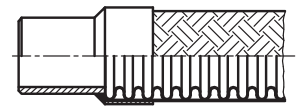
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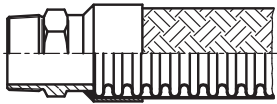
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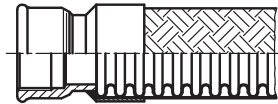
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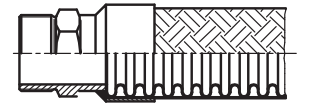
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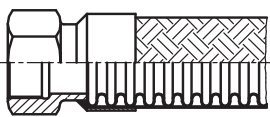
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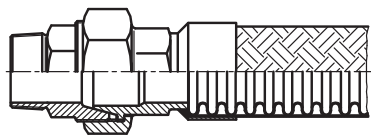
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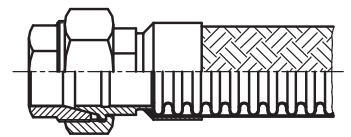
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011



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