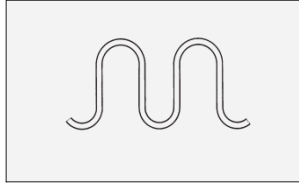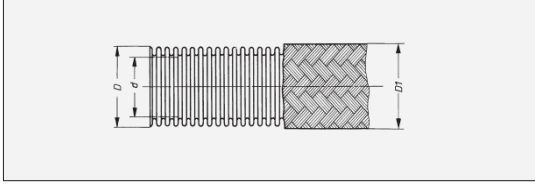## Annular Corrugated Stainless steel hose type RS531

Heavy Version, Standard Corrugated

Construction:

Annularly corrugated all-metal hose made
of butt-welded tube with or without braiding.

Versions:

• RS …**S00** without braiding

• RS …**S12** with single stainless steel wire braiding

• RS …**S22** with double stainless steel wire braid

• RS …**S42** with single stainless steel braided braid

• RS …**S52** with double stainless steel braided braid

• RS …**S92** with double stainless steel braiding
  Special design

Type tests:

The hose type is tested in accordance with
DIN EN ISO 10380.

Material of hose:

stainless austenitic steel to DIN EN ISO 10088-2,bright

• standard: material no. 1.4404 comparable with AISI 316L

• standard: material no. 1.4541 comparable with AISI 321

• other materials:
  material no. 1.4571 comparable with AISI 316Ti on request

Material of braiding:

• material no. 1.4301 comparable with AISI 304

• material no. 1.4306 comparable with AISI 304L

• material no. 1.4571 comparable with AISI 316Ti on request.

Maximum Production Lengths:

• DN 5-16   100 m

Temperature range:

-270 °C up to max. 600 °C (only for the hose)

Operating pressure:

The following tables with technical data of metal
hoses contain two pressure values.
Please refer to the general information on page 2.
SF = Bursting Safety Factor 4, static or dynamic.

Connection fittings:

• flanges

• threaded connections

• welding ends

• customized connections on request

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DN	Type	Inside diameter	Outside diameter	Permissible deviation	Minimum bending radius one bending process	Nominal bending radius frequent bending	Perm. static operating pressure at 20 °C SF 4	Nominal pressure DIN EN ISO 10380 SF 4	Weight. approx.
–	–	d	D, D1	d, D, D1	r_{min}	r_n	P_{zul}	–	–
–	–	mm	mm	mm	mm	mm	bar	PN	kg/m
5	RS531S00 RS531S12 RS531S22	5.3	9.1 10.2 11.3	±0.2	15 25 35	100	25 150 200	25 200 200	0.10 0.16 0.22
6	RS531S00 RS531S12 RS531S22	6.2	10.2 11.6 13.0		15 25 40	110	50 200 250	50 200 250	0.12 0.23 0.33
8	RS531S00 RS531S12 RS531S22	8.0	12.9 14.5 16.1		20 32 50	130	50 200 250	50 200 250	0.20 0.35 0.49
10	RS531S00 RS531S12 RS531S22	10.0	15.9 17.5 19.1	±0.3	25 38 60	150	25 150 225	25 150 200	0.29 0.48 0.66
12	RS531S00 RS531S12 RS531S22	12.1	18.7 20.3 21.9		30 45 70	165	25 100 200	25 100 200	0.41 0.62 0.82
16	RS531S00 RS531S12 RS531S22	16.1	23.8 25.8 27.8		40 58 90	195	20 150 200	20 150 200	0.55 0.92 1.29