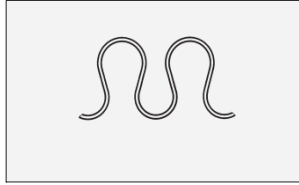
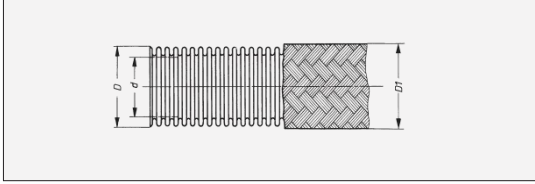


## Annular Corrugated Stainless steel hose type RS321

Medium Version, Narrow Corrugated, Highly Flexible



### 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

### 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. 1.4571 comparable with AISI 316Ti on request.

### Maximum Production Lengths:

- DN 6-32      70 m
- DN 40-50    20 m
- DN 65-100   7 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 <sub>min</sub>                           | r <sub>n</sub>                          | P <sub>zul</sub>                              | -                                      | -               |
| -   | -        | mm              | mm               | mm                    | mm   | mm                                      | bar   | PN                                     | kg/m            |
| 6   | RS321S00 | 6.1             | 9.9              | ±0.2                  | 20   | 70                                      | 25  | 25                                     | 0.10            |
|     | RS321S12 |                 | 11.0             |                       | 25   |   | 100   | 100                                    | 0.17            |
| 8   | RS321S00 | 8.2             | 12.5             |                       | 25   | 80                                      | 16  | 16                                     | 0.14            |
|     | RS321S12 |                 | 13.9             |                       | 30   |   | 100   | 100                                    | 0.25            |
| 10  | RS321S00 | 10.1            | 14.4             |                       | 30   | 90                                      | 10  | 10                                     | 0.14            |
|     | RS321S12 |                 | 15.8             |                       | 35   |   | 80  | 80                                     | 0.26            |
| 12  | RS321S00 | 12.4            | 17.1             |                       | 35   | 100                                     | 8   | 8                                      | 0.17            |
|     | RS321S12 |                 | 18.5             |                       | 40   |   | 50  | 50                                     | 0.30            |
| 16  | RS321S00 | 16.2            | 22.0             |                       | 40   | 110                                     | 6   | 6                                      | 0.26            |
|     | RS321S12 |                 | 23.6             |                       | 50   |   | 50  | 50                                     | 0.46            |
| 20  | RS321S00 | 20.2            | 26.7             | ±0.3                  | 50   | 130                                     | 4   | 4                                      | 0.31            |
|     | RS321S12 |                 | 28.4             |                       | 55   |   | 40  | 40                                     | 0.53            |
| 25  | RS321S00 | 25.1            | 32.2             |                       | 60   | 150                                     | 4   | 4                                      | 0.49            |
|     | RS321S12 |                 | 34.2             |                       | 65   |   | 40  | 40                                     | 0.90            |
| 32  | RS321S00 | 34.2            | 41.0             |                       | 70   | 200                                     | 2.5   | 2.5                                    | 0.50            |
|     | RS321S12 |                 | 43.0             |                       | 75   |   | 20  | 20                                     | 0.97            |
| 40  | RS321S00 | 40.0            | 49.8             | ±0.4                  | 80   | 210                                     | 1   | 1                                      | 1.13            |
|     | RS321S12 |                 | 52.1             |                       | 90   |   | 30  | 20                                     | 1.81            |
| 50  | RS321S00 | 50.1            | 60.5             | ±0.5                  | 100  | 240                                     | 1   | 1                                      | 1.34            |
|     | RS321S12 |                 | 62.8             |                       | 110  |   | 25  | 16                                     | 2.10            |
| 65  | RS321S00 | 65.0            | 78.2             |                       | 145  | 280                                     | 1   | 1                                      | 1.96            |
|     | RS321S12 |                 | 81.4             |                       | 200  |   | 20  | 16                                     | 3.33            |
| 80  | RS321S00 | 80.0            | 95.0             |                       | 200  | 400                                     | 1   | 1                                      | 3.12            |
|     | RS321S12 |                 | 98.2             |                       | 240  |   | 16  | 10                                     | 4.92            |
| 100 | RS321S00 | 99.4            | 116.8            | ± 0.6                 | 240  | 500                                     | 1   | 1                                      | 3.70            |
|     | RS321S12 |                 | 120.0            |                       | 290  |   | 16  | 4                                      | 5.71            |



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