

Tuyaux Flexibles Rudolph is a world leader for flexible metallic tubes for standard and special industrial application.

Technical guide for bellows and expansion joints



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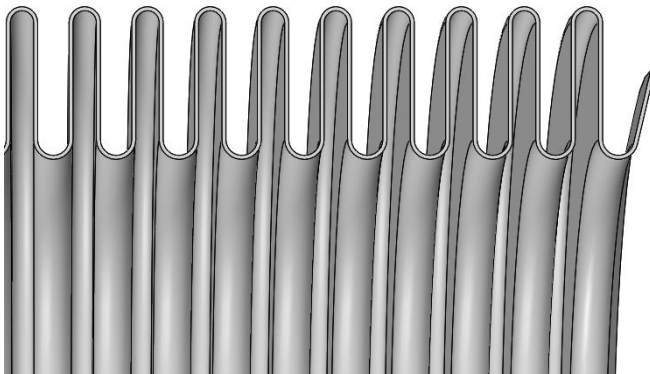
A presence in the majority of industrial sectors

Subject to technical modification

For any special request (ND, material or connection mode), please call us.

I. SFT 104 : Mechanical formed bellow

SFT 104



Features

ND : 6 to 100 mm
 Materials : AISI 316L / AFNOR Z2 CND 17-12, Monel, Inconel, Astelloy....
 Temperature : -196 to 600°C

Applications

Axial and lateral expansion joints
 Vibration absorption
 Chemical and nuclear industry

Connections

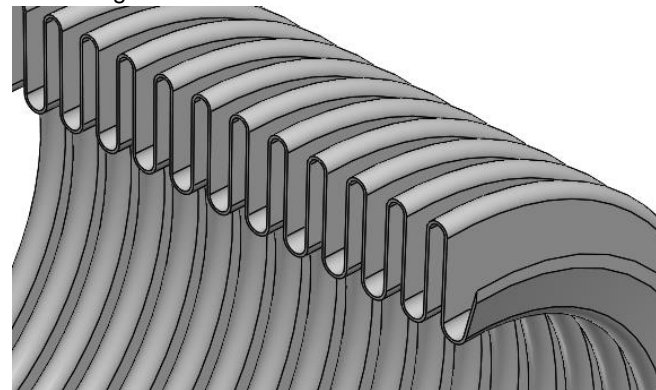
Weld end
 Flanges or flasks
 TIG welding on special components (TFR or customer product supply)
 Silver and tin brazing

Additional services

Tests and controls : Dye penetrant inspection, leaking test (under alcohol nitrogen, helium), pressure test

Example of product identification

SFT 104 INOX 316L
 ND 25 - L : 0,5 m - Qty : 10
 According to NF EN 14917



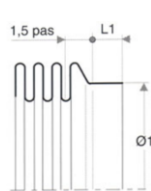
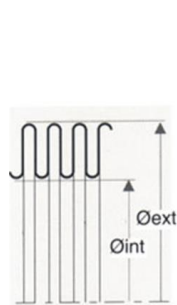
A presence in the majority of industrial sectors

Subject to technical modification

For any special request (ND, material or connection mode), please call us.

Stainless steel

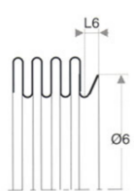
| Stainless steel | | | | | 1 plie | | | | 2 plies | | | | 3 plies | | | | | | | |
|------------------------|------|--|------|-------------------------|--------|------|----------------------------|-------|----------|------|-----------|----------------------------|---------|----------|-----------|-------|----------------------------|------|----------|------|
| Diameter \varnothing | | Cross section at average \varnothing | th. | $\Delta x/\text{conv.}$ | ND | Step | Deflection under 1 kg load | | Pressure | | Step | Deflection under 1 kg load | | Pressure | | Step | Deflection under 1 kg load | | Pressure | |
| inn. | out. | | | | | | inn. | out. | inn. | out. | | inn. | out. | inn. | out. | | inn. | out. | inn. | out. |
| (mm) | (mm) | (cm ²) | (mm) | (\pm mm) | (mm) | (mm) | (mm/onde) | (bar) | (bar) | (mm) | (mm/onde) | (bar) | (bar) | (mm) | (mm/onde) | (bar) | (bar) | | | |
| 6,5 | 9,5 | 0,50 | 0,08 | 0,13 | 5 | 1,10 | 0,048 | 23 | 62 | 1,26 | 0,024 | 40 | 108 | 1,42 | 0,016 | 57 | 155 | | | |
| 10 | 14,5 | 1,18 | 0,10 | 0,17 | 10 | 1,20 | 0,042 | 17 | 44 | 1,40 | 0,021 | 29 | 77 | 1,60 | 0,014 | 42 | 110 | | | |
| 13 | 19 | 2,01 | 0,12 | 0,41 | 12 | 1,70 | 0,067 | 17 | 44 | 1,94 | 0,034 | 29 | 77 | 2,18 | 0,022 | 42 | 110 | | | |
| 14 | 22 | 2,54 | 0,13 | 0,54 | 15 | 2,00 | 0,095 | 15 | 37 | 2,26 | 0,048 | 26 | 64 | 2,52 | 0,032 | 37 | 92 | | | |
| 15 | 23,5 | 2,91 | 0,16 | 0,66 | 15 | 2,30 | 0,095 | 18 | 46 | 2,60 | 0,048 | 31 | 80 | 2,90 | 0,032 | 45 | 115 | | | |
| 17 | 27 | 3,80 | 0,15 | 0,50 | 18 | 2,30 | 0,095 | 15 | 37 | 2,60 | 0,048 | 26 | 65 | 2,90 | 0,032 | 37 | 92 | | | |
| 21 | 31,5 | 5,41 | 0,15 | 0,50 | 20 | 2,40 | 0,083 | 14 | 34 | 2,70 | 0,042 | 24 | 59 | 3,00 | 0,028 | 35 | 85 | | | |
| 23 | 32 | 5,94 | 0,15 | 0,54 | 25 | 2,40 | 0,051 | 14 | 35 | 2,70 | 0,026 | 24 | 61 | 3,00 | 0,017 | 35 | 87 | | | |
| 26 | 38 | 8,04 | 0,17 | 0,83 | 25 | 2,90 | 0,083 | 12 | 30 | 3,24 | 0,042 | 21 | 52 | 3,58 | 0,028 | 30 | 75 | | | |
| 30 | 42,5 | 10,32 | 0,18 | 1,24 | 30 | 3,50 | 0,089 | 12 | 30 | 3,86 | 0,045 | 21 | 52 | 4,22 | 0,030 | 30 | 75 | | | |
| 31 | 45 | 11,34 | 0,18 | 0,74 | 30 | 3,00 | 0,083 | 10 | 25 | 3,36 | 0,042 | 17 | 43 | 3,72 | 0,028 | 25 | 62 | | | |
| 32 | 50 | 13,20 | 0,20 | 1,07 | 32 | 4,00 | 0,089 | 10 | 25 | 4,40 | 0,045 | 17 | 43 | 4,80 | 0,030 | 25 | 62 | | | |
| 42 | 60 | 20,43 | 0,20 | 1,24 | 40 | 4,00 | 0,103 | 9 | 22 | 4,40 | 0,052 | 16 | 38 | 4,80 | 0,034 | 22 | 55 | | | |
| 47 | 66 | 25,07 | 0,25 | 1,24 | 50 | 4,00 | 0,103 | 9 | 22 | 4,50 | 0,052 | 16 | 38 | 5,00 | 0,034 | 22 | 55 | | | |
| 55 | 77 | 34,21 | 0,27 | 1,40 | 60 | 5,00 | 0,061 | 9 | 23 | 5,54 | 0,031 | 16 | 40 | 6,08 | 0,020 | 22 | 57 | | | |
| 65 | 90 | 47,12 | 0,30 | 1,40 | 65 | 5,00 | 0,046 | 9 | 23 | 5,60 | 0,023 | 16 | 40 | 6,20 | 0,015 | 22 | 57 | | | |
| 76 | 102 | 62,21 | 0,35 | 1,40 | 80 | 5,00 | 0,023 | 9 | 22 | 5,70 | 0,012 | 16 | 38 | 6,40 | 0,008 | 22 | 57 | | | |
| 86 | 110 | 75,43 | 0,40 | 1,48 | 90 | 5,00 | 0,008 | 9 | 22 | 5,80 | 0,004 | 16 | 38 | 6,60 | 0,003 | 22 | 57 | | | |
| 95 | 121 | 91,61 | 0,40 | 1,65 | 100 | 5,50 | 0,022 | 8 | 20 | 6,30 | 0,011 | 14 | 35 | 7,10 | 0,007 | 20 | 50 | | | |



Collars n°1
for 1P, 2P, 3P
on flange
TIG welding

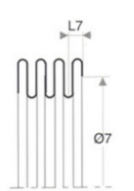
| Diameter \varnothing | ND |
|------------------------|------|
| inn. | out. |
| (mm) | (mm) |

| L1 | Ø1 | Ø1 | Ø1 |
|------|------|------|------|
| 1P | 2P | 3P | |
| (mm) | (mm) | (mm) | (mm) |



Collars n°6
for 1P, 2P, 3P
on flange or end
TIG welding

| L6 | L6 | L6 | Ø6 |
|------|------|------|------|
| 1P | 2P | 3P | |
| (mm) | (mm) | (mm) | (mm) |



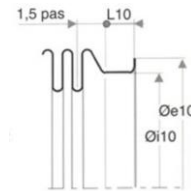
Collars n°7
for 1P, 2P, 3P
on flask
TIG welding

| L7 | L7 | L7 | Ø7 |
|------|------|------|------|
| 1P | 2P | 3P | |
| (mm) | (mm) | (mm) | (mm) |



Collars n°2
for 1P, 2P
silver brazing or
tin welding

| L2 | L2 | Ø2 |
|------|------|------|
| 1P | 2P | |
| (mm) | (mm) | (mm) |



Collars n°10
for SP
on flange or end
TIG welding

| L10 | Øi10 | Øe10 |
|------|------|------|
| (mm) | (mm) | (mm) |

| | | | | | | | | | | | | | | | | | | | | |
|-----|------|-----|----|--------|--------|--------|------|------|------|-----|-----|-----|-----|-------|------|------|-------|----|-----|------|
| 6,5 | 9,5 | 5 | 8 | 7,86 | 8,12 | 8,38 | 0,55 | 0,63 | 0,71 | 9 | 0,8 | 0,9 | 1,1 | 7,9 | 2,4 | 2,5 | 8,0 | 2 | 7,7 | 9 |
| 10 | 14,5 | 10 | 10 | 12,20 | 12,50 | 12,80 | 0,60 | 0,70 | 0,80 | 13 | 0,9 | 1,1 | 1,2 | 12,2 | 3,4 | 3,6 | 12,5 | 4 | 12 | 13,5 |
| 13 | 19 | 12 | 10 | 15,24 | 15,58 | 15,92 | 0,85 | 0,97 | 1,09 | 16 | 1,3 | 1,5 | 1,6 | 15,2 | 4,0 | 4,4 | 16,0 | 3 | 15 | 17,5 |
| 14 | 22 | 15 | 10 | 18,26 | 18,62 | 18,98 | 1,00 | 1,13 | 1,26 | 18 | 1,5 | 1,7 | 1,9 | 18,3 | 4,1 | 4,7 | 20,0 | 4 | 18 | 19,5 |
| 15 | 23,5 | 15 | 10 | 18,32 | 18,74 | 19,16 | 1,15 | 1,31 | 1,47 | 21 | 1,7 | 2,0 | 2,2 | 18,3 | 4,2 | 4,9 | 20,0 | 5 | 18 | 19,5 |
| 17 | 27 | 18 | 10 | 21,30 | 21,70 | 22,10 | 1,15 | 1,30 | 1,45 | 22 | 1,7 | 2,0 | 2,2 | 21,3 | 4,7 | 5,2 | 24,0 | 5 | 21 | 25 |
| 21 | 31,5 | 20 | 10 | 26,30 | 26,75 | 27,20 | 1,20 | 1,35 | 1,50 | 26 | 1,8 | 2,0 | 2,3 | 26,3 | 4,7 | 5,2 | 28,0 | 6 | 26 | 29 |
| 23 | 32 | 25 | 10 | 26,30 | 26,75 | 27,20 | 1,20 | 1,35 | 1,50 | 28 | 1,8 | 2,0 | 2,3 | 26,3 | 4,7 | 5,3 | 28,0 | 5 | 26 | 29 |
| 26 | 38 | 25 | 10 | 32,34 | 32,83 | 33,32 | 1,45 | 1,62 | 1,79 | 34 | 2,2 | 2,4 | 2,7 | 32,3 | 4,9 | 5,7 | 36,0 | 6 | 32 | 35 |
| 30 | 42,5 | 30 | 10 | 36,36 | 36,87 | 37,38 | 1,75 | 1,93 | 2,11 | 38 | 2,6 | 2,9 | 3,2 | 36,4 | 5,0 | 6,3 | 40,0 | 7 | 36 | 40 |
| 31 | 45 | 30 | 10 | 36,36 | 36,87 | 37,38 | 1,50 | 1,98 | 1,86 | 38 | 2,3 | 2,5 | 2,8 | 36,4 | 4,9 | 5,6 | 40,0 | 6 | 36 | 40 |
| 32 | 50 | 32 | 10 | 40,40 | 40,95 | 41,50 | 2,00 | 2,20 | 2,40 | 42 | 3,0 | 3,3 | 3,6 | 40,4 | 6,1 | 7,2 | 45,0 | 9 | 40 | 46 |
| 42 | 60 | 40 | 10 | 50,40 | 51,00 | 51,60 | 2,00 | 2,20 | 2,40 | 52 | 3,0 | 3,3 | 3,6 | 50,4 | 7,1 | 8,4 | 55,0 | 8 | 50 | 56 |
| 47 | 66 | 50 | 10 | 55,50 | 56,20 | 56,90 | 2,00 | 2,25 | 2,50 | 60 | 3,0 | 3,4 | 3,8 | 55,5 | 7,2 | 8,4 | 58,0 | 9 | 55 | 61 |
| 55 | 77 | 60 | 10 | 62,54 | 63,28 | 64,02 | 2,50 | 2,77 | 3,04 | 65 | 3,8 | 4,2 | 4,6 | 62,5 | 9,4 | 10,8 | 70,0 | 7 | 62 | 70 |
| 65 | 90 | 65 | 10 | 76,60 | 77,40 | 78,20 | 2,50 | 2,80 | 3,10 | 75 | 3,8 | 4,2 | 4,7 | 76,6 | 9,4 | 10,8 | 80,0 | 10 | 76 | 84 |
| 76 | 102 | 80 | 10 | 86,70 | 87,60 | 88,50 | 2,50 | 2,85 | 3,20 | 88 | 3,8 | 4,3 | 4,8 | 86,7 | 9,5 | 10,9 | 90,0 | 9 | 86 | 96 |
| 86 | 110 | 90 | 10 | 96,80 | 97,80 | 98,80 | 2,50 | 2,90 | 3,30 | 98 | 3,8 | 4,4 | 5,0 | 96,8 | 9,5 | 11,0 | 100,0 | 9 | 96 | 104 |
| 95 | 121 | 100 | 10 | 102,80 | 103,80 | 104,80 | 2,75 | 3,15 | 3,55 | 108 | 4,1 | 4,7 | 5,3 | 102,8 | 11,6 | 13,3 | 110,0 | 7 | 102 | 114 |

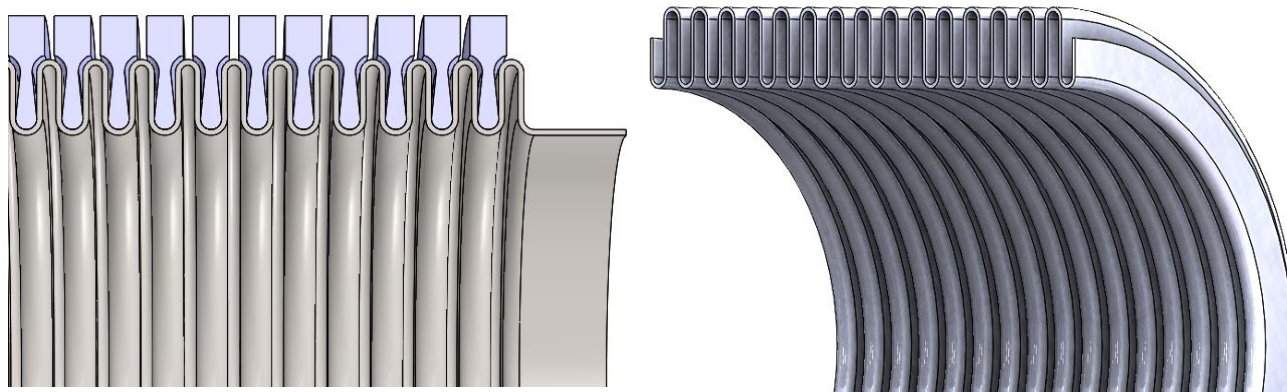
A presence in the majority of industrial sectors

Subject to technical modification

For any special request (ND, material or connection mode), please call us.

II. SFT 222 : Hydroformed bellow

SFT 222



Features

ND : 50 to 300 mm
 Materials : AISI 316L / AFNOR Z2 CND 17-12, Monel, Inconel, Astelloy....
 Temperature : -196 to 600°C

With or without convolution reinforcements

Applications

Axial and lateral expansion joints
 Vibration absorption
 Chemical and nuclear industry

Connections

Weld end
 Flanges or flasks
 TIG welding on special components (TFR or customer product supply)
 Silver and tin brazing

Additional services

Tests and controls : Dye penetrant inspection, leaking test (under alcohol nitrogen, helium), pressure test

Example of product identification

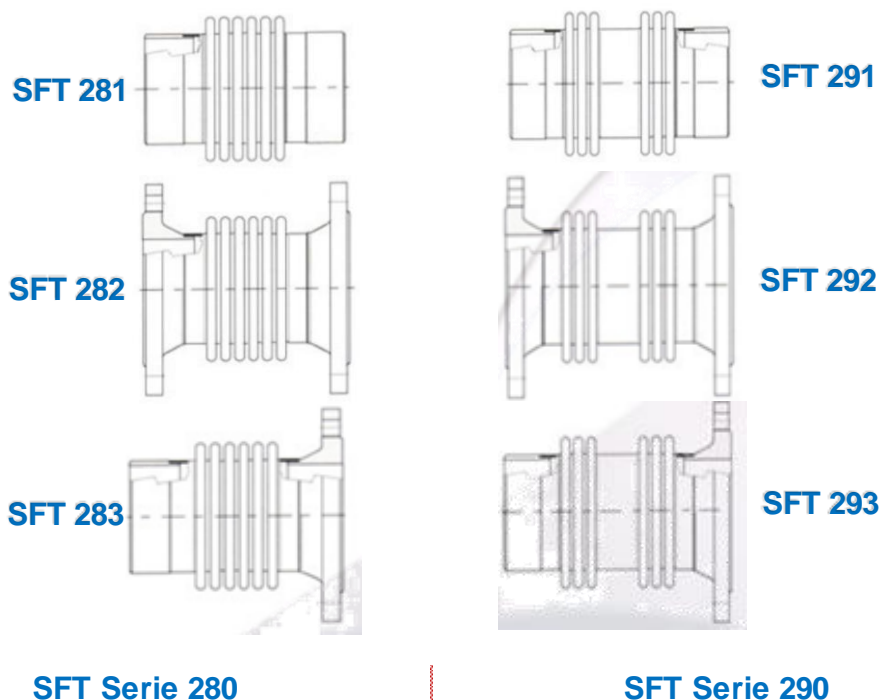
SFT 222 INOX 316L
 ND 50 - L : 0,5 m - Qty : 10
 According to NF EN 14917

A presence in the majority of industrial sectors

Subject to technical modification

For any special request (ND, material or connection mode), please call us.

III. SFT Série 280 / 290 : Bellows equipped with connections



ND 20 to 300 mm

NP 1

Max. temperature 650°C

Features

Stainless steel bellows AISI 321
Other materials on request (316L, etc...)

Anti-vibration

One-piece expansion joint with 2 convolution waves

Applications

Those bellows could be assembly in pairs with or without intermediate ferrule. It will considerably increase the allowable axial and lateral displacements

For exhaust systems

Those bellows allow axial and lateral displacements

Connections

Steel weld ends
Fixed steel flanges
Weld end and fixed steel flange

Special connections on request

Example of product identification

SFT 281 ND300 Qty 20
Double SFT 281 ND200 Qty 15
Double SFT 283 with intermediate ferrule lg 1000 ND150 Qty 5

A presence in the majority of industrial sectors

Subject to technical modification

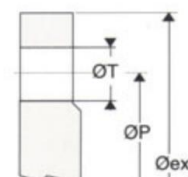
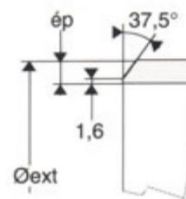
For any special request (ND, material or connection mode), please call us.

INOX 321 Bellow
Steel ends and flanges

NP 1 bar
Max. temperature 650°C

axial (Δx) or lateral (Δy) stroke

NH = number of holes



Stainless steel

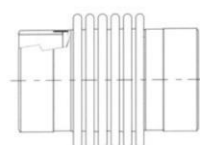
Geared bellow

End

Flange

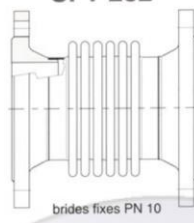
| ND | Diameter Ø | | OL | | | Δx | Δy | Ø out. th. | | Ø out. ØP NH ØT | | | | |
|------|------------|------|------|------|------|------------|------------|------------|------|-----------------|------|------|------|------|
| | inn. | out. | 281 | 282 | 283 | | | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 20 | 21 | 31 | 150 | | | 14 | 5 | 26,7 | 2,9 | 105 | 75 | 4 | 14 | |
| 25 | 26 | 38 | 150 | | | 15 | 5 | 33,7 | 3,2 | 115 | 85 | 4 | 14 | |
| 32 | 32 | 50 | 150 | | | 16 | 5 | 42,4 | 3,2 | 140 | 100 | 4 | 18 | |
| 40 | 42 | 60 | 150 | 160 | 155 | 16 | 5 | 48,3 | 3,3 | 150 | 110 | 4 | 18 | |
| 50 | 47 | 66 | 155 | 165 | 160 | 18 | 5 | 60,3 | 3,0 | 165 | 125 | 4 | 18 | |
| 65 | 61 | 85 | 160 | 170 | 165 | 20 | 7 | 76,1 | 3,0 | 185 | 145 | 4 | 18 | |
| 80 | 76 | 102 | 180 | 190 | 185 | 20 | 8 | 88,9 | 3,2 | 200 | 160 | 8 | 18 | |
| 100 | 95 | 121 | 200 | 210 | 205 | 23 | 8 | 108,0 | 3,6 | 220 | 180 | 8 | 18 | |
| 125 | 140 | 184 | 270 | 280 | 275 | 25 | 10 | 139,7 | 4,5 | 250 | 210 | 8 | 18 | |
| 150 | 168 | 220 | 270 | 280 | 275 | 25 | 10 | 168,3 | 4,5 | 285 | 240 | 8 | 22 | |
| 175 | 194 | 254 | 280 | 290 | 285 | 26 | 10 | 193,7 | 5,4 | 315 | 270 | 8 | 22 | |
| 200 | 219 | 287 | 320 | 330 | 325 | 32 | 12 | 219,1 | 5,9 | 340 | 295 | 8 | 22 | |
| 250 | 269 | 337 | 320 | 330 | 325 | 32 | 12 | 273,0 | 6,3 | 395 | 350 | 12 | 22 | |
| 300 | 319 | 387 | 320 | 330 | 325 | 32 | 12 | 323,9 | 7,1 | 445 | 400 | 12 | 22 | |

SFT 281



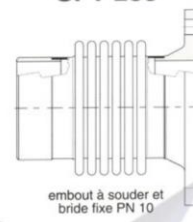
embouts à souder

SFT 282



brides fixes PN 10

SFT 283



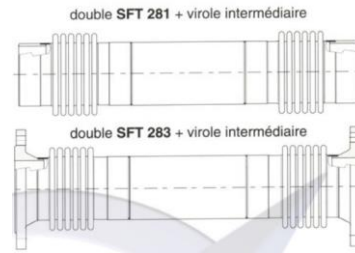
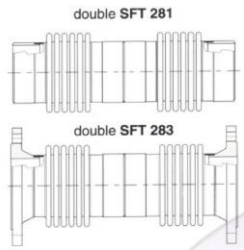
embout à souder et
bride fixe PN 10

OL = Overall Length

A presence in the majority of industrial sectors

Subject to technical modification

For any special request (ND, material or connection mode), please call us.



| ND | Double SFT 281/283 | | | | Double SFT 281/283 with intermediate ferrule lg 500 | | | | Double SFT 281/283 with intermediate ferrule lg 1000 | | | | Double SFT 281/283 with intermediate lg 1500 | | | |
|-----|--------------------|-------------------|------------------------|------------------------|---|--------------------|------------------------|------------------------|--|--------------------|------------------------|------------------------|--|--------------------|------------------------|------------------------|
| | OL 281 (mm) | OL 283 (mm) | $\Delta x \pm$ (mm) | $\Delta y \pm$ (mm) | LHT 281 (mm) | LHT 283 (mm) | $\Delta x \pm$ (mm) | $\Delta y \pm$ (mm) | LHT 281 (mm) | LHT 283 (mm) | $\Delta x \pm$ (mm) | $\Delta y \pm$ (mm) | LHT 281 (mm) | LHT 283 (mm) | $\Delta x \pm$ (mm) | $\Delta y \pm$ (mm) |
| 20 | 300 | | 28 | 150 | 800 | | 28 | 570 | | | | | | | | |
| 25 | 300 | | 30 | 150 | 800 | | 30 | 520 | | | | | | | | |
| 32 | 300 | | 32 | 135 | 800 | | 32 | 470 | | | | | | | | |
| 40 | 300 | 310 | 32 | 125 | 800 | 810 | 32 | 420 | | | | | | | | |
| 50 | 310 | 320 | 36 | 115 | 810 | 820 | 36 | 370 | 1310 | 1320 | 36 | 700 | | | | |
| 65 | 320 | 330 | 40 | 90 | 820 | 830 | 40 | 320 | 1320 | 1330 | 40 | 650 | | | | |
| 80 | 360 | 370 | 40 | 80 | 860 | 870 | 40 | 270 | 1360 | 1370 | 40 | 600 | | | | |
| 100 | 400 | 410 | 46 | 75 | 900 | 910 | 46 | 220 | 1400 | 1410 | 46 | 550 | | | | |
| 125 | 540 | 550 | 50 | 60 | 1040 | 1050 | 50 | 170 | 1540 | 1550 | 50 | 280 | 2040 | 2050 | 50 | 400 |
| 150 | 540 | 550 | 50 | 60 | 1040 | 1050 | 50 | 165 | 1540 | 1550 | 50 | 265 | 2040 | 2050 | 50 | 375 |
| 175 | 560 | 570 | 56 | 60 | 1060 | 1070 | 56 | 160 | 1560 | 1570 | 56 | 260 | 2060 | 2070 | 56 | 350 |
| 200 | 640 | 650 | 64 | 60 | 1140 | 1150 | 64 | 150 | 1640 | 1650 | 64 | 250 | 2140 | 2150 | 64 | 325 |
| 250 | 640 | 650 | 64 | 60 | 1140 | 1150 | 64 | 140 | 1640 | 1650 | 64 | 225 | 2140 | 2150 | 64 | 300 |
| 300 | 640 | 650 | 64 | 55 | 1140 | 1150 | 64 | 125 | 1640 | 1650 | 64 | 200 | 2140 | 2150 | 64 | 270 |

INOX 321 Bellow
Steel ends and flanges

NP 1 bar
Max. temperature 650°C

axial (Δx) or lateral (Δy) stroke

A presence in the majority of industrial sectors

Subject to technical modification

For any special request (ND, material or connection mode), please call us.

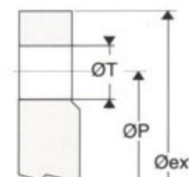
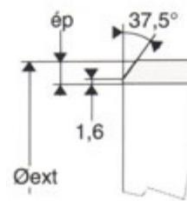
Tuyaux Flexibles Rudolph
www.rudolph.fr

INOX 321 Bellow
Steel ends and flanges

NP 1 bar
Max. temperature 650°C

axial (Δx) or lateral (Δy) stroke

NH = number of holes



Stainless steel

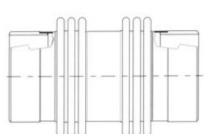
Geared bellow

End

Flange

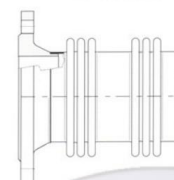
| ND | Diameter Ø | | OL | | | Δx | Δy | Ø out. th. | | Ø out. ØP NH ØT | | | |
|------|------------|------|------|------|------|------------|------------|------------|------|-----------------|------|------|------|
| | inn. | out. | 291 | 292 | 293 | | | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) |
| 20 | 21 | 31 | 180 | | | 14 | 40 | 26,7 | 2,9 | 105 | 75 | 4 | 14 |
| 25 | 26 | 38 | 180 | | | 15 | 40 | 33,7 | 3,2 | 115 | 85 | 4 | 14 |
| 32 | 32 | 50 | 180 | | | 16 | 40 | 42,4 | 3,2 | 140 | 100 | 4 | 18 |
| 40 | 42 | 60 | 180 | 190 | 185 | 16 | 40 | 48,3 | 3,3 | 150 | 110 | 4 | 18 |
| 50 | 47 | 66 | 205 | 215 | 210 | 18 | 40 | 60,3 | 3,0 | 165 | 125 | 4 | 18 |
| 65 | 61 | 85 | 230 | 240 | 235 | 20 | 35 | 76,1 | 3,0 | 185 | 145 | 4 | 18 |
| 80 | 76 | 102 | 250 | 260 | 255 | 20 | 35 | 88,9 | 3,2 | 200 | 160 | 8 | 18 |
| 100 | 95 | 121 | 300 | 310 | 305 | 23 | 35 | 108,0 | 3,6 | 220 | 180 | 8 | 18 |
| 125 | 140 | 184 | 490 | 500 | 495 | 28 | 35 | 139,7 | 4,5 | 250 | 210 | 8 | 18 |
| 150 | 168 | 220 | 490 | 500 | 495 | 28 | 30 | 168,3 | 4,5 | 285 | 240 | 8 | 22 |
| 175 | 194 | 254 | 490 | 500 | 495 | 28 | 30 | 193,7 | 5,4 | 315 | 270 | 8 | 22 |
| 200 | 219 | 587 | 550 | 560 | 555 | 28 | 28 | 219,1 | 5,9 | 340 | 295 | 8 | 22 |
| 250 | 269 | 337 | 550 | 560 | 555 | 28 | 22 | 273,0 | 6,3 | 395 | 350 | 12 | 22 |
| 300 | 319 | 387 | 550 | 560 | 555 | 28 | 18 | 323,9 | 7,1 | 445 | 400 | 12 | 22 |

SFT 291



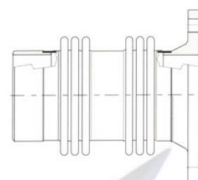
embouts à souder

SFT 292



brides fixes PN 10

SFT 293



embout à souder et bride fixe PN 10

OL = Overall Length

A presence in the majority of industrial sectors

Subject to technical modification

For any special request (ND, material or connection mode), please call us.

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NOTES

A presence in the majority of industrial sectors

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