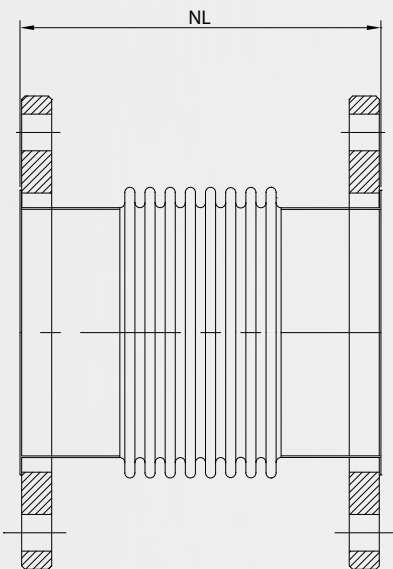


STAINLESS STEEL EXPANSION JOINT, TYPE US1F >>



APPLICATIONS

US types are used in flue gas (exhaust) systems. Exhaust systems in e.g. ships are normally characterized by higher demands of temperatures, vibrations and lower pressures. Designed for general applications with low pressure and high temperatures, small vibrations and relatively large axial and lateral movements.



TECHNICAL DESCRIPTION

Bellow : AISI 321
Van Stone ends (collar) : AISI 321
Flanges : Carbon steel

FLANGES

Swivelling, PN 6, carbon steel.,
Other flanges (PN 10/16) on request.

DATA TABLE

| DN | Type | NL Neutral Length | Axial Compression | Axial Extension | Lateral Deflection | Max. Pressure | Max. Pressure |
|----------|---------------|----------------------|----------------------|--------------------|-----------------------|------------------|------------------|
| mm (in.) | | mm | mm | mm | mm | bar/20°C | bar/550°C |
| 80(3) | US1F80.255/F | 255 | -49 | +49 | 26 | 2,5 | 0,5 |
| 100(4) | US1F100.255/F | 255 | -53 | +53 | 21 | 2,5 | 0,5 |
| 125(5) | US1F125.255/F | 255 | -56 | +56 | 19 | 2,5 | 0,5 |
| 150(6) | US1F150.255/F | 255 | -46 | +46 | 12 | 2,5 | 0,5 |
| 200(8) | US1F200.255/I | 255 | -54 | +54 | 11 | 2,5 | 0,5 |
| 250(10) | US1F250.255/I | 255 | -60 | +60 | 10 | 2,5 | 0,5 |
| 300(12) | US1F300.310/I | 310 | -69 | +69 | 12 | 2,5 | 0,5 |
| 350(14) | US1F350.310/I | 310 | -75 | +75 | 13 | 2,5 | 0,5 |
| 400(16) | US1F400.310/I | 310 | -78 | +78 | 12 | 2,5 | 0,5 |
| 450(18) | US1F450.310/I | 310 | -77 | +77 | 10 | 2,5 | 0,5 |
| 500(20) | US1F500.310/I | 310 | -75 | +75 | 9 | 2,5 | 0,5 |

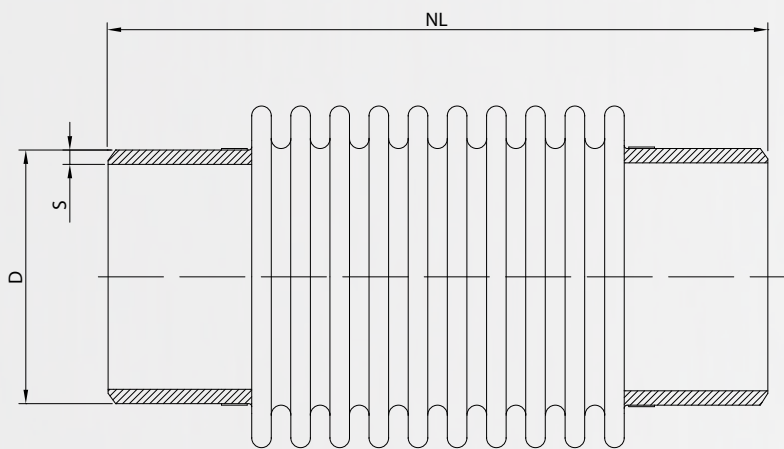
*For combined movements, consult AmniTec BV.

STAINLESS STEEL EXPANSION JOINT, TYPE US1S >>



APPLICATIONS

US types are used in flue gas (exhaust) systems. Exhaust systems in e.g. ships are normally characterized by higher demands of temperatures, vibrations and lower pressures. Designed for general applications with low pressure and high temperatures, small vibrations and relatively large axial and lateral movements.



TECHNICAL DESCRIPTION

Bellow : AISI 321
Welding ends : Carbon Steel

Welding end in stainless steel on request.

DATA TABLE

| DN | Type | NL Neutral Length | Axial Compression | Axial Extension | Lateral Deflection | D | S | Max. Pressure | Max. Pressure |
|-----------|---------------|----------------------|----------------------|--------------------|-----------------------|-------|-----|------------------|------------------|
| mm (in.) | | mm | mm | mm | mm | mm | mm | bar/20°C | bar/550°C |
| 32(1.1/4) | US1S032.205/D | 205 | -31 | +31 | 26 | 42,4 | 2,6 | 2,5 | 0,5 |
| 40(1.1/2) | US1S040.205/D | 205 | -31 | +31 | 26 | 48,3 | 2,9 | 2,5 | 0,5 |
| 50(2) | US1S050.245/D | 245 | -38 | +38 | 38 | 60,3 | 2,9 | 2,5 | 0,5 |
| 65(2.1/2) | US1S065.245/D | 245 | -45 | +45 | 27 | 76,1 | 2,9 | 2,5 | 0,5 |
| 80(3) | US1S080.245/D | 245 | -49 | +49 | 26 | 88,9 | 3,2 | 2,5 | 0,5 |
| 90(3.1/2) | US1S090.245/D | 245 | -49 | +49 | 26 | 101,6 | 3,6 | 2,5 | 0,5 |
| 100(4) | US1S100.245/D | 245 | -53 | +53 | 21 | 114,3 | 3,6 | 2,5 | 0,5 |
| 125(5) | US1S125.245/D | 245 | -56 | +56 | 19 | 139,7 | 3,6 | 2,5 | 0,5 |
| 150(6) | US1S150.245/D | 245 | -46 | +46 | 12 | 168,3 | 4 | 2,5 | 0,5 |
| 175(7) | US1S175.245/D | 245 | -49 | +49 | 11 | 193,7 | 4,5 | 2,5 | 0,5 |
| 200(8) | US1S200.245/D | 245 | -54 | +54 | 11 | 219,1 | 4,5 | 2,5 | 0,5 |
| 250(10) | US1S250.245/D | 245 | -51 | +51 | 8 | 273 | 5 | 2,5 | 0,5 |
| 300(12) | US1S300.295/D | 295 | -69 | +69 | 12 | 323,9 | 5,6 | 2,5 | 0,5 |
| 350(14) | US1S350.295/D | 295 | -75 | +75 | 13 | 355,6 | 5,6 | 2,5 | 0,5 |
| 400(16) | US1S400.295/D | 295 | -78 | +78 | 12 | 406,4 | 6,3 | 2,5 | 0,5 |
| 450(18) | US1S450.295/D | 295 | -77 | +77 | 10 | 457 | 6,3 | 2,5 | 0,5 |
| 500(20) | US1S500.295/D | 295 | -75 | +75 | 9 | 508 | 6 | 2,5 | 0,5 |

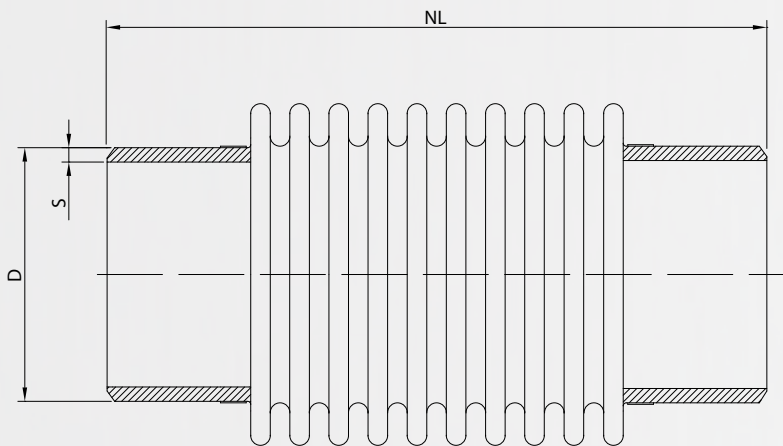
*For combined movements, consult AmniTec BV.

STAINLESS STEEL EXPANSION JOINT, TYPE US1S-185



APPLICATIONS

US types (length 185 mm) are used in flue gas (exhaust) systems. Exhaust systems in e.g. ships are normally characterized by higher demands of temperatures, vibrations and lower pressures. Designed for general applications with low pressure and high temperatures, small vibrations and axial movements.



TECHNICAL DESCRIPTION

Bellow : AISI 321
Welding ends : Carbon Steel/AISI 304

DATA TABLE

| DN | Type | NL Neutral Length | Axial Compression | Axial Extension | Lateral Deflection | D | S | Material weld ends | Max. Pressure | Max. Pressure |
|----------|--------------|----------------------|----------------------|--------------------|-----------------------|-------|-----|-----------------------|------------------|------------------|
| mm (in.) | | mm | mm | mm | mm | mm | mm | | bar/20°C | bar/550°C |
| 300(12) | US1S300.0136 | 185 | -30 | +30 | 2 | 323,9 | 5,6 | AISI 304 | 2,5 | 0,5 |
| 300(12) | US1S300.0160 | 185 | -30 | +30 | 2 | 323,9 | 5,6 | Steel 37.2 | 2,5 | 0,5 |
| 350(14) | US1S350.0140 | 185 | -30 | +30 | 2 | 355,6 | 5,6 | AISI 304 | 2,5 | 0,5 |
| 350(14) | US1S350.0138 | 185 | -30 | +30 | 2 | 355,6 | 5,6 | Steel 37.2 | 2,5 | 0,5 |
| 400(16) | US1S400.0162 | 185 | -30 | +30 | 2 | 406,4 | 6,3 | AISI 304 | 2,5 | 0,5 |
| 400(16) | US1S400.0177 | 185 | -30 | +30 | 2 | 406,4 | 6,3 | Steel 37.2 | 2,5 | 0,5 |
| 450(18) | US1S450.0091 | 185 | -30 | +30 | 2 | 457,2 | 6,3 | AISI 304 | 2,5 | 0,5 |
| 450(18) | US1S450.0090 | 185 | -30 | +30 | 2 | 457,2 | 6,3 | Steel 37.2 | 2,5 | 0,5 |
| 500(20) | US1S500.0129 | 185 | -30 | +30 | 1 | 508 | 8 | AISI 304 | 2,5 | 0,5 |
| 500(20) | US1S500.0128 | 185 | -30 | +30 | 1 | 508 | 8 | Steel 37.2 | 2,5 | 0,5 |
| 600(24) | US1S600.0177 | 185 | -30 | +30 | 1 | 610 | 8 | AISI 304 | 2,5 | 0,5 |
| 600(24) | US1S600.0156 | 185 | -30 | +30 | 1 | 610 | 8 | Steel 37.2 | 2,5 | 0,5 |

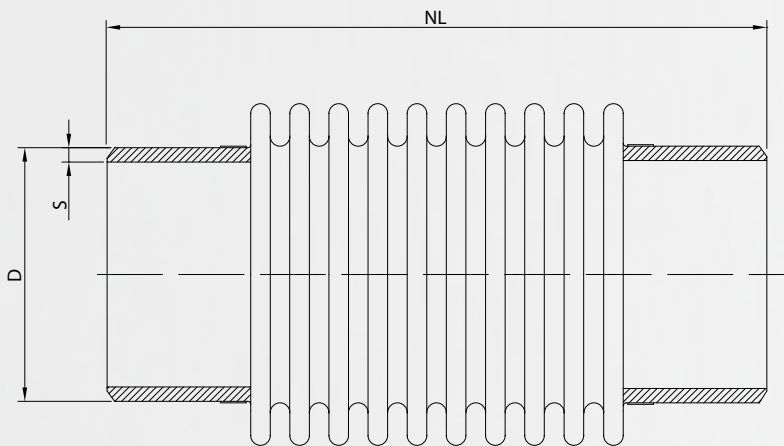
*For combined movements, consult AmniTec BV.

STAINLESS STEEL EXPANSION JOINT, TYPE US1S-272



APPLICATIONS

US types (length 272 mm) are used in flue gas (exhaust) systems. Exhaust systems in e.g. ships are normally characterized by higher demands of temperatures, vibrations and lower pressures. Designed for general applications with low pressure and high temperatures, small vibrations and axial movements.



TECHNICAL DESCRIPTION

Bellow : AISI 321
Welding ends : Carbon Steel/AISI 304

DATA TABLE

| DN | Type | NL Neutral Length | Axial Compression | Axial Extension | Lateral Deflection | D | S | Material weld ends | Max. Pressure | Max. Pressure |
|----------|-----------------|----------------------|----------------------|--------------------|-----------------------|------|----|-----------------------|------------------|------------------|
| mm (in.) | | mm | mm | mm | mm | mm | mm | | bar/20°C | bar/550°C |
| 700(28) | US1S700.1.0510 | 272 | -30 | +30 | 1 | 711 | 6 | AISI 304 | 2,5 | 0,5 |
| 700(28) | US1S700.1.0510S | 272 | -30 | +30 | 1 | 711 | 6 | Steel 37.2 | 2,5 | 0,5 |
| 800(32) | US1S800.1.0189 | 272 | -30 | +30 | 1 | 813 | 8 | AISI 304 | 2,5 | 0,5 |
| 800(32) | US1S800.1.STL | 272 | -30 | +30 | 1 | 813 | 8 | Steel 37.2 | 2,5 | 0,5 |
| 900(36) | US1S900.1.0106 | 272 | -30 | +30 | 1 | 914 | 8 | AISI 304 | 2,5 | 0,5 |
| 900(36) | US1S900.1.STL | 272 | -30 | +30 | 1 | 914 | 8 | Steel 37.2 | 2,5 | 0,5 |
| 1000(40) | US1S1000.1.272 | 272 | -30 | +30 | 1 | 1016 | 8 | AISI 304 | 2,5 | 0,5 |
| 1000(40) | US1S1000.1.272S | 272 | -30 | +30 | 1 | 1016 | 8 | Steel 37.2 | 2,5 | 0,5 |

*For combined movements, consult AmniTec BV.