

COMPENSADORES PRESURIZADOS EXTERNOS EXTERNAL PRESSURIZED EXPANSION JOINTS

HELS®
HOSE-EXPANSION JOINT-LEVEL CONTROL-STEAM TRAP



JUNTAS DE EXPANSIÓN PRESURIZADAS EXTERNAS

Las juntas de expansión presurizadas externas se están utilizando como alternativa para las juntas de expansión de tipo axial, cuya capacidad de movimiento es limitada.

Estas juntas, se prefieren para usarlas en tuberías largas y rectas y para reducir el número de juntas de expansión necesarias.

Son capaces de absorber 60-90-120-150mm de movimiento total, fáciles de instalar y de usar. También es fácil de cubrir con cualquier material aislante y están diseñadas para absorber los movimientos laterales y verticales.

El medio de flujo puede pasar a través de los fuelles y fuera de ellos, lo que aumenta la capacidad de absorber altas presiones.

Las juntas de expansión presurizadas externas pueden utilizarse para todo tipo de medios de flujo y sistemas de tuberías.

Conexiones:

Brida fijas, brida locas, para soldar o roscado.

Material:

Fuelle en acero inoxidable, conexiones en acero inoxidable o acero al carbono. Se puede fabricar en diversos materiales dependiendo de las necesidades.

Diámetro Nominal:

DN25(1")- DN 1200(48")

Temperatura de trabajo:

-80/+427°C (opcional; -80/+1100°C, dependiendo de la estructura del material)

Presión de trabajo:

2 - 5 - 4 - 6 - 10 - 16 - 25 - 40 - 64 bar o más. Depende del tamaño de la tubería.

EXTERNAL PRESSURIZED EXPANSION JOINTS

External pressurized expansion joints are being used as an alternative for axial type of expansion joints, which movement capability is limited. External pressurized expansion joints are preferred to use for long and straight pipelines in order to reduce the number of expansion joints requirement. External pressurized expansion joints are capable to absorb 60-90-120-150mm total movement, easy to install and user friendly. It is also easy to cover with any insulation material and it is designed to absorb both lateral and vertical movements. The flow media can pass through both bellow and outside of bellow that this feature increases the capability to absorb high pressures.

External pressurized expansion joints can be used for all type of flow media and pipeline systems.

Connection:

Fixed flanged, floating flanged, butt-weld or screwed.

Material:

Bellow in stainless steel, connections in stainless steel or carbon steel. It is also possible to produce in different materials if required.

Nominal Sizes:

DN25(1") - DN 1200(48")

Working Temperature:

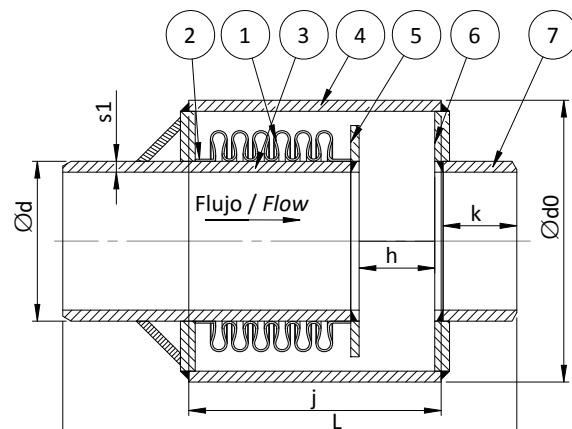
-80/+427°C (optional; -80/+1100°C depending on the structure of the material)

Working Pressures:

2 - 5 - 4 - 6 - 10 - 16 - 25 - 40 - 64 bar or more. It depends on the pipe size.



| | | | |
|-----------|---------------|-----------------------------------|-----------------|
| 7 | 1 | Cuello soldadura / Welding neck | St. 37.2 |
| 6 | 2 | Brida externa / External flange | St. 37.2 |
| 5 | 1 | Brida centrado / Centering flange | St. 37.2 |
| 4 | 1 | Tubería externa / External pipe | St. 37.2 |
| 3 | 1 | Tubería interna / Inner pipe | St. 37.2 |
| 2 | 2 | Fuelle / Bellows | AISI 304 |
| 1 | 1 | Pletina / Steel Band | AISI 304 |
| Nº | Nº Pcs | PARTES/PART NAME | MATERIAL |



| | | | | HLS - 30 DBB | | | | | HLS-60 DBB | | | | | HLS-90 DBB | | | | |
|---------|-------|-------|----|--|-----|-----|-----|----|--|-----|-----|-----|----|--|-----|-----|-----|--|
| | | | | Presión / Pressure: PN16 Expansión longitudinal: -20 mm + 10 mm | | | | | Presión / Pressure: PN16 Expansión longitudinal: -40 mm + 20 mm | | | | | Presión / Pressure: PN16 Expansión longitudinal: -70 mm + 20 mm | | | | |
| DN/Size | Ød | Ød0 | h | k | j | s1 | L | h | k | j | s1 | L | h | k | j | s1 | L | |
| DN 25 | 38 | 76,1 | 30 | 80 | 180 | 2,6 | 340 | 50 | 80 | 300 | 2,6 | 470 | 80 | 80 | 300 | 2,6 | 500 | |
| DN 32 | 42,4 | 76,1 | 30 | 80 | 180 | 2,6 | 340 | 50 | 80 | 300 | 2,6 | 470 | 80 | 80 | 300 | 2,6 | 500 | |
| DN 40 | 48,3 | 76,1 | 30 | 80 | 200 | 2,6 | 360 | 50 | 80 | 310 | 2,6 | 480 | 80 | 80 | 310 | 2,6 | 510 | |
| DN 50 | 60,3 | 101 | 30 | 80 | 190 | 2,9 | 350 | 50 | 80 | 290 | 2,9 | 460 | 80 | 80 | 290 | 2,9 | 490 | |
| DN 65 | 76,1 | 114,3 | 30 | 80 | 190 | 2,9 | 350 | 50 | 80 | 280 | 2,9 | 450 | 80 | 80 | 280 | 2,9 | 480 | |
| DN 80 | 88,3 | 139,7 | 30 | 80 | 190 | 3,2 | 350 | 50 | 80 | 280 | 3,2 | 450 | 80 | 80 | 280 | 3,2 | 480 | |
| DN 100 | 114,3 | 168,3 | 30 | 80 | 200 | 3,6 | 360 | 50 | 80 | 290 | 3,6 | 460 | 80 | 80 | 290 | 3,6 | 490 | |
| DN 125 | 139,7 | 219,1 | 30 | 80 | 180 | 4 | 360 | 50 | 80 | 290 | 4 | 470 | 80 | 80 | 290 | 4 | 500 | |
| DN 150 | 168,3 | 245 | 30 | 80 | 210 | 4,5 | 380 | 50 | 80 | 310 | 4,5 | 490 | 80 | 80 | 310 | 4,5 | 520 | |
| DN 200 | 219,1 | 323,9 | 30 | 80 | 200 | 6,3 | 400 | 50 | 80 | 300 | 6,3 | 510 | 80 | 100 | 300 | 6,3 | 540 | |
| DN 250 | 273 | 355,6 | 30 | 80 | 210 | 6,3 | 420 | 50 | 80 | 300 | 6,3 | 520 | 80 | 100 | 300 | 6,3 | 550 | |
| DN 300 | 323,9 | 406,4 | 30 | 80 | 230 | 7,1 | 440 | 50 | 80 | 330 | 7,1 | 550 | 80 | 100 | 330 | 7,1 | 580 | |

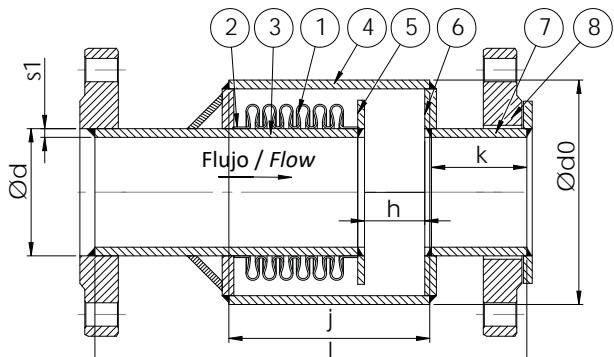
COMPENSADORES PRESURIZADOS EXTERNOS

EXTERNAL PRESSURIZED EXPANSION JOINTS

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| 8 | 2 | Bridas / Flanges | St. 37.2 |
|----|--------|-----------------------------------|----------|
| 7 | 1 | Cuello soldadura / Welding neck | St. 37.2 |
| 6 | 2 | Brida externa / External flange | St. 37.2 |
| 5 | 1 | Brida centrado / Centering flange | St. 37.2 |
| 4 | 1 | Tubería externa / External pipe | St. 37.2 |
| 3 | 1 | Tubería interna / Inner pipe | St. 37.2 |
| 2 | 2 | Fuelle / Bellows | AISI 304 |
| 1 | 1 | Pletina / Steel Band | AISI 304 |
| Nº | Nº Pcs | PARTES/PART NAME | MATERIAL |



| | | | HLS - 30 DBF | | | | | HLS-60 DBF | | | | | HLS-90 DBF | | | | |
|--------|-------|-------|--|----|-----|-----|-----|--|----|-----|-----|-----|--|-----|-----|-----|-----|
| | | | Presión / Pressure: PN16 Expansión longitudinal: -20 mm + 10 mm | | | | | Presión / Pressure: PN16 Expansión longitudinal: -40 mm + 20 mm | | | | | Presión / Pressure: PN16 Expansión longitudinal: -70 mm + 20 mm | | | | |
| Size | Ød | Ød0 | h | k | j | s1 | L | h | k | j | s1 | L | h | k | j | s1 | L |
| DN 25 | 38 | 76,1 | 30 | 80 | 180 | 2,6 | 360 | 50 | 80 | 300 | 2,6 | 490 | 80 | 80 | 300 | 2,6 | 520 |
| DN 32 | 42,4 | 76,1 | 30 | 80 | 180 | 2,6 | 360 | 50 | 80 | 300 | 2,6 | 490 | 80 | 80 | 300 | 2,6 | 520 |
| DN 40 | 48,3 | 76,1 | 30 | 80 | 200 | 2,6 | 380 | 50 | 80 | 310 | 2,6 | 500 | 80 | 80 | 310 | 2,6 | 530 |
| DN 50 | 60,3 | 101 | 30 | 80 | 190 | 2,9 | 370 | 50 | 80 | 290 | 2,9 | 480 | 80 | 80 | 290 | 2,9 | 510 |
| DN 65 | 76,1 | 114,3 | 30 | 80 | 190 | 2,9 | 370 | 50 | 80 | 280 | 2,9 | 470 | 80 | 80 | 280 | 2,9 | 500 |
| DN 80 | 88,3 | 139,7 | 30 | 80 | 190 | 3,2 | 370 | 50 | 80 | 280 | 3,2 | 470 | 80 | 80 | 280 | 3,2 | 500 |
| DN 100 | 114,3 | 168,3 | 30 | 80 | 200 | 3,6 | 380 | 50 | 80 | 290 | 3,6 | 480 | 80 | 80 | 290 | 3,6 | 510 |
| DN 125 | 139,7 | 219,1 | 30 | 80 | 180 | 4 | 380 | 50 | 80 | 290 | 4 | 490 | 80 | 80 | 290 | 4 | 520 |
| DN 150 | 168,3 | 245 | 30 | 80 | 210 | 4,5 | 400 | 50 | 80 | 310 | 4,5 | 510 | 80 | 80 | 310 | 4,5 | 540 |
| DN 200 | 219,1 | 323,9 | 30 | 80 | 200 | 6,3 | 420 | 50 | 80 | 300 | 6,3 | 530 | 80 | 100 | 300 | 6,3 | 560 |
| DN 250 | 273 | 355,6 | 30 | 80 | 210 | 6,3 | 440 | 50 | 80 | 300 | 6,3 | 540 | 80 | 100 | 300 | 6,3 | 570 |
| DN 300 | 323,9 | 406,4 | 30 | 80 | 230 | 7,1 | 460 | 50 | 80 | 330 | 7,1 | 570 | 80 | 100 | 330 | 7,1 | 600 |