Single Sphere One Ball Rubber Expansion Joints With Full Face Rubber FF

Basic Information

Place of Origin: CHINABrand Name: DEYE

Certification: ISO9001:2015 PED

Model Number: DY-RJ-U06Minimum Order Quantity: 10PCS

• Price: USD2-USD25 each

• Packaging Details: carton box+ ply wooden cases or carton+

Pallets

• Delivery Time: 20 days for usual order, 7 days for stocked

items

• Payment Terms: T/T, L/C, D/P

• Supply Ability: 1000pcs one month



Product Specification

• Types: Single Sphere Type, Twin Sphere Type,

Double Sphere Type, Double Ball Type,

Union Fittings Type

• Rubber Material: EPDM, NBR, BUNA, Neoprene, VITON,

PTFE, Hypalon

• Flange Type: HDG, Electric. Galvanized, Zinc Coated,

Stainless Steel

Working Pressure: PN10 PN16 PN25 CL150LBS 150#

• Size: 2" (DN50MM)-24"(DN600MM)

• Highlight: One Ball Expansion Joints,

 ${\bf Single\ Sphere\ Expansion\ Joints},$

PN10 single sphere rubber expansion joint

Product Description

SINGLE SPHERE ONE BALL RUBBER EXPANSION JOINT WITH FULL FACE RUBBER FF

An Expansion Joint is a component that adds flexibility to the pipe system. When to use an Expansion Joint, how many and what type to use is determined by the piping layout and the operating parameters. Also the connected equipment is determining when to use them. Plant engineers, engineers and pipe designers routinely incorporate Expansion Joints into their pipe systems, as they, further to adding flexibility into the design, reduce costs through removing the complexity of fix points, guides and reduces the overall space requirements for the pipe system.

Rubber Expansion Joints are preffered over Metallic Expansion Joints in the event of low temepratures, non-aggressive medias and when need for noise reductions as well as vibrations occurring in the piping system.

Material of main Spare Parts

| Cover | EPDM, NBR, Hypalon, NR, PTFE |
|--------------------|--|
| Reinforcing Fabric | Nylon |
| Tube | EPDM, NBR, Hypalon, NR, PTFE |
| Retain Rings | Steel |
| Flange | Carbon Steel, Stainless Steel, Duplex SS |

Supplying Scope

| cappi)g cccpc | |
|----------------|---|
| Size Range | DN50-DN800 |
| | PN10 PN16 PN25 for rubber |
| Pressure Range | PN10, PN16, PN25, PN40, PN64, PN100 for metal |
| | bellow type |

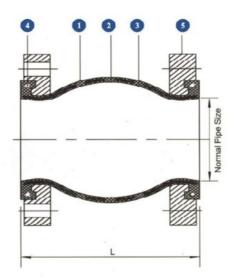
Design Pressure

| Working Pressnre(Bar) | 10 | 16 | 25 |
|-----------------------|-----|-----|-----|
| Burst pressure(Bar) | 30 | 48 | 55 |
| Vacuam(mmHg) | 400 | 650 | 750 |

Technology/ Technical Data Sheets

Spherical Single Sphere Rubber Expansion Joint





Dimension for Rubber joint PN16

| Nominal diameter DN | | Lenç mm) | | | ⊩lana≏ | Dia. Of bolt Circle | Axial displacement (mm) | | Lateral displace ment | Angle of deflection | |
|------------------------|------|-------------|-----|----|--------|---------------------------|-------------------------------|-----------------|-----------------------------|---------------------|--|
| (mm) | (in) | | | n | Dia. | Oncic | Streto | Compressi on | 1 | | |
| 32 | 11/4 | 95 | | 4 | 17.5 | 100 | 6 | 9 | 9 | 15° | |
| 40 | 11/2 | 95 | | 4 | 17.5 | 110 | 6 | 10 | 9 | 15° | |
| 50 | 2 | 105 | | 4 | 17.5 | 125 | 7 | 10 | 10 | 15° | |
| 65 | 21/2 | 115 | | 4 | 17.5 | 145 | 7 | 13 | 11 | 15° | |
| 80 | 3 | 135 | 130 | 8 | 17.5 | 160 | 8 | 15 | 12 | 15° | |
| 100 | 4 | 150 | 135 | 8 | 17.5 | 180 | 10 | 19 | 13 | 15° | |
| 125 | 5 | 165 | 160 | 8 | 17.5 | 210 | 12 | 19 | 14 | 15° | |
| 150 | 6 | 180 | 185 | 8 | 22 | 240 | 12 | 20 | 22 | 15° | |
| 200 | 8 | 190 | 200 | 8 | 22 | 295 | 16 | 25 | 22 | 15° | |
| 250 | 10 | 230 | 240 | 12 | 22 | 350 | 16 | 25 | 22 | 15° | |

| 300 | 12 | 245 26 | 60 12 | 22 | 400 | 16 | 25 | 22 | 15° |
|------|----|--------|-------|----|------|----|----|----|-----------------|
| 350 | 14 | 265 | 16 | 26 | 460 | 16 | 25 | 22 | 15° |
| 400 | 16 | 265 | 16 | 26 | 515 | 16 | 25 | 22 | 15° |
| 450 | 18 | 265 | 20 | 26 | 565 | 16 | 25 | 22 | 15° |
| 500 | 20 | 265 | 20 | 30 | 620 | 16 | 25 | 22 | 15° |
| 600 | 24 | 265 | 20 | 26 | 725 | 16 | 25 | 22 | 15° |
| 700 | 28 | 260 | 24 | 30 | 810 | 16 | 25 | 22 | 10° |
| 800 | 32 | 260 | 24 | 30 | 920 | 16 | 25 | 22 | 10 ^u |
| 900 | 36 | 260 | 24 | 30 | 1020 | 16 | 25 | 22 | 10 ^w |
| 1000 | 40 | 260 | 28 | 30 | 1120 | 16 | 25 | 22 | 10° |

Dimension of Rubber joint 150LBS

| Dillie | HSIOH | oi nui | ober jo | int 15 | ULDS | | | | | , | , |
|---------------------------|-------|-----------------|---------|--------|---------------|----------------------------|-----------------------------------|--------------------|--------------|-----------------------------|-------------------------------|
| Nominal diameter DN | | Length L(mm) | | b | NO.of bolt | Dia. Of Flange holes | Dia. Of Bolt Circle. PCD | Axial displacement | | Lateral displace ment | Angle of deflec tion |
| (mm)(in) | | L1 L2 | | | | | | stretch | Compress ion | | |
| 25 | 1 | 152 | 130 | 14 | 4 | 16 | 79.4 | +9.5 | 13 | ±13 | ±15° |
| 32 | 1 1/4 | 152 | 130 | 16 | 4 | 16 | 89 | +9.5 | 13 | ±13 | ±15° |
| 40 | 1-1/2 | 152 | 130 | 16 | 4 | 16 | 98.5 | +9.5 | -13 | ±13 | ±15" |
| 50 | 2 | 152 | 130 | 16 | 4 | 19 | 121 | +9.5 | 13 | ±13 | ±15" |
| 65 | 2-1/2 | 152 | 130 | 18 | 4 | 19 | 139.5 | +9.5 | -13 | ±13 | ±15 |
| 80 | 3 | 152 | 130 | 18 | 4 | 19 | 153 | +9.5 | -13 | ±13 | ±15° |
| 100 | 4 | 152 | 130 | 18 | 8 | 19 | 190 | +9.5 | 16 | ±13 | ±15° |
| 125 | 5 | 152 | 130 | 20 | 8 | 22.5 | 216 | +9.5 | -16 | ±13 | ±15° |
| 150 | 6 | 152 | 130 | 22 | 8 | 22.5 | 242 | +9.5 | -16 | ±13 | ±15° |
| 200 | 8 | 152 | 130 | 22 | 8 | 22.5 | 298 | +9.5 | -16 | ±13 | ±15° |
| 250 | 10 | 203 | 130 | 24 | 12 | 25.5 | 362 | +13 | 16 | ±19 | ±15° |
| 300 | 12 | 203 | 130 | 24 | 12 | 25.5 | 432 | +13 | 19 | ±19 | ±15° |
| 350 | 14 | 203 | 200 | 26 | 12 | 28.5 | 476 | +13 | -19 | ±19 | ±15° |
| 400 | 16 | 203 | 200 | 28 | 16 | 28.5 | 540 | +13 | -19 | ±19 | ±15° |
| 450 | 18 | 203 | 200 | 30 | 16 | 32 | 578 | +13 | -19 | ±19 | ±15° |
| 500 | 20 | 203 | 200 | 30 | 20 | 32 | 634 | +13 | -19 | ±19 | ±15° |
| 600 | 24 | 254 | 260 | 32 | 20 | 35 | 749.5 | +13 | -19 | ±19 | ±15° |
| 800 | 32 | 254 | 260 | 36 | 24 | 30 | 920 | +13 | -19 | ±19 | ±15° |

FEATURES

Absorb Axial movements (extension and compression)

Axial movement is the change in dimensional length of the bellows from its free length in a direction parallel to its longitudinal axis.

Absorb Lateral movements

Lateral movement is the relative displacement of one end of the bellows to the other end in a direction perpendicular to its longitudinal axis.

Absorb Angular and Torsional Movements

Angular movement is the rotational displacement of the longitudinal axis of the bellows toward a point of rotation. Torsion refers to twisting one

end of the bellows with respect to the other end, about the bellows centerline.

Reduce Vibration

Rubber expansion joints isolate or reduce vibration caused by equipment. The transmission of vibration is reduced and they protect equipment from these adverse effects

Dampen Sound Transmission

Rubber expansion joints tend to dampen transmission of sound because of the steel rubber interface of joints and mating flanges.

Manual and Install Notes of the Rubber Joint

- 1, The installation of expansion joints shall be in accordance with the expansion of piping construction drawings and installation instructions
- 2, Install expansion joint of the pipeline must be approx. to increase fixed by the orientation and expansion joints can be made to play a role, so orientation and fixation of the settings must be in strict accordance with the design departments of the technical information. For orientation, the principle of setting a fixed support, please see "Bellows Expansion joints Installation Guide."
- 3, With a bellows expansion joint is formed with a thin stainless steel plate, so lost in moving, hoisting and welding should be careful not to hit the period, scratch, arc,weld spatter and other reasons to bellows damage
- 4, Should be removed before installation and piping bellows foreign body to ensure normal movement bellows
- 5, On a flow of media requests for expansion joint should be required to install the flow arrows
- 6, In order to make bellows in good working condition,can not install expansion joints in the deformation, including axial, lateral, turn transfer pipe installation error

7, Expansion joints installed, running in the system before moving to remove all painted yellow lose a fixed screw

8, Fabric fiber expansion joint is not subject to the tensile displacement due to the installation to the proper conduct of the pre-compression, the pipeline can not deflection, displacement and axial extension, should be noted that flexible ring of protection against scratches, installed as soon as possible to dismantle support board, so that in normal working condition

Application:

Oil & gas, Desalination, Cooling systems, Pumps, Chemical plants, Heating, ventilating and air conditioning, Shipbuilding, Off-shore applications, Water treatment plants Sewage, Sanitary piping systems, Pulp and paper plants, Piping systems for chilled or hot water, Cooling systems power generation, Phosphate plants, Potable water, Food process

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