Rubber Joints



Why choosing the Toraflex® range of Flexible Joints?



Rubber Joints are excluded from the Pressure Equipment Directive PED 2014/68/EU, according to its article 1.2(O). WRAS approval for drinking water, series S10, S15, S20 & S30, standard up to DN400!



Full turned rubber design, self-sealing, no aditional gaskets are required. It prevents electrolytic corrosion



Rubber material identification and maximum service pressure and temperature.



Inner Reinforcement placed in between the outer and inner layers. Made of nylon plaited fabrics as standard.

S10 Single sphere Expansion Joints

DN25 - DN1200 / PN10-16 / Flanged to EN1092-2 type 21/B, PN10/16 / Marking: EN19 / Pressure Tests: EN12266-1



- Loose flanges for easy assembly.
- Precision injection molded of synthetic rubber and nylon.
- 4 different allowable movements: axial compression and expansion, lateral and angular deflection.
- Outer layer protects the bellows surface form eventual ozone attack.
- Spherical design for better strength and efficiency.

S20 Double Sphere Eexpansion Joints

DN25 - DN600 / PN10-16 / Flanged to EN1092-2 type 21/B, PN10/16 / Marking: EN19 / Pressure Tests: EN12266-1



- Loose flanges for easy assembly.
 Precision injection molded of synthetic rubber and nylon.
- 4 different allowable movements: axial compression and expansion, lateral and angular deflection.
- Outer layer protects the bellows surface form eventual ozone attack.
- Spherical design for better strength and efficiency.

- Double sphere design allows greater axial, lateral and angular movements subject to less effort and material wearing down during movements.

- With optional root ring

Rubber materials

EPDM, NBR/CR, NBR, PTFE/EPDM, HYPALON, VITON, NEOPRENE

Applications

Marine: Fresh water generators, machine room equipment, marine engines, on deck systems, water cooling lines, lubricating circuits...

H.V.A.C: Heating, ventilating and air conditioned, specially absorbing vibrations and noise caused by pulsating pressure stations, cooling towers, condensers, chillers, compressors, rooters...

Power: Hydroelectric plants, turbine lines, cooling towers, condensate lines and deaireators..

Water Works and Environmental Services: Water treatment plants, pollution filters, strength balance in sewage lines, centrifugal rooters, sludge pumping lines...

Process Industry: slurries, solvents and other chemical compounds...



End Bellows Reinforcement. Hardened steel wires to provide a greater consistence to the bellows outer neck.



Limit rods can control joint bellow over-extension and/or over-compression. Limit rods can be used for vacuum service in combination with vacuum rings.

S15 Single sphere Expansion joint, single length

DN25 - DN300 / PN10-16 / Flanged to EN1092-2 type 21/B, PN10/16 / Marking: EN19 / Pressure Tests: EN12266-1



- Loose flanges for easy assembly.
- Precision injection molded of synthetic rubber and nylon.
- 4 different allowable movements: axial compression and expansion, lateral and angular deflection.
- Outer layer protects the bellows surface form eventual ozone attack.
- Spherical design for better strength and efficiency.

S30 Threaded unions Expansion Joints

DN25 - DN1200 / PN10-16 / Threaded to EN10266-1, GAS-Rp-BSPP/ Marking: EN19 / Pressure Tests: EN12266-1

- Light and easy to install.
- Precision injection molded of synthetic
- rubber and nylon. - Outer layer protects the bellows surface
- form eventual ozone attack.
- Spherical design for better strength and efficiency.
- Double sphere design allows greater axial, lateral and angular movements subject to less effort and material wearing down during movements.
- With root ring as standard.



Root ring. for increasing strength.

Options within the Toraflex® range



Flanges ANSI class 150# standard, Stainless Steel material, Hot dip galvanized.



Spool Joints Special construction spools for civil construction and plant machinery



Metal Joints S25 and S50 stainless steel bellows, double corrugated layer, inner sleeve for gaseous and higher temperature media.

Typical applications and allowable movements:

- EPDM rubber bellows
- Fresh and sea water, hot water in HVAC installations,
- NBR rubber bellows:
- Kerosene, oils and fats.
- Hypalon® rubber bellows: Acids and alkalis, chloride
- Axial movement, angular movement and lateral movement only without limiting rods.

On site and Off site after market service and engineering support



installation and pipework layout upon request. Our support also includes general arrangement drawings, fluid compatibility tables, Operating and Maintenance Instructions and Certificates.



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DIN10/16

WH08 91/01NIO

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