# VALMATIC® DOUBLE SPHERE SCREWED RUBBER FLEXIBLE JOINT (FTU)

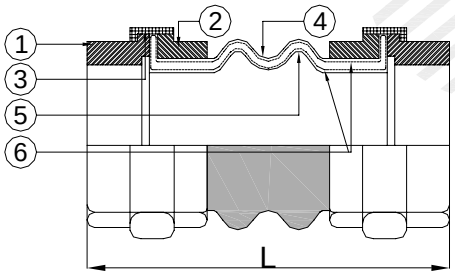
## DESCRIPTION

***VALMATIC™*** Double Sphere Screwed Rubber Flexible Joint (FTU) is designed with floating flanges for easy installation to the piping. It is used to absorb piping and pumping equipments from movement, isolate vibration, reduce system noise and compensate for misalignment. Because of the excellent moulding technique combined with tough chemical fibres, it may be used at a bursting pressure of over 790 PSI and within internal pressure of 150 PSI. This flexible joint provides high efficiency for vibration and noise isolation because of the double sphere which makes the spring constant small, decreases the body natural frequency and increases the efficiency of vibration absorption.

***VALMATIC™*** Double Sphere Screwed Rubber Flexible Joint (FTU) is generally installed on both the delivery and the suction sides of the pumps. It is applicable for water and warm water used in building equipment and general industrial plants, pump lines and turbine lines used for power generation plants, feed water and drainage lines for waterworks and sewerage, oil lines for industrial plants and shipbuilding yards, loading and unloading lines to and from ships for harbour facilities.

## APPLICATION

Suitable for water, oil, gases and non-aggressive media.




## SPECIFICATION

| | |
|---|---|
| End Connection | - Union Joint Screwed End to BSP Thread |
| Working Pressure | - Maximum 10 Bar |
| Vacuum Rating | - 660 mm/Hg |
| Working Temperature | - Up to 80˚C |

## MATERIALS

| No. | Parts | Material |
|---|---|---|
| 1. | Union Screw | Malleable Iron (Galvanize) |
| 2. | Union Flange | Malleable Iron (Galvanize) |
| 3. | Union Nut | Malleable Iron (Galvanize) |
| 4. | Body (Outer Layer) | Neoprene Rubber |
| 5. | Body (Inner Layer) | Neoprene Rubber |
| 6. | Reinforcing Cord | Nylon Cord Fabric |

Others material are available upon request.

## PRESSURE-TEMPERATURE RATINGS

| Temperature | Ambient | 40˚C | 50˚C | 60˚C | 70˚C | 80˚C |
|---|---|---|---|---|---|---|
| Operating Pressure | 10 Bar | 8.5 Bar | 7 Bar | 6 Bar | 5 Bar | 4 Bar |

## DIMENSIONS (mm) AND ALLOWABLE MOVEMENTS

| Size (DN) | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 |
|---|---|---|---|---|---|---|---|---|
| Natural Length –L | 166 | 166 | 172 | 176 | 182 | 212 | 224 | 226 |
| Axial Elongation | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Axial Compression | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| Lateral Deflection | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| Angular Movement | 32˚ | 32˚ | 25˚ | 25˚ | 20˚ | 15˚ | 12˚ | 10˚ |
| Weight (Kg) | 0.7 | 0.7 | 1.0 | 1.3 | 1.7 | 2.4 | 4.3 | 5 |

The specification is subject to change without further notice

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