

VESS Double Sphere Rubber Expansion Joint are designed for piping systems to absorb pipe movement, relieve stress, reduce system noise / vibration, compensate for misalignment / offset and to protect rotating mechanical equipment against start up surge forces. The single sphere design with more length, compared to single sphere, mechanical and acoustical performance can be almost double by changing to the most commonly specified twin sphere construction. Twin sphere designs are more flexible and allow greater movement.

### Features:

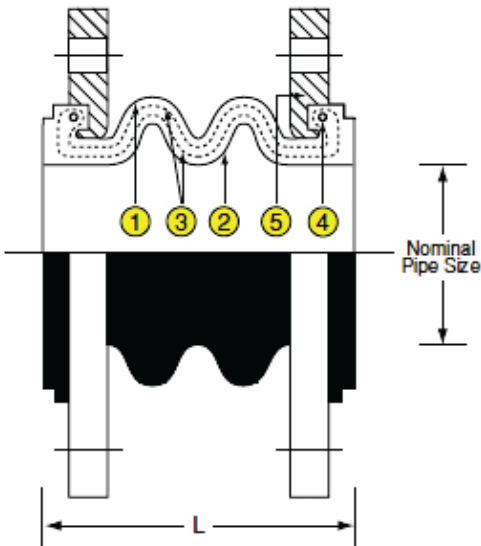
- Four way greater movements provide high level of installation flexibility.
- Applicable for both suction and delivery (Discharge).
- Excellent ability to absorb vibration and sound, withstand high pressure.
- Withstand chemical corrosion, to resist acid ozone attack.
- Test pressure is 1.5 time than operating pressure.

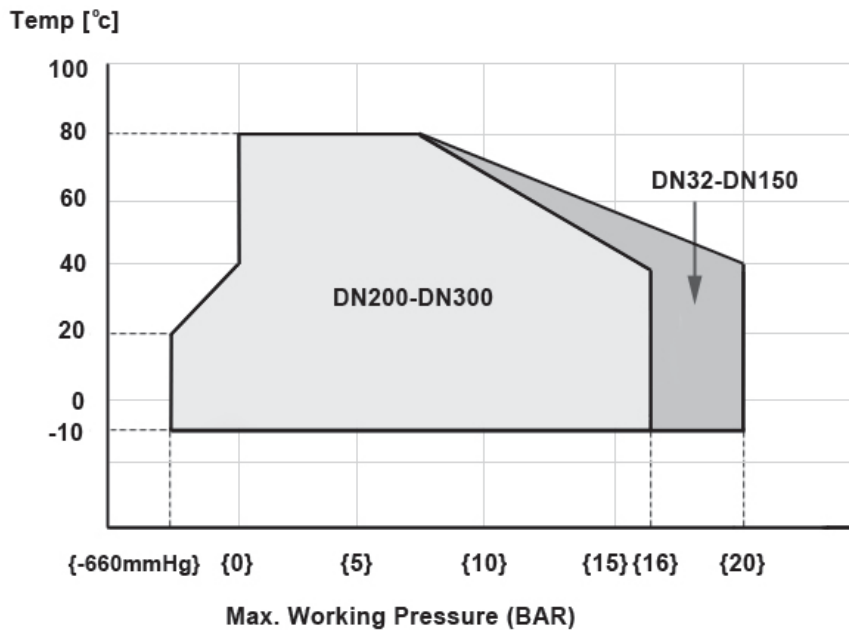
### Technical Data

Operating Pressure	DN150 & below - 16 bar DN150 & below - 20 bar (tie rod installed request) DN200 & above - 16 bar (tie rod installed request)
Operating Temperature	-10°C - 80°C
Vaccum Rating	660 mmHg
Size	32 mm - 300 mm (DN350mm above available upon request)
Application Fluid	Water, warm water, sea water, air & weak acid.
Flange Standard	BS4504 PN16 (others flange standard available upon request)

### Material Specification

No	Component	Material
1	Body (Outer Layer)	EPDM
2	Body (Inner Layer)	EPDM
3	Reinforcing Fabric	Nylon Cord Fabric
4	Wire	Hard Steel Wire
5	Flange	Mild Steel Zinc Plate





### Operating Conditions

Normal working pressure	Below 150A size : Max 20 bar at normal temp. Over 200A size : Max 16 bar at normal temp.
Bursting pressure	Max 60 bar (870 psi) or above at normal temp. For high temperature application, please consult us.
Working temperature	-10°C - 80°C

### Dimensions - Millimetres

Nominal Pipe Size		Neutral Length (L)	Axial Compression	Axial Elongation	Lateral Deflection	Angular Deflection
MM	Inch	MM	MM	MM	+/- MM	+/- DEG
32	1.25	175	50	30	45	45
40	1.5	175	50	30	45	45
50	2	175	50	30	45	45
65	2.5	175	50	30	45	43
80	3	175	50	30	45	38
100	4	225	50	35	40	34
125	5	225	50	35	40	29
150	6	225	50	35	40	25
200	8	325	60	35	35	19
250	10	325	60	35	35	15
300	12	325	60	35	35	13

\* We reserve the right to alter specifications or dimensions without prior notice.

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