EXPANSION JOINTS · FLANGED

REJ Single Sphere Rubber Expansion Joint

Single sphere rubber expansion joint precision moulded from EPDM and nylon reinforcing fabric, with floating flanges for ease of installation. Absorbs axial, lateral and angular movement, vibration and noise in DN25 to DN600 pipelines rated to 16 bar.

EPDM · NBR | FLOATING FLANGES | AS2129 D/E · ANSI 150 | DN25 – DN600



FEATURES

- Allows for four-way movement — axial, lateral and angular
- Precision moulded of synthetic rubber and nylon
- Excellent ability to absorb vibration and sound
- Excellent corrosion resistance
- Floating flanges for ease of installation
- Burst pressure 48 bar

APPLICATIONS

- Pump suction and discharge connections
- Water and wastewater treatment plants
- HVAC and chilled water systems
- Isolating vibration from rotating equipment
- Compensating pipe misalignment and thermal movement

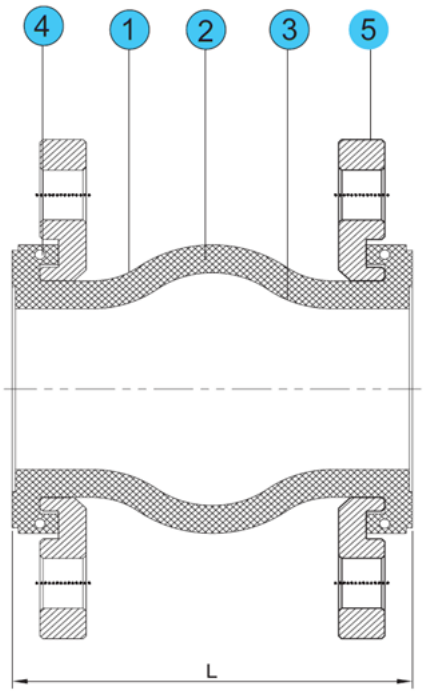
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LOCATION
36 Hub Crescent, Heathwood QLD 4110 (Head Office)

TECHNICAL SPECIFICATIONS

Size range	DN25 – DN600
Max. working pressure	16 bar
Burst pressure	48 bar (DN25 – DN600)
Vacuum	660 mm Hg
Angular movement	15°
Flange drilling	AS2129 Table D, Table E, ANSI 150
Elastomer	EPDM (NBR available)
Flange material	Carbon steel (SS316 available)

CONSTRUCTION DETAIL



Section through the joint showing the moulded sphere, reinforcing fabric and floating flanges. L face to face length. Item numbers refer to the parts list.

PARTS LIST

No.	Part name	Material
1	Cover	EPDM
2	Reinforcing fabric	Nylon
3	Tube	EPDM
4	Retaining ring	Steel
5	Flange	Carbon steel

TABLE D PN16 — PART NUMBERS & DIMENSIONS (MM)

EPDM	DN	Inch	L	Axial comp.	Axial ext.	Lateral	Angular	Max. bar	Vacuum mm Hg	Weight kg
REJD100	100	4"	135	18	10	12	15°	16	660	7.1
REJD125	125	5"	165	18	10	12	15°	16	660	9.7
REJD150	150	6"	180	18	10	12	15°	16	660	13.2
REJD200	200	8"	205	25	14	22	15°	16	660	16.9
REJD250	250	10"	240	25	14	22	15°	16	660	24.2
REJD300	300	12"	260	25	14	22	15°	16	660	33.4
REJD350	350	14"	265	25	16	22	15°	16	660	42.8
REJD400	400	16"	265	25	16	22	15°	16	660	51
REJD450	450	18"	265	25	16	22	15°	16	660	63.2
REJD500	500	20"	265	25	16	22	15°	16	660	85.7
REJD600	600	24"	265	25	16	22	15°	16	660	107.1

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TABLE E PN16 — PART NUMBERS & DIMENSIONS (MM)

EPDM	NBR	SS316 EPDM	DN	Inch	L	Axial comp.	Axial ext.	Lateral	Angular	Max. bar	Vacuum mm Hg	Weight kg
REJE025*	—	—	25	1"	95	6	8	8	15°	16	660	3
REJE032*	—	—	32	1 1/4"	95	8	4	8	15°	16	660	3
REJE040*	—	—	40	1 1/2"	95	8	4	8	15°	16	660	3.7
REJE050*	REJNE050*	REJSE050*	50	2"	105	8	5	8	15°	16	660	4.3
REJE065*	REJNE065*	REJSE065*	65	2 1/2"	115	12	6	10	15°	16	660	5.4
REJE080*	REJNE080*	REJSE080*	80	3"	130	12	6	10	15°	16	660	6.4
REJE100	REJNE100	REJSE100	100	4"	135	18	10	12	15°	16	660	7.1
REJE125*	REJNE125*	REJSE125*	125	5"	165	18	10	12	15°	16	660	9.7
REJE150	REJNE150	REJSE150	150	6"	180	18	10	12	15°	16	660	13.2
REJE200	REJNE200	REJSE200	200	8"	205	25	14	22	15°	16	660	16.9
REJE250	REJNE250	REJSE250	250	10"	240	25	14	22	15°	16	660	24.2
REJE300	REJNE300	REJSE300	300	12"	260	25	14	22	15°	16	660	33.4
REJE350	—	—	350	14"	265	25	16	22	15°	16	660	42.8
REJE400	—	—	400	16"	265	25	16	22	15°	16	660	51
REJE450	—	—	450	18"	265	25	16	22	15°	16	660	63.2
REJE500	—	—	500	20"	265	25	16	22	15°	16	660	85.7
REJE600	—	—	600	24"	265	25	16	22	15°	16	660	107.1

ANSI 150 PN16 — PART NUMBERS & DIMENSIONS (MM)

EPDM	NBR	DN	Inch	L	Axial comp.	Axial ext.	Lateral	Angular	Max. bar	Vacuum mm Hg	Weight kg
REJA025*	—	25	1"	95	6	8	8	15°	16	660	3
REJA032*	—	32	1 1/4"	95	8	4	8	15°	16	660	3
REJA040*	—	40	1 1/2"	95	8	4	8	15°	16	660	3.7
REJA050*	REJNA050*	50	2"	105	8	5	8	15°	16	660	4.3
REJA065*	REJNA065*	65	2 1/2"	115	12	6	10	15°	16	660	5.4
REJA080*	REJNA080*	80	3"	130	12	6	10	15°	16	660	6.4
REJA100	REJNA100	100	4"	135	18	10	12	15°	16	660	7.1
REJA125*	REJNA125*	125	5"	165	18	10	12	15°	16	660	9.7
REJA150	REJNA150	150	6"	180	18	10	12	15°	16	660	13.2
REJA200	REJNA200	200	8"	205	25	14	22	15°	16	660	16.9
REJA250	REJNA250	250	10"	240	25	14	22	15°	16	660	24.2
REJA300	REJNA300	300	12"	260	25	14	22	15°	16	660	33.4
REJA350	REJNA350	350	14"	265	25	16	22	15°	16	660	42.8
REJA400	REJNA400	400	16"	265	25	16	22	15°	16	660	51
REJA450	REJNA450	450	18"	265	25	16	22	15°	16	660	63.2
REJA500	REJNA500	500	20"	265	25	16	22	15°	16	660	85.7
REJA600	REJNA600	600	24"	265	25	16	22	15°	16	660	107.1

Movements in mm. Part numbers marked * are available on request — confirm lead time with Global Water Group.

Designs, materials and specifications shown are subject to change without notice due to our continuing program of product development. Pictures shown are for illustration purposes only. Confirm critical dimensions with Global Water Group prior to fabrication.