



Quick-Steel Ltd.

Manufacturers and Suppliers of Rubber and Steel Expansion Joints.

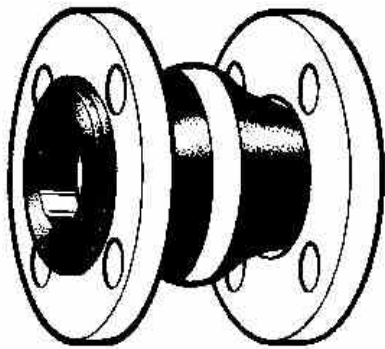
Data Sheet – Type RBS

Moulded Rubber Bellows – Type RBS



Moulded Rubber Bellows are designed to compensate for misalignment, neutralise movement and reduce noise and vibration in pipelines. They effectively dampen the transmission of sound and vibration from plant items in building service installations, and can be used for many applications including water, oils, chemicals, gases and in the food industry depending upon the grade of the rubber (please see Material Colour Chart below).

They are available from 25mm nb to 600mm nb (1"nb to 24"nb) and generally come complete with zinc plated carbon steel swivel backing flanges. They can be drilled to suit any table or special drillings and can be supplied both tied or untied.



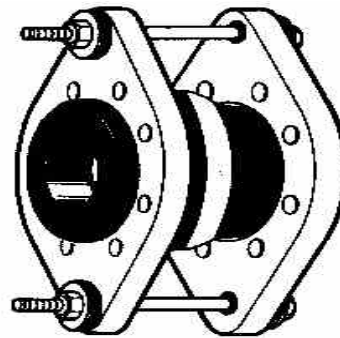
Type RBS with swivel flanges

Standard Construction

- Nylon reinforced rubber body with steel reinforced collar.
- Single arch
- Zinc plated carbon steel flanges

Options

- Different grades of rubber
- Different lengths
- Untied or tied flanges
- Flanges drilled to any table / special drilling
- Carbon steel or stainless steel flanges
- Supplied with or without vacuum support ring



Type RBS with tie rods, nuts & rubber washers

Vacuum Rating:

Where negative pressures occur or vacuum conditions exist it is recommended that vacuum support rings are used. These enhance the strength of the rubber bellows.

Vacuum support rings (anti-vac rings) are made from sprung stainless steel, and are retro-fitted inside the arch of the bellows before despatch.

Moulded Rubber Bellows must be securely anchored & adequately guided to ensure their correct performance.
Omitting anchors & guides may result in failure of the system. All Quick-Steel Ltd products should be installed in accordance with our fitting instructions.



Data Sheets – Type RBS

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Company Registration No. 4702194 VAT Registration No. 811 9492 25



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Movement data:

Nominal Bore (NB)		Standard Lengths		Alternative Length	Working Pressure	MOVEMENTS			
						Axial (mm)		Lateral (+/-)	Angular (+/-)
mm	Ins	mm		mm	Bar	Compression	Elongation	mm	deg
25	1	130	150	95	16	25	15	20	15
32	1¼	130	150	95	16	25	15	20	15
40	1½	130	150	95	16	25	15	20	15
50	2	130	150	105	16	25	15	20	15
65	2½	130	150	115	16	25	15	20	15
80	3	130	150	130	16	25	15	20	15
100	4	130	150	130	16	25	15	20	15
125	5	130	150	170	16	25	15	20	15
150	6	130	150	180	16	25	15	20	15
200	8	130	150	205	16	25	15	20	15
250	10	130	200	205	16	25	15	20	10
300	12	-	200	205	16	25	15	20	10
350	14	-	200	-	10	25	15	20	10
400	16	-	200	-	10	25	15	20	10
450	18	-	200	-	10	25	15	20	10
500	20	-	200	-	10	25	15	20	10
600	24	-	200	-	10	25	15	20	6

Material Colour Chart

Colour	Material	Main Applications	Max Temp °C
Red	EPDM	Hot water, heating & ventilation systems, weak acids & alkalis	90
Double Red	EPDM	High temperature hot water, heating & ventilation systems, weak acids & alkalis.	120
Yellow	Nitrile	Oil & gas transportation, refineries	80
Green	Hypalon	Water, Good chemical resistant qualities for acids	90
Purple	Viton	High temp applications, transportation of products derived from petroleum / chemicals / oils / solvents	180
White	Food Grade Nitrile	Transportation of food stuffs, potable water distribution	80
Blue	Butyl HT	High temperature	130

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