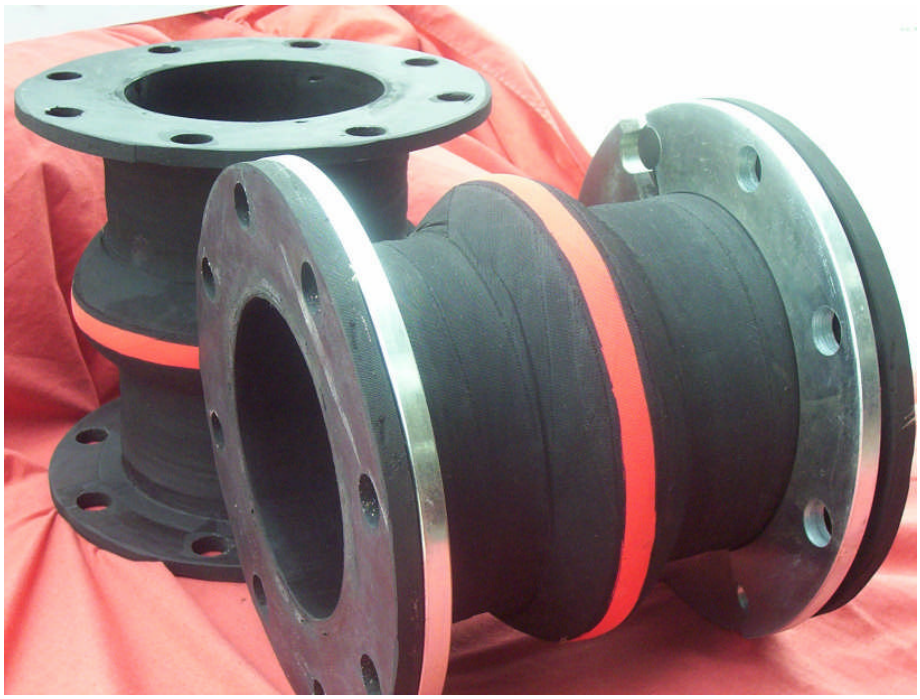
Quick-Steel Ltd.

Manufacturers and Suppliers of Rubber and Steel Expansion Joints

Data Sheet - Type RBH

Handbuilt Rubber Bellows – Type RBH



Handbuilt Rubber Bellows are designed to neutralise movement, compensate for misalignment and reduce noise and vibration in pipelines. They can be tailored to fit any application as they are designed and manufactured specifically to suit.

Our Type RBH is generally supplied with self sealing, full face solid rubber flanges and split zinc plated backing flanges to your specific drilling requirement.

Negative Pressures and Vacuum

Where negative pressures and vacuum conditions exist, it is recommended that vacuum support rings are used. These are usually built in to the body of the bellows, but can be retro-fitted if required. The size of vacuum support rings is determined by the negative pressure rating required.

Pressure Ratings

As standard our type RBH have two alternative build specifications; 10 bar or 16 bar but alternative pressure ratings are available.

Bespoke Designs

Alternative lengths and variations in construction ie. filled arch, multi arch, spool type or cuff ended can be offered enabling the design of the bellows to be tailored specifically to your requirement.

Cuff Ended RBH

Handbuilt 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.

Units 13 & 14 Wallace Court, Road Three Winsford Ind. Est. Winsford, Cheshire, CW7 3PD
Tel: 01606 862225 Fax: 01606 593539 Email: sales@quicksteelltd.co.uk Website: www.quicksteelltd.co.uk
Company Registration No. 4702194 VAT Registration No. 811 9492 25

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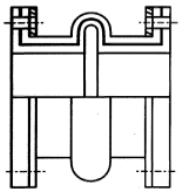
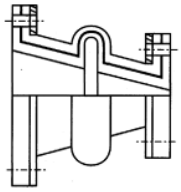
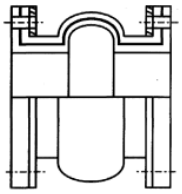
The figures below show the options available in terms of construction;



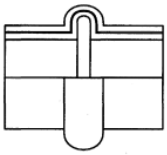
Single Arch
Standard Single Arch suited to most movement and vibration applications.



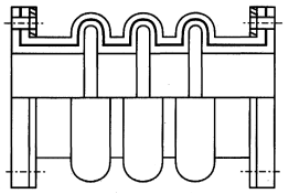
Single Arch Tapered
Used to reduce the bore size of pipe and also absorb movement & vibration



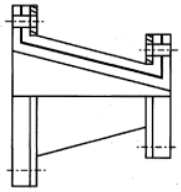
Wide Arch
Similar to the standard single arch but offers increased movement in restricted gaps.



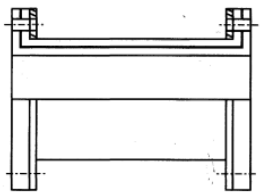
Cuff Ended
Similar to the standard flanged type but can be made to any ID to clamp onto pipe and machinery.



Multiple Arch
Used to gain greater movement by the addition of extra arches where increased length is available.



Spool Type Tapered
Similar to the single arch tapered but smooth bore to prevent build up of media and reduce turbulence.



Hose Type
Used where a smooth bore is required.

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Movement data:

NB		Length		W.P	MOVEMENTS			
mm	ins	mm		Bar	Compression(mm)	Elongation(mm)	Lateral+/-(mm)	Angular+/-(deg)
50	2	200	-	10	20	8	15	5
65	2½	200	-	10	20	8	15	5
80	3	200	-	10	20	8	15	5
100	4	200	-	10	20	8	15	5
125	5	250	-	10	20	8	15	5
150	6	250	-	10	25	10	10	5
200	8	250	-	10	25	10	10	5
250	10	250	-	10	30	12	25	5
300	12	250	-	10	30	12	25	5
350	14	250	-	10	30	12	25	5
400	16	250	-	10	40	15	30	6
450	18	250	300	10	40	15	30	6
500	20	250	300	10	40	15	30	6
600	24	250	300	10	40	15	30	6
700	28	250	300	10	40	15	30	6
800	32	300	310	10	40	15	30	6
900	36	300	310	10	40	15	30	6
1000	40	300	310	8	40	15	30	6
1100	44	-	350	8	40	15	30	6
1200	48	-	350	8	40	15	30	5
1300	52	-	350	8	40	15	30	5
1400	56	-	350	8	40	15	30	5
1500	60	-	350	8	40	15	30	5
1600	64	-	350	6	40	15	30	4
1800	72	-	350	6	40	15	30	4
2000	80	-	350	6	40	15	30	4
2200	88	-	350	6	40	15	25	4
2400	96	-	350	6	30	15	25	3

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