



style hs high spool arch rubber expansion joints

description

A hand built joint with a spherical high arch made of heat resisting synthetic rubbers with one piece bonding of the two flanges. These joints can be supplied with 1, 2 or 3 individual arches.

manufacture

Manufactured from heat and chemical resisting elastomers combining woven nylon fabric and tyre cord bonded with the elastomer and reinforced with wire.

The integral bonded flange faces provide a full face seal to the matching pipework flanges, and can be reinforced with split metal reinforcing flanges.

The high arch of the style HS joint can be 'filled' to reduce flow turbulence and the build up of conveyed solids inside the arch of the joint.

specifications

As these joints are hand built, the listed specifications attached are approximate only. They are based on 80°C operating temperature. The specifications are provided as a guide only. The operating (working) pressures listed are in accordance with Fluid Sealing Association standards.

filled arch specifications

The movement ratings for 'filled arch' joints are approximately 50% less than those listed for 'unfilled' arch joints.

pressure and temperature

Please refer to the 'technical aspects' and 'limit and control rods' data sheets.

other diameters and lengths

The style HS expansion joints being hand-built can be manufactured to a variety of diameters and lengths. Listed on the specification sheets. are some common sizes to provide a guide as to their performance capabilities.

These joints are available in nominal bores up to 2400mm (96 inches).

Refer Radcoflex for details.

vacuum ratings

These standard joints have a vacuum rating of -

Nominal bores

25-300mm 660mm Hg (26"Hg)

355mm- 400mm Hg (15"Hg)

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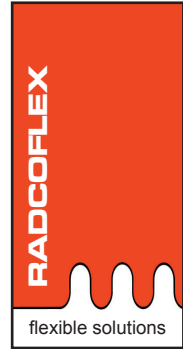


single arch - part HS1A

nominal bore		length installed free mm	movements from free length (mm)			pressure @ 80°C positive kPa	weight esti- joint only kgs
inside mm	inches		comp	axial elong	lateral		
25	1	152	12	6	15	1130	0.8
40	1 1/2	152	12	6	15	1130	1.4
50	2	152	12	6	15	1130	1.8
65	2 1/2	152	12	6	15	1130	2.0
80	3	152	12	6	15	1130	2.5
100	4	152	12	6	15	1130	3.6
125	5	152	12	6	15	960	4.1
150	6	152	12	6	15	960	5.0
200	8	152	18	10	15	960	6.8
250	10	203	18	10	15	960	10.4
300	12	203	18	10	15	960	15.4
350	14	203	18	10	15	580	18.1
400	16	203	18	10	15	440	21.3
450	18	203	18	10	15	440	25.4
500	20	203	21	12	15	440	30.4
600	24	254	21	12	15	440	35.8
750	30	254	24	15	15	370	53.1
900	36	254	24	15	15	370	64.9
1050	42	305	26	15	15	370	87.5
1200	48	305	26	15	15	370	95.7
1350	54	305	26	15	15	370	120.1
1500	60	305	26	15	15	370	140.6
1800	72	305	26	15	15	310	176.9
2100	84	305	26	15	15	310	200.0

data sheet - RJ 016

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double arch - part HS2A

nominal bore		length installed	movements from free length(mm)			pressure @ 80°C	weight esti-
inside		free	axial	lateral	positive	joint only	
mm	inches	mm	comp	elong	kPa	kgs	
40	1 1/2	254	22	15	25	1130	1.4
50	2	254	22	15	25	1130	1.8
65	2 1/2	254	22	15	25	1130	2.0
80	3	254	22	15	25	1130	2.7
100	4	254	22	15	25	1130	3.9
125	5	254	22	15	25	960	4.3
150	6	254	22	15	25	960	5.2
200	8	254	35	20	25	960	7.3
250	10	305	35	20	25	960	12.8
300	12	305	35	20	25	960	16.3
350	14	305	35	20	25	580	20.0
400	16	305	35	20	25	440	24.0
450	18	305	35	20	25	440	27.7
500	20	305	40	22	25	440	33.1
600	24	355	40	22	25	440	40.0
750	30	355	48	26	25	370	57.6
900	36	355	48	26	25	370	70.8
1050	42	355	50	28	25	370	95.7
1200	48	355	50	28	25	370	100.7

data sheet - RJ 016

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triple arch - part HS3A

nominal bore		length installed	movements from free length (mm)			pressure @ 80°C	weight esti-
inside		free	axial		lateral	positive	joint only
mm	inches	mm	comp	elong		kPa	kgs
40	1 1/2	305	33	18	38	1130	1.8
50	2	305	33	18	38	1130	2.5
65	2 1/2	305	33	18	38	1130	2.7
80	3	305	33	18	38	1130	3.2
100	4	305	33	18	38	1130	4.1
125	5	305	33	18	38	960	5.0
150	6	305	33	18	38	960	6.1
200	8	355	50	28	38	960	8.2
250	10	355	50	28	38	960	14.1
300	12	355	50	28	38	960	18.1
350	14	406	50	28	38	580	22.0
400	16	406	50	28	38	440	24.9
450	18	406	50	28	38	440	29.9
500	20	406	60	33	38	440	35.4
600	24	457	60	33	38	440	41.5
750	30	457	70	40	38	370	59.4
900	36	457	70	40	38	370	71.2