



EXPERT IN EXPANSION JOINTS

## DATA SHEET RUBBER EXPANSION JOINTS

LBH Rubber Expansion Joints provides an effective and durable solution to the problems of handling wet gasses and associated condensates in hot air and flue gas systems. The Elastomer Expansion Joints can easily absorb multidirectional movements/vibrations and compensate for resulting misalignment. These types of products are mainly used when temperatures are below dew point.



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## LBH Rubber Solution

Rubber expansion joints provide superior movement capability in axial compression, axial extension, and lateral deflection, as well as in the angular and torsional direction.

Thermal movements along with other external forces and displacements, including ground settlement can quickly exceed allowable pipe and anchor stresses. Rubber expansion joints absorb these stresses and replace them with their own low stiffness.

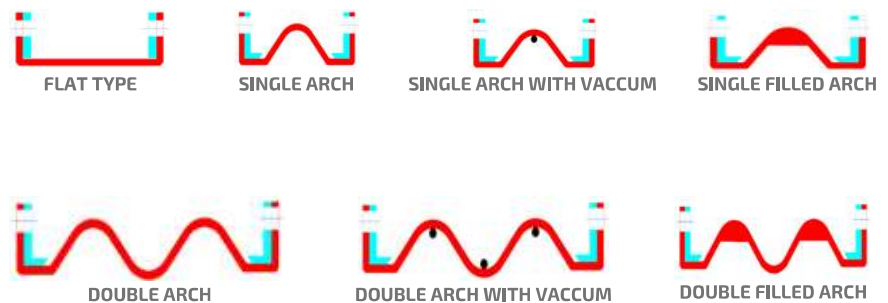
Rubber expansion joints can be used also as a prevent the transfer of mechanical vibrations from machines. Metal expansion joints reduce noise and vibration less than rubber parts. Rubber expansion joints are ideally suited for earthquake, as well as pressure-surge and water hammer dampening.

## Features & Advantages

Each joint is made from a single elastomer material laminated with one or more reinforcement layers and vulcanized to form a solid.

provides an effective and durable solution to the problems of handling wet gasses and associated condensates in hot air and flue gas systems.

Rubber bellows mainly used when the temperatures are below dew point.



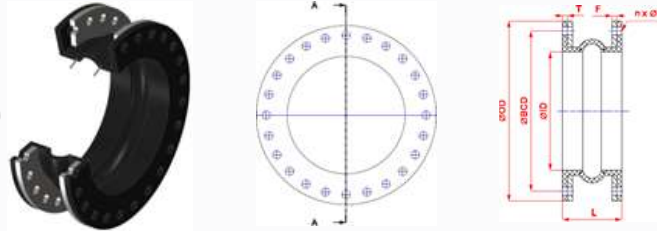
DESIGN	MODAL CODE	TEMPERATURE	PRESSURE
FLAT	F001, F002, F003, F004	-35 to 120 °C	Up to 10 Bar
SINGLE ARCH	SA001, SA002, SA003, SA004	-35 to 120 °C	Up to 10 Bar
SINGLE ARCH WITH VACUUM	SAIR001, SAIR002, SAIR003, SAIR004	-35 to 120 °C	Up to 25 Bar Vaccum 0.05 Bar
SINGLE FILLED ARCH	SAF001, SAF002, SAF003, SAF004	-35 to 120 °C	Up to 10 Bar Vaccum 0.05 Bar
DOUBLE ARCH	DA001, DA002, DA003, DA004	-35 to 120 °C	Up to 10 Bar
DOUBLE ARCH WITH VACUUM	DAIR001, DAIR002, DAIR003, DAIR004	-35 to 120 °C	Up to 25 Bar Vaccum 0.05 Bar
DOUBLE FILLED ARCH	DAF001, DAF002, DAF003, DAF004	-35 to 120 °C	Up to 10 Bar Vaccum 0.05 Bar
PTFE LINED	PT001, PT002	-35 to 120 °C	Up to 10 Bar Vaccum 0.05 Bar
CONICAL	C001, C002	-35 to 120 °C	Up to 10 Bar Vaccum 0.05 Bar
RECTANGULAR	R001, R002	-35 to 120 °C	Up to 10 Bar Vaccum 0.05 Bar

## Recommended Applications

- CHILLED WATER NETWORK
- PAPER & PULP MILLS
- WATER & WASTE WATER TREATMENT PLANT
- DESALINATION PLANT
- BRICK INDUSTRY
- STEEL MILLS
- CEMENT & CHEMICAL PLANT



## SINGLE ARCH



### DESIGN

Hydrodynamic and elastic bellows with single arch and with full faced rubber flanges, embedded reinforcement ring, with/without vacuum support ring depending on a operating conditions.

### RUBBER MATERIAL:

- EPDM
- Neopren
- Nitril
- Hypalon
- Natural
- Buthyl HT
- EPDM HT/Wrap



Nominal Size		Min Length	Flange Connection		Movement Capability			Max. Pressure	Vaccum	
DN	Inch	mm	No.Holes	OD	Axial	Lateral	Angular			
					Comp.(mm)	Ext.(mm)	(mm)	(°C)		
25	1	150	Flange Drilling according to Customer request for example CLASS 150, CLASS 300, PN6, PN10, JIS 5K, JIS 10K, AWWA		20	10	12	38.2	12	760
32	1.25	150			20	10	12	32.2	12	760
40	1.5	150			20	10	12	27.7	12	760
50	2	150			35	17	16	34.6	12	760
65	2.5	150			35	17	16	28.9	12	760
80	3	150			35	17	16	24.7	12	760
100	4	150			35	17	16	19	12	760
125	5	150			40	20	18	17.5	12	760
150	6	150			40	20	18	14.7	12	760
200	8	150			40	20	18	11.1	10	760
250	10	200			40	20	18	8.9	10	760
300	12	200			40	20	20	7.5	10	760
350	14	200			40	20	20	6.4	10	760
400	16	200			40	20	20	5.6	8	760
450	18	200			40	20	20	5	8	760
500	20	200			40	20	20	4.5	8	760
550	22	250			50	25	23	5.1	8	760
600	24	250			50	25	23	4.7	8	760
650	26	250			50	25	23	4.3	7	760
700	28	250			50	25	23	4	7	760
750	30	250	50	25	23	3.8	7	760		
800	32	250	50	25	23	3.5	7	760		
850	34	250	50	25	23	3.3	7	760		
900	36	250	50	25	23	3.1	7	760		
950	38	250	50	25	23	3	7	760		
1000	40	250	50	25	23	2.8	7	760		



**SA001**  
Rubber Faced Flange



**SA002**  
Metal Faced Flange



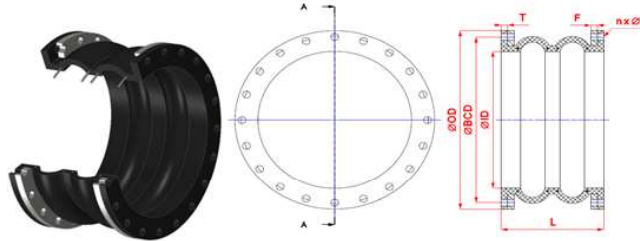
**SA003**  
Clamp Fixing Type



**SA004**  
With Limit Rods

\*Note: Nominal size is available up to 3600 mm. Bigger sizes available upon request.

## DOUBLE ARCH



### DESIGN

Hydrodynamic and elastic bellows with double arch and with full faced rubber flanges, embedded reinforcement ring, with/without vacuum support ring depending on a operating conditions.

### RUBBER MATERIAL:

- EPDM
- Neopren
- Nitril
- Hypalon
- Natural
- Buthyl HT
- EPDM HT/Wrap



Nominal Size		Min Length	Flange Connection		Movement Capability			Max. Pressure	Vaccum	
DN	Inch	mm	No.Holes	OD	Axial	Lateral	Angular			
					Comp.(mm)	Ext.(mm)	(mm)	(°C)		
25	1	250	Flange Drilling according to Customer request for example CLASS 150, CLASS 300, PN6, PN10, JIS 5K, JIS 10K, AWWA		40	20	24	57.6	12	600
32	1.25	250			40	20	24	51.6	12	600
40	1.5	250			40	20	24	46.4	12	600
50	2	250			70	35	32	54.0	12	600
65	2.5	250			70	35	32	47.6	12	600
80	3	250			70	35	32	42.6	12	600
100	4	250			70	35	32	34.6	12	600
125	5	250			80	40	36	32.0	12	600
150	6	250			80	40	36	27.7	12	600
200	8	250			80	40	36	21.0	10	600
250	10	350			80	40	36	17.5	10	600
300	12	350			80	40	40	14.7	10	600
350	14	350			80	40	40	12.7	10	600
400	16	350			80	40	40	11.1	8	600
450	18	350			80	40	40	9.9	8	600
500	20	350			80	40	40	8.9	8	600
550	22	400			100	50	46	10.1	8	600
600	24	400			100	50	46	9.0	8	600
650	26	400			100	50	46	8.6	7	600
700	28	400			100	50	46	8	7	600
750	30	400	100	50	46	7.4	7	500		
800	32	400	100	50	46	7	7	500		
850	34	400	100	50	23	6.3	7	500		
900	36	400	100	50	23	6.2	7	500		
950	38	400	100	50	23	5.0	7	500		
1000	40	400	100	50	23	5.6	7	500		



**DA001**  
Rubber Faced Flange



**DA002**  
Metal Faced Flange



**DA003**  
Clamp Fixing Type



**DA004**  
With Limit Rods

\*Note: Nominal size is available up to 3600 mm. Bigger sizes available upon request.

## Our Global Service Presence



**MV RESOURCES (FE) PTE LTD**

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31 Benoi Road (Pioneer Lot), Singapore 627778  
Tel: +65 67763233 Fax: +65 67753233  
Website: [www.mvfareast.com.sg](http://www.mvfareast.com.sg)  
Sales Manager: Mr Sean Lim  
Mobile: +65 91198320  
Email: [sean@mvfareast.com.sg](mailto:sean@mvfareast.com.sg)



Certificate No. SGO410009



## AMERICA | EUROPE | ASIA

It is our vision to be the preferred supplier of Expansion Joints on the global market. LBH International A/S strives to be known as a supplier of premium quality.

