Shoreline Technology

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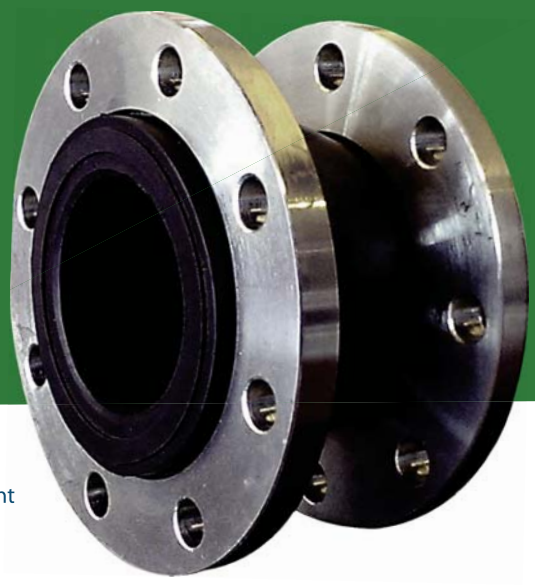
Single Sphere
Rubber Expansion Joint

MR4000



Features

Shortline Technology expansion joints are designed to accommodate misalignment and both axial and lateral movement. They are also used to absorb thermal expansion, reduce noise and vibration from mechanical equipments. Due to their available type of materials, MR4000 series are suitable for a variety range of media. In all, MR4000 series rubber expansion joints are ideal to be used to protect and serve your piping systems.

Application

Color Code	Inner Material	Cover Material	Application
Blue	Neoprene	Neoprene	Excellent Aging resistance, for alkaline and acid salt soultions and aldehydes.
Red	EPDM	EPDM	Higher temp. good ozone resistance, resilience, bend easier lower temp, but not suitable for oils.
Black	Butyl	Butyl	Lower impermeable; resistance offer to ozone, weather, abrasion, chemical.
Yellow	Nitirle	Neoprene	Recommend for oils, greases, petrol, fats,glycols, alcohols, ethers and gas.
White	Nitrile	Nitrile	For drinking water or food grade white color quality up to 150 psi/10bar at 158°F/70°C
Green	Hypalon	Hypalon	Ozone resistance sunlight stable, for strong acids, alkalis and chemicals.

Specification

Nominal Diameter		Length	Travel (mm)	Allowable Movement				Pressure	
Model MR	(inch)	(inch)	Total Compressed Extended	Axial Compression (in.)	Axial Extension (in.)	Lateral Deflection (in.)	Angular Deflection (deg.)	Positive[1] (psig.)	Negative[2] (Vacuum) (in.Hg)
4012	1-1/4"	6	140-162	0.5	0.38	0.5	15	225	26
4015	1-1/2"	6	140-162	0.5	0.38	0.5	15	225	26
4020	2"	6	140-162	0.5	0.38	0.5	15	225	26
4025	2-1/2"	6	140-162	0.5	0.38	0.5	15	225	26
4030	3"	6	140-162	0.5	0.38	0.5	15	225	26
4040	4"	6	133-165	0.63	0.38	0.5	15	225	26
4050	5"	6	133-165	0.63	0.38	0.5	15	225	26
4060	6"	6	133-165	0.63	0.38	0.5	15	225	26
4080	8"	6	133-165	0.63	0.38	0.5	15	225	26
4100	10"	8	178-219	0.63	0.5	0.75	15	225	26
4120	12"	8	178-219	0.75	0.5	0.75	15	225	26
4140	14"	8	178-219	0.75	0.5	0.75	15	150	26
4160	16"	8	178-219	0.75	0.5	0.75	15	150	26
4180	18"	8	178-219	0.75	0.5	0.75	15	150	26
4200	20"	8	178-219	0.75	0.5	0.75	15	150	26

FOR PRODUCT SELECTION, PLEACE CONTACT US FOR PROFESSIONAL ADVICE.

Note:
1: The pressure rating is at 175°F. As Temperature Increases, the pressure rating is reduced.
2: For vacuum application, please contact us for professional advice. Negative pressure rating is valid if and only if vacuum ring is installed.
3: For size from 8"~12", control unit installation is required for working pressure at 225 psig.
4. For size from 14"~24", control unit installation is required for working pressure at 150 psig.

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Double Spheres Rubber Expansion Joint

MR5000

Features

Shortline Technology expansion joints are designed to accommodate misalignment and both axial and lateral movement. They are also used to absorb thermal expansion, reduce noise and vibration from mechanical equipments. Due to their available type of materials, MR5000 series are suitable for a variety range of media. In all, MR5000 series rubber expansion joints are ideal to be used to protect and serve your piping systems.

Application

Color Code	Inner Material	Cover Material	Application
Blue	Neoprene	Neoprene	Excellent Aging resistance, for alkaline and acid salt soultions and aldehydes.
Red	EPDM	EPDM	Higher temp. good ozone resistance, resilience, bend easier lower temp, but not suitable for oils.
Black	Butyl	Butyl	Lower impermeable; resistance offer to ozone, weather, abrasion, chemical.
Yellow	Nitrile	Neoprene	Recommend for oils, greases, petrol, fats,glycols, alcohols, ethers and gas.
White	Nitrile	Nitrile	For drinking water or food grade white color quality up to 150 psi/10bar at 158°F/70°C
Green	Hypalon	Hypalon	Ozone resistance sunlight stable, for strong acids, alkalis and chemicals.

Specification

Nominal Diameter		Length (inch)	Travel (mm)	Allowable Movement				Pressure	
Model MR	(inch)		Total Compressed Extended	Axial Compression (in.)	Axial Extension (in.)	Lateral Deflection (in.)	Angular Deflection (deg.)	Positive[1] (psig.)	Negative[2] (Vacuum) (in.Hg)
5012	1-1/4"	7	125-205	2	1	1.75	35	225	26
5015	1-1/2"	7	125-205	2	1	1.75	35	225	26
5020	2"	7	125-205	2	1	1.75	35	225	26
5025	2-1/2"	7	125-205	2	1.38	1.75	35	225	26
5030	3"	7	125-205	2	1.38	1.75	35	225	26
5040	4"	9	175-260	2	1.38	1.5	35	225	26
5050	5"	9	175-260	2	1.38	1.5	30	225	26
5060	6"	9	175-260	2	1.38	1.5	30	225	26
5080	8"	13	275-360	2.5	1.38	1.25	30	225	26
5100	10"	13	275-360	2.5	1.38	1.25	30	225	26
5120	12"	13	275-360	2.5	1.38	1.25	20	225	26
5140	14"	14	305-380	1.5	1.1	1.1	20	150	26
5160	16"	14	305-380	1.5	1.1	1.1	20	150	26
5180	18"	14	305-380	1.5	1.1	1.1	20	150	26
5200	20"	14	305-380	1.5	1.1	1.1	20	150	26

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Note:
1: The pressure rating is at 175°F.As Temperature Increases, the pressure rating is reduced.
2: For vacuum application, please contact us for professional advice.
3: For size from 8"~12", control unit installation is required for working pressure at 225 psig.
4. For size from 14"~24", control unit installation is required for working pressure at 150 psig.

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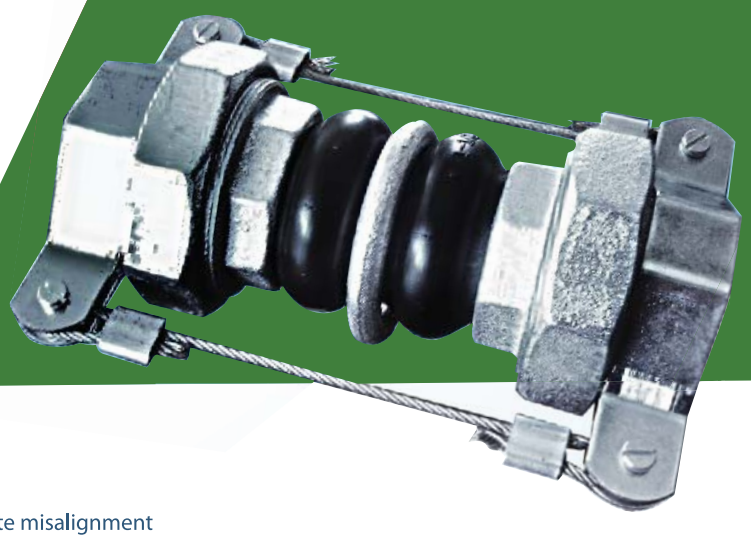
Union Rubber connector

MR7000



Features

Shortline Technology expansion joints are designed to accommodate misalignment and both axial and lateral movement. They are also used to absorb thermal expansion, reduce noise and vibration from mechanical equipments. Due to their available type of materials, MR7000 series are suitable for a variety range of media. In all, MR7000 series rubber expansion joints are ideal to be used to protect and serve your piping systems.

Specification

Double Spheres Union Connector

Nominal Diameter		Installed Length		Travel(mm)	Allowable Movement				Pressure	
Model MR	(inch)	Neutral Length (inch)	Minimum Maximum Installed	Compressed to Extended	Axial Compression (in.)	Axial Extension (in.)	Lateral Deflection (in.)	Angular Deflection (deg.)	Positive[1] (psig.)	Negative[2] (Vacuum) (in.Hg)
7007	3/4"	8	186-206	181-209	1.87	0.23	0.87	30	150	26
7010	1"	8	186-206	181-209	1.87	0.23	0.87	25	150	26
7012	1-1/4"	8	186-206	181-209	1.87	0.23	0.87	25	150	26
7015	1-1/2"	8	186-206	181-209	1.87	0.23	0.87	20	150	26
7020	2"	8	186-206	181-209	1.87	0.23	0.87	15	150	26
7025	2-1/2"	8	186-206	181-209	1.87	0.23	0.87	12	150	26
7030	3"	8	186-206	181-209	1.87	0.23	0.87	10	150	26

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Note:
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Wide-Arch Rubber Expansion Joint

MR9000

Features

The MR9000 wide arch expansion joint is interchangeable and replaces handmade spool type. There is no metal reinforcing imbedded in the carcass. In addition pressure is contained by using an integral sleeve on the back-up flange. The arch is much wider then that of a conventional joint, which provides greater movement. It is also available with a filled arch that reduces movement by 50%. Flat face flanges interal with the body mate to 125/150# flanges.

Application

Color Code	Inner Material	Cover Material	Application
Blue	Neoprene	Neoprene	Excellent Aging resistance, for alkaline and acid salt soultions and aldehydes.
Red	EPDM	EPDM	Higher temp. good ozone resistance, resilience, bend easier lower temp, but not suitable for oils.
Black	Butyl	Butyl	Lower impermeable; resistance offer to ozone, weather, abrasion, chemical.
Yellow	Nitirle	Neoprene	Recommend for oils, greases, petrol, fats,glycols, alcohols, ethers and gas.
White	Nitrile	Nitrile	For drinking water or food grade white color quality up to 150 psi/10bar at 158°F/70°C
Green	Hypalon	Hypalon	Ozone resistance sunlight stable, for strong acids, alkalis and chemicals.

Diameter		Neutral Length	Allowable Movement				Pressure	
Model MR	(inch)	(Inch)	Axial Compression (in.)	Axial Extension (in.)	Lateral Deflection (in.)	Angular Deflection (deg.)	Positive[1] (psig.)	Negative[2] (in.Hg)
9020	2"	6	0.5	0.38	0.5	15	150	15
9025	2-1/2"	6	0.5	0.38	0.5	15	150	15
9030	3"	6	0.5	0.38	0.5	15	150	15
9040	4"	6	0.5	0.38	0.5	15	150	15
9050	5"	6	0.5	0.38	0.5	15	150	10
9060	6"	6	0.63	0.38	0.5	15	150	10
9080	8"	6	0.63	0.38	0.5	15	150	10
9100	10"	8	0.63	0.38	0.5	15	150	10
9120	12"	8	0.63	0.38	0.5	15	150	10
9140	14"	8	0.63	0.5	0.75	15	130	10
9160	16"	8	0.75	0.5	0.75	15	110	10
9180	18"	8	0.75	0.5	0.75	15	110	10
9200	20"	8	0.75	0.5	0.75	15	100	10
9240	24"	8	0.75	0.5	0.75	15	100	10

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2 PCS BALL VALVE

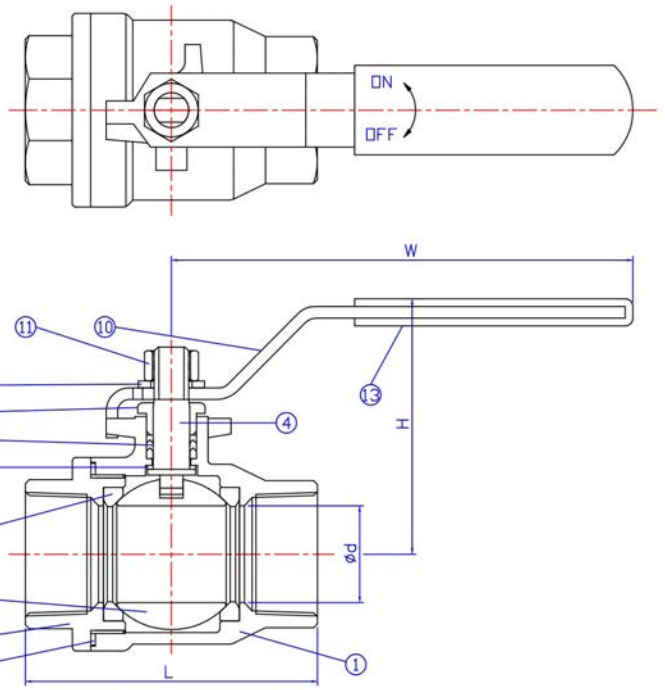
BV2200

Features

The BV2200 stainless steel ball valves are suted for various applications up to 1000 WOG. BV2200 is a two-piece-design for fast and low cost maintenance. The quarter turn operation in conjunction with the PTFE seats provides fast positive isolation. Sizes range from 1/4" to 3". They are available in threaded, NPT, socket weld and butt weld.

Specification

NO	PARTS	MATERIAL
1	BODY	A351-CF8M
2	CAP	A351-CF8M
3	BALL	A351-CF8M
4	STEM	SS316
5	SEAT	PTFE
6	GASKET	PTFE
7	STEM PACKING	PTFE
8	GLAND	SS304
9	THRUST WASHER	PTFE
10	HANDLE	SS304
11	NUT	SS304
12	WASHER	SS304
13	HANDLE SLEEVE	VINYL



SIZE	d	L	H	w	TORQUE (lbf. in)
1/4"	0.43	1.97	2.28	4.06	35
3/8"	0.46	1.97	2.28	4.06	35
1/2"	0.57	2.32	2.28	4.06	44
3/4"	0.79	2.64	2.44	5.04	66
1"	0.98	3.0	2.6	5.04	88
1-1/4"	1.26	3.54	3.19	6.14	132
1-1/2"	1.5	3.9	3.39	6.14	177
2"	1.97	4.76	3.86	7.16	221
2-1/2"	2.5	6.3	5.43	9.69	310
3"	3	6.69	5.83	9.69	531

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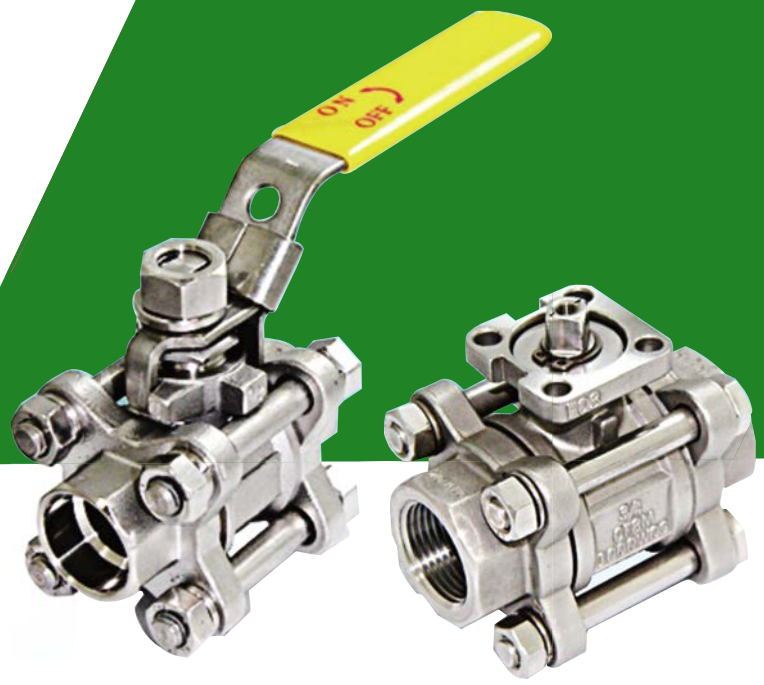
Shoreline Technology

3 PCS BALL VALVE

BV2300

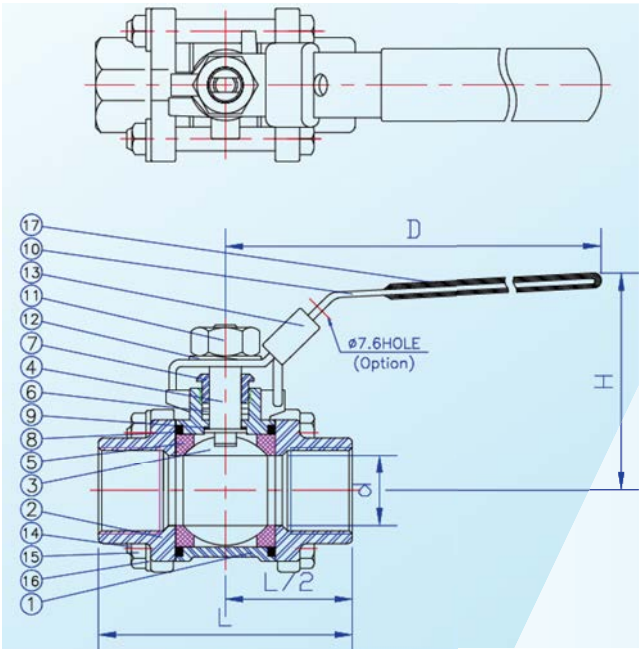


Features

The BV2300 stainless steel ball valves are suted for various applications up to 1000 WOG. BV2300 is a three-piece-design for fast and low cost maintenance. The quarter turn operation in conjunction with the PTFE seats provides fast positive isolation. Sizes range from 1/4" to 4". They are available in threaded, NPT, socket weld and butt weld.

Specification

NO	PARTS	MATERIAL
1	BODY	A351-CF8M
2	CAP	A351-CF8M
3	BALL	A351-CF8M
4	STEM	SS316
5	SEAT	PTFE
6	STEM PACKING	PTFE
7	GLAND	SS304
8	END SEAL	PTFE
9	THRUST WASHER	PTFE
10	HANDLE	SS304
11	HANDLE NUT	SS304
12	HANDLE WASHER	SS304
13	LOCKING PLATE	SS304
14	BOLT	SS304
15	BOLT NUTS	SS304
16	BOLT WASHER	SS304
17	HANDLE SLEEVE	VINYL



SIZE	d	L	H	D	TORQUE (lbf. in)
1/4"	0.44	2.56	1.97	3.82	45
3/8"	0.5	2.56	1.97	3.82	45
1/2"	0.63	2.8	2.36	4.96	45
3/4"	0.79	3.35	2.48	4.96	60
1"	0.98	3.74	3.15	5.71	70
1-1/4"	1.26	4.41	3.39	5.71	90
1-1/2"	1.5	4.84	3.7	8.03	135
2"	2	5.55	4.09	8.04	180
2-1/2"	2.56	6.81	5.51	9.76	250
3"	3	7.56	5.98	9.76	300
4"	3.93	8.86	7.09	11.5	400

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