

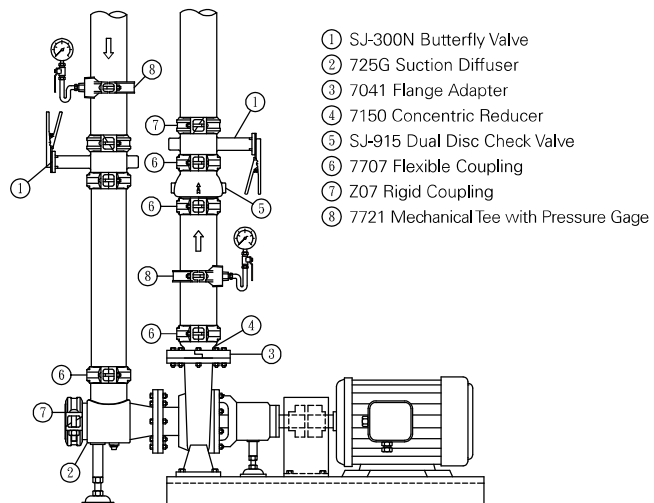
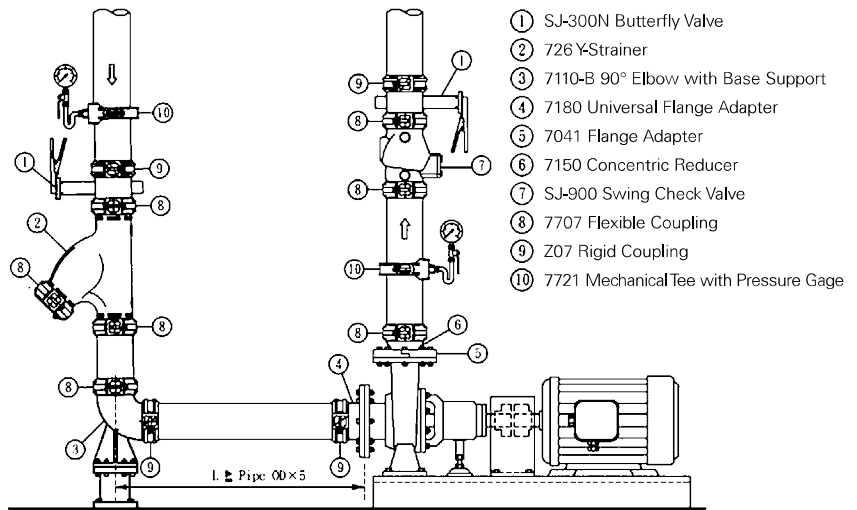
Section 4

Valves & Flow Control Components

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Valves and Flow Control Components

Shurjoint offers a wide range of grooved-end butterfly valves, ball valves, check valves, suction diffusers, strainers and expansion joints. Grooved-end valves and components can be installed 3 – 4 times faster than comparable flange components. With the removal of just a few bolts one can easily access the system for cleaning, maintenance, changes and or system expansion.



Model

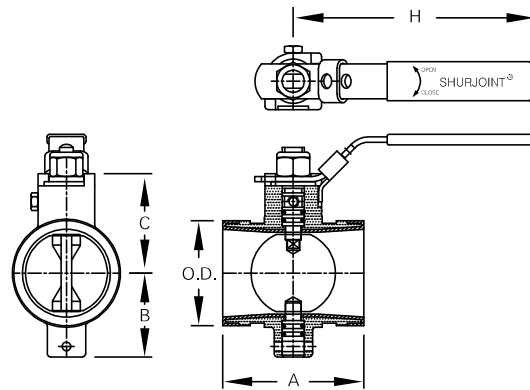
SJ-200 Low-Profile Butterfly Valve

The Shurjoint Model SJ-200 Butterfly Valve is a low profile, grooved-end butterfly valve designed for oil & gas, mining and other service applications. The working pressure is rated up to 232 psi / 1600 kPa and service temperatures are rated to +180°F / +82°C

(Nitrile body liner). The Model SJ-200 features a fully rubber lined body with 316 stainless steel disc. The end to end dimensions conform to MSS SP-67. The lever handle is equipped with a tamper resistant locking device.



Not Recommended for Steam.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions				Weight
			A	B	C	H	
in	in	PSI	in	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	mm	Kgs
2	2.375	232	3.19	1.89	2.25	5.51	2.0
50	60.3	16	81	48	57	140	0.9
2½	2.875	232	3.82	2.13	2.65	7.48	3.3
65	73.0	16	97	54	67	190	1.5
3	3.500	232	3.82	2.44	2.94	7.48	4.2
80	88.9	16	97	62	75	190	1.9
4	4.500	232	4.57	3.00	4.19	10.79	8.6
100	114.3	16	116	76	106.3	274	3.9
6	6.625	232	5.83	4.09	5.45	10.79	22.2
150	168.3	16	148	104	138.5	274	10.1
8	8.625	232	5.25	5.50	6.45	10.79	27.9
200	219.1	16	133	140	163.9	274	11.3

* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

Model

SJ-300N-L Butterfly Valve

The Shurjoint Model SJ-300N Butterfly Valve is a grooved-end shut-off valve equipped with a 10 position lever handle (SJ-300N-L) or worm gear operator (SJ-300N-W). The valve consists of an epoxy coated ductile iron body and EPDM or Nitrile (NBR) rubber encapsulated dual-seal disc.

The Model SJ-300N is rated up to + 200° F (+93°C) for general service use and is UL classified in accordance with NSF/ANSI 61 and NSF/ANSI 372 for potable water services up to temperature + 180° F (+82°C) with "E-pw" encapsulated disc. The end-to-end dimensions conform to MSS SP-67.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions					Operating Torque	Weight†
			A	B	C	D	E		
in	in	PSI	in	in	in	in	in	Lbs-in	Lbs
mm	mm	Bar	mm	mm	mm	mm	mm	Nm	Kgs
2	2.375	300	3.19	2.52	2.48	4.17	7.56	80	6.8
50	60.3	20	81	64	63	106	192	9	3.1
2½	2.875	300	3.82	3.11	2.68	4.37	7.56	120	8.2
65	73.0	20	97	79	68	111	192	14	3.7
76.1 mm	3.000	300	3.82	3.11	2.68	4.37	7.56	120	8.4
	76.1	20	97	79	68	111	192	14	3.8
3	3.500	300	3.82	3.62	2.99	4.96	7.56	160	9.0
80	88.9	20	97	92	76	126	192	18	4.1
4	4.500	300	4.57	4.65	3.50	5.32	10.24	450	11.4
100	114.3	20	116	118	89	135	260	51	5.2
139.7 mm	5.500	300	5.83	5.71	4.02	6.61	10.24	700	16.9
	139.7	20	148	145	102	168	260	79	7.7
5	5.563	300	5.83	5.71	4.02	6.61	10.24	700	16.9
125	141.3	20	148	145	102	168	260	79	7.7
165.1 mm	6.500	300	5.83	6.77	4.49	7.24	10.24	900	20.2
	165.1	20	148	172	114	184	260	102	9.2
6	6.625	300	5.83	6.77	4.49	7.24	10.24	900	20.2
150	168.3	20	148	172	114	184	260	102	9.2
200 JIS	8.516	300	5.24	8.74	5.51	8.19	10.24	1200	26.8
	216.3	20	133	222	140	208	260	136	12.2
8	8.625	300	5.24	8.74	5.51	8.19	10.24	1200	26.8
200	219.1	20	133	222	140	208	260	136	12.2
10	10.750	300	6.25	10.86	6.69	9.25	14.02	1800	48.4
250	273.0	20	159	276	170	235	356	204	22.0
12	12.750	300	6.53	12.87	8.07	10.24	14.02	2500	73.7
300	323.9	20	165	327	205	260	356	282	33.5

* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

† The weight includes the lever handle.

Notes: The torque values are based on liquid applications. For dry or non-lubricating applications add a 25% service factor to the above values.

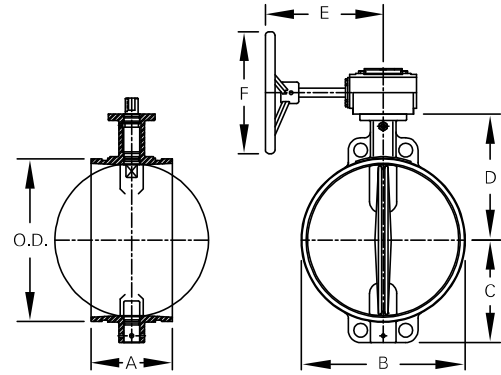
Model

SJ-300N-W Butterfly Valve

The Model SJ-300N can be equipped with a worm gear operator. The ISO 5211 mounting pad allows for the mounting of power actuators.



SJ-300N-W
w / worm gear



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions						Weight†
			A	B	C	D	E	F	
in	in	PSI	in	in	in	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	mm	mm	mm	Kgs
2	2.375	300	3.19	2.52	2.48	4.17	6.00	6.00	13.6
50	60.3	20	81	64	63	106	152	152	6.2
2½	2.875	300	3.82	3.11	2.68	4.37	6.00	6.00	14.3
65	73.0	20	97	79	68	111	152	152	6.5
76.1 mm	3.000	300	3.82	3.11	2.68	4.37	6.00	6.00	14.3
	76.1	20	97	79	68	111	152	152	6.5
3	3.500	300	3.82	3.62	2.99	4.96	6.00	6.00	16.0
80	88.9	20	97	92	76	126	152	152	7.3
4	4.500	300	4.57	4.65	3.50	5.32	6.00	6.00	19.1
100	114.3	20	116	118	89	135	152	152	8.7
139.7 mm	5.500	300	5.83	5.71	4.02	6.61	6.00	6.00	21.8
	139.7	20	148	145	102	168	152	152	9.9
5	5.563	300	5.83	5.71	4.02	6.61	6.00	6.00	21.8
125	141.3	20	148	145	102	168	152	152	9.9
165.1 mm	6.500	300	5.83	6.77	4.49	7.24	6.00	6.00	25.0
	165.1	20	148	172	114	184	152	152	11.4
6	6.625	300	5.83	6.77	4.49	7.24	6.00	6.00	25.3
150	168.3	20	148	172	114	184	152	152	11.5
200 JIS	8.516	300	5.24	8.74	5.51	8.19	6.00	6.00	31.9
	216.3	20	133	222	140	208	152	152	14.5
8	8.625	300	5.24	8.74	5.51	8.19	6.00	6.00	32.0
200	219.1	20	133	222	140	208	152	152	14.5
10	10.750	300	6.25	10.86	6.69	9.25	8.00	8.00	59.4
250	273.0	20	159	276	170	235	203	203	27.0
12	12.750	300	6.53	12.87	8.07	10.24	8.00	8.00	73.7
300	323.9	20	165	327	205	260	203	203	33.5
14	14.000	300	7.00	14.37	8.82	10.86	9.50	12.00	130.0
350	355.6	20	178	365	224	276	242	306	59.0
16	16.000	300	7.00	16.38	9.76	11.89	9.50	12.00	147.4
400	406.4	20	178	416	248	302	242	306	67.0
18	18.000	300	8.00	18.50	11.14	13.78	9.50	12.00	189.2
450	457.2	20	203	470	283	350	242	306	86.0
20	20.000	300	8.50	20.75	12.36	15.08	11.50	16.00	292.6
500	508.0	20	216	527	314	383	290	412	133.0
22	22.000	300	9.25	22.75	13.48	16.81	11.50	16.00	324.1
550	559.0	20	235	578	343	427	290	412	147.0
24	24.000	300	10.00	24.76	14.49	17.83	11.50	16.00	352.0
600	609.6	20	254	629	368	453	290	412	160.0

* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

† The weight includes the worm gear operator.

Model

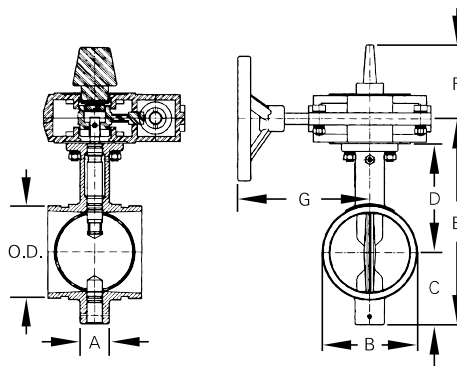
SJ-300F Butterfly Valve

The Shurjoint Model SJ-300F Butterfly Valve is a grooved-end shut-off valve equipped with a weatherproof worm gear operator and supervisory switch and wiring. The Model SJ-300F is cULus listed and FM approved for 300 psi (20 Bar, 2.0 MPa) WWP (water working pressure) service for indoor and outdoor use. Flow characteristics

satisfy UL Specification 1091 and FM Approval Standard 1112.

When the Model SJ-300F Butterfly Valve is used in a fire protection piping, installation shall conform to NFPA 13 and NFPA 72.

The valve consists of an epoxy powder coated ductile iron body and EPDM rubber encapsulated dual-seal disc.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions							Weight ⁽²⁾
			A ⁽¹⁾	B	C	D	E	F	G	
in	in	PSI	in	in	in	in	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	mm	mm	mm	mm	Kgs
2	2.375	300	3.19	2.56	2.48	4.17	7.87	3.62	6.42	16.70
50	60.3	20	81	65	63	106	200	92	163	7.60
2½	2.875	300	3.81	3.15	2.68	4.37	8.27	3.62	6.42	18.26
65	73.0	20	97	80	68	111	210	92	163	8.30
76.1 mm	3.000	300	3.81	3.15	2.68	4.37	8.27	3.62	6.42	18.41
	76.1	20	97	80	68	111	210	92	163	8.37
3	3.500	300	3.81	3.62	3.00	4.96	9.17	3.62	6.42	18.92
80	88.9	20	97	92	76	126	233	92	163	8.60
4	4.500	300	4.56	4.65	3.50	5.31	10.04	3.62	6.42	21.78
100	114.3	20	116	118	89	135	255	92	163	9.90
139.7 mm	5.500	300	5.81	5.71	4.00	6.61	11.85	3.62	6.42	27.08
	139.7	20	148	145	102	168	301	92	163	12.31
5	5.500	300	5.81	5.71	4.00	6.61	11.85	3.62	6.42	26.84
125	141.3	20	148	145	102	168	301	92	163	12.20
165.1 mm	6.500	300	5.81	6.77	4.50	7.25	12.95	3.62	6.42	30.38
	165.1	20	148	172	114	184	329	92	163	13.81
6	6.625	300	5.81	6.77	4.50	7.25	12.95	3.62	6.42	30.14
150	168.3	20	148	172	114	184	329	92	163	13.70
8	8.625	300	5.24	8.74	5.51	8.19	14.92	3.62	6.42	38.72
200	219.1	20	133	222	140	208	379	92	163	17.60
200 JIS	8.516	300	5.24	8.74	5.51	8.19	14.92	3.62	6.42	38.72
	216.3	20	133	222	140	208	379	92	163	17.60
10	10.750	300	6.25	10.87	6.69	9.25	17.17	3.62	6.42	59.27
250	273.0	20	159	276	170	235	436	92	163	26.88
12	12.750	300	6.50	12.87	8.07	10.24	19.53	3.62	6.42	74.97
300	323.9	20	165	327	205	260	496	92	163	34.00

(1) End to end dimensions conforms to MSS SP-67.

(2) The weight includes the worm gear operator.

* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

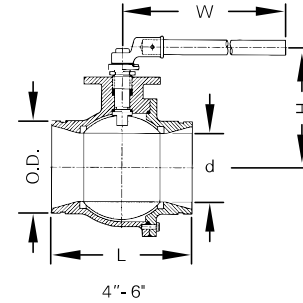
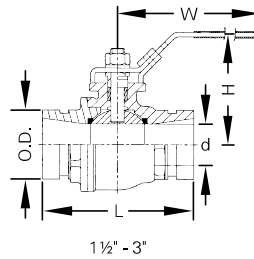
† For Fire Protection pressure rating, listing, and approval information, please refer to Data Sheet B-42 or visit SHURJOINT website, www.shurjoint.com for details or contact your SHURJOINT Representative.

Model

SJ-500L Ball Valve

The Shurjoint Model SJ-500L is a ductile iron, grooved-end, two-piece, regular port ball valve designed and tested in conformance with MSS SP-110 and SP-72. The lever handle is equipped with tamper

resistant locking holes. The SJ-500L is comprised of a ductile iron body and end cap, virgin TFE seats and chrome-plated carbon steel trim. Also available with stainless steel trim as an option.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Operating Torque‡	Dimensions				Weight
				L	H	W	d	
in	in	PSI	Lbs-in	in	in	in	in	Lbs
mm	mm	Bar	Nm	mm	mm	mm	mm	Kgs
1½	1,900	1000	62	5.12	3.39	7.00	1.25	3.9
40	48.3	69	7	130	86	178	32	1.8
2	2,375	1000	150	5.50	3.75	7.00	1.50	6.4
50	60.3	69	17	140	95	178	38	2.9
2½	2,875	1000	186	6.25	5.20	10.43	2.00	9.7
65	73.0	69	21	159	132	265	50	4.4
76.1 mm	3,000	1000	186	6.25	5.20	10.43	2.00	9.7
	76.1	69	21	159	132	265	50	4.4
3	3,500	1000	248	6.56	5.63	10.43	2.50	17.2
80	88.9	69	28	167	143	265	63	7.8
4	4,500	800	398	9.45	5.31	14.37	3.50	34.5
100	114.3	56	45	240	135	365	90	15.7
165.1 mm	6,500	800	531	10.15	8.70	23.60	4.92	90.2
	165.1	56	60	258	221	600	125	41.1
6	6,625	800	531	10.15	8.70	23.60	4.92	90.2
150	168.3	56	60	258	221	600	125	41.1

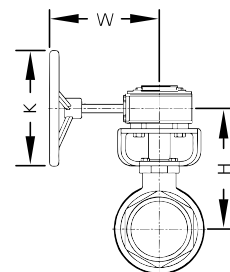
* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

‡ For the first opening or closing of the valve when the valve is not continuously operated, an additional torque of 2.0 – 2.5 times the listed operating torque is normally required.

Model

SJ-500W Ball Valve with Gear Operator

The Model SJ-500W can be equipped with a worm gear operator. The standard gear operator is supplied with a bracket and extension sleeve. The ISO 5211 mounting pad allows for the mounting of power actuators.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions			Weight
			K	H	W	
in	in	PSI	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	Kgs
2	2.375	1000	5.98	5.38	5.98	18
50	60.3	69	152	137	152	8
2½	2.875	1000	5.98	5.68	5.98	22
65	73.0	69	152	145	152	10
76.1 mm	3.000	1000	5.98	5.68	5.98	22
	76.1	69	152	145	152	10
3	3.500	1000	5.98	7.16	8.00	168
80	88.9	69	152	182	203	14
4	4.500	800	5.98	8.00	8.00	73
100	114.3	56	152	203	203	33
165.1 mm	6.500	800	12.00	10.89	9.53	123
	165.1	56	305	277	242	56
6	6.625	800	12.00	10.89	9.53	123
150	168.3	56	305	277	242	56

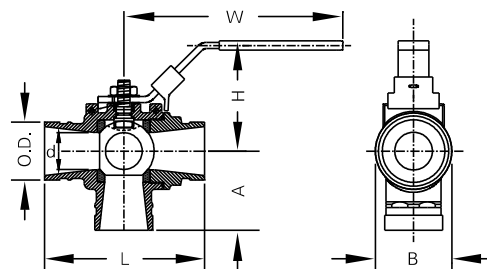
* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

Model

SJ-530 Three Port Ball Valve

The **Shurjoint** Model SJ-530 is a grooved-end three-port ball valve designed to divert media from bottom inlet to either of the two outlets ports. The valve port is a regular port size and the stem features a

blowout proof design to MSS SP-72 and API Standard 608. The valve body and trim materials are in compliance with NACE MR-01-75 requirements.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Operating Torque†	Dimensions						Weight
				L	H	W	d	A	B	
in	in	PSI	Lbs-in	in	in	in	in	in	in	Lbs
mm	mm	Bar	Nm	mm	mm	mm	mm	mm	mm	Kgs
2	2.375	600	150	6.55	4.32	8.96	1.50	3.25	3.13	7.89
50	60.3	42	17	167	110	228	38	83	79	3.58

* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

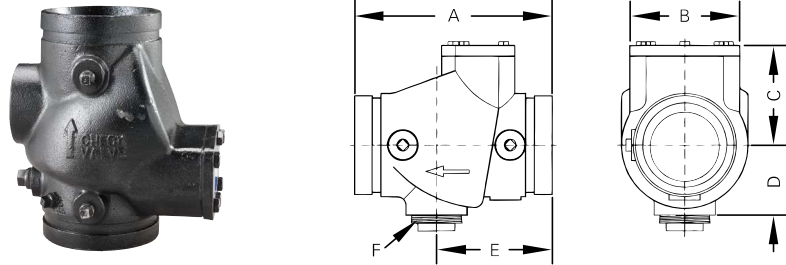
† For the first opening or closing of the valve when the valve is not continuously operated, an additional torque of 2.0 - 2.5 times the listed operating torque is normally required.

Model

SJ-900 Swing Check Valve

The **Shurjoint** Model SJ-900 Swing Check Valve is a grooved-end check valve featuring a spring-loaded wide-open clapper and a non-stick leak tight EPDM rubber seal. With

a rated working pressure of 300 psi (20 Bar), the valve can be installed in the horizontal or vertical position (upward flow only). Valves are tested to API 598.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions						Weight
			A	B	C	D	E	F	
in	in	PSI	in	in	in	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	mm	mm		Kgs
2½	2.875	300	7.48	4.50	3.75	2.50	4.00	1¼"	11.0
65	73.0	20	190	114	95	64	102	NPT	5.0
76.1 mm	3.000	300	7.48	4.50	3.75	2.50	4.00	1¼"	10.8
	76.1	20	190	114	95	64	102	BSP	4.9
3	3.500	300	7.00	4.50	3.75	2.50	4.00	1¼"	10.8
80	88.9	20	178	114	95	64	102	NPT	4.9
4	4.500	300	8.50	5.75	4.60	3.15	5.00	2"	18.3
100	114.3	20	216	146	117	80	127	NPT	8.3
139.7 mm	5.500	300	13.00	8.58	7.00	4.50	7.64	2"	51.7
	139.7	20	330	218	178	114	194	BSP	23.5
5	5.563	300	13.00	8.58	7.00	4.50	7.64	2"	51.7
125	141.3	20	330	218	178	114	194	NPT	23.5
165.1 mm	6.500	300	12.00	8.25	7.00	4.50	7.00	2"	51.7
	165.1	20	305	210	178	114	178	BSP	23.5
6	6.625	300	12.00	8.25	7.05	4.50	7.00	2"	51.7
150	168.3	20	305	210	178	114	178	NPT	23.5
8	8.625	300	14.37	10.47	8.54	5.50	10.00	2"	99.7
200	219.1	20	365	266	217	140	254	NPT	45.3
10	10.750	300	20.00	14.37	10.75	7.25	10.00	2"	217.8
250	273.0	20	508	365	273	184	254	NPT	99.0
12	12.750	300	24.00	15.51	12.87	8.54	12.00	2"	342.3
300	323.9	20	610	394	327	217	305	NPT	155.6
200 JIS	8.516	300	14.37	10.47	8.54	5.50	10.00	2"	99.7
	216.3	20	365	266	217	140	254	BSP	45.3
250 JIS	10.528	300	20.00	14.37	10.75	7.25	10.00	2"	216.7
	267.4	20	508	365	273	184	254	BSP	98.5
300 JIS	12.539	300	24.00	15.51	12.87	8.54	12.00	2"	342.3
	318.5	20	610	394	327	217	305	BSP	155.6

* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

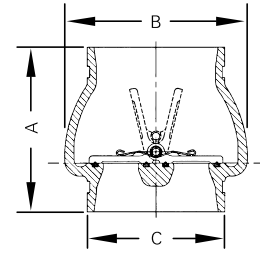
Model

SJ-915 Dual Disc Check Valve

The Shurjoint Model SJ-915 is a grooved-end dual-plate (or double-door) check valve designed to provide positive and silent protection against backflow in piping systems. The valve features a ductile iron body with an EPDM or Nitrile (NBR) resilient seat molded to the body and type 304 stainless steel discs loaded with type 313 stainless steel springs.



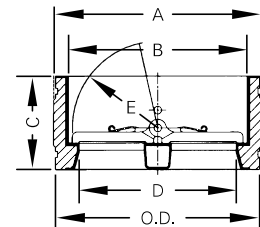
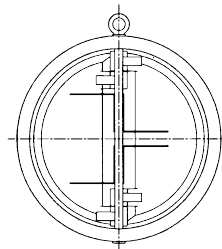
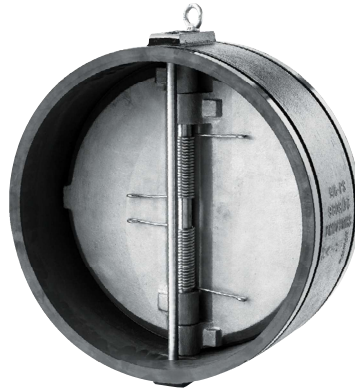
Size: 2½"~12"



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions†			Weight
			A	B	C	
in	in	PSI	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	Kgs
2½	2.875	300	4.92	4.33	2.87	5.0
65	73.0	20	125	110	73	2.3
3	3.500	300	5.31	4.92	3.50	5.5
80	88.9	20	135	125	89	2.5
4	4.500	300	5.39	5.98	4.50	8.4
100	114.3	20	137	152	114	3.8
6	6.625	300	6.00	8.03	6.62	18.6
150	168.3	20	152	204	168	7.6
8	8.625	300	6.73	10.08	8.62	27.3
200	219.1	20	171	256	219	12.4
10	10.750	300	7.80	12.09	10.75	45.5
250	273.0	20	198	307	273	20.7
12	12.750	300	8.19	14.25	12.75	62.2
300	323.9	20	208	362	324	28.3

* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

† Dimensions are subject to change.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions					Weight
			A	B	C	D	E	
in	in	PSI	in	in	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	mm	mm	Kgs
14	14.000	300	14.49	12.96	7.13	11.14	6.06	101
350	355.6	20	368	329	181	283	154	46
16	16.000	300	16.14	14.13	7.24	12.20	6.81	119
400	406.4	20	410	359	184	310	173	54
18	18.000	300	18.15	16.42	7.83	14.33	8.00	169
450	457.2	20	461	417	199	364	203	77
20	20.000	300	20.04	18.11	8.46	16.06	8.80	211
500	508.0	20	509	460	215	408	226	96
24	24.000	300	24.00	22.13	9.65	18.00	9.80	288
600	609.6	20	610	562	245	457	249	131

* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

Model

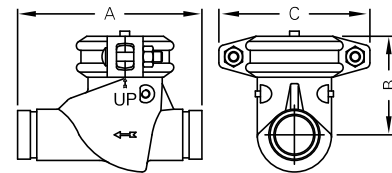
SJ-930 Horizontal Swing Check Valve

The **Shurjoint** Model SJ-930 horizontal swing check valves are supplied with grooved ends and are designed for general services including mining and oilfield applications. The SJ-930 features a bonnet cap which is drilled, tapped (½"

NPT), and plugged and secured using a **Shurjoint** XH-70EP* coupling. The 316 stainless steel clapper is supplied standard encapsulated with Nitrile. As an option we offer Fluoro-elastomer or Teflon encapsulations to meet your service

requirements.

* SJ-930 in size 4" is equipped with **Shurjoint** #7771 5" Rigid Coupling.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions			Weight
			A	B	C	
in	in	PSI	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	Kgs
2	2.375	1000	9.00	4.88	5.90	14.5
50	60.3	69	229	124	150	6.6
2½	2.875	1000	9.25	5.50	7.00	22.9
65	73.0	69	235	140	178	10.4
3	3.500	600	10.75	5.75	7.40	26.8
80	88.9	42	273	146	188	12.2
4	4.500	600	12.00	7.63	8.74	38.1
100	114.3	42	305	194	222	17.3
6	6.625	600	16.25	9.15	14.32	103.5
150	168.1	42	413	232.5	363.8	46.9

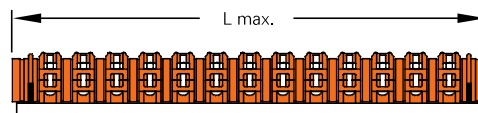
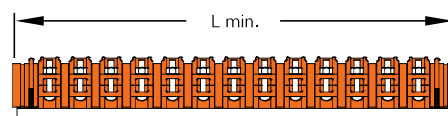
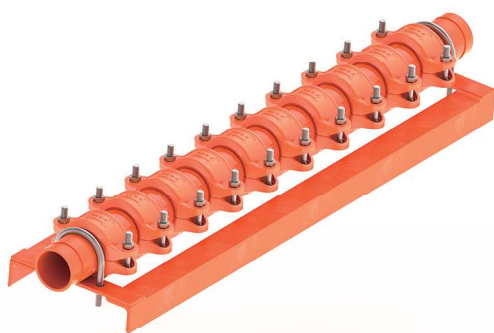
* Pressure ratings are based on cut-grooved sch. 40 or thicker pipe connected with Shurjoint XH-70EP extra heavy rigid couplings.

Model

651 Expansion Joint

The Model 651 Expansion Joint is a combination of couplings and specially machined pipe nipples that are joined in a series to accommodate the expansion and contraction of a piping system. Standard units are comprised of either Model 7705 or Model 7707 flexible couplings and cut grooved Sch. 40 pipe nipples. Customized

units are also available. The components are epoxy coated (RAL3000 red) for ease of use and longer life. The Model 651 is designed only for use on straight pipe runs and require independent supports and or guides to prevent deflection.



Nominal Size	Pipe O.D.	Couplings (Standard Units †)	Max. Working Pressure (CWP)*	Max. Movement	L - (ref.) §		Weight
					Min. (Compressed)	Max. (Expanded)	
in	in	Model No.	PSI	in	in	in	Lbs
mm	mm	No.	Bar	mm	mm	mm	Kgs
1½	1.900	7705 or 7707	350	2.91	28.25	31.18	24.2
40	48.3	10	24	74	718	792	11.0
2	2.375	7705 or 7707	350	3.11	28.25	31.38	27.0
50	60.3	10	24	79	718	797	12.2
2½	2.875	7705 or 7707	350	3.11	28.25	31.38	36.0
65	73.0	10	24	79	718	797	16.3
76.1 mm	3.000	7705 or 7707	350	3.11	28.25	31.38	36.0
	76.1	10	24	79	718	797	16.3
3	3.500	7705 or 7707	350	3.11	28.25	31.38	46.0
80	88.9	10	24	79	718	797	20.9
4	4.500	7705 or 7707	350	2.09	26.50	28.58	36.5
100	114.3	7	24	53	673	726	16.6
133.0 mm	5.250	7705 or 7707	350	2.09	26.50	28.58	72.0
	133.0	7	24	53	673	726	32.7
165.1 mm	6.500	7705 or 7707	350	2.09	26.26	28.35	58.1
	165.1	7	24	53	667	720	26.4
6	6.625	7705 or 7707	350	2.09	26.26	28.35	91.1
150	168.3	7	24	53	667	720	41.4
8	8.625	7705 or 7707	350	1.93	28.50	30.43	159.7
200	219.1	7	24	49	724	773	72.6
10	10.750	7705 or 7707	350	1.93	33.03	36.46	257.2
250	273.0	7	24	49	839	926	116.9
12	12.750	7705 or 7707	350	1.93	33.31	36.46	373.0
300	323.9	7	24	49	846	926	169.3

* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

† For Performance Data refer to Data Sheet C-01 for Model 7705 and Data Sheet C-02 for Model 7707.

Note: Available with greater or less movement by adding or eliminating couplings and nipple units.

§ L - (ref.) Length dimensions may vary slightly due to tolerances.

Model

725G Suction Diffuser

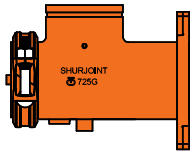
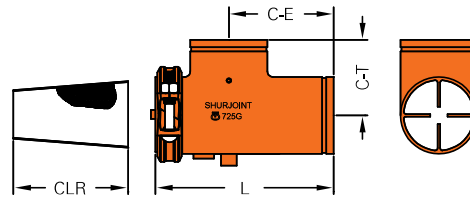
The Shurjoint Model 725G Suction Diffuser features a space saving design, ductile iron body and integral vanes that effectively reduce turbulence and provide optimum flow conditions at the inlet side of the pump.

The suction diffuser's inlet is supplied with a

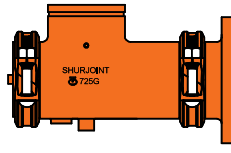
grooved end to AWWA C606-04. The 725G can be connected directly to grooved end pump or to a flanged end pump if used in combination with a Model 7041 Flange Adapter or a Model 7180 Universal Flange Adapter.

The Model 725G is supplied with a 304

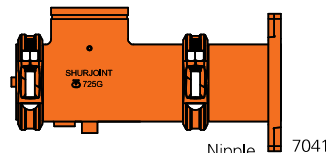
stainless steel running strainer and a disposable fine mesh screen to protect the pump during start-up operation.



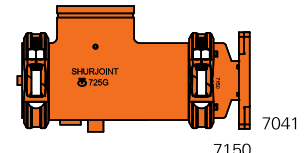
725G + 7041
For Flanged Connection



725G + 7180
With a Universal Flange



725G + Nipple + 7041
Extension



725G + 7150 + 7041
Reduction

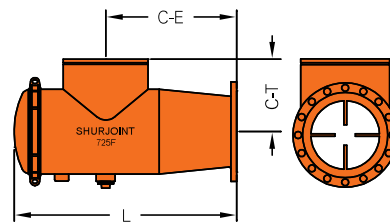
Nominal Size		Max. Working Pressure (CWP)*	Dimensions				Drain	Weight
System Side	Pump Side		L	C-E	CLR	C-T		
in	in	PSI	in	in	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	mm		Kgs
2	2	300	8.82	5.00	5.79	3.75	½	7.9
50	50	20	224	127	147	95	½	3.6
2½	2½	300	8.82	5.00	5.79	3.75	½	8.8
65	65	20	224	127	147	95	½	4.0
3	3	300	10.43	6.30	6.93	5.51	1	13.0
80	80	20	265	160	176	140	1	5.9
4	4	300	12.28	7.36	8.58	5.00	1	20.9
100	100	20	312	187	218	127	1	9.4
5	5	300	13.86	10.24	9.76	9.02	1	38.9
125	125	20	352	260	248	229	1	17.7
6	6	300	15.16	9.02	10.43	6.50	1	43.3
150	150	20	385	229	265	165	1	19.7
8	8	300	18.27	10.24	12.60	9.02	1¼	75.5
200	200	20	464	260	320	229	1¼	34.3
10	10	300	22.11	12.40	16.14	9.02	1¼	123.2
250	250	20	562	315	410	229	1¼	56.0
12	12	300	26.30	15.43	19.29	10.00	1¼	168.1
300	300	20	668	392	490	254	1¼	76.4

* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

Model

725F Suction Diffuser - Fabricated

The Shurjoint Model 725F Suction Diffusers in sizes 14" to 24" (350 mm to 600 mm) are fabricated from carbon steel pipe materials. Flange drilling is available to ANSI Class 150, PN 10/16, BS 10 Table E or JIS 10K.



Nominal Size		Max, Working Pressure (CWP)*	Dimensions				Flange Drilling□	Weight
Suction Side	Pump Side		L	C-E	C-T	Drain		
in	in	PSI	in	in	in	in		Lbs
mm	mm	Bar	mm	mm	mm			Kgs
14 350	10	300	35.00	24.00	14.00	1½' NPT	ANSI Class 150 • PN 10/16 • BS10 Table E or JIS 10K	420
	250	20	889	610	356			191
	12	300	35.00	24.00	14.00			444
	300	20	889	610	356			202
	14	300	38.00	26.00	16.00			532
	350	20	965	660	406			242
16 400	12	300	38.00	26.00	16.50	2" NPT		510
	300	20	965	660	419			232
	14	300	38.00	26.00	16.50			532
	350	20	965	660	419			242
	16	300	42.00	28.50	17.50			686
	400	20	1067	724	445			312
18 450	14	300	42.00	28.50	17.50	2" NPT		673
	350	20	1067	724	445			306
	16	300	42.00	28.50	17.50			686
	400	20	1067	724	445			312
	18	300	50.00	35.00	20.00			893
	450	20	1270	889	508			406
20 500	16	300	50.00	35.00	20.00	2" NPT		862
	400	20	1270	889	508			392
	18	300	50.00	35.00	20.00			893
	450	20	1270	889	508			406
	20	300	53.00	36.50	23.50			1195
	500	20	1346	927	597			543
24 600	18	300	54.00	37.00	20.50	2" NPT	1217	
	450	20	1372	940	521		553	
	20	300	54.00	37.00	20.50		1256	
	500	20	1372	940	521		571	
	22	300	63.00	43.50	23.88		1494	
	550	20	1600	1105	606		679	

* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

† When ordering, specify the desired flange drilling.

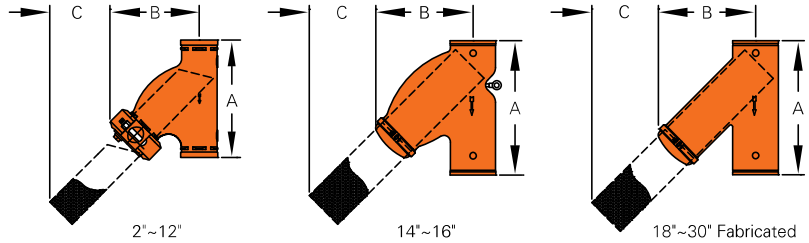
Model 726 Y-Strainer

The Shurjoint Model 726 Grooved-end Y-Strainers are designed to strain foreign matter and debris from piping systems and provide inexpensive protection for costly pumps, meters and other pipeline

components. The Model 726 features a low pressure drop, fast installation, easy maintenance and is suitable for either vertical or horizontal installation.

Standard Screen: 1/16" (1.6 mm) perforated

for 2" – 3" sizes and 1/8" (3.2 mm) perforated for 4" – 16". Other customized screen perforations are also available upon request.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)**	Dimensions			Drain Plug Size	Weight
			A	B	C		
in	in	PSI	in	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	mm	Kgs
2	2.375	300	9.75	7.13	4.56	½	9.3
50	60.3	20	248	181	116	15	4.2
2½	2.875	300	10.75	7.83	4.80	½	13.2
65	73.0	20	273	199	122	15	6.0
76.1 mm	3.000	300	10.75	7.83	4.80	½	13.2
	76.1	20	273	199	122	15	6.0
3	3.500	300	11.75	8.70	5.08	1	16.2
80	88.9	20	299	221	129	25	7.6
4	4.500	300	14.25	10.59	6.61	1	26.4
100	114.3	20	362	269	168	25	12.0
139.7 mm	5.500	300	16.50	13.00	10.16	1	48.4
	139.7	20	419	330	258	25	22.0
5	5.563	300	16.50	13.00	10.16	1	48.4
125	141.3	20	419	330	258	25	22.0
6	6.625	300	18.50	14.05	8.62	1	65.4
150	168.3	20	470	357	219	25	29.7
165.1 mm	6.500	300	18.50	14.05	8.62	1	65.0
	165.1	20	470	357	219	25	29.5
8	8.625	232	24.00	17.87	11.18	1½	121.0
200	219.1	16	610	454	284	40	55.0
10	10.750	175	27.00	20.55	12.60	1½	182.6
250	273.0	12	686	522	320	40	83.0
12	12.750	175	30.00	24.00	14.40	1½	277.2
300	323.9	12	762	609	366	40	126.0
200 JIS	8.516	232	24.00	17.87	11.18	1½	121.0
	216.3	16	610	454	284	40	55.0
250 JIS	10.528	175	27.00	20.55	12.60	1½	182.6
	267.4	12	686	522	320	40	83.0
300 JIS	12.539	175	30.00	24.00	14.40	1½	277.2
	318.5	12	762	609	366	40	126.0
14	14.000	175	40.00	29.92	18.90	1½	418.0
350	355.6	12	1016	760	480	32	190.0
16	16.000	175	42.00	30.60	19.00	1½	495.0
400	406.4	12	1067	777	483	32	225.0

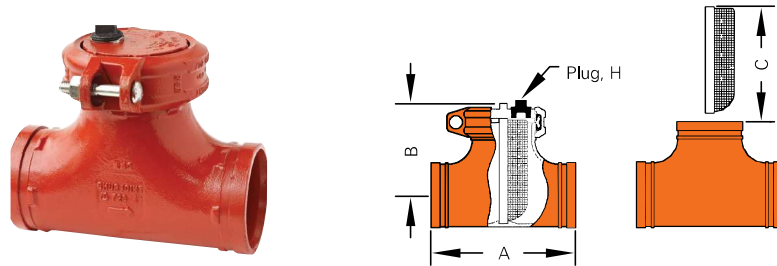
** Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

Model

728 T-Strainer

The **Shurjoint Model 728 Grooved-end T-Strainers** are designed to strain foreign matter and debris from piping systems and provide inexpensive protection for costly pumps, meters and other pipeline components. The Model 728 features a low pressure drop, fast installation, easy maintenance and is suitable for either

vertical or horizontal installation. The Model 728 installs with two **Shurjoint** couplings, and is rated up to 750 psi (52 Bar) depending upon the installed coupling's pressure rating and size. Standard Screen: Mesh 12 for sizes 2" – 3" and mesh 6 for sizes 4" – 14".



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions			H (Drain Plug)	Weight
			A	B	C		
in	in	PSI	in	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	mm	Kgs
2	2.375	750	6.54	4.72	4.92	½	6.6
50	60.3	52	166	120	125	15	3.0
2½	2.875	750	7.50	5.19	5.59	½	8.8
65	73.0	52	191	132	142	15	4.0
3	3.500	750	8.50	5.74	6.45	½	13.2
80	88.9	52	216	146	164	15	6.0
4	4.500	750	10.00	6.49	7.48	1	17.7
100	114.3	52	254	165	190	25	8.0
5**	5.563	750	11.00	7.48	8.58	1	28.6
125	141.3	52	279	190	218	25	13.0
6	6.625	700	13.00	8.34	10.23	1	44.0
150	168.3	48	330	212	260	25	20.0
8	8.625	600	15.50	9.96	12.60	1½	77.0
200	219.1	42	394	253	320	40	35.0
10	10.750	500	18.00	11.18	14.96	1½	114.6
250	273.0	35	457	284	380	40	52.0
12	12.750	400	20.00	12.16	16.92	1½	160.3
300	323.9	28	508	309	430	40	72.7
14	14.000	250	22.00	17.75	21.25	1½	186.3
350	355.6	17	559	451	540	40	84.5

* 1) Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

2) Working pressure is maximum based on Shurjoint Model Z07 access coupling and will be governed by couplings used for installation and related system components. Maximum differential pressure from inlet to outlet must not exceed 10 psi (0.69 Bar).

3) Working pressure is dependent upon the Shurjoint coupling used to join Model 728 to the piping system.

** Non-standard/stock items may require longer lead time.

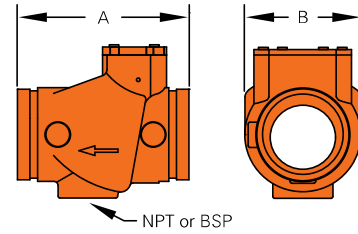


The T-strainer shall be cleaned periodically or before the differential pressure reaches 10 psi.

Model

RCV Riser Check Valve

The **Shurjoint** Model RCV is a grooved-end ductile iron body check valve, designed for use in the risers of wet type fire protection systems. The single clapper design features dual springs for non-slamming operation and the streamlined body provides for low friction loss. The valve can be installed in the vertical or horizontal position. Valves are tested to UL 312.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)**	Dimensions			Weight
			A	B	Drain (NPT or BSP)	
in	in	PSI	in	in	in	Lbs
mm	mm	Bar	mm	mm		Kgs
2½	2.875	300	7.48	4.50	1¼	10.96
65	73.0	20	190	114	1¼	4.98
76.1 mm	3.000	300	7.48	4.50	1¼	11.29
	76.1	20	190	114	1¼	5.13
3	3.500	300	7.00	4.50	1¼	10.98
80	88.9	20	178	114	1¼	4.99
4	4.500	300	8.50	5.75	2	18.68
100	114.3	20	216	146	2	8.49
139.7 mm	5.500	300	13.00	8.25	2	51.35
	139.7	20	330	210	2	23.34
5	5.563	300	13.00	8.25	2	52.36
125	141.3	20	330	210	2	23.80
165.1 mm	6.500	300	12.00	8.25	2	50.23
	165.1	20	305	210	2	22.83
6	6.625	300	12.00	8.25	2	50.82
150	168.3	20	305	210	2	23.10

* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

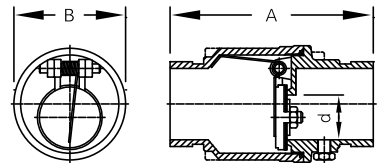
† For Fire Protection pressure rating, listing, and approval information, please refer to Data Sheet B-42 or visit SHURJOINT website, www.shurjoint.com for details or contact your SHURJOINT Representative.

Model

BH-22C Brass Swing Check Valve

Grooved-end, Spring Loaded Clapper

The **Shurjoint** Model BH-22C swing check valve is designed for grooved inlet and outlet connections, featuring a brass body with spring-loaded clapper with rubber seat, rated 250 psi (17 bar) working water pressure and suitable for installation in the horizontal or vertical position (upward flow only). The valve body, end piece and clapper are made of brass castings per ASTM A-584 copper alloy C85700.



Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions			Weight
			A	B	d	
in	in	PSI	in	in	in	Lbs
mm	mm	Bar	mm	mm	mm	Kgs
2	2.375	250	5.70	3.25	1.38	3.5
50	60.3	17	145	83	35	1.6
2½	2.875	250	6.50	4.21	1.88	6.8
65	73.0	17	165	107	48	3.1
3	3.500	250	7.64	4.88	2.44	9.9
80	88.9	17	194	124	62	4.5
4	4.500	250	7.95	5.59	3.31	11.9
100	114.3	17	202	142	84	5.4

*Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.