

MODEL SJ-500L BALL VALVE WITH LEVER HANDLE

The 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.

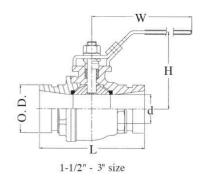


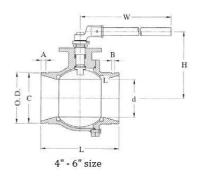
MODEL SJ-500W BALL VALVE WITH GEAR OPERATOR

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.



MODEL SJ-500L BALL VALVE WITH LEVER HANDLE





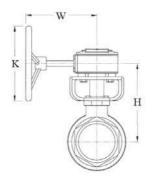
Model SJ-500L Ball Valve with Lever Handle											
Nominal	Pipe	Max. Working Pressure	Operating	Dimensions							
Size	O.D.	(CWP)*	Torque#	<u>-</u>	H	W	d	A	В	<u> </u>	Weight
in	in	Psi	Lbs-in	in	in	in	in	in	in	in	Lbs
mm	mm	Bar	Nm	mm	mm	mm	mm	mm	mm	mm	Kgs
1½	1.900	1000	62	5.12	3.39	7.00	1.25	0.625	0.312	1.775	3.9
40	48.3	69	7	130	86	178	32	15.9	7.9	45.1	1.8
2	2.375	1000	150	5.50	3.75	7.00	1.50	0.625	0.312	2.250	6.4
50	60.3	69	17	140	95	178	38	15.9	7.9	57.2	2.9
2½	2.875	1000	186	6.25	5.20	10.43	2.00	0.625	0.312	2.720	9.7
65	73.0	69	21	159	132	265	50	15.9	7.9	69.1	4.4
70.4	3.000	1000	186	6.25	5.20	10.43	2.00	0.625	0.312	2.845	9.7
76.1 mm	76.1	69	21	159	132	265	50	15.9	7.9	72.3	4.4
3	3.500	1000	248	6.56	5.63	10.43	2.50	0.625	0.312	3.344	17.2
80	88.9	69	28	167	143	265	63	15.9	7.9	84.9	7.8
4	4.500	800	398	9.45	5.31	14.37	3.50	0.625	0.312	4.334	34.5
100	114.3	56	45	240	135	365	90	15.9	7.9	110.0	15.7
165.1 mm	6.500	800	531	10.15	8.70	23.60	4.92	0.625	0.374	6.453	90.2
	165.1	56	60	258	221	600	125	15.9	9.5	163.9	41.1
6	6.625	800	531	10.15	8.70	23.60	4.92	0.625	0.374	6.453	90.2
150	168.3	56	60	258	221	600	125	15.9	9.5	163.9	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.

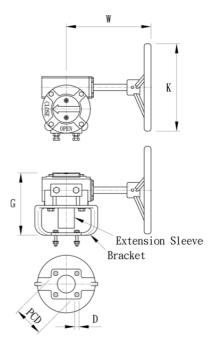


MODEL SJ-500W BALL VALVE WITH GEAR OPERATOR



	Mod	el SJ-500W Ball Val	ve with G	ear Operato	or	
Nominal	Pipe	Max. Working Pressure		Dimensions		
Size	o.D.	(CWP)*	K	Н	W	Weight
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
21/2	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 mm	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
405.4	6.500	800	12.00	10.89	9.53	123
165.1 mm	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-500W Gear Operator and Bracket							
Nominal	2						
Size	W	K	G	PCD	D	Weight	
in	in	in	in	in	in	Lbs	
mm	mm	mm	mm	mm	mm	Kgs	
2	5.98	5.98	5.35	1.97	0.31	11	
50	152	152	136	50	8	5	
21/2	5.98	5.98	5.35	1.97	0.31	11	
65	152	152	136	50	8	5	
3	8.00	5.98	5.55	2.75	0.40	15	
80	203	152	141	70	10	7	
4	8.00	5.98	5.55	2.75	0.40	15	
100	203	152	141	70	10	7	
6	9.53	12.00	6.55	5.50	0.55	44	
150	242	305	166	140	14	20	



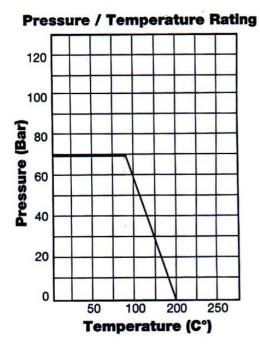
Flow Data - C_v Values

Values for flow of water at +60°F (+16°C).

$$C_r = \frac{Q}{\sqrt{\Delta}P}$$

Where: $C_V = \text{Flow coefficient}$ Q = Flow (GPM) $\Delta P = \text{Pressure drop (psi)}$

Model SJ-500 Ball Valve						
Valve Size	Actual O.D.	C _∨ Value				
in mm	in mm					
1½ 40	1.900 48.3	130				
2 50	2.375 60.3	180				
2½ 65	2.875 73.0	320				
76.1 mm	3.000 76.1	320				
3 80	3.500 88.9	600				
4 100	4.500 114.3	1020				
165.1 mm	6.500 165.1	3300				
6 150	6.625 168.3	3300				



MATERIAL SPECIFICATIONS

Body and End Cap:

Ductile Iron to ASTM A536, Gr. 65-45-12 and or ASTM A395, Gr. 65-45-15.

Stem:

Carbon steel, Nickel plated

☐ Type 304 stainless steel.

Ball:

Type 304 stainless steel.

· Seats:

Virgin TFE.

Body Seal:

R-PTFE

• O-Ring:

Fluoro-elastomer

• Lever Handle:

Carbon steel, zinc plated with plastic grip

☐ Type 304 stainless steel

Gear Operator:

Manual with handwheel, cast iron body.

· Bracket:

Ductile Iron to ASTM A536, Gr. 65-45-12 and or ASTM A395, Gr. 65-45-15, min. tensile strength 65,000 psi (448 MPa).

• Extension Sleeve:

Ductile Iron to ASTM A536, Gr. 65-45-12 and or ASTM A395, Gr. 65-45-15, min. tensile strength 65,000 psi (448 MPa).

General Notes:

- Maximum Working Pressure (CWP) listed is the maximum cold water pressure for general piping services tested to ASTM F1476 and or AWWA
 C606 methods. Figures listed are based on roll-or cut-grooved standard wall carbon steel pipe. For other pipe schedules or pipe materials,
 contact Shurjoint for additional information.
- Field Joint Test: For one time only the system may be tested hydrostatically at 1½ times the maximum working pressure listed (AWWA C606 5.2.3).
- Warning: Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- The Limited Warranty applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- Shurjoint reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.



Shurjoint product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact **Shurjoint** Technical Service. **Shurjoint** reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligations to make such changes and modifications on **Shurjoint** products previously subsequently sold.