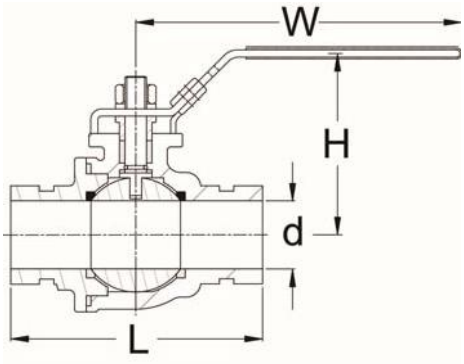
MODEL SJ-600L BALL VALVE WITH LEVER HANDLE

The Model SJ-600L is a stainless steel, grooved-end, two-piece, full 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-600L is comprised of a stainless steel body and end cap, virgin TFE seats and stainless steel trim. The valve is supplied standard in CF8M (316).

MODEL SJ-600W BALL VALVE WITH GEAR OPERATOR

The Model SJ-600 can be also supplied with a worm gear operator.
The standard gear operator is supplied with a bracket and extension sleeve.
The ISO 5211 mounting pad allows for mounting of other power actuators.

MODEL SJ-600L BALL VALVE WITH LEVER HANDLE



Model SJ-600L Ball Valve with Lever Handle

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Operating Torque‡	Dimensions L	H	W	d	Weight^
in *mm*	in *mm*	PSI *Bar*	Lbs-in *Nm*	in *mm*	in *mm*	in *mm*	in *mm*	Lbs *Kgs*
1½ *40*	1.900 *48.3*	600 *42*	265 *30*	5.50 *140*	3.70 *94*	7.60 *193*	1.50 *38*	6.6 *3.0*
2 *50*	2.375 *60.3*	600 *42*	354 *40*	6.15 *156*	4.13 *105*	7.60 *193*	1.97 *50*	8.8 *4.0*
2½ *65*	2.875 *73.0*	600 *42*	442 *50*	7.09 *180*	4.33 *110*	9.84 *250*	2.56 *65*	15.4 *7.0*
76.1 mm	3.000 *76.1*	600 *42*	442 *50*	7.09 *180*	4.33 *110*	9.84 *250*	2.56 *65*	15.4 *7.0*
3 *80*	3.500 *88.9*	600 *42*	619 *70*	8.42 *214*	6.00 *152*	9.84 *250*	3.07 *78*	20.7 *9.4*
4 *100*	4.500 *114.3*	600 *42*	973 *110*	9.45 *240*	6.57 *167*	11.42 *290*	3.94 *100*	55.0 *25.0*

* Working pressure is for connection with cut- or roll-grooved schedule Sch. 40S 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.
^ The weight includes the lever handle.

Flow Data – C_v Values

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

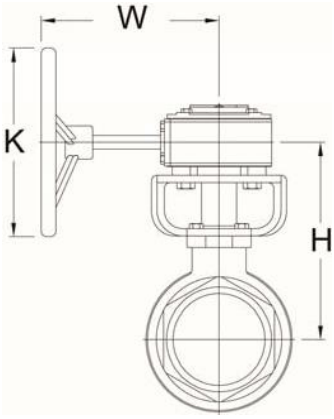
$$Cv = \frac{Q}{\sqrt{\Delta P}}$$

Where: C_v = Flow coefficient
Q = Flow (GPM)
ΔP = Pressure drop (psi)

Model SJ-600 Ball Valve

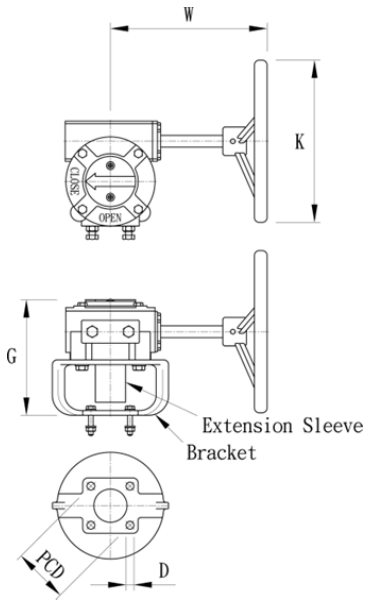
Valve Size	Actual O.D.	C_v Value	Valve Size	Actual O.D.	Cv. Value
in *mm*	in *mm*		in *mm*	in *mm*	
1½ *40*	1.900 *48.3*	270	76.1 mm	3.000 *76.1*	800
2 *50*	2.375 *60.3*	500	3 *80*	3.500 *88.9*	1200
2½ *65*	2.875 *73.0*	800	4 *100*	4.500 *114.3*	2150

MODEL SJ-600W BALL VALVE WITH GEAR OPERATOR



Model SJ-600W Ball Valve with Gear Operator

Nominal Size	Pipe O.D.	K	H	W	Weight
in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	Lbs *Kgs*
2 *50*	2.375 *60.3*	5.98 *152*	5.38 *137*	8.00 *203*	17.82 *8.10*
2½ *65*	2.875 *73.0*	5.98 *152*	5.68 *145*	8.00 *203*	24.42 *11.10*
76.1 mm	3.000 *76.1*	5.98 *152*	5.68 *145*	8.00 *203*	24.42 *11.10*
3 *80*	3.500 *88.9*	5.98 *152*	7.16 *182*	8.00 *203*	29.70 *13.50*
4 *100*	4.500 *114.3*	5.98 *152*	8.00 *203*	8.00 *203*	63.80 *29.0*



Model SJ-600W Gear Operator and Bracket

Nominal Size	W	K	G	PCD	D	Weight
in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	in *mm*	Lbs *Kgs*
1½ *40*	8 *203*	5.98 *152*	5.35 *136*	1.64 *42*	0.31 *8*	11 *5*
2 *50*	8 *203*	5.98 *152*	5.35 *136*	1.97 *50*	0.31 *8*	11 *5*
2½ *65*	8 *203*	5.98 *152*	5.35 *136*	1.97 *50*	0.31 *8*	11 *5*
3 *80*	8 *203*	5.98 *152*	5.55 *141*	2.75 *70*	0.40 *10*	15 *7*
4 *100*	8 *203*	5.98 *152*	5.55 *141*	2.75 *70*	0.40 *10*	15 *7*

MATERIAL SPECIFICATIONS

- **Body and End Cap:**
  Type 316 stainless steel.
- **Stem:**
  Type 316 stainless steel.
- **Ball:**
  Type 316 stainless steel.
- **Seats:**
  Virgin TFE.
- **Seals:**
  R-PTFE.
- **Lever Handle:**
  Type 304 stainless steel.
- **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 stainless 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.
- ***Shurjoint*** reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.