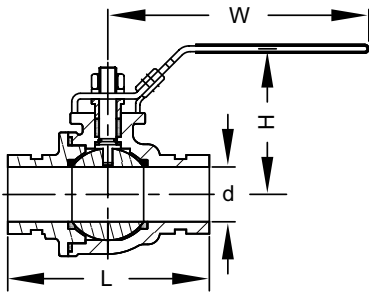




|                 |  |
|-----------------|--|
| Job Name:       |  |
| Job Location:   |  |
| Engineer:       |  |
| Contractor:     |  |
| Tag:            |  |
| PO#:            |  |
| Rep:            |  |
| Wholesale Dist: |  |

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).

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.



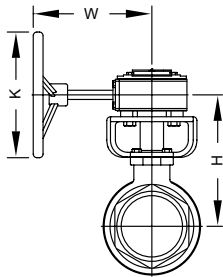
### DIMENSIONS - SJ-600L

| NOMINAL SIZE | PIPE O.D. | MAX. WORKING PRESSURE (CWP)* | OPERATING TORQUE † | DIMENSIONS |      |       |      | WEIGHT <sup>^</sup> |
|--------------|-----------|------------------------------|--------------------|------------|------|-------|------|---------------------|
|              |           |                              |                    | L          | H    | W     | D    |                     |
| 1-1/2        | 1.900     | 600                          | 265                | 5.50       | 3.70 | 7.60  | 1.50 | 6.6                 |
| 40           | 48.3      | 42                           | 30                 | 140        | 94   | 193   | 38   | 3.0                 |
| 2            | 2.375     | 600                          | 354                | 6.15       | 4.13 | 7.60  | 1.97 | 8.8                 |
| 50           | 60.3      | 42                           | 40                 | 156        | 105  | 193   | 50   | 4.0                 |
| 2-1/2        | 2.875     | 600                          | 442                | 7.09       | 4.33 | 9.84  | 2.56 | 15.4                |
| 65           | 73.0      | 42                           | 50                 | 180        | 110  | 250   | 65   | 7.0                 |
| 76.1 mm      | 3.000     | 600                          | 442                | 7.09       | 4.33 | 9.84  | 2.56 | 15.4                |
|              | 76.1      | 42                           | 50                 | 180        | 110  | 250   | 65   | 7.0                 |
| 3            | 3.500     | 600                          | 619                | 8.42       | 6.00 | 9.84  | 3.07 | 20.7                |
| 80           | 88.9      | 42                           | 70                 | 214        | 152  | 250   | 78   | 9.4                 |
| 4            | 4.500     | 600                          | 973                | 9.45       | 6.57 | 11.42 | 3.94 | 55.0                |
| 100          | 114.3     | 42                           | 110                | 240        | 167  | 290   | 100  | 25.0                |

\* Working pressure is for connection with cut- or roll-grooved schedule Sch. 405 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.

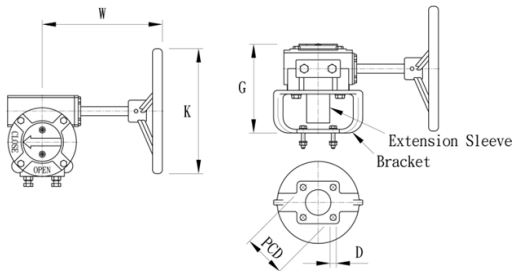
^ The weight includes the lever handle.



### DIMENSIONS - SJ-600W GEAR OPERATOR

| NOMINAL SIZE | PIPE O.D. | DIMENSIONS |      |      | WEIGHT |
|--------------|-----------|------------|------|------|--------|
|              |           | K          | H    | W    |        |
| 2            | 2.375     | 5.98       | 5.38 | 8.00 | 17.82  |
| 50           | 60.3      | 152        | 137  | 203  | 8.10   |
| 2-1/2        | 2.875     | 5.98       | 5.68 | 8.00 | 24.42  |
| 65           | 73.0      | 152        | 145  | 203  | 11.10  |
| 76.1 mm      | 3.000     | 5.98       | 5.68 | 8.00 | 24.42  |
|              | 76.1      | 152        | 145  | 203  | 11.10  |
| 3            | 3.500     | 5.98       | 7.16 | 8.00 | 29.70  |
| 80           | 88.9      | 152        | 182  | 203  | 13.50  |
| 4            | 4.500     | 5.98       | 8.00 | 8.00 | 63.80  |
| 100          | 114.3     | 152        | 203  | 203  | 29.0   |

### DIMENSIONS - SJ-600W GEAR OPERATOR AND BRACKET



| NOMINAL SIZE | DIMENSIONS |      |      |      |      | WEIGHT |
|--------------|------------|------|------|------|------|--------|
|              | W          | K    | G    | PCD  | D    |        |
| 1-1/2        | 8          | 5.98 | 5.35 | 1.64 | 0.31 | 11     |
| 40           | 203        | 152  | 136  | 42   | 8    | 5      |
| 2            | 8          | 5.98 | 5.35 | 1.97 | 0.31 | 11     |
| 50           | 203        | 152  | 136  | 50   | 8    | 5      |
| 2-1/2        | 8          | 5.98 | 5.35 | 1.97 | 0.31 | 11     |
| 65           | 203        | 152  | 136  | 50   | 8    | 5      |
| 3            | 8          | 5.98 | 5.55 | 2.75 | 0.4  | 15     |
| 80           | 203        | 152  | 141  | 70   | 10   | 7      |
| 4            | 8          | 5.98 | 5.55 | 2.75 | 0.4  | 15     |
| 100          | 203        | 152  | 141  | 70   | 10   | 7      |

**FLOW DATA**

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

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

Where:

Cv = Flow coefficient

Q = Flow (GPM)

ΔP = Pressure drop (psi)

**Cv VALUES**

| VALVE SIZE | ACTUAL O.D. | CV VALUES |
|------------|-------------|-----------|
| in         | in          |           |
| mm         | mm          |           |
| 1-1/2      | 1.9         | 270       |
| 40         | 48.3        |           |
| 2          | 2.375       | 500       |
| 50         | 60.3        |           |
| 2-1/2      | 2.875       | 800       |
| 65         | 73          |           |
| 76.1 mm    | 3           | 800       |
|            | 76.1        |           |
| 3          | 3.5         | 1200      |
| 80         | 88.9        |           |
| 4          | 4.5         | 2150      |
| 100        | 114.3       |           |

**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 carbon steel pipe. For other pipe schedules or pipe materials, contact Shurjoint for additional information.
- Max. End Load is calculated based on the maximum working pressure (CWP).
- Field Joint Test: For one time only the system may be tested hydrostatically at 1.5 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.
- Products manufactured by Shurjoint are warranted solely to the original Buyer for eighteen months (18) months from date of shipment or one (1) year from date of installation, whichever is sooner.
- Shurjoint reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.