

Series 11 IOM

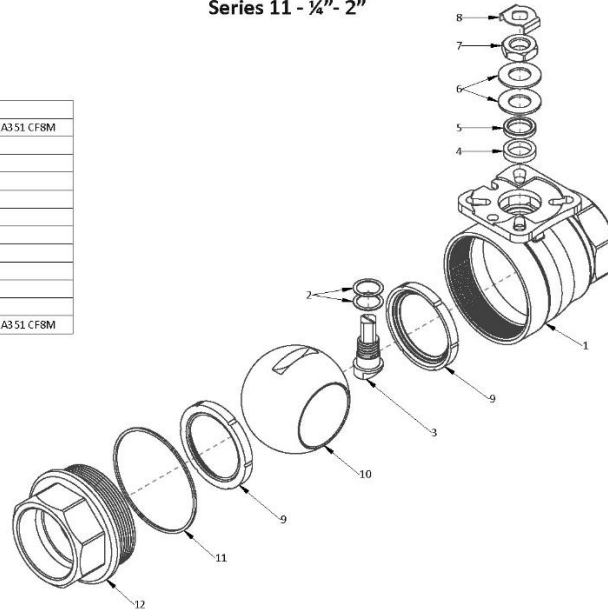
**INSTALLATION, OPERATION
AND MAINTENANCE FOR
SHARPE® SERIES 11
DIRECT MOUNT TWO-PIECE
BALL VALVE**



Sharpe® Series 11

Series 11 - ½"- 2"

No.	Part Name	Qty	Material
1	Body	1	316 Stainless Steel, ASTM A351 CF8M
2	Thrust Bearing	2	PTFE
3	Stem	1	316 Stainless Steel
4	Stem Seal	1	PTFE
5	Gland Packing	1	300 Series Stainless Steel
6	Belleville Washer	2	300 Series Stainless Steel
7	Packing Nut	1	300 Series Stainless Steel
8	Lock Tab	1	300 Series Stainless Steel
9	Seat	2	TFM
10	Ball	1	316 Stainless Steel
11	Body Seal	1	PTFE
12	End Piece	1	316 Stainless Steel, ASTM A351 CF8M



INSTALLATION

Sharpe® ball valves have been designed and engineered to provide long lasting and trouble-free service when used in accordance with the instructions and specifications herein.

• General

- The following instructions only refer to Sharpe® standard valves as described in this document.
- Keep the protective covering in place until the moment of installation. Valve performance depends upon the prevention of damage to the ball surface. Upon removal of the covers, make sure that the valve is completely open and free of obstructions.
- When shipped, valves may contain a silicon based lubricant which aids in the assembly of the valve.

It is the responsibility of the customer to determine the suitability of Sharpe® valves products in their particular application.
Disclaimer: Supplier shall not be liable or responsible for omissions or errors in its bulletin.

• Safety Precautions

- Before removing valve from pipeline: media flowing through a valve may be corrosive, toxic, flammable, or of a contaminant nature. Where there is evidence of harmful fluids having flowed through the valve, the utmost care must be taken. It is suggested that at least the following safety precautions should be taken when handling the valves. More precautions may be required, refer to the media's Safety Data Sheet for additional precautions.
 1. Always wear eye shields
 2. Always wear gloves and overalls
 3. Wear protective footwear
 4. Wear protective headgear
 5. Ensure that running water is easily available
 6. Have suitable fire extinguisher ready if the media is flammable
- By checking line gauges, ensure that no pressure exists on either the upstream or the downstream sides of the valve.
- Ensure that any media is released by operating the valve slowly to the half-open position.
- Ideally, the valve should be decontaminated when the ball is in the half-open position and then leave the valve in the fully open position.

OPERATION

- Sharpe® valves provide tight shut off when used under normal conditions and in accordance with Sharpe® valves published pressure/temperature charts.
- If these valves are used in a partially open (throttled) position, seat life will be reduced and is not recommended.
- Any media which might solidify, crystallize or polymerize should not be allowed to stand in the ball valve cavities unless regular maintenance is provided.

• Remote Operation

- Valves are designed to be automated for remote operation, instrument control, etc. A range of Sharpe® valves pneumatic and electric actuators are available.
 - Standard valves do not come with a lever handle.
- Operation will be in accordance with Sharpe® valves installation, operation and maintenance instructions for the relevant actuator.

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INSTALLATION

- Sharpe® Valves cannot anticipate all of the situations a user may encounter while installing and using the valve.
 - The user must know and follow all applicable industry specifications and government regulations for the safe installation and use of these valves.
 - Only qualified personnel or technicians who are trained for maintenance work and have read the instructions are to install the valve.
 - Misapplication of the product may result in injuries or property damage of which Sharpe® is not liable for.
- Before installing the valves, the pipes must be flushed clean of dirt, burrs and welding residues, or you will damage the seats and ball surface.
 - These valves should be installed using good pipe fitting practices.
 - It is recommended to use a suitable joint compound or PTFE tape on pipe threads for ease of fit-up.

MAINTENANCE

• General

- Sharpe® valves are designed to have a long, trouble-free life.
- The following checks should, however, help to extend valve life or reduce plant problems.

• Stem Seal Adjustment:

- If leakage is evident from the stem packing area, tighten the packing nut $\frac{1}{8}$ turn. If the leakage persists, repeat tightening. If leakage cannot be corrected by tightening the gland, replacement of the valve will be necessary.

• Leakage at Pipeline Joint

- Test for tightness of screwed thread. If loose, tighten with standard wrench - excessive force will only damage the connection. Normal jointing materials should be used in the correct quantity.

• In-Line Leakage

- Check that the valve is fully closed. If it is, leakage may be due to a damaged seat or ball sealing surface and it will be necessary replace the valve.

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