

Series OP20 IOM

REVISION: A
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INSTALLATION, OPERATION AND MAINTENANCE FOR SHARPE® SERIES OP20 OIL PATCH SWING CHECK VALVES



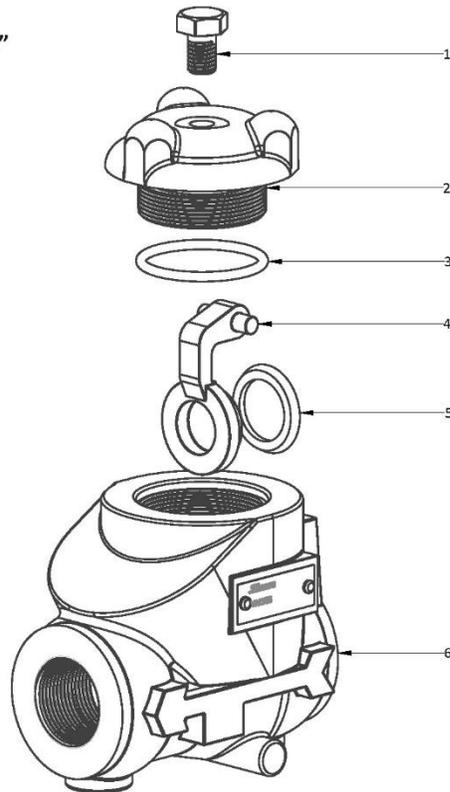
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It is the responsibility of the customer to determine the suitability of Sharpe® valves products in their particular application.
Disclaimer: Supplier shall not be liable or responsible for omissions or errors in its bulletin

Sharpe® OP20 Oil Patch Swing Check Valve

Series OP20 - 1"- 4"



No.	Part	Qty	Material
1	Bonnet Plug	1	Carbon Steel
2	Bonnet	1	WCB or Ductile Iron
3	O-Ring	1	Viton
4	Seat	1	Viton
5	Disc	1	316 Stainless Steel
6	Body	1	WCB or Ductile Iron

INSTALLATION

Sharpe® check 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 sealing surfaces. Upon removal of the cover, 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.

• 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.
- Ideally, the valve should be decontaminated.

OPERATION

- Sharpe® valves provide tight shut off when used under normal conditions and in accordance with Sharpe® valves published pressure/temperature charts.
- Any media which might solidify, crystallize or polymerize should not be allowed to stand in the valve cavities unless regular maintenance is provided.

• Operation

- Sharpe® check valves are automatically opened or closed by fluid flow; allowing flow in the preferred direction and preventing flow in the reverse direction.

STORAGE

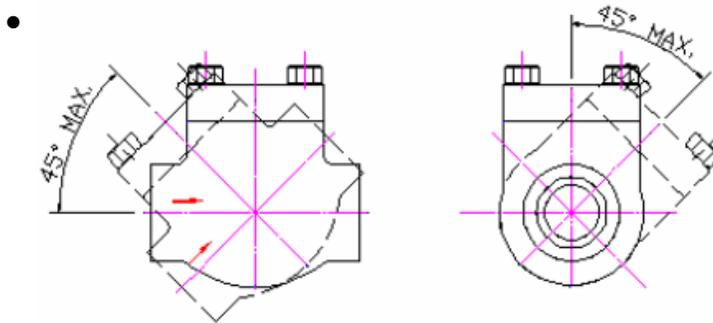
- Valves shall be stored in a dry warehouse, with end covers installed.
- For long term storage, valves shall be checked periodically, and cleaned to remove dirt and foreign material. Special care shall be taken for the cleanliness of seat surfaces, to prevent damage to the seat and disc

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 sealing surfaces.
 - Check the valve identification tag carefully to verify that it is the correct valve for the application.
 - Check inside passage and seal surface of the valve. Clean as necessary to remove all dirt and foreign material.
- When installing the valve, make sure that the flow arrow on the valve points in the required direction of flow.

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- These valves should be installed using good pipe fitting practices.
- All check valves should be installed at least ten pipe diameters away from upstream pumps, elbows, fittings or equipment.
- Check valves should be installed with bonnet up and angle of incline should be no more than 45° from horizontal. Also the roll angle of the valves bonnet should be no more than 45° from side to side.



- - For vertical installation of the check valve, the flow must be in an upward direction so the disc seats when flow is reduced. The upstream pressure must exceed the cracking and downstream back pressure or else the swing arm and disc will not open. Low flows can cause disc chatter, wear of seat and disc, and erosion.
 - 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.

• 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 closing. If it is, leakage may be due to a damaged seat or disc sealing surface and it will be necessary to replace the valve.

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