

JARECKI VALVES INSTALLATION AND MAINTENANCE MANUAL

SV SERIES FLANGED UNI-DIRECTIONAL METAL SEATED BALL VALVE LEVER OPERATED WITH GRAPHITE SEALS

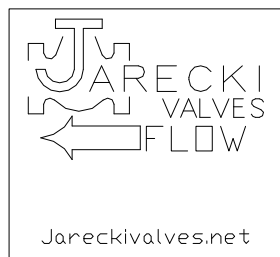
INSTALLATION

Before Installation, the piping system should be cleaned and flushed, to prevent damage to the seats. Next, ensure that the valve has not been damaged during shipment. All flange protectors and shipping materials must be removed to allow a thorough inspection. The valve is shipped in the half open position.

The limiting stops are factory set. Operate the valve to ensure that the valve has not been damaged in shipment. There should be no hesitation or jerkiness to the stem movement.

The valve may be installed into the piping system with the valve stem oriented either vertically or horizontally depending on the piping arrangement. If the valve is installed horizontally, it is strongly recommended that the stem (9) be pointing upwards and not sideways. When hoisting the valve into position, **never pick up the valve by the lever or actuator assembly.**

CAUTION: Pressure orientation is important. The valve must be installed with the flow arrow on the side of the body pointing towards the downstream side.



OPERATION

The Jarecki SV Series Ball Valves are primarily used as shut-off valves. If the valves are to be used for control, it is strongly recommended that the factory be contacted.

Turn the lever clockwise to close and counterclockwise to open. If the lever is perpendicular to the flow, the valve is closed. There are stops set on the valve for both the open and closed positions.

MAINTENANCE

This valve does not require lubrication or maintenance. If a leak does occur at the body and tailpiece connection, the valve will need to be repaired.

No scheduled maintenance on the stem packing is required, however, regular inspection on the gland bolts is recommended. During maintenance, the gland bolting must be tightened uniformly to eliminate any extreme rocking of the compression plate. Care must be taken not to over torque the gland bolts. The gland bolting should be tightened just enough to stop the packing leak. This can be accomplished with the valve in line. After the gland bolts have been tightened, and if leaking persists, the stem packing should be changed. **There should be no pressure on the valve when the stem packing is changed.**

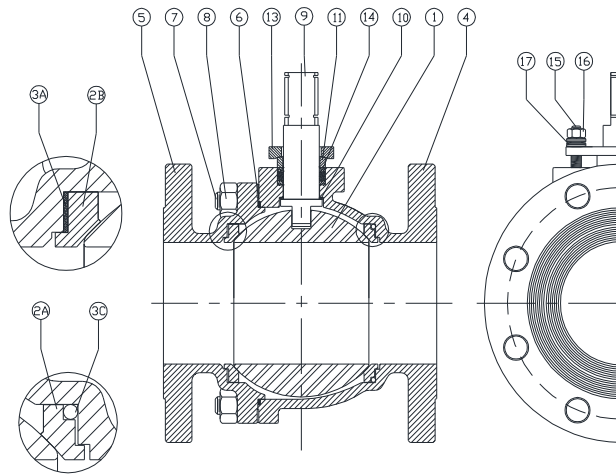
DISASSEMBLY

Jarecki Valves recommends returning metal seated valves to our factory concerning major repairs. A spare parts kit can be purchased for this valve. If valve disassembly becomes necessary in the field, proceed as follows:

1. Before removing the valve from the line, be certain the line pressure in the piping system has been depleted.
2. Cycle the valve while it is still in the line to remove any possible trapped pressure within the body cavity.
3. Remove valve from the line, setting the valve down horizontally. The valve should be supported in some fashion to prevent it from tipping over.
4. Match mark position of all mating parts prior to removal.
5. Remove lever assembly. With a wrench, stroke the valve so that it is in the closed position.
6. Unfasten the gland nut (16). Take out the compression plate (13), Belleville washers (17), and compression ring (11).
7. Place the valve with the tailpiece (5) facing up. Remove the body nuts (8).
8. Separate the tailpiece (5) from the body (4).
9. From the valve body (4), remove the ball (1), valve stem (9), and thrust washer (10).
10. Next, from the body, remove the guide seat (2A) and seat spring (3C).
11. From the valve tailpiece (5), remove the seal seat (2B) and the seat seal (3A).
12. Remove the stem packing (14). When removing packing, a nonmetallic pick should be used to prevent possible scratching of the packing box sealing surface.
13. Inspect all components and repair or replace as required. All seals should be replaced once disassembled.

ASSEMBLY

1. Thoroughly clean valve body and components with a solvent.
2. Place body (4) so that the body cavity is facing up. Place cardboard or some other material under the gasket area on the flange in order to protect the area. The valve should be supported in some fashion to prevent it from tipping over. Insert the seat spring (3C). Carefully place the (non-serrated) guide seat (2A) into the body seat cavity.
3. Insert the thrust washer (10), followed by the stem (9). Next, insert the ball (1) into the body cavity. Last, insert the body gasket (6) into the groove.
4. Place the tailpiece (5) so that the seat cavity is facing up. Place cardboard or some other material under the gasket area on the flange in order to protect the area. Insert seat seal (3A). Insert the (serrated) seal seat (2B).
5. Carefully attach body (4) and tailpiece(5) ensuring that the internals of the valve do not get displaced. Uniformly tighten all body nuts on the tail piece at this time. Stroke the stem occasionally to ensure proper alignment before fully tightening the nuts (8)
6. Insert the Jarecki supplied stem packing (14) into the packing box by installing each packing ring individually, and carefully pushing each ring into place with the compression ring (11).
7. Install the compression ring (11), compression plate (13), gland nuts (16) and Belleville washers (17) as shown. Snug nuts down only finger tight at this point.
8. Tighten the gland nut (16) just until the Belleville washers become flat. It is very important not to over torque the stem packing.
9. Cycle the valve to ensure it is functioning properly. There should be no sticking or jerking motion.
10. Attach the actuator assembly.
11. Operate valve to ensure it is functioning properly.



NO.	DESCRIPTION	MATERIALS	ITEM
1	BALL	316 STAINLESS STEEL/ HARD CHROME PLATED	1
2A	GUIDE SEAT	STELLITE	1
2B	SEAL SEAT	STELLITE	1
3A	SEAT SEAL	REINFORCED GRAPHITE	1
3C	SEAT SPRING	A286	1
4	BODY	A351 GR. CF8M	1
5	TAIL	A351 GR. CF8M	1
6	BODY GASKET	316 STAINLESS STEEL/SPIRAL WOUND	1
7	BODY STUD	ASTM A193 GR. B8	8
8	BODY NUT	ASTM A194 GR. 8	8
9	STEM	A286	1
10	THRUST WASHER	NITRONIC 60	1
11	COMPRESSION RING	304 STAINLESS STEEL	1
13	COMPRESSION PLATE	A351 GR. CF8M	1
14	STEM PACKING	GRAPHITE	A/R
15	GLAND BOLT	ASTM A193 GR. B8	2
16	GLAND NUT	ASTM A194 GR. 8	2
17	BELLEVILLE WASHER	INCONEL 718	6

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