



Installation, Operation and Maintenance Manual







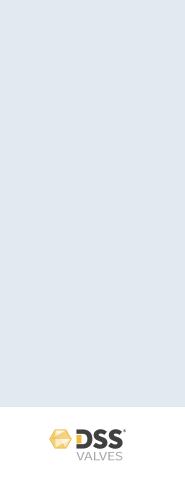


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Thank You for Choosing DSS Valves

At DSS Valves we have mastered the design and manufacture of the preeminent Severe Service Knife Gate Valves on the market. We're excited that you've decided to put your trust in our product.

To make sure you achieve maximum service life and trouble free operation from your investment, we've put together this **installation**, **operation and maintenance manual** that highlights the key features and benefits of your valve, as well as important information for valve upkeep.

Should you have any questions, please feel free to contact us directly.

Sincerely,

The Team at DSS Valves

DSS Valves 1800 Mayflower Road Niles, MI 49120 USA TEL: 269-409-6080 FAX: 269-409-6099 info@dssvalves.com DSSVALVES.COM



DISCLAIMER:



Working with industrial valves is inherently dangerous, and appropriate precautions should be taken at all times. Only skilled professionals with qualified experience using the tools and equipment required should be involved.

Proper understanding of the system and application the valve is being inserted into is a must.



Safety equipment should always be worn during the process, and should include but is not limited to steel toed boots, hard hats, ear and eye protection, and high visibility clothing.

Any alteration or modification to the valve supplied by DSS Valves must receive written approval. DSS Valves is not responsible for consequential damages should this written approval not be obtained.



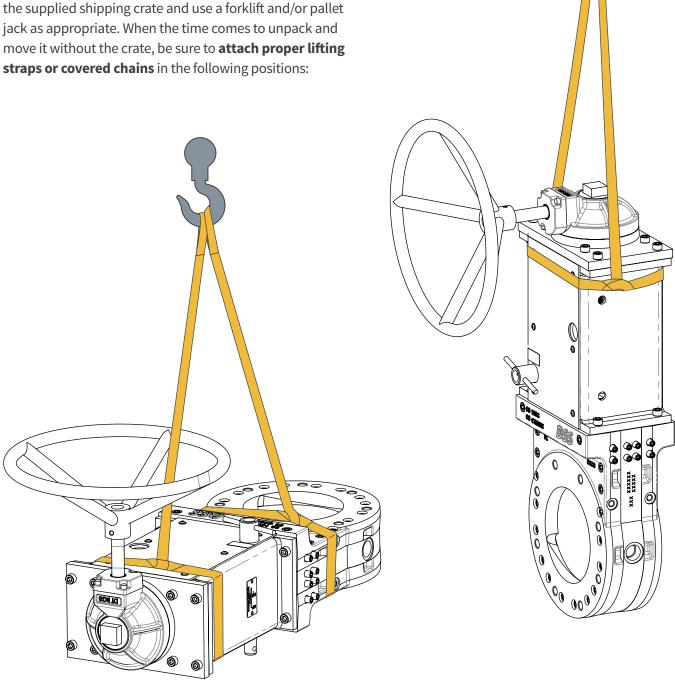
Installation Guidelines

STORAGE

Prior to installation, keep this valve in the factory applied shrink wrapping and store in a dry environment.

TRANSPORTATION

The safest and easiest way to move this valve is to leave it in the supplied shipping crate and use a forklift and/or pallet



Installation Guidelines

CLEANING THE INSTALLATION SITE

Remove dust, dirt, debris, and any applied corrosion protection from pipeline and flanges before installing the valve.

FLOW DIRECTION AND INSTALLATION POSITION

This valve can be installed in any required position, and comes factory tested for zero leakage isolation in either direction.

For valves supplied with Ni-Hard wear rings, bore reducers, or other body inserts the flow direction is more critical. Ensure that the inserts are on the upstream/high pressure side of the valve, and that the orange arrow point in the direction of the flow.



Orange preferred flow sticker

When installing, remember to make sure at least one side of the valve body is accessible so that the repacking screws can be adjusted.

PIPELINE ALIGNMENT

Inaccurately aligned pipelines can cause stress to the valve body. Be sure to have any misalignments corrected before installation of the valve.

MATING FLANGES

Always check to make sure the mating flanges have a proper seal – the bolts used in the blind flange holes in the valve's chest area should not touch the bottom of the holes. DSS Valves come standard with tapped flange holes, however through bolts are available upon request.

If further technical advice is required, feel free to consult DSS Valves directly: info@dssvalves.com

INSTALLING INTO A PIPELINE:

Note: This valve can be installed with the actuator in any position, with no need to support the actuator.

- Bolt the valve to the mating flange using the proper size fasteners. DSS recommends the use of studs to ensure the full thread engagement of tapped holes. If using stainless steel fasteners, lubricate to prevent galling.
- 2. Adjust fastener length for mating flange thickness, gaskets, and support rings.
- 3. Tighten the flange bolts in an alternating sequence.
- 4. Prepare the valve for hydro testing.

Hand Wheel Operated or Bevel Gear Operated Valves: no action required.

Air Cylinder-operated valves—connect the control air supply to the air cylinder. Standard configured valve required pressure is 50–100 psi.

Hydraulic Cylinder-operated Valves—connect control hydraulic supply to the hydraulic cylinder. Standard configured valve required pressure is 500–1000 psi.

Electric-operated Valves—connect electric supply according to instructions.

5. Hydro test the system. For more information, see the repacking the primary and secondary seals section in the maintenance portion of this manual.

Note: After the valve is installed and is under pressure, be sure to observe closely for the first 24 hours. Occasionally a small leak may occur if the gate seal integrity was impacted by rough transport, lengthy storage, or extreme temperature variations. This can be remedied by tightening the packing screws accordingly.

Repacking Procedures (page 9) >



CLASS 150					
NPS	Hex Head Flange Bolt	Flange Stud			
2	5/8-11 X 1.50 Long (Qty. 4)	N/A			
3	5/8-11 X 1.75 Long (Qty. 4)	N/A			
4	5/8-11 X 1.75 Long (Qty. 6)	5/8-11 X 3.00 Long (Qty. 2)			
5	3/4-10 X 1.75 Long (Qty. 2)	3/4-10 X 2.75 Long (Qty. 6)			
6	3/4-10 X 2.00 Long (Qty. 6)	3/4-10 X 3.00 Long (Qty. 2)			
8	3/4-10 X 2.25 Long (Qty. 4)	3/4-10 X 3.25 Long (Qty. 4)			
10	7/8-9 X 2.25 Long (Qty. 8)	7/8-9 X 3.25 Long (Qty. 4)			
12	7/8-9 X 2.25 Long (Qty. 8)	7/8-9 X 3.50 Long (Qty. 4)			
14	1-8 X 2.25 Long (Qty. 8)	1-8 X 3.75 Long (Qty. 4)			
16	1-8 X 2.50 Long (Qty. 10)	1-8 X 4.00 Long (Qty. 6)			
18	1 1/8-8 X 2.75 Long (Qty. 10)	1 1/8-8 X 4.25 Long (Qty. 6)			
20	1 1/8-8 X 3.00 Long (Qty. 12)	1 1/8-8 X 4.75 Long (Qty. 8)			
22	1 1/4-8 X 3.00 Long (Qty. 12)	1 1/4-8 X 4.75 Long (Qty. 8)			
24	1 1/4-8 X 3.25 Long (Qty. 12)	1 1/4-8 X 5.00 Long (Qty. 8)			
26	1 1/4-8 X 4.25 Long (Qty. 14)	1 1/4-8 X 6.25 Long (Qty. 10)			
28	1 1/4-8 X 4.50 Long (Qty. 18)	1 1/4-8 X 6.25 Long (Qty. 10)			
30	1 1/4-8 X 4.50 Long (Qty. 18)	1 1/4-8 X 6.50 Long (Qty. 10)			
32	1 1/2-8 X 4.75 Long (Qty. 16)	1 1/2-8 X 7.00 Long (Qty. 12)			
36	1 1/2-8 X 5.00 Long (Qty. 18)	1 1/2-8 X 7.25 Long (Qty. 14)			
42	1 1/2-8 X 6.25 Long (Qty. 22)	1 1/2-8 X 8.50 Long (Qty. 14)			
48	1 1/2-8 X 6.50 Long (Qty. 28)	1 1/2-8 X 8.75 Long (Qty. 16)			

FLANGE BOLTS AND STUDS

ASME B16.5 AND B16.47 SERIES A

	CLASS 300					
NPS	Hex Head Flange Bolt	Flange Stud				
3	3/4-10 X 2.00 Long (Qty. 6)	3/4-10 X 3.00 Long (Qty. 2)				
4	3/4-10 X 2.25 Long (Qty. 6)	3/4-10 X 3.50 Long (Qty. 2)				
6	3/4-10 X 2.50 Long (Qty. 6)	3/4-10 X 3.75 Long (Qty. 6)				
8	7/8-9 X 2.75 Long (Qty.8)	7/8-9 X 4.25 Long (Qty. 4)				
10	1-8 X 3.50 Long (Qty. 10)	1-8 X 4.75 Long (Qty. 6)				
12	1 1/8-8 X 3.50 Long (Qty. 10)	1 1/8-8 X 5.25 Long (Qty. 6)				
14	1 1/8-8 X 3.50 Long (Qty. 14)	1 1/8-8 X 5.50 Long (Qty. 6)				
16	1 1/4-8 X 4.25 Long (Qty. 14)	1 1/4-8 X 5.75 Long (Qty. 6)				
18	1 1/4-8 X 4.25 Long (Qty. 16)	1 1/4-8 X 6.25 Long (Qty. 8)				
20	1 1/4-8 X 4.50 Long (Qty. 16)	1 1/4-8 X 6.25 Long (Qty. 8)				
24	1 1/2-8 X 5.00 Long (Qty. 16)	1 1/2-8 X 7.25 Long (Qty. 8)				
26	1 5/8-8 X 5.50 Long (Qty. 18)	15/8-8 X 8.00 Long (Qty. 10)				
28	1 5/8-8 X 5.75 Long (Qty. 18)	1 5/8-8 X 8.25 Long (Qty. 10)				
30	1 3/4-8 X 6.25 Long (Qty. 18)	1 3/4-8 X 8.75 Long (Qty. 10)				
32	1 7/8-8 X 6.75 Long (Qty. 20)	1 7/8-8 X 9.00 Long (Qty. 8)				
36	2-8 X 7.50 Long (Qty. 22)	2-8 X 9.75 Long (Qty. 10)				
42	1 5/8-8 X 7.50 Long (Qty. 18)	1 5/8-8 X 9.75 Long (Qty. 14)				
48	1 7/8-8 X 8.25 Long (Qty. 18)	1 7/8-8 X 10.00 Long (Qty. 14)				

UNIFIED COURSE THREAD SERIES (UNC)

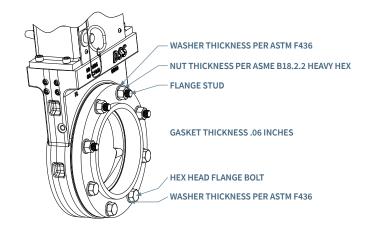
CLASS 150					
NPS	Hex Head Flange Bolt	Flange Stud			
2	5/8-11 X 1.50 Long (Qty. 4)	N/A			
3	5/8-11 X 1.75 Long (Qty. 4)	N/A			
4	5/8-11 X 1.75 Long (Qty. 6)	5/8-11 X 3.00 Long (Qty. 2)			
5	3/4-10 X 1.75 Long (Qty. 2)	3/4-10 X 2.75 Long (Qty. 6)			
6	3/4-10 X 2.00 Long (Qty. 6)	3/4-10 X 3.00 Long (Qty. 2)			
8	3/4-10 X 2.25 Long (Qty. 4)	3/4-10 X 3.25 Long (Qty. 4)			
10	7/8-9 X 2.25 Long (Qty. 8)	7/8-9 X 3.25 Long (Qty. 4)			
12	7/8-9 X 2.25 Long (Qty. 8)	7/8-9 X 3.50 Long (Qty. 4)			
14	1-8 X 2.25 Long (Qty. 8)	1-8 X 3.75 Long (Qty. 4)			
16	1-8 X 2.50 Long (Qty. 10)	1-8 X 4.00 Long (Qty. 6)			
18	1 1/8-7 X 2.75 Long (Qty. 10)	1 1/8-7 X 4.25 Long (Qty. 6)			
20	1 1/8-7 X 3.00 Long (Qty. 12)	1 1/8-7 X 4.75 Long (Qty. 8)			
22	1 1/4-7 X 3.00 Long (Qty. 12)	1 1/4-7 X 4.75 Long (Qty. 8)			
24	1 1/4-7 X 3.25 Long (Qty. 12)	1 1/4-7 X 5.00 Long (Qty. 8)			
26	1 1/4-7 X 4.25 Long (Qty. 14)	1 1/4-7 X 6.25 Long (Qty. 10)			
28	1 1/4-7 X 4.50 Long (Qty. 18)	1 1/4-7 X 6.50 Long (Qty. 10)			
30	1 1/4-7 X 4.50 Long (Qty. 18)	1 1/4-7 X 6.75 Long (Qty. 10)			
32	1 1/2-6 X 4.75 Long (Qty. 16)	1 1/2-6 X 7.00 Long (Qty. 12)			
36	1 1/2-6 X 5.00 Long (Qty. 18)	1 1/2-6 X 7.25 Long (Qty. 14)			
42	1 1/2-6 X 6.25 Long (Qty. 22)	1 1/2-6 X 8.50 Long (Qty. 14)			
48	1 1/2-6 X 6.50 Long (Qty. 28)	1 1/2-6 X 8.75 Long (Qty. 16)			

Hex screws and studs sized according to the use of the following hardware:

- Nuts per ASME B18.2.2 dimensions.
- Gasket thickness of .06 of an inch.
- Washers per ASTM F436 dimensions.
- Flange fitting per ASME B16.5 and B16.47 series A.

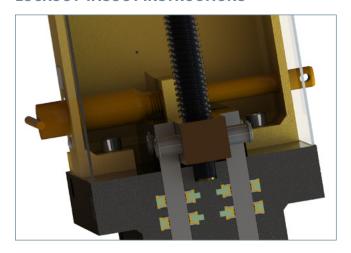
End user to assure that any deviation from these components is accounted for when selecting screw and bolt length.

CLASS 300					
NPS	Hex Head Flange Bolt	Flange Stud			
3	3/4-10 X 2.00 Long (Qty. 6)	3/4-10 X 3.00 Long (Qty. 2)			
4	3/4-10 X 2.25 Long (Qty. 6)	3/4-10 X 3.50 Long (Qty. 2)			
6	3/4-10 X 2.50 Long (Qty. 6)	3/4-10 X 3.75 Long (Qty. 6)			
8	7/8-9 X 2.75 Long (Qty.8)	7/8-9 X 4.25 Long (Qty. 4)			
10	1-8 X 3.50 Long (Qty. 10)	1-8 X 4.75 Long (Qty. 6)			
12	1 1/8-7 X 3.50 Long (Qty. 10)	1 1/8-7 X 5.25 Long (Qty. 6)			
14	1 1/8-7 X 3.50 Long (Qty. 14)	1 1/8-7 X 5.50 Long (Qty. 6)			
16	1 1/4-7 X 4.25 Long (Qty. 14)	1 1/4-7 X 5.75 Long (Qty. 6)			
18	1 1/4-7 X 4.25 Long (Qty. 16)	1 1/4-7 X 6.25 Long (Qty. 8)			
20	1 1/4-7 X 4.50 Long (Qty. 16)	1 1/4-7 X 6.25 Long (Qty. 8)			
24	1 1/2-6 X 5.00 Long (Qty. 16)	1 1/2-6 X 7.25 Long (Qty. 8)			
26	15/8-6 X 5.50 Long (Qty. 18) 15/8-6 X 8.00 Long (Q				
28	15/8-6 X 5.75 Long (Qty. 18)	1 5/8-6 X 8.25 Long (Qty. 10)			
30	1 3/4-5 X 6.25 Long (Qty. 18)	1 3/4-5 X 8.75 Long (Qty. 10)			
32	17/8-8 X 6.75 Long (Qty. 20)	1 7/8-8 X 9.00 Long (Qty. 8)			
36	2-4 1/2 X 7.50 Long (Qty. 22)	2-4 1/2 X 9.75 Long (Qty. 10)			
42	15/8-6 X 7.50 Long (Qty. 18)	1 5/8-6 X 9.75 Long (Qty. 14)			
48	1 7/8-8 X 8.25 Long (Qty. 18)	17/8-8 X 10.00 Long (Qty. 14)			



Operation Guidelines

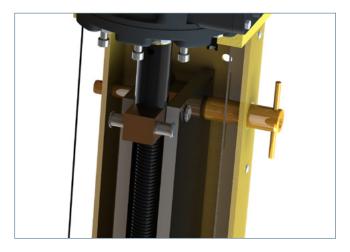
LOCKOUT-TAGOUT INSTRUCTIONS



Closed lockout-tagout procedure:

- 1. Actuate the valve to the fully closed position isolating upstream flow from downstream piping.
- 2. Insert orange lockout-tagout pin through bottom hole of the left yoke from the front body side.

 Lockout-tagout pin must pass through first wall of the yoke over the top of the gate and then into the center pin block where it will be threaded up against the beveled seat of the gate. Ensure that the pin is tightened against the gate guaranteeing a positive shutoff in the closed position.
- 3. A hole is provided on the back body side of the pin for attaching lockout-tagout hasps, padlocks or other similar items.
- 4. The double block and bleed valve is now fully locked out in the closed position. Do not attempt to open the valve as this may compromise the seal and damage the pin.
- 5. To actuate the valve after lock and tag condition is no longer required, unscrew the pin and completely remove from yoke.
- 6. The valve can now be actuated when needed.



Open lockout-tagout procedure:

- 1. Actuate the valve to the fully open position allowing upstream flow to downstream piping.
- 2. Insert orange lockout-tagout pin through top hole of the right yoke from the front body side. Lockout-tagout pin must pass through first wall of the yoke then into the gate where it will be threaded up against the beveled seat of the gate. A hole is provided on the back body side of the pin for attaching lockout-tagout hasps, padlocks or other similar items.
- 3. The double block and bleed valve is now fully locked out in the open position.
- 4. To actuate the valve after lock and tag condition is no longer required, unscrew the pin and completely remove from yoke.
- 5. The valve can now be actuated when needed.

(!) CAUTION

Do not manually operate the actuator with devices other than the installed handwheel or operator. Using additive force devices such as cheater bars, wheel wrenches, pipe wrenches, or other devices on the handwheel or operator may cause serious personal injury and/or damage the valve operator.



Maintenance Guidelines

REPACKING THE VALVE

Required Tools and Parts

Energizing the cavity seal only requires the following Allen wrench (based on size and class).

Additional packing pellets (available from local distributors) and a handled dowel (to push the packing into the Allen screw holes) may also be needed if the screws have reached the end of travel and more packing is required.

By Size Range / Class	Allen Wrench (Hex Key)
Class 150 2"-5" & 6" Cast	3/16
Class 150 6" Wrought	1/4
Class 150 8"-12" & 14" Cast	1/4
Class 150 14" Wrought	5/16
Class 150 16"-36"	5/16

Figure 1: **SSKGV** (4) packing screws per side.

(!) CAUTION

Valves made by DSS are designed to be repacked while in service, under full line pressure. However, it is always recommended that the proper precautions are taken when working on a valve in service. These include, but are not limited to:

- Wearing the correct personal protective equipment (i.e. safety glass, safety gloves)
- Avoiding potential pinch points

By Size Range / Class	Allen Wrench (Hex Key)	
Class 300 3-4"	3/16	
Class 300 6" Cast	3/16	
Class 300 6" Wrought	1/4	
Class 300 8-16"	1/4	
Class 300 16-36"	5/16	



Figure 2: **DBB** (8) packing screws per side.

Maintenance Guidelines

WHEN TO REPACK THE VALVE

The required frequency to repack a DSS valve is dependent on the application and maintenance practices.

Trigger	Procedure	Frequency
Installation The cavity seal should be checked for signs of leakage. If a leakage is seen use the procedure below. If no leakage is seen use the procedure below. If		24 Hours after Start-up
Signs of Leakage	As described above	As required
High Cycle Applications: 1 cycle per hour or more Inspect valve for signs of leakage. If leakage is observed, follow the procedures as described above.		Monthly
Elevated Temperatures: Above 80% of the procedures as described above. elastomers rated Inspect valve for signs of leakage. If leakage is observed, follow the procedures as described above.		Monthly
Scaling Applications	Inspect valve for signs of leakage. If leakage is observed, follow the procedures as described above.	When lines are "Weak Washed" or "Flushed" with a solution designed to break down the scale lining the walls of the pipe.

PROCEDURE

All DSS valves can be repacked while installed in line, under full pressure. Simply tighten the packing screws on each side of the SSKGV or the DBB (see page 9) using the following guidelines:

- The amount of revolutions required of each screw to fully repack a valve will vary.
- Start by turning each screw a half turn and observe if the leakage stops. If the valve continues to leak, adjust each screw a quarter turn at a time, until the leakage stops. If possible, and safe to do so, cycle the valve partially to help distribute the packing after every 1-2 adjustments.
- Ensure that each screw is adjusted equally to evenly distribute the packing and reduce the risk of over loading one area of the cavity seal against the gate.

If one of the packing screws has reached the end
of its travel, the screw can be safely removed, and
additional packing pellets inserted. A round 1/8"
diameter handled dowel (cut off screw driver or
welding rod will also work) can be used to press the
pellets into hole until enough threads are exposed
to reinstall the screw. Ensure that the threads are
not damaged in the process. Depending on the size,
normally one or two additional pellets is all that
is required.

(!) CAUTION

Overpacking or adding an excessive number of pellets can affect the actuation. Repack only until the valve seals completely or for preventative maintenance a quarter turn for each screw.



Maintenance Guidelines

REPLACING THE PRIMARY AND SECONDARY SEAL

Attention: Damaged or worn primary and secondary seals need to be replaced. Seal kits can be purchased separately if this is being done on site. Alternatively, the valve can be sent back to the DSS factory for maintenance.

If you choose to do this yourself, replacement kits include a resilient seal, primary and secondary seals, TFE packing pellets, and scraper blades (see parts list on page 13).

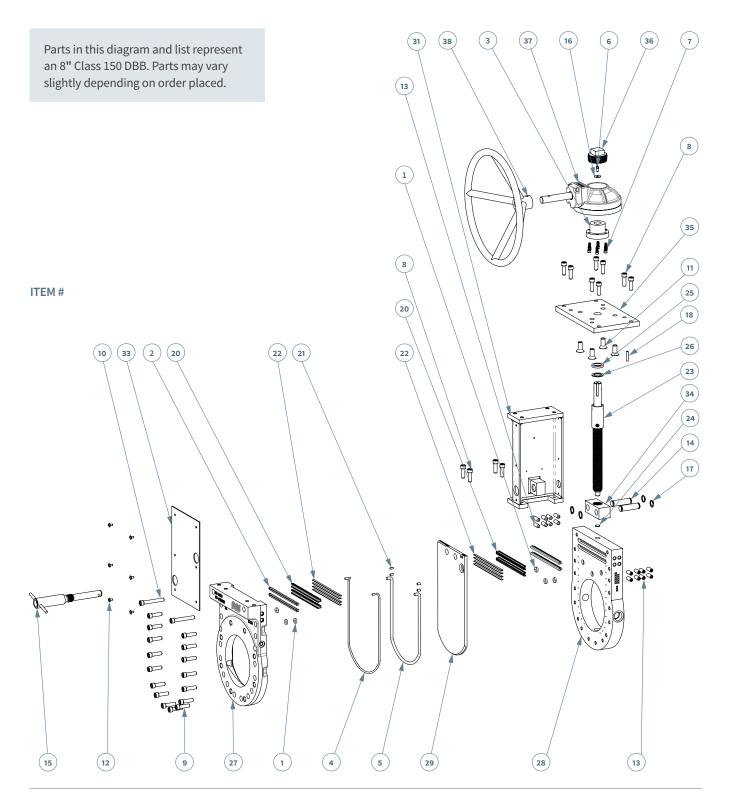
Warning: This is a labor-intensive operation, which should be conducted by a qualified valve technician using the appropriate safety equipment.

- 1. Remove the dust covers, actuator, and top structure from the valve bodies.
- 2. Remove the body screws, and then separate the bodies.
- 3. Note the position of the existing seals, and then gently pry out the old seals.
- 4. Remove any debris around the sealing area on the interior of the valve body.
- 5. Prep the replacement resilient primary or secondary seal by removing any packaging material.
- 6. The stranded green packing material must remain in the pocket of the primary resilient or secondary seal. If stranded material falls out, simply push it back into place.
- 7. Place the resilient seals in the machined seal groove on the body half by starting at one end of the groove.
- 8. Once the new primary or secondary seal is installed in the groove, insert the scrapers between the seal and the side of the machined groove. This process should be repeated for each seal in each body.

- 9. On the front body half (with the gate pocket), insert the end of the resilient seal into the tuck hole below in the gate pocket. The seal should seat securely on the bottom of the tuck hole.
- 10. Install the gate in the body half. Push the resilient seal into the machined groove all the way around the gate. Insert the end of the resilient seal into the other tuck hole. Any excess seal material should be cut so that the seal seats securely on the bottom of the tuck hole.
- 11. If installing a replacement secondary seal, use the steps as listed above.
- 12. Close the valve by sliding the gate until it fully seats.
- 13. Install the Teflon corner seals on both sides of the gate where the seal enters the tuck hole.
- 14. Push packing pellets into the area between the resilient seal and the Teflon corner seal.
 An Allen wrench or other blunt ended tool to will aid in this operation.
- 15. Gently place the back body half on the front body half, and reinstall all body screws that were previously removed.
- 16. Proper sealing of the primary resilient and secondary seals can be maintained during operation by further packing through the external holes on each side of the valve bodies.

Double Block and Bleed

Parts Diagram and List



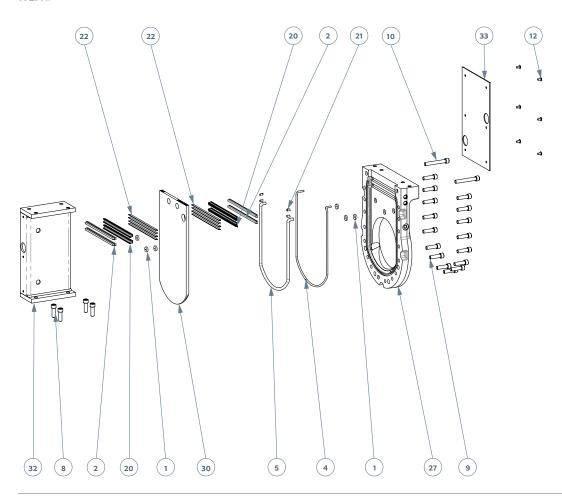


ITEM#	QTY	DESCRIPTION
1*	12	Disc, Gate Glide
2*	2	Packing
3	1	Drive Hub, Bevel Gear 3
4*	2	Seal, Secondary
5*	2	Seal, Primary
6	1	Key Rtnr Cap Screw
7	6	Hub Mtg Cap Screw
8	16	Yoke Cap Screws
9	32	Body Screws
10	4	Body Screws, Rib
11	4	Gear Mtg Screws
12	12	Dust Cover Screws
13	16	Packing Screws

ITEM#	ΩТΥ	DESCRIPTION
14	2	Pin, Clevis
15	1	Pin, Positive Lockout-Tagout
16	1	Key Retnr Washer
17	4	Clevis Pin Rtng Ring
18	1	Stem Key
19	1	Tag, Identification
20	8	Seal, Cavity
21	8	Seal, Quarter
22	12	Blade, Seal Scraper
23	1	Screw, Assembly
24	1	Disc, Thrust
25	1	Washer, Thrust
26	1	Bearing, Thrust

ITEM#	ΩТΥ	DESCRIPTION	
27	2	Body, Double Block and Bleed Front	
28	1	Body, Double Block and Bleed Center	
29	1	Gate A, Double Block and Bleed	
30	1	Gate B, Double Block and Bleed	
31	1	Yoke, Double Block and Bleed Left	
32	1	Yoke, Double Block and Bleed Right	
33	2	Cover, Double Block and Bleed Dust	
34	1	Nut, Screw	
35	1	Plate, Bevel Gear 3	
36	1	2-1/2 Hollow Pipe Plug, B16.14	
37	1	Bevel Gear Reducer, 3:1	
38	1	Handwheel, 18" Round Recessed	

ITEM#



 $^{{}^{\}star}\mathsf{Recommended}\;\mathsf{spare}\;\mathsf{parts}.\;\mathsf{Available}\;\mathsf{in}\;\mathsf{standard}\;\mathsf{repair}\;\mathsf{kit}.$

Troubleshooting

PROBLEM	STEPS	POSSIBLE CAUSE	SPARE PARTS	RECOMMENDATIONS
Fugitive emissions leak (Bonnet area or between body halves)	1	Insufficient packing pressure on primary and secondary seals	Packing	Follow Repacking the Valve guidelines on page 9.
natvesy	2	Primary or secondary seals are damaged	Seal Kit	Follow primary and secondary seals replacement guide in IOM, a repair kit is required.
Leaking past gate	1	Improper seating in closed position	None	If manual operator, cycle the valve full closed; lockout-tagout pin should slide through left yoke over the gate. Caution: ensure the pin is removed before further cycling is attempted.
	2	Insufficient packing pressure on primary and secondary seals	Packing	Follow Repacking the Valve guidelines on page 9.
	3	Improper limit switch adjustment	None	Consult factory, or limit switch manufacturer, for adjustment procedure.
	4	Build-up on seat seal	None	Consult factory.
	5	Compromised primary gate seal	Seal Kit	Remove valve from pipe, with gate fully open, visually inspect primary seal for signs of damage. Follow primary and secondary seals replacement guide in IOM, a repair kit is required.
Open lockout- tagout pin will not engage	1	Various	None	Consult factory.
Valve will not cycle, moves slowly or erratically	1	Lockout-tagout pin left in	None	Ensure safe work practices are followed, remove Lockout- Tagout Pin if easy to do so. If the pin is pinched between the gate and yoke, stroke the valve open or close to alleviate force on the pin and remove it. Visually inspect the pin and yokes; consult factory if bent or damaged.
	2a	Hex Head Flange bolts in chest/blind holes	None	Consult Installation Guidelines on page 6.
	2b	Flange bolts are over-tightened	None	Loosen flange bolting and re-torque the bolts after consulting the gasket manufacturers' torque specification. All DSS valve flanges have a max torque that should not be exceeded. More information can be found in TECH-003 bulletin.
	3	Overpacked primary and secondary seals	Packing	Remove packing screws and attempt to actuate valve. If the valve is over-packed, once the valve begins to cycle, excess packing will extrude from the packing screw holes. Consult When to Repack the Valve on page 10.



WARNING

It's highly recommended that persons working with DSS Valves products are factory trained or approved to complete teardown, reassembly and testing.

IMPORTANT

Please ensure recommended spares are on hand in the event the product needs to be overhauled.

ADDITIONAL GUIDELINES

Please consult your designated distributor for current Technical Bulletins and additional troubleshooting guidelines.







Contact Us

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