


Installation-Ready™ Knife Gate Valves

SERIES 795 AND 906

Before operating or servicing the Installation-Ready™ Knife Gate Valve, please reference the I-795/906 Installation and Maintenance Instructions for complete instructions and warnings. This quick guide should not be used as a substitute for a complete reading and a full understanding of the installation and maintenance instructions.

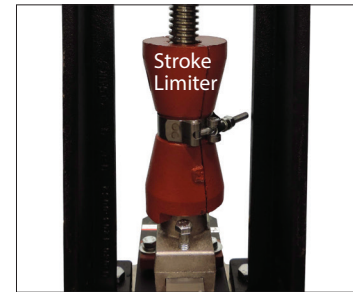
REMOVING THE EXISTING SEAT CARTRIDGE

DANGER

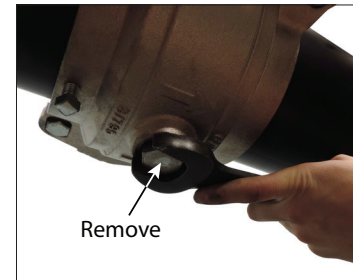


- Depressurize and drain the piping system completely before attempting to remove the seat cartridge. Failure to follow this instruction could result in death or serious personal injury and property damage.

1. DEPRESSURIZE AND DRAIN SYSTEM: Depressurize, drain, and flush the piping system completely and return the knife to the fully closed position before removing the seat cartridge.



2. REMOVE STROKE LIMITER: Remove the stroke limiter in order to raise the stem completely. Using a 7/16-inch/11 mm deep-well socket wrench, remove the nut on the T-bolt clamp and pull the clamp apart. Remove the T-bolt clamp and split the two halves of the stroke limiter to remove.

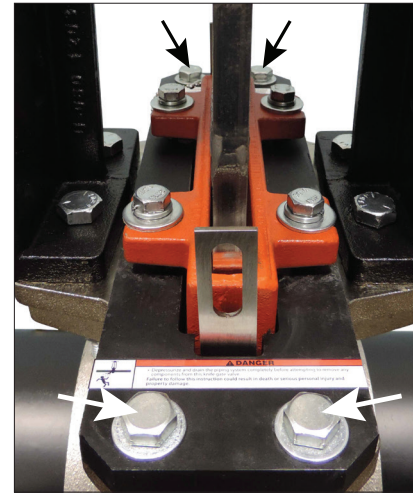


3. REMOVE PLUG: Using a 1 1/4-inch/32 mm wrench (for the 3 to 8" valves) or a 1 1/2-inch/38 mm wrench (for the 10 to 12" valves), remove the plug from the bottom of the valve body.



4. REMOVE AND RELOCATE GATE CONNECTOR SCREWS: Remove the two hex cap screws from the gate connector. Relocate them through the tab on each side of the seat and into the side of the knife, then finger-tighten. This is necessary to attach the seat to the knife during removal in later steps.

Valve Size	Retaining Plate Bolt Size	Retaining Plate Socket Size in/mm
3-8"	7/16"	5/8-inch/M16 Bolt 3/4-inch/M19 Nut
10-12"	3/4"	1 1/8-inch/M29 Bolt 1 1/8-inch/M29 Nut



5. REMOVE RETAINING BOLTS:

Remove the four hex cap bolts and nuts from the retaining plate.

NOTE: Do NOT remove the packing screws. Doing so will damage the seat.

6a. OPEN VALVE: For handwheel operated valves, operate the handwheel in the "open" direction (counterclockwise) to draw the seat out from the valve body.

6b. For pneumatically or hydraulically operated valves, actuate the valve open to draw the seat out from the valve body.

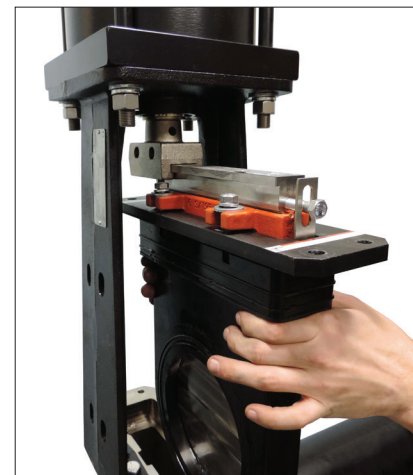
CAUTION

- Support the seat cartridge during actuation to prevent lateral movement. Though the valve is operable in any orientation, angled placement may allow an unsupported seat cartridge to slide out of the gate connector prematurely. Failure to follow this instruction could result in personal injury or property damage.

WARNING



- Keep hands away from the edges of the knife seat while lifting it from or replacing it into the valve body. Failure to follow this instruction could result in personal injury.



7. REMOVE CARTRIDGE: When the seat has cleared the opening of the valve body, slide the seat cartridge out from the slot in the gate connector.

NOTE: When removing the seat cartridge, be prepared to support its weight with both hands. Refer to the table that follows for specific weights before attempting to remove the seat cartridge. Larger sizes may require the use of mechanical lifting equipment.

WARNING



- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Wear safety glasses, hardhat, foot protection, and hearing protection.

Failure to follow instructions and warnings could cause system failure, resulting in death or serious personal injury and property damage.

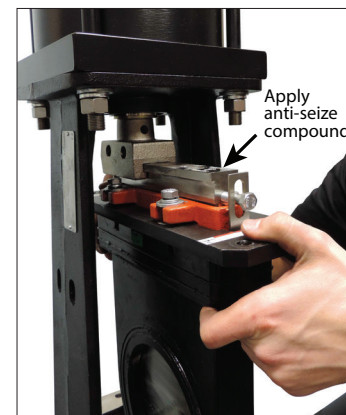
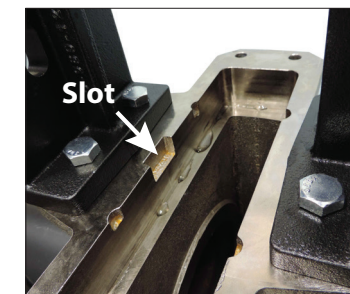
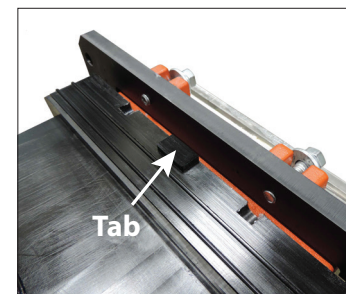
Nominal Pipe Size in/mm	Seat Cartridge Dimensions – in/mm			Seat Cartridge Weight lbs/kg
	Width	Depth	Height	
3	9.88	3.88	10.88	16.30
80	251.0	98.6	276.4	7.4
4	10.75	3.88	12.13	19.70
100	273.1	98.6	308.1	8.9
6	13.00	3.88	15.00	28.90
150	330.2	98.6	381.0	13.1
8	15.50	3.88	18.25	40.70
200	397.3	98.6	463.6	18.5
10	19.00	5.00	23.00	82.00
250	482.6	127.0	584.2	37.2
12	20.63	5.00	25.50	100.60
300	524.0	127.0	647.7	45.6

8. CLEAN VALVE: Ensure that the seat cavity and drain plug are free from debris by flushing the cavity with water. Wipe clean the sealing faces with a rag or brush. Inspect the cavity to ensure that particles have been removed. All foreign matter should be cleared away before replacing the seat cartridge.

NOTICE

- Victaulic recommends having a spare replacement seat cartridge available to prevent maintenance delays.

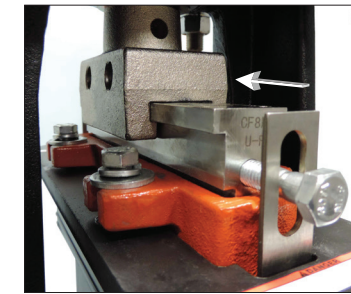
INSTALLING THE REPLACEMENT SEAT CARTRIDGE



1a. PREPARE CARTRIDGE SURFACES: Apply a thin coat of Victaulic Lubricant or silicone lubricant to all exterior surfaces of the new seat cartridge.

NOTE: The seat contains a tab that must be installed facing the slot in the valve body, as shown above.

1b. Add a thin coat of anti-seize compound to the top of the knife, as shown to the left, to aid with installation and with future removal of the cartridge.

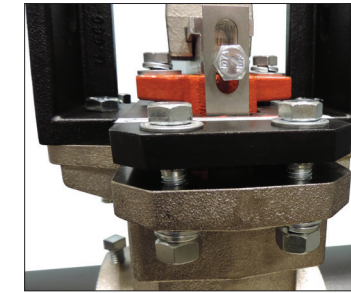


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2. INSERT CARTRIDGE: Slide the replacement seat cartridge into the slot in the gate connector.

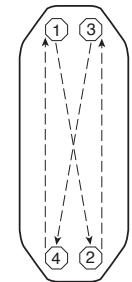
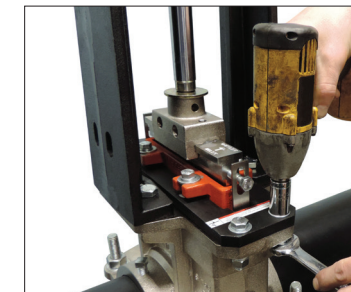
3a. CLOSE VALVE: For handwheel operated valves, operate the handwheel slowly in the "closed" direction (clockwise) to bring the seat toward the valve body. Ensure that the tab of the seat is facing the slot in the valve body, as shown in step 1.

To prevent damage to the surfaces of the seat, do not attempt to operate the handwheel at an increased rate, or by using a drill or impact gun.



3b. For pneumatically and hydraulically operated valves, actuate the valve closed to bring the seat toward the valve body.

4. REPLACE RETAINING BOLTS: When the retaining plate is 1 inch/25 mm or less from the valve body, insert the four hex cap bolts and flat washers through the retaining plate and into the valve body, as shown.



5. TIGHTEN RETAINING BOLTS: Tighten the four hex cap bolts evenly by alternating sides (as shown above) until the lock washers are fully compressed. There should be metal-to-metal contact between the plate and the housing.

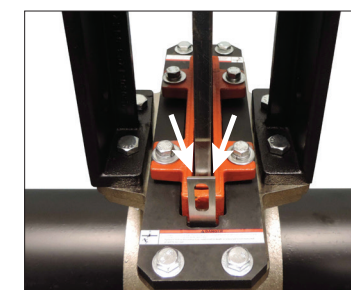
6. REMOVE AND RELOCATE GATE CONNECTOR SCREWS: Remove the two hex cap screws from the knife and relocate them to the gate connector (reversing the sequence shown in step 4 of the cartridge removal section). Ensure that the hex cap screw is threaded down so that the head is below the washer.

7. REPLACE PLUG: Replace the plug in the bottom of the valve body.

8. REPLACE STROKE LIMITER: Replace the stroke limiter on the stem by reversing the procedure for removal. Do not tighten the T-bolt clamp past 75 in-lbs.

CAUTION

- DO NOT place the valve back in service without replacing the stroke limiter. Failure to follow these instructions will damage valve components. This may result in property damage, and could void the product warranty.



9. INSPECT GAP: Operate the handwheel (or the pneumatic or hydraulic operator) to raise the knife out of the valve body. Ensure that the gap on both sides of the knife is equal. The hex cap screws of the packing gland can be adjusted, if necessary, to achieve an equal gap on both sides of the knife. Refer to the Installation and Maintenance Instructions for details.