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.MNT 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

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.

Failure to follow this instruction could result in death or serious personal injury and property damage.

2. REMOVE STROKE LIMITER: Remove the stroke limiter in order to raise the stem completely. Using a 3/16-inch/5 mm deep-wall 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.

Failure to follow this instruction could result in serious personal injury and property damage.

3. REMOVE PLUG: Using a 1/4-inch/6 mm wrench (for the 3 to 8" valves) or a 5/16-inch/8 mm wrench (for the 10 to 12" valves), remove the plug from the bottom of the valve body.

Failure to follow this instruction could result in personal injury or property damage.

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

Failure to follow this instruction could result in serious personal injury and property damage.

5. REMOVE RETAINING BOLTS: Remove the four hex cap bolts and nuts from the retaining plate.

NOTE: Do NOT remove the plug from the seat. Doing so will damage the seat cartridge.

6. OPEN VALVE: For handwheel operated valves, operate the valve 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.

Failure to follow this instruction could result in serious personal injury and property damage.

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

CAUTION

- Support the seat cartridge during actual 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.
- The seat contains a tab that must be installed facing the slot in the valve body, as shown in step 1.
- When removing the seat cartridge, be prepared to support it without the tab of the seat is facing the slot in the valve body, as shown in step 1.
- Failure to follow this instruction could result in serious personal injury and property damage.

8. CLEAN VALVE: Ensure that the seat cavity and drain plug are free from foreign matter. 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 cleaned away before replacing the seat cartridge.

Failure to follow this instruction could result in serious personal injury and property damage.

INSTALLING THE REPLACEMENT SEAT CARTRIDGE

- 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.

NOTE

- VICTAULIC recommends having a spare replacement seat cartridge available to prevent maintenance delays.
- Do NOT remove the 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.
- Failure to follow these instructions will damage valve components. This may result in property damage, and could void the product warranty.

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

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

2. ADD A THICK ARO-SIZE COMPONENT TO THE TOP OF THE KNIFE, AS SHOWN IN THE LEFT, TO ALIGN WITH THE NEW REAR OF THE CARTRIDGE.

3. CLOSE VALVE: For handwheel operated valves, operate the valve 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.

Failure to follow this instruction could result in serious personal injury and property damage.

4. 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.

5. TIGHTEN RETAINING BOLTS: Tighten the four hex cap bolts evenly by alternating sides (as shown above) until the lock washers are fully compressed.

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 screws are threaded down so that the head is below the washer.

Failure to follow this instruction could result in serious personal injury and property damage.

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

Failure to follow this instruction could result in serious personal injury and property damage.

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.

Failure to follow this instruction could result in serious personal injury and property damage.

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. If the gap is too large on either side, refer to the Installation and Maintenance Instructions for details.

NOTE

- Failure to follow these instructions will damage valve components. This may result in property damage, and could void the product warranty.

- Do NOT remove the valve back in service without replacing the stroke limiter.
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