

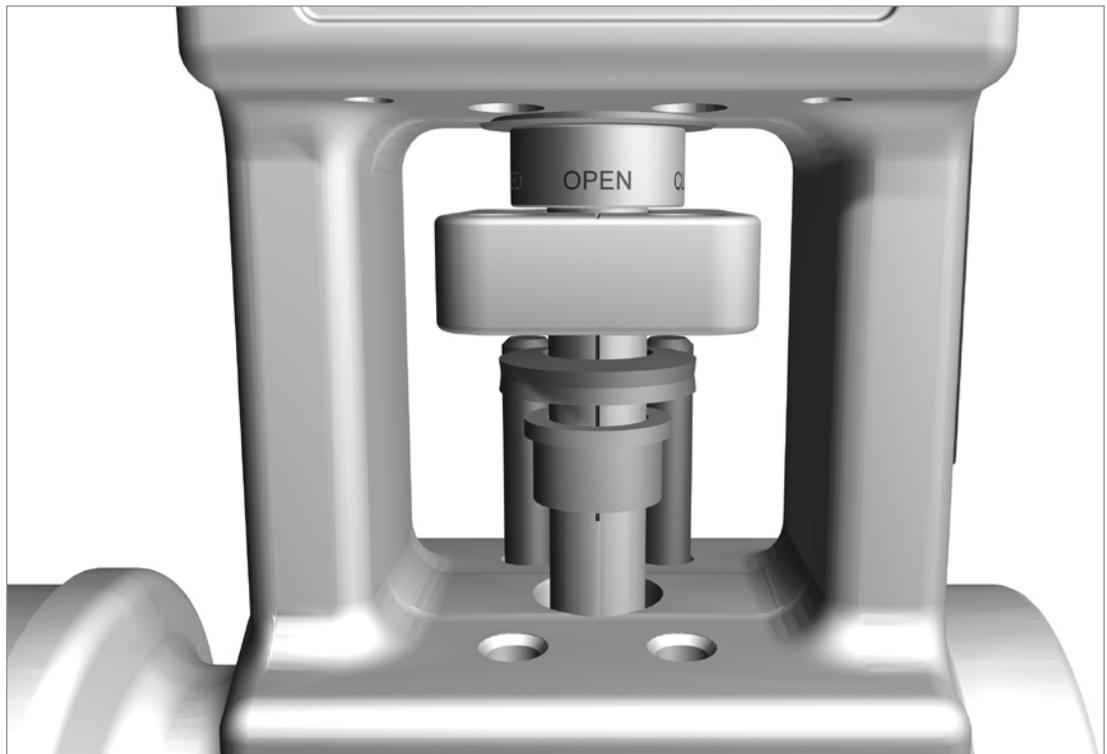
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# Replacing Stem Packing

for the MOGAS

**Improved RSVP Metal Seated Ball Valve**

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**MOGAS**<sup>®</sup>  
SEVERE SERVICE BALL VALVES

# REPLACING STEM PACKING



## WARNING!

**DO NOT** perform this task under line pressure. Make sure the line is **not** under pressure.

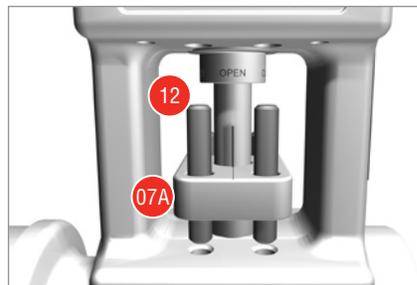
### Note:

Refer to exploded view of valve (page 6) to identify parts and reference numbers.

- 1 Locate packing gland nuts (15). Turn nuts counter clockwise to loosen and remove packing gland nuts.



- 2 Locate and slide upward the gland flange (07A), live-loading springs (07C) and gland thruster (07B).

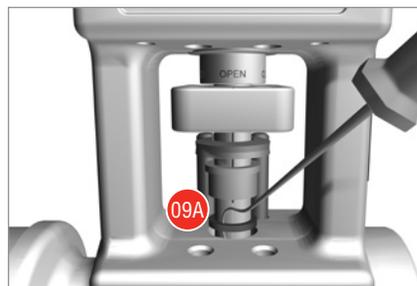


- 3 Remove studs (12) — this allows access to the used packing rings.



- 4 Using a small pick, carefully remove the packing rings (09A).

The solid metal anti-extrusion ring (09C) at the bottom of the packing box should **not** be removed.

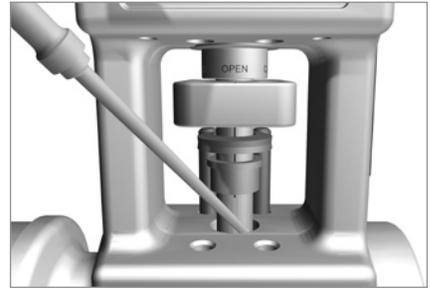


# REPLACING STEM PACKING

- 5 Use an air hose to clean debris from packing box before installing new packing rings.

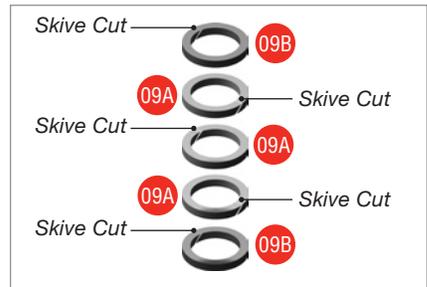
**Note:**

*Always wear a face shield or mono-goggles to protect eyes from flying debris.*



- 6 The new packing ring set will contain 2 anti-extrusion rings (09B) and 2 or 3 packing rings (09A). (Refer to the table below to verify the correct packing ring quantity.)

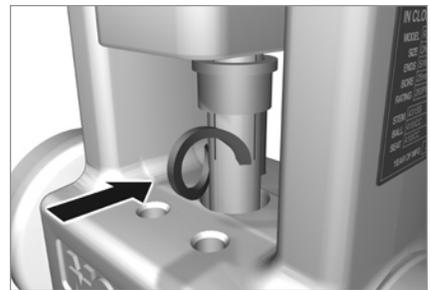
These rings are supplied with a skive cut. Assemble the rings as shown. Position the skive cut on each ring opposite, alternating the adjacent skive cut rings. All rings should fit into the packing box.



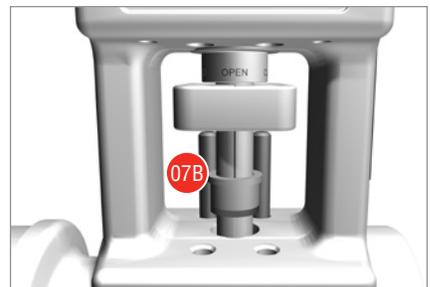
Quantity of Valve Packing Rings			
Valve Bore	1500#	3100#	4500#
0.63 inches	2	3	3
1.00 inches	3	3	3
1.3 inches	3	3	—
1.5 inches	3	—	—

- 7 Carefully bend each fragile ring, spiraling it around the stem (05), then insert and evenly press into the packing box.

**DO NOT** try to open ring wide enough to install the ring from the front. Instead, snake it around the stem, minimizing how wide it must be opened. Forcing the ring onto the stem frontally usually causes the ring to break.



- 8 Use gland thruster (07B) as tool to slide each ring into packing box. Continue this process until all rings are positioned correctly in the packing box.



# REPLACING STEM PACKING

- 9 Slide the gland thruster (07B) over the packing box.



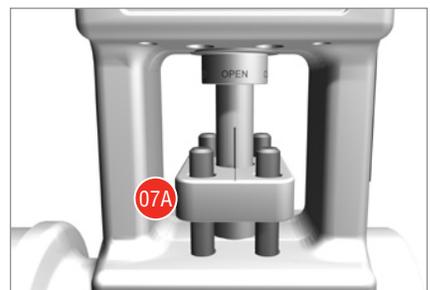
- 10 Position the live load springs (07C) on top of the gland thruster (07B).



- 11 Re-install the studs (12).



- 12 Re-install the gland flange (07A) over the packing bolting.

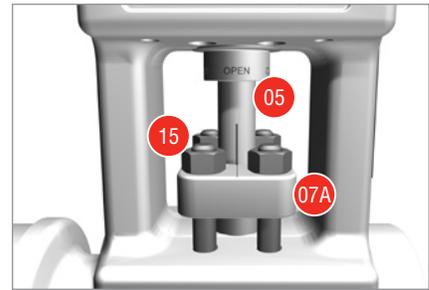


# REPLACING STEM PACKING

- 13 Install and tighten nuts (15) evenly by alternating sides when tightening. Make sure the gland flange (07A) does not bind or drag on the stem (05).

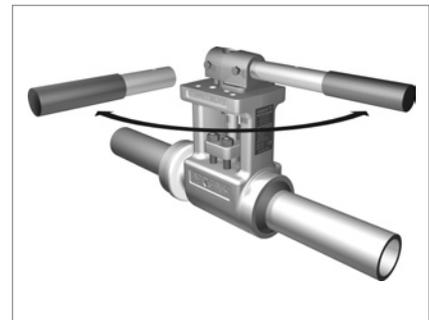
The following table shows the proper torque required.

<b>Recommended Packing Gland Stud Torque (ft. lbs.)</b>			
<b>Valve Bore</b>	<b>1500#</b>	<b>3100#</b>	<b>4500#</b>
0.63 inches	4	11	16
1.00 inches	7	15	25
1.3 inches	8	17	—
1.5 inches	9	—	—



- 14 Cycle valve a couple times to ensure proper re-packing.

Verify torque as shown in the table above.



# VALVE PART NUMBER REFERENCE

