FORT VALE™

Ball Valve Dismantling.

2” FULL BORE BLACKO BALL VALVE

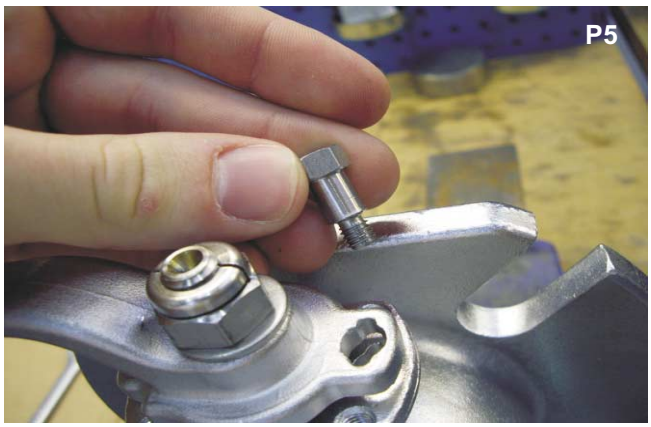
MM034 REV00-13.10.08

Remove the front ball seal from the valve body.

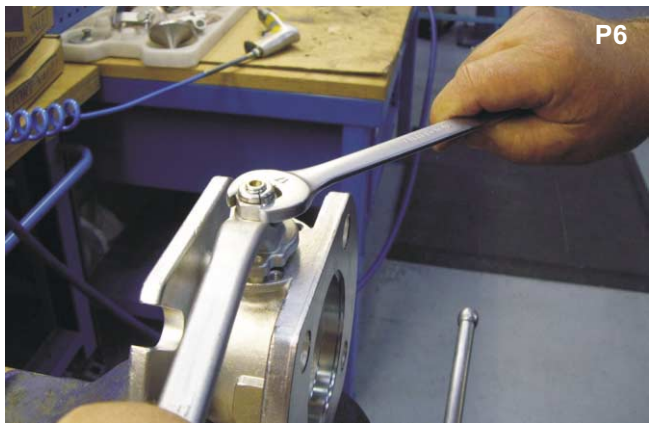
Using the ball valve handle, rotate the ball until the slot is inline with the axis of the valve. This will allow the ball to be carefully removed from the valve body.

Remove the bottom ball seal from the valve body.

Using a 10mm A/F wrench, remove the handle stop pin.



Completely remove the handle stop pin.



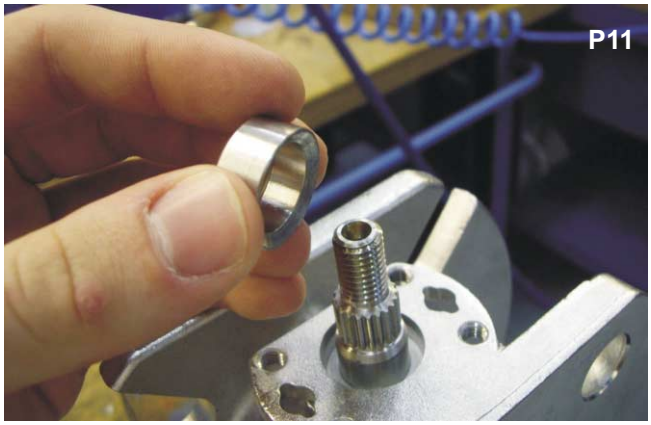
Holding the handle and using a 17mm A/F wrench remove the M10 self locking nut which holds the handle in place.

Remove the Lock nut.

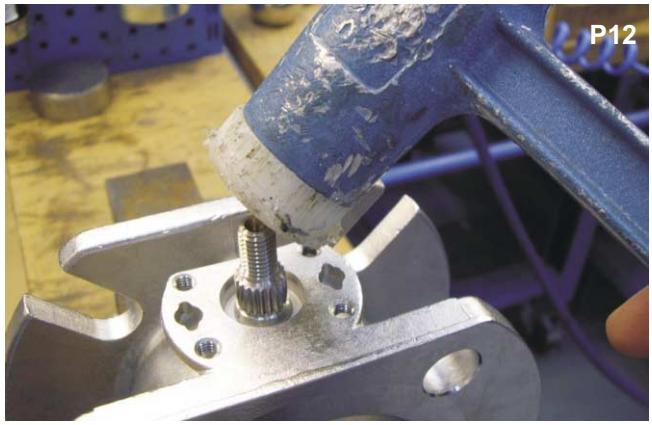
Remove the M10 plain washer.

Remove the valve handle.

Noting the orientation of the Belleville washers remove from spindle.

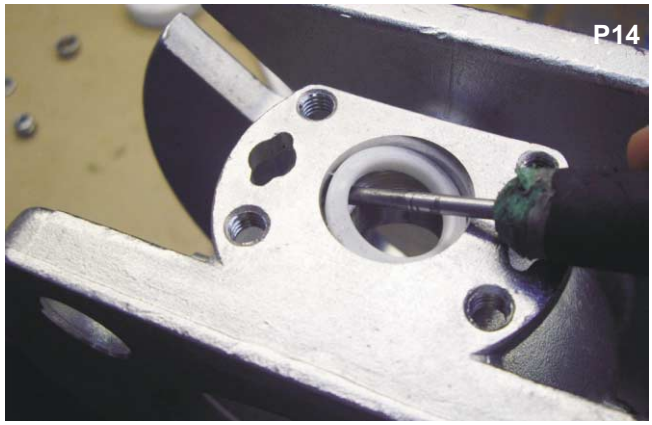


Remove the stuffing collar.

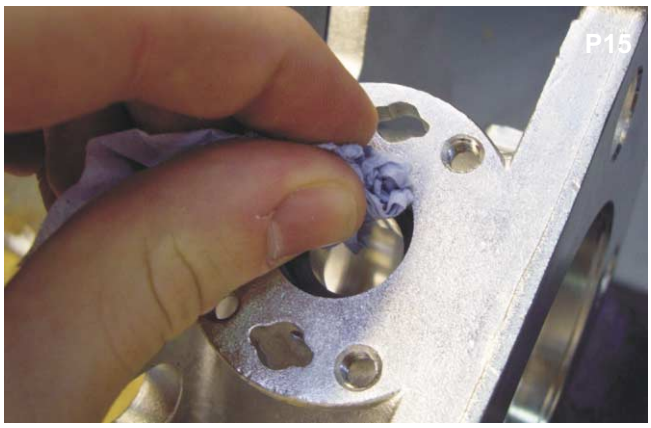


If needed carefully tap the spindle to free from bore.

Carefully remove the valve spindle.



Using a slot head screw driver carefully remove the top ptfe o-ring ensuring no marks are left on the spindle bore.



Wipe clean the valve inspecting for any marks or dirt on sealing faces.

FORT VALE™

Ball Valve Re-assembly.

2” FULL BORE
BLACKO BALL VALVE

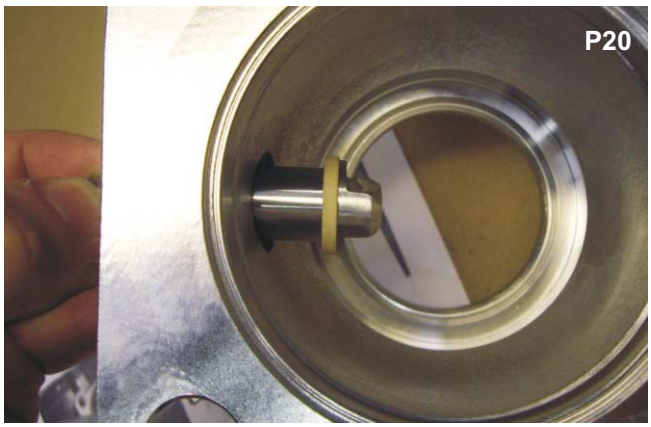
MM034 REV00-13.10.08

Examine the spindle housing for damage both in the top and bottom bore.

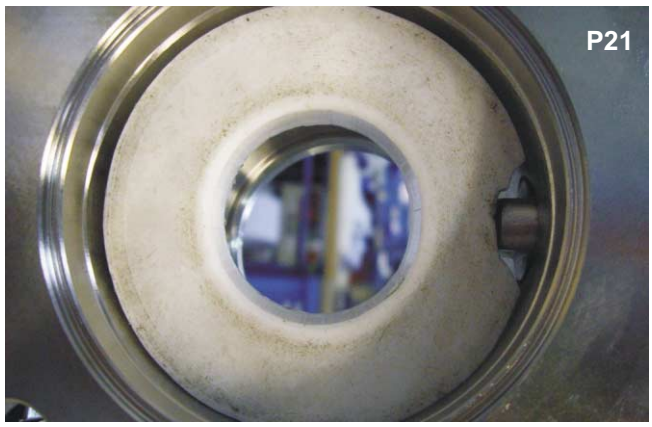
Examine the valve spindle for damage along the diameter where the seal will be located.

Check the ball for excessive wear, scratching or damage around the sealing areas at both ends of the ball.

Slide the bottom bearing over the valve spindle with the recess over the head of the spindle.

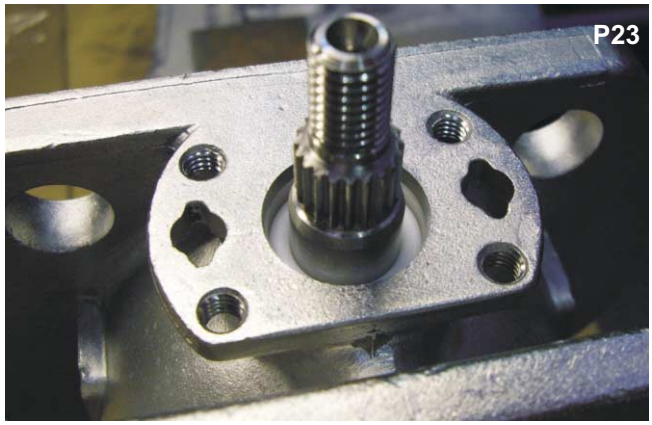


Insert the spindle into the housing from the inside of the valve body.

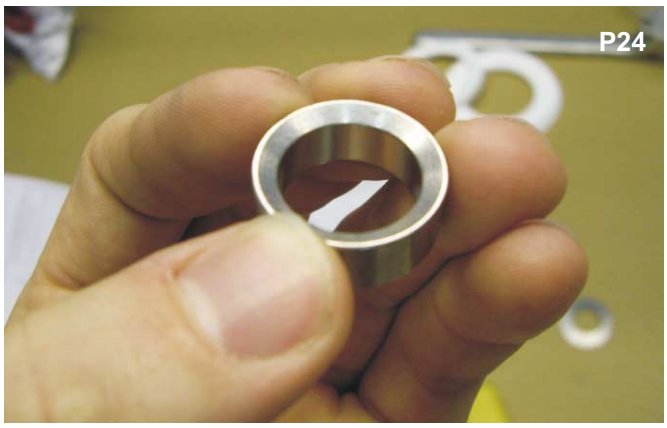


A tool like the on shown above (which is simply a 2.75” diameter piece of PTFE bar with a cut out for the spindle to locate on) must now be used to stop the spindle falling out.

Using a non metallic seal pusher, push the PTFE o ring until it is fully located.

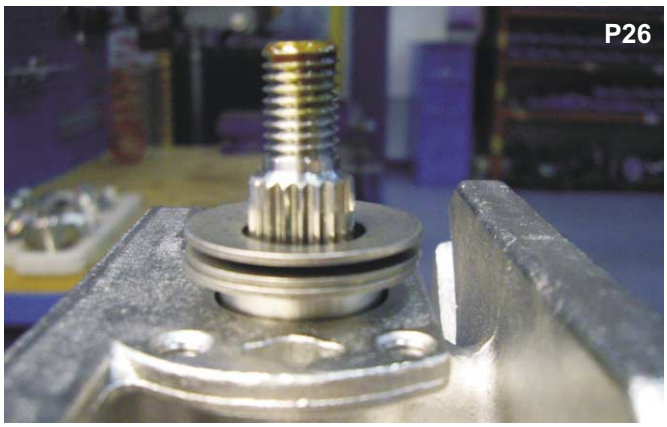


The o ring should now not be able to move any further down the spindle bore.

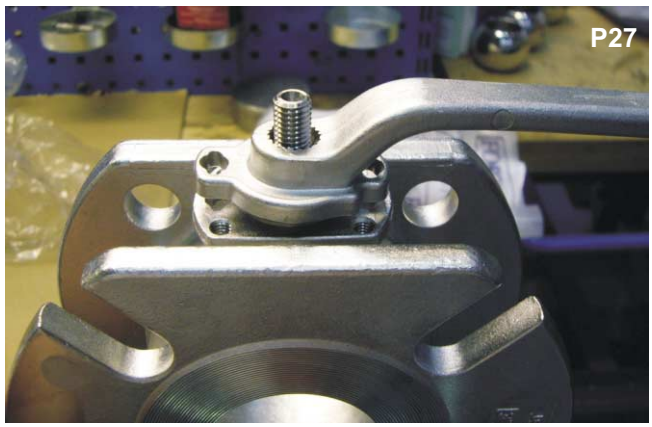


Ensure the correct orientation when inserting the stuffing collar. The bevelled edge must locate on the PTFE o ring.

Insert the stuffing collar into the spindle bore.



Place the belleville washers as shown onto the spindle. Note the washers are to be assembled back to back and not the same way. The first washer placed on the spindle must be dished side down.



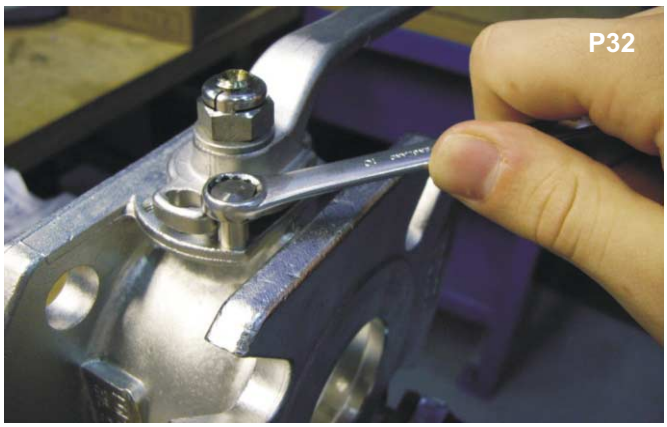
Replace the handle, ensuring the orientation of the spindle and handle. With the handle in the closed position the flats of the spindle should be in line with the body axis.

Apply rocol to the spindle thread.

Replace the M10 plain washer.

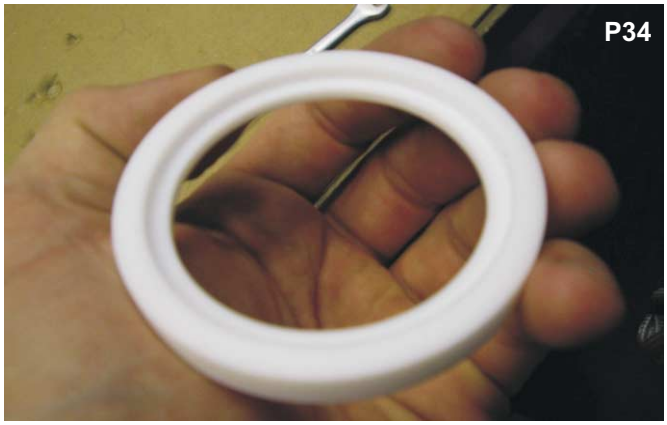
Replace the M10 self locking nut.

Using a 17mm A/F wrench tighten the lock nut.

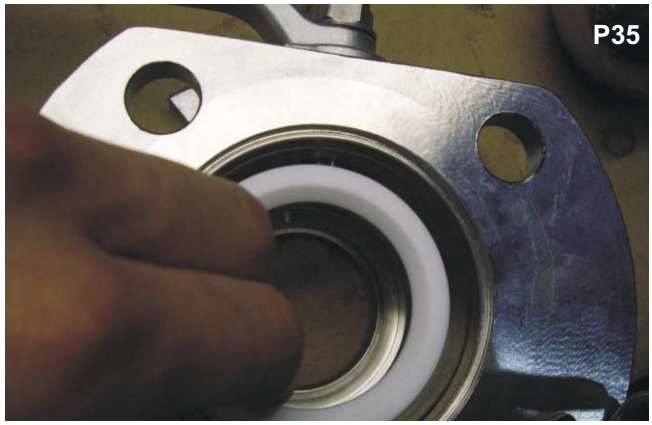


Replace the handle stop pin and tighten using a 10mm A/F wrench.

Ensure the valve body is clean and free from any damage.

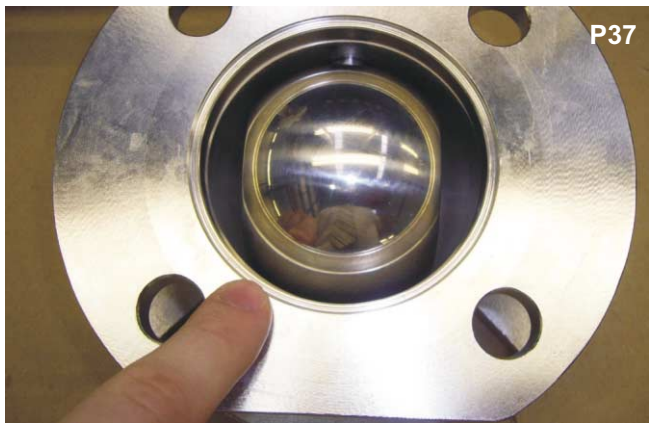


Ensure the PTFE back seal is in the correct orientation.



Fit the PTFE seal into the recess as shown.

Roll the ball into the ball valve body ensuring that the flats on the ball spindle are inline with the ball valve axis.



Ensure that the front seal groove is clean and free from any dirt.

Insert the front seal and ensure that the seal is seated correctly in the recess.