



# HIDRACAR S.A.

## TOOL FOR EXTRACTING THE BLADDER FROM PULSATION DAMPENERS

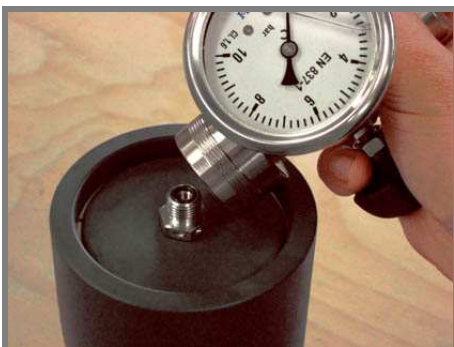
HIDRACAR PRODUCT REFERENCE: **DRB.A/B**



### Procedure for extracting the bladder from the dampener with the new tool:

1. Before starting the extraction of the bladder, and with the help of a *kit for charging, purging and verifying the pressure* (HIDRACAR product reference: **BV#A1TM**), all the remaining gas must be emptied from the interior of the dampener. Before proceeding to extract the bladder from the interior of the dampener there must be no pressure inside.

If the dampener is fitted with a Vg8 charging valve, as this valve is used only for low pressure, the dampener can be safely purged through the valve by pressing it with a pin.





2. Once empty of gas, unscrew the charging valve and push the top lid of the dampener down inside the body (with the help of a nylon hammer) to allow the removal of the retaining ring.



3. When the lid has been pushed in enough for extracting the retaining ring, take it out and proceed to mount the extractor.

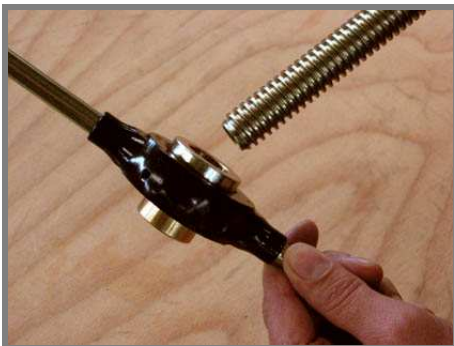
4. Screw the BSP 1/4" standard charging valve back into the lid. If fitted with a Vg8 charging valve, a BSP 1/4" male-male adapter would have to be screwed instead (or a BSP 1/4" standard charging valve if available).



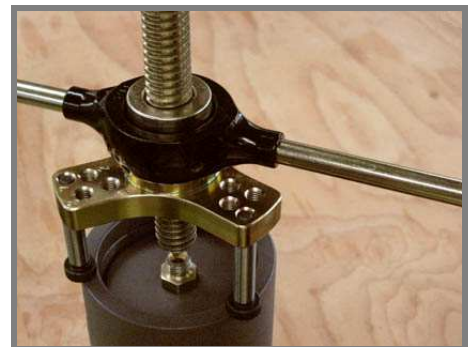
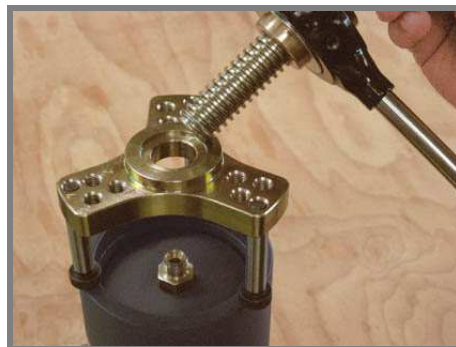
5. Screw the three legs of the tool in the appropriate holes of the tool star-shaped frame to fit the dampener size (follow the size guide engraved on the surface of the frames). There are two frame sizes. The small one is suitable for dampeners from U001 to U007; the big one is suitable for the rest, from U010 to U150.



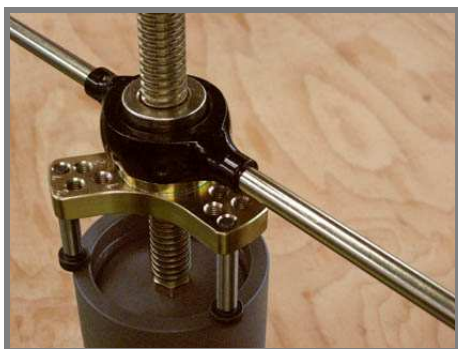
6. Assemble the tool's wrench.



7. Place the star-shaped tool frame (with the legs attached) on top of the dampener. The leg ends must rest onto the edges of the dampener's body.



8. Introduce the shaft of the tool wrench through the center hole of the tool frame and screw the threaded hole located at the end of the shaft into either the BSP ¼" standard charging valve or the BSP ¼" male-male adapter previously screwed into the top lid.



9. Turn the two arm wrench clockwise to extract the top cover out from the body of the dampener.



10. Once the top lid is loose, the bladder can be easily extracted. The dampener is fully dismantled.



The bladder together with the top lid and the dismantling tool.