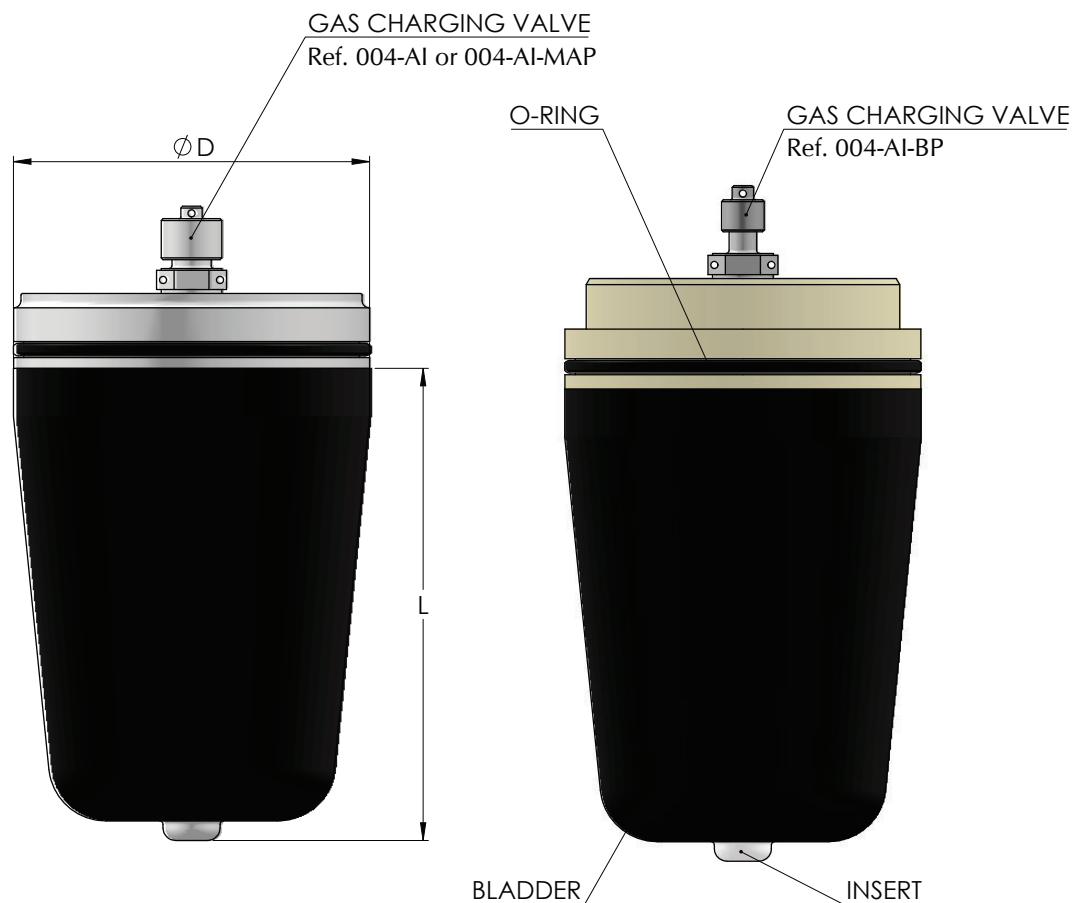


To perform maintenance on our bladder pulsation dampers, we recommend replacing the following parts: **Bladder + Insert** (ref. 1 + 2 in general drawings), **O-ring** (ref. 1.1 in general drawings) and the **charging valve** (ref. 3 in general drawings). These components are essential to ensure proper operation and longevity of the damper. Make sure to follow the dismantling instructions and use our tools to perform the maintenance safely and effectively (ref. DRB.A/B).

The **Charging valve** can have three different references:

- **004-AI-BP** (for charging valves with Vg8 connection)
- **004-AI** (for dampers with a design pressure below 140 barg)
- **004-AI-MAP** (for dampers with a design pressure equal to or greater than 140 barg)



| FOR DAMPENER MODEL | BLADDER REF.                  | L (mm) | D (mm) | O-RING REF. | AI/AP insert if design pressure ≥ (barg) |
|--------------------|-------------------------------|--------|--------|-------------|------------------------------------------|
| U000               | U000X-X or U000X (plastic)    | 28     | 45     | HC2129-X    | -                                        |
| U001               | U001X-X                       | 50     |        |             | 610                                      |
| U002               | U002X-X                       | 70     | 60     | HC2138-X    | 520                                      |
| U003               | U003X-X                       | 95     | 70     | HC2230-X    | 410                                      |
| U006               | U006X-X                       | 168    |        |             |                                          |
| U007               | U007X-X                       | 135    | 80     | HC2233-X    |                                          |
| U010               | U010X-X                       | 135    | 100    | HC2239-X    | 320                                      |
| U015               | U015X-X                       | 180    |        |             |                                          |
| U030               | U030X-X                       | 220    | 125    | HC2247-X    | 290                                      |
| U040               | U040X-X                       | 310    |        |             |                                          |
| U060               | U060X-X                       | 325    | 150    | HC2255-X    | 270                                      |
| U100               | U100X-X                       | 330    |        |             |                                          |
| U150               | U150X-X or U100X-TF (plastic) | 520    | 200    | HC2367-X    | 260                                      |
| U200               | U100X-TF (plastic)            |        |        |             | -                                        |
| U250               |                               |        |        | HC2375-X    | -                                        |
| U350               | U250X-X                       | 530    | 250    | HC2274-X    | -                                        |

#### REFERENCE CODE IDENTIFICATION

Rubber bladder X = N (NBR), R (NBR for low temperature), G (Hydrogenated NBR), B (IIR), E (EPDM), V (FKM), L (FKM for low temperature), F (Fluorinated FKM), H (Hypalon), A (FEPM)

Insert X = AI (SS 316L), AI/AP (SS 316L)(for high pressures), AI/BB (SS 316L)(for big bore connections), DU (duplex) or TF (PTFE)

| BLADDER REF. CODE | COMPOUND | HARDNESS ShA | MAX. WORKING TEMPERATURE (°C) | MIN. WORKING TEMPERATURE (°C) |
|-------------------|----------|--------------|-------------------------------|-------------------------------|
| N                 | NB5904   | 60           | 80                            | -15                           |
| R                 | NB4819   | 70           | 100                           | -50                           |
| G                 | HN4164   | 60           | 130                           | -15                           |
| B                 | IIR5389  | 55           | 100                           | -30                           |
| E                 | EP5403   | 60           | 130                           | -30                           |
| V                 | FK0970   | 60           | 150                           | -20                           |
| L                 | FK9060   | 65           | 150                           | -50                           |
| F                 | FK9193   | 70           | 150                           | -30                           |
| A                 | FK9386   | 65           | 180                           | -20                           |
| H                 | CS1794   | 65           | 130                           | -30                           |

THE MAX. WORKING TEMPERATURE CAN BE REDUCED DEPENDING ON THE LIQUID IN CONTACT



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DATA SHEET  
REPAIR KIT FOR BLADDER DAMPERS

REFERENCE:  
AV.RP.KIT.IN.DOC

REV:  
03

DATE:  
JUN-26

DRAWN  
P.BASCOMPTA

APPROVED  
M.CARCARÉ