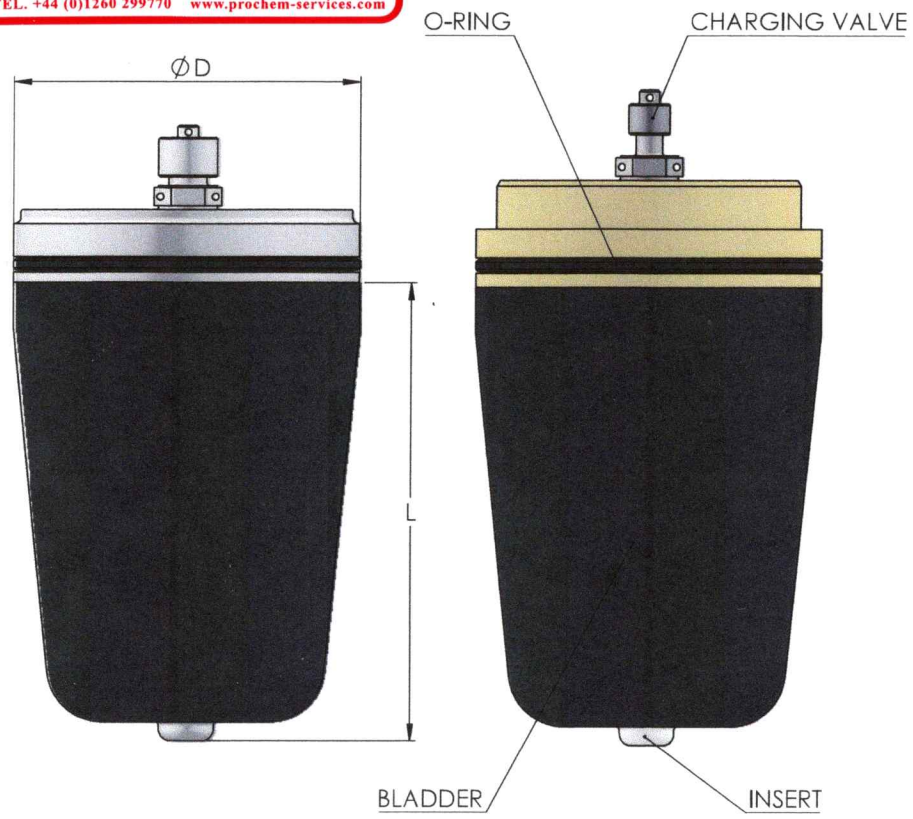
HIDRACAR S.A.	DATA SHEET REPAIR KIT FOR BLADDER DAMPENERS	REFERENCE: AV.RP.KIT.IN.DOC	REV: 02	DATE: DEC-25	DRAWN P.BASCOMPTA	APPROVED E.CORTINA

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 the appropiate 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)

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FOR DAMPENER MODEL	BLADDER REF.	AI/AP insert if design pressure ≥ (barg)	L (mm)	D (mm)	O-RING REF.	DIMENSIONS (mm)
U000	U000X-X or U000X (plastic)	-	28	45	HC2129-X	39,34x2,62
U001	U001X-X	610	50			
U002	U002X-X	520	70	60	HC2138-X	53,64x2,62
U003	U003X-X	410	95	70	HC2230-X	63,09x3,53
U006	U006X-X		168			
U007	U007X-X	320	135	80	HC2233-X	72,62x3,53
U010	U010X-X		135	100	HC2239-X	91,67x3,53
U015	U015X-X		180			
U030	U030X-X	290	220	125	HC2247-X	117,53x3,53
U040	U040X-X		310			
U060	U060X-X	270	325	150	HC2255-X	142,47x3,53
U100	U100X-X	260	330	200	HC2367-X	189,87x5,33
U150	U150X-X or U100X-PD (plastic)		520			
U200	U100X-PD (plastic)	-				
U250	U250X-X	-	530	250	HC2375-X	240,67x5,33
U350	U250X-X	-			HC2274-X	253,59x3,53

REFERENCE CODE IDENTIFICATION

Rubber bladder X = N (NBR), R (Cold NBR), G (Hydrogenated NBR), B (BUTYL), E (EPDM), V (FKM), L (Cold FKM), F (Fluoride FKM), H (Hypalon), A (Aflas)

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 (ºC)	MIN. WORKING TEMPERATURE (ºC)
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	-52
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