

**HIDRACAR S.A.****DATA SHEET**
S.S.MEDIUM & LOW PRESSURE BLADDER
PULSATION DAMPENERSREFERENCE:
AV.AI.MP-BP.IN.DOCREV:
28DATE:
SEP-25DRAWN
P.BASCOMPTAAPPROVED
E.CORTINA

NOTE: Those pulsation dampener ought to be filled with gas at 80% of the working pressure. It shall be done at the working temperature. Can be done with compressed air if it is compatible with the liquid pumped. Use a tire inflating air tool. If need to be charged with N2, use our valve Ref. 004-AI (1/4"BSP) and our charging kit Ref. BVXXXA1TM.

ATTENTION! THE SIZES WITH (*) ALWAYS MUST BE MOUNTED VERTICALLY (VALVE 3 ON TOP)

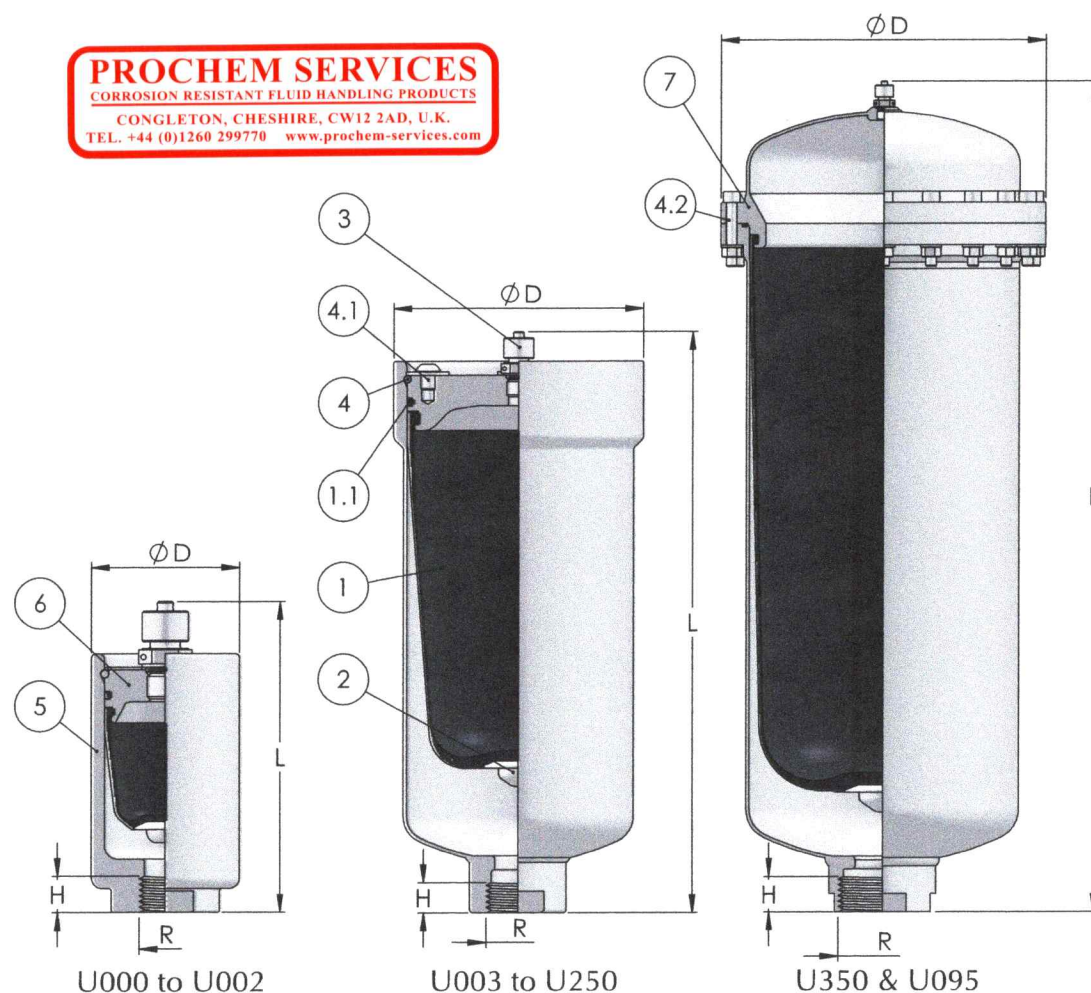
$$\text{Value of "K" : } \frac{\text{Maxi. Pressure}}{\text{Filling gas Pressure}} \leq K \text{ (@Constant Temp.)}$$

TOLERANCES: External dimentions: $\pm 3\%$ Volume: $\pm 2.5\%$ Wieght: $\pm 5\%$ **PROCHEM SERVICES**

CORROSION RESISTANT FLUID HANDLING PRODUCTS

CONGLETON, CHESHIRE, CW12 2AD, U.K.

TEL. +44 (0)1260 299770 www.prochem-services.com



U000 to U002

U003 to U250

U350 & U095

Wall thickness acc. to EN14359 code
Hydrostatic test pressure @ 1.43 x Design pressure @ 20°C

PULSATION DAMPENER MODEL	VOLUME (liters)	DESIGN PRESSURE (bar-g @50°C)	D (mm)	L (mm)	R (BSP)	H (mm)	WEIGHT (kg)	K VALUE
U000A26X1-AI	0.04	260	55	90	3/8"	14	0.8	2.5
U001A26X1-AI	0.09			117			1.0	
U002A18X1-AI	0.18	180	70	141	1/2"	15	1.8	3.0
U003A09X1-AI	0.36	90	84.5	176			2.1	
U006A09X1-AI	0.65			256	2.6	3.5		
U010A07X1-AI	0.95	70	113	229	3/4"	18	4.9	3.0
*U015A07X1-AI	1.50			276			5.2	
U030A05X1-AI	2.60	50	140	322	1"	27	6.0	5.0
*U040A05X1-AI	3.80			429			6.5	
*U060A04X1-AI	5.60	40	168	437	1-1/2"	30	10.0	2.0
*U095A04X1-AI	9.50		198	665			12.5	
*U100A03X1-AI	10.40	30	220	454	2"	30	15.0	4.0
*U150A03X1-AI	15.00			664			19.2	5.0
*U250A02X1-AI	27.00	20	271	708	2-1/2"	30	26.0	4.0
*U350A02X1-AI	34.50		305	778			28.5	2.2

REFERENCE CODE IDENTIFICATION

Rubber bladder X = N (NBR), B (BUTYL), E (EPDM) or V (FKM)

Rubbers Max. Working Temperatures (°C)

	N	B	E	V
	+80 -15	+100 -30	+130 -30	+150 -20

Working Temperatures Versus Working Pressures

For a temperature of 80°C correspond design pressure x 0.87

" " " " 100°C " " " x 0.82

" " " " 130°C " " " x 0.78

" " " " 150°C " " " x 0.75

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

Nº	ITEM	QT.	MATERIAL
1	BLADDER	1	NBR, BUTYL, EPDM & FKM
1.1	O-RING	1	NBR, BUTYL, EPDM & FKM
2	INSERT	1	AISI 316L
3	INFLATING N2 VALVE	1	AISI 316L (1/4" BSP)
4	RETAINING RING	1	AISI 316
4.1	BOLTS	1 to 3	ISO7380 A4-70
4.2	BOLTS + NUTS + GASKET	12 to 20	DIN 912 & 934 A4-70
5	BODY	1	AISI 316L
6	GAS COVER	1	AISI 316L
7	UPPER BODY	1	AISI 316L

FOR HIGHER PRESSURES, SIZES, MATERIALS AND THREADED CONNECTIONS, PLEASE CONSULT