



HIDRACAR S.A.

DATA SHEET

SS. MEDIUM AND LOW PRESSURE "IN LINE" & BIG BORE, BLADDER PULSATION DAMPENERS

REFERENCE:

AV.AI.MP-BP.DP.BB.IN.DOC

REV:

06

DATE:

SEP-24

DRAWN

P.BASCOMPTA

APPROVED

E.CORTINA

NOTE: Those pulsation dampener ought to be filed 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)

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

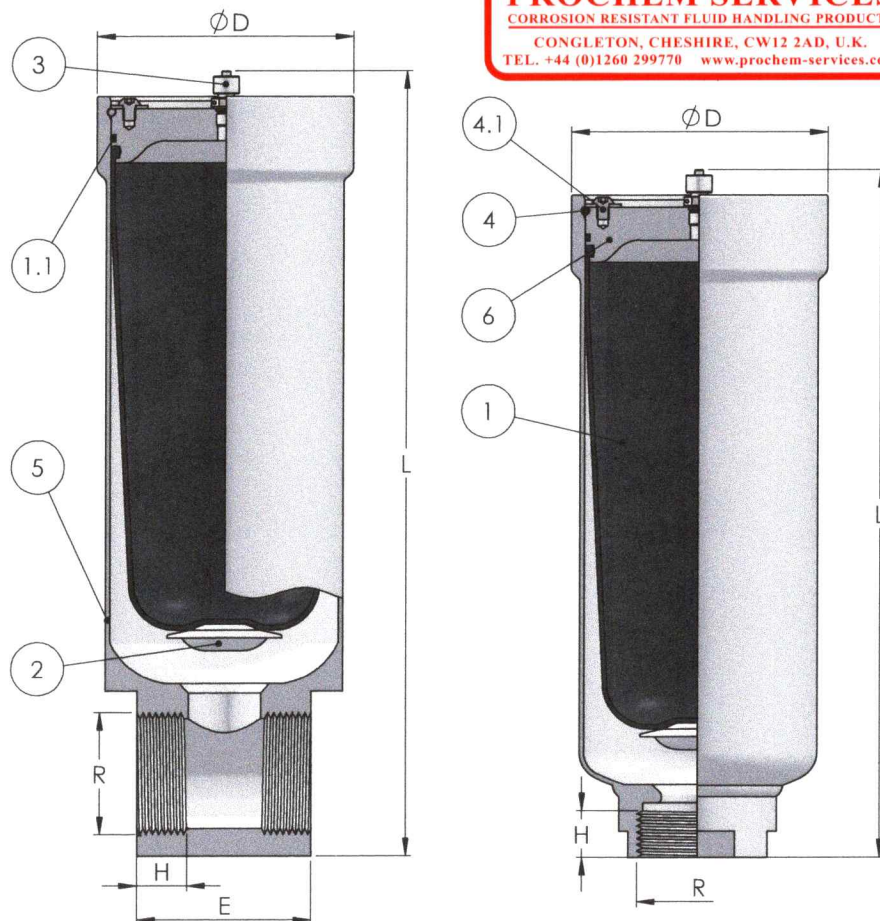
TOLERANCES: External dimentions: $\pm 3\%$ Volume: $\pm 2.5\%$ Weight: $\pm 5\%$

PROCHEM SERVICES

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

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IN LINE TWO CONNECTION PORTS

BIG BORE

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

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

PULSATION DAMPENER MODEL	VOLUME (liters)	DESIGN PRESSURE (bar-g @ 50°C)	D (mm)	E (mm)	L (mm)		R (BSP)	H (mm)	WEIGHT (kg)		K VALUE
					TWO PORTS	BIG BORE			TWO PORTS	BIG BORE	
U007A05X#-AI/X	0.65	50	88	66	231	-	1"	22	3.5	-	3.5
U010A04X#-AI/X	0.95	40	113	81	251	220	1-1/2"	24	6.0	4.8	3.0
*U015A04X#-AI/X	1.50				298	267			6.6	5.1	3.5
U030A03X#-AI/X	2.60	30	140	100	346	310	2"	26	11.0	6.4	
*U040A03X#-AI/X	3.80				449	413			11.5	7.2	
*U060A04X#-AI/X	5.60	40	167	120	506	442	2-1/2"	33	19.5	12.0	4.0
*U100A03X#-AI/X	10.40	30	217	155	547	445	38.0		18.0		
*U150A03X#-AI/X	15.00				757	655	4"		42.0	22.0	4.5
*U250A02X#-AI/X	27.00	20	270	212	780	754			63.0	31.0	4.0
*U350A02X#-AI/X	34.50		302		860	766					2.5

REFERENCE CODE IDENTIFICATION

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

Connection ports # = 1 (One connection port) or 2 (Two connection ports)

Special connection X = BB (Big Bore connection)

Rubbers Max. Working Temperatures (°C)

N	B	E	*V
+80 -15	+100 -30	+130 -30	+135 -20

Working Temperatures Versus Working Pressures

For a temperature of 80°C correspond design pressure x 0.87
 " " " " 100°C " " " x 0.82
 " " " " 135°C " " " x 0.76

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	*PVDF or Titanium
3	INFLATING N2 VALVE	1	AISI 316L (1/4" BSP)
4	RETAINING RING	1	AISI 316
4.1	BOLTS	4	DIN 912 & 934 A4-70
5	BODY	1	AISI 316L
6	COVER	1	AISI 316L