



HIDRACAR S.A.
Pol.Ind.Bufalvent C/Ramon Farguell 73-77
08243 Manresa (Barcelona)- Spain

T. +34 938 330 252
hidracar@hidracar.com
www.hidracar.com

DATA SHEET
S.S.MEDIUM BLADDER PULSATION
DAMPENERS

REFERENCE:
AV.AI.MP.IN.DOC

REV:
24

DATE:
SEP-25

DRAWN
P.BASCOMPTA

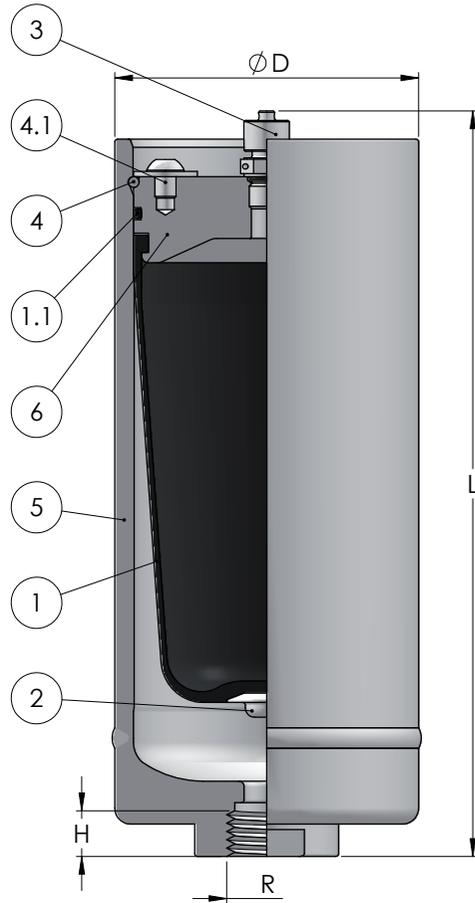
APPROVED
E.CORTINA

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: ±3% Volume: ±2.5% Weight: ±5%



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		70	141			1.8	
U003A18X1-AI	0.36	180	85	184	1/2"	16	3.6	3.0
U006A18X1-AI	0.65			264			5.2	
U010A11X1-AI	0.95		110	114			234	
*U015A11X1-AI	1.50	278			6.8			
U030A11X1-AI	2.60	140		323	10.5	1"	27	12.2
*U040A11X1-AI	3.80	426	12.2					
*U060A12X1-AI	5.60	120	167	451	1-1/2"			35
*U100A10X1-AI	10.40	100	217	474	2"	46.0		
*U150A10X1-AI	15.00			684		52.5		
*U250A10X1-AI	27.00		271	731	2-1/2"	70.0	4.0	

REFERENCE CODE IDENTIFICATION

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

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

Rubbers Max. Working Temperatures (°C)

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

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

Nº	ITEM	QT.	MATERIAL
1	BLADDER	1	NBR, EPDM, FKM & BUTYL
1.1	O-RING	1	NBR, EPDM, FKM & BUTYL
2	INSERT	1	AISI 316L
3	INFLATING N2 VALVE	1	AISI 316L (1/4" BSP)
4	RETAINING RING	1	AISI 316L
4.1	BOLT	1 to 4	ISO7380 A4-70
5	BODY	1	AISI 316L
6	COVER	1	AISI 316L

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