



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

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

DATA SHEET  
"IN LINE" BLADDER & BIG BORE  
PULSATION DAMPENERS

REFERENCE:  
AV.PP.BP.DP.BB.IN.DOC

REV: 05  
DATE: DEC-25

DRAWN  
P.BASCOMPTA

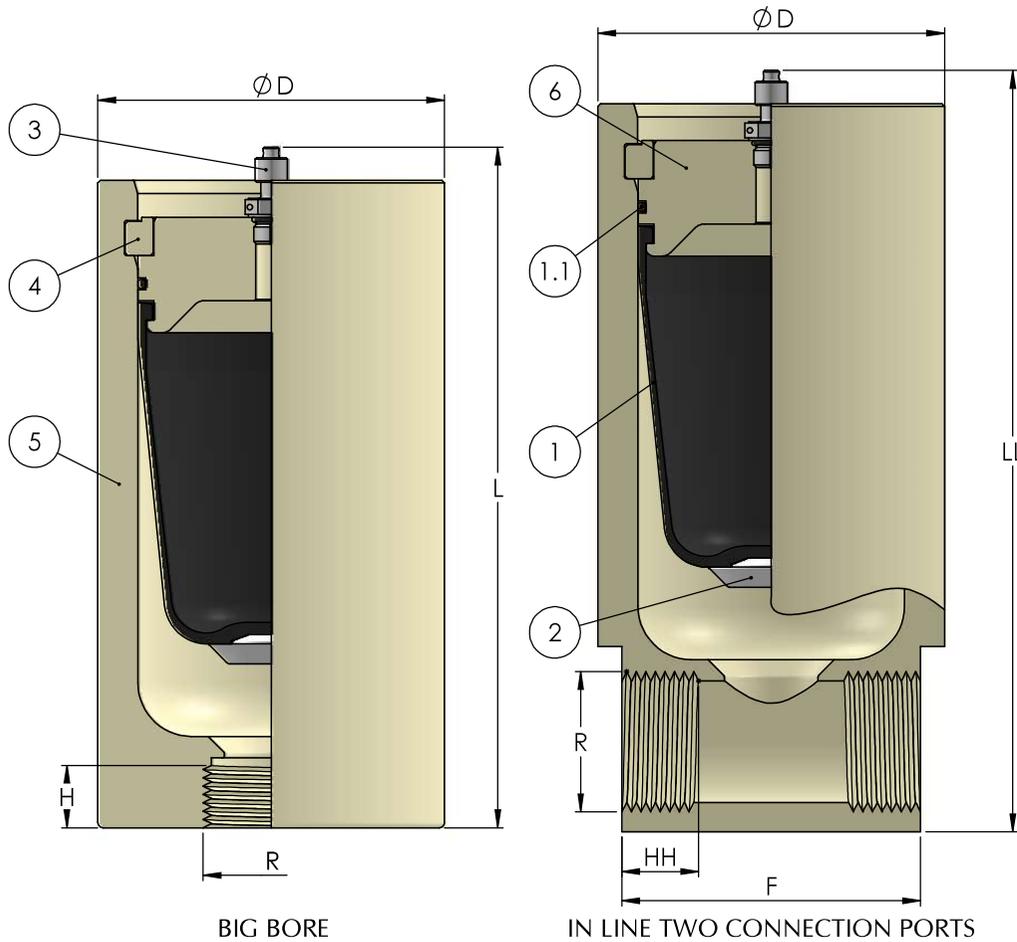
APPROVED  
E.CORTINA

**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%



BIG BORE

IN LINE TWO CONNECTION PORTS

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

PULSATION DAMPENER MODEL	VOLUME (liters)	D (mm)	F (mm)	H (mm)	HH (mm)	L (mm)	LL (mm)	R (BSP)	WEIGHT (kg)		K VALUE
									TWO PORTS	BIG BORE	
U002X01X#-PP/X	0.18	80	73.4	-	18	-	150	1/2"	0.60	-	2.5
U003X01X#-PP/X	0.36	90	80.6	-	20	-	180	3/4"	0.78	-	3.0
U010X01X#-PP/X	0.95	130	112	25	28	241	271	1-1/2"	2.0	-	3.5
*U015X01X#-PP/X	1.50			23		285	315		2.3	2.2	
U030X01X#-PP/X	2.60	160	132	30	27	323	362	2"	4.2	3.8	4.0
*U040X01X#-PP/X	3.80					420	459		5.1	4.7	
*U060X01X#-PP/X	5.60	198	174.5	36	33	468	523	2-1/2"	8.5	7.7	4.0
*U100X01X#-PP/X	10.4	250	221	48	40	490	578	4"	16.4	12	

**REFERENCE CODE IDENTIFICATION**

Charging valve X = A (for a 1/4" BSP valve) or B (for a Vg8 valve)  
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)

**MAX. WORKING PRESSURE FOR ALL SIZES: 10 bar-g**

**MINIMUM SAFETY FACTOR: 5:1** (minimum rupture pressure: 50 bar-g)

**WORKING LIMITS TEMPERATURES(°C): 0°C to +60°C**

**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	PTFE
3	FILLING AIR VALVE	1	AISI 316L (1/4" BSP or Vg8)
4	RETAINING RING	1	Polypropylene or AISI 316
5	BODY	1	Polypropylene
6	COVER	1	Polypropylene

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