

Wall thickness according to AD-2000 code

FOR HIGHER PRESSURES, OTHER SIZES, MATERIALS AND CONNECTION THREAD GAUGES, PLEASE CONSULT



- A02 ≡ 20 bar
- A03 ≡ 30 bar
- A04 ≡ 40 bar
- A05 ≡ 50 bar
- A18 ≡ 180 bar
- A26 ≡ 260 bar

ORDER REFERENCE CODE EXAMPLE: U030 A03 V 1 AI

Capacity: 2.6 litres
 A03 ≡ 30 bar
 V = FKM rubber bladder
 1" standard connection
 Body and insert material: AISI 316L

Working temperature versus Working pressure

A working temperature of 80°C lowers the working pressure x 0.87
 " " " " 130°C " " " " x 0.78
 " " " " 200°C " " " " x 0.68

THE MAX. TEMPERATURE CAN GET REDUCED DEPENDING ON THE PROCESS LIQUID

These pulsation dampeners should be filled with gas at 80% of the working pressure and at the working temperature in order to stabilize the flow.

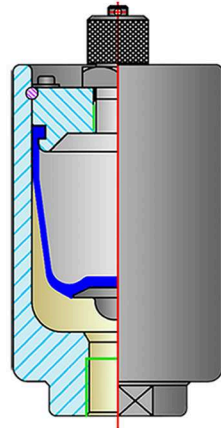
Standard bladder rubbers:
 N= NBR E= EPDM V= FKM
 (other rubbers: Butyl, Hypalon, HNBR, etc...)

Rubbers maximum working temperatures (°C):

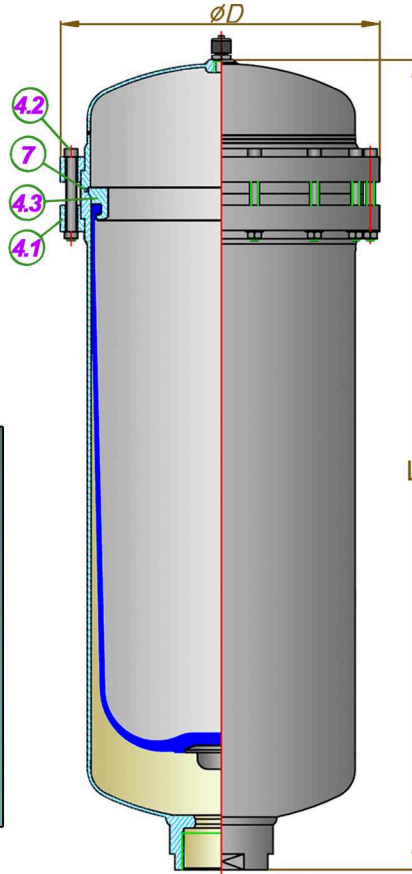
N	E	V
+80 / -15	+130 / -30	+200 / -20

$$\text{Value of "K"} = \frac{\text{Max. pressure}}{\text{Gas filling pressure}} \leq K \text{ (@ constant temperature)}$$

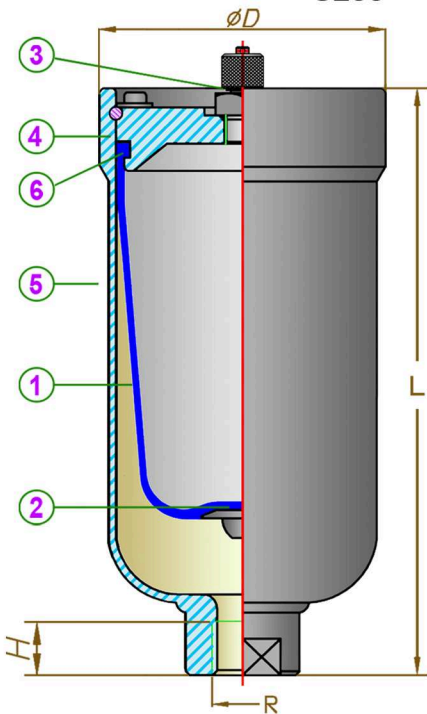
PULSATION DAMPENER MODEL	VOLUME (litres)	DESIGN PRESSURE (bar-g @ 20°C)	D (mm)	L (mm)	R (BSP)	H (mm)	WEIGHT (kg)	K VALUE
U001	0.09	260	55	100	3/8"	14	1.0	2.5
U002	0.18	180	70	118	1/2"	14	1.8	3
U003	0.36		85	161		16	3.6	
U007	0.65	50	90	205	3/4"	20	2.5	3.5
U010	0.95	40	110	200		25	4.3	3
U015	1.50		110	245		25	4.6	
U030	2.60	30	140	295	1"	27	5.3	5
U040	3.80		140	390			5.7	
U060	5.60	40	170	414	1 1/2"	30	10.0	4
U100	10.4	30	220	442	2"		14.5	
U150	15.0		220	625			18.5	
U250	25.0	20	270	691	2 1/2"	30	26.0	4
U350	35.0		270	797			28.5	
7	"O" RING		1	NBR, EPDM, FKM and others				
6	GAS LID		1	AISI 316L				
5	BODY		1	AISI 316L				
4.3	RETAINING RING		1	St-52Elec. Nickel plated				
4.2	BOLTS & NUTS		14	DIN 912 & 934 A4-70				
4.1	RETAINING RING		2	St-52Elec. Nickel plated				
4	RETAINING RING		1	DIN 17224 (AISI 316L)				
3	GAS CHARGING VALVE		1	AISI 316L (1/4" BSP)				
2	INSERT (BUTTON)		1	AISI 316L				
1	BLADDER		1	NBR, EPDM, FKM and others				
No.	DENOMINATION	QTY.	MATERIAL					



U001 to U003



U350



H = MAX. LENGTH OF THE THREADED CONNECTION

TOLERANCES: External dimensions: ±3% Volume: ±2.5% Weight: ±5%

ATTENTION: MOUNT THE DAMPENER ALWAYS UPRIGHT (w/ #3 VALVE ON TOP)

IMPORTANT: The pre-charge with nitrogen gas or compressed air must be performed slowly and with the help of our charging tool (ref. BV#A1TM)

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Customer _____ Customer ref. _____
 Title **MEDIUM & LOW PRESSURE STAINLESS STEEL BLADDER PULSATION DAMPENERS (standard units)**

Replaces drawing AV.AI.MP-BP.IN.DOC. (Rev. 19) Drawn by E.Ponsa Approved by M. Carcaré
 Drawing AV.AI.MP-BP.IN.DOC. Rev. **20** Date Dec 2015 Scale N/A