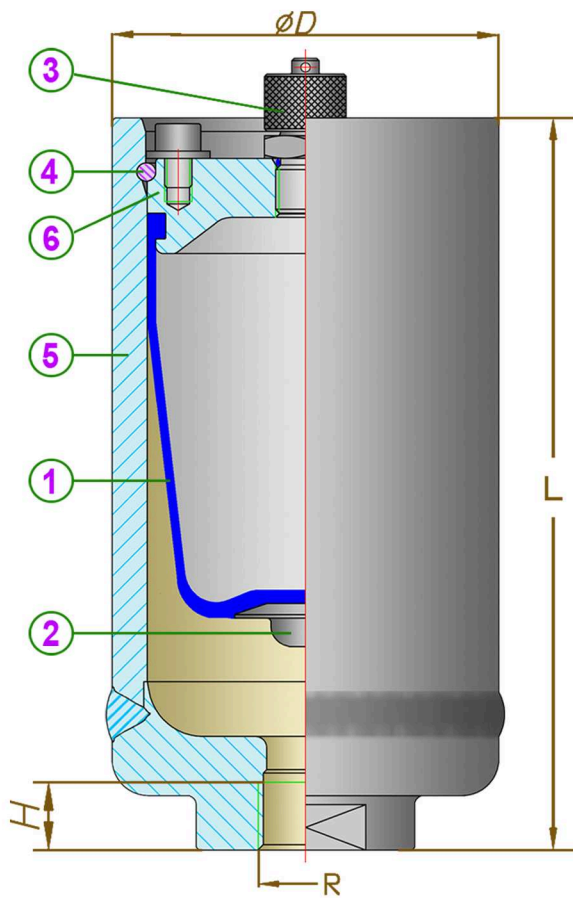


U003 to U250



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

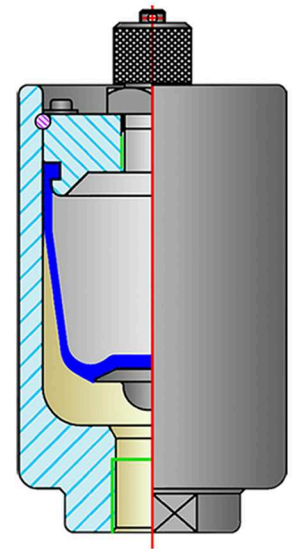
Rubbers maximum working temperatures (°C):

N	E	V
+80 / -15	+130 / -30	+170 / -10

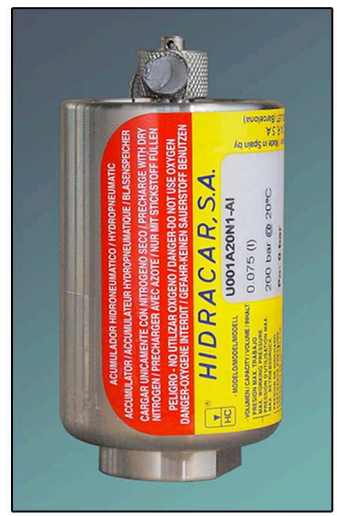
ORDER REFERENCE CODE EXAMPLE: U003 A18 V 1 AI

A20 ≡ 200 bar
 A18 ≡ 180 bar
 A12 ≡ 120 bar
 A11 ≡ 110 bar
 A10 ≡ 100 bar

Capacity: 0.36 litres
 A18 ≡ 180 bar
 V = FKM rubber bladder
 1/2" standard connection
 Body and insert material: AISI 316L



U001 & U002



Working temperature versus Working pressure

A working temperature of 80°C lowers the working pressure x 0.87
 " " " " 130°C " " " " x 0.78
 " " " " 170°C " " " " x 0.72

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.

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

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	200	55	100	3/8"	14	1.0	2.5
U002	0.18	180	70	118	1/2"	16	1.8	
U003	0.36	180	85	161	1/2"	16	3.6	3
U007	0.65	120	90	205	1/2"	20	3.8	3.5
U010	0.95	110	112	200	3/4"	25	6.0	3
U015	1.50			245			6.8	
U030	2.60	100	140	295	1"	27	10.5	3.5
U040	3.80			386			12.2	
U060	5.60	120	170	414	1 1/2"	35	24.0	5
U100	10.4	100	224	442	2"		46.0	
U150	15.0			625		52.5		
U250	25.0	100	270	691	2 1/2"	70.0	4	
6	GAS LID		1	AISI 316L				
5	BODY		1	AISI 316L				
4	RETAINING RING		1 / 2	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				

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 PRESSURE STAINLESS STEEL BLADDER PULSATION DAMPENERS (standard units)**

Replaces drawing AV.AI.MP.IN.DOC. (Rev. 15) Drawing AV.AI.MP.IN.DOC.

Drawn by E.Ponsa Rev. 16 Approved by M. Carcaré Date Nov 2014 Scale N/A