

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

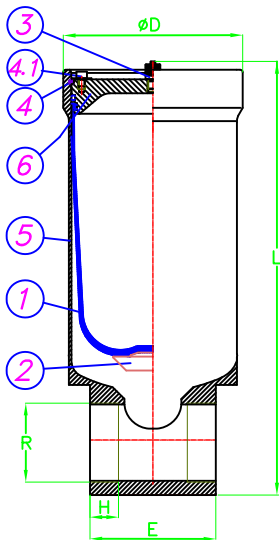
REFERENCE EXAMPLE : U030 A03 V 2 AI

- A02≡20bar
- A03≡30bar
- A04≡40bar
- A05≡50bar

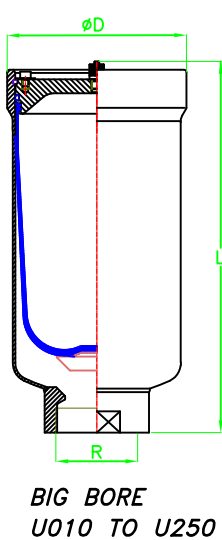
Capacity: 2.6 litres
 V= FKM Rubber Bladder
 2"Two Standard Connection ports
 Body & insert material: AISI 316L

REFERENCE EXAMPLE : U030 A03 V 1 AI BB

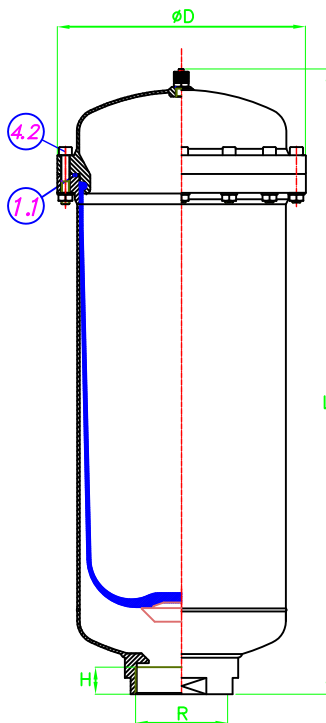
2"One Standard Connection ports
 Big Bore connection port



IN LINE TWO CONNECTION PORTS



BIG BORE
U010 TO U250



BIG BORE (U350)

H = MAXI. LENGTH OF THREAD CONNECTION

Wall thickness acc. to AD-2000 code

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

Hydrostatic test pressure @ 1.5 * Design pressure @ 20°C

| PULSATION DAMPER Reference | VOLUME (litres) | DESIGN PRESSURE (bar-g @20°C) | D (mm) | E (mm) | L (mm) | | R (BSP) | H (mm) | WEIGHT (Kg) | | K VALUE |
|----------------------------|-----------------|-------------------------------|--------|--------|-----------|----------|---------|--------|-------------|----------|---------|
| | | | | | TWO PORTS | BIG BORE | | | TWO PORTS | BIG BORE | |
| U007 | 0.65 | 50 | 88 | 66 | 231 | na | 1" | 22 | 3.5 | na | 3.5 |
| U010 | 0.95 | 40 | 113 | 81 | 251 | 220 | 1-1/2" | 24 | 6 | 4.4 | 3.0 |
| *U015 | 1.50 | | | | 298 | 267 | | | 4.5 | 4.6 | |
| U030 | 2.60 | 30 | 140 | 100 | 346 | 310 | 2" | 26 | 11 | 6.4 | 3.5 |
| *U040 | 3.80 | | | | 449 | 413 | | | 11.5 | 7.2 | |
| *U060 | 5.60 | 40 | 167 | 120 | 506 | 442 | 2-1/2" | 33 | 19.5 | 12 | 4.5 |
| *U100 | 10.40 | | | | 547 | 445 | | | 38 | 18 | |
| *U150 | 15.00 | 30 | 217 | 155 | 757 | 655 | 4" | 33 | 42 | 22 | 4.5 |
| *U250 | 25.00 | | | | 780 | 754 | | | 63 | 31 | |
| *U350 | 35.00 | 20 | 270 | 212 | 860 | 766 | 4" | 33 | 63 | 31 | 4.0 |
| | | | | | 302 | 266 | | | 63 | 31 | |

Standard Bladder Rubbers: N=NBR, B=BUTYL, E=EPDM, V=FKM

(Other Rubbers: Neoprene, Hypalon, HNBR, etc.)

Rubbers Max. Working Temperatures (°C)

| N | B | E | V |
|-----|------|------|--------|
| +80 | +100 | +130 | +135 Δ |
| -15 | -25 | -25 | -25 |

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

TOLERANCES:
 External dimensions: ± 2mm
 Volume: ± 2.5% Weight: ± 5%

| | | | |
|-----|--------------------|-----|------------------------|
| 6 | COVER | 1 | AISI 316L |
| 5 | BODY | 1 | AISI 316L |
| 4.2 | BOLTS & NUTS M10 | 20 | DIN 912 & 934 A4-70 |
| 4.1 | BOLTS | 3 | DIN 912 & 934 A4-70 |
| 4 | RETAINING RING | 1 | DIN17224 (AISI 316) |
| 3 | INFLATING N2 VALVE | 1 | AISI 316L (1/4" BSP) |
| 2 | INSERT | 1 | PVDF Δ |
| 1.1 | "O" RING | 1 | NBR, BUTYL, EPDM & FKM |
| 1 | BLADDER | 1 | NBR, BUTYL, EPDM & FKM |
| No | DENOMINATION | QT. | MATERIALS |

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

*ATTENTION! ALWAYS MUST BE MOUNTED VERTICALITY(VALUE 3 ON TOP)

Those Pulsation Dampeners ought to be filled with gas at a value of 0.80x the pressure to stabilize and that at the working temperature

NOTE: The precharge with gas or air must be done slowly and with our charging tool Ref. BV(***)A1TM

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Customer

Customer Ref.

Replaced Drg.N°

Drawn

Approved

Title SPECIAL S.S.MEDIUM AND LOW PRESSURE

Drg.No

Rev.

Date Scale

"IN LINE" & BIG BORE, BLADDER PULSATION DAMPERS

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

05

July21 none