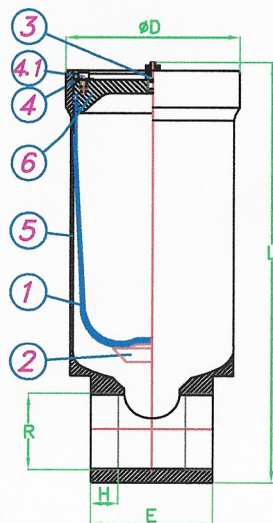


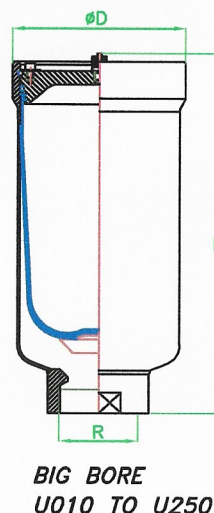
FOR HIGHER PRESSURES,TEMPERATURES, SIZES, AND MATERIALS AND THREADED CONNECTIONS, PLEASE CONSULT

REFERENCE EXAMPLE : U030 A03 V 2 AI  
Capacity: 2.6 litres  
A03=30bar  
V= FKM Rubber Bladder  
2"Two Standard Connection ports  
Body & Insert material: AISI 316L

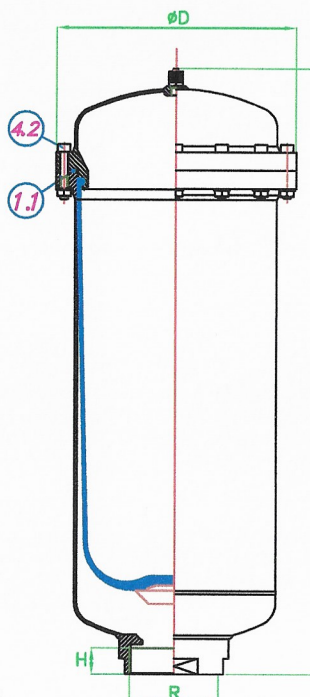
REFERENCE EXAMPLE : U030 A03 V 1 AI BB  
2"One Standard Connection ports  
Big Bore connection port



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

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

| PULSATION<br>DAMPER<br>Reference | VOLUME<br>(litres) | DESIGN<br>PRESSURE<br>(bar-g @20°C) | D<br>(mm) | E<br>(mm) | L (mm)    |          | R<br>(BSP) | H<br>(mm) | WEIGHT (Kg) |          | K<br>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      | 3.5        |
| U030                             | 2.60               | 30                                  | 140       | 100       | 346       | 310      | 2"         | 26        | 11          | 6.4      |            |
| *U040                            | 3.80               |                                     |           |           | 449       | 413      |            |           | 11.5        | 7.2      | 4.5        |
| *U060                            | 5.60               | 40                                  | 167       | 120       | 506       | 442      | 2-1/2"     |           | 19.5        | 12       |            |
| *U100                            | 10.40              | 30                                  | 217       | 155       | 547       | 445      |            | 33        | 38          | 18       | 4.0        |
| *U150                            | 15.00              |                                     |           |           | 757       | 655      | 4"         |           | 42          | 22       | 4.5        |
| *U250                            | 25.00              | 20                                  | 270       | 212       | 780       | 754      |            |           | 63          | 31       | 4.0        |
| *U350                            | 35.00              |                                     | 302       |           | 860       | 766      |            |           |             |          | 2.5        |

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

| (Other Rubbers: Neoprene, Hypalon, HNBR, etc.) | N          | B           | E           | V             |
|------------------------------------------------|------------|-------------|-------------|---------------|
| Rubbers Max. Working Temperatures (°C)         | +80<br>-15 | +100<br>-25 | +130<br>-25 | +135 Δ<br>-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 N <sub>2</sub> 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(VALVE 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



HIDRACAR SA

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TEL. +44 (0)1260 299770 www.prochem-services.com

Customer

Customer Ref.

Replaced Drg.N°

Drawn  
K.Ventura

Approved  
M.Carcaré

Title SPECIAL S.S.MEDIUM AND LOW PRESSURE  
"IN LINE" & BIG BORE, BLADDER PULSATION DAMPERS

Drg.No  
AV.AI.MP-BP.DP.BB.IN.DOC

Rev.  
05

Date  
July21

Scale  
none