



HIDRACAR S.A.

DATA SHEET
PULSATION DAMPENER WITH SS
BELLOWS & BODY

REFERENCE:
AFI.AI.BP.IN.DOC

REV:
04

DATE:
SEP-24

DRAWN
P.BASCOMPTA

APPROVED
E.CORTINA

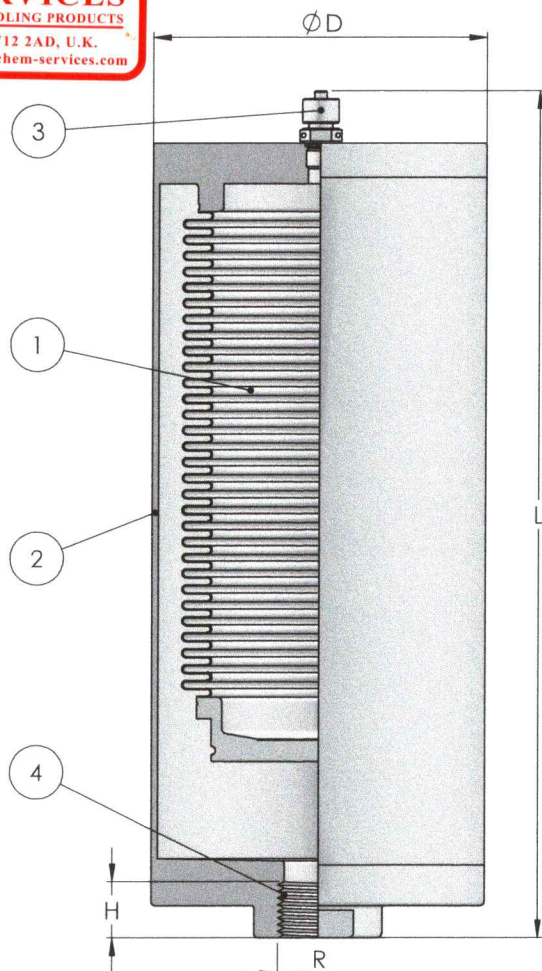
NOTE: Those pulsation dampener ought to be filled with gas at 90% of the working pressure. It shall be done at the working temperature. Can be done with compressed air if it is compatible with the liquid pumped. Use a tire inflating air tool. If need to be charged with N2, use our valve Ref. 004-AI (1/4"BSP) and our charging kit Ref. BVXXXA1TM.

ATTENTION! ALWAYS MUST BE MOUNTED VERTICALLY (VALVE 3 ON TOP)

TOLERANCES: External dimentions: $\pm 3\%$ Volume: $\pm 2.5\%$ Weight: $\pm 5\%$

PROCHEM SERVICES

CORROSION RESISTANT FLUID HANDLING PRODUCTS
CONGLETON, CHESHIRE, CW12 2AD, U.K.
TEL. +44 (0)1260 299770 www.prochem-services.com



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

PULSATION DAMPENER MODEL	MAX. ΔV ADMITTED (c.c.)**	VOLUME (litres)	DESIGN PRESSURE (bar-g)	D (mm)	L (mm)	R (BSP)	FLANGE DN (Optional)	H (mm)	WEIGHT (kg)
F007A05I1-AI	168	0.70	50	84	250	1/2"	1/2"	16	3.5
F015A04I1-AI	418	1.45	40	104	370	3/4"	3/4"	25	5
F030A03I1-AI	800	2.40	30	156	375	1"	1"	27	15
F040A03I1-AI	1200	3.70			472				10.6
F060A04I1-AI	1850	6.00	40	156	576	1-1/2"	1-1/2"	35	12
F100A03I1-AI	3500	10.20	30	218	586	2"	2"		12.3
F150A03I1-AI	4400	15.00			783				24.0

Precharge pressure ≤ 16 bar-g @ 20°C
Precharge pressure limited by the separator element (bellows)

** $\Delta V \geq C/2$ for a single head pump ("C" = Head pump volume)
 $\Delta V \geq C/5$ for a duplex heads pump
 $\Delta V \geq C/12$ for a three heads pump

WORKING LIMITS TEMPERATURES(°C): -50 / + 300 °C

Working Temperatures Versus Working Pressures

For a temperature of 100°C correspond design pressure x 0.82
" " " " 200°C " " " x 0.68
" " " " 300°C " " " x 0.59

For higher pressures and for variable working pressures and/or temperatures, HIDRACAR has special designs. Please consult.

Nº	ITEM	QT.	MATERIAL
1	BELLOWS	1	AISI 316Ti
2	BODY	1	AISI 316L
3	INFLATING N2 VALVE	1	AISI 316L (1/4" BSP)
4	THREADED CONNECTION	1	AISI 316L

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