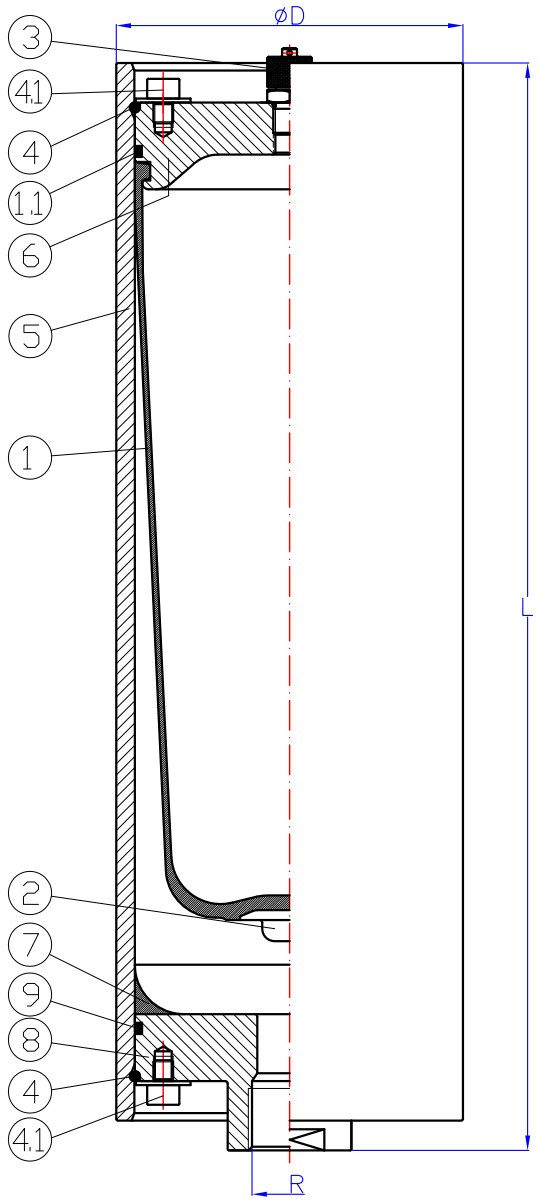
wall thickness calculation according to EN14359 & ASME VIII Div.1 code



Note: $\frac{\text{Working pressure}}{\text{Filling gas pressure}} \leq 5$ (@Constant Temp.)

WORKING TEMPERATURES VERSUS DESIGN PRESSURES			
FOR A TEMPERATURE OF 80°C	CORRESPOND THE DESIGN PRESS.x		0.87
FOR A TEMPERATURE OF 130°C	CORRESPOND THE DESIGN PRESS.x		0.78
FOR A TEMPERATURE OF 200°C	CORRESPOND THE DESIGN PRESS.x		0.68
BLADDER RUBBER : V=FKM			V
RUBBERS MAX.WORKING TEMPERATURES (°C)			+200 −20

THE MAX. WORKING TEMPERATURES VALUES CAN BE REDUCED DEPENDING UPON THE LIQUID IN CONTACT AND TIME OPERATION

PULSATION DAMPER REF.	VOLUME (litres)	DESIGN PRESSURE (Bar @ 20°C)	D (mm)	L (mm)	R (BSP)	H (mm)	WEIGHT (Kg)
U040	3.8	110	140	440	1"	–	13

Nº	DENOMINATION	QT.	MATERIALS
9	'O' RING	1	FKM
8	BOTTOM COVER	1	SUPERDUPLEX
7	CORNER	1	FKM
6	GAS COVER	1	SUPERDUPLEX
5	BODY	1	SUPERDUPLEX
4.1	BOLT	4	ISO7380 A4-70
4	RETAINING RING	2	DIN17224(AISI 316)
3	CHARGING VALVE	1	AISI 316 (1/4" BSP)
2	INSERT	1	SUPERDUPLEX
1.1	'O' RING	1	FKM
1	BLADDER	1	FKM

TOLERANCES:
EXTERNAL DIMENTIONS: ± 2 %
WEIGHT: ± 4%

The pulsation damper must be precharged at 0,8 of the working pressure and at the working temperature.

The precharge must be done with N2 or compressed air slowly and with our tool Ref. BVXXXA1TM. The position ought to be vertical: valve 3 on top

HIDRACAR SA
08243 MANRESA
(BARCELONA) SPAIN
TEL.34.93.8330252 FAX.34.93.8331950

Customer	Customer Ref.	Drawn	Approved
		JOAN FONT	R.GARCIA
Title: S.DUPLEX MEDIUM PRESSURE PULSATION DAMPER	Drg.No U040A11V1-AI/SDU	Rev.	Date: 22.01.24 / Scale