Macduff Robotics

Intelligent Subsea Equipment



Description:

Rolling bladder type compensator for pressure balancing of subsea oil filled assemblies such as junction boxes, transformer housings, or motor bodies. Standard design manufactured from lightweight corrosion resistant Acetal for general purpose use.

Hydraulic Compensators – Standard Versions

MAIN FEATURES

- Manufactured from corrosion resistant Acetal copolymer, with stainless steel fasteners and spring, with reinforced rubber diaphragm.
- Nine size variants from 26cc to 2701cc
- Standalone ported and manifold mount versions available.
- No protruding parts during operation
- Can be mounted vertically to improve elimination of air pockets.

Further Information

Spares kits also available

Equipment supplied

Standard supply includes

- Compensator unit.
- Operating manual

Weights and volumes

	Unit Volume (cc)	Weight in Air (Kg)	Weight in Fresh	Weight in Sea	Recommended Maximum	
			Water (Kg)	Water (Kg)	Compensated Volume (cc)	
Standard Units	26	0.158	0.099	0.097	147	
	70	0.302	0.144	0.139	397	
	270	0.664	0.283	0.272	1530	
	373	1.106	0.486	0.467	2114	
	864	1.754	0.788	0.759	4896	
	1221	2.143	0.885	0.848	6919	
	2701	4.323	2.006	1.937	15306	
Low Profile Units	369	1.125	0.439	0.419	2091	
	415	1.281	0.506	0.482	2352	

Typical Options Available

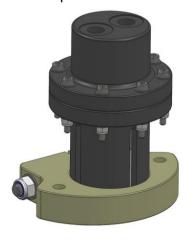
- SAE, NPT, & BSPP threaded ports
- Overpressure Relief valve normally set to 1bar (requires an NPT port)
- Alternative materials Aluminum, Stainless steel, and duplex versions possible

Mounting options

Bracket Mount



Base Clamp

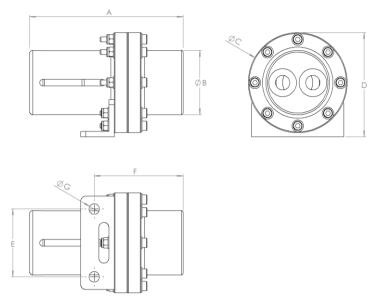


Screw-in Manifold Mount

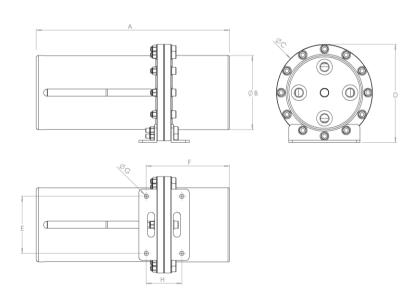


Dimensions (Bracket Mount types)

26cc,70cc,270cc,373cc



864cc,1221cc,2701cc,369ccLP,415ccLP



	Dimension (mm)									
Unit size (cc)	Α	В	С	D	E	F	G	Н		
26	91.5	38.0	59.0	61.5	40.0	53.0	M6 (6.2)	-		
70	120.5	48.0	75.0	75.5	45.0	65.0	M6 (6.2)	-		
270	187.5	70.0	96.0	99.0	70.0	91.0	M6 (6.2)	-		
373	208.5	84.0	116.0	120.0	80.0	99.5	M6 (6.2)	-		
864	271.5	104.0	135.0	137.5	80.0	123.5	M6 (6.2)	50.0		
1221	298.5	114.0	145.0	147.0	90.0	126.5	M6 (6.2)	50.0		
2701	379.0	145.0	182.0	187.0	100.0	151.0	M6 (6.2)	54.0		
369	112.5	114.0	145.0	147.0	90.0	67.5	M6 (6.2)	50.0		
415	112.5	124.0	155.0	157.0	100.0	67.5	M6 (6.2)	50.0		

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