

**ALL OCEANS  
Pressure Compensator  
Selection Table**

Pressure compensators provide a flexible, impermeable membrane between two fluids. The fluid pressures can be balanced or biased - external over internal.



**PC MODEL RANGE**

		<b>PC440</b>		<b>PC1800</b>		<b>PC3000</b>		<b>PC3600</b>		<b>PC6000</b>			
		Manifold together for additional volume		Manifold together for additional volume		Manifold together for additional volume		Circulating Reservoir style		Circulating Reservoir style			
		SI	UK	SI	UK	SI	UK	SI	UK	SI	UK	SI	UK
<b>Volume</b>	<b>Swept</b>	<b>0.45</b>	0.79	<b>1.95</b>	3.43	<b>3.18</b>	5.6	<b>3.9</b>	6.86	<b>6.36</b>	11.19	<b>6.36</b>	11.19
	<b>Total</b>	<b>0.455</b>	0.8	<b>2.05</b>	3.61	<b>3.28</b>	5.77	<b>4.95</b>	8.71	<b>7.41</b>	13.04	<b>7.41</b>	13.04
<b>Bladder Port</b>	note 3	<b>0.63</b>	1.11	<b>4.0</b>	7.04	<b>4.0</b>	7.04	<b>8.0</b>	14.08	<b>8.0</b>	14.08	<b>8.0</b>	14.08
		<b>1/4" NPT(F)</b>		<b>1" BSPP(M)</b>		<b>1" BSPP(M)</b>		<b>2 x 1" BSPP(F)</b>		<b>2 x 1" BSPP(F)</b>		<b>2 x 1" BSPP(F)</b>	
<b>Std. Bias Diameter</b>	note 4	<b>0.344</b>	5	<b>0.276</b>	4	<b>0.276</b>	4	<b>0.276</b>	4	<b>0.276</b>	4	<b>0.276</b>	4
		<b>97.5</b>	3.83	<b>172</b>	6.77	<b>172</b>	6.77	<b>180 sq.</b>	7.09	<b>180 sq.</b>	7.09	<b>180 sq.</b>	7.09
<b>Length</b>		<b>176</b>	6.93	<b>260</b>	10.23	<b>320</b>	12.6	<b>532</b>	20.94	<b>652</b>	25.67	<b>652</b>	25.67
	note 5	<b>76.5</b>	3.01	<b>90</b>	3.54	<b>150</b>	5.9	<b>90</b>	3.54	<b>150</b>	5.9	<b>150</b>	5.9
<b>Weight (empty)</b>	<b>In Air</b>	<b>1.2</b>	2.65	<b>4.5</b>	9.92	<b>7</b>	15.43	<b>11</b>	24.25	<b>18</b>	39.68	<b>18</b>	39.68
	<b>In Water</b>	<b>0.7</b>	1.54	<b>3</b>	6.61	<b>4.7</b>	10.36	<b>7.5</b>	16.53	<b>12.3</b>	27	<b>12.3</b>	27
<b>MWP</b>	notes 3 & 4	<b>3.45</b>	50	<b>3.45</b>	50	<b>3.45</b>	50	<b>3.45</b>	50	<b>3.45</b>	50	<b>3.45</b>	50
		<b>5</b>	75	<b>5</b>	75	<b>5</b>	75	<b>5</b>	75	<b>5</b>	75	<b>5</b>	75
<b>Material</b>	<b>bladder</b>	<b>neoprene</b>	ext & int	<b>neoprene</b>	ext & int	<b>neoprene</b>	ext & int	<b>neoprene</b>	ext & int	<b>neoprene</b>	ext & int	<b>neoprene</b>	ext & int
	<b>end cap</b>	<b>acetyl</b>	ext	<b>acetyl</b>	ext & int	<b>acetyl</b>	ext & int	<b>acetyl</b>	ext & int	<b>acetyl</b>	ext & int	<b>acetyl</b>	ext & int
<b>Options</b>	<b>retainer</b>	<b>steel</b>	int	<b>n/a</b>		<b>n/a</b>		<b>n/a</b>		<b>n/a</b>		<b>n/a</b>	
	<b>spring body</b>	<b>St.Steel</b>	ext	<b>St.Steel</b>	ext	<b>St.Steel</b>	ext	<b>St.Steel</b>	ext	<b>St.Steel</b>	ext	<b>St.Steel</b>	ext
<b>Bias Bracket</b>	<b>Bias</b>	<b>0, 10, 15 &amp; 20</b>		<b>0 &amp; 8</b>		<b>0 &amp; 8</b>		<b>0 &amp; 8</b>		<b>0 &amp; 8</b>		<b>0 &amp; 8</b>	
	<b>Sensor</b>	<b>one end</b>		<b>each end</b>		<b>each end</b>		<b>body and ends</b>		<b>body and ends</b>		<b>body and ends</b>	
		<b>low + low low</b>		<b>low + low low</b>		<b>low + low low</b>		<b>low + low low</b>		<b>low + low low</b>		<b>low + low low</b>	

**NOTES**

- The bias spring or springs can be changed out without disturbing the compensated fluid. This is a unique feature of all models.
- For balanced pressure operation, users have the choice of either leaving the piston in or taking it out.
- With the piston, or piston and end cap removed, the bladder can be expanded to give the increased volume specified.  
**WARNING** - the maximum working pressure of the compensator in this mode is only 0.344 bar / 5 psi
- WARNING** - Users must protect components and systems from exposure to pressures in excess of their safe working pressure.  
The high pressure rating (3.45 bar) can be used to promote fluid migration through suitably rated and protected systems.  
Bias pressure ratings are for full compensators with a full set of springs. "Empty" pressure is approximately 35 - 50% of the full pressure.
- The overall length of each model is its length plus stroke.
- An encapsulated reed switch is actuated by a magnet on the indicator rod. Approximately 25% (low) and 10% (low low)
- All Oceans Engineering Limited reserve the right to modify any and all details without prior notice.