





## <u>SERVICE</u> CLASSIFICATION

- Pneumatic / Hydraulic Service
- Standard Service: Fluorocarbon O-Rings
- Temperature Range: -15 to 250 °F (-26 to 121 °C)
- 30-150 PSI (2.07-10.34 BAR) Instrument Pressure Rating



### **FEATURES**

- 316/316L Stainless Steel Materials
- Electropolished finish which removes surface imperfections that can compromise the performance and longevity of the device
- Normally Open or Normally Closed
- Special Service O-Rings and material available to meet customer requirements
- Dry film lubricant applied to adjustment threads to increase the load-bearing capabilities; thus, reducing the chance of thread galling while still maintaining an extremely low coefficient of friction
- Contains O-Rings for all sensing configurations
- Deadband +/-5% of set pressure (Deadband may be affected in hydraulic applications)
- Set point repeatability 1% of set pressure

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Telephone (985)876-4117

info@bwbcontrols.com

## **OPERATION**

The BWB "RPS" is a 3-way, normally closed or normally open, automatic, pressure sensing device. By choosing the appropriate inlet, the sensor can detect pressure above (**PSH**) or below (**PSL**) any desired pressure setting. By selecting the correct piston & spring combination (see pressure chart), and either loosening or tightening the adjustment cap, the sensor may be set between **10** and **10,000 psi**. It is normally installed on a process vessel, process flow line, or in a control panel. The sensor receives sensing pressure from the component which it is monitoring and supply pressure from the safety system which it will shut down.

## PART NUMBER SELECTOR

EXAMPLE PART NUMBER: 15516-01012 (#1 Sensing Configuration, Fluorocarbon Elastomers, Silver Spring, 316SS Adjustment Cap, Preset Panel Nut)

BASE MODEL	ELASTOMERS	SPRING	ADJUSTMENT CAP Material	PANEL NUTS
15516	<b>0</b> – Fluorocarbon	<b>0</b> – Black	<b>00</b> – Delrin	<b>0</b> – None
(#1 Sensing Configuration)	(Viton)			
15517		<b>1</b> – Silver	<b>01</b> – 316SS	1 – Standard Panel Nut
(#2 Sensing Configuration)				
15518		<b>2</b> – Green		2 – Preset Panel Nut
(#3 Sensing Configuration)				
		3 – Black Inconel		
		(X750)		
		4 – Silver Inconel		
		(X750)		
		5 – Green Inconel		
		(X750)		





DIMENSION	RPS	
А	1.88" (47.75 mm)	
В	10.95" (278.13 mm)	
C	7.99" (202.95 mm)	
D	4.37" (111.00 mm)	
E	3.62" (91.95 mm)	
F	3.99" (101.35 mm)	
G	5.12" (130.56 mm)	
Н	.75" Hex (19.05 mm)	
Port Size	1/4-18-NPT	

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#### **#1** 1-1/8" SENSING UNIT



#2 1/2" SENSING UNIT

#3 1/4" SENSING UNIT





### SPECIFICATIONS

Maximum Operating Pressure

10,000 PSI (689.48 Bar)

**Process Connections** 

1/2"-14-MNPT / 1/4"-18-FNPT

### PRESSURE RANGES

Piston Configuration #1				
Spring	Range (PSI)	Range (Bar)		
Black	10 - 30 PSI	0.7 - 2		
Silver	30 - 250 PSI	2 – 17		
Green	200 - 500 PSI	14 - 34		

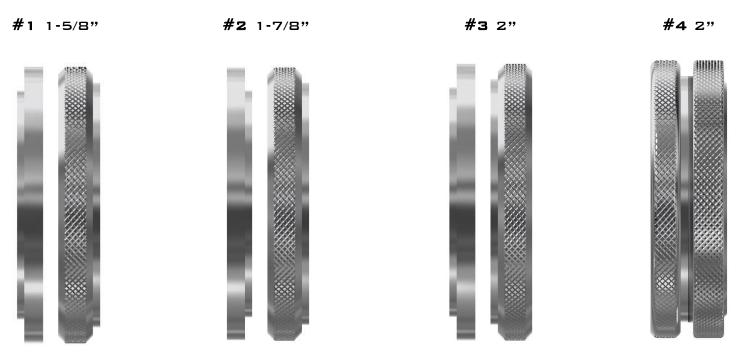
Piston Configuration #2			
Spring	Range (PSI)	Range (Bar)	
Silver	250 - 1300 PSI	17 – 90	
Green	400 - 2000 PSI	28 - 138	

Piston Configuration #3				
Spring Range (PSI)		Range (Bar)		
Silver	2000 - 5500 PSI	138 – 379		
Green	3500 – 10,000 PSI	241 - 690		

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### PANEL MOUNT OPTIONS



Options 1-3 orientate panel nut to desired panel hole size as shown above.

Option 4 is recommended for preset pressure sensors. Removal of the adjustment cap is not necessary to install the pressure sensor in the panel.