



## "RH2" PILOT "PNEUMATIC or HYDRAULIC"

### OPERATION

The BWB "RH2" 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 assembly & spring combination (See Pressure Chart), and either loosening or tightening the adjustment bolt, the sensor may be set between 3 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 (Port P) from the component which it is monitoring and supply pressure (Port A or B) from the safety system which it will shutdown.

### FEATURES

- 316 STAINLESS STEEL MATERIALS
- 1/4" FNPT CONTROL PORTS
- DEAD BAND +/- 5% TO 20% OF SET PRESSURE
- SET POINT REPEATABILITY +/- 1% OF SET PRESSURE

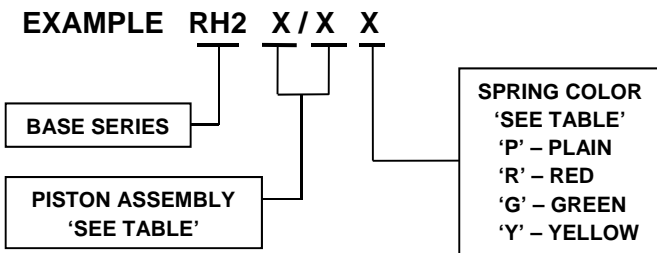
### SERVICE CLASSIFICATION

- Standard service: Viton O-rings
- Temperature Range: -15 to 250° F (-26 to 121° C)
- Special service: O Ring compounds and materials to Customer Requirements

**BWB Controls 'RH2' Pilots can be configured to meet the needs of the customer by changing the Sensing Sleeves, Sensing Pistons and Springs. Please review the charts below to determine your configuration.**



### ORDERING INFORMATION



PART #	PISTON/SPRING	ADJUSTABLE RANGE	
RH2LP	LP PLAIN	3 - 10 PSI	.21 - .69 bar
RH21/2P	#1/2 - PLAIN	5 - 15 PSI	.34 - 1.02 bar
RH21/2R	#1/2 RED	15 - 50 PSI	1.02 - 3.45 bar
RH21/2G	#1/2 - GREEN	50 - 200 PSI	3.45 - 13 bar
RH21/2Y	#1/2 - YELLOW	150 - 325 PSI	10 - 22 bar
RH22/1G	#2/1 - GREEN	150 - 500 PSI	10 - 34 bar
RH22/1Y	#2/1 - YELLOW	300 - 900 PSI	20 - 62 bar
RH22/3G	#2/3 - GREEN	150 - 500 PSI	10 - 34 bar
RH22/3Y	#2/3 - YELLOW	300 - 900 PSI	20 - 62 bar
RH23/2G	#3/2 - GREEN	500-1500 PSI	34 - 103 bar
RH23/2Y	#3/2 - YELLOW	750 - 2000 PSI	52 - 138 bar
RH24/5G	#4/5 - GREEN	1000 - 3000 PSI	69 - 207 bar
RH24/5Y	#4/5 - YELLOW	1500 - 4000 PSI	103 - 275 bar
RH25/4G	#5/4 - GREEN	2000 - 6000 PSI	138 - 413 bar
RH25/4Y	#5/4 - YELLOW	3500 - 10000 PSI	241 - 689 bar

WEIGHTS			
RH2	5 POUNDS	RH2 (PSHL)	12.00 POUNDS
RH2LP	5 POUNDS	RH2DIF	8.00 POUNDS

PANEL MOUNT	
1 - 9/16" Diameter Hole (39 mm)	
Maximum Panel Thickness, 0.25 Inches (6 mm)	
Panel Nut Thickness; 0.25 inches (6 mm)	



**INSTALLATION**

**PORT 'A'**

PSH – Supply Inlet (N.O.)  
 PSL – Exhaust (N.C.)  
 Pneumatic 30 to 1500 PSI (2.06 to 103.42 bar)  
 Hydraulic 30 to 2200 PSI (2.06 to 151.68 bar)  
 1/4" FNPT - Orifice - .109" (2.77 mm)

**PORT 'B'**

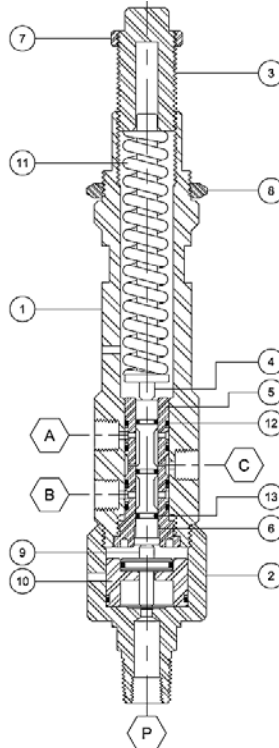
PSL – Supply Inlet (N.C.)  
 PSH – Exhaust (N.O.)  
 Pneumatic 30 to 1500 PSI (2.06 to 103.42 bar)  
 Hydraulic 30 to 2200 PSI (2.06 to 151.68 bar)  
 1/4" FNPT - Orifice - .109" (2.77 mm)

**PORT 'C'**

Supply Pressure Outlet  
 1/4" FNPT  
 Orifice Size - .109" (2.77 mm)

**PORT 'P'**

Sensing Pressure Inlet  
 3 to 10000 PSI (0.21 to 689.48 bar)  
 1/4" FNPT and 1/2" MNPT  
 Orifice Size - .109" (2.77 mm)



ITEM	DESCRIPTION
1	BODY
2	BASE
3	ADJUSTMENT BOLT
4	SPRING GUIDE
5	SLEEVE
6	INNER PISTON
7	LOCKRING
8	PANEL NUT
9	SENSING PISTON ***
10	SENSING SLEEVE ***
11	SPRING
12	O-RING AND BACKUP (QTY 4)
13	O-RING (QTY 3)

\*\*\* SENSING PISTON AND SLEEVE DATA IS FOUND BELOW

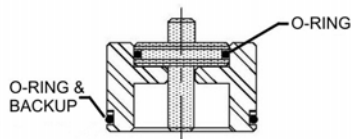
**REPAIR KIT(S):**

CONTAINS ALL SEALS

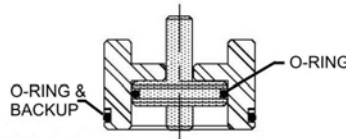
Please see the diagrams below of the Sleeve and Piston configurations.

**1/2 PISTON ASSEMBLY**

1/2 PISTON & SLEEVE

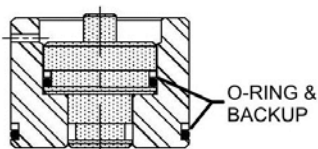


2/1 PISTON & SLEEVE

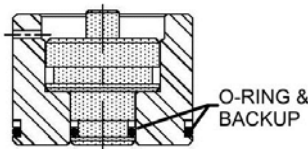


**2/3 PISTON ASSEMBLY**

2/3 PISTON & SLEEVE

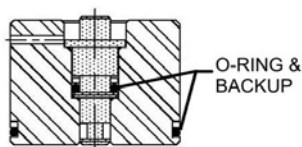


3/2 PISTON & SLEEVE

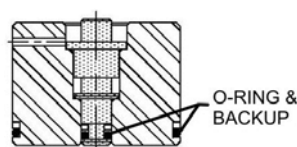


**4/5 PISTON ASSEMBLY**

4/5 PISTON & SLEEVE



5/4 PISTON & SLEEVE



**DIMENSIONS**

