



"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

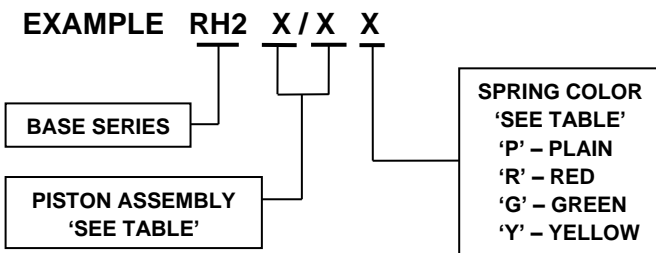
SERVICE CLASSIFICATION

- 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 | 3000 - 6000 PSI | 207 - 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'

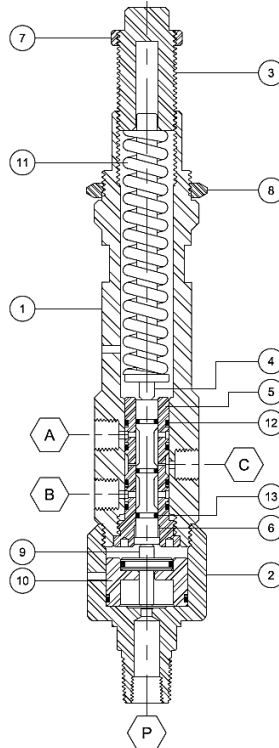
PSL – Supply Inlet (N.C.)
 PSH – Exhaust (N.O.)
 Pneumatic 30 to 1500 PSI (2.06 to 103.42 bar)
 Hydraulic 30 to 2200 PSI (2.06 to 151.68 bar)
 1/4" FNPT - Orifice - .109" (2.77 mm)

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):

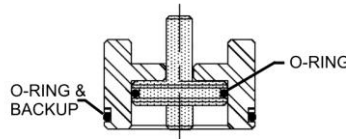
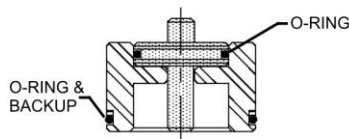
CONTAINS ALL SEALS

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

1/2 PISTON ASSEMBLY

1/2 PISTON & SLEEVE

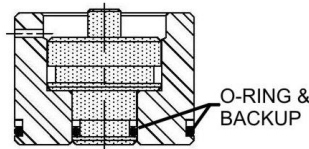
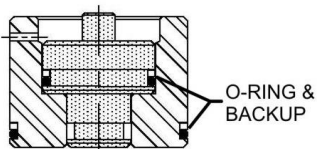
2/1 PISTON & SLEEVE



2/3 PISTON ASSEMBLY

2/3 PISTON & SLEEVE

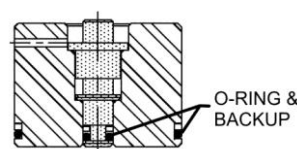
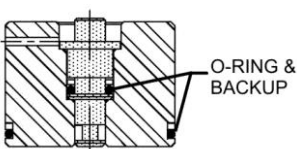
3/2 PISTON & SLEEVE



4/5 PISTON ASSEMBLY

4/5 PISTON & SLEEVE

5/4 PISTON & SLEEVE



DIMENSIONS

