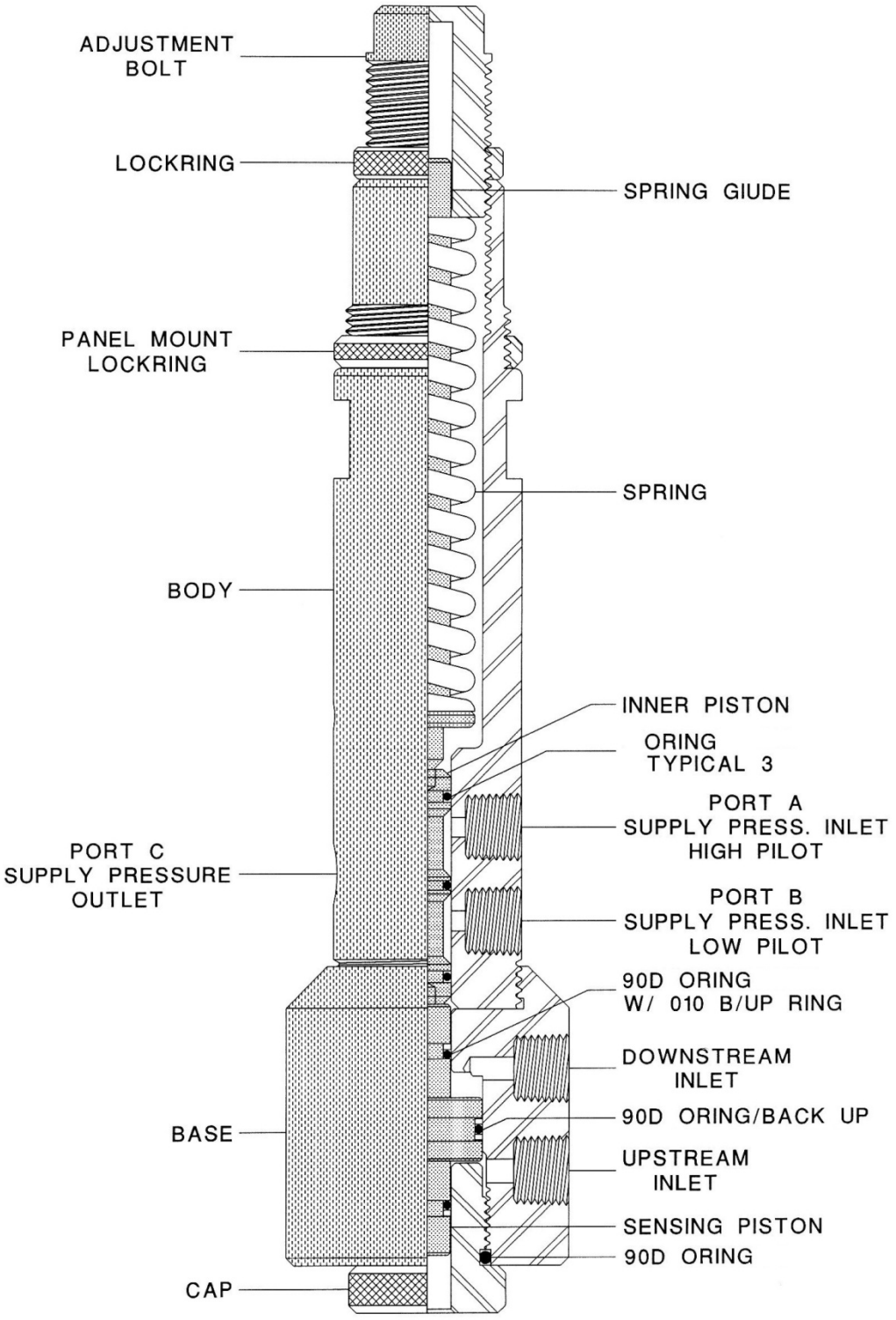
BWB CONTROLS, INC.

BWB *Controls*
Telephone (985)-876-4117
info@bwbcontrols.com
ISO 9001 Certified

‘RDIFH’ HIGH PRESSURE DIFFERENTIAL SENSOR



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INSTALLATION

CONNECTION 1/4" NPTF
PANEL MOUNT 1 3/8" Diameter Hole

Port A	**PSH - Supply Inlet**	**PSL – Exhaust**	**30 - 150 PSI (2.06-10.34 bar)**	**Orifice**	**.125" (3.17mm)**
Port B	**PSL - Supply Inlet**	**PSH - Exhaust**			**.125" (3.17mm)**
Port C	**Supply Pressure Outlet**				**.062" (1.57mm)**

Upstream / Downstream Sensing Pressure Inlet(s) 300 - 10000 PSI (20.68-689 bar) Orifice .187" (4.75mm)

RDIFH	**Differential Adjustment Range**	**150 - 900 PSI (10.34-62.04 bar)**
RDIFHH	**Differential Adjustment Range**	**800 - 2000 PSI (55.12-137.80 bar)**
RDIFH3	**Differential Adjustment Range**	**2000 - 5000 PSI (137.80-344.50 bar)**

OPERATION

The BWB "RDIFH & RDIFHH" are 3 way, normally closed or normally open, automatic, differential pressure sensing devices. By choosing the appropriate inlet, either sensor can detect pressure above (PSH) or below (PSL) the desired differential pressure setting. By selecting the appropriate spring (see pressure chart), and loosening or tightening the adjustment bolt, the "RDIFH" differential senor may be set between 150 and 900 PSI and the "RDIFHH" differential sensor may be set between 800 and 2000 PSI. They are normally installed on a process vessel, process flow line, or in a control panel. The sensor(s) receive differential sensing pressures (Upstream & Downstream) from the component which it is monitoring, and supply pressure (Port A or B) from the safety system which it will shutdown.

During normal operation, the differential pressures (Upstream & Downstream) should remain within the desired differential setting. This will allow supply pressure (Port A or B) to pass through the outlet (Port C), and on to the actuator or system.

When the pressure (Upstream or Downstream) exceeds the differential setting, the sensor will block the supply pressure (Port A or B) and bleed the outlet (Port C) through the exhaust (Port A or B); thus closing the actuator or system.

When the pressure, (Upstream & Downstream), return to normal operating limits, the sensor will automatically reset.

PRESSURE CHART

RDIFH	**Spring Color:**	**White**	**Differential Range:**	**150 - 500 PSI**
		Blue		**300 - 900PSI**
RDIFHH	**Spring Color**	**Blue**	**Differential Range:**	**800-2000 PSI**
RDIFH3	**Spring Color**	**Blue**	**Differential Range:**	**2000-5000 PSI**

FEATURES

Specify Viton O-Rings for Pneumatic Service or BUNA-N O-Rings for Hydraulic Service
All 316 Stainless Steel construction
Available in exotic metals for special service applications
Spring can be removed with differential pressures present

WEIGHT **5.00 POUNDS**