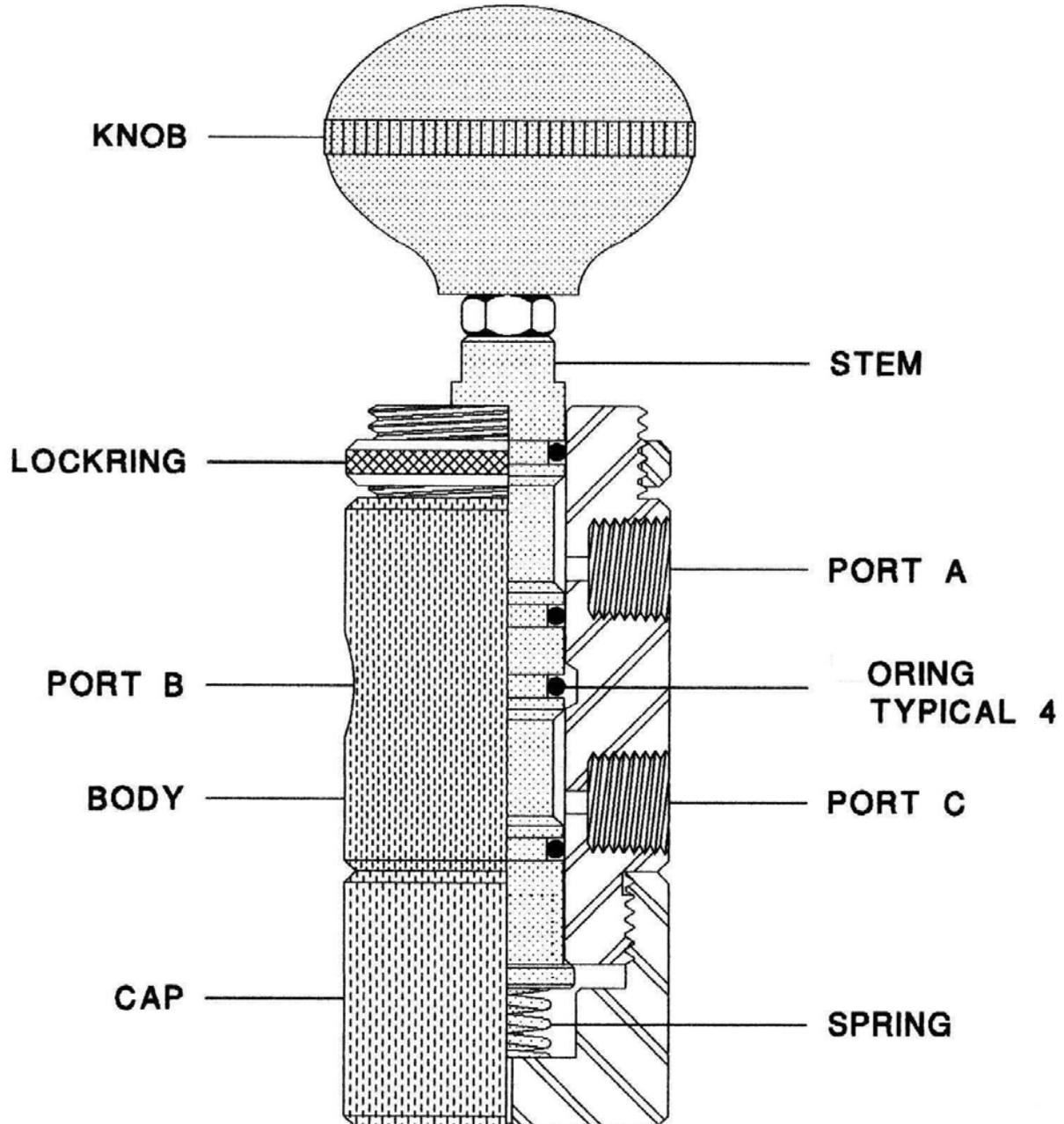




BWB Controls
Telephone (985)-876-4117
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ISO 9001 Certified



'MSR' PUSH TO CHARGE RELAY



Designed and Manufactured using Safe Engineering Practices

15 July 2011



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INSTALLATION

CONNECTION 1/4" FNPT
PANEL MOUNT 1 9/16" Diameter Hole

PORT A Inlet or Exhaust 20 to 175 PSI (1.37 to 12.06 Bar)
PORT B Outlet (to system)
PORT C Inlet or Exhaust 20 to 175 PSI (1.37 to 12.06 Bar)

OPERATION

The BWB "MSR" is a 2 way or 3 way, manual push, spring return relay. It is normally installed in a control panel and can be used in several different applications as detailed below:

3 WAY NORMALLY OPEN: PORT C - Inlet PORT B - Outlet PORT A - Exhaust

During normal operation, the spring holds the relay in the open position. The inlet (Port C) is open to the outlet (Port B) and the exhaust (Port A) or pneumatic system is blocked. When the knob is pushed in, the inlet (Port C) is blocked and the outlet (Port B) is open to the exhaust (Port A). When the knob is released, the relay will return to normal operating conditions.

3 WAY NORMALLY CLOSED: PORT A - Inlet PORT B - Outlet PORT C - Exhaust

During normal operation, the spring holds the relay in the closed position. The inlet (Port A) is blocked and the outlet (Port B) is open to the exhaust (Port C) or pneumatic system. When the knob is pushed in, the inlet (Port A) is open to the outlet (Port B) and the exhaust (Port C) is blocked. When the knob is released, the relay will return to normal operating conditions.

2 WAY NORMALLY OPEN: PORT C - Inlet PORT B - Outlet PORT A - Plugged

During normal operation, the spring holds the relay in the open position. The inlet (Port C) is open to the outlet (Port B). When the knob is pushed in, the inlet (Port C) and the outlet (Port B) are blocked. When the knob is released, the relay will return to normal operating conditions.

2 WAY NORMALLY CLOSED: PORT A - Inlet PORT B - Outlet PORT C - Plugged

During normal operation, the spring holds the relay in the closed position. The inlet (Port A) and the outlet (Port B) are blocked. When the knob is pushed in, the inlet (Port A) is open to the outlet (Port B). When the knob is released, the relay will return to normal operating conditions.

FEATURES

STANDARD SERVICE; Viton O-rings -20 to 250 Deg F (-29 to 120 Deg C)

LOW TEMP SERVICE; Buna-N O-rings -40 to 180 Deg F (-40 to 82 Deg C)

SPECIAL SERVICE; O Ring compounds and materials to Customer Requirements.

All 316 Stainless Steel construction

O-Rings do not cross directly over ports during operation, extending O-Ring longevity

Spring can be removed for manual only operation

Relay can be ordered for high pressure (hp) applications

Relay can be ordered with additional port (instrument pressure) for pilot or manual operation

Available in a larger, 1/2" FNPT size.

WEIGHT: 2.50 Lbs