



## 'TA2' / 'TA4' MINI UNIVERSAL RELAYS "PNEUMATIC"

### OPERATION

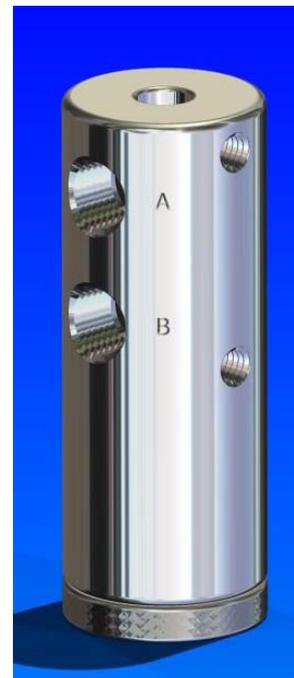
The BWB "TA" is a 2 way or 3 way, pilot operated, spring return, automatic relay with a threaded vent for dual pilot capabilities. It is normally installed inside a control panel and can be used in several different applications as detailed below:

**3 Way Normally Open:** Port A - Inlet Port C - Outlet Port B - Exhaust  
When instrument pressure (Port P) is applied, it will automatically push the relay into the closed position. The inlet (Port A) is blocked and the outlet (Port C) is open to the exhaust (Port B). When instrument pressure is lost, the relay will automatically return to the open position. The inlet (Port A) is open to the outlet (Port C) and the exhaust (Port B) is blocked.

**3 Way Normally Closed:** Port B - Inlet Port C - Outlet Port A - Exhaust  
When instrument pressure (Port P) is applied, it will automatically push the relay into the open position. The inlet (Port B) is open to the outlet (Port C) and the exhaust (Port A) is blocked. When instrument pressure (Port P) is lost, the relay will automatically return to the closed position. The outlet (Port C) is open to the exhaust (Port A) and the inlet (Port B) is blocked.

**2 Way Normally Open:** Port A - Inlet Port C - Outlet Port B - Plugged  
When instrument pressure (Port P) is applied, it will automatically push the relay into the closed position. The inlet (Port A) and outlet (Port C) are blocked. When instrument pressure (Port P) is lost, the relay will automatically return to the open position. The inlet (Port A) is open to the outlet (Port C).

**2 Way Normally Closed:** Port B - Inlet Port C - Outlet Port A - Plugged  
When instrument pressure (Port P) is applied, it will automatically push the relay to the open position. The inlet (Port B) is open to the outlet (Port C). When instrument pressure (Port P) is lost, the relay will automatically return to the closed position. The inlet (Port B) and outlet (Port C) are blocked.



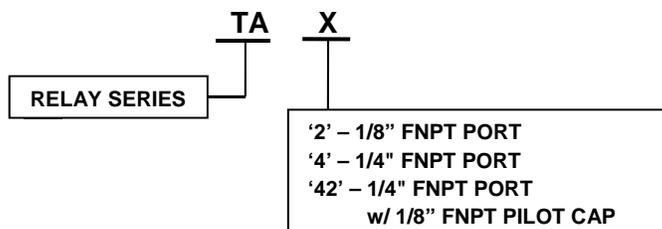
### FEATURES

- 316 Stainless Steel Materials
- 150 PSI (10.34 bar) MAWP
- Remove the spring for Dual Pilot Option

### 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

### ORDERING INFORMATION

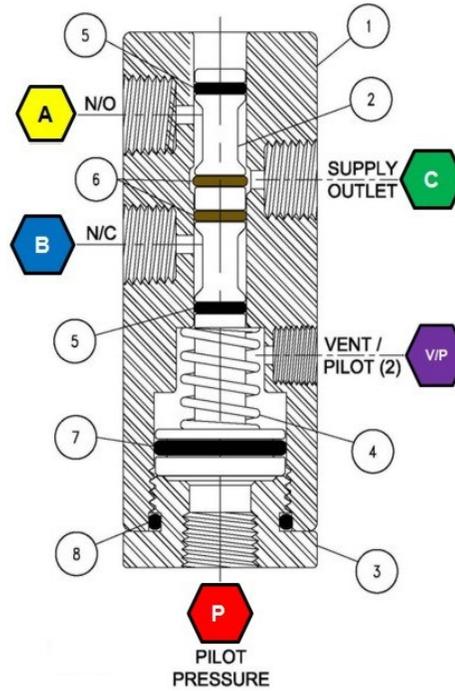


### WEIGHTS

- TA2 - 1.25 POUNDS
- TA4 - 1.50 POUNDS
- TA42 - 1.50 POUNDS

## INSTALLATION

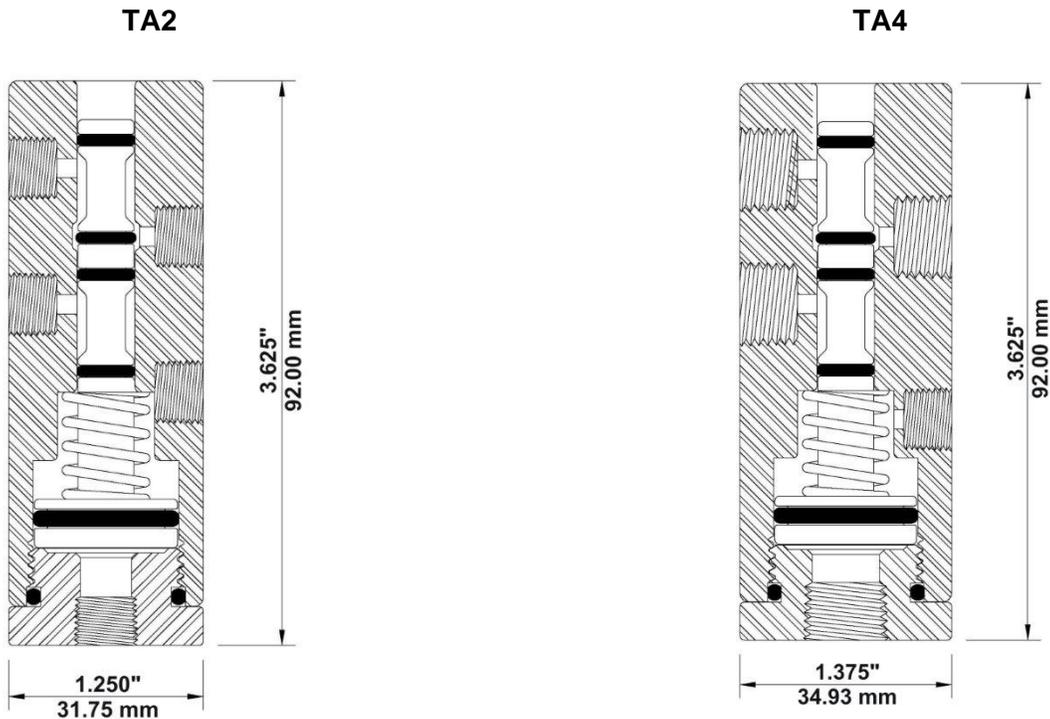
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**PORT 'A'**  
 INLET OR EXHAUST  
 30 TO 150 PSI (2.06 TO 10.34 BAR)  
 NORMALLY OPEN  
 ORIFICE SIZE - .125" (3.15 MM)
- 
**PORT 'B'**  
 INLET OR EXHAUST  
 30 TO 150 PSI (2.06 TO 10.34 BAR)  
 NORMALLY CLOSED  
 ORIFICE SIZE - .125" (3.15 MM)
- 
**PORT 'C'**  
 SUPPLY PRESSURE OUTLET  
 ORIFICE SIZE - .125" (3.15 MM)
- 
**PORT 'P'**  
 INSTRUMENT PRESSURE INLET  
 30 TO 150 PSI (2.06 TO 10.34 BAR)  
 ORIFICE SIZE - .328" (8.25 MM)
- 
**Port 'VP'**  
 VENT OR 2<sup>ND</sup> PILOT  
 ORIFICE SIZE - .125" (3.15 MM)  
 REMOVE SPRING FOR DUAL PILOT OPTION



ITEM	DESCRIPTION
1	BODY
2	SPOOL
3	CAP
4	SPRING
5	O RING
6	O RING, BROWN
7	O RING
8	O RING

**REPAIR KIT(S):**  
CONTAINS ALL SEALS AND O RINGS

## DIMENSIONS



**Please note that Warranty and Repair Kit information on BWB Products are located on our website**