



**Weather Proof
(NEMA 4 and 13)**

DESCRIPTION

Adjustable Nega-Rate® Belleville spring sensing mechanism (operator) and 3-way pneumatic valve combination. Especially suited for hydraulic to pneumatic interface applications.

Operating Pressure Data

Adjustable Range Number	Adjustable Set Point Range		Deadband (approximate)	Maximum Recommended System Pressure	Proof Pressure
	Increasing	Decreasing (approx.)			
3	500 to 1500	350 to 1200	150 min. 300 max.	7500	10000
6	750 to 3000	550 to 2600	200 min. 400 max.	7500	10000
8	1800 to 6000	1200 to 4800	600 min. 1200 max.	10000	15000

All values given in psig.

The deadband increases as the adjustable set point is increased.

Standard Specifications

AIR RELAY

Configuration

3-Way Pneumatic Valve

Line Pressure

Form D - Normally not passing
200 psig maximum

Form F - Normally passing
200 psig maximum

Pressure Connection

1/8" - 27 NPT Female

Equivalent Orifice

C_v .076

Leakage

Internal and External –
Maximum 6cc per minute/air
at 50 psig

Wetted Material

Aluminum, Buna-N and
Polyurethane

PRESSURE OPERATOR

Pressure Connection

1/4" - 18 NPT Female

Temperature Range

Ambient: -30°F to +160°F
(-34°C to +71°C)

Media: -30°F to +250°F
(-34°C to +121°C)

Adjustment

Concealed wrench flat adjustment
with range scale

Shipping Weight

Approximately 3 pounds

Ordering Sequence — Select desired option for each category

OPTIONS

Wetted Material

1 Aluminum port and piston, Teflon seal and Buna-N O-Ring

Adjustable Range

3 350 psig dec. to 1500 psig inc. (24.1 bar dec. to 103.5 bar inc.)

6 550 psig dec. to 3000 psig inc. (37.9 bar dec. to 206.9 bar inc.)

8 1200 psig dec. to 6000 psig inc. (82.8 bar dec. to 413.8 bar inc.)

Valve Form

D Normally not passing — 3 way

F Normally passing — 3 way

Enclosure

3 Meets or exceeds the requirements of NEMA Type 3, 3R, 3S, 4, 4X and 13

Miscellaneous

A Epoxy paint exterior — extra protection for severe environments

B Viton O-Ring

C EPR O-Ring

E 1/16" - 20 SAE port — (Wetted Material 1 only)

W Stainless steel screws — exterior

Special (Consult representative or factory)

■ Non-catalog adjustable range and/or set point, deadband and proof pressure

Ordering Procedure

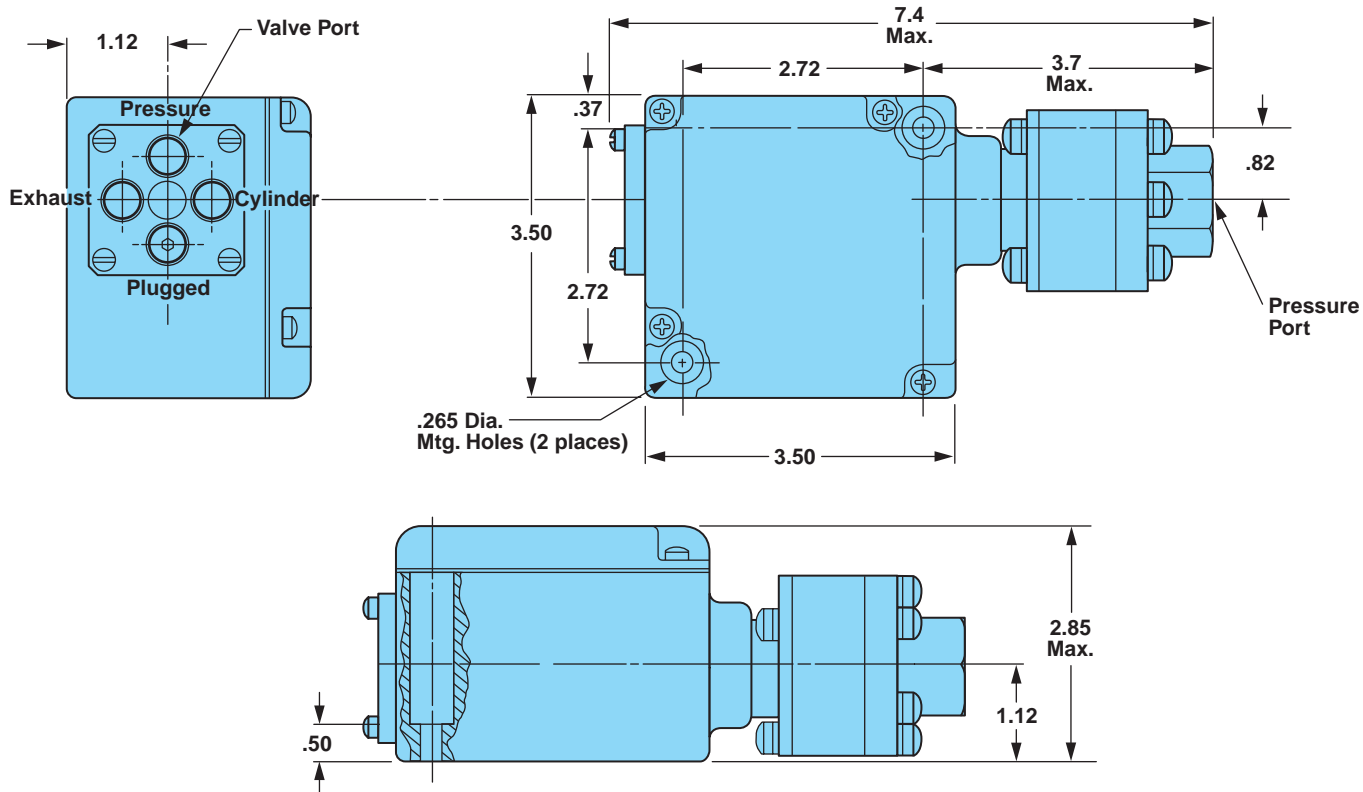
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required

Example

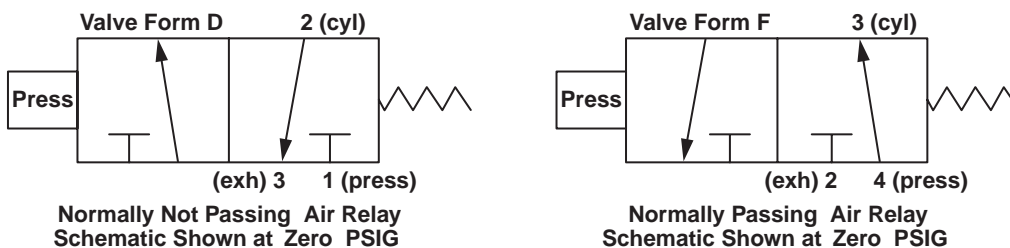
Series
Wetted Material
Adjustable Range
Valve Form
Enclosure
Miscellaneous

200PV 1 6 F 3

Envelope Dimensions



Valve Form



Basic Principles of Design

