

# Neo-Dyn® Series 200PV Air Relay Pressure Switch

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<sub>v</sub> .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



Weather Proof  
(NEMA 4 and 13)

## 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 7/16" - 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

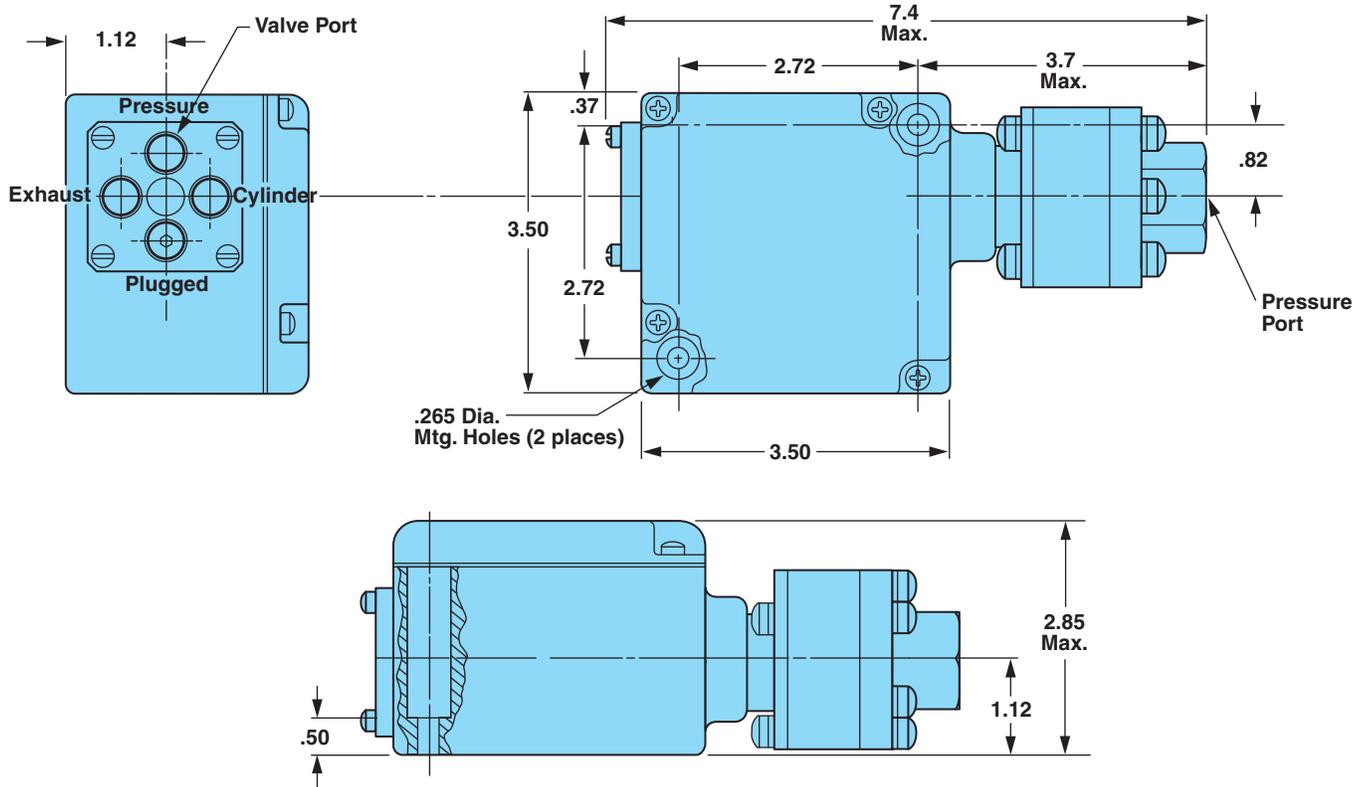
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required

## Example

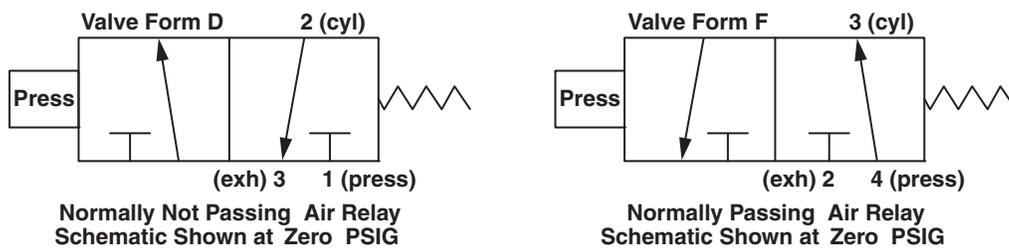
Series  
Wetted Material  
Adjustable Range  
Valve Form  
Enclosure  
Miscellaneous

200PV 1 6 F 3

## Envelope Dimensions



## Valve Form



## Basic Principles of Design

