



Actual Size

Humphrey®

Build on Our Experience.

Corrosion Resistant
316 Stainless Steel

Chemical-/Temperature-
Tolerant Viton®

SS250A Air Valve

Need a Valve That Can Last?

Then you need Humphrey's **SS250A Air Valve**, featuring our exclusive double diaphragm design in 2-way and 3-way models only. Its stainless steel body is perfect for use where corrosion, chemical, and temperature resistance are a primary consideration.

Features:

- Simple and Reliable
- Versatile
- Pressure operated
- Spring and pressure returned
- No O-rings
- No sliding seals
- No lubrication required
- No sticking
- Tolerates clean/dry or dirty/wet air
- Short stroke (.060")
- Fast response
- 1/4-inch NPT
- Full 1/4-inch orifice
- High air flow
- Compact size
- Mounts in any position

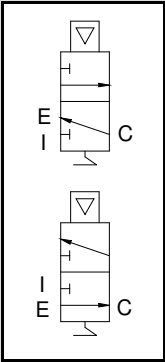
Applications:

- Exterior environments compatible with valve materials, specs and design
- Offshore
- Onshore
- Process control
- Instrumentation
- Panel work
- Non-lubricated or lubricated applications
- Ships
- Trucks
- Other vehicles
- Clean rooms
- Processing
- Washdown areas
- Infrequent and/or rapid cycling applications

Specifications

MEDIA:
Air or inert gasses
PRESSURE RANGE:
Normally closed..... 0-125 PSIG
Normally open.....0-60 PSIG
Optimum cycle life..... to 60 PSIG
TEMPERATURE RANGE:
0°F to 400°F (-17.7°C to 204°C)
AIR FLOW (SCFM to atmosphere):
Multiply PSIG x 0.6
OPERATING SPEEDS:
To 600 CPM
WEIGHT.....11.5 OZ

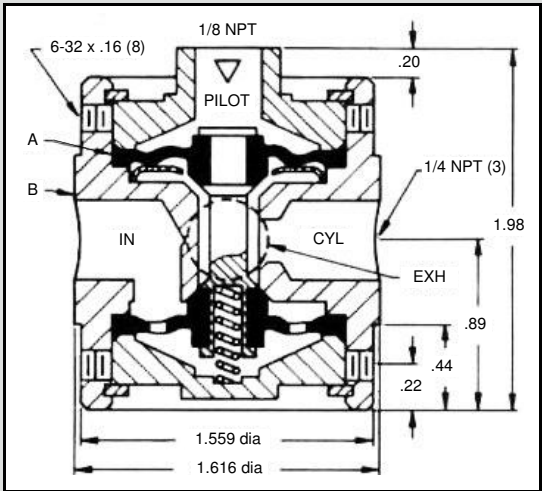
2-/3-Way



Normally Closed-
Connect pressure source to "IN."
For 2-Way, plug "EXH" port.

Normally Open-
Connect pressure source to "EXH."
("IN" port becomes exhaust.)
For 2-Way, plug "IN" port.

| Response and Fill/Exhaust Times (seconds) at 100 PSIG/72°F | | | | | | | | |
|---|------------------------------------|------|------|------|---------------------------------|-------------------|----------------------------------|-------------------|
| SS250A | Length of Pilot Line .170 I. D. | | | | 10 Inch ³ Chamber | | 100 Inch ³ Chamber | |
| | 5' | 10' | 20' | 30' | Fill 0-80 | Exhaust 100-20 | Fill 0-80 | Exhaust 100-20 |
| Open | .011 | .021 | .046 | .072 | .038 | .076 | .330 | .720 |
| Close | .018 | .035 | .072 | .118 | | | | |



| Minimum Pilot Pressure Requirements (PSIG) | | | | |
|--|----|----|-----|-----|
| Valved Pressure | 15 | 60 | 100 | 120 |
| Normally Closed | 18 | 40 | 75 | 100 |
| Normally Open | 20 | 57 | NA | NA |

Materials:

- A. Viton® "A" 70 ± 5 durometer Shore "A" scale
- B. 316 Stainless Steel, except 302 Stainless Steel (passivated) spring and PH-7Mo Stainless Steel retaining rings

Mounting Base:

Part No. 8-20A Order separately.
2.250" sq. w/four .218 dia. holes on 1.593 centers.
Attach to valve over 1.559 dia.
Flat black painted mild steel w/four zinc plated #6-32 screws.

Find us on the web at www.humphrey-products.com.