

Series 227 Poppet Valves

Compressed Air & Vacuum

Features & Benefits

The Aventics Series 227 Poppet Valves are ideal for single acting cylinders, Air Bellows, and vacuum material handling.

- High Flow, Low Cost, Rugged Design
- Use with air or neutral gas
- NPT and G tapped threads
- 2/2 Normally Closed, 3/2 Normally Closed or Open
- Solenoid or Air Pilot actuated
- Internal or External Air Pilot
- For Compressed Air or Vacuum applications
- AC & DC voltages available
- cURus Approved Coils
- 5/2 Foot Pedal actuated, with or without spring
- Mean life expectancy of 10 million cycles under normal operating conditions



Technical Specifications

| Port Size | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1-1/2 | |
|----------------------|---|------|--|--|-----|----|------------------|--|
| Cv | 0.84 | 1.56 | 1.8 | 4.8 | 6.1 | 12 | 33.5 | |
| Functions | 3/2 NC, 3/2 NO | | | 2/2 NC, 3/2 NC, 3/2 NO | | | | |
| Note | Solenoid pilot not available with external pilot | n/a | | 3/2 NO not available for compressed air versions | | | n/a | |
| Coil Size | 22mm | | | 30mm | | | | |
| Power Consumption | 5 W holding - DC 8 VA holding - AC | | | 8 W holding - DC 11 VA holding - AC | | | | |
| Min Pilot Pressure | 43.5 psi (3 bar) - Solenoid Pilot 36 psi (2.5 bar) - Air Pilot | | 36 psi (2.5 bar) - Compressed Air versions 30 psi (2 bar) - Vacuum versions | | | | 50 psi (3.5 bar) | |
| Max Working Pressure | 145 psi (10 bar) | | | | | | | |
| Temperature Range | 23° to +113°F (-5° to +45°C) - Solenoid Pilot 23° to +158°F (-5° to +70°C) - Air Pilot | | | | | | | |

For more information:
www.Emerson.com/AVENTICS

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Construction Characteristics

| Ports (NPTF) | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1-1/2 |
|---------------|------------------------------|-----|-----------------|------------|-----|----------|-------|
| Body | Anodized Aluminum | | Aluminum | Zinc Alloy | | Aluminum | |
| Bottom Plates | n/a | | Aluminum | | | | |
| Actuators | Anodized aluminum | | NBR | | | | |
| Spool | Hardened nickel-plated steel | | n/a | | | | |
| Spacers | Brass | | n/a | | | | |
| Pistons | n/a | | Aluminum | | | | |
| Actuators Rod | n/a | | Stainless steel | | | | |
| Seals | Polyurethane + Nitrile | | NBR | | | | |
| Spring | Stainless steel | | | | | | |

Portfolio Overview



1/8



1/4, 3/8



1/2, 3/4



1



1-1/2