

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

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