



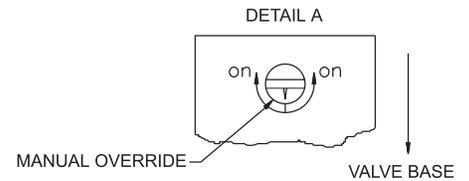
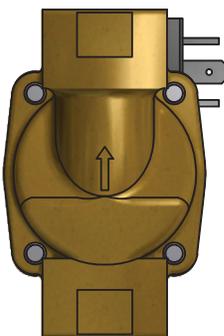
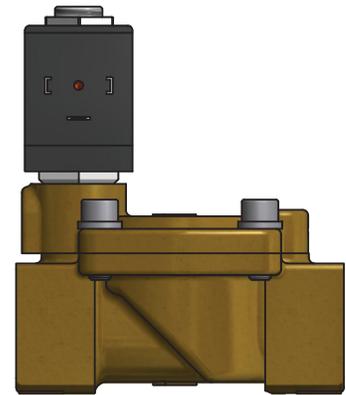
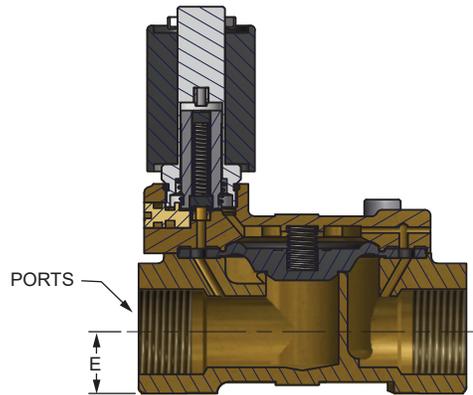
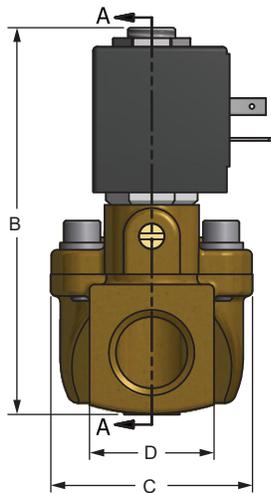
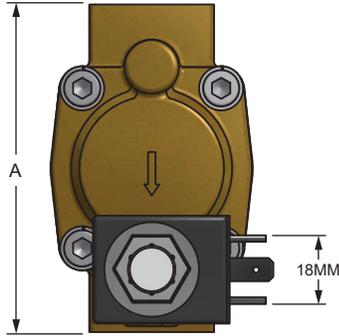
Series 4700

Diaphragm Process
Air-Sol 2-Way

The Spartan Scientific Series 4700 solenoid valves are designed specifically for high flow, high pressure applications. With orifice sizes of 20mm to 25mm and port sizes of 3/4" and 1" NPT, the valve is offered with a manual override standard. The coil is a quick connect DIN 43650 Form "A" design and is encapsulated for environment resistance. Typical applications include condensation removal, car washes, autoclaves or irrigation control.

Dimensional Data

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DIMENSIONAL TABLE		
PORTS	3/4"	1"
A	3.54	3.94
B	4.17	4.43
C	2.17	2.56
D	1.30	1.52
E	0.67	0.83

FLOW DATA	
PORT SIZE	FLOW RATE
3/4"	34 gpm
1"	53 gpm
120 psi Δ p 20 psi	

DIAPHRAGM
PROCESS



Series 4700

Diaphragm Process
Air-Sol 2-Way

Technical Data

Function: 2-Way, 2-Position; Internal Pilot Diaphragm;
Normally Closed or Normally Open

Port Size: 3/4" NPT
1" NPT

**Orifice Size /
Flow Factor:** 20mm / 9.10 Cv
25mm / 14.0 Cv

Pressure Range: 4.5 to 220 psi (depending on orifice size and function)

Temp. Range: Fluid Max.: +60°C
Dry Range: Ambient +10° to +50°C

Response Time: 40 to 90ms Complete Cycle

Media: Air, gasoline, oil, water
(contact factory for compatibilities)

Manual Override: Turn Lock (available on request)
Normally Open Version Only

**Environment
Protection:** IP65 (IEC 144), NEMA 4
Dust-tight and water resistant
(with electrical connector)

Mounting: On pipe

Wetted Materials: Elastomers: NBR
Operator: 300 and 400 Series Stainless Steel
Shading Ring: Copper (AC Only)
Springs: 300 Series Stainless Steel
Valve Body: Brass (others available on request)

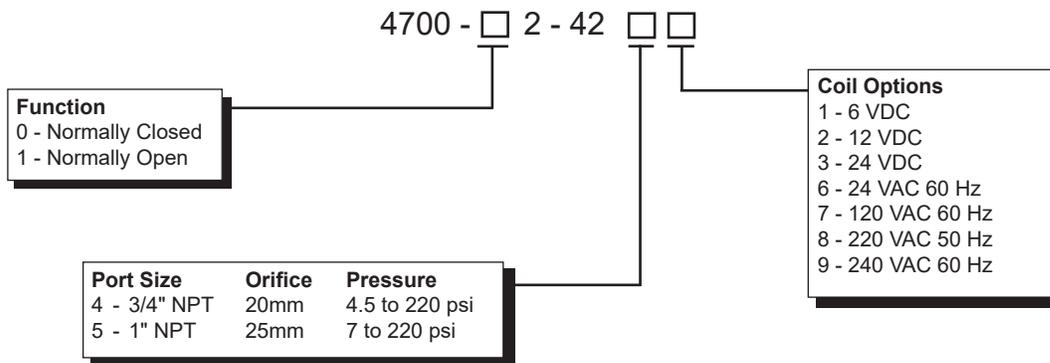
Coil Data: Duty Cycle: Continuous (within specifications)
Encapsulation: Glass-Filled Nylon
Insulation: Class F
Power Rating: 10 Watt VDC, 8 VA VAC
(others available on request)
Voltage: 6, 12, 24 VDC
24, 120, 220, 240 VAC 50/60 Hz
Voltage tolerance: +/- 10% Nominal
Winding: Class H

Connections: DIN Spades: Accordance with DIN 43650
Form "A" / ISO 4400, EN175301-803:2006
Flying Lead: PVC 18 AWG, Multi-Strand Copper Wire,
300V, 12" minimum length

Packaged Weight: 3/4": 2.0 lbs.
1.0": 2.8 lbs.

DIAPHRAGM
PROCESS

How To Order



Replacement Diaphragm Kits

Kit includes: Diaphragm, Spring and Brass Insert

Specify Part Number

3/4" NPT Nitrile - 4700-00-0004
1" NPT Nitrile - 4700-00-0005

Order Example: 4700-02-4247
Normally Closed, 3/4" NPT, 20mm orifice,
4.5 to 220 psi, 120 VAC 60 Hz