



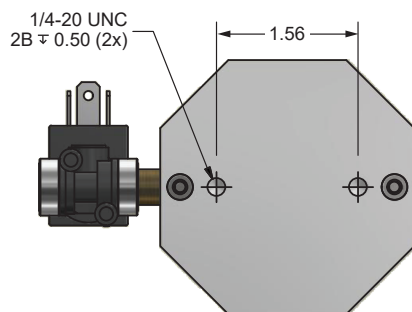
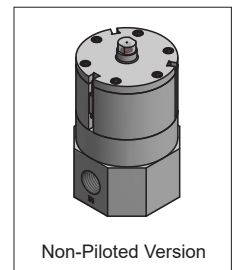
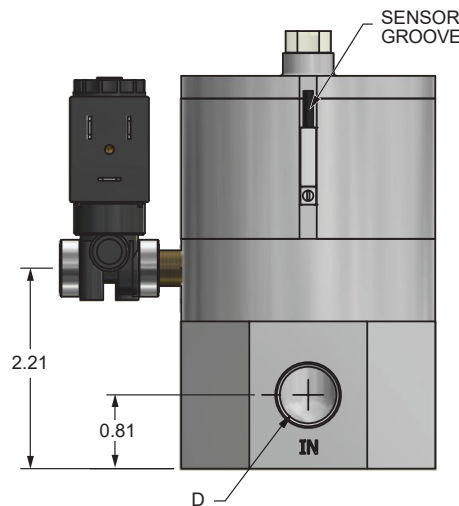
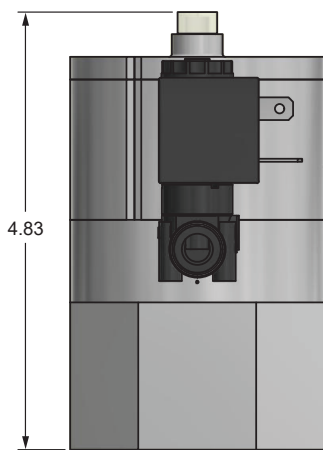
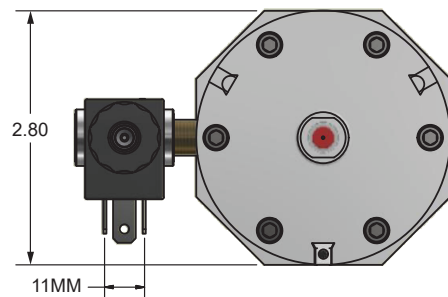
Series APVS15

Air Piloted 2-Way Media Separated Valve

The Spartan Scientific APVS15 is an inert gas/spring operated, Single Acting Normally Closed, or Double Acting media compatible diaphragm valve designed for control of high purity, aggressive and corrosive liquid chemical media. With a small overall footprint, and low dead volume, the APVS15 features CPVC bodies, and FKM, EDPM and NBR elastomers to control orifice sizes 16mm and 20mm which afford Cv ratings of 4.70 and 10.9 that far exceed competitive valves of this type. Pressure ratings go from 10 to 100 psi depending on orifice size and each valve is tested to bubble tight standard ANSI FCI 70-2 Class VI. The APVS15 can be controlled by our proven Spartan Scientific 3-way solenoid pilot valve which enhances operation with manual override and indicator lighted connector options. The Normally Closed version features an optical position indicator showing valve open condition. The APVS15 is used where sampling, draining, or transferring process fluid are performed. A Normally Open version can be made using a Normally Open pilot valve. In the case of pilot gas failure, the valve will fail closed. In the case where electric power is lost but pilot gas remains, the valve will remain open. An optional magnetic piston is available for end of stroke sensing when combined with the additional valve position sensor.

Dimensional Data

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DIFFERENTIAL PRESSURE CHART			
Port Size NPT (D)	Orifice Size	GPM @ 100 psi	Pilot Pressure (psi)
1/2"	16mm	30	60-100
3/4"	16mm	50	60-100
3/4"	20mm	58	60-80

AIR
PILOTED



Series APVS15

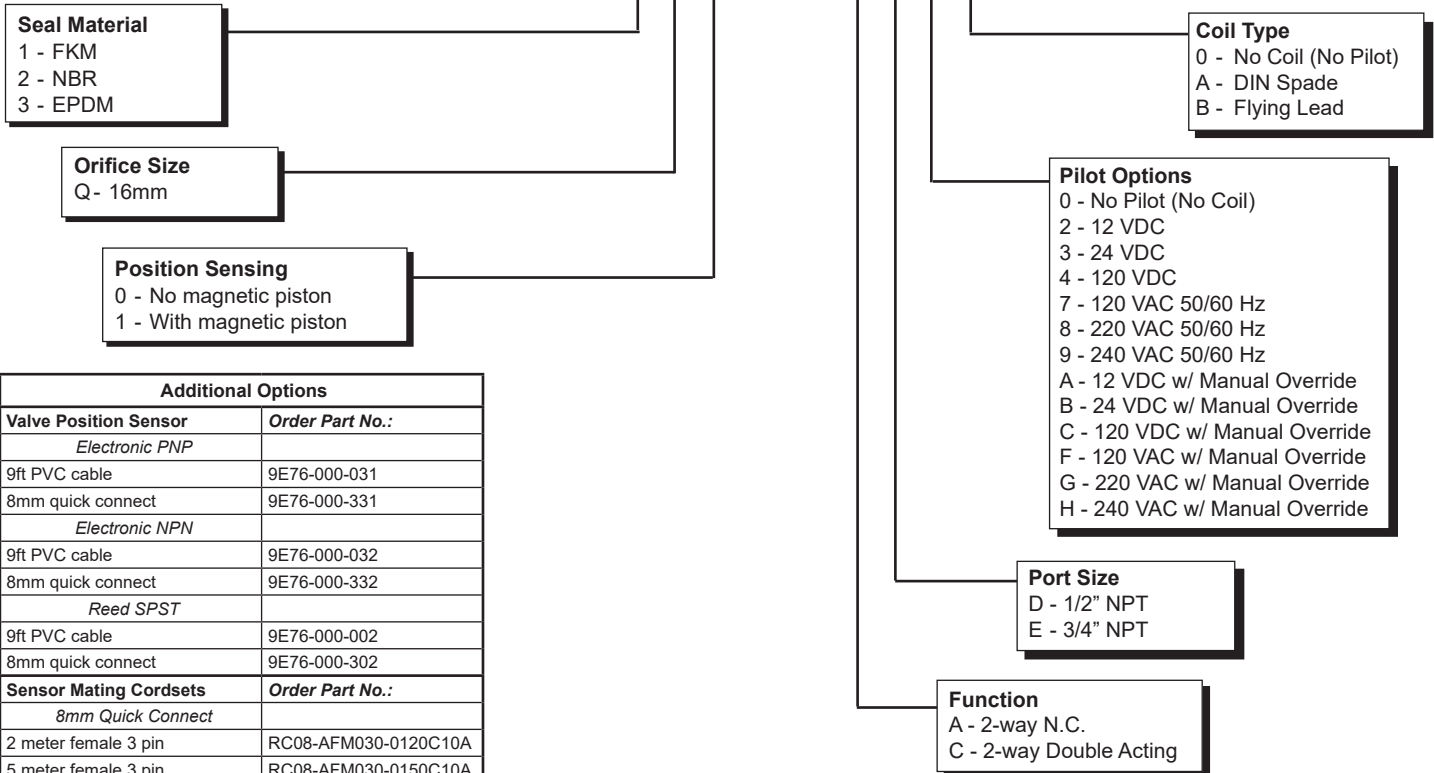
Air Piloted 2-Way
Media Separated Valve

Technical Data

Function:	Single Acting Normally Closed; or Double Acting, Air Piloted, media separated diaphragm valve	(Pilot Option) Pilot Data :	Elastomers: FKM, NBR, EPDM Function: 3-Way, 2-Position; Direct Acting; Normally Closed Pressure Range: 60 to 100 PSI Port Size: 1/8" NPT (Pilot Valve)
Port Size:	1/2" NPT 3/4" NPT (Others available on request)	Coil Data:	Duty Cycle: Continuous (within specifications) Encapsulation: Glass-Filled Nylon Insulation: Class F Power Rating: 6.5 Watts 8.5 VA Voltage: 12, 24, 120 VDC 120, 220, 240 VAC 50/60 Hz Voltage Tolerance: +/- 10% Nominal Winding: Class H
Orifice Sizes / Flow Factor:	16mm / 4.70 Cv 20mm / 10.9 Cv	Connections:	Spades: Terminals AMP 6.3x0.8 width 11mm (Available in DIN Style "A" EN175301-803 for 3.0mm orifice or larger) Flying Lead: PVC 22 AWG, Multi-Strand Copper Wire, 300V, 12" minimum length
Pressure Range:	10 to 100 psi Pilot Pressure Range: 60 to 100 psi (depending on orifice size)	Packaged Weight:	1.5 lbs. (add 0.25 lbs. for pilot)
Temp. Range:	Fluid Max.: +60°C Dry Range: Ambient +10°C to +50°C		
Media:	All fluids and gases compatible with wetted materials		
Mounting:	On pipe. (2x) 1/4" - 20 UNC Tapped Holes, 0.5" DP		
Wetted Materials:	Valve Body: CPVC (Others available on request) Elastomers: FKM, NBR, EPDM Fastener: 316 Stainless Steel or (PEEK optional)		

How To Order

APVS15 - 2 8 - D



Additional Options	
Valve Position Sensor	Order Part No.:
<i>Electronic PNP</i>	
9ft PVC cable	9E76-000-031
8mm quick connect	9E76-000-331
<i>Electronic NPN</i>	
9ft PVC cable	9E76-000-032
8mm quick connect	9E76-000-332
<i>Reed SPST</i>	
9ft PVC cable	9E76-000-002
8mm quick connect	9E76-000-302
Sensor Mating Cordsets	Order Part No.:
<i>8mm Quick Connect</i>	
2 meter female 3 pin	RC08-AFM030-0120C10A
5 meter female 3 pin	RC08-AFM030-0150C10A
Pilot Valve Lighted Connector	Order Part No.:
<i>6ft PVC Cable, Ground Down</i>	
Pilot Options 2, A - 12VDC	5J560-201-US0A
Pilot Options 3, B - 24VDC	5J560-201-US0A
Pilot Options 4, C - 120VDC	5J560-501-US0A
Pilot Options 7, F - 120VAC	5J560-501-US0A
Pilot Options 8, G - 220VAC	5J560-801-US0A
Pilot Options 9, H - 240VAC	5J560-801-US0A

Order Example: APVS15-1Q028-DAD7A
FKM, 16mm Orifice size,
No magnetic piston, 2-way N.C.,
1/2" NPT, 120 VAC 50/60 Hz, DIN Spade