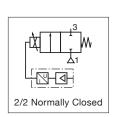
PRECIFLOW PROPORTIONAL VALVES



- Preciflow solenoid valves are designed to proportionally control the flow of air and inert gases by varying the electrical input signal to the coil
- Low hysteresis (< 5%), excellent repeatability (< 1%), and high sensitivity (< 0.1%) make these valves ideal for high precision flow control
- Compact frictionless architecture saves valuable space in analytical and medical instrumentation
- Valves do not require a minimum operating pressure, and are well-suited for vacuum operation
- Power consumption as low as 1 W to meet the most stringent instrument power requirements
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
 - Gas Chromatography
 - Mass Flow Controllers
 - Dental Equipment
 - Blood Pressure Monitoring





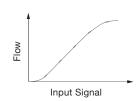


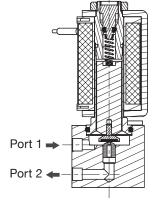


^{*} Ensure that the compatibility of the fluids in contact with the materials is verified

¹ Filtration: 5µm

General Valve Information			
Body	Brass		
Seals	FKM/FFKM		
Others	Stainless Steel		





Electrical Characteristics					
Coil Insulation Class	F				
Connector	Lead Wires 24 AWG; L = 500mm (19.7in)				
Electrical Safety	IEC 335				
Electrical Enclosure Protection	IP50				
Standard Voltages	6 VDC, 12 VDC, 24 VDC				
Voltage Regulation	0-6 VDC, 0-12 VDC, 0-24 VDC Pulse-width Modulation (> 1000Hz)				
Flow Regulation Characteristics	Hysteresis typ. 5%; Repeatability typ. 1%; Sensitivity typ. 0.1%				

Voltage	Max. Operating	Power Ratings			Ambient Temperature	
Current		Inrush	nrush Holding		Hot/Cold	Ranges
V	mA	VA	VA	W	W	°C (°F)
	170				1	
6	420				2.5	
40	85				1	0 to 55
12	210	-	-	-	2.5	(32 to 131)
0.4	45				1	
24	110				2.5	

pecifications									
Orifice Size	Flow Coefficient		Pressure Differential bar (psi)		Power Coil	Catalog Number			
mm (inches)	Kv (m3/h)	Cv	min.	max.	W	pad mount version			
0.045 (0.0018)	0.00006	0.00007	-0.9 (-13)	10 (145)	1	R202A540L0xxxxx			
0.07 (0.0023)	0.00012	0.00014	-0.9 (-13)	10 (145)	1	R202A541L0xxxxx			
0.1 (0.0040)	0.0003	0.00035	-0.9 (-13)	10 (145)	1	R202A542L0xxxxx			
0.2 (0.0079)	0.0012	0.00139	-0.9 (-13)	10 (145)	1	R202A543L0xxxxx			
0.4 (0.0157)	0.0048	0.0055	-0.9 (-13)	10 (145)	2.5	R202A544L0xxxxx			
0.6 (0.0236)	0.0096	0.0111	-0.9 (-13)	10 (145)	2.5	R202A545L0xxxxx			
0.8 (0.0315)	0.018	0.0208	-0.9 (-13)	10 (145)	2.5	R202A546L0xxxxx			

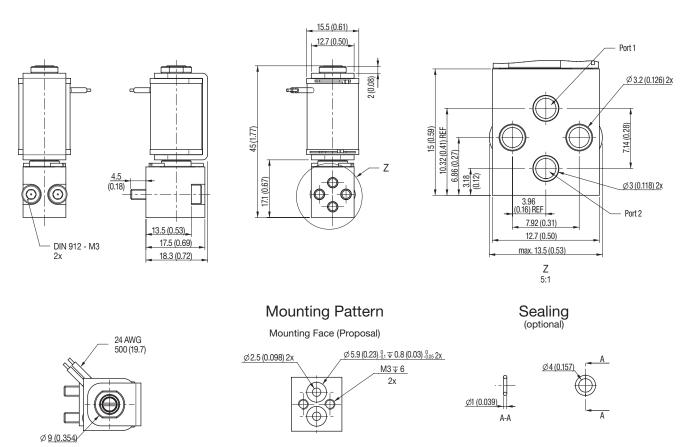


How to Order



Dimensions: mm (inches)

Dimensional Drawings



Options

- Digital control module Control for DIN EN 50022 rail mounting
 - Used as a current regulator in open loop applications
 - Used with an external sensor for closed-loop applications
- Other materials and voltages available on request
- Sealing FFKM: 514684-002, FKM: 514684-001 (minimum order quantity required)
- Subbase with M5 connections and O-ring seals available: PN 516134

Installation

 The solenoid valves can be mounted in any position without affecting operation