

GEM-SOL® | CPR (GEM-CPR)

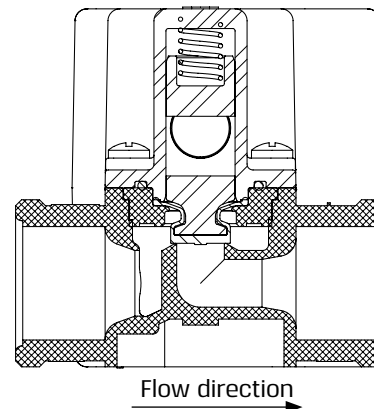
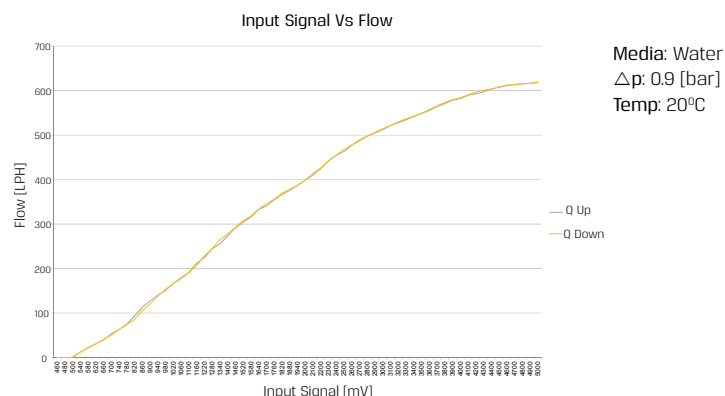
Precise Isolated Proportional 2 Way NC

Technical Data

Function	2 Way NC (with back-up battery)
Ports size	1/2" BSP & NPT
Orifice size	8mm (Up to 600 l/hour)
Pressure range	• Vacuum applications: (-1) - 0 Bar • Pressure applications: 0 - (+1) Bar *For other pressures, please consult our technical sales department
Temperature range	Fluid: -10° to 45°C (no freezing) Ambient: -10°C to 45°C
Materials	In contact with media: Valve body: • Standard: PPH (UV Protection) • Optional: According to customer demand or application (e.g Stainless steel) Diaphragm & seals: FKM, EPDM Not in contact with media: Operator housing: PP (UV protection) Manual override: Acetal (Manual override is standard)
Media	• Liquids & Gases *Please consult our technical sales department for a specific media • Application examples: • Irrigation fertilizing systems • Medical devices
Control signal	0-5V or 4-20mA or Pulse width 10-260 [ms]
Valve stroke resolution	< 0.01mm
Valve stroke accuracy	< ± 0.01 mm
Full stroke duration	0.6 sec, each direction
Current consumption	• Standby Mode (Holding position): 30 [mA] • Active Control Mode: Up to 70 [mA] • Full Open/Close Mode (starting current): Up to 180 [mA]
Supply voltage	12-24[V] ±10% DC *For other supply voltages, please consult our technical sales department *Current and voltage spikes protections might be required. Please consult our technical sales department
Connection	5 wires cable (3m length) : • Black & red: Supply voltage (polarity is not restricted) • Blue: 0-5 V analog control signal • Green: 4-20 mA analog signal or 10-260[ms] Pulse digital • Yellow: Analog control signal common
Recommended control signal resolution	Voltage: 20 mV Current: 0.064 mA Digital pulse 1 [ms]
Standard / Certification	CE • EMC: EN55011 Group 1 - Class A EN61000-6-1 CTR 47 FCC Class A • SAFETY: IEC/EN61010-1
Standard protection class	IP67

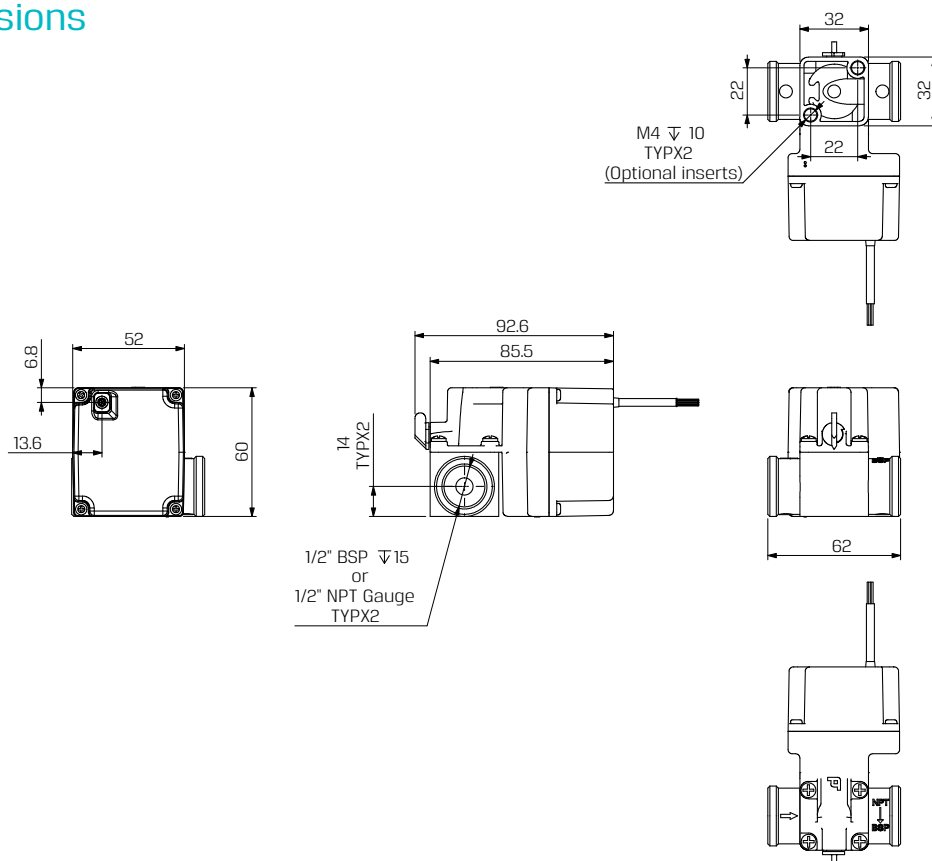


Typical Performance Graph



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Dimensions



How to Order

GEM-CPR		-		PORT		FUNCTION		PRESSURE		SEALS		MANUAL OVERRIDE		-		CONTROL SIGNAL		VOLTAGE	
1/2" BSP		40		2W NC		1		Vacuum		1		FKM		V		Plastic		1	
1/2" NPT		41						Pressure ⁽¹⁾		2		EPDM		E					
																0-5 V		1	
																4-20 mA		2	
																Digital		3	

Example: GEM-CPR-4011E1-11

GEM-SOL® CPR (GEM-CPR), Precise Isolated proportional valve, 1/2" BSP, 2W NC, Vacuum, EPDM seals, plastic manual override with 0-5V control signal, 12-24VDC

(1) Maximum inlet pressure: 1 bar

* Please specify the working pressure range when placing an order

* To order valves manufactured according to your specific requirements, please contact our technical sales department