Maxseal Solenoid Operated Valves





ICO3S 1/4" 3/2 PBMR

Typical Applications

Description

1/4" 3/2 PUSH BUTTON MANUAL RESET

Actuator Control

Direct Acting Solenoid Valve

Direct Acting Shut Off Valve

High Flow

Oil & Gas Applications

Turbine Fuel Control

A direct acting solenoid operated valve for the control of pneumatic or hydraulic operated equipment

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Reliable and long life, ideal for a one time installation

ATEX, CSA, GOST K & R and IECEX

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| | Standard Features | | | | | |
|---|--------------------------------------|---|---|--------------------------------|--|--|
| | Solenoid Materials of Construction | | Solenoid Pot - Stainless Steel | - BFC 316 | | |
| | | Top Cover - Stainless Steel- BFC 316 | | | | |
| | | Valve Body & Trim Materials - 316 Stainless Steel | | | | |
| | | | O-Rings Seats & Seals - Nitrile | e (NBR) | | |
| | | | Coil Insulation - Class H | | | |
| | Maximum Inlet Pressure | | 12 bar (174 psi) | | | |
| | Flow Rates | | $C_V = 0.6$ USgpm for 1 psi Δ | р | | |
| | | | $K_V = 8.64$ I/min for 1 bar Δp | | | |
| | Temperature Ratings | | Media (Min/Max -20°C/90°C) | - Ambient (Min/Max -50°C/60°C) | | |
| | Valve Size | ve Size 1/4" Poppet Valve | | | | |
| | Process Connections | | 1/4" NPT | | | |
| | Conduit Connection | | M20 x 1.5 Conduit Thread | | | |
| | Media | | Liquid & Gases | | | |
| | Weight | | 2.5 kg | | | |
| | | | | | | |
| | Recommended Spares Kits | | | | | |
| | Soft Spares (O-rings, Springs, etc.) | | Standard | Y013P01H000-SS | | |
| | | | Low Temperature valves | See Valve Data Sheet | | |
| | Spare Coil Assembly | | Standard 24V DC (3.0W) | Y01300101B0 | | |
| | | | Other Variations | See Valve Data Sheet | | |
| | | | | | | |
| | | | | | | |
| | Options | | | | | |
| | Valve Body & Trim Materials | | Please call for details | | | |
| | Low Temperature Options | | Please call for details | | | |
| | High Temperature Options | | Please call for details | | | |
| | Process Connections | | Thread 1/4" BSPP | | | |
| | Conduit Connection | | 1/2" NPT | | | |
| | Extreme Service | | Increased Power Consumption | n - Please call for details | | |
| | Product Lead Time | | Y013PA1H1BS - 1 week (subj | ect to quantities) | | |
| | | | Other variations: Please call fo | r possible delivery dates | | |
| l | | | | | | |

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| Technical Specification | |
|--|--|
| Pressures | |
| Test (Proof) Pressure | 15 bar (218 psi) |
| Maximum Inlet Pressure | 12 bar (174 psi) |
| ATEX Classification | Complies with ATEX Directive 94/9/EC |
| ATEX Certificate | SIRA 00ATEX1156 and SIRA 05 ATEX 5284 |
| Certification | II 2GD |
| (EX/ | \blacksquare Ex d IIC T6 (Ta = -60°C to + 50°C) or |
| | Ex d IIC T4 (Max Ambient = + 90°C) |
| | Ex mbe IIC T4 ($T_a = -60^{\circ}\text{C to} + 80^{\circ}\text{C}$) |
| | |
| IECEx Certificate | IECEx SIR 05.0029 and IECEx SIR 05.0056 |
| IECEX | Ex d IIC T6 ($T_a = -60^{\circ}\text{C to} + 50^{\circ}\text{C}$) or |
| | Ex d IIC T4 (Max Ambient = + 90°C) |
| GOST 'K' | Ex d IIC T6 ($T_a = -60^{\circ}\text{C to} + 50^{\circ}\text{C}$) |
| GOST 'R' | Ex d IIC T6 ($T_a = -60^{\circ}\text{C to} + 50^{\circ}\text{C}$) |
| Safety Integrity Level | SIL 3 or SIL 4 (SIL 4 in redundant configuration only) |
| Ingress Protection | IP66/X8 to BS EN 6052:1992, NEMA 4X |
| Voltage Surge Protection | Surge Suppression Diodes |
| Coil Insulation | Class H |
| | |
| Performance | |
| Pull-In Voltage | 87.5% of Nominal |
| Response Times | Pull-In <80 ms |
| | Drop-Out <60 ms |
| Electromagnetic Compatibility (EMC) | EN50081-1 EN50082-1 EN61000-4 parts 2,4,5 |
| | |
| Valve Symbol | |
| INLET - 'A' EXHAUST - 'C' INLET - 'A' EXHAUST - 'C' DE-ENERGISED | ENERGISED EXHAUST - 'A' INLET - 'C' EXHAUST - 'A' INLET - 'C' DE-ENERGISED |
| VALVE SYMBOL FOR ENERGISE TO OPEN (DE-ENERGISED TO CLOSE) (NORMALLY CLOSED) | VALVE SYMBOL FOR ENERGISE TO CLOSE (DE-ENERGISED TO OPEN) (NORMALLY OPEN) |

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Ordering Information

| Model | Operating Pressure | Port Config. | Operation | Process Conn. | Seat/Seal Materials | Conduit Connection | Voltage | Body/Trim Materials |
|-----------------------|------------------------|-----------------|-----------|------------------|------------------------|-----------------------|-----------|------------------------|
| Y0 | 1 | 3 | Р | A1 | Н | 1 | В | S |
| Y0 IC03S Ex d | barg psi) | psi) ERSAL | Æ | A1 1/4" NPT | H Nitrile | 1 M20 x 1.5 | B 24V DC | 316 SS / |
| YZ IC03S Ex mbe | 0-12 barg (174 psi) | 3/2 UNIVERSAL | PBMR | E1 1/4" BSPP | V Viton® | 2 1/2" NPT | E 125V DC | S 316 SS |

Ordering Example

| Y0 | 1 | 3 | Р | E1 | V | 2 | Е | S |
|-----------------|------------------------|------------|------|--------------|--------|----------|---------|--------------------|
| ICO3S Ex mbe | 0-12 barg (174 psi) | 3/2 UNI | PBMR | 1/4" BSPP | Viton® | 1/2" NPT | 125V DC | 316 SS / 316 SS |

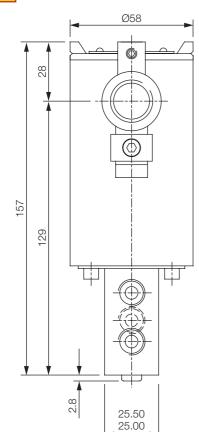
Power Consumption (At Nominal)

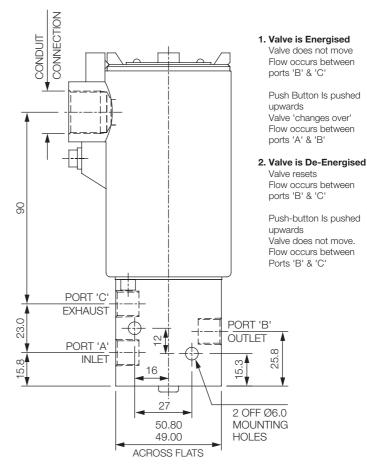
| DC Standard | | | | | | |
|-------------|------|--|--|--|--|--|
| 24V DC | 3.0W | | | | | |
| 125V DC | 3.0W | | | | | |

| AC Standard | |
|-------------------------|------|
| Please Call for Informa | tion |

Extreme Service
Please Call for Information

Profile and Dimensions mm





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