Maxseal Solenoid Operated Valves





ICO3S 1/4" 3/2 PBMO

Typical Applications 1/4" 3/2 PUSH BUTTON MANUAL OVERRIDE 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 Reliable and long life, ideal for a one time installation

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ATEX, CSA, GOST K & R and IECEX

ICO3S 1/4" 3/2 PBMO

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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 (NBR)		
		Coil Insulation - Class H		
Maximum Inlet Pressure		12 bar (174 psi)		
Flow Rates		$C_V = 0.6$ USgpm for 1 psi Δ_I	р	
		$K_V = 8.64$ l/min for 1 bar Δp		
Temperature Ratings		Media (Min/Max -20°C/90°C) -	- Ambient (Min/Max -50°C/60°C)	
Valve 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	Y013C01H000-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 cetails	
Product Lead Time		Y013CA1H1BS - 1 week (subj	ect to quantities)	
		Other variations: Please call for	r possible delivery dates	
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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 528	
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ATEX Certificate SIRA 00ATEX1156 and SIRA 05 ATEX 528	
_	34
Certification	
\square Ex d IIC T6 (T _a = -60°C to + 50°C) or	
Ex d IIC T4 (Max Ambient = + 90°C)	
Ex mbe IIC T4 ($T_a = -60$ °C to + 80°C)	
IECEx Certificate IECEx SIR 05.0029 and IECEx SIR 05.0050	6
■ IECEx ■ Ex d IIC T6 (T _a = -60°C to + 50°C) or	
Ex d IIC T4 (Max Ambient = + 90°C)	
GOST 'K' Ex d IIC T6 (T _a = -60°C to + 50°C)	
GOST 'R' Ex d IIC T6 (Ta = -60°C to + 50°C)	
Safety Integrity Level SIL 3 or SIL 4 (SIL 4 in redundant configura	ation 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	
ENERGISED ENERGISED	
INLET - 'A' EXHAUST - 'A'	
EXHAUST - 'C' H 'B' - OUTLET INLET - 'C' H	3' - OUTLET
INLET - 'A' H 'B' - OUTLET EXHAUST - 'A' H 'E	B' - OUTLET
EXHAUST - 'C'	
DE-ENERGISED DE-ENERGISEI	·D
	.U
DE-ENERGISED DE-ENERGISEI	
VALVE SYMBOL FOR VALVE SYMBOL	FOR
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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	С	A1	Н	1	В	S
Y0 IC03S Ex d	0-12 barg (174 psi)			H Nitrile	1 M20 x 1.5	B 24V DC	s 316 SS /	
YZ IC03S Ex mbe			V Viton®	2 1/2" NPT	E 125V DC	S 316 SS		

Ordering Example

Y0	1	3	С	A1	V	2	Е	S
ICO3S Ex mbe	0-12 barg (174 psi)	3/2 UNI	PBMO	1/4" NPT	Viton®	1/2" NPT	125V DC	316 SS / 316 SS

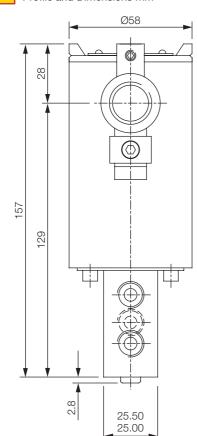
Power Consumption (At Nominal)

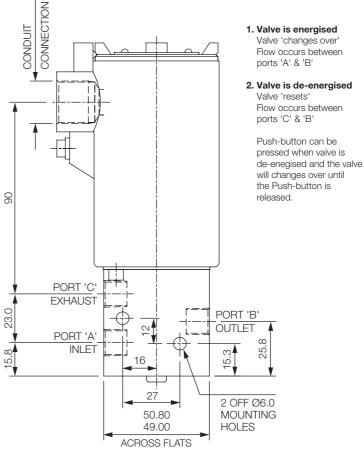
DC Standard						
24V DC	3.0W					
125V DC	3.0W					

AC Standard	
Please Call for Information	

Extreme Service Please Call for Information

Profile and Dimensions mm





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