Maxseal Solenoid Operated Valves





ICO4S 1/4" 5/2 PBMR

Thompson Valves Ltd Typical Applications Description 1/4" 5/2 PUSH BUTTON MANUAL RESET Model: 1/24 5/3 Lini Direct Acting 1

- 1/4" 5/2 PUSH BUTTON MANUAL RESET

 Model: ICO4S 1/4" 5/2 Uni Direct Acting Solenoid Valve
- Actuator Control Low Pressure, High Flow
- Oil & Gas Applications

 Max Inlet Pressure 20 bar (290 psi)
- Turbine Fuel Control Reliable and long life, ideal for a one time installation
 - Control of pneumatic or hydraulic operated equipment

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ICO4S 1/4"	
5/2 PRMR	

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Solenoid Operated Valves

Standard Features	ICO4S 1/4" 5/2 PBMR			
Solenoid Materials of Construction	Solenoid Pot - Stainless Steel - BFC 3	316		
	Top Cover - Stainless Steel- BFC 316	6		
	Valve Body & Trim Materials - 316 Sta	ainless Steel		
	O-Rings Seats & Seals - High Nitrile (I	NBR)		
	Coil Insulation - Class H			
Maximum Inlet Pressure	20 Bar (290 PSI)			
Flow Rates	C _V = 0.8 USgpm for 1 psi Δp			
	$K_V = 11.5$ I/min for 1 bar Δp			
Temperature Ratings	Media (Min/Max -20°C/90°C) - Ambie	ent (Min/Max 0°C/60°C)		
Valve Size	1/4" Balanced Poppet Valve			
Process Connections	1/4" NPT			
Conduit Connection	M20 x 1.5 Conduit Thread			
Media	Liquid & Gases			
Weight	7.5 Kg			
Recommended Spares Kits				
Soft Spares (O-rings, Springs etc)	Standard & Extreme Service	Y125A010000-SS		
Spare Coil Assembly	Standard 24V DC (4.5 Watts)	Y125P0101B0		
	Other Variations	See Valve Data Sheet		
Options				
Valve Body & Trim Materials	Aluminium Bronze - Sea Water Applications			
	Titanium - Extreme Service Applications			
Process Connections	Thread - 1/4" BSPP			
Conduit Connection	1/2" NPT			
Product lead time	Y125PA1H1BS - 1 WEEK (SUBJECT	TO QUANTITIES)		
	Other Variations - Please call for possible delivery dates			
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Technical Specification		
Pressures		
Test (Proof) Pressure		30 bar (435 PSI)
Maximum Inlet Pressure		20 Bar (290 PSI)
ATEX Clasification		Complies with ATEX Directive 94/9/EC
ATEX Certificate		SIRA 00ATEX1147
Certification		II 2G
(F.)		EExd IIC T6 (T_a = -60°C to + 48°C) or
		EExd IIC T4 (T_a = -60°C to + 90°C)
IECEx		IECEx BAS 04.0019
		EExd IIC T6 ($T_a = -40^{\circ}$ C to + 60°C) or
		EExd IIC T4 ($T_a = -40^{\circ}$ C to + 90°C)
GOST 'K'		EExd IIC T6 ($T_a = -40^{\circ}$ C to + 60°C)
GOST 'R'		EExd IIC T6 ($T_a = -40^{\circ}$ C to + 60°C)
Safety Integrity Level		Suitable for SIL 3 Application in Simplex Mode
		Suitable for SIL 4 Application in Duplex Mode
Ingress Protection		IP66/X8, NEMA 4X
Voltage Surge Protection		Surge Suppression Diodes
Coil Insulation		Class H
Performance		
Pull-in Voltage		87.5% of Nominal
Response Times		Pull-In <150ms
		Drop-Out <80ms
Electromagnetic Compability (EMC)		EN50081-2/82-1
Valve Symbol		
ENER	RGIS	ED
EXHAUST — 'A'		'D' OUTLET
INLET - 'C'		'B' — OUTLET 'D' — OUTLET
EXHAUST - 'E'		
EXHAUST — 'A'		'B' — OUTLET
INLET - 'C' EXHAUST - 'E'		'D' - OUTLET
	<u> </u>	-
DE-EN	<	

VALVE SYMBOL

Solenoid Operated Valves



Ordering Information

Model	Operating Pressure	Port Config.	Operation	Process Connection	Seat/Seal Materials	Conduit Connection	Voltage	Body/Trim Materials
Y1	2	5	Р	A1	Н	1	В	S
			,				A 18/33V DC	
		ı	S [i	A1	Н	1	B 24V DC	
	Barg psi)	5/2 VERSAL	JTTC RESI			·	C 50V DC	
94	Barg psi)	2 E		1/4" NPT	High Nitrile	M20x1.5	D 110V DC	S
ICO4S)-20 (290		JAL JAL	E1	V	2	E 125V DC	316 SS / 316 SS
<u> </u>	0-7	<u>Z</u>	요된			_	G 25V AC	
		ر	PUSI	1/4" BSPP	Viton®	1/2" NPT	J 110V AC	
							M 240V AC	

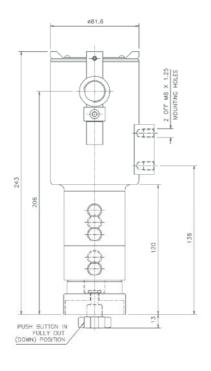
Ordering Example

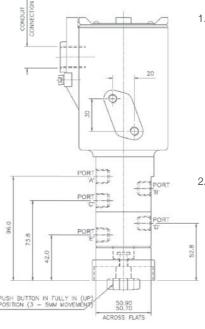
Y1	2	5	Р	A1	V	1	J	S
ICO4S	0-20 Barg (290 psi)	5/2 UNI	PBMR	1/4" NPT	Viton®	M20 x 1.5	110V AC	316 SS / 316 SS

Power Consumption (At Nominal)

DC Star	ndard	AC Standard		
24V DC	15.1 W	25V AC	13.3 W	
50V DC	16.6 W	110V AC	14.2 W	
110V DC	15.6 W	240V AC	17.9 W	
125V DC	15.1 W			

Profile and Dimensions mm





 Valve is energised Valve does not move. Flow occurs between ports 'B' & 'C' ports 'D' & 'E'

> Push button is pushed upwards Valve 'changes over' Flow occurs between ports 'A' & 'B' ports 'C' & 'D'

2. Valve is de-energised
Valve resets
Flow occurs between
ports 'B' & 'C'
ports 'D' & 'E'

Push button is pushed upwards Valve does no move. Flow occurs between ports 'B' & 'C' ports 'D' & 'E'

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