Maxseal Solenoid Operated Valves





ICO4S 1/4" 2/2 AUTO

Typical Applications

- 1/4" 2/2 ENERGISE TO OPEN AUTOMATIC
- 1/4" 2/2 ENERGISE TO CLOSE AUTOMATIC
- Actuator Control
- Direct Acting Shut Off Valve
- Oil & Gas Applications
- Turbine Fuel Control

Thompson Valves Ltd

- Description
- Model: ICO4S 1/4" 2/2 EO & EC
- Direct Acting Solenoid Valve
- Low Pressure, High Flow
- Max Inlet Pressure 20 bar (290 psi)
- Reliable and long life, ideal for a one time installation
 - Control of pneumatic or hydraulic operated equipment

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ICO4S 1/4" 2/2 AUTO

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Standard Features	ICO4S 1/4" 2/2 AUTO			
Solenoid Materials of Construction	Solenoid Pot - Stainless Steel - BFC 316			
	Top Cover - Stainless Steel- BFC 316			
	Valve Body & Trim Materials - 316 Sta	ainless Steel		
	O-Rings Seats & Seals - High Nitrile (N	NBR)		
	Coil Insulation - Class H			
Maximum Inlet Pressure	20 Bar (290PSI)			
Flow Rates	$C_V = 0.8$ USgpm for 1 psi Δp			
	$K_V = 11.5$ l/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	5.0 Kg			
Recommended Spares Kits				
Soft Spares (O-rings, Springs etc)	Standard & Extreme Service	Y123A010000-SS		
	Low Temperature valves	See Valve Data Sheet		
Spare Coil Assembly	Standard 24V DC (4.5 Watts)	Y123A0101B0		
	Other Variations	See Valve Data Sheet		
Options				
Valve Body & Trim Materials	Aluminium Bronze - Sea Water Applic	ations		
	Titanium - Extreme Service Application	ns		
Low Temperature Options	O-Rings - Low Nitrile / Fluorosilicone ((Min Med/Amb -40°C/-40°C)		
High Temperature Options	High Temperature Spacer (Max Med/	Amb 120°C/60°C)		
	Please Call for Dimensions			
Process Connections	Thread - 1/4" BSPP			
Conduit Connection	1/2" NPT			
Extreme Service	Increased Power Consumption			
Product lead time	Y121AA1H1BS - 1 WEEK (SUBJECT	TO QUANTITIES)		
	Y122AA1H1BS - 1 WEEK (SUBJECT TO QUANTITIES)			
	Other Variations - Please call for possi	ible delivery dates		

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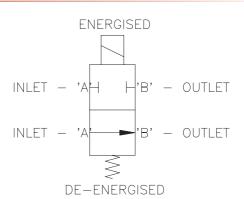


Technical Specification	
Pressures	
Test (Proof) Pressure	30 bar (435 PSI)
Maximum Inlet Pressure	20 Bar (290PSI)
ATEX Clasification	Complies with ATEX Directive 94/9/EC
ATEX Certificate	SIRA 00ATEX1147
Certification	□ II 2G
(5)	EExd IIC T6 (Ta= -60°C to + 48°C) or
	EExd IIC T4 (T _a = -60°C to + 90°C)
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 $+ 90^{\circ}$ 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



VALVE SYMBOL FOR ENERGISE TO OPEN (NORMALLY CLOSED) 20 BAR MAX WORKING PRESSURE



VALVE SYMBOL FOR ENERGISE TO CLOSE (NORMALLY OPEN) 20 BAR MAX WORKING PRESSURE

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Ordering Information

Model	Operating Pressure	Port C	Config.	Operation	Process Connection	Seat/Seal Materials	Conduit Connection	Voltage	Body/Trim Materials
Y1	2	1	2	Α	A1	Н	1	В	S
								A 18/33V DC	S 316 SS /
	m _	z	Ж		A1	Н	1	B 24V DC	316 SS
လ္	Barg psi)	ENG/OPEN	ENG/CLOSE	ţ <u>i</u> .	1/4" NPT	High Nitrile	M20x1.5	C 50V DC	M Alu Brnz /
ICO48	0 F	<u>[</u> 2/C	JG/C	na				G 25V AC	Alu Brnz
\circ)-20 (290			Automatic	E1	V	2	J 110V AC	3
	2/2	Ā	1/4" BSPP	Viton®	1/2" NPT	M 240V AC	Titanium / Titanium		
						VICOLIO		R 115V DC	Harlluffi

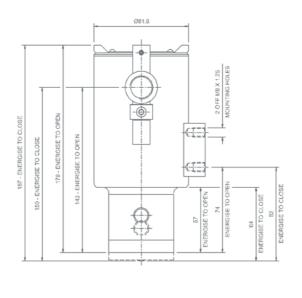
Ordering Example

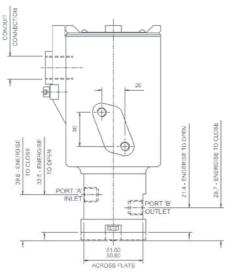
Y1	2	1	А	A1	V	2	М	S
ICO4S	0-20 Barg (290 psi)	2/2 EO	Auto	1/4" NPT	VITON®	1/2" NPT	240V AC	316 SS / 316 SS

Power Consumption (At Nominal)

DC Standard	d	AC Sta	andard	Extreme Service		
18 / 33V DC (24V DC)	7.5 W	25V AC	6.5 W	24V DC	9.6 W	
24V DC	4.5 W	110V AC	6.5 W	Others A	vailable	
50V DC	5.5 W	240V AC	6.2 W			
115V DC (110V DC)	8.0 W					
115V DC (125V DC)	10.4 W					

Profile and Dimensions mm





2/2 ENERGISE TO OPEN

 Valve is energised Valve 'changes over'

Flow occurs between ports 'A' & 'B'

2. Valve is de-energised Valve resets

No flow occurs between ports 'A' & 'B'

2/2 ENERGISE TO CLOSE

 Valve is energised Valve 'changes over'

No flow occurs between ports 'A' & 'B'

2. Valve is de-energised Valve resets

Flow occurs between ports 'A' & 'B'

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