# Maxseal Solenoid Operated Valves





ICO4S 1/4" 3/2 JSMO

Typical Applications

1/4" 3/2 JACK SCREW MANUAL OVERRIDE

Actuator Control

Direct Acting Shut Off Valve

Oil & Gas Applications

Turbine Fuel Control

## Thompson Valves Ltd

Description

Model: ICO4S 1/4" 3/2 Uni 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" 3/2 JSMO

## Thompson Valves Ltd. - **Maxseal** Solenoid Operated Valves

4" 3/2 JSMO				
Solenoid Pot - Stainless Steel - BFC 316				
Top Cover - Stainless Steel- BFC 316				
ly & Trim Materials - 316 Stainless Steel				
Seats & Seals - High Nitrile (NBR)				
ation - Class H				
90PSI)				
USgpm for 1 psi Δp				
5 I/min for 1 bar Δp				
n/Max -20°C/90°C) - Ambient (Min/Max 0°C/60°C)				
nced Poppet Valve				
Conduit Thread				
Gases				
& Extreme Service Y123A010000-SS				
& Extreme Service Y123A010000-SS Derature valves See Valve Data Sheet				
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Technical Specification	
Pressures	
Test (Proof) Pressure	30 bar (435 PSI)
Maximum Inlet Pressure	20 Bar (290PSI)
Maximum inlet pressure when	15 bar (218 PSI)
used in 'Universal Operation'	
ATEX Clasification	Complies with ATEX Directive 94/9/EC
ATEX Certificate	SIRA 00ATEX1147
Certification	☐ II 2G
(E)	EExd IIC T6 (T <sub>a</sub> = -60°C to + 48°C) or
	EExd IIC T4 (T <sub>a</sub> = -60°C to + 90°C)
IECEx	IECEx BAS 04.0019
	EExd IIC T6 ( $T_a = -40^{\circ}\text{C to} + 60^{\circ}\text{C}$ ) or
	EExd IIC T4 ( $T_a = -40^{\circ}\text{C to} + 90^{\circ}\text{C}$ )
GOST 'K'	EExd IIC T6 (T <sub>a</sub> = -40°C to + 60°C)
GOST 'R'	EExd IIC T6 ( $T_a = -40^{\circ}\text{C to} + 60^{\circ}\text{C}$ )
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	
ENERGISED	ENERGISED
INLET - 'A' EXHAUST - 'C'H	EXHAUST - 'A' B' - OUTLET
INLET - 'AH 'B' - OUTLI	EXHAUST - 'AH 'B' - OUTLET
EXHAUST - 'C'	INLET - 'C'

VALVE SYMBOL FOR ENERGISE TO OPEN (DE-ENERGISED TO CLOSE) (NORMALLY CLOSED) (NORMALLY OPEN)
20 BAR MAX WORKING PRESSURE 15 BAR MAX WORKING PRESSURE STANDARD OPERATION

DE-ENERGISED

VALVE SYMBOL FOR ENERGISE TO CLOSE (DE-ENERGISED TO OPEN) UNIVERSAL OPERATION

DE-ENERGISED

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### Ordering Information

Model	Operating Pressure	Port Config.	Operation	Process Connection	Seat/Seal Materials	Conduit Connection	Voltage	Body/Trim Materials
Y1	2	3	S	A1	Н	1	В	S
	0-20 Barg (290 psi) 3/2 UNIVERSAL						A 18/33V DC	S 316 SS /
		<u>&gt;</u>	A1	Н	1	B 24V DC	316 SS	
တ္		38/	S S S S S S S S S S S S S S S S S S S	1/4" NPT	High Nitrile	M20x1.5	C 50V DC	M Alu Brnz /
ICO4S		JACK SC MANU OVERF					G 25V AC	Alu Brnz
<u>O</u>			E1	V	2	J 110V AC	3	
		5 5	1/4" BSPP	Viton®	1/2" NPT	M 240V AC	Titanium /	
					VILORIO		R 115V DC	Titanium

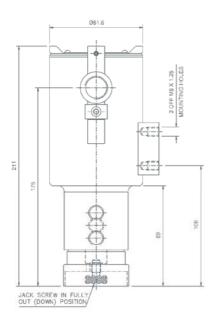
### Ordering Example

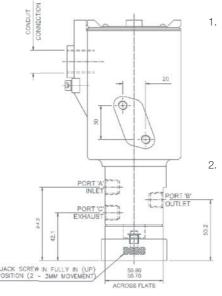
Y1	2	3	S	E1	Н	1	В	М
ICO4S	0-20 Barg (290 psi)	3/2 UNI	JSMO	1/4" BSPP	High Nitrile	M20 x 1.5	24V DC	Alu Brnz / Alu Brnz

#### Power Consumption (At Nominal)

DC Standard		AC Sta	andard	Extreme Service		
18 / 33V DC (24V DC)	7.7 W	25V AC	6.5 W	24V DC	9.6 W	
24V DC	4.5 W	110V AC	6.5 W	Others Available		
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





- Jack screw in fully out (down) position Valve operates as an automatic Valve is energised Flow occurs between ports 'A' & 'B' Valve is de-energised Flow occurs between ports 'B' & 'C'
- Jack screw in fully in (up) position Flow occurs between ports 'A' & 'B'

When the valve is energised or de-energised, the valve will remain until the Jack screw is returned to the fully out position

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