Maxseal Solenoid Operated Valves



ICO4S 1/2" 3/2 JSMO





1/2" 3/2 JACK SCREW MANUAL OVERRIDE

Actuator Control

Direct Acting Shut Off Valve

Oil & Gas Applications

Turbine Fuel Control

Description

- Model: ICO4S 1/2" 3/2 JSMO 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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Thompson Valves Ltd. - Maxseal Solenoid Operated Valves

Standard Features	ICO4S 1/2" 3/2 JSMO	
Solenoid Materials of Construction	Solenoid Pot - Stainless Steel - BFC 3	316
	Top Cover - Stainless Steel- BFC 316	i
	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 (290 PSI)	
Flow Rates	$C_V = 4.2$ USgpm for 1 psi Δp	
	$K_V = 46$ 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	1/2" Balanced Poppet Valve	
Process Connections	1/2" 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 (Viton® & High Nitrile)	Y123A030000-SS
Son Spares (O-migs, Springs etc)	Low Temperature valves	See Valve Data Sheet
Spare Coil Assembly	Standard 24V DC (15.1 Watts)	Y123A0301B0
	Other Variations	See Valve Data Sheet
Options		
Valve Body & Trim Materials	Aluminium Bronze - Sea Water Applications	
	Titanium - Extreme Service Applications	
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 - 1/2" BSPP	
Conduit Connection	1/2" NPT	
Product lead time	Y123SA3H1BS - 2 WEEKS (SUBJECT TO QUANTITY)	
	Other Variations - Please call for poss	ible delivery dates



Technical Specification		
Pressures		
Test (Proof) Pressure	3	30 bar (435 PSI)
Maximum Inlet Pressure	2	20 Bar (290 PSI)
ATEX Clasification	C	Complies with ATEX Directive 94/9/EC
ATEX Certificate	S	SIRA 00ATEX1147
Certification		2G
$\langle \mathcal{E}_{\mathbf{x}} \rangle$	E	Exd IIC T6 ($T_a = -60^{\circ}C$ to $+ 48^{\circ}C$) or
	E	Exd IIC T4 (T _a = -60°C to + 90°C)
IECEx	E IE	ECEx BAS 04.0019
	E	Exd IIC T6 (T _a = -40°C to + 60°C) or
	E	Exd IIC T4 (T _a = -40°C to + 90°C)
GOST 'K'	E	Exd IIC T6 (T _a = -40°C to + 60°C)
GOST 'R'	E	Exd IIC T6 (T _a = -40°C to + 60°C)
Safety Integrity Level	S S	Suitable for SIL 3 Application in Simplex Mode
	S	Suitable for SIL 4 Application in Duplex Mode
Ingress Protection	IF	P66/X8, NEMA 4X
Voltage Surge Protection	S	Surge Suppression Diodes
Coil Insulation		Class H
Performance		
Pull-in Voltage	8	37.5% of Nominal
Response Times	P	Pull-In <150ms
		Drop-Out <80ms
Electromagnetic Compability (EMC)	E	EN50081-2/82-1
Valve Symbol		
ENERGISED INLET - 'A' EXHAUST - 'C' INLET - 'A' EXHAUST - 'C' B' - OUTLET 'B' - OUTLET B' - OUTLET B' - OUTLET B' - OUTLET		ENERGISED EXHAUST - 'A' INLET - 'C' EXHAUST - 'A' INLET - 'C' B' - OUTLET B' - OUTLET 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)



Ordering Information Operating Seat/Seal Conduit Body/Trim Process Voltage Port Config. Operation Model Connection Materials Connection Materials Pressure Y1 2 З S A3 В S Н 1 А 18/33V DC S 316 SS / MANUAL OVERRIDE 24V DC В 316 SS AЗ Н 1 JACK SCREW JNIVERSAI D-20 Barg 50V DC (290 psi) ICO4S М 1/2" NPT High Nitrile M20x1.5 D 110V DC Alu Brnz / 3/2 Alu Brnz 125V DC Е V E3 2 G 25V AC 3 1/2" BSPP 1/2" NPT Viton® 110V AC Titanium / J Titanium M 240V AC Ordering Example Y1 2 3 S A3 Н 2 Μ 3 0-20 Barg Titanium / 1/2" NPT 3/2 UNI JSMO 1/2" NPT 240V AC ICO4S High Nitrile (290 psi) Titanium Power Consumption (At Nominal) DC Standard AC Standard 18 / 33V DC (24V DC) CALL 25V AC 13.3 W 24V DC 15.1 W 110V AC 14.2 W 50V DC 16.6 W 240V AC 17.9 W 110V DC 15.5 W 125V DC 15.1 W Profile and Dimensions mm Ø82.1 Jack screw in fully 1. -Ó out (down) position NG HOLES 2 OFF M8 X 1.25 Valve operates as an automatic Valve is energised -0 Flow occurs between ports 'A' & 'B' (HE Valve is de-energised Flow occurs between ports 'B' & 'C' (HE 2. Jack screw in fully 265 in (up) position Flow occurs between 228 ports 'A' & 'B' NLF When the valve is energised 160 PORT 'B' OUTLET or de-energised, the valve 142 will 'change over' until the jack screw is returned 101.9 to the fully out position 79.9 57.9 JACK SCREW IN FULL OUT (DOWN) POSITIO JACK SCREW IN FULLY IN (UF POSITION (3 - 5MM MOVEMEN) 70.10 69.90 ACROSS FLATS

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