Maxseal Solenoid Operated Valves





ICO2S 1/4" 3/2 JSMO

Thompson Valves Ltd

Typical Applications

1/4" 3/2 JACKSCREW MANUAL OVERRIDE

Intrinsically Safe

Pilot Assisted Control Valve

Hazardous Area Applications

Description

Model: ICO2S 1/4" 3/2 JSMO

Pilot Assisted Solenoid Valve

High Flow

Max Inlet Pressure 20 bar (290 psi)

Pilot Pressure 3-7 bar

Reliable and long life, ideal for a one time installation

A pilot assisted solenoid operated valve for the control of pneumatic or hydraulic operated equipment

ICO2S 1/4" 3/2 JSMO

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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 - High Nitrile (NBR)
		Coil Insulation - Class H
	Maximum Inlet Pressure	20 bar (290 psi)
	Pilot Pressure	3-7 bar
	Flow Rates	$C_V = 0.8$ USgpm for 1 psi Δp
		$K_V = 11.52$ I/min for 1 bar Δp
	Temperature Ratings	Media (Min/Max -20°C/90°C) - Ambient (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
	Signal Connection	1/4" NPT
	Media	Gas or Air
	Pilot Media	Instrument Air
	Weight	4.5 kg
	Recommended Spares Kits	
	Soft Spares (O-rings, Springs, etc.)	Y2H23S01S000000-SS
	Spare Coil Assembly	Please call
	Options	
	Process Connections	1/4" BSPP
	Conduit Connection	1/2" NPT
	Signal Connections	1/4" BSPP
	Product Lead Time	Y2H23SA1SA10300 - 4 weeks
		Other variations: Please call for possible delivery dates

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Tech	hnical Specification	
Pres	ssures	
Test	t (Proof) Pressure	30 bar (435 psi)
Max	kimum Inlet Pressure	20 bar (290 psi)
Pilot	t Test (Proof) Pressure	12 bar (174 psi)
Pilot	t Pressure	3-7 bar (43-102 psi)
ATE	X Classification	Complies with ATEX Directive 94/9/EC
ATE	EX Certificate	SIRA 00ATEX2113
Cert	tification	☐ II 1G
	(CX)	Ex ia IIC T6 ($T_a = -40^{\circ}\text{C to} + 64^{\circ}\text{C}$)
Intri	nsically Safe Circuit	
	HAZARDOUS AREA	SAFE AREA
	INTRINSICALLY SAFE SOLENOID	O THE POWER TO THE INTRINSICALLY SAFE HAZARDOUS AREA EQUIPMENT IS SUPPLIED VIA A CERTIFIED ENERGY LIMITING DEVICE, WITH AN ELECTRICAL OUTPUT THAT DOES NOT EXCEED 28V OR 300 mA AND 1.3W.
Ingre	ess Protection	P66/X8 to BS EN 6052:1992, NEMA 4X
Volta	age Surge Protection	Surge Suppression Diodes
Coil	Insulation	Class H
	formance -in Voltage	87.5% of Nominal
Res	ponse Times	Pull-In <150 ms Drop-Out <80 ms
Elec	etromagnetic Compatibility (EMC)	EN50081-1 EN50082-1 EN61000-4 parts 2,4,5
Valv	ve Symbol	
	INLET - 'A' EXHAUST - 'C' INLET - 'A' EXHAUST - 'C' DE-ENERGISED	EXHAUST - 'A' INLET - 'C' EXHAUST - 'A' INLET - 'C' 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)

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Ordering Information

Model		Operating Pressure		Operation	Process Conn.	Protection / Coil Housing	Conduit / Sig. Conn.	Voltage/ Signal	Body/Trim Materials	Options
Y2	Н	2	3	S	A1	S	Α	1	03	00
ICO2S	H High Nitrile	bar psi	3/2 UNIVERSAL	JACKSCREW MANUAL OVERRIDE	A1 1/4" NPT	Ex ia IIC T6	A M20 ISO 1/4" NPT	24V DC / 3-7 barg	316SS / 316SS	None
							B M20 ISO 1/4" BSPP			
		0-20			E1 1/4" BSPP		D 1/2" NPT 1/4" NPT			
			.,				E 1/2" NPT 1/4" BSPP			

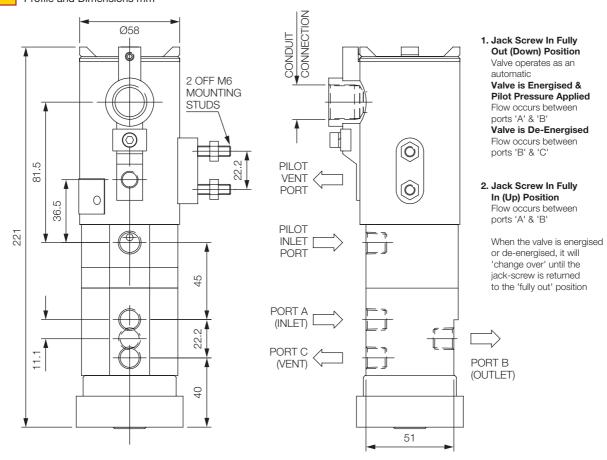
Ordering Example

Y2	V	2	3	S	E1	S	В	1	03	00
ICO2S	V Viton®	0-20 barg (290 psi)	3/2 UNI	JSMO	1/4" BSPP	Ex ia IIC T6	M20 ISO 1/4" BSPP		316SS / 316SS	None

Power Consumption (At Nominal)

	DC Standard			
24V DC		0.5	W	

Profile and Dimensions mm



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