Maxseal Solenoid Operated Valves





ICO2S 1/4" 3/2 A.L.L



Typical Applications

1/4" 3/2 AUTOMATIC LATCHING LEVER

Intrinsically Safe

Pilot Assisted Control Valve

Hazardous Area Applications

Description

Model: ICO2S 1/4" 3/2 A.L.L

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 A.L.L

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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 kg
Recommended Spares Kits	
Soft Spares (O-rings, Springs, etc.)	Y2H23B01S000000-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	Y2H23BA1SA10300 - 4 weeks
	Other variations: Please call for possible delivery dates

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7	Technical Specification						
F	Pressures						
7	Test (Proof) Pressure	30 bar (435 psi)					
N	Maximum Inlet Pressure	20 bar (290 psi)					
F	Pilot Test (Proof) Pressure	12 bar (174 psi)					
F	Pilot Pressure	3-7 bar (43-102 psi)					
A	ATEX Classification	Complies with ATEX Directive 94/9/EC					
,	ATEX Certificate	SIRA 00ATEX2113					
(Certification	☐ II 1G					
		Ex ia IIC T6 ($T_a = -40$ °C to + 64°C)					
I	Intrinsically Safe Circuit						
	HAZARDOUS AREA	SAFE AREA					
	INTRINSICALLY O SAFE SOLENOID TYPE ICO2S EX. 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.					
ı	ngress Protection	☐ IP66/X8 to BS EN 6052:1992, NEMA 4X					
\	Voltage Surge Protection	Surge Suppression Diodes					
	Coil Insulation	Class H					
	Performance Pull-in Voltage	87.5% of Nominal					
	Response Times	Pull-In <150 ms					
	теарилае піпеа	Drop-Out <80 ms					
	Electromagnetic Compatibility (EMC)	EN50081-1 EN50082-1 EN61000-4 parts 2,4,5					
	Valve Symbol	EN30001-1 EN00002-1 EN01000-4 parts 2,4,0					
	ENERGISED	ENERGISED					
	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

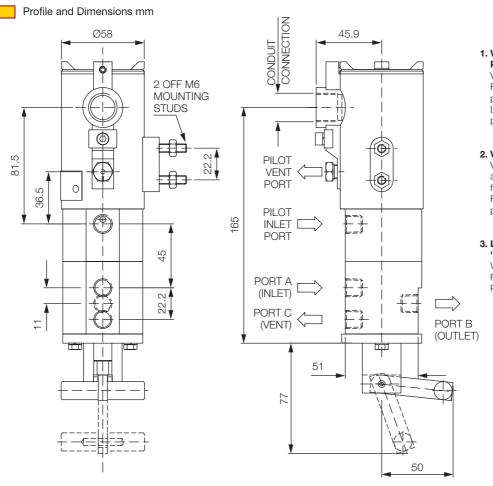
Model	Seat/Seal Materials	Operating Pressure	Port Config.	Operation	Process Conn.	Protection / Coil Housing	Conduit / Sig. Conn.	Voltage/ Signal	Body/Trim Materials	Options
Y2	Н	2	3	В	A1	S	Α	1	03	00
ICO2S	H High Nitrile	barg psi)) /ER	A1 1/4" NPT	ia IIC T6	A M20 ISO 1/4" NPT	3-7 barg	316SS /	None
			VERSAL	MATIC G LEV			B M20 ISO 1/4" BSPP			
	V (Z)	3/2 UNIVERSAL AUTOMATIC	AUTOM/ TCHING	E1	EX:	D 1/2" NPT 1/4" NPT	24V DC /	316SS	S	
			.,	P .	1/4" BSPP		E 1/2" NPT 1/4" BSPP			

Ordering Example

Y2	Н	2	3	В	E1	S	В	1	03	00
ICO2S	High Nitrile	0-20 barg (290 psi)	3/2 UNI	A.L.L	1/4" BSPP	Ex ia IIC T6	M20 ISO 1/4" BSPP		316SS / 316SS	None

Power Consumption (At Nominal)

	DC Standard	
24V DC	0.5W	



Valve is Energised & Pilot Pressure Applied Valve is because average

Valve 'changes over' Flow occurs between ports 'A' & 'B' Lever moves to 'latched' position.

2. Valve is De-Energised

Valve stays in position as lever prevents valve from 'changing over' Flow occurs between ports 'A' & 'B'

3. Lever is Moved to 'Normal' Position

Valve 'changes over' Flow occurs between Ports 'B' & 'C'

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