Maxseal Solenoid Operated Valves





ICO2S 1/2" 2/2 **AUTO**

Thompson Valves Ltd Typical Applications Description

- 1/2" 2/2 AUTOMATIC
- Intrinsically Safe
- Pilot Assisted Control Valve
- Hazardous Area Applications

- Model ICO2S 1/2" 2/2 AUTO
 - 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

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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	$C_V = 4.2$ USgpm for 1 psi Δp
	$K_V = 60.48$ I/min for 1 bar Δp
Temperature Ratings	Media (Min/Max -20°C/90°C) - Ambient (Min/Max 0°C/60°C)
Valve Size	1/2" Balanced Poppet Valve
Process Connections	1/2" NPT
Conduit Connection	M20 x 1.5 Conduit Thread
Signal Connection	1/4" NPT
Media	Gas or Air
Pilot Media	Instrument Air
Weight	6 kg
Recommended Spares Kits	
Soft Spares (O-rings, Springs, etc.)	Y2H21A03S000000-SS
Spare Coil Assembly	Please call
Options	
Process Connections	1/2" BSPP
Conduit Connection	1/2" NPT
Signal Connections	1/4" BSPP
Product Lead Time	Y2H21AA3SA10300 - 4 weeks
	Other variations: Please call for possible delivery dates

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Technical Specification						
Pressures						
Test (Proof) Pressure	30 bar (435 psi)					
Maximum Inlet Pressure	20 bar (290 psi)					
Pilot Test (Proof) Pressure	12 bar (174 psi)					
Pilot Pressure	3-7 bar (43-102 psi)					
ATEX Classification	Complies with ATEX Directive 94/9/EC					
ATEX Certificate	SIRA 00ATEX2113					
Certification	□ II 1G					
(EX/	\Box Ex ia IIC T6 (Ta = -40°C to + 64°C)					
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.					
Ingress Protection	☐ IP66/X8 to BS EN 6052:1992, NEMA 4X					
Voltage Surge Protection	Surge Suppression Diodes					
Coil Insulation	Class H					
Performance Pull-in Voltage Response Times	87.5% of Nominal Pull-In <150 ms					
	Drop-Out <80 ms					
Electromagnetic Compatibility (EMC)	EN50081-1 EN50082-1 EN61000-4 parts 2,4,5					
Valve Symbol						
ENERGISED	ENERGISED					
INLET - 'A' 'B' - OUTLET	INLET - 'A' H 'B' - OUTLET INLET - 'A' B' - OUTLET					
DE-ENERGISED	DE-ENERGISED					
VALVE SYMBOL FOR ENERGISE TO OPEN (NORMALLY CLOSED)	VALVE SYMBOL FOR ENERGISE TO CLOSE (NORMALLY OPEN)					



Ordering Information

Model		Operating Pressure		Operation	Process Conn.	Protection / Coil Housing	Conduit / Sig. Conn.	Voltage/ Signal	Body/Trim Materials	Options
Y2	Н	2	1	А	АЗ	S	А	1	03	00
	H High Nitrile () (isd.		to OPEN 5 CLOSE	Automatic	A3 1/2" NPT	ia IIC T6	A M20 ISO 1/4" NPT	3-7 barg	316SS /	None
ICO2S		0 2					B M20 ISO 1/4" BSPP			
00	V Viton®		Autor	E3	EX isi	D 1/2" NPT 1/4" NPT	24V DC /	316SS	S	
			, 0		1/2" BSPP		E 1/2" NPT 1/4" BSPP	Ö		

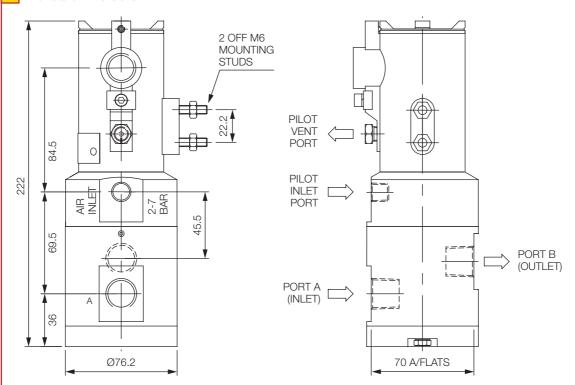
Ordering Example

Y2	V	2	2	А	E3	S	В	1	03	00
ICO2S	V Viton®	0-20 barg (290 psi)	2/2 EC	Auto	1/2" BSPP	Ex ia IIC T6	M20 ISO 1/4" BSPP	24V DC / 3-7 barg	316SS / 316SS	None

Power Consumption (At Nominal)

	DC Standard		
24V DC		0.5W	

Profile and Dimensions mm



2/2 ENERGISE TO OPEN

Valve is Energised & Pilot Pressure Applied Valve 'changes over' Flow occurs between ports 'A' & 'B'

2. Valve is De-Energised Valve resets No flow occurs between ports 'A' & 'B'

1. Valve is Energised & Pilot Pressure Applied Valve 'changes over' No flow occurs between

ports 'A' & 'B'

2/2 ENERGISE TO CLOSE

2. Valve is De-Energised Valve resets Flow occurs between ports 'A' & 'B'

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