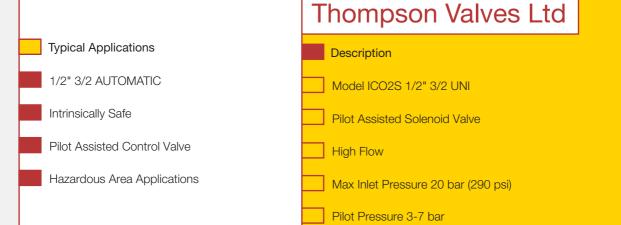
Maxseal Solenoid Operated Valves





ICO2S 1/2" 3/2 AUTO



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 1/2" 3/2 AUTO

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

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
	$K_V = 60.48$ l/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	7 kg
Recommended Spares Kits	
Soft Spares (O-rings, Springs, etc.)	Y2H23A03S000000-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	Y2H23AA3SA10300 - 4 weeks
	Other variations: Please call for possible delivery dates

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Pressures 30 bar (435 psi) Maximum Intel Pressure 20 bar (295 psi) Maximum Intel Pressure 20 bar (290 psi) Pilot Pressure 12 bar (174 psi) Pilot Pressure 3-7 bar (43-102 psi) ATEX Classification Complies with ATEX Directive 94/9/EC ATEX Classification Complies with ATEX Directive 94/9/EC ATEX Classification Safe AREA ATEX Cartfootte Silf A 00ATEX2113 Certification Bra 00ATEX2115 Certification Bra 00ATEX2115 Certification Bra 00ATEX2115 Certification Bra 00ATEX2115 ATEX Cartfootte Silf A 00ATEX2115 ATEX Cartfootte Safe AREA Intrinsically Safe Circuit Safe AREA Ni Filinsically Safe Circuit AZARDOUS AREA Safe AREA AZARDOUS AREA	Technical Specification					
Maximum Inlet Pressure	Pressures					
Pilot Test (Proof) Pressure	Test (Proof) Pressure	30 bar (435 psi)				
Pilot Pressure 3.7 bar (43-102 pai) ATEX Classification	Maximum Inlet Pressure	20 bar (290 psi)				
ATEX Classification	Pilot Test (Proof) Pressure	12 bar (174 psi)				
ATEX Certification Certification II 1G Ex is III C 16 (Ta = -40°C to + 64°C) Intrinsically Safe Circuit HAZARDOUS AREA INTRINSICALLY SAFE AREA INTRINSICALLY SAFE SOLENOID TYPE ICO2S EX. Ingress Protection Ingress Prot	Pilot Pressure	3-7 bar (43-102 psi)				
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Intrinsically Safe Circuit HAZARDOUS AREA INTRINSICALLY SAFE SOLENOID TYPE IOOZS EX. Intrinsically Safe Circuit HAZARDOUS AREA INTRINSICALLY SAFE SOLENOID TYPE IOOZS EX. Intrinsically Safe AREA SAFE AREA INTRINSICALLY SAFE HAZARDOUS AREA EQUIPMENT IS SUPPLIED VIA A CERTIFIED ENERGY FLIMITING DEVOCE, WITH AN ELECTIFICAL OUTPUT HAIT DOES NOT EXCEED 28V OR 900 mA AND 1.3W. Ingress Protection IP66/X8 to BS EN 6052:1992, NEMA 4X Voltage Surge Protection Surge Suppression Diodes Coil Insulation Coil Insulation Coil Insulation Performance Pull-in Voltage B87.5% of Nominal Performance Pull-in Voltage B87.5% of Nominal Prop-Out <80 ms Electromagnetic Compatibility (EMC) EN50081-1 EN50082-1 EN61000-4 parts 2,4,5 Valve Symbol ENERGISED ENERGISED ENERGISED VALVE SYMBOL FOR	ATEX Certificate	SIRA 00ATEX2113				
Intrinsically Safe Circuit HAZARDOUS AREA INTRINSICALLY SAFE HAZARDOUS AREA COUPMENT IS SUPPLIED VIA A CHITIFIC 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 < 150 ms Drop-Out <80 ms Electromagnetic Compatibility (EMC) EN50081-1 EN50082-1 EN61000-4 parts 2,4,5 Valve Symbol ENERGISED ENERGISED ENERGISED EXHAUST - 'C' B' - OUTLET INLET - 'A' B' - OUTLET INLET - 'C' B' - OUTLET IN	Certification	☐ II 1G				
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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 Protection Ingress	Intrinsically Safe Circuit					
INTRINSICALLY SAFE SOLENOID TYPE ICO2S EX. SAFE SOLENOID TYPE ICO2S EX. Ingress Protection Ingress Prot	HAZARDOUS AREA	SAFE AREA				
Voltage Surge Protection Surge Suppression Diodes Coil Insulation Class H Performance Pull-in Voltage Response Times 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 EXHAUST - 'A' EXHAUST - 'C' EXHAUST -	INTRINSICALLY SAFE SOLENOID TYPE ICO2S EX.	HAZARDOUS AREA EQUIPMENT IS SUPPLIED VIA A CERTIFIED ENERGY LIMITING DEVICE, WITH AN ELECTRICAL OUTPUT THAT DOES				
Coil Insulation Class H Performance Pull-in Voltage	Ingress Protection	☐ IP66/X8 to BS EN 6052:1992, NEMA 4X				
Performance Pull-in Voltage 87.5% of Nominal Response Times 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 ENERGISED EXHAUST - 'A' B' - OUTLET INLET - 'C' EXHAUST -	Voltage Surge Protection	Surge Suppression Diodes				
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ENERGISED ENERGISED ENERGISED EXHAUST - 'A' EXHAUST - 'C' INLET - 'A' EXHAUST - 'C' INLET - 'A' EXHAUST - 'C' VALVE SYMBOL FOR VALVE SYMBOL FOR						
ENERGISED ENERGISED ENERGISED EXHAUST - 'A' EXHAUST - 'A' INLET - 'A' INLET - 'A' EXHAUST - 'C' INLET - 'C' EXHAUST - 'C' EXHAUST - 'C' EXHAUST - 'A' EXHAUST -	Electromagnetic Compatibility (EMC)	EN50081-1 EN50082-1 EN61000-4 parts 2,4,5				
INLET - 'A' EXHAUST - 'C' INLET - 'A' EXHAUST - 'C' INLET - 'A' EXHAUST - 'C' INLET - 'C' EXHAUST -	Valve Symbol					
(DE-ENERGISED TO CLOSE) (DE-ENERGISED TO OPEN)	INLET - 'A' EXHAUST - 'C' INLET - 'A' EXHAUST - 'C' DE-ENERGISED VALVE SYMBOL FOR ENERGISE TO OPEN	EXHAUST - 'A' INLET - 'C' EXHAUST - 'A' INLET - 'C' WALVE SYMBOL FOR ENERGISE TO CLOSE				

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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	А	АЗ	S	А	1	03	00
				Automatic	A3 1/2" NPT	Ex ia IIC T6	A M20 ISO 1/4" NPT	3-7 barg	316SS /	None
ICO2S		bar psi	psi)				B M20 ISO 1/4" BSPP			
001	v Viton®	3/2 UNIVERSAL	Autoi	E3 1/2" BSPP	Ä Ä E	D 1/2" NPT 1/4" NPT	24V DC /	316SS	S N	
						E 1/2" NPT 1/4" BSPP	Ž			

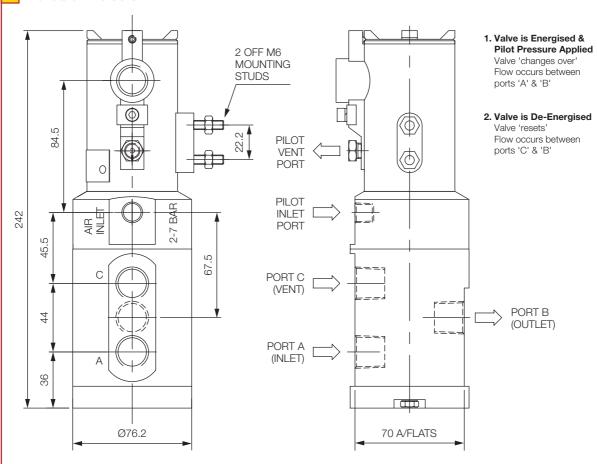
Ordering Example

Y2	V	2	3	А	E3	S	В	1	03	00
ICO4S	V Viton®	0-20 barg (290 psi)	3/2 UNI	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



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