

Maxseal Solenoid Operated Valves

Thompson

ICO3S
1/4" 5/2



Typical Applications

- 1/4" 5/2 Automatic
- Pushbutton Manual Override
- Pushbutton Manual Reset
- Actuator Control
- Direct Acting Shut Off Valve
- Oil & Gas Applications
- Turbine Fuel Control

Thompson Valves Ltd

Description

- Model ICO3S 1/4" 5/2 UNI
- Direct Acting Solenoid Valve
- High Flow
- Max Inlet Pressure 12 bar (174 psi)
- A direct acting solenoid operated valve for the control of pneumatic or hydraulic operated equipment
- Reliable and long life, ideal for a one time installation
- ATEX, CSA, GOST K & R and IECEX

Standard Features

<input type="checkbox"/> Solenoid Materials of Construction	<input type="checkbox"/> Solenoid Pot - Stainless Steel - BFC 316
	<input type="checkbox"/> Top Cover - Stainless Steel - BFC 316
	<input type="checkbox"/> Valve Body & Trim Materials - 316 Stainless Steel
	<input type="checkbox"/> O-Rings & Seals - Nitrile (NBR)
	<input type="checkbox"/> Coil Insulation - Class H
<input type="checkbox"/> Maximum Inlet Pressure	<input type="checkbox"/> 12 bar (174 psi)
<input type="checkbox"/> Flow Rates	<input type="checkbox"/> $C_v = 0.6$ USgpm for 1 psi Δp
	<input type="checkbox"/> $K_v = 8.64$ l/min for 1 bar Δp
<input type="checkbox"/> Temperature Ratings	<input type="checkbox"/> Media (Min/Max -20°C/90°C) - Ambient (Min/Max -50°C/60°C)
<input type="checkbox"/> Valve Size	<input type="checkbox"/> 1/4" Poppet Valve
<input type="checkbox"/> Process Connections	<input type="checkbox"/> 1/4" NPT
<input type="checkbox"/> Conduit Connection	<input type="checkbox"/> M20 x 1.5 Conduit Thread
<input type="checkbox"/> Media	<input type="checkbox"/> Liquid & Gases
<input type="checkbox"/> Weight	<input type="checkbox"/> 2.1 kg

Recommended Spares Kits


<input type="checkbox"/> Soft Spares (O-rings, Springs, etc.)	<input type="checkbox"/> Standard	Y015A01H000-SS
	<input type="checkbox"/> Low Temperature valves	See Valve Data Sheet
<input type="checkbox"/> Spare Coil Assembly	<input type="checkbox"/> Standard 24V DC (7.8W)	Y01500101B0
	<input type="checkbox"/> Other Variations	See Valve Data Sheet

Options

<input type="checkbox"/> Valve Body & Trim Materials	<input type="checkbox"/> Please call for details
<input type="checkbox"/> Low Temperature Options	<input type="checkbox"/> Please call for details
<input type="checkbox"/> High Temperature Options	<input type="checkbox"/> Please call for details
<input type="checkbox"/> Process Connections	<input type="checkbox"/> Thread 1/4" BSPP
<input type="checkbox"/> Conduit Connection	<input type="checkbox"/> 1/2" NPT
<input type="checkbox"/> Extreme Service	<input type="checkbox"/> Increased Power Consumption - Please call for details
<input type="checkbox"/> Product Lead Time	<input type="checkbox"/> Y015AA1H1BS - 3 weeks (subject to quantities)
	<input type="checkbox"/> Other variations: Please call for possible delivery dates

Technical Specification

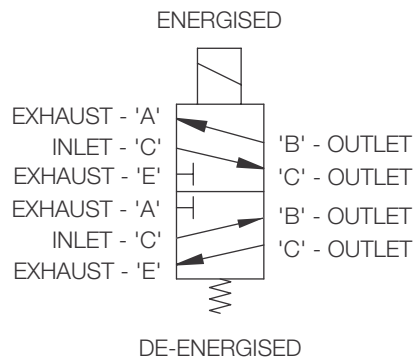
Pressures

Test (Proof) Pressure	<input type="checkbox"/> 18 bar (261 psi)
Maximum Inlet Pressure	<input type="checkbox"/> 12 bar (174 psi)
ATEX Classification	<input type="checkbox"/> Complies with ATEX Directive 94/9/EC
ATEX Certificate	<input type="checkbox"/> SIRA 00ATEX1156 and SIRA 05 ATEX 5284
Certification 	<input type="checkbox"/> II 2GD <input type="checkbox"/> Ex d IIC T6 (T _a = -60°C to + 50°C) or <input type="checkbox"/> Ex d IIC T4 (Max Ambient = + 90°C) <input type="checkbox"/> Ex mbe IIC T4 (T _a = -60°C to + 80°C)
IECEX Certificate	<input type="checkbox"/> IECEX SIR 05.0029 and IECEX SIR 05.0056
IECEX	<input type="checkbox"/> Ex d IIC T6 (T _a = -60°C to + 50°C) or <input type="checkbox"/> Ex d IIC T4 (Max Ambient = + 90°C)
GOST 'K'	<input type="checkbox"/> Ex d IIC T6 (T _a = -60°C to + 50°C)
GOST 'R'	<input type="checkbox"/> Ex d IIC T6 (T _a = -60°C to + 50°C)
Safety Integrity Level	<input type="checkbox"/> SIL 3 or SIL 4 (SIL 4 in redundant configuration only)
Ingress Protection	<input type="checkbox"/> IP66/X8 to BS EN 6052:1992, NEMA 4X
Voltage Surge Protection	<input type="checkbox"/> Surge Suppression Diodes
Coil Insulation	<input type="checkbox"/> Class H

Performance

Pull-In Voltage	<input type="checkbox"/> 87.5% of Nominal
Response Times	<input type="checkbox"/> Pull-In <80 ms <input type="checkbox"/> Drop-Out <60 ms
Electromagnetic Compatibility (EMC)	<input type="checkbox"/> EN50081-1 EN50082-1 EN61000-4 parts 2,4,5

Valve Symbol





Ordering Information

Model	Operating Pressure	Port Config.	Operation	Process Conn.	Seat/Seal Materials	Conduit Connection	Voltage	Body/Trim Materials
Y0	1	5	A	A1	H	1	B	S
Y0 ICO3S Ex d	0-12 barg (174 psi)	5/2 UNIVERSAL	A = AUTO P = PBMR C = PBMO	A1 1/4" NPT	H Nitrile	1 M20 x 1.5	B 24V DC	S 316 SS / 316 SS
YZ ICO3S Ex mbe				E1 1/4" BSPP	V Viton®	2 1/2" NPT	E 125V DC	

Ordering Example

YZ	1	5	A	E1	V	2	E	S
ICO3S Ex mbe	0-12 barg (174 psi)	5/2 UNI	AUTO	1/4" BSPP	Viton®	1/2" NPT	125V DC	316 SS / 316 SS

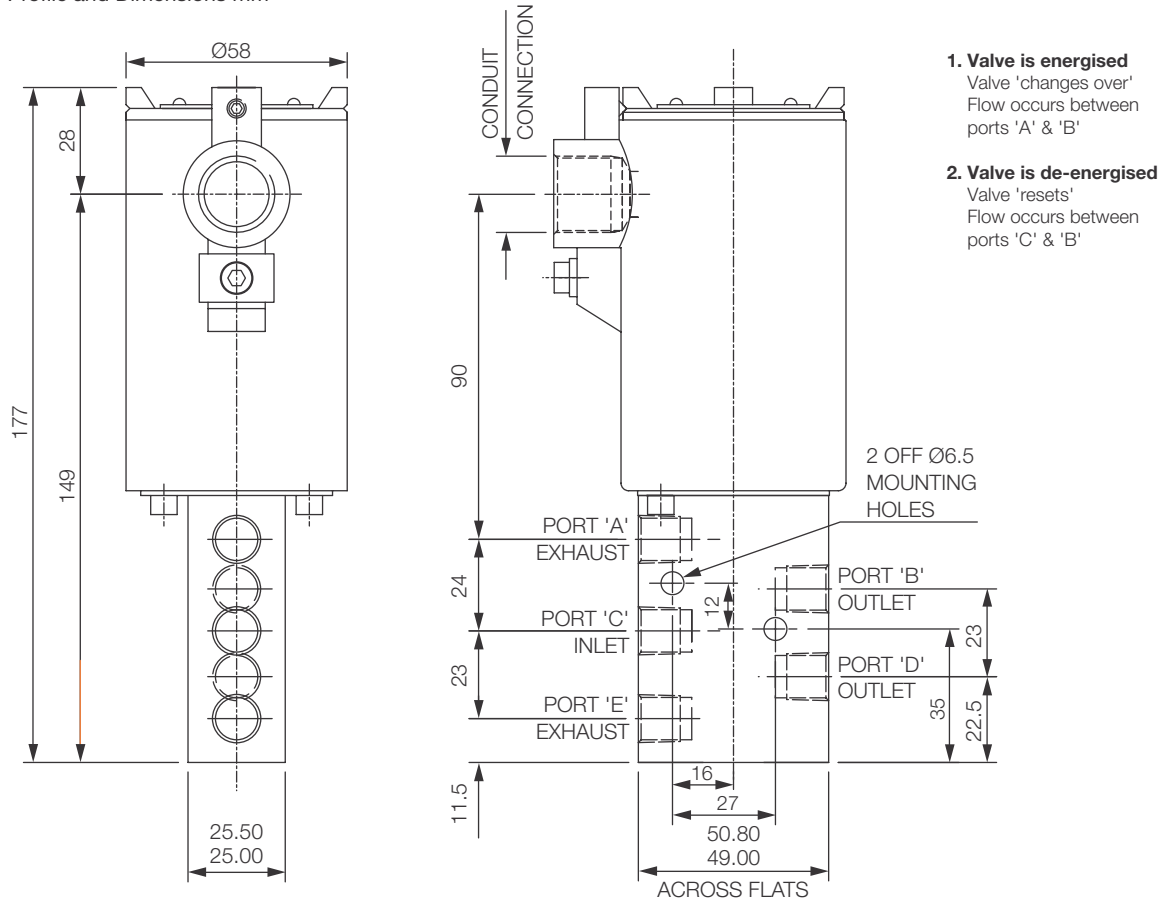
Power Consumption (At Nominal)

DC Standard	
24V DC	7.8W
125V DC	8.7W

AC Standard
Please Call for Information

Extreme Service
Please Call for Information

Profile and Dimensions mm



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