

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 18 bar (261 psi)

Maximum Inlet Pressure 12 bar (174 psi)

ATEX Classification Complies with ATEX Directive 94/9/EC

ATEX Certificate SIRA 00ATEX1156 and SIRA 05 ATEX 5284

Certification



II 2GD

Ex d IIC T6 (T_a = -60°C to + 50°C) or

Ex d IIC T4 (Max Ambient = + 90°C)

Ex mbe IIC T4 (T_a = -60°C to + 80°C)

IECEX Certificate

IECEX SIR 05.0029 and IECEX SIR 05.0056

IECEX

Ex d IIC T6 (T_a = -60°C to + 50°C) or

Ex d IIC T4 (Max Ambient = + 90°C)

GOST 'K'

Ex d IIC T6 (T_a = -60°C to + 50°C)

GOST 'R'

Ex d IIC T6 (T_a = -60°C to + 50°C)

Safety Integrity Level

SIL 3 or SIL 4 (SIL 4 in redundant configuration only)

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 87.5% of Nominal

Response Times

Pull-In <80 ms

Drop-Out <60 ms

Electromagnetic Compatibility (EMC)

EN50081-1 EN50082-1 EN61000-4 parts 2,4,5

Valve Symbol



