# Maxseal Solenoid Operated Valves





ICO4S 1/4" 3/2 A-L-L

# Thompson Valves Ltd

Typical Applications

1/4" 3/2 AUTO LATCHING LEVER

Actuator Control

Direct Acting Shut Off Valve

Oil & Gas Applications

Turbine Fuel Control

Description

Model: ICO4S 1/4" 3/2 Uni Direct Acting Solenoid Valve

Low Pressure, High Flow

Max Inlet Pressure 20 bar (290 psi)

Reliable and long life, ideal for a one time installation

Control of pneumatic or hydraulic operated equipment

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ICO4S 1/4" 3/2 A-L-L

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Standard Features	ICO4S 1/4" 3/2 A-L-L		
Solenoid Materials of Construction	Solenoid Pot - Stainless Steel - BFC 3	316	
	Top Cover - Stainless Steel- BFC 316		
	Valve Body & Trim Materials - 316 Sta	ainless Steel	
	O-Rings Seats & Seals - High Nitrile (N	NBR)	
	Coil Insulation - Class H		
Maximum Inlet Pressure	20 Bar (290 PSI)		
Flow Rates	$C_V = 0.8$ USgpm for 1 psi $\Delta p$		
	$K_V = 11.5$ l/min for 1 bar $\Delta p$		
Temperature Ratings	Media (Min/Max -20°C/90°C) - Ambie	nt (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		
Media	Liquid & Gases		
Weight	5.5 Kg		
Recommended Spares Kits			
Soft Spares (O-rings, Springs etc)	Standard & Extreme Service	Y123A010000-SS	
	Low Temperature valves	See Valve Data Sheet	
Spare Coil Assembly	Standard 24V DC (4.5 Watts)	Y123A0101B0	
	Other Variations	See Valve Data Sheet	
Options			
Valve Body & Trim Materials	Aluminium Bronze - Sea Water Applica	ations	
	Titanium - Extreme Service Application	ns	
Low Temperature Options	O-Rings - Low Nitrile / Fluorosilicone (	Min Med/Amb -40°C/-40°C)	
High Temperature Options	High Temperature Spacer (Max Med/A	Amb 120°C/60°C)	
	Please Call for Dimensions		
Process Connections	Thread - 1/4" BSPP		
Conduit Connection	1/2" NPT		
Extreme Service	Increased Power Consumption		
Product lead time	Y123BA1H1BS - 1 WEEK (SUBJECT TO QUANTITIES)		
	Other Variations - Please call for possi	ible delivery dates	

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	Technical Specification		
	Pressures		
	Test (Proof) Pressure		30 bar (435 PSI)
	Maximum Inlet Pressure		20 Bar (290 PSI)
	Maximum inlet pressure when		15 bar (218 PSI)
	used in 'Universal Operation'		
	ATEX Clasification		Complies with ATEX Directive 94/9/EC
	ATEX Certificate		SIRA 00ATEX1147
	Certification		II 2G
	(C.)		EExd IIC T6 ( $T_a$ = -60°C to + 48°C) or
	CX/		EExd IIC T4 (T <sub>a</sub> = -60°C to + 90°C)
	IECEx		IECEx BAS 04.0019
			EExd IIC T6 ( $T_a = -40$ °C to + 60°C) or
			EExd IIC T4 ( $T_a = -40$ °C to + 90°C)
	GOST 'K'		EExd IIC T6 ( $T_a = -40$ °C to + 60°C)
	GOST 'R'		EExd IIC T6 ( $T_a = -40^{\circ}$ C to + 60°C)
	Safety Integrity Level		Suitable for SIL 3 Application in Simplex Mode
			Suitable for SIL 4 Application in Duplex Mode
	Ingress Protection		IP66/X8, NEMA 4X
	Voltage Surge Protection		Surge Suppression Diodes
	Coil Insulation		Class H
	Performance		
	Pull-in Voltage		87.5% of Nominal
	Response Times		Pull-In <150ms
			Drop-Out <80ms
	Electromagnetic Compability (EMC)		EN50081-2/82-1
	Valve Symbol		
F	ENERGISED		ENERGISED
	INLET - 'A		EXHAUST - 'A'
	EXHAUST - 'C'H		INLET - 'C'H 'B' - OUTLET
	INLET - 'A'H EXHAUST - 'C'		EXHAUST - 'A'H INLET - 'C' 'B' - OUTLET
	*		*
	DE-ENERGISED		DE-ENERGISED
	VALVE SYMBOL FOR		VALVE SYMBOL FOR
	ENERGISE TO OPEN (DE-ENERGISED TO CLOSE)		ENERGISE TO CLOSE (DE-ENERGISED TO OPEN)
	(NORMALLY CLOSED)	1 🗆	(NORMALLY OPEN)
	20 BAR MAX WORKING PRESSURE STANDARD OPERATION	15	5 BAR MAX WORKING PRESSURE UNIVERSAL OPERATION

Extreme Service valves can be offered with 20 Bar (290 psi) for use in the Universal Operation

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## Ordering Information

Model	Operating Pressure	Port Config.	Operation	Process Connection	Seat/Seal Materials	Conduit Connection	Voltage	Body/Trim Materials
Y1	2	3	В	A1	Н	1	В	S
			Œ				A 18/33V DC	S 316 SS /
	D _	7	C S S C	A1	Н	1	B 24V DC	316 SS
\$	Barg psi)	38/	AUTOMATIC TCHING LEVER	1/4" NPT	High Nitrile	M20x1.5	C 50V DC	M Alu Brnz /
ICO4S	0 E	3/2 ÆR	$\sum_{i=1}^{N} \mathcal{O}_{N}^{i}$				G 25V AC	Alu Brnz
$\circ$	)-20 (290	3/2 UNIVER	55	E1	V	2	J 110V AC	3
	5	A D	1/4" BSPP	Viton®	1/2" NPT	M 240V AC	Titanium /	
			〕				R 115V DC	Titanium

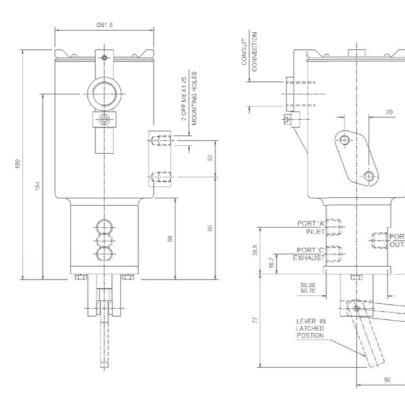
### Ordering Example

Y1	2	3	В	A1	V	1	J	3
ICO4S	0-20 Barg (290 psi)	3/2 UNI	A-L-L	1/4" NPT	VITON®	M20 x 1.5	110V AC	Titanium / Titanium

#### Power Consumption (At Nominal)

DC Standard	t	AC Sta	andard	Extreme Service		
18 / 33V DC (24V DC)	7.7 W	25V AC	6.5 W	24V DC	9.6 W	
24V DC	4.5 W	110V AC	6.5 W	Others A	vailable	
50V DC	5.5 W	240V AC	6.2 W			
115V DC (110V DC)	8.0 W					
115V DC (125V DC)	10.4 W					

### Profile and Dimensions mm



 Valve is energised Valve 'changes over'

Flow occurs between ports 'A' & 'B'

Lever moves to 'latched' position

 Valve is de-energised Valve stays in position as lever prevents valve from 'changing over'

Flow occurs between ports 'A' & 'B'

Lever is moved to normal' position Valve 'changes over'

Flow occurs between ports 'B' & 'C'

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