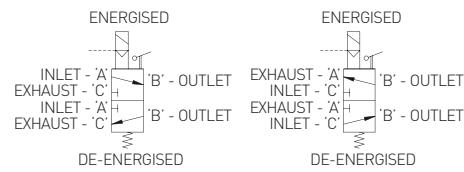


Norgren Maxseal		Function	Manual Override	Specification																						
		3/2, 5/2 WAY IN LINE	3/2, 5/2 WAY NAMUR OPTION	5 /2 WAY DOUBLE SOLENOID OPTION	MANUAL OVERRIDE OPTIONAL	MANUAL RESET OPTIONAL	TAMPER PROOF MANUAL RESET	STAINLESS STEEL 316	MAXIMUM INLET PRESSURE	ALTERNATIVE PRESSURE OPTIONS	MECHANICAL SPRING RETURN	NPT OPTION	1/2" OPTION	MEDIA TEMPERATURE RANGE	AMBIENT TEMPERATURE RANGE	M20 X 1.5 CONDUIT THREAD ENTRY STANDARD	1/2" NPT CONDUIT ENTRY OPTION	MEDIA: LIQUID AND GASES	NITRILE (NBR) SEAT AND SEAL STANDARD	ALTERNATIVE SEAT AND SEAL OPTIONS	INGRESS PROTECTION (IP RATING)	COIL INSULATION CLASS H	SIL APPROVED	APPROVALS	APPROVALS LIST	
	IC03	✓	✓	✓	✓	✓	✓	12 Bar	10 Bar	✓	✓	✓	-55 to +90 °C	✓	✓	✓	✓	✓	Viton and Fluorosilicone	IP66/X8	✓	✓	✓		ATEX, GOST K & R, IECEx, CSA	
		IC04	✓	✓	✓	✓	✓	✓	4/14 Bar	✓	✓	✓	✓	-60 to +90 °C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	ATEX, GOST K & R, IECEx, CSA	
			APV	✓	✓	✓	✓	✓	✓	3 to 12 bar	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	ATEX & GOST-R
				QEV	✓					✓	0.5 to 12 bar		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓

IC02S 1/4" 3/2 A.L.L



Maximum inlet pressure:

20 bar (290 psi)

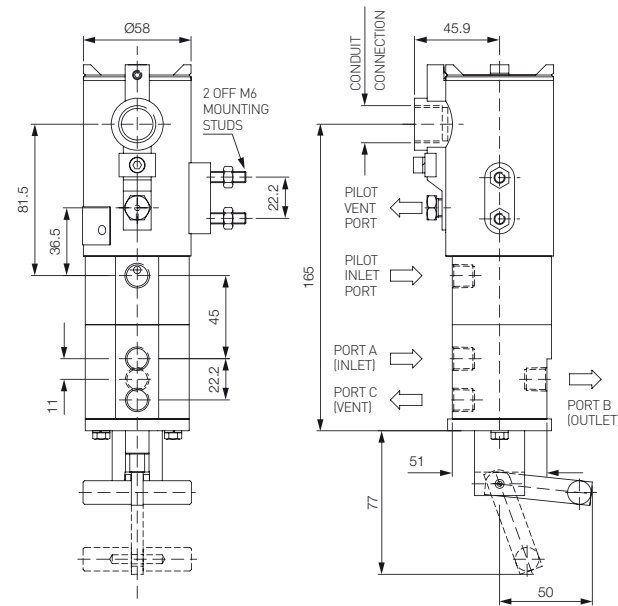
Flow rates:

$C_v = 0.8$ USgpm for 1 psi Δp

$K_v = 11.52$ l/min for 1 bar (15 psi) Δp

Weight:

4 kg

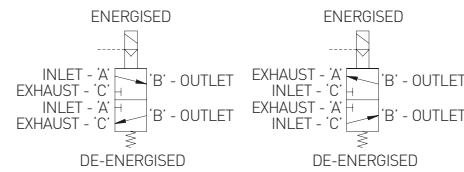


1. Valve is energised & pilot pressure applied
Valve 'changes over'
flow occurs between ports 'A' & 'B'
Lever moves to 'latched' position.

2. Valve is de-energised
Valve stays in position as lever prevents valve from 'changing over'
Flow occurs between ports 'A' & 'B'

3. Lever is moved to 'normal' position
Valve 'changes over'
Flow occurs between ports 'B' & 'C'

IC02S 1/4" 3/2 AUTO



Maximum inlet pressure:

20 bar (290 psi)

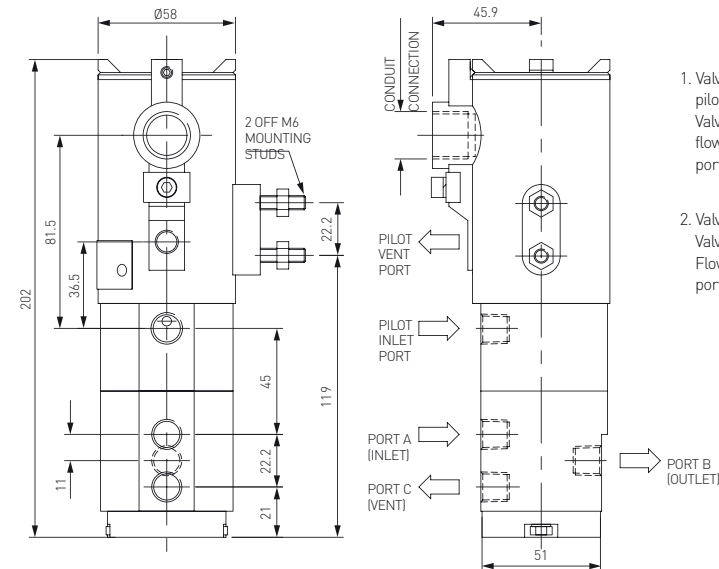
Flow rates:

$C_v = 0.8$ USgpm for 1 psi Δp

$K_v = 11.52$ l/min for 1 bar (15 psi) Δp

Weight:

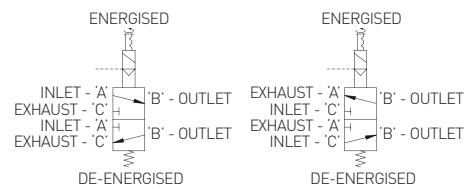
3 kg



1. Valve is energised & pilot pressure applied
Valve 'changes over'
flow occurs between ports 'A' & 'B'

2. Valve is de-energised
Valve 'resets'
Flow occurs between ports 'C' & 'B'

IC02S 1/4" 3/2 JSM0



Maximum inlet pressure:

20 bar (290 psi)

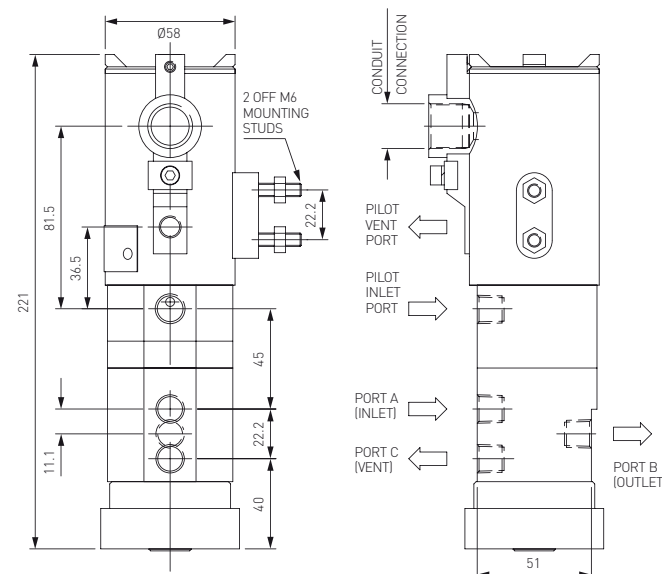
Flow rates:

$C_v = 0.8$ USgpm for 1 psi Δp

$K_v = 11.52$ l/min for 1 bar (15 psi) Δp

Weight:

4.5 kg



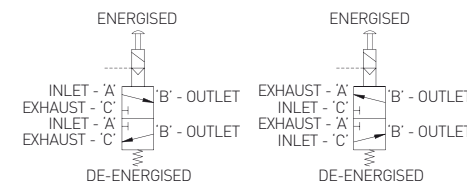
1. Jack screw in fully out (down) position
Valve operates as an automatic
Valve is energised & pilot pressure applied
Flow occurs between ports 'A' & 'B'
Valve is De-Energised
flow occurs between ports 'B' & 'C'

2. Jack screw in fully in (up) position
Flow occurs between ports 'A' & 'B'

When the valve is energised or de-energised, it will 'change over' until the jack-screw is returned to the 'fully out' position

Profile and dimensions mm

IC02S 1/4" 3/2 PBMR



Maximum inlet pressure:

20 bar (290 psi)

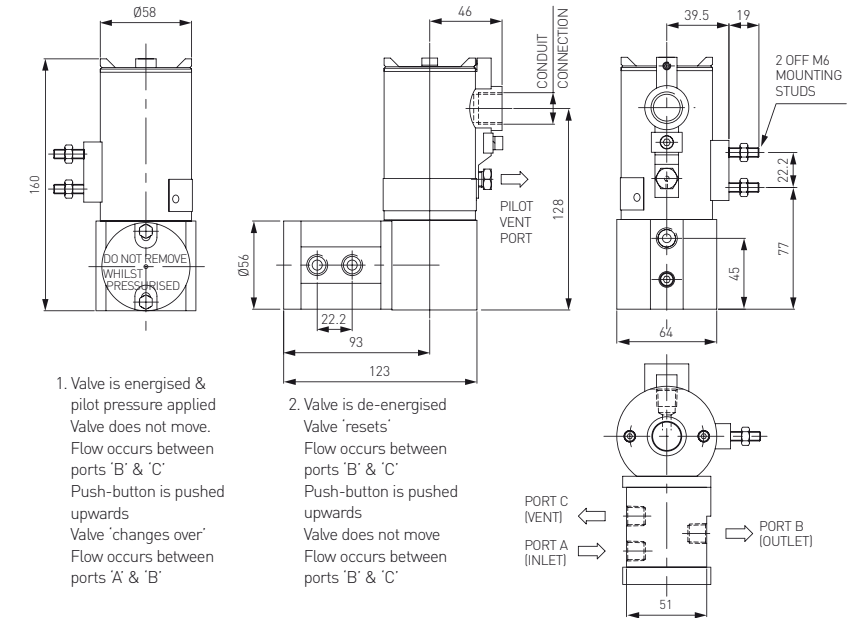
Flow rates:

$C_v = 0.8$ USgpm for 1 psi Δp

$K_v = 11.52$ l/min for 1 bar (15 psi) Δp

Weight:

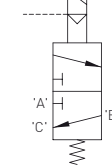
4.5 kg



1. Valve is energised & pilot pressure applied
Valve does not move.
Flow occurs between ports 'B' & 'C'
Push-button is pushed upwards
Valve 'changes over'
Flow occurs between ports 'A' & 'B'

2. Valve is de-energised
Valve 'resets'
Flow occurs between ports 'B' & 'C'
Push-button is pushed upwards
Valve does not move
Flow occurs between ports 'B' & 'C'

IC02S 1/4" 3/2 20 BAR (290 PSI) AUTO LATCHING LEVER



Max. inlet pressure:

0-20 bar (0-290 psi)

Flow rates:

$C_v = 0.8$ USgpm for 1 psi Δp

$K_v = 11.5$ l/min for 1 bar (15 psi) Δp

Weight:

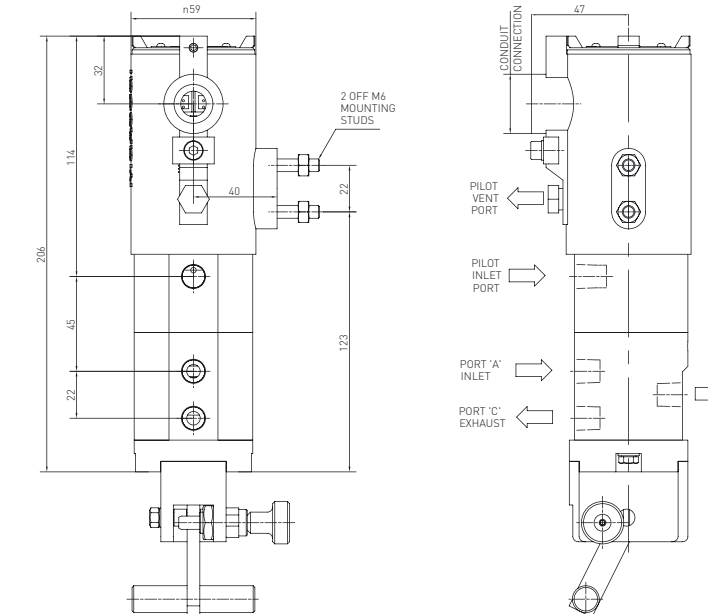
TBA Kg

IMPORTANT for media:

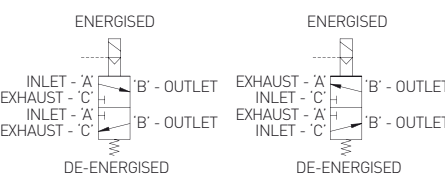
Customer to specify and confirm compatibility

Only available part number:

Y2H23BA1SA10300



IC02S 1/4" 3/2 50 BAR (725 PSI) AUTO



Maximum inlet pressure:

50 bar (725 psi)

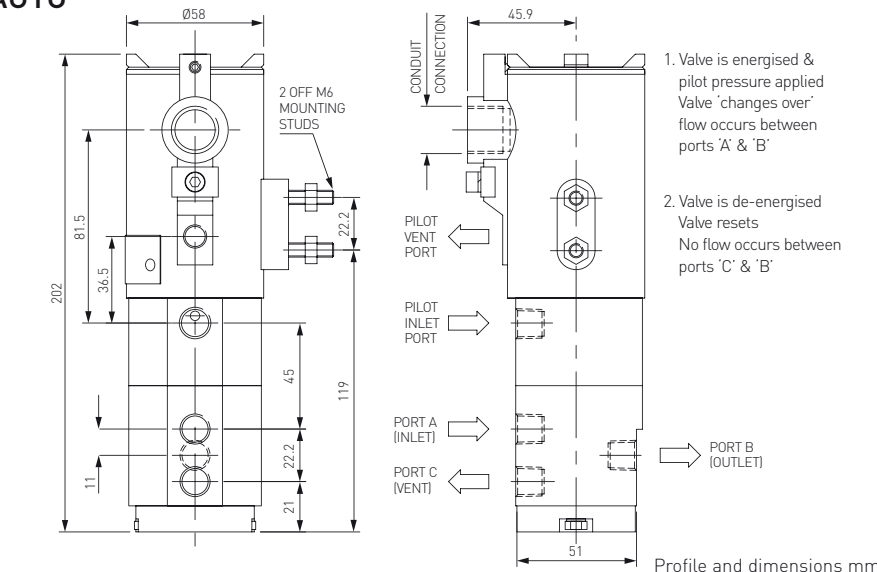
Flow rates:

$C_v = 0.6$ USgpm for 1 psi Δp

$K_v = 8.64$ l/min for 1 bar (15 psi) Δp

Weight:

3 kg

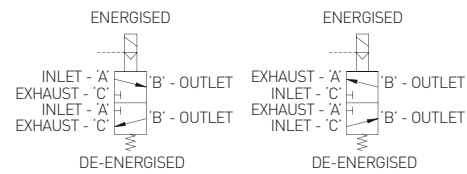


1. Valve is energised & pilot pressure applied
Valve 'changes over'
flow occurs between ports 'A' & 'B'

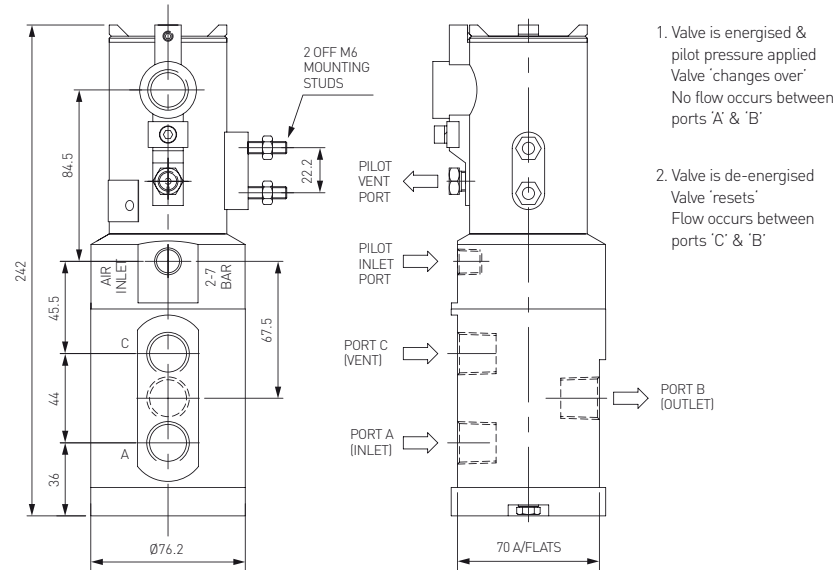
2. Valve is de-energised
Valve resets
No flow occurs between ports 'C' & 'B'

Profile and dimensions mm

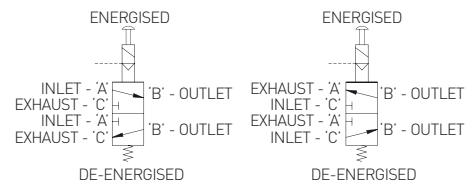
IC02S 1/2" 3/2 AUTO



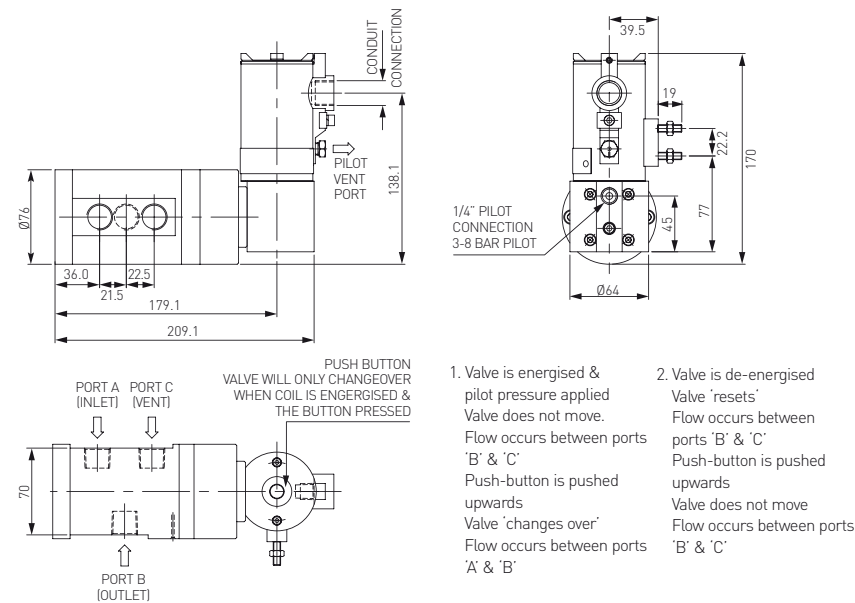
Weight:
7 kg



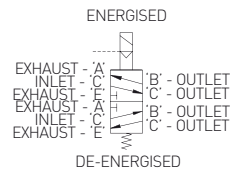
IC02S 1/2" 3/2 PBMR



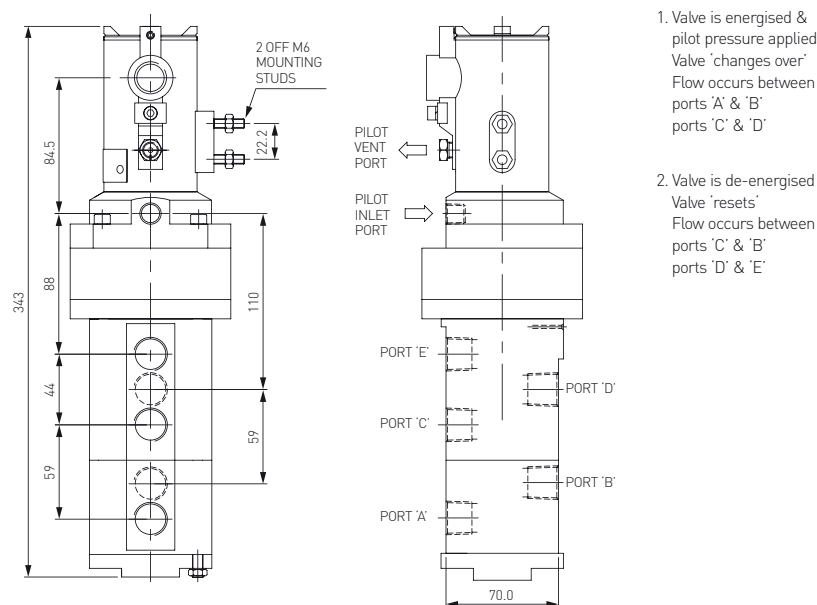
Weight:
8.5 kg



IC02S 1/2" 5/2 AUTO



Weight:
11.5 kg



Profile and dimensions mm

IC02S 1" 20 BAR (290 PSI) AUTO

Certification EEx ia IIC T6 (Ta = -40°C to +64°C [-40°F to +147°F]). **Complies with EN 50014:1997 (amendments 1 & 2), EN 50020:1994 & EN 50284:1999**

Atex certification SIRA 00ATEX2113, **complies with ATEX directive 94/9/EC**

Protection IP66/X8, **NEMA 4X**

Technical data

Max. inlet pressure:
0-20 bar (0-290 psi)

Pilot pressure:
3-8 bar (44-116 psi)

Flow rates:
C_v = 12.8 USgpm for 1 psi Δp
K_v = 186 l/min for 1 bar (15 psi) Δp

Temperature ratings:
Media (min/max): -20°C/90°C (-4°F/194°F)
Ambient: must be used within 'T' class temperature ranges shown

Port size:
1"

Process connections:
NPT

Signal connection:
1/4" NPT

Media:
Customer to specify and confirm compatibility

Operation:
Automatic

Materials

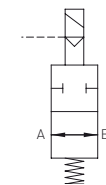
Valve body & trim - 316 stainless steel
O-Rings seats & seals - high nitrile (NBR)
Paint finish - stainless steel coil housing, unpainted



Electrical information

Voltage (nominal)	24V DC	Pull-in Voltage	>= 87.5% of nominal
Response Times (Typ)	Pull-in < 150 MS Drop Out < 80 MS	Drop-Out Voltage	10 - 20% of nominal
Coil Rating	340 ohms	Power Consumption	0.5 watts
Voltage Protection	Surge suppression diodes fitted as STD	Coil Encapsulation	Class H
Leak Performance	Bubble tight	Coil Duty Cycle	100%

IC02S 1" 2/2 20 BAR (290 PSI) AUTO



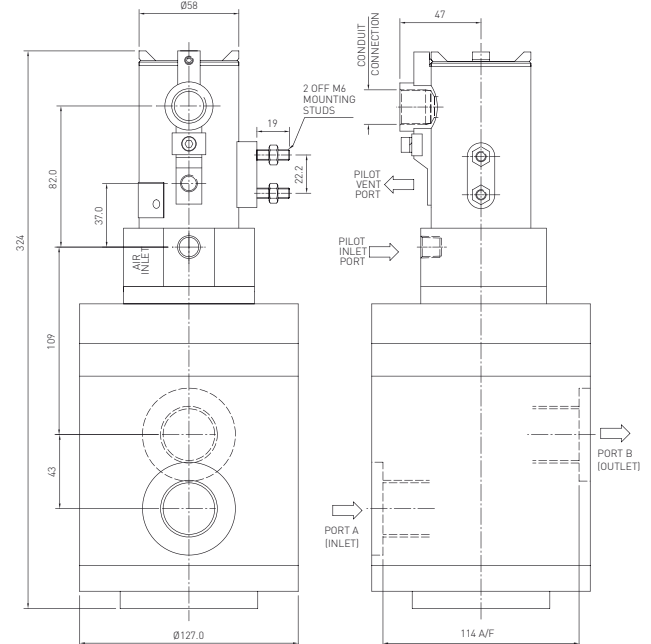
2/2 Energise to open (normally close)

Conduit connection:
1/2" NPT

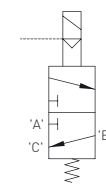
Weight:
6 kg

Ordering information:
Quote: Y2H21AA6SD10300

Options: None



IC02S 1" 3/2 20 BAR (290 PSI) AUTO



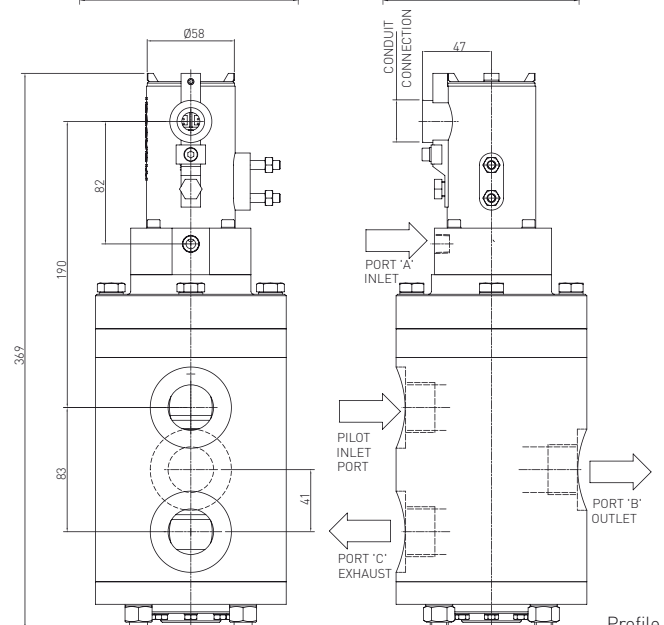
3/2 universal

Conduit connection:
M20 ISO

Weight:
TBA Kg

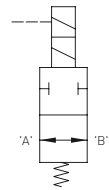
Ordering information:
Quote: Y2H23AA6SA10300

Options: None



Profile and dimensions mm

IC02S 1.5" 2/2 FLANGED 20 BAR (290 PSI) AUTO



2/2 energise to close (normally open)

Certification EEx ia IIC T6 (Ta = -40°C to +64°C [-40°F to +147°F]). Complies with EN 50014:1997 (amendments 1 & 2), EN 50020:1994 & EN 50284:1999

Atex certification SIRA 00ATEX2113, complies with ATEX directive 94/9/EC

Protection IP66/X8, NEMA 4X

Materials

Valve body & trim - 316 stainless steel

O-Rings seats & seals - high nitrile (NBR)

Paint finish - stainless steel coil housing, unpainted

Ordering information

Quote: Y2H22A1YSA10300

Options: None

Technical data

Max. inlet pressure: 0-20 bar (0-290 psi)

Pilot pressure: 3-8 bar (44-116 psi)

Flow rates:

$C_v = 48$ USgpm for 1 psi Δp

$K_v = 691$ l/min for 1 bar (15 psi) Δp

Temperature ratings:

Media (min/max):

-20°C/90°C (-4°F/194°F)

Ambient: must be used within 'T' class temperature ranges shown

Port size: 1.5"

Process connections: Flanged to B16.5

Conduit connection: M20 ISO

Signal connection: 1/4" NPT

Media:

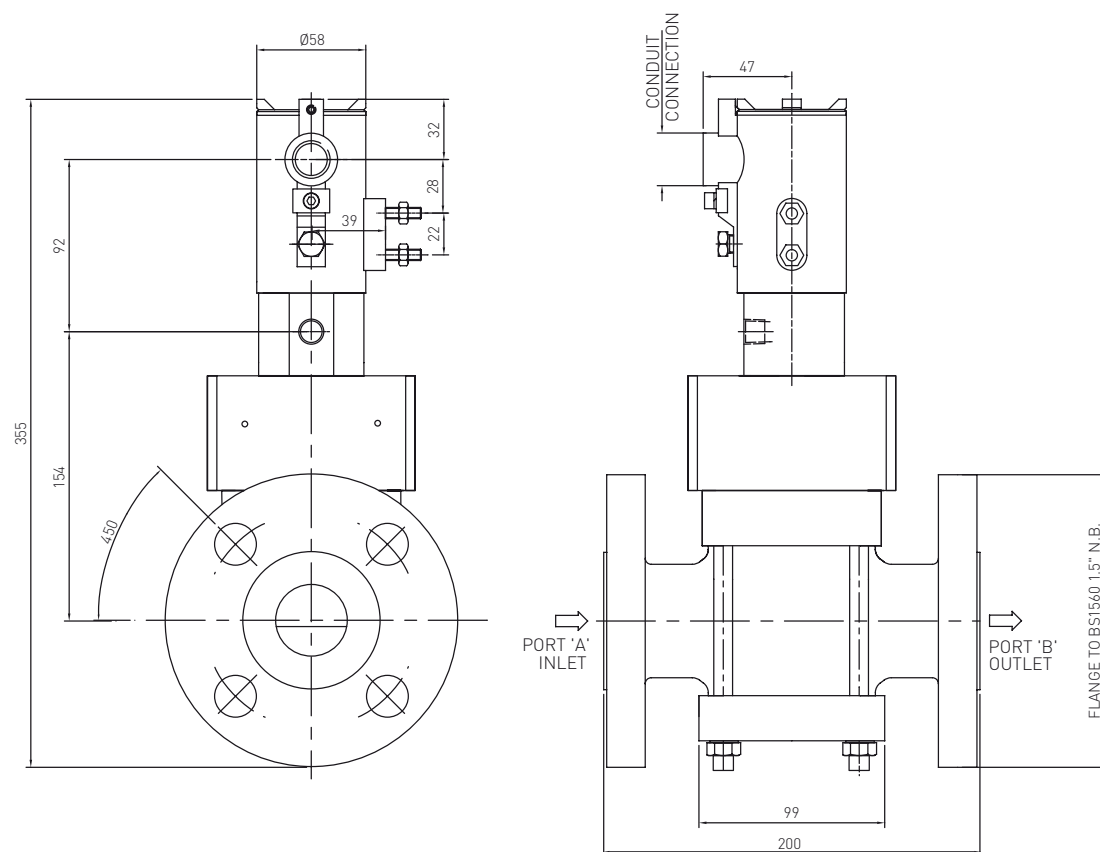
Customer to specify and confirm compatibility

Weight:

6.5 kg

Operation:

Automatic

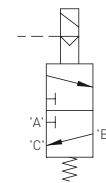


Electrical information

Voltage (nominal)	24V DC				Pull-in Voltage	>= 87.5% of nominal
Response Times (Typ)	Pull-in	< 150 MS	Drop Out	< 80 MS	Drop-Out Voltage	10 - 20% of nominal
Coil Rating	340 ohms				Power Consumption	0.5 watts
Voltage Protection	Surge suppression diodes fitted as STD				Coil Encapsulation	Class H
Leak Performance	Bubble tight				Coil Duty Cycle	100%

Profile and dimensions mm

IC02S 2" 3/2 FLANGED 19 BAR (276 PSI) AUTO



3/2 universal

Certification EEx ia IIC T6 (Ta = -40°C to +64°C [-40°F to +147°F]). Complies with EN 50014:1997 (amendments 1 & 2), EN 50020:1994 & EN 50284:1999

Atex certification SIRA 00ATEX2113, complies with ATEX directive 94/9/EC

Protection IP66/X8, NEMA 4X

Materials

Valve body & trim - 316 stainless steel

O-Rings seats & seals - high nitrile (NBR)

Paint finish - stainless steel coil housing, unpainted

Ordering information

Quote: Y2H23A2ESA10300

Options: None

Technical data

Max. inlet pressure: 0-19 bar (0-276 psi)

Pilot pressure: 3-8 bar (44-116 psi)

Flow rates:

$C_v = 12.8$ USgpm for 1 psi Δp

$K_v = 186$ l/min for 1 bar (15 psi) Δp

Temperature ratings:

Media (min/max):

-20°C/90°C (-4°F/194°F)

Ambient: must be used within 'T' class temperature ranges shown

Port size: 2"

Process connections: NPT

Conduit connection: M20 ISO

Signal connection: 1/4" NPT

Media:

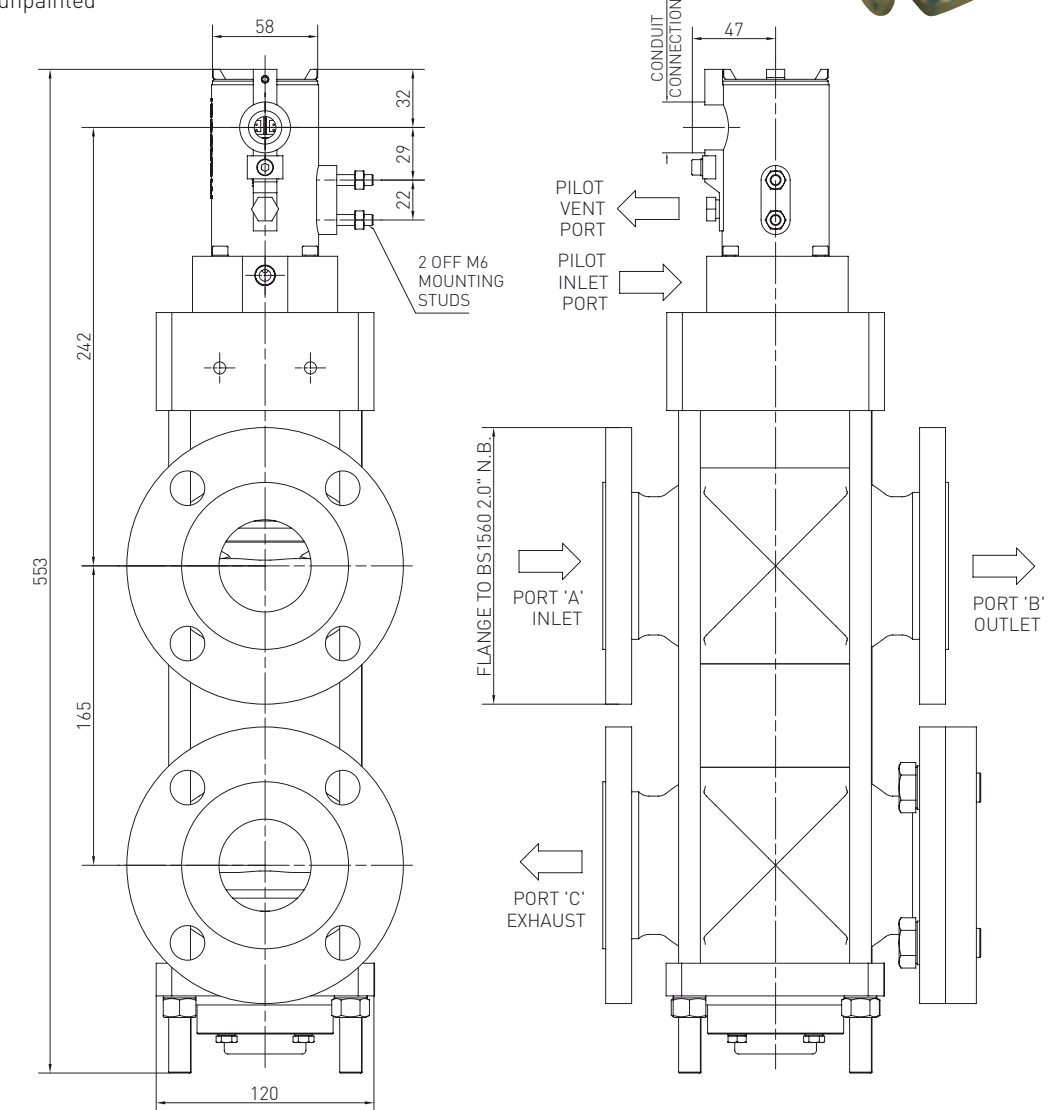
Customer to specify and confirm compatibility

Weight:

TBA kg

Operation:

Automatic



Electrical information

Voltage (nominal)	24V DC				Pull-in Voltage	>= 87.5% of nominal
Response Times (Typ)	Pull-in	< 150 MS	Drop Out	< 80 MS	Drop-Out Voltage	10 - 20% of nominal
Coil Rating	340 ohms				Power Consumption	0.5 watts
Voltage Protection	Surge suppression diodes fitted as STD				Coil Encapsulation	Class H
Leak Performance	Bubble tight				Coil Duty Cycle	100%

Profile and dimensions mm

IC03S 1/4" 2/2 12 BAR (174 PSI)

2/2 energise to open (normally closed)

Certification T6 (Tamb = -55°C to +50°C (-67°F to +122°F)) & T4 (Max ambient +90°C (+194°F)) or equipment must be used within 'T' class temp ranges shown.
EX II 2 GD - gas and dust environments.
Exd protection, gas group IIC.

Atex certification SIRA 05ATEX1156, complies with ATEX directive 94/9/EC

IECEX certification IECEX SIR 05.0029

Safety integrity level SIL 3 or SIL 4 (SIL 4 in a redundant configuration only)

Protection IP66/X8, NEMA 4X

Technical data

Max. inlet pressure: 0-12 bar (0-174 psi)

Flow rates:

$C_v = 0.6$ USgpm for 1 psi Δp

$K_v = 8.7$ l/min for 1 bar (15 psi) Δp

Port size: 1/4"

Process connections: NPT

Conduit / Signal Conns: M20 x 1.5mm ISO (F)

Media:

Customer to specify and confirm compatibility

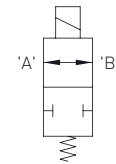
Weight: 2 kg

Electrical information

Voltage (nominal)	24V DC	Pull-in Voltage	$\geq 87.5\%$ of nominal
Response Times (Typ)	Pull-in < 80 MS	Drop Out < 60 MS	Drop-Out Voltage 10 - 20% of nominal
Voltage Protection	Surge suppression diodes fitted as STD	Coil Encapsulation	Class H
Leak Performance	Bubble tight at -50 °C. <30cc/m at -55 °C.	Coil Duty Cycle	100%



IC03S 1/4" 2/2 12 BAR (174 PSI) AUTO



Temperature ratings:

Media (min/max): -55°C/90°C (-67°F/194°F)

Ambient: must be used within 'T' class temperature ranges shown

Coil Rating:

190 ohms

Power Consumption: 3 watts

Operation:

Automatic

Materials:

Valve body & trim - 316L stainless steel

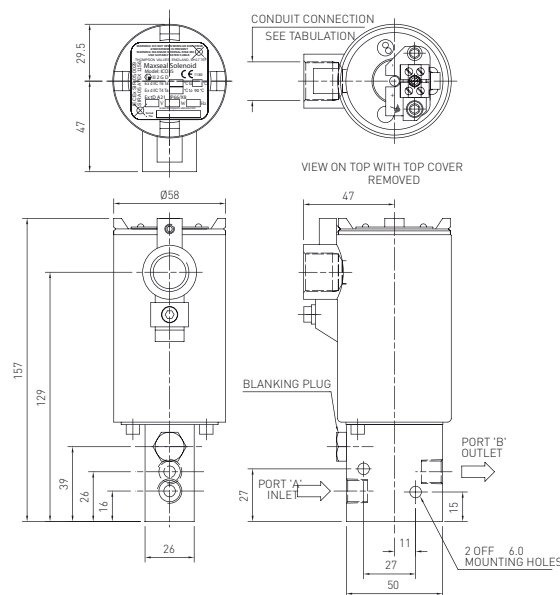
O-Rings seats & seals - nitrile

Paint finish - 316LSS coil housing - unpainted

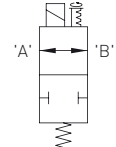
Ordering information:

Quote: Y011AA1H1BS

Options: None



IC03S 1/4" 2/2 12 BAR (174 PSI) JSMO



Temperature ratings:

Media (min/max): -10°C/90°C (+14°F/194°F)

Ambient: must be used within 'T' class temperature ranges shown

Coil Rating:

190 ohms

Power Consumption: 3 watts

Operation:

JackscREW manual override

Materials:

Valve body & trim - 316L stainless steel

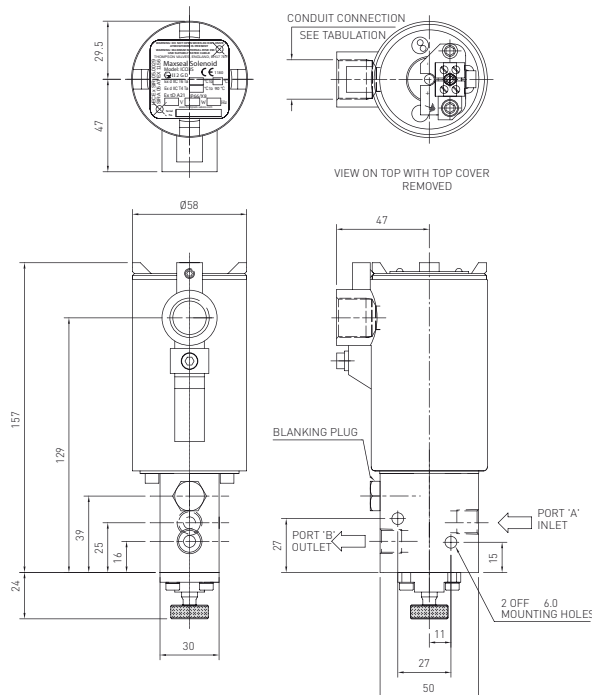
O-Rings seats & seals - FKM

Paint finish - 316LSS coil housing - unpainted

Ordering information:

Quote: Y011SA1V1BS

Options: None



Profile and dimensions mm

IC03S 1/4" 3/2

Model IC03S 1/4" 3/2 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, IECEX and NEMA 4X



Materials

Solenoid pot - stainless steel - BFC 316

Top cover - stainless steel - BFC 316

Valve body & trim materials - 316 stainless steel - 316L stainless steel

O-rings & seals - nitrile (NBR)

Coil insulation - class H

Option selector

Model	Substitute	★★/1/3/★/★★/★/★/★/★/	Body / trim materials	Substitute
IC03S Ex d	Y0		316 SS / 316 SS	S
IC03S Ex mbe	YZ		316L SS / 316L SS	T
IC03S Ex ia	YX			
Operating pressure	Substitute		Voltage	Substitute
0-12 bar	1		24V DC	B
			50V DC	C
			110V DC	D
Port config.	Substitute		125V DC	E
3/2 UNIVERSAL	3		220 / 240V DC	F
			24V AC	G
Operation	Substitute		110V AC	J
Automatic	A		220 / 240V AC	M
PBMO	C		120V AC	T
PBMR	P			
Process conn.	Substitute		Conduit connection	Substitute
1/4" NPT	A1		M20 x 1.5	1
1/4" BSPP	E1		1/2" NPT	2
			Seat / seal materials	Substitute
			Nitrile	H
			FKM	V

Technical data

Maximum inlet pressure: 12 bar (174 psi)

Flow rates:

$C_v = 0.6$ USgpm for 1 psi Δp

$K_v = 8.64$ l/min for 1 bar (15 psi) Δp

Temperature ratings:

Media (min/max -50°C/90°C [-58°F/194°F]) Ambient (min/max -50°C/60°C [-58°F/140°F])

Valve size:

1/4" poppet valve

Process connections:

1/4" NPT, 1/4" BSP

Conduit connection:

M20 x 1.5 conduit thread, 1/2" NPT

Signal connection:

1/4" NPT

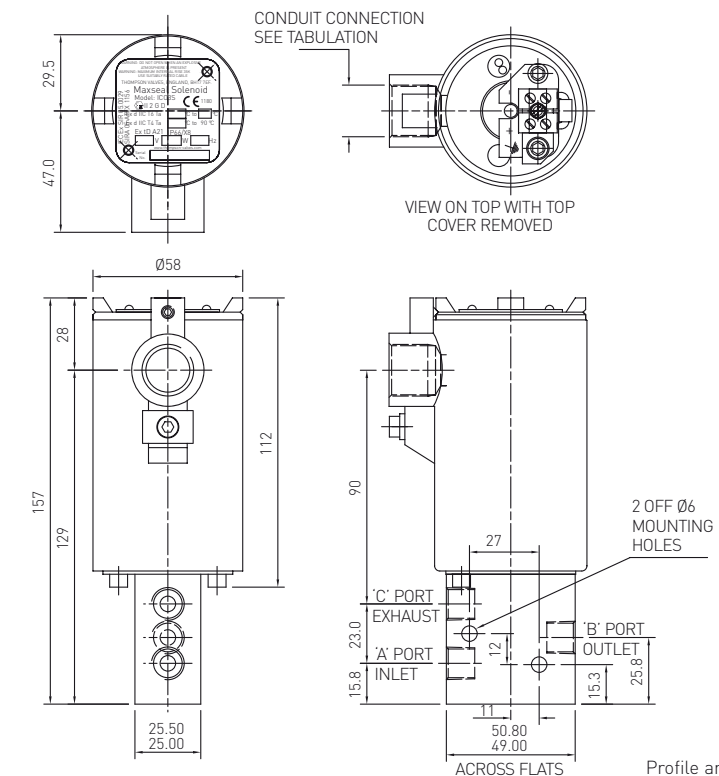
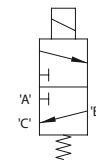
Media:

Liquid & gases

Weight:

2.5 kg

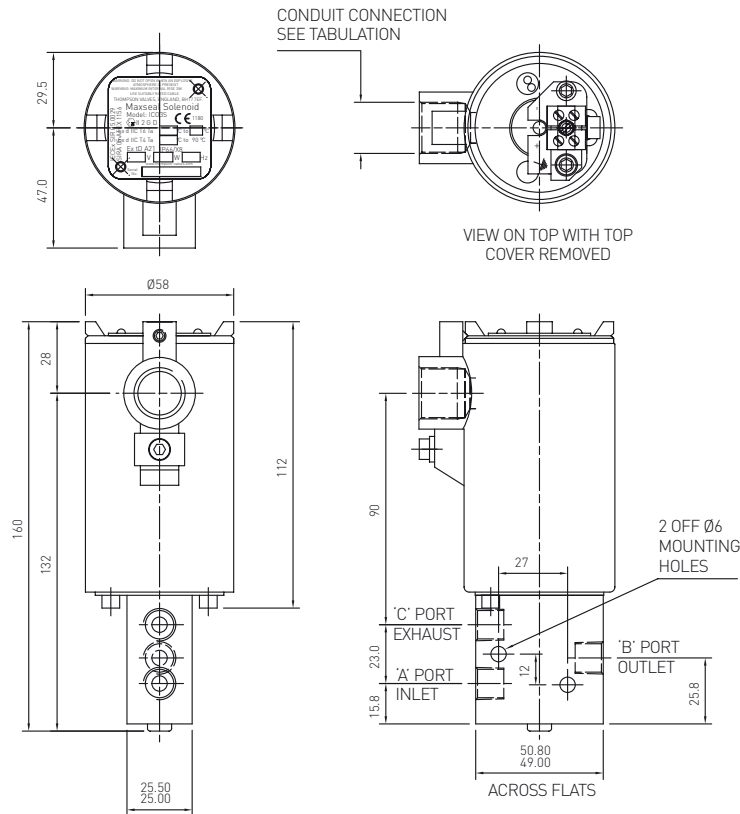
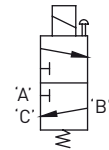
IC03S 1/4" 3/2 AUTO



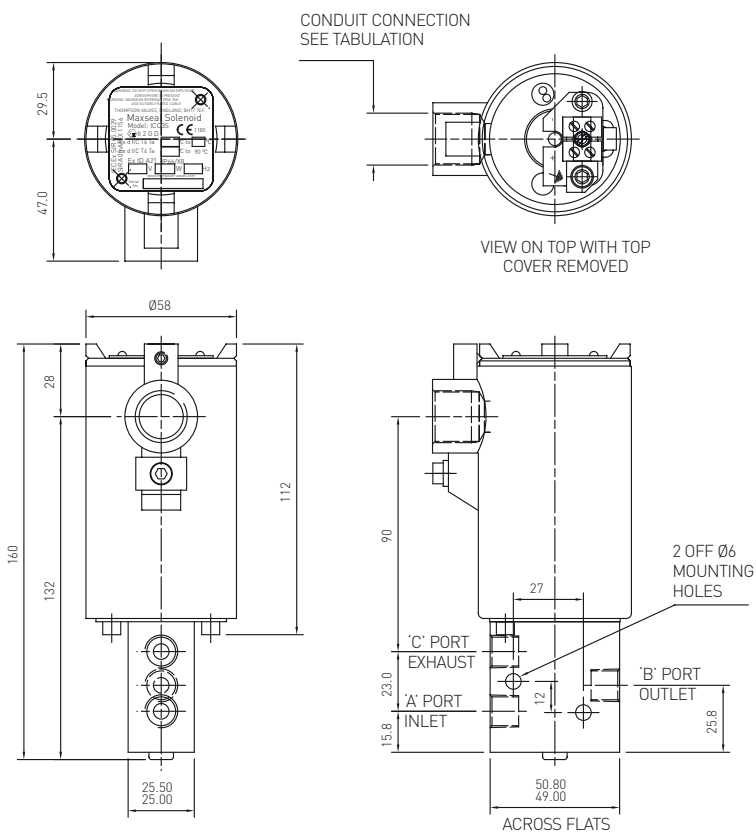
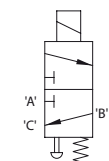
ACROSS FLATS

Profile and dimensions mm

IC03S 1/4" 3/2 PBM0



IC03S 1/4" 3/2 PBMR



Profile and dimensions mm

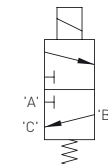
IC03S 1/4" 3/2 12 BAR (174 PSI)

Certification T6 (Tamb = -55°C to +50°C [-67°F to +122°F]) & T4 (Max ambient +90°C [+194°F]) or equipment must be used within 'T' class temp ranges shown.
EX II 2 GD - gas and dust environments.
Exd IIX - Exd protection, gas group IIC.
Atex certification SIRA 05ATEX1156, complies with ATEX directive 94/9/EC
IECEX certification IECEX SIR 05.0029

Safety integrity level SIL 3 or SIL 4 (SIL 4 in a redundant configuration only)

Protection IP66/X8, NEMA 4X

IC03S 1/4" 3/2 12 BAR (174 PSI) AUTO - 90



3/2 universal

Process connections: NPT

Operation: Automatic

Response Times (Typ):
 Pull-in: < 80 MS
 Drop Out: < 60 MS

Drop-Out Voltage: 10 - 20% of nominal

Technical data
Max. inlet pressure: 0-12 bar (0-174 psi)

Flow rates:
 $C_v = 0.6$ USgpm for 1 psi Δp
 $K_v = 8.7$ l/min for 1 bar (15 psi) Δp

Temperature ratings:
 Media (min/max): -55°C/90°C [-67°F/194°F]
 Ambient: must be used within 'T' class temperature ranges shown

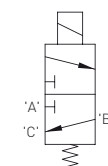
Port size: 1/4"

Coil Rating: 190 ohms

Power Consumption: 3 watts

Ordering information:
 Quote: Y013AA1H1BS-90
 Options: Body rotated through 90° of normal position

IC03S 1/4" 3/2 12 BAR (174 PSI) AUTO - 180



3/2 universal

Process connections: NPT

Operation: Automatic

Response Times (Typ):
 Pull-in: < 80 MS
 Drop Out: < 60 MS

Drop-Out Voltage: 10 - 20% of nominal

Coil Rating: 190 ohms

Power Consumption: 3 watts

Ordering information:
 Quote: Y013AA1H1BS-180
 Options: Body rotated through 180deg (outlet under conduit)

Conduit / Signal Conns: M20 x 1.5mm ISO (F)

Media: Customer to specify and confirm compatibility

Weight: 2 kg

Materials

Valve body & trim - 316L stainless steel

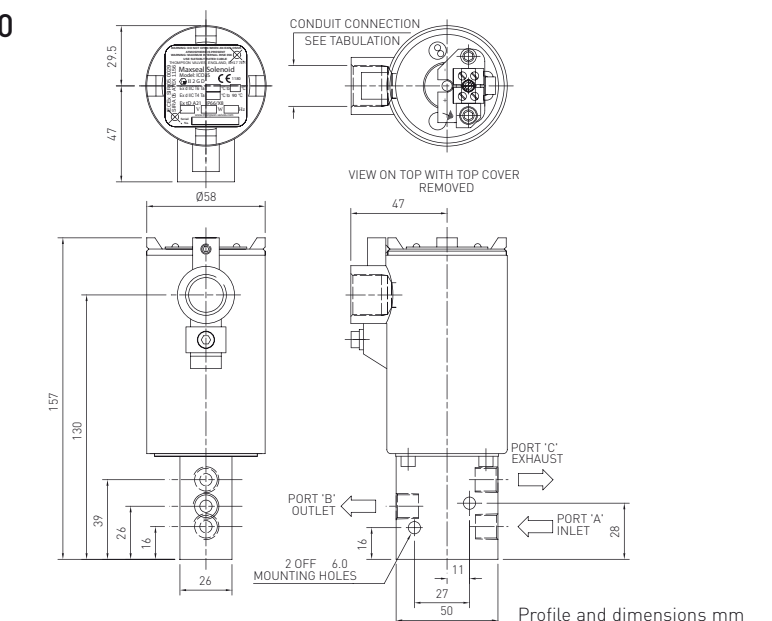
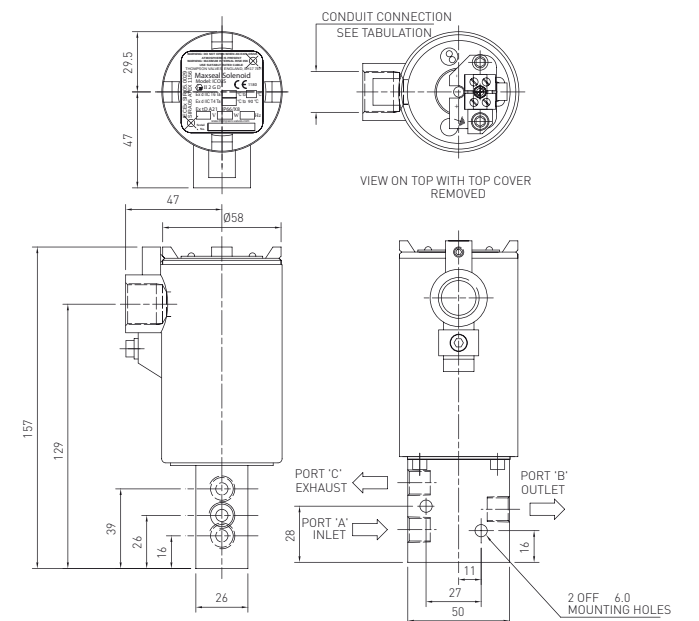
O-Rings seats & seals - nitrile

Paint finish - 316LSS coil housing - unpainted



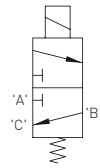
Electrical information

Voltage (nominal)	24V DC	Pull-in Voltage	>= 87.5% of nominal
Voltage Protection	Surge suppression diodes fitted as STD	Coil Encapsulation	Class H
Leak Performance	Bubble tight at -50 °C. <30cc/m at -55 °C.	Coil Duty Cycle	100%



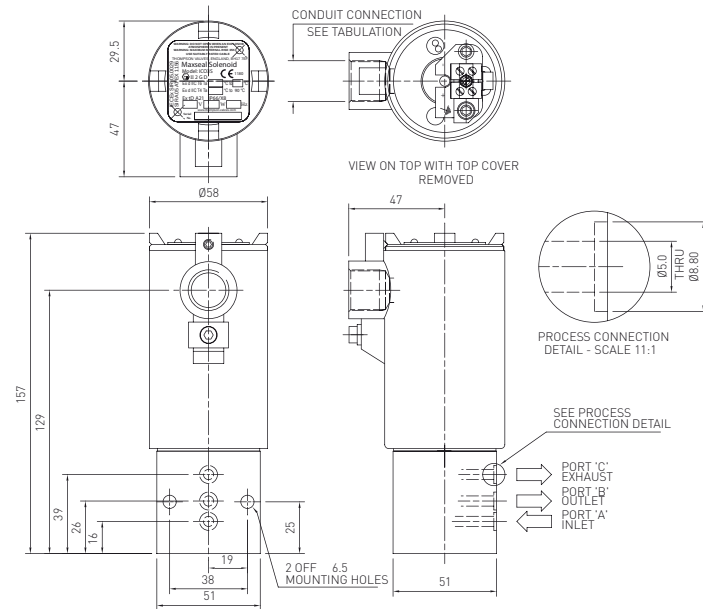
Profile and dimensions mm

IC03S 1/4" 3/2 MANIFOLD MOUNT 12 BAR (174 PSI) AUTO

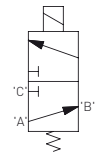


3/2 universal
Process connections:
 5mm drilled ports-flg MTD
Operation:
 Automatic
Response Times (Typ):
 Pull-in: < 80 MS
 Drop Out: < 60 MS
Drop-Out Voltage:
 10 - 20% of nominal

Coil Rating:
 190 ohms
Power Consumption:
 3 watts
Ordering information:
 Quote: Y013AKFH1BS
 Options: Manifold mount

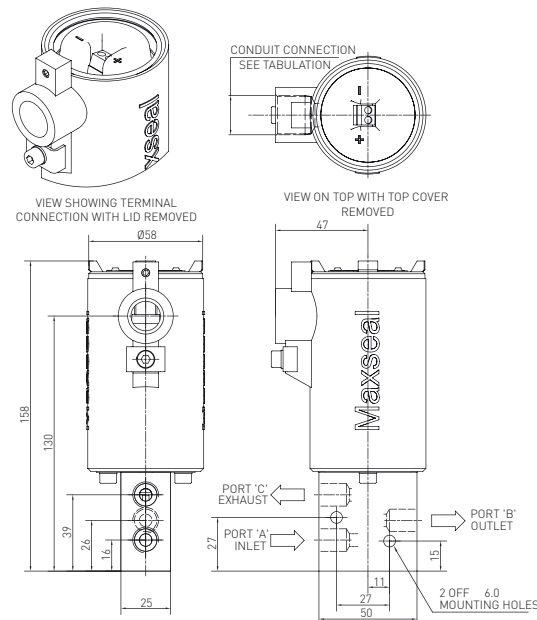


IC03S 1/4" 3/2 EX ia 12 BAR (174 PSI) AUTO

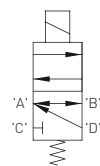


3/2 universal
Process connections:
 NPT
Operation:
 Automatic
Response Times (Typ):
 Pull-in: 3-4 sec
 Drop Out: < 60 MS
Drop-Out Voltage:
 10 - 20% of nominal

Coil Rating:
 293 ohms
Power Consumption:
 0.43 watts
Ordering information:
 Quote: YX13AA1H1BS
 Options: None

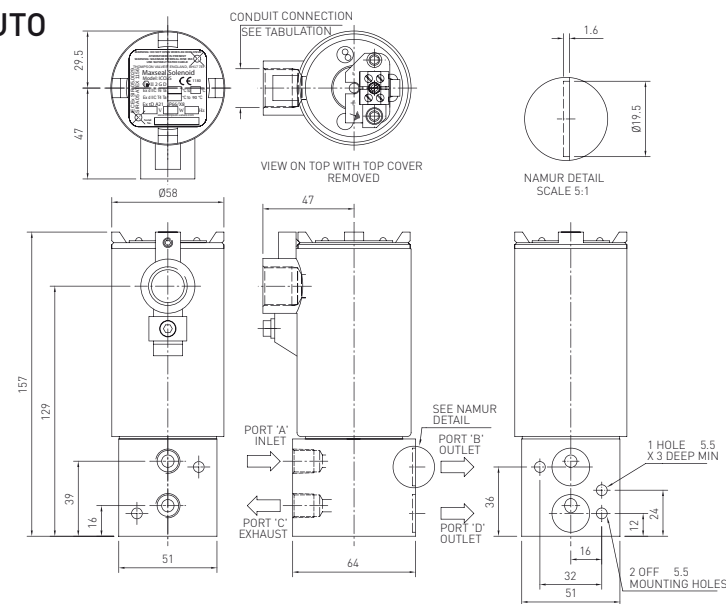


IC03S 1/4" 3/2 NAMUR 12 BAR (174 PSI) AUTO



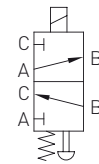
3/2 universal
Process connections:
 Namur mount with 1/4 NPT
Operation:
 Automatic
Response Times (Typ):
 Pull-in: < 80 MS
 Drop Out: < 60 MS
Drop-Out Voltage:
 10 - 20% of nominal

Coil Rating:
 190 ohms
Power Consumption:
 3 watts
Ordering information:
 Quote: Y013ANAH1BS
 Options: Namur mount supplied with A4-70 mounting bolts and O-rings



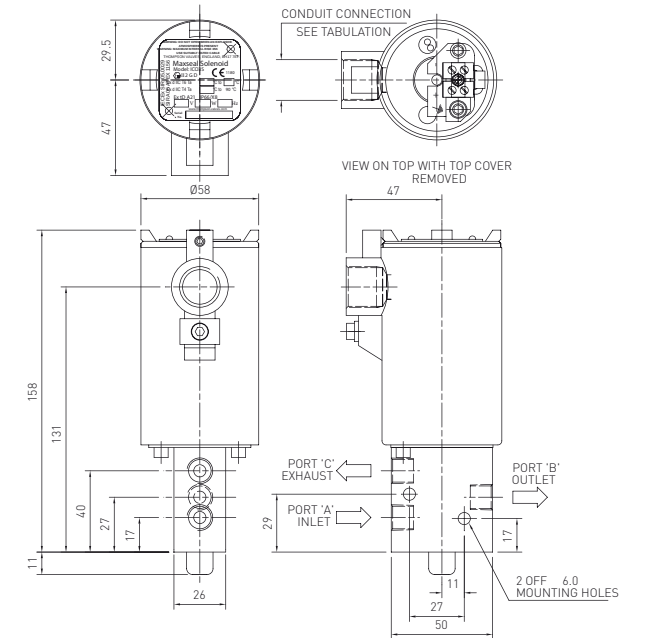
Profile and dimensions mm

IC03S 1/4" 3/2 12 BAR (174 PSI) TPMR

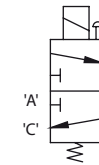


3/2 fixed port configuration
Process connections:
 NPT
Operation:
 Tamperproof manual reset button
Response Times (Typ):
 Pull-in: < 80 MS
 Drop Out: < 60 MS

Drop-Out Voltage:
 10 - 20% of nominal
Coil Rating:
 190 ohms
Power Consumption:
 3 watts
Ordering information:
 Quote: Y013TA1H1BS
 Options: None

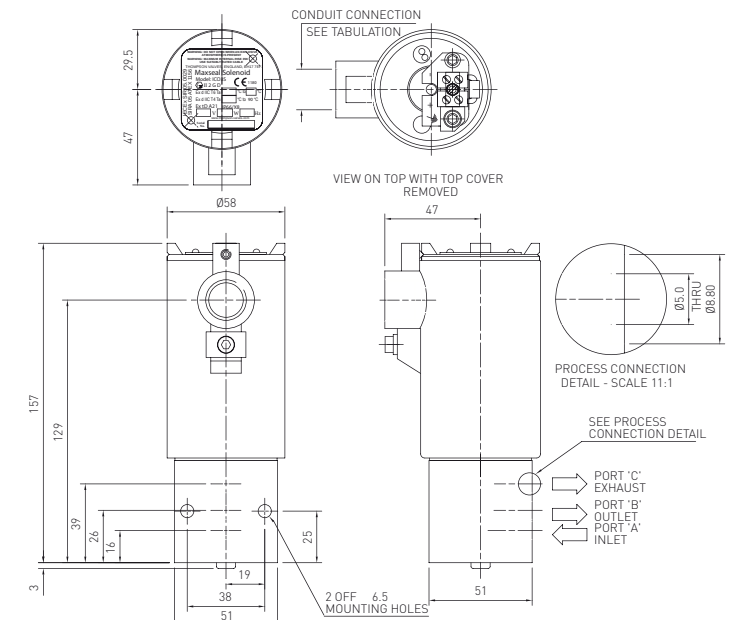


IC03S 1/4" 3/2 MANIFOLD MOUNT 12 BAR (174 PSI) PBM0

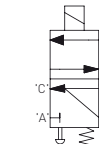


3/2 universal
Process connections:
 5mm drilled ports-flg MTD
Operation:
 Push button manual override
Response Times (Typ):
 Pull-in: < 80 MS
 Drop Out: < 60 MS

Drop-Out Voltage:
 10 - 20% of nominal
Coil Rating:
 190 ohms
Power Consumption:
 3 watts
Ordering information:
 Quote: Y013CKFH1BS
 Options: Manifold mount

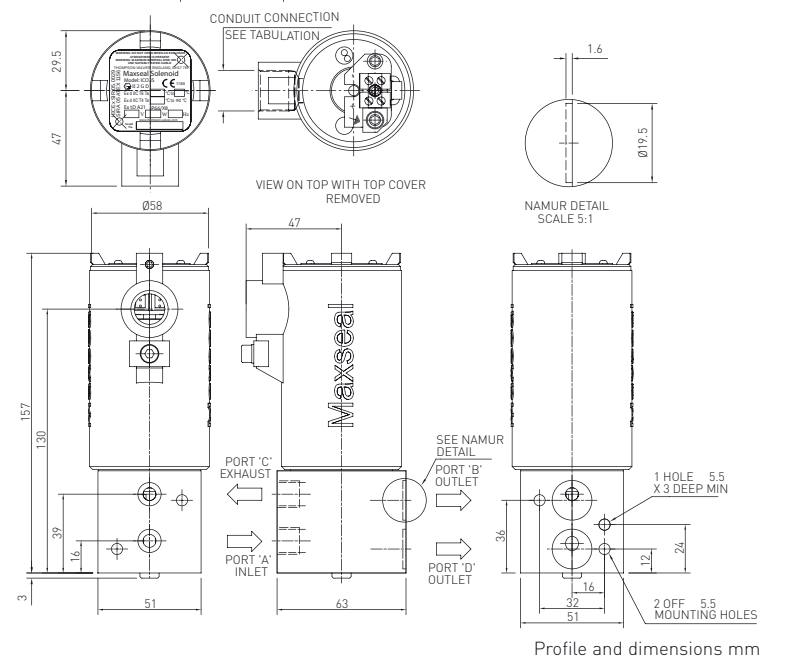


IC03S 1/4" 3/2 NAMUR 12 BAR (174 PSI) PBMR



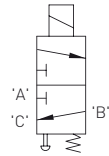
3/2 universal
Process connections:
 Namur mount with 1/4 NPT
Operation:
 Push button manual reset
Response Times (Typ):
 Pull-in: < 80 MS
 Drop Out: < 60 MS

Drop-Out Voltage:
 10 - 20% of nominal
Coil Rating:
 190 ohms
Power Consumption:
 3 watts
Ordering information:
 Quote: Y013PNAH1BS
 Options: Namur mount supplied with A4-70 mounting bolts and O-rings



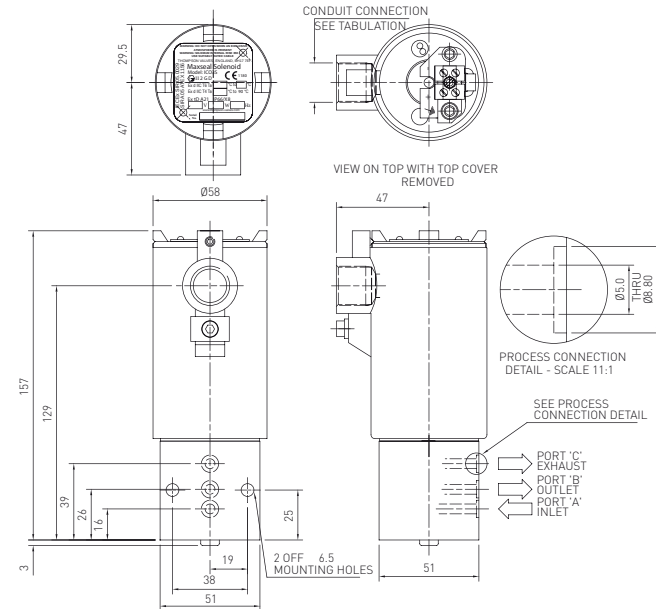
Profile and dimensions mm

IC03S 1/4" 3/2 MANIFOLD MOUNT 12 BAR (174 PSI) PBMR

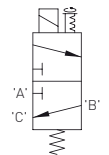


3/2 universal
Process connections:
 5mm drilled ports-flt
 MTD
Operation:
 Push button manual
 reset
Response Times (Typ):
 Pull-in: < 80 MS
 Drop Out: < 60 MS

Drop-Out Voltage:
 10 - 20% of nominal
Coil Rating:
 190 ohms
Power Consumption:
 3 watts
Ordering information:
 Quote: Y013PKFH1BS
 Options: Manifold mount

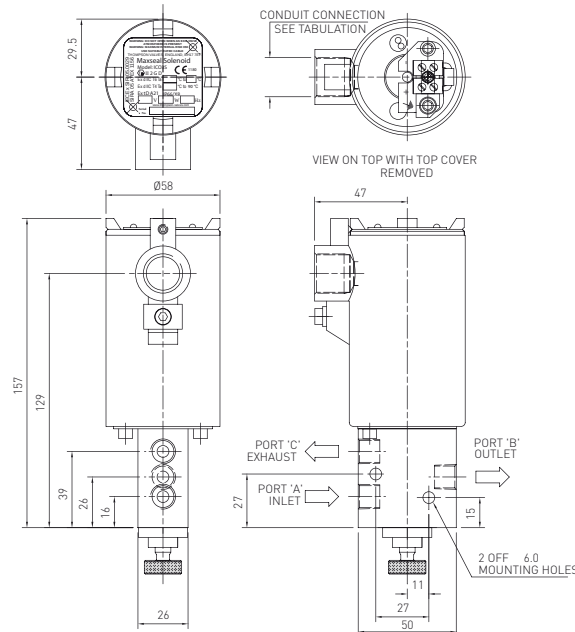


IC03S 1/4" 3/2 12 BAR (174 PSI) JSMO

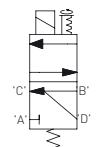


3/2 universal
Process connections:
 NPT
Operation:
 Jack screw manual
 override
Response Times (Typ):
 Pull-in: < 80 MS
 Drop Out: < 60 MS

Drop-Out Voltage:
 10 - 20% of nominal
Coil Rating:
 190 ohms
Power Consumption:
 3 watts
Ordering information:
 Quote: Y013SA1H1BS
 Options: None

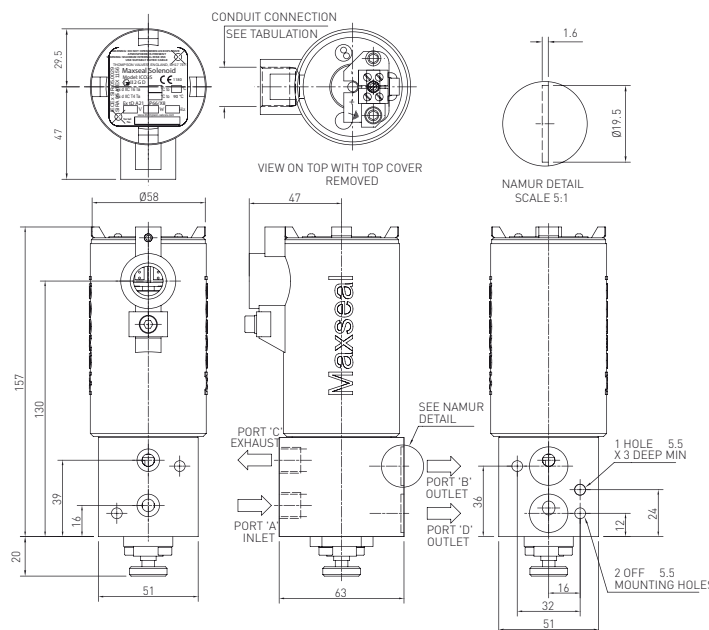


IC03S 1/4" 3/2 NAMUR 12 BAR (174 PSI) JSMO



3/2 universal
Process connections:
 Namur mount with
 1/4 NPT
Operation:
 Jackscrew manual
 override
Response Times (Typ):
 Pull-in: < 80 MS
 Drop Out: < 60 MS

Drop-Out Voltage:
 10 - 20% of nominal
Coil Rating:
 190 ohms
Power Consumption:
 3 watts
Ordering information:
 Quote: Y013SNAH1BS
 Options: Namur mount
 supplied with A4-70
 mounting bolts and
 O-rings



Profile and dimensions mm

IC03S 1/4" 5/2 12 BAR (174 PSI)

5/2 fixed port configuration
Certification T6 (Tamb = -55°C to +50°C (-67°F to +122°F)) & **T4** (Max ambient +90°C (+194°F)) or equipment must be used within 'T' class temp ranges shown.
EX II 2 GD - gas and dust environments.
Exd protection, gas group IIC.
Atex certification SIRA 05ATEX1156, complies with ATEX directive 94/9/EC
IECEX certification IECEx SIR 05.0029

Safety integrity level
 SIL 3 or SIL 4 (SIL 4 in a redundant configuration only)
Protection IP66/X8, NEMA 4X

Technical data
Max. inlet pressure:
 0-12 bar (0-174 psi)
Flow rates:
 $C_v = 0.6$ USgpm for 1 psi Δp
 $K_v = 8.7$ l/min for 1 bar (15 psi) Δp

Temperature ratings:
 Media (min/max): -55°C/90°C (-67°F/194°F)
 Ambient: must be used within 'T' class temperature ranges shown

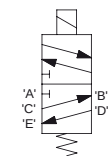
Port size:
 1/4"
Conduit / Signal Conns:
 M20 x 1.5mm ISO (F)
Media:
 Customer to specify and confirm compatibility



Electrical information

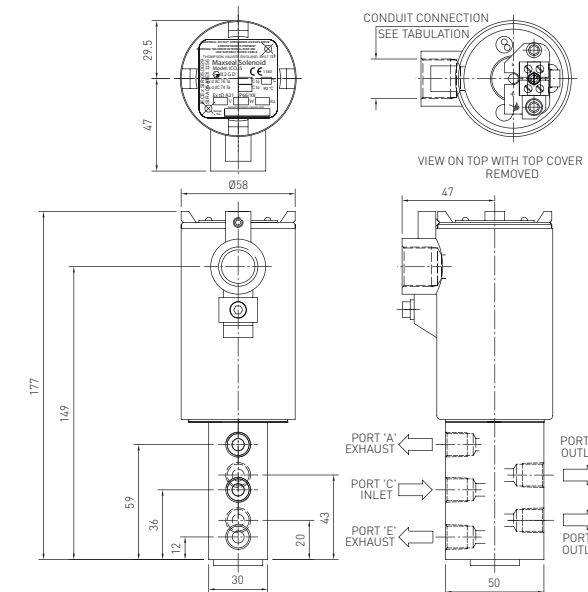
Voltage (nominal)	24V DC	Pull-in Voltage	>= 87.5% of nominal
Response Times (Typ)	Pull-in < 80 MS	Drop Out < 60 MS	Drop-Out Voltage 10 - 20% of nominal
Voltage Protection	Surge suppression diodes fitted as STD	Coil Encapsulation	Class H
Leak Performance	Bubble tight at -50 °C. <30cc/m at -55 °C.	Coil Duty Cycle	100%

IC03S 1/4" 5/2 12 BAR (174 PSI) AUTO

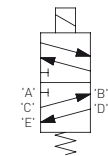


Process connections:
 NPT
Weight:
 2.3 kg
Operation:
 Automatic
Coil Rating:
 74 ohms
Power Consumption:
 7.8 watts

Materials:
 Valve body & trim - 316L stainless steel
 O-Rings seats & seals - nitrile
 Paint finish - 316LSS coil housing - unpainted
Ordering information:
 Quote: Y015AA1H1BS
 Options: None

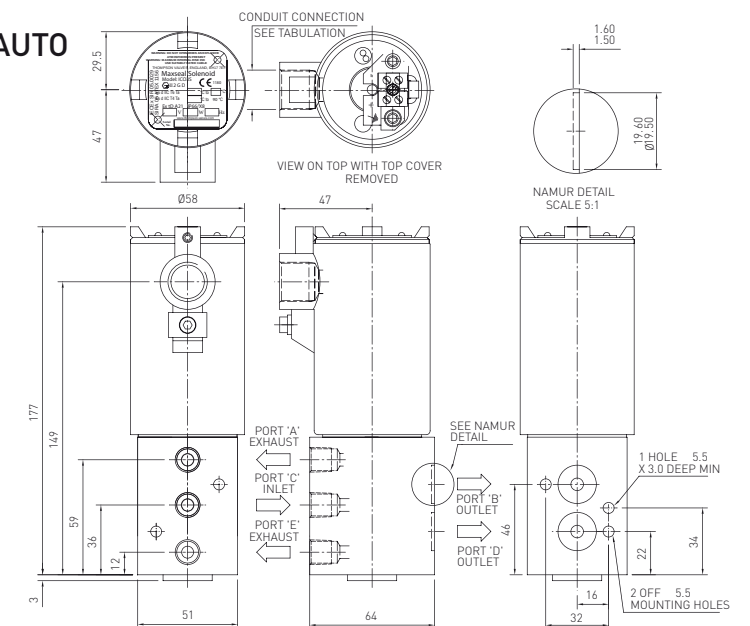


IC03S 1/4" 5/2 NAMUR 12 BAR (174 PSI) AUTO



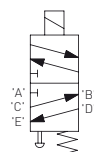
Process connections:
 Namur mount with
 1/4 NPT
Weight:
 2.3 kg
Operation:
 Automatic
Coil Rating:
 74 ohms
Power Consumption:
 7.8 watts

Materials:
 Valve body & trim - 316L stainless steel
 O-Rings seats & seals - nitrile
 Paint finish - 316LSS coil housing - unpainted
Ordering information:
 Quote: Y015ANAH1BS
 Options: Namur mount
 supplied with A4-70
 mounting bolts and
 O-rings



Profile and dimensions mm

IC03S 1/4" 5/2 12 BAR (174 PSI) PBM0



Process connections:
NPT

Weight:
2.3 kg

Operation:
Push button manual
override

Coil Rating:
74 ohms

Power Consumption:
7.8 watts

Materials:

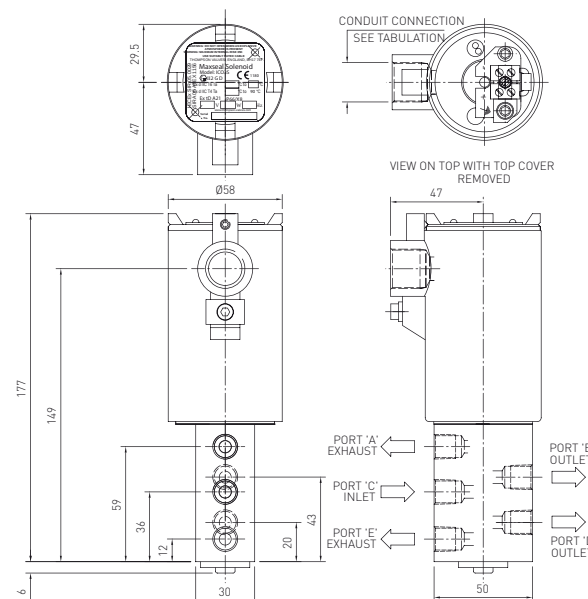
Valve body & trim - 316L
stainless steel
O-Rings seats & seals
- FKM

Paint finish - 316LSS coil
housing - unpainted

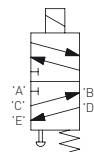
Ordering information:

Quote: Y015CA1V1BS

Options: None



IC03S 1/4" 5/2 12 BAR (174 PSI) PBMR



Process connections:
NPT

Weight:
2.5 kg

Operation:
Push button manual
reset

Coil Rating:
293 ohms

Power Consumption:
2 watts

Materials:

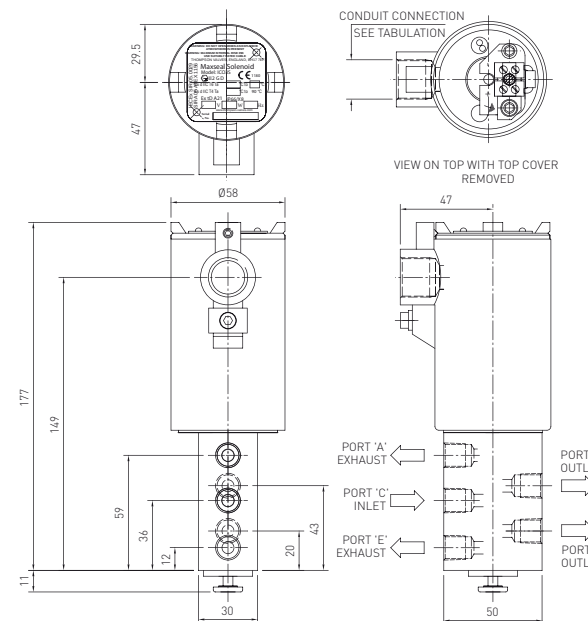
Valve body & trim - 316L
stainless steel
O-Rings seats & seals -
nitrile

Paint finish - 316LSS coil
housing - unpainted

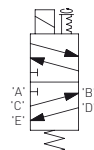
Ordering information:

Quote: Y015PA1H1BS

Options: None



IC03S 1/4" 5/2 NAMUR 12 BAR (174 PSI) JSMO



Process connections:
Namur Mount With
1/4 NPT

Weight:
2.3 kg

Operation:
Jackscrew manual
override

Coil Rating:
74 ohms

Power Consumption:
7.8 watts

Materials:

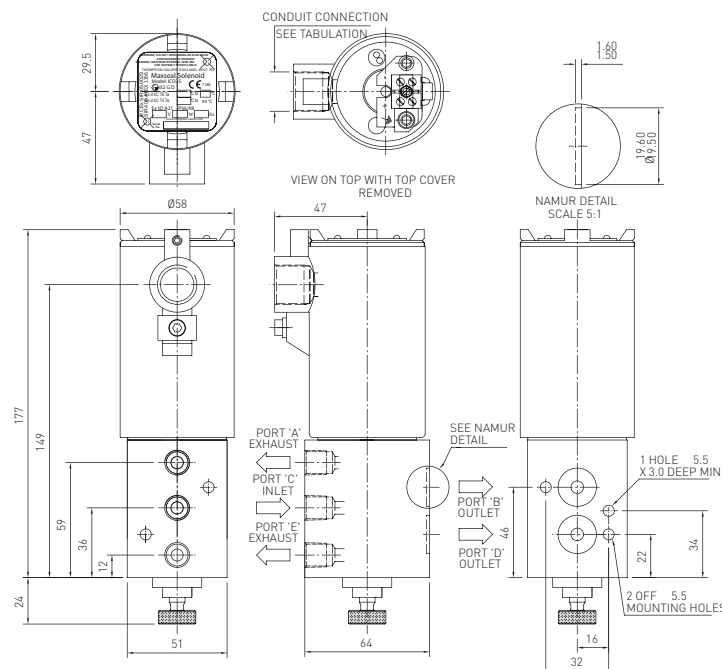
Valve body & trim - 316L
stainless steel
O-Rings seats & seals -
nitrile

Paint finish - 316LSS coil
housing - unpainted

Ordering information:

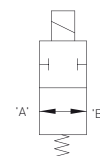
Quote: Y015SNAH1BS

Options: None



Profile and dimensions mm

IC03S 1/2" 2/2 12 BAR (174 PSI) AUTO



2/2 energise to open
(normally closed)

Certification T6 (Tamb
= -55°C to +50°C (-67°F
to +122°F)) & **T4** (Max
ambient +90°C (+194°F))
or equipment must be
used within 'T' class
temp ranges shown.

EX II 2 GD - gas and dust
environments.
Exd protection, gas
group IIC.

Atex certification SIRA
05ATEX1156, complies
with ATEX directive
94/9/EC

IECEx certification IECEx
SIR 05.0029

Safety integrity level
SIL 3 or SIL 4 (SIL 4 in a
redundant configuration
only)

Protection IP66/X8,
NEMA 4X

Technical data

Max. inlet pressure:
0-12 bar (0-174 psi)

Flow rates:
C_v = 2.1 USgpm for 1
psi Δp
K_v = 30.2 l/min for 1 bar
(15 psi) Δp

Temperature ratings:

Media (min/
max): -55°C/90°C
(-67°F/194°F)

Ambient: must be
used within 'T' class
temperature ranges
shown

Port size:
1/2"

Process connections:
NPT

Conduit / Signal Conns:
M20 x 1.5mm ISO (F)

Media:

Customer to specify and
confirm compatibility

Weight:
2.5 kg

Operation:
Automatic

Materials

Valve body & trim - 316L
stainless steel

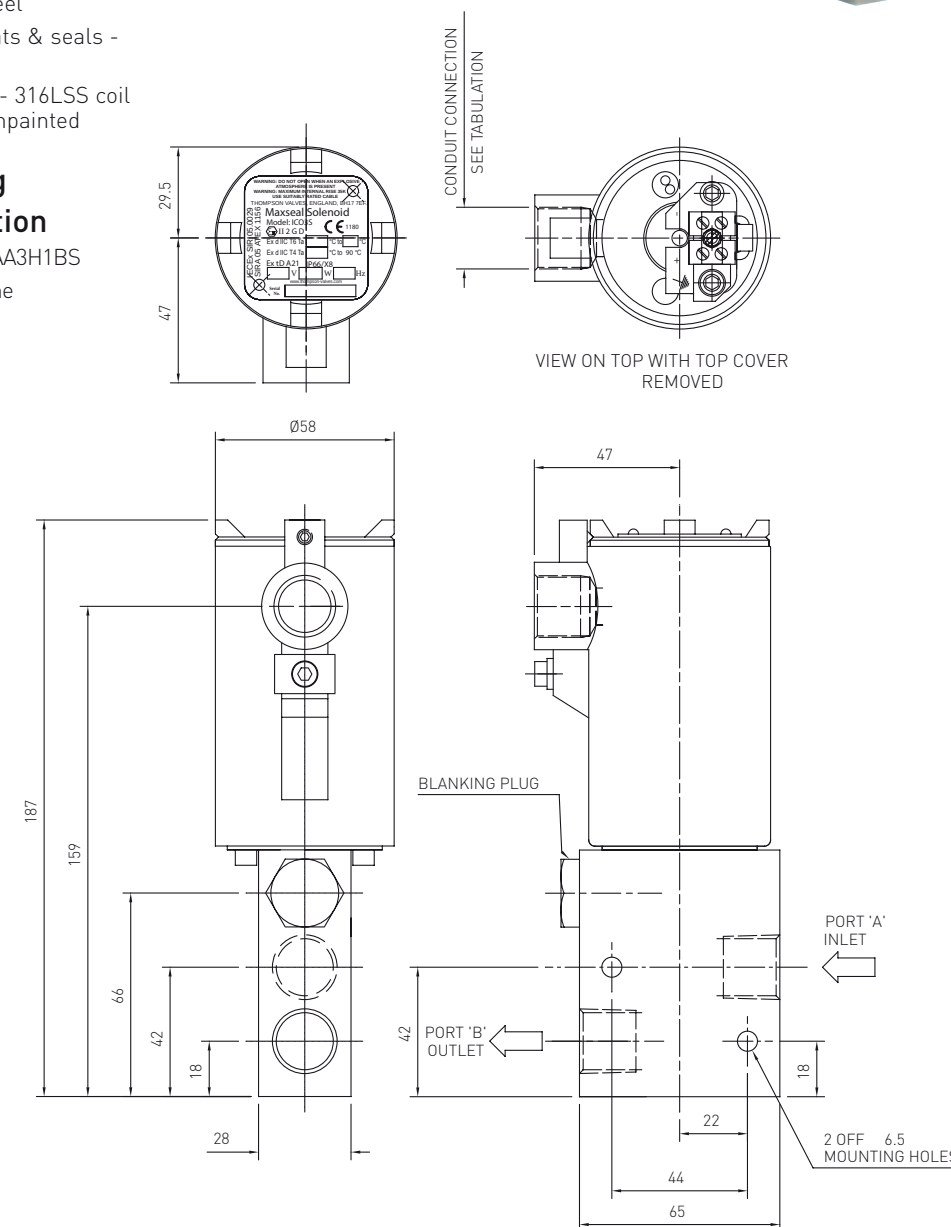
O-Rings seats & seals -
nitrile

Paint finish - 316LSS coil
housing - unpainted

Ordering information

Quote: Y011AA3H1BS

Options: None



Electrical information

Voltage (nominal)	24V DC	Pull-in Voltage	>= 87.5% of nominal
Response Times (Typ)	Pull-in < 80 MS	Drop Out < 60 MS	Drop-Out Voltage 10 - 20% of nominal
Coil Rating	74 ohms	Power Consumption	7.8 watts
Voltage Protection	Surge suppression diodes fitted as STD	Coil Encapsulation	Class H
Leak Performance	Bubble tight at -50 °C. <30cc/m at -55 °C.	Coil Duty Cycle	100%

Profile and dimensions mm

IC03S 1/2" 3/2 12 BAR (174 PSI)

3/2 universal

Certification T6 (Tamb = -55°C to +50°C [-67°F to +122°F]) & T4 (Max ambient +90°C [+194°F]) or equipment must be used within 'T' class temp ranges shown.

EX II 2 GD - gas and dust environments.
Exd IIX - Exd protection, gas group IIC.

Atex certification SIRA 05ATEX1156, complies with ATEX directive 94/9/EC

IECEX certification IECEX SIR 05.0029

Safety integrity level SIL 3 or SIL 4 (SIL 4 in a redundant configuration only)

Protection IP66/X8, NEMA 4X

Port size: 1/2"

Process connections: NPT

Conduit / Signal Conns: M20 x 1.5mm ISO (F)

Media: Customer to specify and confirm compatibility

Materials

Valve body & trim - 316L stainless steel

O-Rings seats & seals - nitrile

Paint finish - 316LSS coil housing - unpainted



Technical data

Max. inlet pressure: 0-12 bar (0-174 psi)

Temperature ratings:

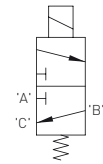
Media (min/max): -55°C/90°C [-67°F/194°F]

Ambient: must be used within 'T' class temperature ranges shown

Electrical information

Voltage (nominal)	24V DC				Pull-in Voltage	>= 87.5% of nominal
Response Times (Typ)	Pull-in	< 80 MS	Drop Out	< 60 MS	Drop-Out Voltage	10 - 20% of nominal
Coil Rating	74 ohms				Power Consumption	7.8 watts
Voltage Protection	Surge suppression diodes fitted as STD				Coil Encapsulation	Class H
Leak Performance	Bubble tight at -50 °C. <30cc/m at -55 °C.				Coil Duty Cycle	100%

IC03S 1/2" 3/2 12 BAR (174 PSI) AUTO



Flow rates:

$C_v = 2.1$ USgpm for 1 psi Δp
 $K_v = 30.2$ l/min for 1 bar (15 psi) Δp

Weight: 2.5 kg

Operation: Automatic

Coil Rating:

74 ohms

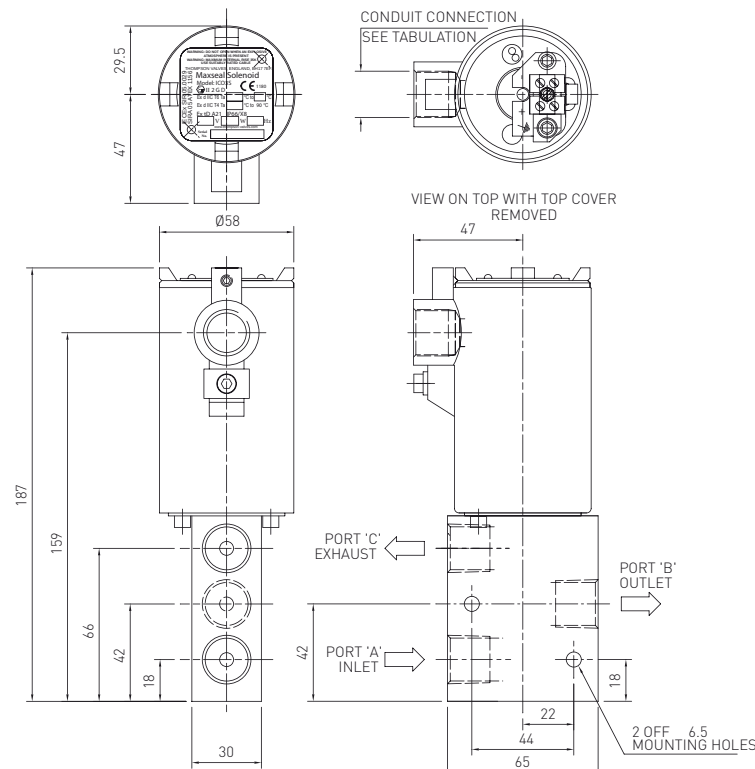
Power Consumption:

7.8 watts

Ordering information:

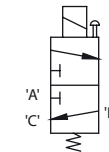
Quote: Y013AA3H1BS

Options: None



Profile and dimensions mm

IC03S 1/2" 3/2 12 BAR (174 PSI) PBM0



Flow rates:

$C_v = 2.1$ USgpm for 1 psi Δp
 $K_v = 30.2$ l/min for 1 bar (15 psi) Δp

Weight: 2.5 kg

Operation:

Push button manual override

Coil Rating:

74 ohms

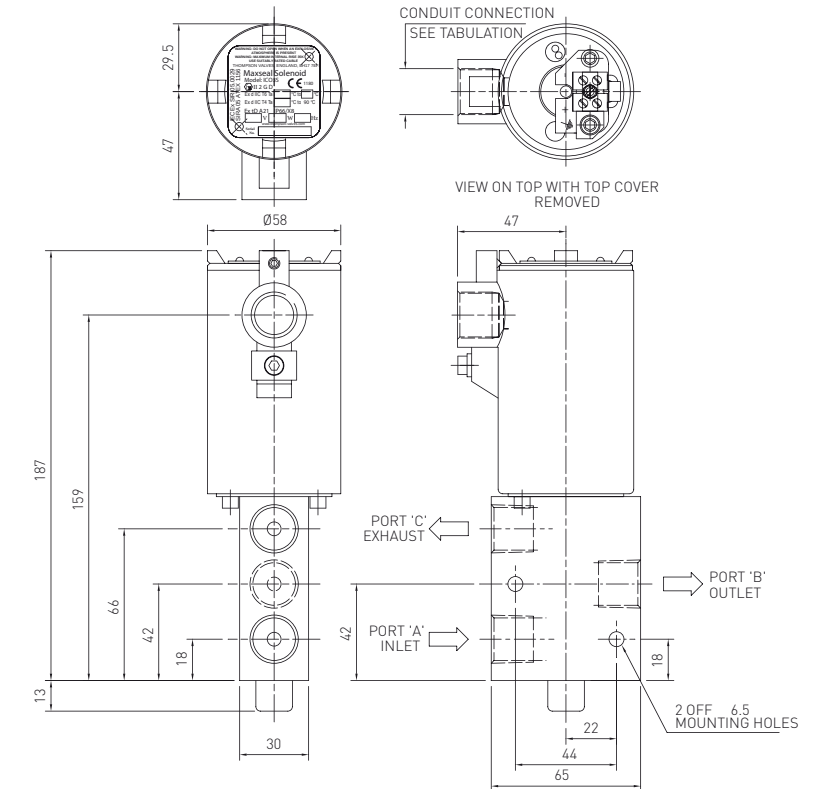
Power Consumption:

7.8 watts

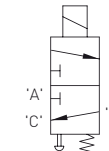
Ordering information:

Quote: Y013CA3H1BS

Options: None



IC03S 1/2" 3/2 12 BAR (174 PSI) PBMR



Process connections:

NPT

2.8 kg

Operation:

Push button manual reset

Coil Rating:

190 ohms

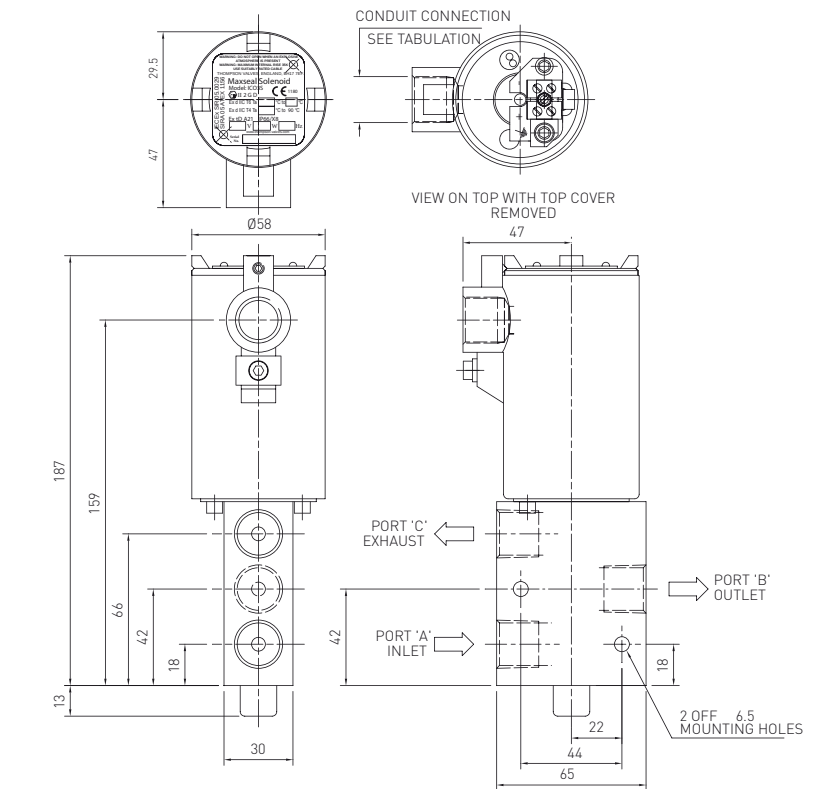
Power Consumption:

3 watts

Ordering information:

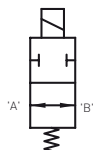
Quote: Y013PA3H1BS

Options: None



Profile and dimensions mm

IC04S 1/4" 2/2 AUTO



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

ATEX, CSA, GOST K & R, IECEx and NEMA 4X

Technical data

Maximum inlet pressure:
20 bar (290 psi)

Temperature ratings:
Media (min/max -60°C/90°C [-76°F/194°F]) Ambient (min/max 0°C/60°C [32°F/140°F])

Conduit connection:
M20 x 1.5 conduit thread, 1/2" NPT

Media:
Liquid & gases

Flow rates:
 $C_v = 0.8$ USgpm for 1 psi Δp
 $K_v = 11.5$ l/min for 1 bar (15 psi) Δp

Valve size:
1/4" balanced poppet valve

Process connections:
1/4" NPT, 1/2" BSP

Weight:
5 kg

Materials

Solenoid pot - stainless steel - BFC 316

Top cover - stainless steel - BFC 316

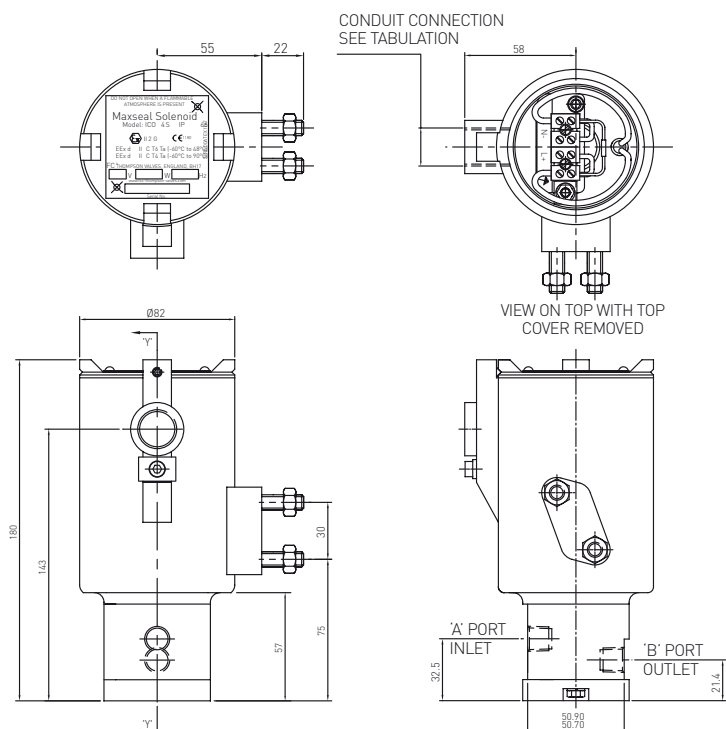
Valve body & trim materials - 316 stainless steel - 316L stainless steel to the valve body and trim materials

O-rings seats & seals -high nitrile (NBR)

Coil insulation - class H

Option selector

Model	Substitute	Y1/2/★/A/★/★/★/★/★
IC04S	Y1	
Operating pressure	Substitute	
0-20 bar	2	
0-50 bar	3	
0-207 bar	6	
0-414 bar	9	
Port config.	Substitute	
2/2 ENG/OPEN	1	
2/2 ENG/CLOSE	2	
Operation	Substitute	
Automatic	A	
Process conn.	Substitute	
1/4" NPT	A1	
1/4" BSPP	E1	
Body / trim materials	Substitute	
316 SS / 316 SS	S	
316L SS / 316L SS	T	
Voltage	Substitute	
18 / 33V DC	A	
24V DC	B	
50V DC	C	
110V DC	D	
125V DC	E	
25V AC	G	
110V AC	J	
240V AC	M	
115V DC	R	
Conduit connection	Substitute	
M20 x 1.5	1	
1/2" NPT	2	
Seat / seal materials	Substitute	
High nitrile	H	
FKM	V	
FLUROSILICONE	F	



Profile and dimensions mm

IC04S 1/4" 2/2 20 BAR

Certification EExd IIC T6 (Tamb = -60°C to +48°C [-76°F to +118°F]) or EExd IIC T4 (Tamb = -60°C to +90°C [-76°F to +194°F]).

Complies with EN 50014:1997 (amendments 1 & 2) and EN 50018:1994.

Atex certification SIRA 00ATEX1147, complies with ATEX directive 94/9/EC

IECEx certification IECEx BAS 04.0019, complies with IEC 60079-0:2000 & IEC 60079-1:2001

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

Protection IP66/X8, NEMA 4X

Technical data

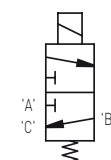
Temperature ratings:

Media (min/max): -20°C/90°C (-4°F/194°F)

Ambient: must be used within 'T' class temperature ranges shown

Conduit / Signal Conns:
M20 x 1.5mm ISO (F)

Media:
Customer to specify and confirm compatibility



2/2 energise to open (normally closed)

Max. inlet pressure:
0-20 bar (0-290 psi)

Flow rates:
 $C_v = 0.8$ USgpm for 1 psi Δp
 $K_v = 11.5$ l/min for 1 bar (15 psi) Δp

Port size:
1/4"

Coil Rating:
60 ohms

Power Consumption:
9.6 watts

Process connections:
NPT

Weight:
6.5 kg

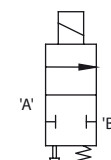
Operation:
Automatic

Materials:

Valve body & trim - aluminium bronze
O-Rings seats & seals - high nitrile
Paint finish - stainless steel coil housing - unpainted

Ordering information:
Quote: Y121AA1H1BM003
Options: Extreme service (9.6 watts)

IC04S 1/4" 2/2 20 BAR (290 PSI) PBMR EXTREME SERVICE



2/2 energise to close (normally open)

Max. inlet pressure:
0-20 bar (0-290 psi)

Flow rates:
 $C_v = 0.8$ USgpm for 1 psi Δp
 $K_v = 11.5$ l/min for 1 bar (15 psi) Δp

Port size:
1/4"

Coil Rating:
60 ohms

Power Consumption:
9.6 watts

Process connections:
NPT

Weight:
5 kg

Operation:
Push button manual reset

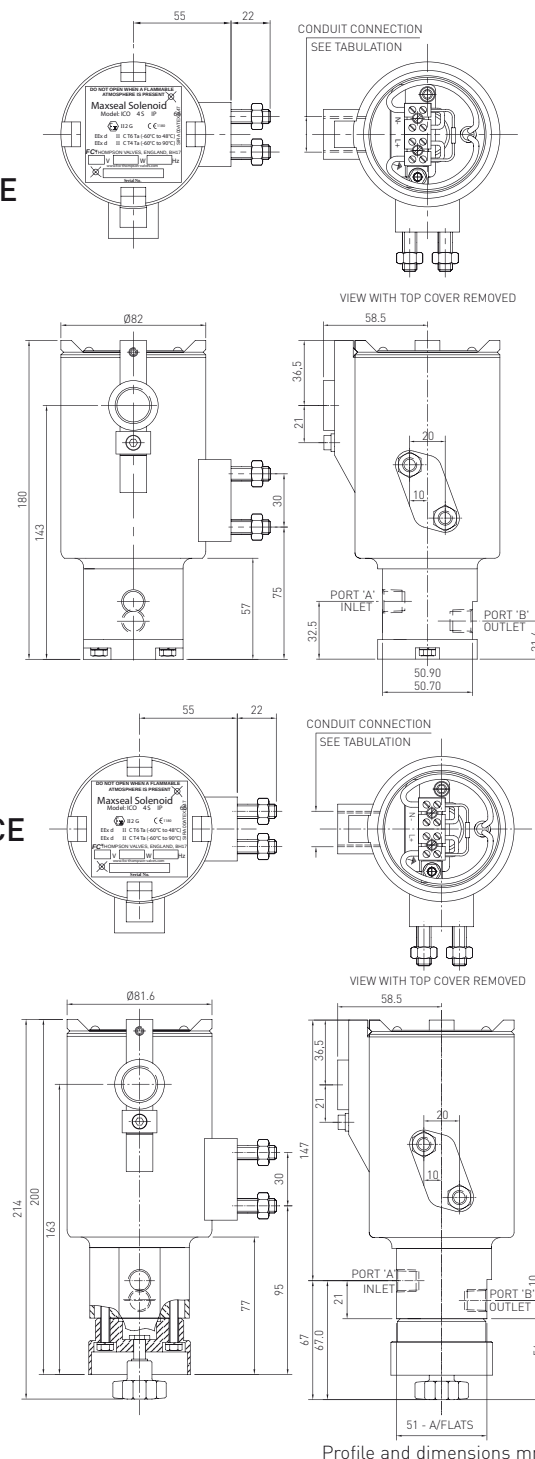
Materials:

Valve body & trim - 316L stainless steel
O-Rings seats & seals - high nitrile
Paint finish - stainless steel coil housing - unpainted

Ordering information:
Quote: Y122PA1H1BS003
Options: Extreme service (9.6 Watts)

Electrical information

Voltage (nominal)	24V DC
Response Times (Typ)	Pull-in < 150 MS Drop Out < 80 MS
Voltage Protection	Surge suppression diodes fitted as STD
Leak Performance	Bubble tight
Pull-in Voltage	>= 87.5% of nominal
Drop-Out Voltage	10 - 20% of nominal
Coil Encapsulation	Class H
Coil Duty Cycle	100%



Profile and dimensions mm

IC04S 1/4" 3/2 20 BAR

Model: IC04S 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

ATEX, CSA, GOST K & R,
IECEX and NEMA 4X

Technical data

**Maximum inlet
pressure:**
20 bar (290 psi)

Flow rates:
 $C_v = 0.8$ USgpm for 1
psi Δp
 $K_v = 11.5$ l/min for 1 bar
(15 psi) Δp

Process connections:
NPT

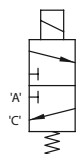
Conduit connection:
M20 x 1.5 conduit thread

Media:
Customer to specify and
confirm compatibility

Option selector

Model	Substitute	Y1/2/3/★/★★/★/★/★/★	Body / trim materials	Substitute
IC04S	Y1		316 SS / 316 SS	S
			316L SS / 316L SS	T
Operating pressure	Substitute		Voltage	Substitute
0-20 bar	2		18 / 33V DC	A
			24V DC	B
			50V DC	C
			25V AC	G
			110V AC	J
			240V AC	M
			115V DC	R
Port config.	Substitute		Conduit connection	Substitute
3/2 UNIVERSAL	3		M20 x 1.5	1
			1/2" NPT	2
Operation	Substitute			
Automatic	A			
Automatic latching lever	B			
Push button manual override	C			
Push button manual reset	P			
Jack screw manual overrides	S			
Tamperproof manual reset button	T			
Process conn.	Substitute			
1/4" NPT	A1			
1/4" BSPP	E1			
Seat / seal materials	Substitute			
High nitrile	H			
Viton®	V			

IC04S 1/4" 3/2 20 BAR (290 PSI) AUTO



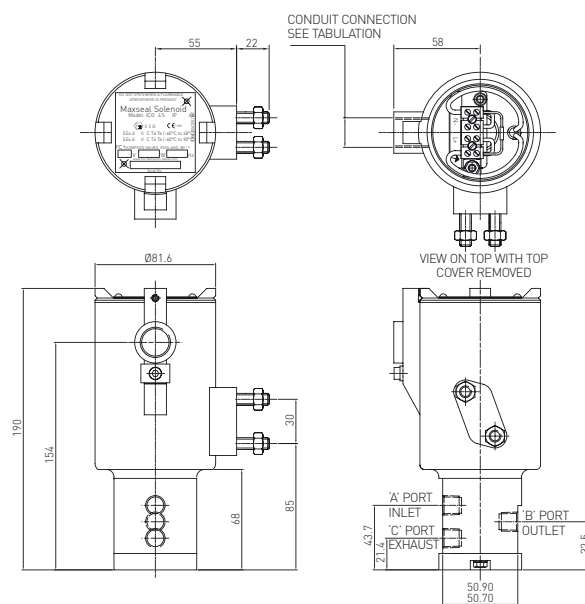
Temperature ratings:
Media (min/max
-20°C/90°C (-4°F/194°F))
Ambient (min/max
0°C/60°C (32°F/140°F))

Valve size:
1/4" balanced poppet
valve

Weight:
5.5 kg

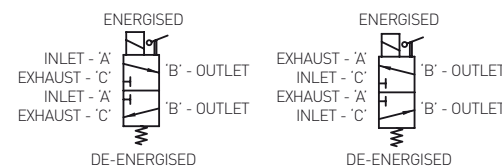
Materials:

Solenoid pot - stainless
steel - BFC 316
Top cover - stainless
steel - BFC 316
Valve body & trim
materials -
316 stainless steel -
316L stainless steel to
the valve body and trim
materials
O-rings seats & seals
-high nitrile (NBR)
Coil insulation - class H



Profile and dimensions mm

IC04S 1/4" 3/2 20 BAR (290 PSI) A-L-L



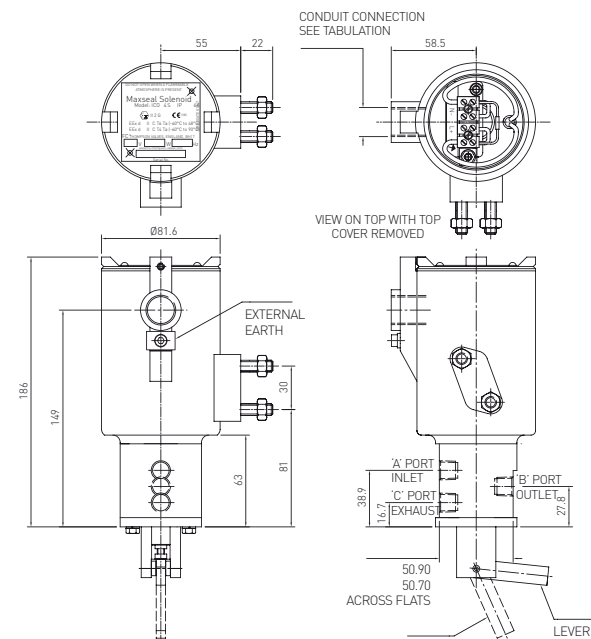
Temperature ratings:
Media (min/max
-20°C/90°C (-4°F/194°F))
Ambient (min/max
0°C/60°C (32°F/140°F))

Valve size:
1/4" balanced poppet
valve

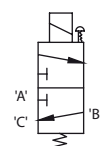
Weight:
5.5 kg

Materials:
Solenoid pot - stainless
steel - BFC 316

Top cover - stainless
steel - BFC 316
Valve body & trim
materials -
316 stainless steel -
316L stainless steel to
the valve body and trim
materials
O-rings seats & seals
-high nitrile (NBR)
Seats - nylon 66
Coil insulation - class H



IC04S 1/4" 3/2 20 BAR (290 PSI) JSMO



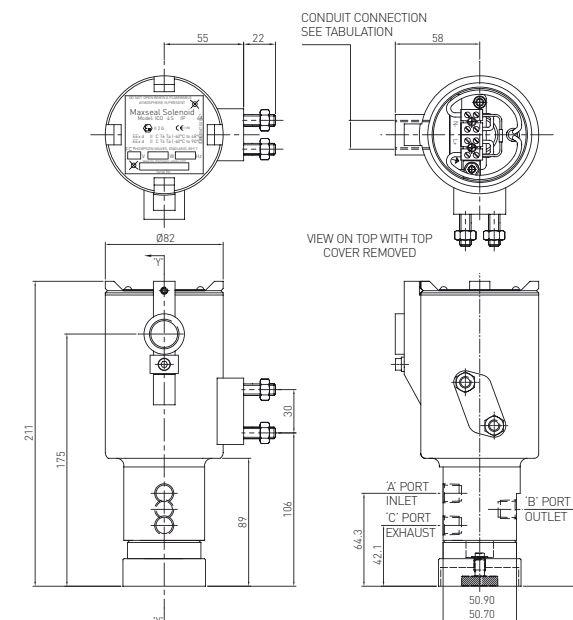
Temperature ratings:
Media (min/max
-20°C/90°C (-4°F/194°F))
Ambient (min/max
0°C/60°C (32°F/140°F))

Valve size:
1/4" balanced poppet
valve

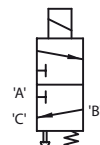
Weight:
6 kg

Materials:
Solenoid pot - stainless
steel - BFC 316
Top cover - stainless

steel - BFC 316
Valve body & trim
materials -
316 stainless steel -
316L stainless steel to
the valve body and trim
materials
O-rings seats & seals
-high nitrile (NBR)
Coil insulation - class H



IC04S 1/4" 3/2 20 BAR (290 PSI) PBMR



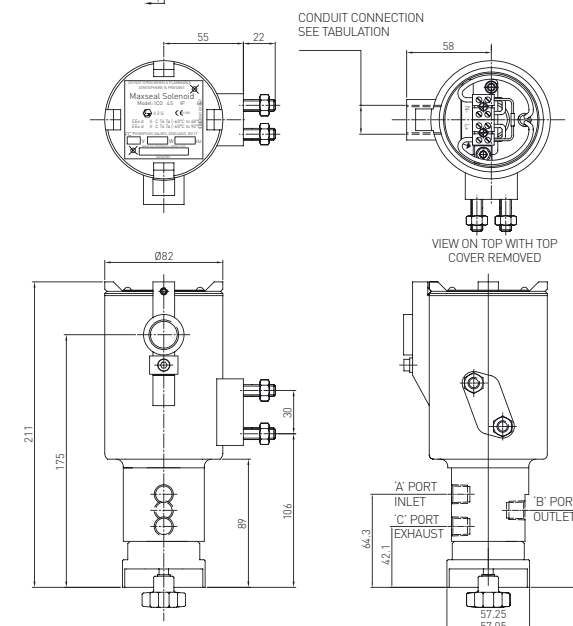
Temperature ratings:
Media (min/max
-20°C/90°C (-4°F/194°F))
Ambient (min/max
0°C/60°C (32°F/140°F))

Valve size:
1/4" balanced poppet
valve

Weight:
5.5 kg

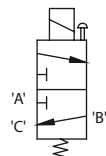
Materials:
Solenoid pot - stainless
steel - BFC 316
Top cover - stainless

steel - BFC 316
Valve body & trim
materials -
316 stainless steel -
316L stainless steel to
the valve body and trim
materials
O-rings seats & seals
-high nitrile (NBR)
Coil insulation - class H



Profile and dimensions mm

IC04S 1/4" 3/2 20 BAR (290 PSI) PBM0

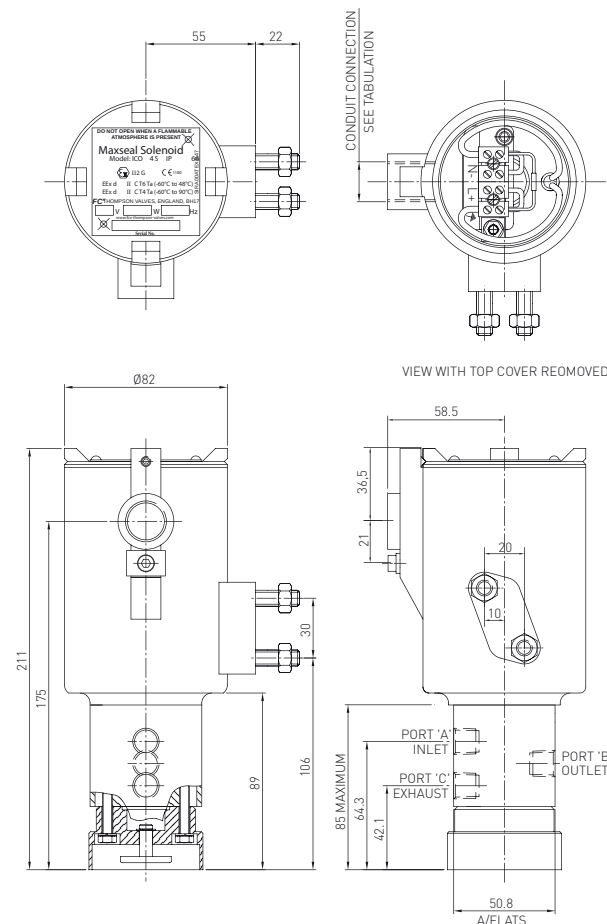


Temperature ratings:
Media (min/max):
-20°C/90°C (-4°F/194°F)
Ambient: must be
used within 'T' class
temperature ranges
shown
Weight:
5 kg

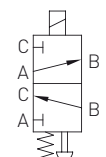
Materials:
Valve body & trim - 316L
stainless steel
O-Rings seats & seals -
high nitrile
Paint finish - stainless
steel coil housing -
unpainted

Electrical information

Voltage (nominal)	24V DC			
Response Times (Typ)	Pull-in	< 150 MS	Drop Out	< 80 MS
Coil Rating	125 ohms			
Voltage Protection	Surge suppression diodes fitted as STD			
Leak Performance	Bubble tight			
Pull-in Voltage	>= 87.5% of nominal			
Drop-Out Voltage	10 - 20% of nominal			
Power Consumption	4.5 watts			
Coil Encapsulation	Class H			
Coil Duty Cycle	100%			



IC04S 1/4" 3/2 20 BAR (290 PSI) TPMR

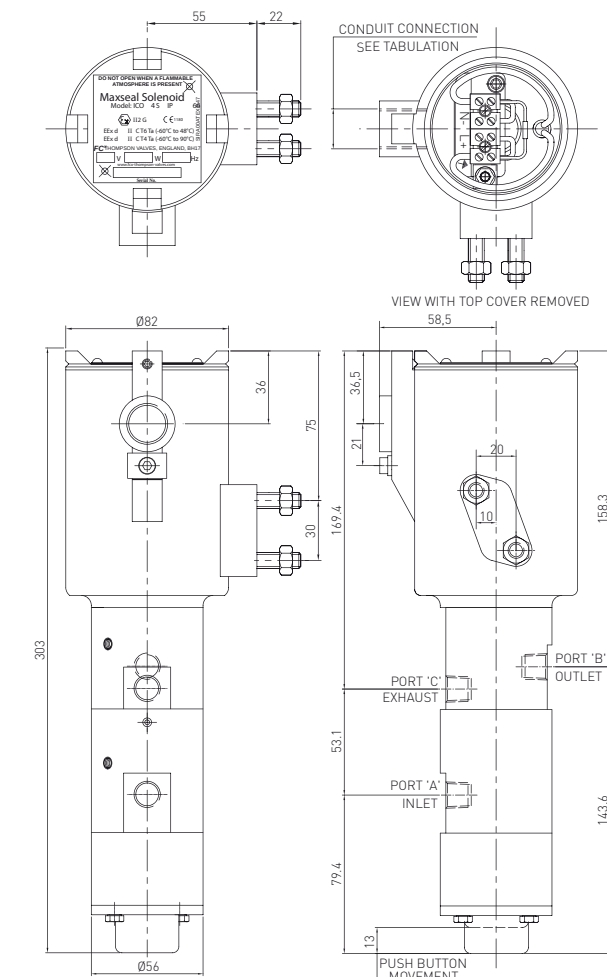


Temperature ratings:
Media (min/
max): -20°C/120°C
(-4°F/248°F)
Ambient: must be
used within 'T' class
temperature ranges
shown
Weight:
6.5 kg

Materials:
Valve body & trim - 316L
stainless steel
O-Rings seats & seals -
high nitrile
Paint finish - stainless
steel coil housing -
unpainted

Electrical information

Voltage (nominal)	24V DC			
Response Times (Typ)	Pull-in	< 150 MS	Drop Out	< 80 MS
Coil Rating	125 ohms			
Voltage Protection	Surge suppression diodes fitted as STD			
Leak Performance	Bubble tight			
Pull-in Voltage	>= 87.5% of nominal			
Drop-Out Voltage	10 - 20% of nominal			
Power Consumption	4.5 watts			
Coil Encapsulation	Class H			
Coil Duty Cycle	100%			



Profile and dimensions mm

IC04S 1/4" 3/2 20 BAR (290 PSI) EXTREME SERVICE / HIGH TEMPERATURE

Certification EExd IIC
T6 (Tamb = -60°C to
+48°C [-76°F to +118°F])
or EExd IIC T4 (Tamb =
-60°C to +90°C [-76°F
to +194°F]).
Complies with
EN 50014:1997
(amendments 1 & 2)
and EN 50018:1994.
Atex certification SIRA
00ATEX1147, complies
with ATEX directive
94/9/EC
IECEx certification IECEx
BAS 04.0019, complies
with IEC 60079-0:2000 &
IEC 60079-1:2001
**SIL 3 or SIL 4 (SIL 4 in a
redundant configuration
only)**

Protection IP66/X8,
NEMA 4X

Technical data

Max. inlet pressure:
0-20 bar (0-290 psi)

Flow rates:
C_v = 0.8 USgpm for 1
psi Δp
K_v = 11.5 l/min for 1 bar
(15 psi) Δp

Port size:
1/4"

Process connections:
NPT

Conduit / Signal Conns:
M20 x 1.5mm ISO (F)

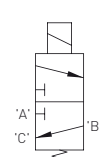
Media:
Customer to specify and
confirm compatibility

Electrical information

Voltage (nominal)	24V DC				Pull-in Voltage	>= 87.5% of nominal	
Response Times (Typ)	Pull-in	< 150 MS	Drop Out	< 80 MS	Drop-Out Voltage	10 - 20% of nominal	
Voltage Protection	Surge suppression diodes fitted as STD				Coil Encapsulation	Class H	
Leak Performance	Bubble tight				Coil Duty Cycle	100%	



IC04S 1/4" 3/2 20 BAR (290 PSI) IN AUTO EXTREME SERVICE



Temperature ratings:
Media (min/max):
-20°C/90°C (-4°F/194°F)
Ambient: must be
used within 'T' class
temperature ranges
shown

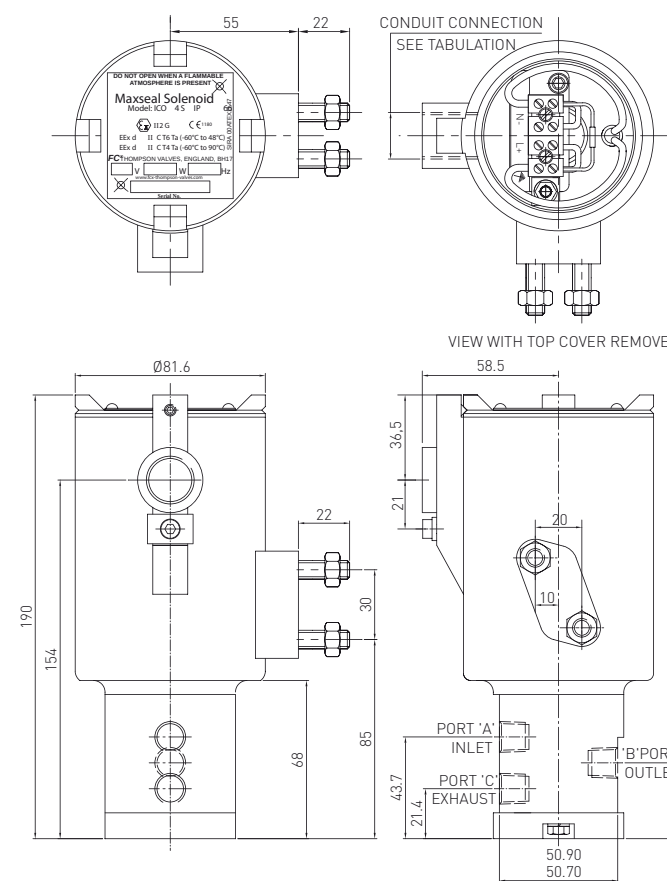
Coil Rating:
60 ohms

Power Consumption:
9.5 watts

Weight:
5.5 kg

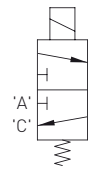
Operation:
Automatic

Materials:
Valve body & trim -
titanium
O-Rings seats & seals -
high nitrile
Paint finish - stainless
steel coil housing -
unpainted
Ordering information:
Quote: Y123AA1H1B3003
Options: Extreme service
(9.6 Watts)



Profile and dimensions mm

IC04S 1/4" 3/2 20 BAR (290 PSI) IN AUTO HIGH TEMP SPACER



Temperature ratings:
Media (min/max): -20°C/120°C
(-4°F/248°F)

Ambient: must be used within 'T' class temperature ranges shown

Coil Rating:
125 ohms

Power Consumption:
4.5 watts

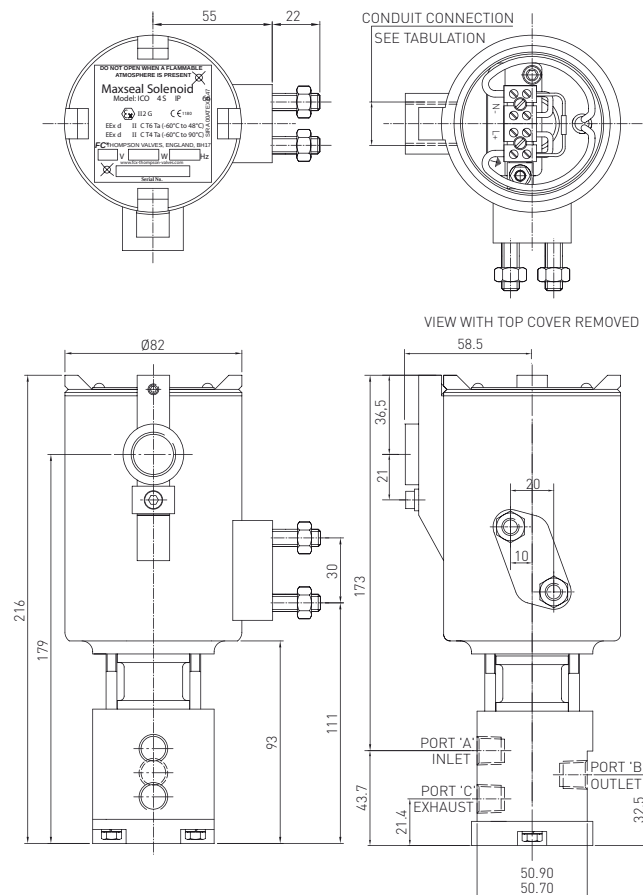
Weight:
5 kg

Operation:
Automatic

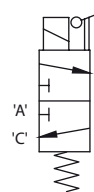
Materials:
Valve body & trim - 316L stainless steel
O-Rings seats & seals - high nitrile

Paint finish - stainless steel coil housing - unpainted

Ordering information:
Quote: Y123AA1H1BS002
Options: High temperature spacer



IC04S 1/4" 3/2 20 BAR (290 PSI) EXTREME SERVICE A.L.L.



Temperature ratings:
Media (min/max): -20°C/90°C (-4°F/194°F)

Ambient: must be used within 'T' class temperature ranges shown

Coil Rating:
60 ohms

Power Consumption:
9.6 watts

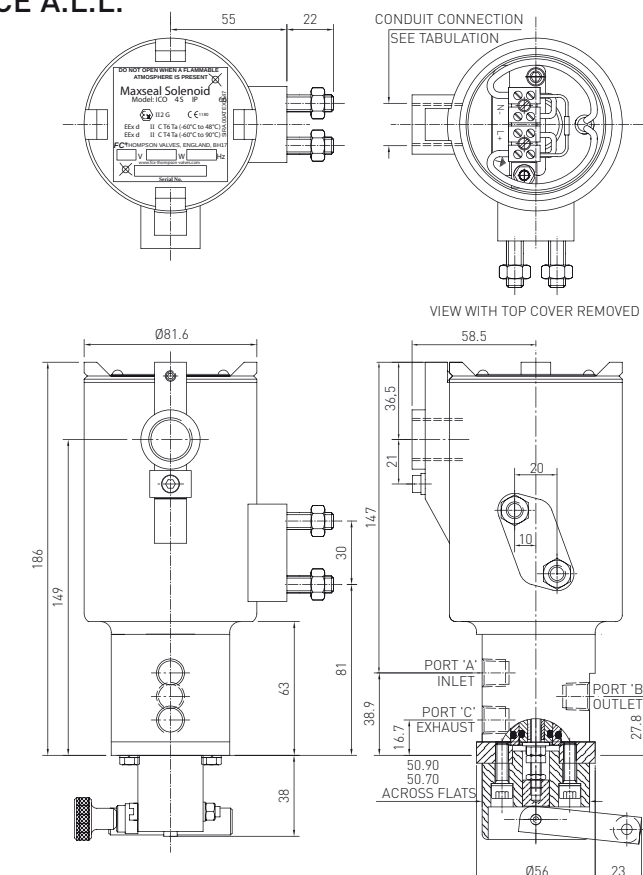
Weight:
TBA Kg

Operation:
Automatic latching lever

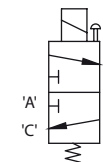
Materials:
Valve body & trim - aluminium bronze
O-Rings seats & seals - high nitrile

Paint finish - stainless steel coil housing - unpainted

Ordering information:
Quote: Y123BA1H1BM017
Options: Extreme service (9.6 watts)



IC04S 1/4" 3/2 20 BAR (290 PSI) EXTREME SERVICE PBM0



Temperature ratings:
Media (min/max): -20°C/90°C (-4°F/194°F)

Ambient: must be used within 'T' class temperature ranges shown

Coil Rating:
60 ohms

Power Consumption:
9.6 watts

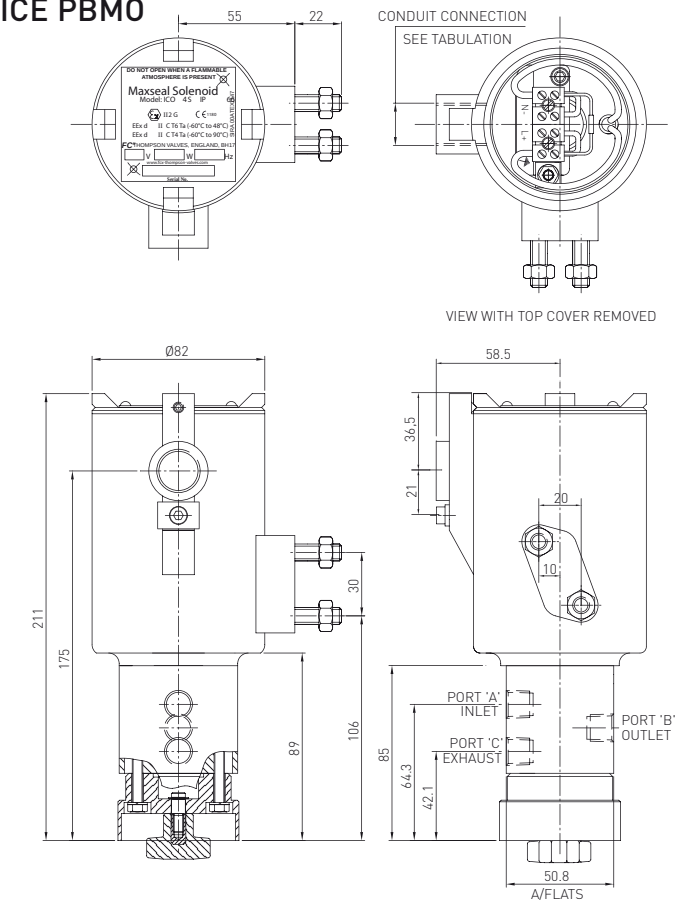
Weight:
5 kg

Operation:
Push button manual override

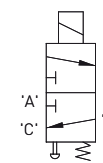
Materials:
Valve body & trim - aluminium bronze
O-Rings seats & seals - high nitrile

Paint finish - stainless steel coil housing - unpainted

Ordering information:
Quote: Y123CA1H1BM003
Options: Extreme service (9.6 watts)



IC04S 1/4" 3/2 20 BAR (290 PSI) EXTREME SERVICE PBMR



Temperature ratings:
Media (min/max): -50°C/50°C (-58°F/122°F)

Ambient: must be used within 'T' class temperature ranges shown

Coil Rating:
1500 ohms

Power Consumption:
8 watts

Weight:
5 kg

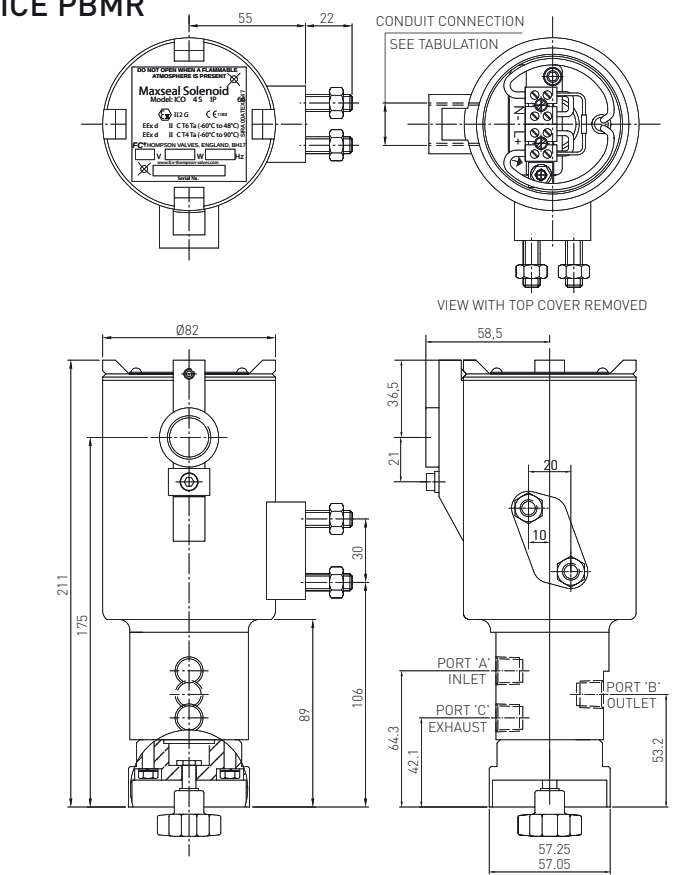
Operation:
Push button manual reset

Materials:
Valve body & trim - 316L stainless steel
O-Rings seats - low nitrile

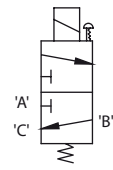
O-Rings seals - fluorosilicone

Paint finish - stainless steel coil housing - unpainted

Ordering information:
Quote: Y123PA1L1DS003
Options: Extreme service valve



IC04S 1/4" 3/2 20 BAR (290 PSI) EXTREME SERVICE JSMO



Temperature ratings:
Media (min/max):
-20°C/90°C [-4°F/194°F]

Ambient: must be used within 'T' class temperature ranges shown

Coil Rating:
60 ohms

Power Consumption:
9.6 watts

Weight:
7 kg

Operation:
Jackscrew manual override

Materials:

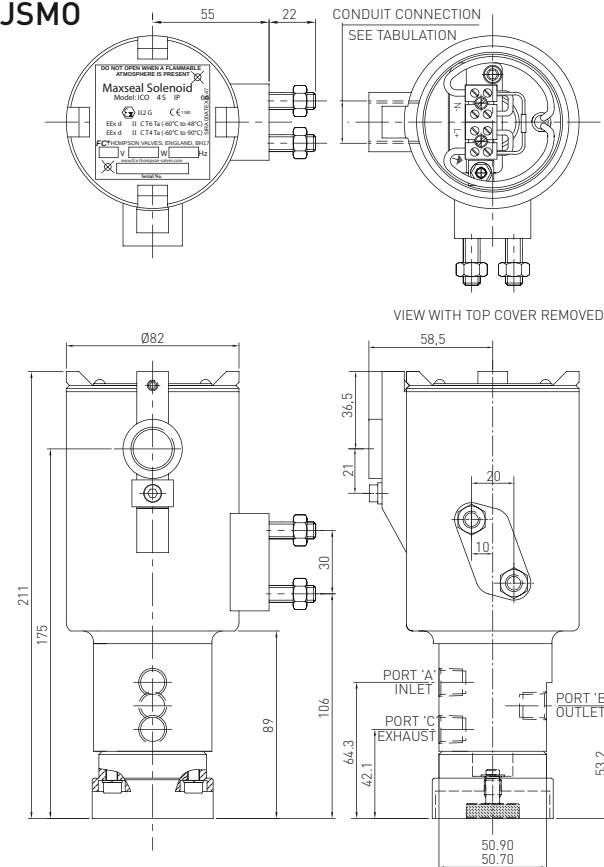
Valve body & trim - aluminium bronze
O-Rings seats & seals - high nitrile

Paint finish - stainless steel coil housing - unpainted

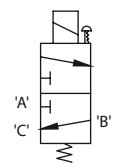
Ordering information:

Quote: Y123SA1H1BM003

Options: Extreme service (9.6 watts)



IC04S 1/4" 3/2 20 BAR (290 PSI) HIGH TEMP SPACER JSMO



Temperature ratings:
Media (min/max): -20°C/120°C [-4°F/248°F]

Ambient: must be used within 'T' class temperature ranges shown

Coil Rating:
125 ohms

Power Consumption:
4.5 watts

Weight:
5.5 kg

Operation:
Jackscrew manual override

Materials:

Valve body & trim - 316L stainless steel

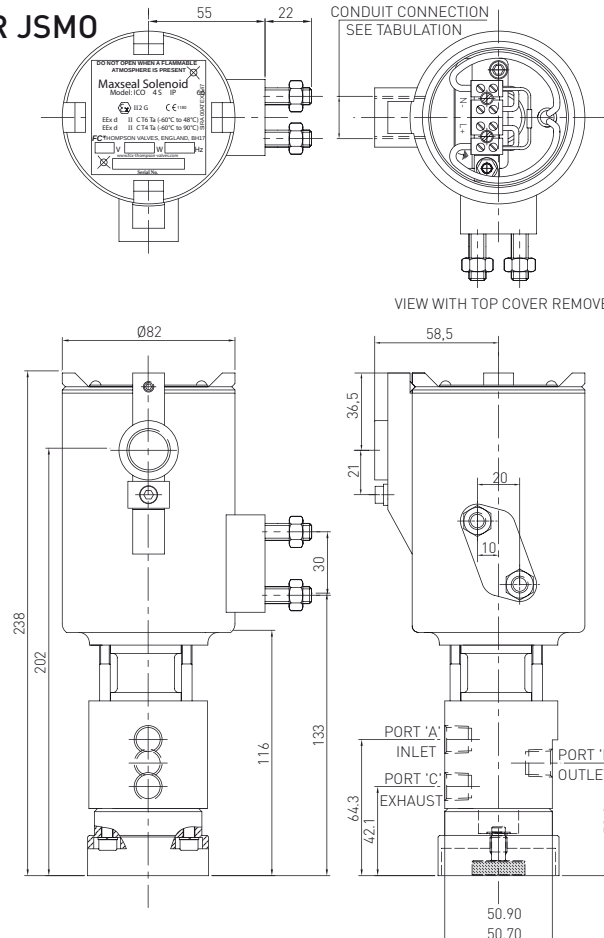
O-Rings seats & seals - high nitrile

Paint finish - stainless steel coil housing - unpainted

Ordering information:

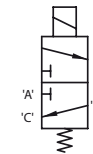
Quote: Y123SA1H1BS002

Options: High temperature spacer



Profile and dimensions mm

IC04S 1/4" 3/2 50 BAR (725 PSI) AUTO



Model: IC04S 1/4" 3/2 UNI

Direct acting solenoid valve

Low pressure, high flow

Max inlet pressure 50 bar (725 psi)

Reliable and long life, ideal for a one time installation

Control of pneumatic or hydraulic operated equipment

ATEX, CSA, GOST K & R, IECEx and NEMA 4X

Technical data

Maximum inlet pressure:
50 bar (725 psi)

Flow rates:

$C_v = 0.6$ USgpm for 1 psi Δp
 $K_v = 8.64$ l/min for 1 bar (15 psi) Δp

Temperature ratings:

Media (min/max -20°C/90°C [-4°F/194°F]) Ambient (min/max 0°C/60°C [32°F/140°F])

Valve size:

1/4" balanced poppet valve

Process connections:

1/4" NPT, 1/2" BSP

Conduit connection:

M20 x 1.5 conduit thread, 1/2" NPT

Media:

Liquid & gases

Weight:

5.5 kg

Materials

Solenoid pot - stainless steel - BFC 316

Top cover - stainless steel - BFC 316

Valve body & trim materials - 316 stainless steel - 316L stainless steel to the valve body and trim materials

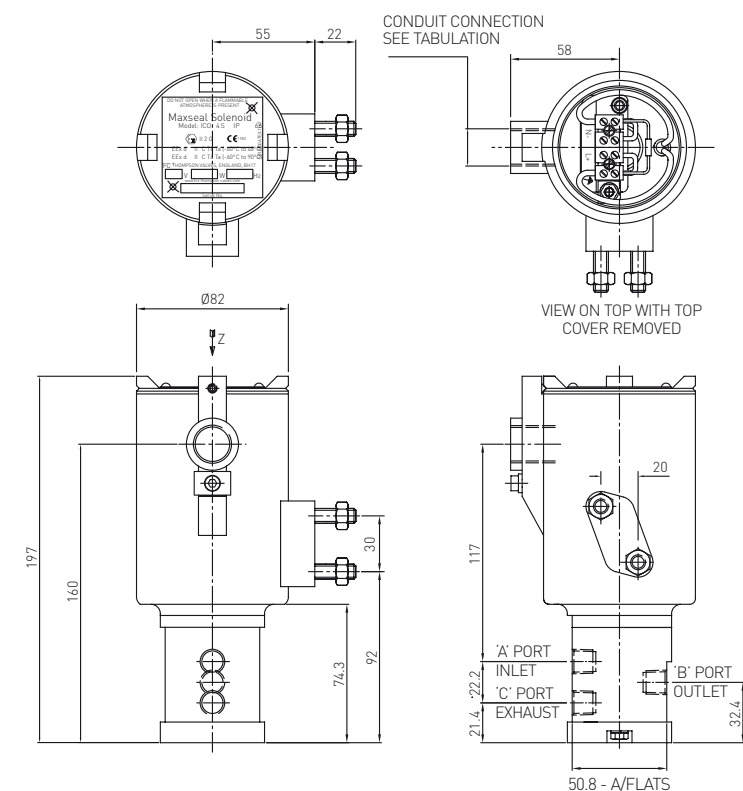
O-rings seats & seals - high nitrile (NBR)

Coil insulation - class H



Option selector

Model	Substitute	Y1/3/3/A/★/★/★/★	Body / trim materials	Substitute
IC04S	Y1		316 SS / 316 SS	S
			316L SS / 316L SS	T
Operating pressure	Substitute		Voltage	Substitute
0-50 bar	3		18 / 33V DC	A
			24V DC	B
Port config.	Substitute		50V DC	C
3/2 UNIVERSAL	3		25V AC	G
			110V AC	J
Operation	Substitute		240V AC	M
Automatic	A		115V DC	R
			Conduit connection	Substitute
Process conn.	Substitute		M20 x 1.5	1
1/4" NPT	A1		1/2" NPT	2
1/4" BSPP	E1			
			Seat / seal materials	Substitute
			High nitrile	H
			Viton®	V



Profile and dimensions mm

IC04S 1/4" 5/2

Model: ICO4S 1/4" 5/2 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
ATEX, CSA, GOST K & R,
IECEX and NEMA 4X

Technical data

Maximum inlet pressure:
20 bar (290 psi)

Flow rates:
 $C_v = 0.8$ USgpm for 1 psi Δp
 $K_v = 11.5$ l/min for 1 bar
 (15 psi) Δp

Temperature ratings:
Media (min/max -20°C/90°C
[-4°F/194°F]) Ambient (min/
max 0°C/60°C [32°F/140°F])

Valve size:
1/4" balanced poppet valve

Process connections:
1/4" NPT, 1/2" BSP

Conduit connection:
M20 x 1.5 conduit thread,
1/2" NPT

Media:
Customer to specify and confirm compatibility

Materials

Valve body & trim - 316L stainless steel
O-Rings seats & seals - high nitrile
Paint finish - stainless steel coil housing - unpainted

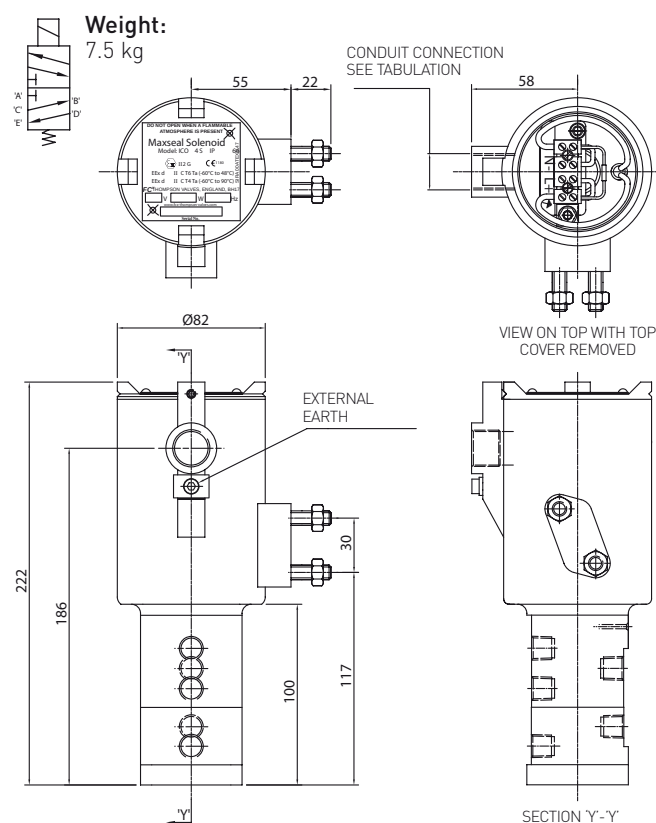
Option selector

Model	Substitute		Body / trim materials	Substitute
IC04S	Y1		316 SS / 316 SS	S
			316L SS / 316L SS	T
Operating pressure	Substitute		Voltage	Substitute
0-20 bar	2		18 / 33V DC	A
Port config.	Substitute		24V DC	B
5/2 UNIVERSAL	5		50V DC	C
			110V DC	D
Operation	Substitute		125V DC	E
Automatic	A		25V AC	G
Lever manual reset	L		110V AC	J
Push button manual reset	P		240V AC	M
			Conduit connection	Substitute
Process conn.	Substitute		M20 x 1.5	1
1/4" NPT	A1		1/2" NPT	2
1/4" BSPP	E1			
Seat / seal materials	Substitute			
High nitrile	H			
Viton®	V			



IC04S 1/4" 5/2 AUTO

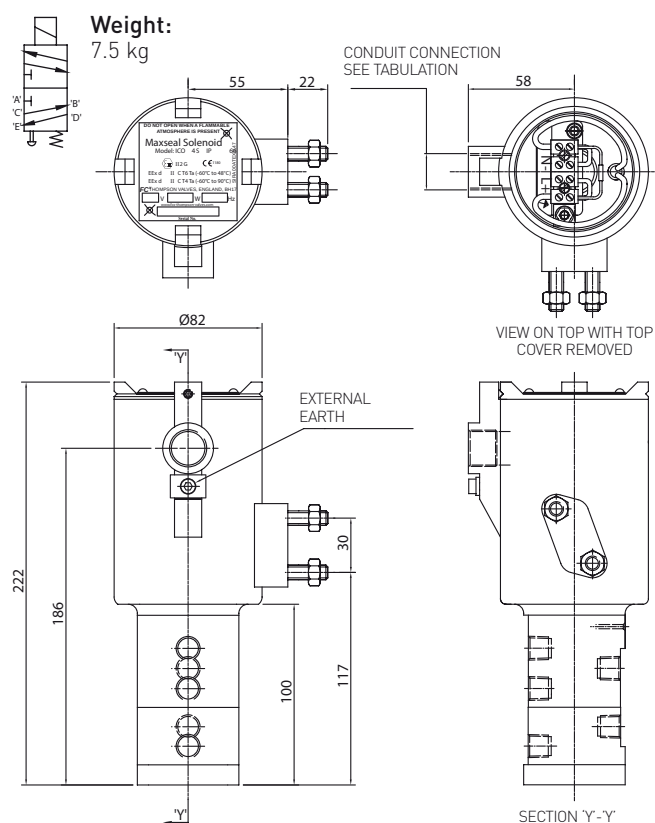
Weight:
7.5 kg



Profile and dimensions mm

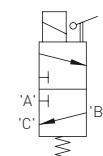
IC04S 1/4" 5/2 PBMR

Weight:
7.5 kg



SECTION 'Y'-Y

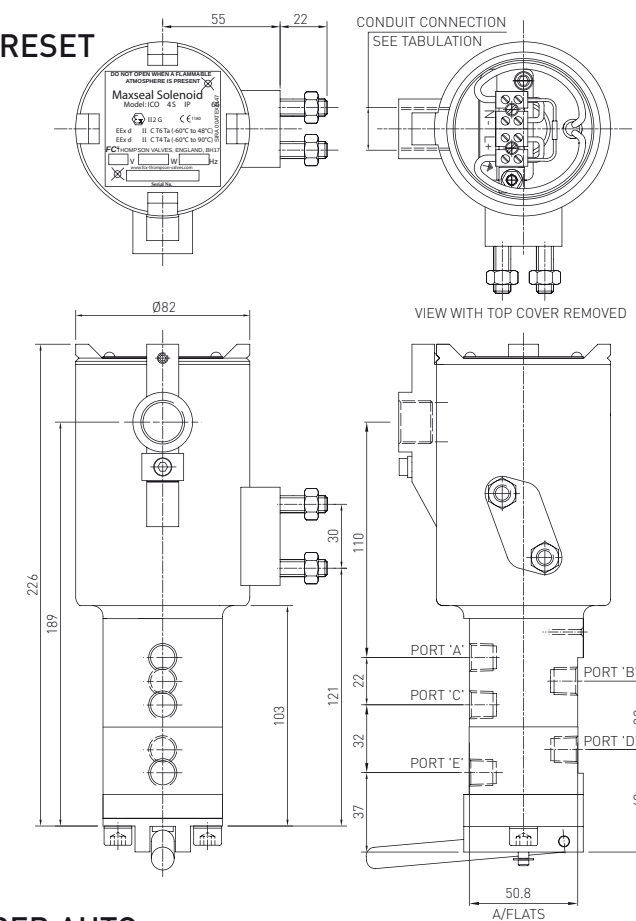
IC04S 1/4" 5/2 20 BAR (290 PSI) LEVER MANUAL RESET



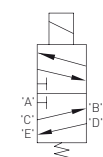
Weight:
5.5 kg

Ordering information:

Quote: Y125LA1H1DS



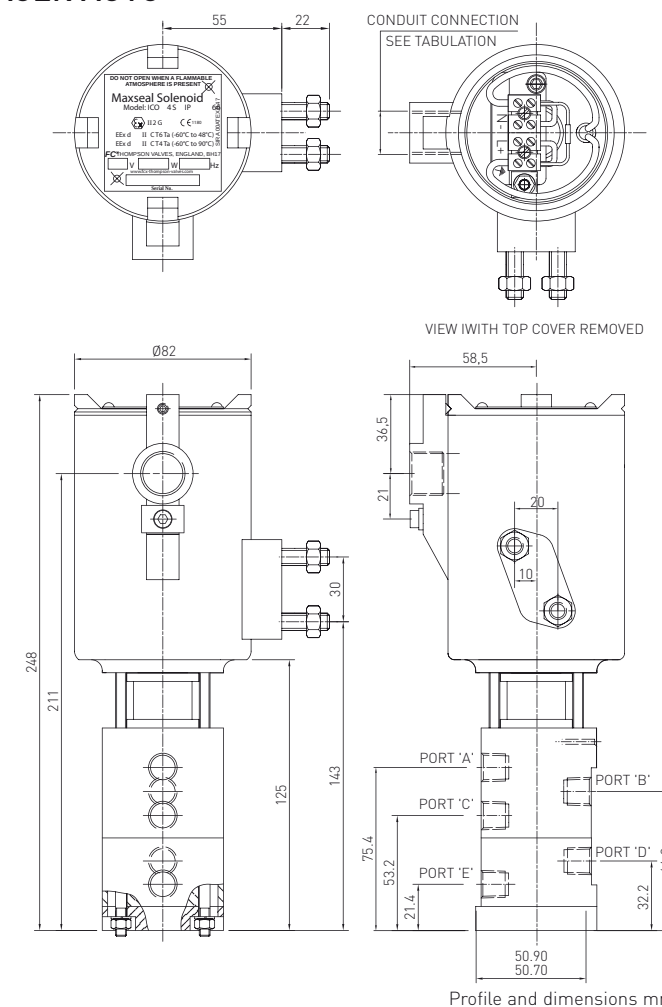
IC04S 1/4" 5/2 20 BAR (290 PSI) HIGH TEMP SPACER AUTO



Weight:
6 kg

Ordering information:

Quote: Y125AA1H2BS002



Profile and dimensions mm

IC04S 3/8" 3/2 20 BAR (290 PSI)

3/2 universal

Certification EExd IIC
T6 (Tamb = -60°C to
+48°C [-76°F to +118°F])
or EExd IIC T4 (Tamb =
-60°C to +90°C [-76°F
to +194°F]).
Complies with
EN 50014:1997
(amendments 1 & 2)
and EN 50018:1994.

Atex certification SIRA
00ATEX1147, complies
with ATEX directive
94/9/EC

IECEx certification IECEx
BAS 04.0019, complies
with IEC 60079-0:2000 &
IEC 60079-1:2001

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

Protection IP66/X8,
NEMA 4X

Technical data

Max. inlet pressure:
0-20 bar (0-290 psi)

Port size:
3/8"

Process connections:
NPT

Conduit / Signal Conns:
M20 x 1.5mm ISO (F)

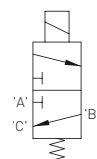
Media:
Customer to specify and
confirm compatibility



Electrical information

Voltage (nominal)	24V DC	Pull-in Voltage	>= 87.5% of nominal
Response Times (Typ)	Pull-in < 150 MS Drop Out < 80 MS	Drop-Out Voltage	10 - 20% of nominal
Voltage Protection	Surge suppression diodes fitted as STD	Coil Encapsulation	Class H
Leak Performance	Bubble tight	Coil Duty Cycle	100%

IC04S 3/8" 3/2 20 BAR (290 PSI) AUTO



Flow rates:

$C_v = 1.7$ USgpm for 1
psi Δp
 $K_v = 24.5$ l/min for 1 bar
(15 psi) Δp

Temperature ratings:

Media (min/max):
-20°C/90°C (-4°F/194°F)
Ambient: must be
used within 'T' class
temperature ranges
shown

Coil Rating:
38 ohms

Power Consumption:
15.1 watts

Weight:
5.5 kg

Operation:
Automatic

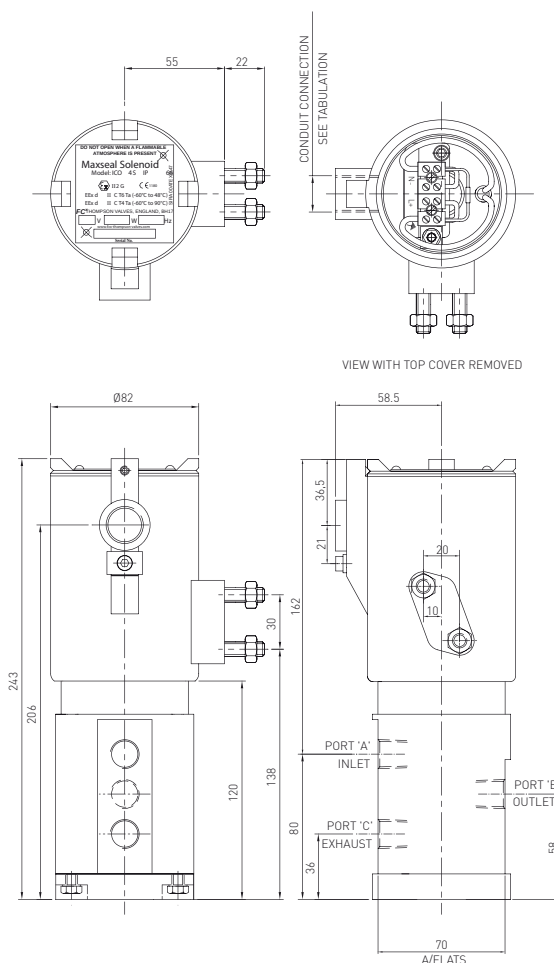
Materials:

Valve body & trim - 316L
stainless steel
O-Rings seats & seals
- viton
Paint finish - stainless
steel coil housing -
unpainted

Ordering information:

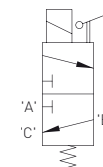
Quote: Y123AA2V1BS

Options: None



Profile and dimensions mm

IC04S 3/8" 3/2 20 BAR (290 PSI) AUTO LATCHING LEVER



Temperature ratings:

Media (min/max):
0°C/60°C (32°F/140°F)
Ambient: must be
used within 'T' class
temperature ranges
shown

Coil Rating:
38 ohms

Power Consumption:
15.1 watts

Weight:
7.5 kg

Operation:

Automatic latching lever

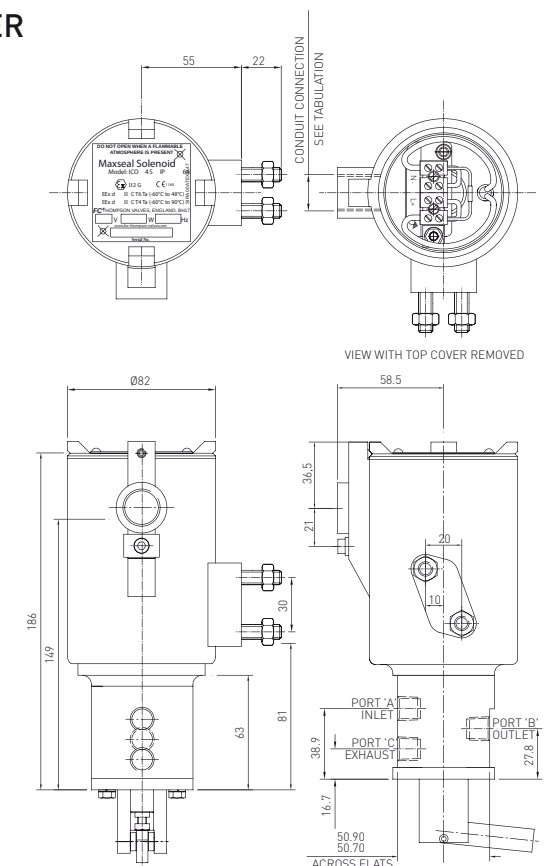
Materials:

Valve body & trim -
aluminium bronze
O-Rings seats & seals -
high nitrile
Paint finish - stainless
steel coil housing -
unpainted

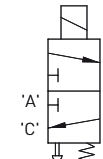
Ordering information:

Quote: Y123BA2H1BM

Options: None



IC04S 3/8" 3/2 20 BAR (290 PSI) PBMR



Flow rates:

$C_v = 1.6$ USgpm for 1
psi Δp
 $K_v = 24.5$ l/min for 1 bar
(15 psi) Δp

Temperature ratings:

Media (min/max):
-20°C/90°C (-4°F/194°F)
Ambient: must be
used within 'T' class
temperature ranges
shown

Coil Rating:
125 ohms

Power Consumption:
15.1 watts

Weight:
4.5 kg

Operation:

Push button manual
reset

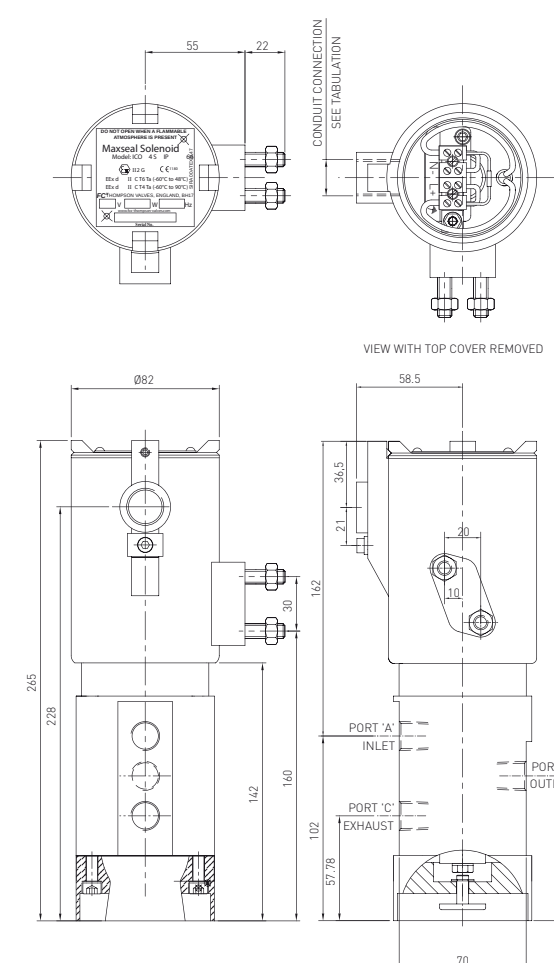
Materials:

Valve body & trim - 316L
stainless steel
O-Rings seats & seals -
high nitrile
Paint finish - stainless
steel coil housing -
unpainted

Ordering information:

Quote: Y123PA2H1BS

Options: None



Profile and dimensions mm

IC04S 2/2 AUTO

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

ATEX, CSA, GOST K & R, IECEx and NEMA 4X

Technical data

Maximum inlet pressure:
20 bar (290 psi)

Temperature ratings:
Media (min/max -60°C/90°C [-76°F/194°F]) Ambient (min/max 0°C/60°C [32°F/140°F])

Conduit connection:
M20 x 1.5 conduit thread,
1/2" NPT

Media:
Liquid & gases

Materials

Solenoid pot - stainless steel -
BFC 316

Top cover - stainless steel -
BFC 316

Valve body & trim materials -
316 stainless steel - 316L
stainless steel to the valve
body and trim materials

O-rings seats & seals -high
nitrile (NBR)

Coil insulation - class H



Option selector

Model IC04S	Substitute Y1	Body / trim materials 316 SS / 316 SS 316L SS / 316L SS	Substitute S T
Operating pressure 0-20 bar 0-50 bar 0-207 bar 0-414 bar	Substitute 2 3 6 9	Voltage 18 / 33V DC 24V DC 50V DC 110V DC 125V DC 25V AC 110V AC 240V AC 115V DC	Substitute A B C D E G J M R
Port config. 2/2 ENG/OPEN 2/2 ENG/CLOSE	Substitute 1 2	Conduit connection M20 x 1.5 1/2" NPT	Substitute 1 2
Operation Automatic	Substitute A	Seat / seal materials High nitrile FKM FLUROSILICONE	Substitute H V F
Process conn. 1/4" NPT 1/4" BSPP 1/2" NPT 1/2" BSPP	Substitute A1 E1 A3 E3		

Y1/2/★/A/★/★/★/★/★

IC04S 1/4" 2/2 AUTO

Flow rates:
 $C_v = 0.8$ USgpm for 1 psi Δp
 $K_v = 11.5$ l/min for 1 bar (15 psi) Δp

Valve size:
1/4" balanced poppet valve

Process connections:
1/4" NPT, 1/2" BSP

Weight:
5 kg

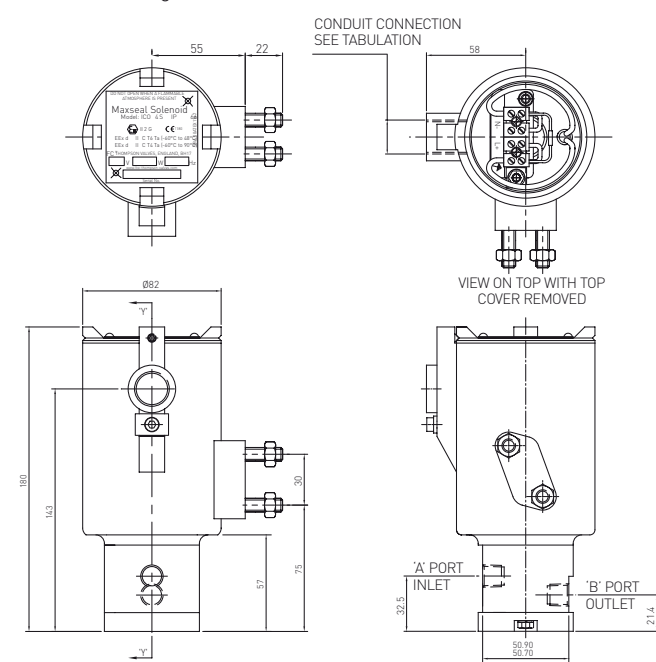
IC04S 1/2" 2/2 AUTO

Flow rates:
 $C_v = 4.2$ USgpm for 1 psi Δp
 $K_v = 46$ l/min for 1 bar (15 psi) Δp

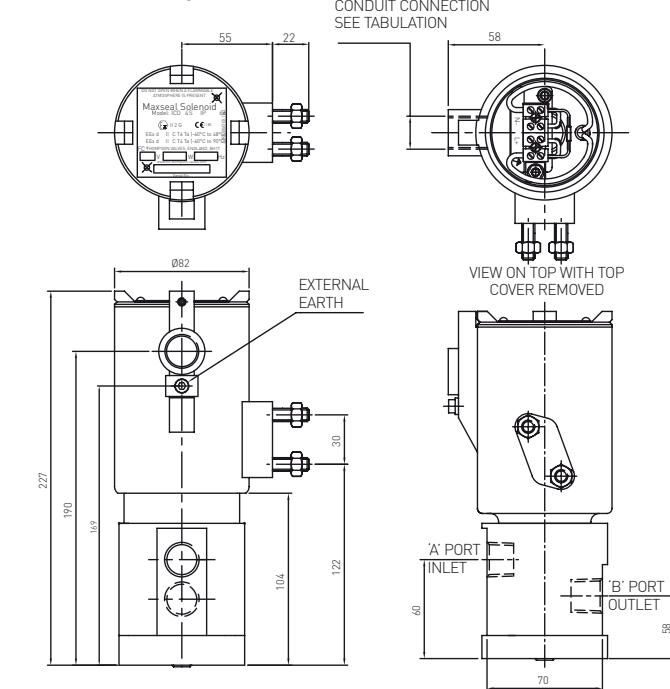
Valve size:
1/2" balanced poppet valve

Process connections:
1/2" NPT, 1/2" BSP

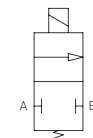
Weight:
6 kg



Profile and dimensions mm



IC04S 1/2" 2/2 20 BAR (290 PSI) IN AUTO PROXIMITY SWITCH



2/2 energise to open
(normally closed)

Max. inlet pressure:
0-20 bar (0-290 psi)

Flow rates:
 $C_v = 4.2$ USgpm for 1
psi Δp
 $K_v = 60.9$ l/min for 1 bar
(15 psi) Δp

Port size:
1/2"

Coil Rating:
38 ohms

Power Consumption:
15.1 watts

Process connections:
NPT

Weight:
8.5 kg

Operation:
Automatic

Materials:

Valve body & trim - 316L
stainless steel

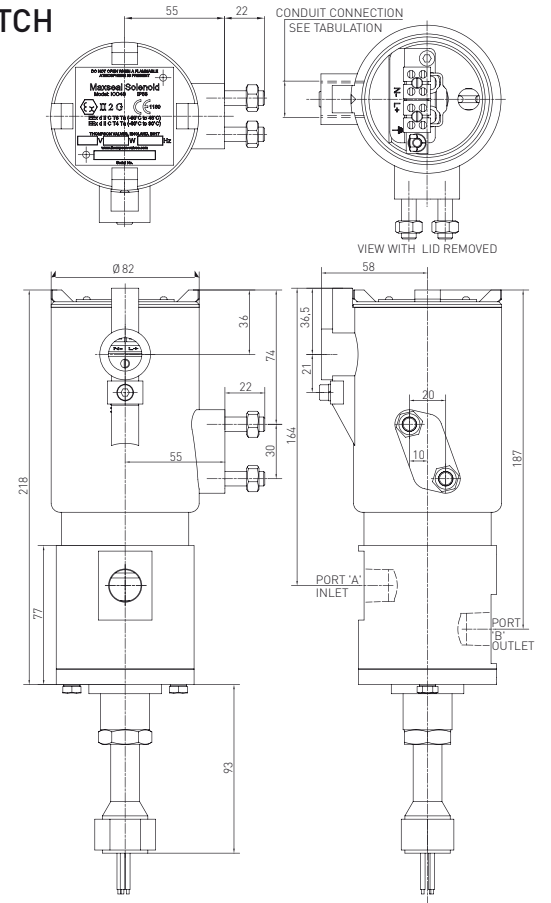
O-Rings seats & seals -
high nitrile

Paint finish - stainless
steel coil housing -
unpainted

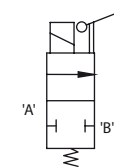
Ordering information:

Quote: Y121AA3H1BS077

Options: Position switch
topwrox go switch
model 73



IC04S 1/2" 2/2 20 BAR (290 PSI) AUTO LATCHING LEVER



2/2 energise to open
(normally closed)

Max. inlet pressure:
0-20 bar (0-290 psi)

Flow rates:
 $C_v = 4.2$ USgpm for 1
psi Δp
 $K_v = 60.9$ l/min for 1 bar
(15 psi) Δp

Port size:
1/2"

Coil Rating:
38 ohms

Power Consumption:
15.1 watts

Process connections:
NPT

Weight:
7 kg

Operation:

Automatic latching lever

Materials:

Valve body & trim - 316L
stainless steel

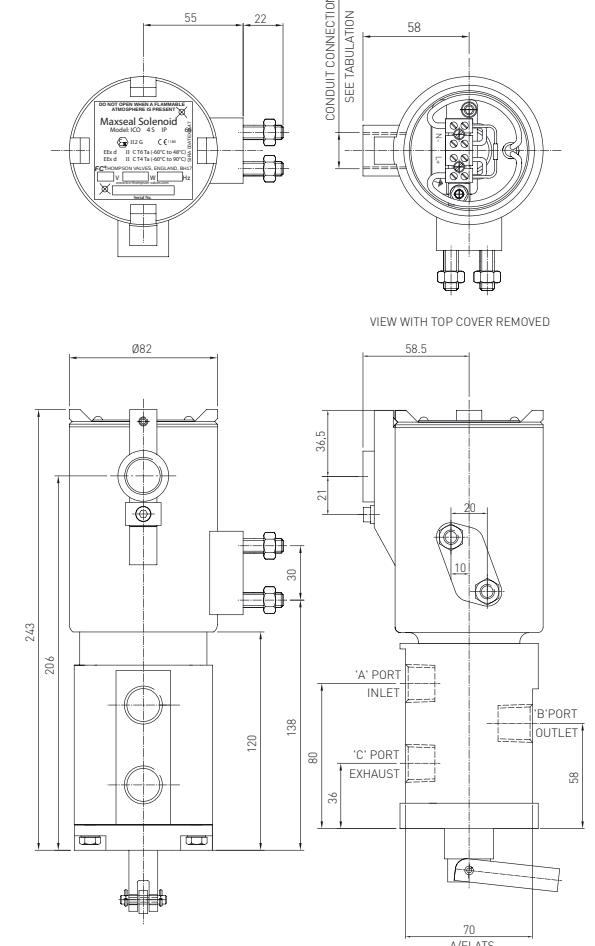
O-Rings seats & seals -
high nitrile

Paint finish - stainless
steel coil housing -
unpainted

Ordering information:

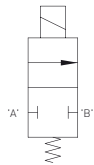
Quote: Y121BA3H1BS

Options: None



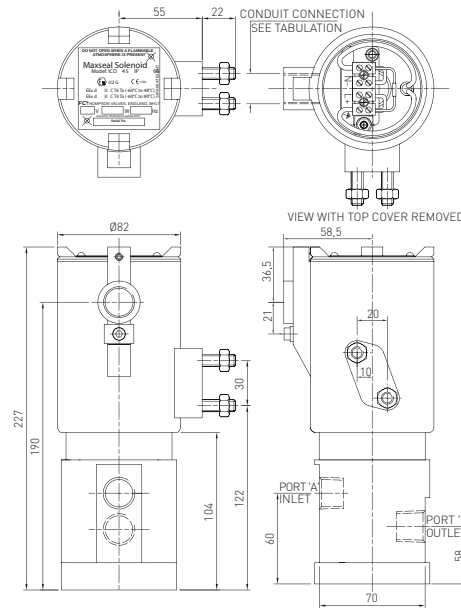
Profile and dimensions mm

IC04S 1/2" 2/2 50 BAR AUTO

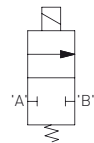


2/2 energise to open (normally closed)
Max. inlet pressure:
 0-50 bar (0-725 psi)
Flow rates:
 $C_v = 3.2$ USgpm for 1 psi Δp
 $K_v = 50$ l/min for 1 bar (15 psi) Δp
Port size:
 1/2"
Coil Rating:
 38 ohms
Power Consumption:
 15.1 watts
Process connections:
 NPT

Weight:
 8.5 kg
Operation:
 Automatic
Materials:
 Valve body & trim - 316L stainless steel
 O-Rings seats & seals - high nitrile
 Paint finish - stainless steel coil housing - unpainted
Ordering information:
 Quote: Y131AA3H1BS
 Options: None

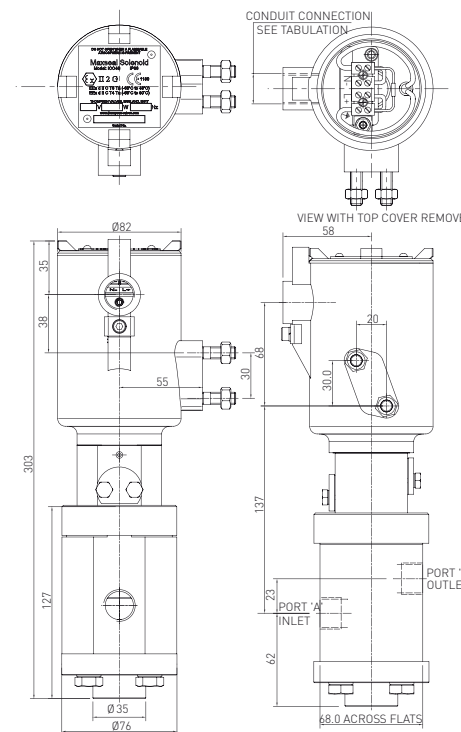


IC04S 1/2" 2/2 414 BAR (6005 PSI) AUTO

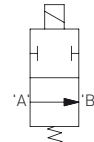


2/2 energise to open (normally closed)
Max. inlet pressure:
 0-414 bar (0-6005 psi)
Flow rates:
 $C_v = 4.2$ USgpm for 1 psi Δp
 $K_v = 60.5$ l/min for 1 bar (15 psi) Δp
Port size:
 1/2"
Coil Rating:
 38 ohms
Power Consumption:
 15.1 watts
Process connections:
 NPT
Weight:
 9 kg

Operation:
 Automatic
Materials:
 Valve body & trim - 316L stainless steel
 O-Rings seats - nylon
 O-Rings seals - high nitrile
 Paint finish - stainless steel coil housing - unpainted
Ordering information:
 Quote: Y191AA3J1BS
 Options: None

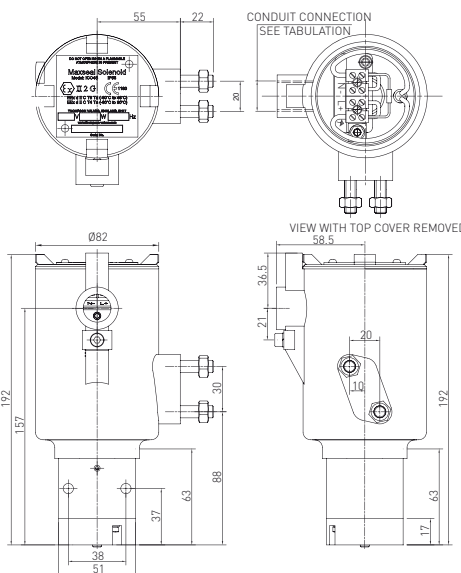


IC04S MANIFOLD MOUNT 2/2 AUTO 207 BAR (3002 PSI)



2/2 energise to close (normally open)
Max. inlet pressure:
 0-207 bar (0-3002 psi)
Flow rates:
 $C_v = 0.28$ USgpm for 1 psi Δp
 $K_v = 4$ l/min for 1 bar (15 psi) Δp
Port size:
 5mm drilled ports
Coil Rating:
 60 ohms
Power Consumption:
 9.6 watts
Process connections:
 5mm drilled ports

Weight:
 5.5 kg
Operation:
 Automatic
Materials:
 Valve body & trim - 316L stainless steel
 O-Rings seats - nylon
 O-Rings seals - high nitrile
 Paint finish - stainless steel coil housing - unpainted
Ordering information:
 Quote: Y162AKFJ1BS
 Options: Manifold mount



Profile and dimensions mm

IC04S 1/2" 3/2

Direct acting solenoid valve
Low pressure, high flow
Reliable and long life, ideal for a one time installation
Control of pneumatic or hydraulic operated equipment
ATEX, CSA, GOST K & R, IECEX and NEMA 4X

Technical data

Maximum inlet pressure:
 20 bar (290 psi)
Temperature ratings:
 Media (min/max -20°C/90°C (-4°F/194°F) Ambient (min/max 0°C/60°C (32°F/140°F)
Process connections:
 1/2" NPT, 1/2" BSP
Conduit connection:
 M20 x 1.5 conduit thread, 1/2" NPT
Media:
 Liquid & gases
Weight:
 7.5 kg

Materials

Solenoid pot - stainless steel - BFC 316
 Top cover - stainless steel - BFC 316
 Valve body & trim materials - 316 stainless steel - 316L stainless steel to the valve body and trim materials
 O-rings seats & seals -high nitrile (NBR)
 Coil insulation - class H

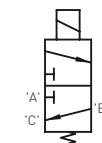
Option selector

Model	Substitute
IC04S	Y1
Operating pressure	Substitute
0-20 bar	2
Port config.	Substitute
3/2 UNIVERSAL	3
Operation	Substitute
Automatic	A
Automatic latching lever	B
Lever manual override	M
Push button manual reset	P
Jack screw manual override	S
Process conn.	Substitute
1/2" NPT	A3
1/2" BSPP	E3
Seat / seal materials	Substitute
High nitrile	H
Viton®	V

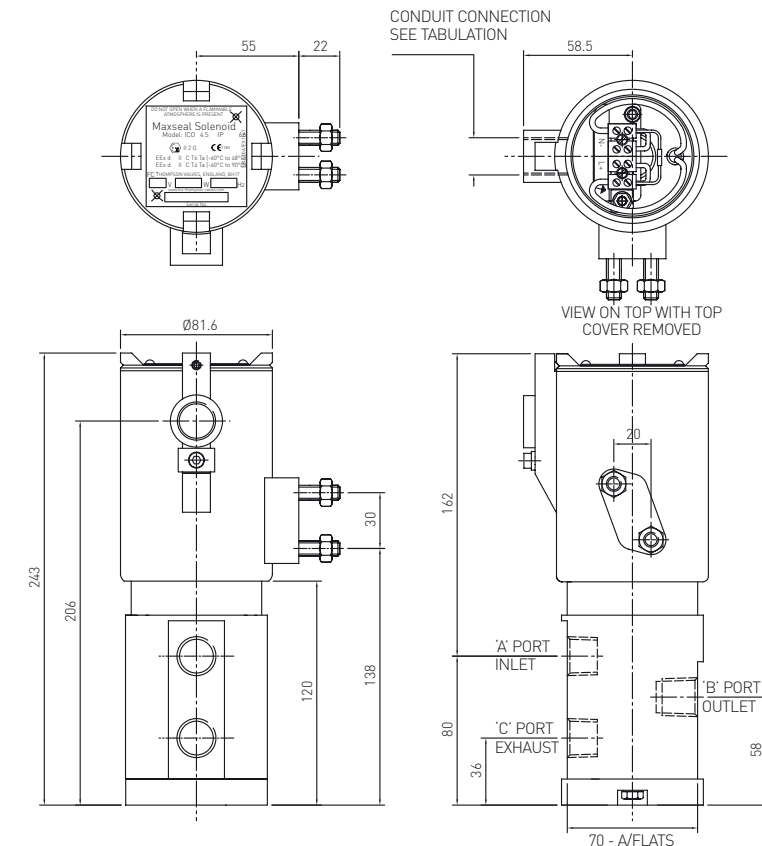
Y1/2/3/★/★★/★/★/★/★	Substitute
Body / trim materials	Substitute
316 SS / 316 SS	S
316L SS / 316L SS	T
Voltage	Substitute
18 / 33V DC	A
24V DC	B
50V DC	C
110V DC	D
125V DC	E
25V AC	G
110V AC	J
240V AC	M
Conduit connection	Substitute
M20 x 1.5	1
1/2" NPT	2



IC04S 1/2" 3/2 AUTO

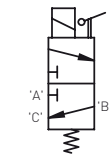


Flow rates:
 $C_v = 4.2$ USgpm for 1 psi Δp
 $K_v = 46$ l/min for 1 bar (15 psi) Δp



Profile and dimensions mm

IC04S 1/2" 3/2 A-L-L

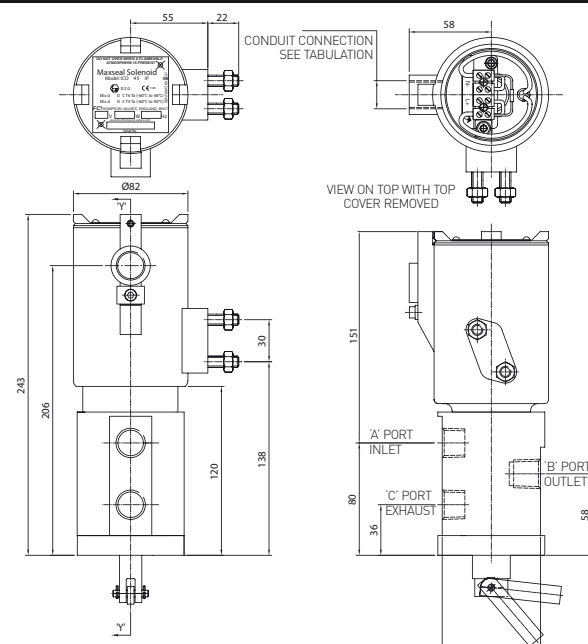


Flow rates:

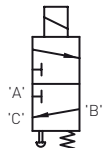
$C_v = 4.2$ USgpm for 1 psi Δp
 $K_v = 46$ l/min for 1 bar (15 psi) Δp

Valve size:

1/2" balanced poppet valve



IC04S 1/2" 3/2 PBMR

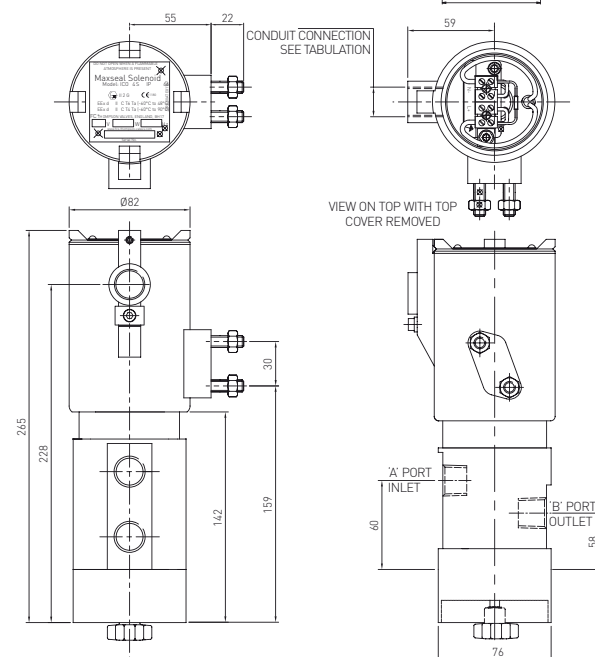


Flow rates:

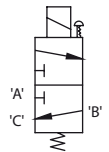
$C_v = 4.2$ USgpm for 1 psi Δp
 $K_v = 46$ l/min for 1 bar (15 psi) Δp

Valve size:

1/2" balanced poppet valve



IC04S 1/2" 3/2 JSM0

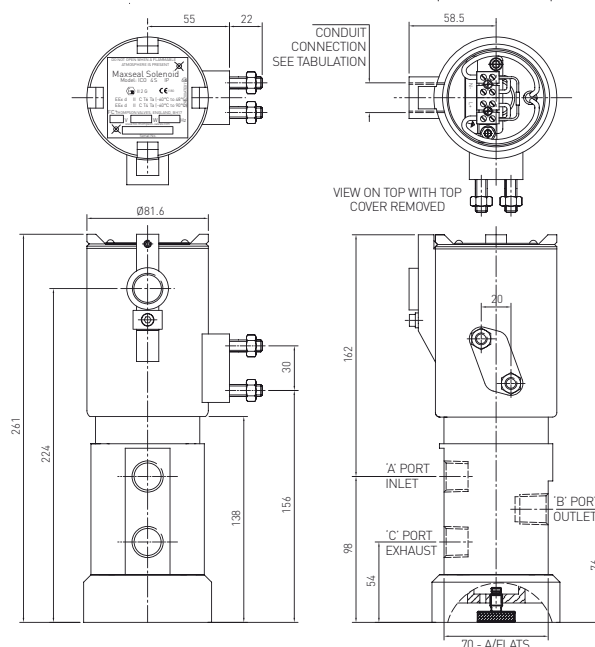


Flow rates:

$C_v = 4.2$ USgpm for 1 psi Δp
 $K_v = 46$ l/min for 1 bar (15 psi) Δp

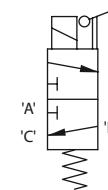
Valve size:

1/2" balanced poppet valve



Profile and dimensions mm

IC04S 1/2" 3/2 20 BAR (290 PSI) LMO



3/2 universal

Certification EExd IIC
T6 (Tamb = -60°C to
+48°C [-76°F to +118°F])
or EExd IIC T4 (Tamb =
-60°C to +90°C [-76°F
to +194°F]).

Complies with
EN 50014:1997
(amendments 1 & 2)
and EN 50018:1994.

Atex certification SIRA
00ATEX1147, complies
with ATEX directive
94/9/EC

IECEX certification IECEX
BAS 04.0019, complies
with IEC 60079-0:2000 &
IEC 60079-1:2001

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

Protection IP66/X8,
NEMA 4X

Technical data

Max. inlet pressure:
0-20 bar (0-290 psi)

Flow rates:

$C_v = 4.2$ USgpm for 1
psi Δp
 $K_v = 60.9$ l/min for 1 bar
(15 psi) Δp

Temperature ratings:

Media (min/max):
-20°C/90°C [-4°F/194°F]
Ambient: must be
used within 'T' class
temperature ranges
shown

Port size:
1/2"

Process connections:
NPT

Conduit / Signal Conns:
M20 x 1.5mm ISO (F)

Media:
Customer to specify and
confirm compatibility

Weight:
8.5 kg

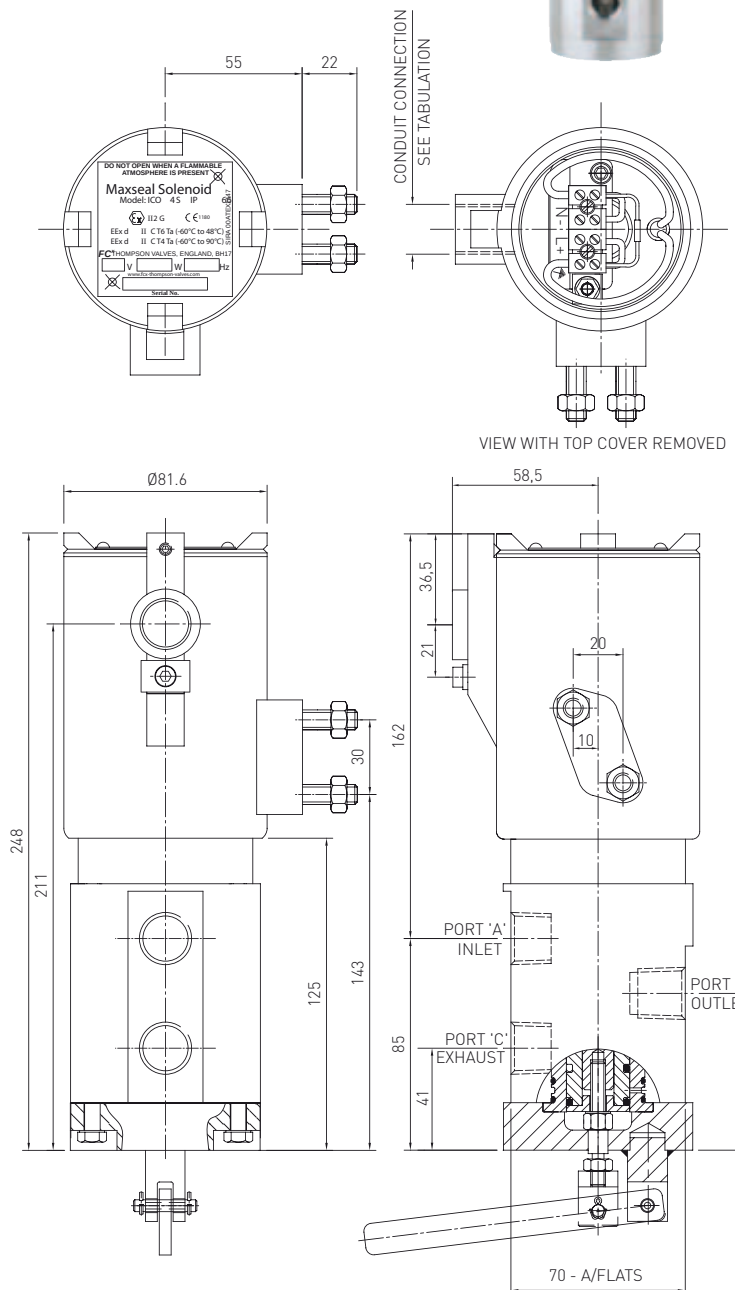
Materials

Valve body & trim - 316L
stainless steel
O-Rings seats & seals -
high nitrile
Paint finish - stainless
steel coil housing -
unpainted

Ordering information

Quote: Y123MA3H1BS

Options: None



Electrical information

Voltage (nominal)	24V DC	Pull-in Voltage	>= 87.5% of nominal
Response Times (Typ)	Pull-in < 150 MS	Drop-Out Voltage	10 - 20% of nominal
Coil Rating	38 ohms	Power Consumption	15.1 watts
Voltage Protection	Surge suppression diodes fitted as STD	Coil Encapsulation	Class H
Leak Performance	Bubble tight	Coil Duty Cycle	100%

Profile and dimensions mm

IC04S MANIFOLD MOUNT 3/2 207 BAR (3002 PSI)

3/2 3-port / 2-way not suitable for universal opn

Certification EExd IIC T6 (Tamb = -60°C to +48°C [-76°F to +118°F]) or EExd IIC T4 (Tamb = -60°C to +90°C [-76°F to +194°F]).
Complies with EN 50014:1997 (amendments 1 & 2) and EN 50018:1994.

Atex certification SIRA 00ATEX1147, complies with ATEX directive 94/9/EC

IECEx certification IECEx BAS 04.0019, complies with IEC 60079-0:2000 & IEC 60079-1:2001

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

Protection IP66/X8, NEMA 4X

Technical data

Max. inlet pressure: 0-207 bar (0-3002 psi)

Flow rates:
C_v = 0.28 USgpm for 1 psi Δp
K_v = 4 l/min for 1 bar (15 psi) Δp

Temperature ratings:
Media (min/max): -20°C/90°C (-4°F/194°F)
Ambient: must be used within 'T' class temperature ranges shown

Process connections: 5mm drilled ports

Conduit / Signal Conns: M20 x 1.5mm ISO (F)

Media: Customer to specify and confirm compatibility

Weight: 5 kg

Materials

Valve body & trim - 316L stainless steel

O-Rings seats - nylon

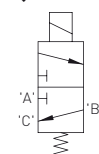
O-Rings seals - high nitrile

Paint finish - stainless steel coil housing - unpainted

Electrical information

Voltage (nominal)	24V DC	Pull-in Voltage	>= 87.5% of nominal
Response Times (Typ)	Pull-in < 150 MS Drop Out < 80 MS	Drop-Out Voltage	10 - 20% of nominal
Coil Rating	60 ohms	Power Consumption	9.6 watts
Voltage Protection	Surge suppression diodes fitted as STD	Coil Encapsulation	Class H
Leak Performance	Bubble tight	Coil Duty Cycle	100%

IC04S MANIFOLD MOUNT 3/2 AUTO 207 BAR (3002 PSI)



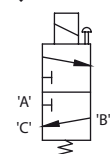
Port size: 5 mm drilled ports

Operation: Automatic

Ordering information: Quote: Y163AKFJ1BS

Options: Manifold mount

IC04S MANIFOLD MOUNT 3/2 PBM0 207 BAR (3002 PSI)

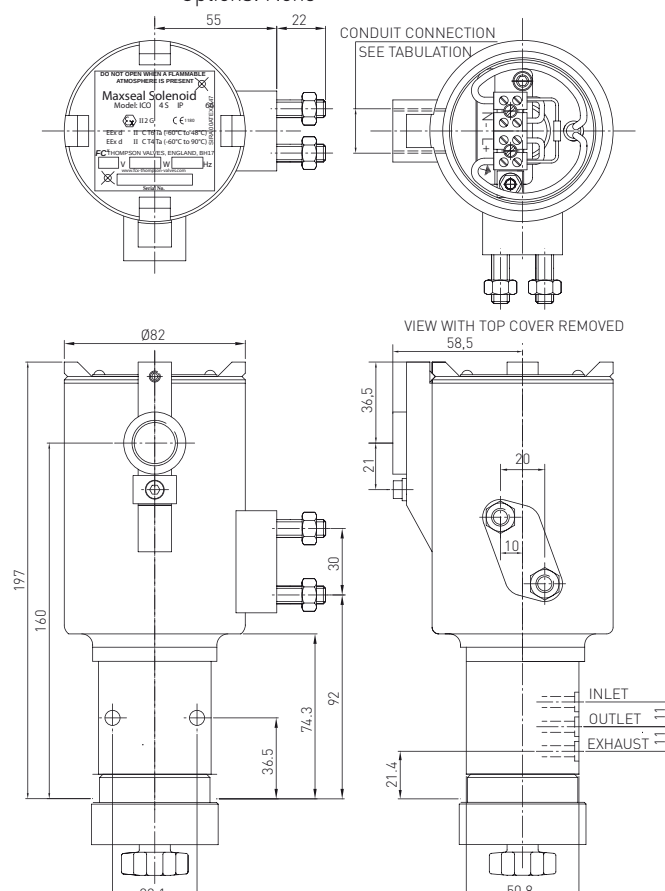
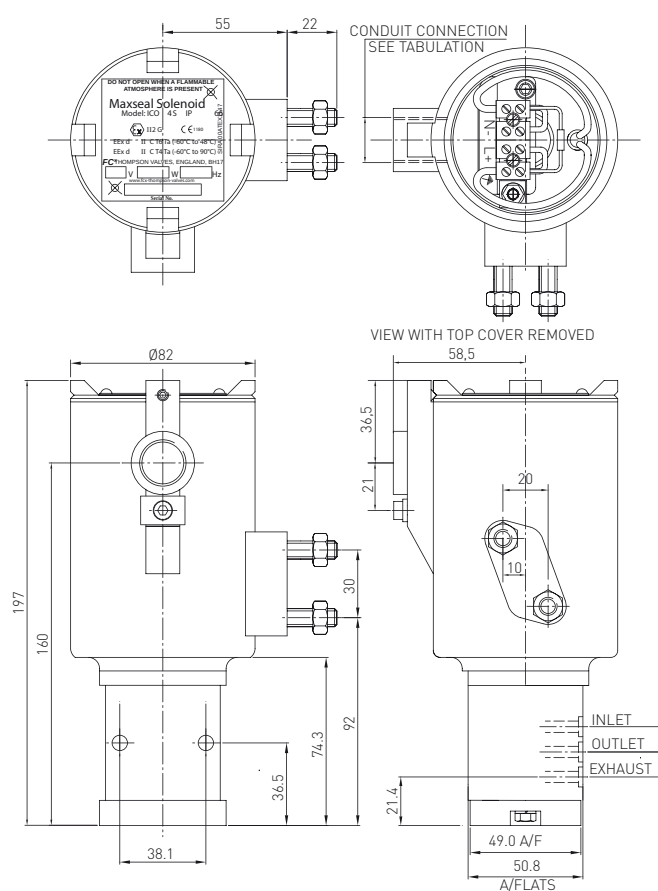


Port size: 1/4"

Operation: Push button manual override

Ordering information: Quote: Y163CKFJ1BS

Options: None



Profile and dimensions mm

IC04S MANIFOLD MOUNT 414 BAR (6005 PSI)

Certification EExd IIC T6 (Tamb = -60°C to +48°C [-76°F to +118°F]) or EExd IIC T4 (Tamb = -60°C to +90°C [-76°F to +194°F]).
Complies with EN 50014:1997 (amendments 1 & 2) and EN 50018:1994.
Atex certification SIRA 00ATEX1147, complies with ATEX directive 94/9/EC
IECEx certification IECEx BAS 04.0019, complies with IEC 60079-0:2000 & IEC 60079-1:2001
SIL 3 or SIL 4 (SIL 4 in a redundant configuration only)

Protection IP66/X8, NEMA 4X

Technical data

Max. inlet pressure: 0-414 bar (0-6005 psi)

Flow rates:
C_v = 0.28 USgpm for 1 psi Δp
K_v = 4 l/min for 1 bar (15 psi) Δp

Temperature ratings:
Media (min/max): -20°C/90°C (-4°F/194°F)
Ambient: must be used within 'T' class temperature ranges shown

Process connections: 5 mm drilled ports

Conduit / Signal Conns: M20 x 1.5mm ISO (F)

Media: Customer to specify and confirm compatibility

Weight: 5.5 kg

Materials

Valve body & trim - 316L stainless steel

O-Rings seats - nylon

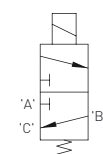
O-Rings seals - high nitrile

Paint finish - stainless steel coil housing - unpainted

Electrical information

Voltage (nominal)	24V DC	Pull-in Voltage	>= 87.5% of nominal
Response Times (Typ)	Pull-in < 150 MS Drop Out < 80 MS	Drop-Out Voltage	10 - 20% of nominal
Voltage Protection	Surge suppression diodes fitted as STD	Coil Encapsulation	Class H
Leak Performance	Bubble tight	Coil Duty Cycle	100%

IC04S MANIFOLD MOUNT 3/2 AUTO 414 BAR (6005 PSI)



3/2 norm (414B hyd / 300B gas (6004 psi hyd / 4351 psi gas)) 3/2 uni (300B hyd/150B gas (4351 psi hyd/2176 psi gas))

Port size: 1/4"

Coil Rating: 38 ohms

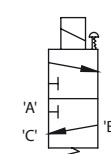
Power Consumption: 15.1 watts

Operation: Automatic

Ordering information: Quote: Y193AKFJ1BS

Options: Manifold mount

IC04S MANIFOLD MOUNT 3/2 JSM0 414 BAR (6005 PSI)



3/2 norm (414B hyd / 300B gas (6004 psi hyd / 4351 psi gas)) 3/2 uni (300B hyd/150B gas (4351 psi hyd/2176 psi gas))

Port size: 5 mm drilled ports

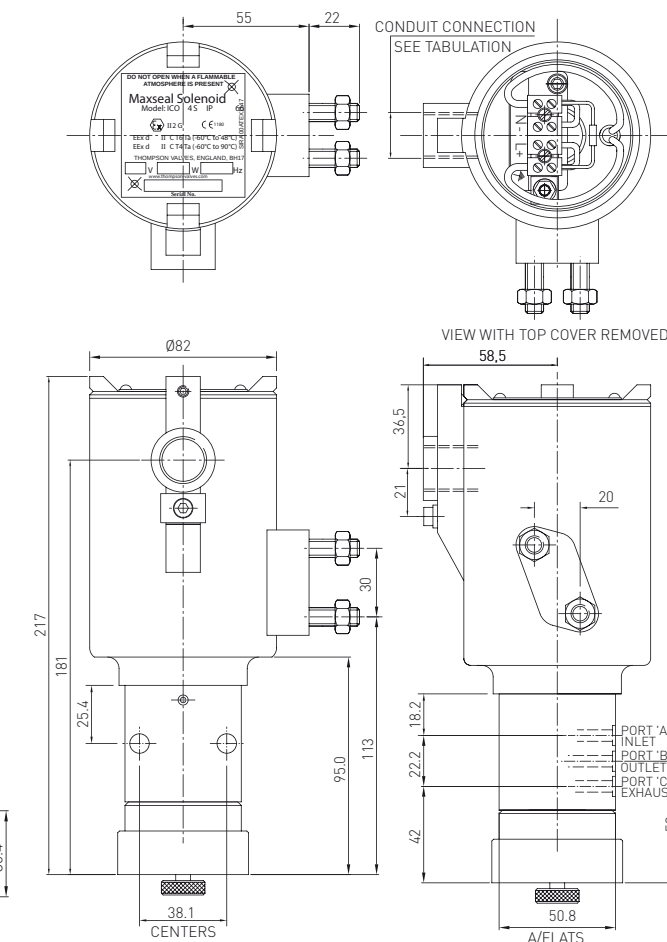
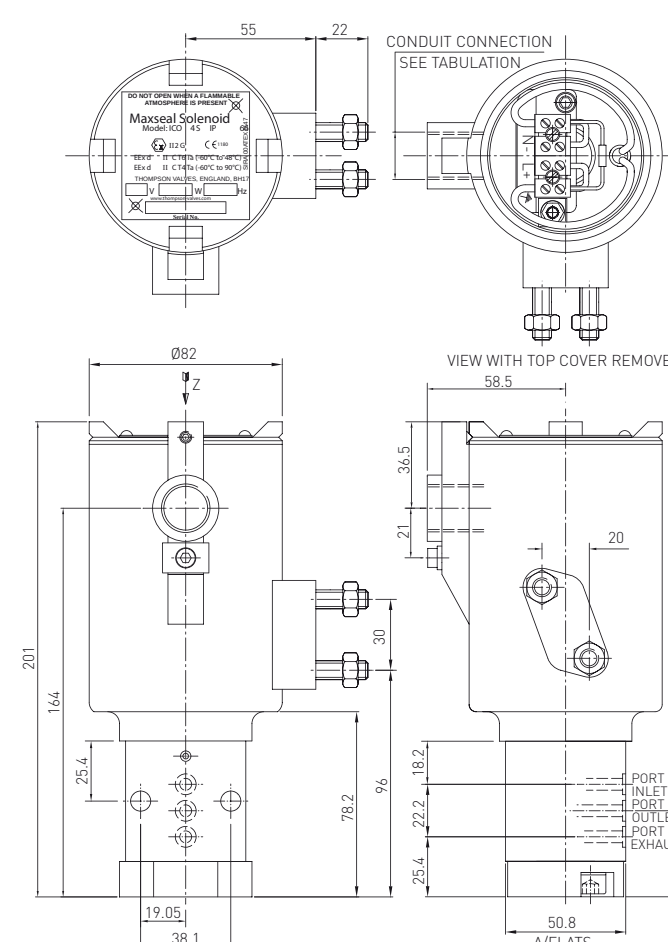
Coil Rating: 780 ohms

Power Consumption: 15.5 watts

Operation: Jackscrew manual override

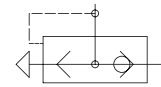
Ordering information: Quote: Y193SKFJ1DS

Options: Manifold mount



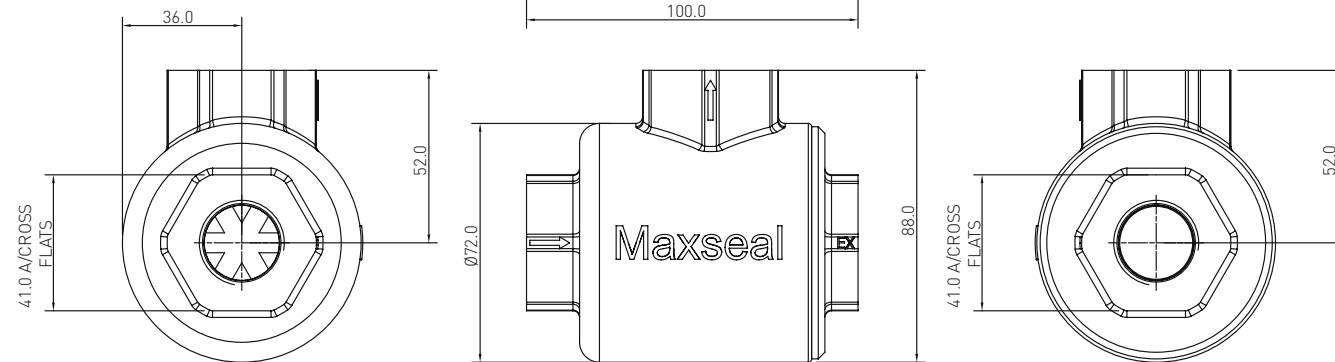
Profile and dimensions mm

QEV 3/4"

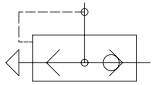


Flow rates:
 $C_v = 10.4/10.8$ USgpm
for 1 psi Δp
 $K_v = 149$ l/min for 1
bar (15 psi) Δp
Port size:
3/4"

Weight:
1.48 kg
Ordering information:
Quote: QEV13AA5H00S
Options: None

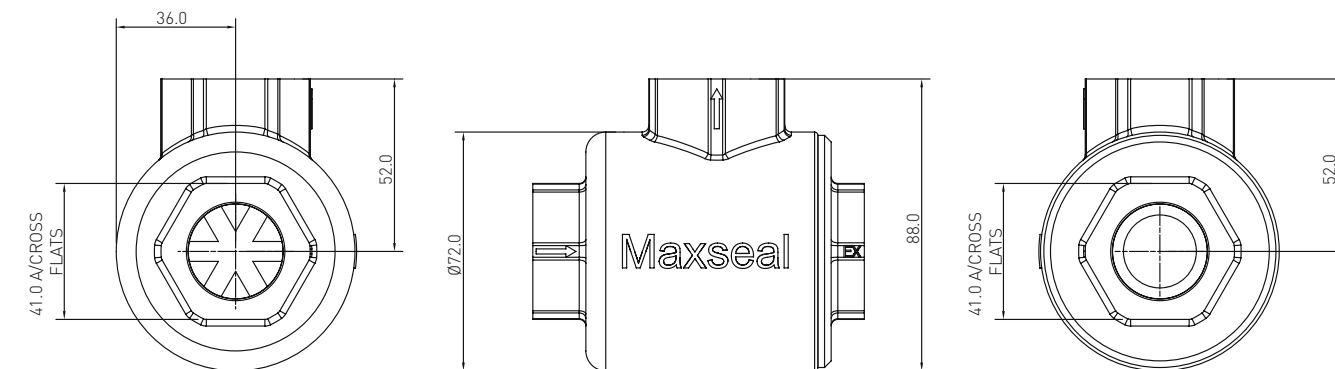


QEV 1"



Flow rates:
 $C_v = 10.4/15.4$ USgpm
for 1 psi Δp
 $K_v = 149/221$ l/min for
1 bar (15 psi) Δp
Port size:
1"

Weight:
1.48 kg
Ordering information:
Quote: QEV13AA6H00S
Options: None



Profile and dimensions mm

APV AUTO

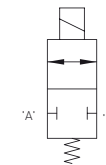
Certification: No "T"
class rating applicable
for air pilot valves (APV)
or Ambient temperature
identical to media
temperatures
Atex certification none,
not applicable

Technical data

Max. inlet pressure:
0-12 bar (0-174 psi)
Process connections:
NPT
Media:
Customer to specify and
confirm compatibility
Operation:
Automatic
Leak Performance:
Bubble tight



APV 1/4" 2/2 414 BAR (6005 PSI) AUTO



2/2 energise to open
(normally close) - 414B
hyd / 300B gas (6005 psi
hyd / 4351 psi gas)

Pilot Pressure:
3-12 bar (44-174 psi)

Flow rates:
 $C_v =$ TBA USgpm for 1
psi Δp
 $K_v =$ TBA l/min for 1 bar
(15 psi) Δp

Temperature ratings:
Media (min/
max): -10°C/80°C
(+14°F/176°F)
Ambient: must be
used within 'T' class
temperature ranges
shown

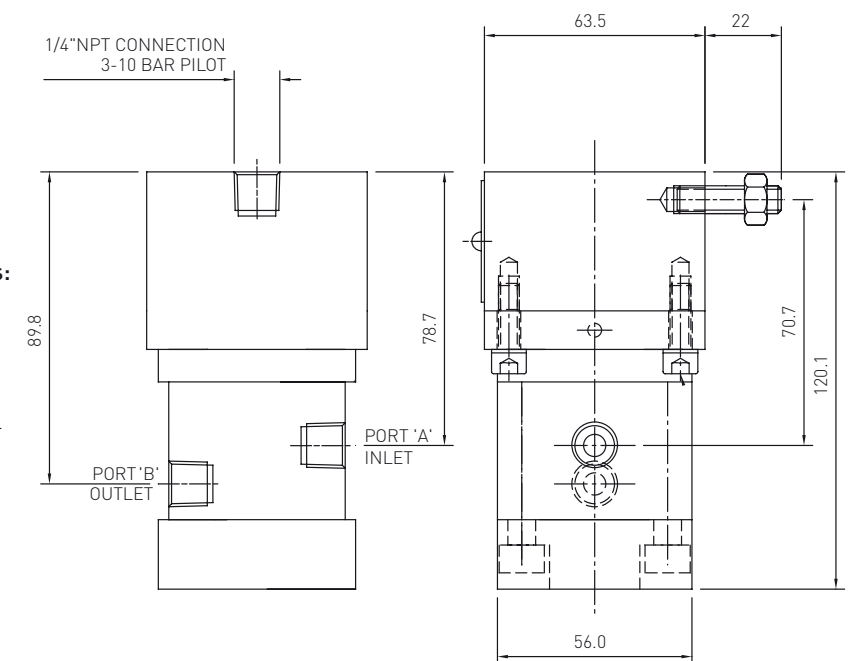
Port size:
1/4"

Conduit / Signal Conns:
1/4in NPT

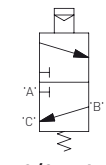
Weight:
TBA kg

Materials:
Valve body & trim - 316L
stainless steel
O-Rings seats - nylon
O-Rings seals - high
nitrile
Paint finish - stainless
steel construction -
unpainted

Ordering information:
Quote: APV91AA1J5XS



APV 1/4" 3/2 AUTO



3/2 universal
Pilot Pressure:
3-12 bar (44-174 psi)

Flow rates:
 $C_v = 0.6$ USgpm for 1
psi Δp
 $K_v = 8.7$ l/min for 1 bar
(15 psi) Δp

Temperature ratings:
Media (min/
max): -50°C/80°C
(-58°F/176°F)
Ambient: must be
used within 'T' class
temperature ranges
shown

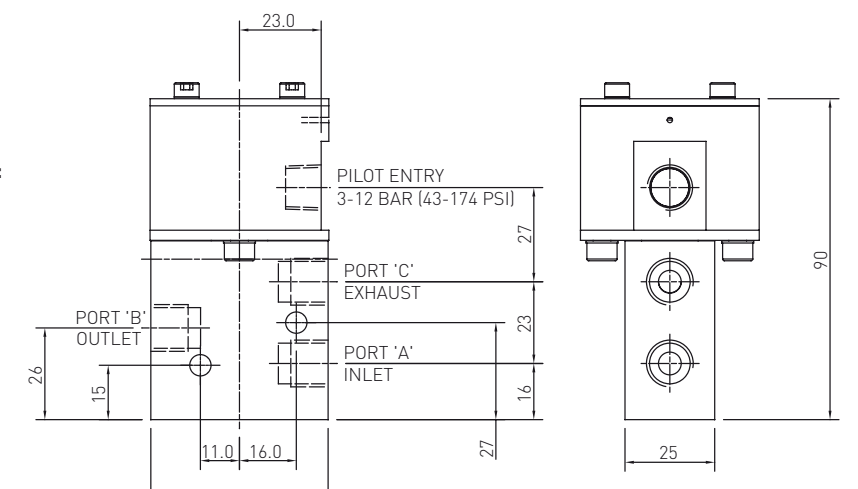
Conduit / Signal Conns:
None

Weight:
TBA kg

Materials:
Valve body & trim - 316L
stainless steel
O-Rings seats & seals -
nitrile
Paint finish - stainless
steel construction -
unpainted

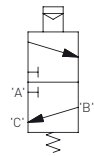
Ordering information:
Quote: APV13AA1H5XS

Port size:
1/4"



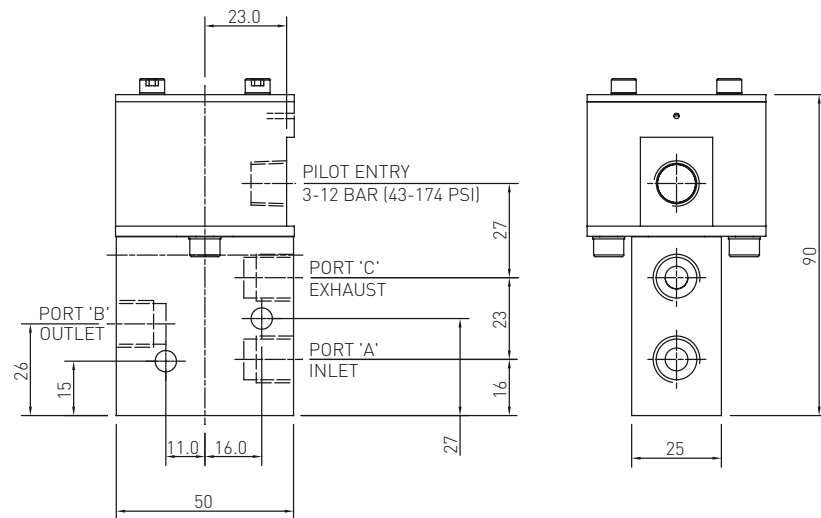
Profile and dimensions mm

APV 1/4" 3/2 50 BAR (725 PSI) AUTO

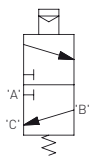


3/2 universal
Pilot Pressure:
 3-12 bar (44-174 psi)
Flow rates:
 $C_v = 0.6$ USgpm for 1 psi Δp
 $K_v = 8.7$ l/min for 1 bar (15 psi) Δp
Temperature ratings:
 Media (min/max):
 -20°C/80°C (-4°F/176°F)
 Ambient: must be used within 'T' class temperature ranges shown
Port size:
 1/4"
Conduit / Signal Conns:
 N/A

Weight:
 1.5 kg
Materials:
 Valve body & trim - 316L stainless steel
 O-Rings seats & seals - nitrile
 Paint finish - stainless steel construction - unpainted
Ordering information:
 Quote: APV33AA1H5XS

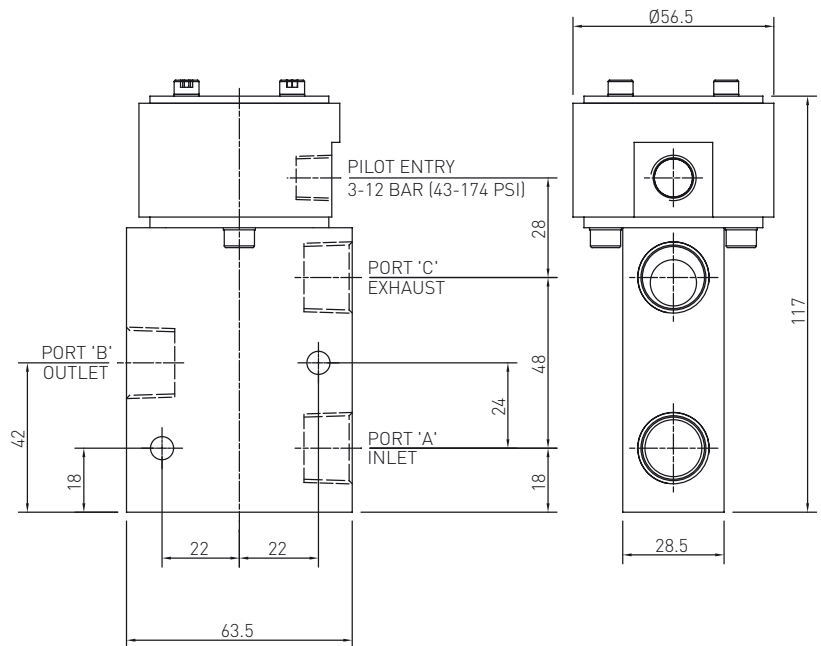


APV 1/2" 3/2 AUTO

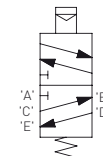


3/2 universal
Pilot Pressure:
 3-12 bar (44-174 psi)
Flow rates:
 $C_v = 2.1$ USgpm for 1 psi Δp
 $K_v = 30.2$ l/min for 1 bar (15 psi) Δp
Temperature ratings:
 Media (min/max):
 -20°C/80°C (-4°F/176°F)
 Ambient: must be used within 'T' class temperature ranges shown
Port size:
 1/2"
Conduit / Signal Conns:
 N/A

Weight:
 2 kg
Materials:
 Valve body & trim - 316L stainless steel
 O-Rings seats & seals - nitrile
 Paint finish - stainless steel construction - unpainted
Ordering information:
 Quote: APV13AA3H5XS

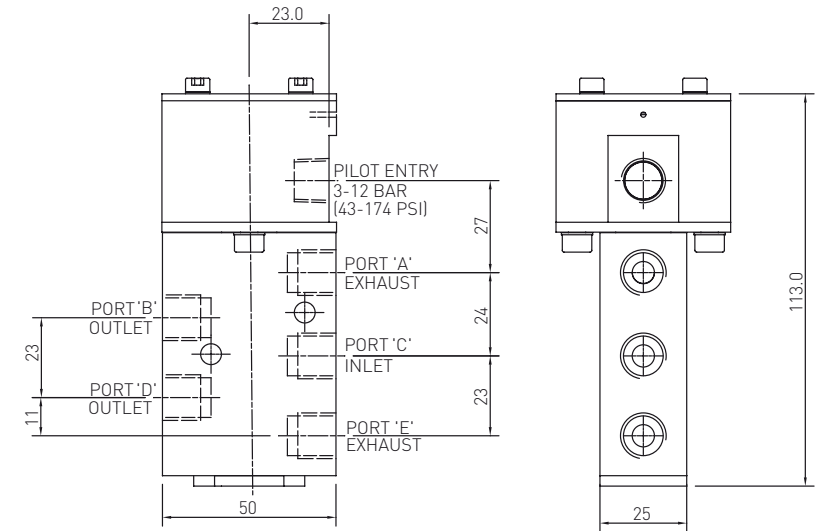


APV 1/4" 5/2 AUTO

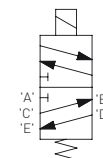


5/2 fixed port configuration
Pilot Pressure:
 3-12 bar (44-174 psi)
Flow rates:
 $C_v = 0.6$ USgpm for 1 psi Δp
 $K_v = 8.7$ l/min for 1 bar (15 psi) Δp
Temperature ratings:
 Media (min/max):
 -20°C/80°C (-4°F/176°F)
 Ambient: must be used within 'T' class temperature ranges shown
Port size:
 1/4"

Conduit / Signal Conns:
 N/A
Weight:
 3 kg
Materials:
 Valve body & trim - 316L stainless steel
 O-Rings seats & seals - nitrile
 Paint finish - stainless steel construction - unpainted
Ordering information:
 Quote: APV15AA1H5XS

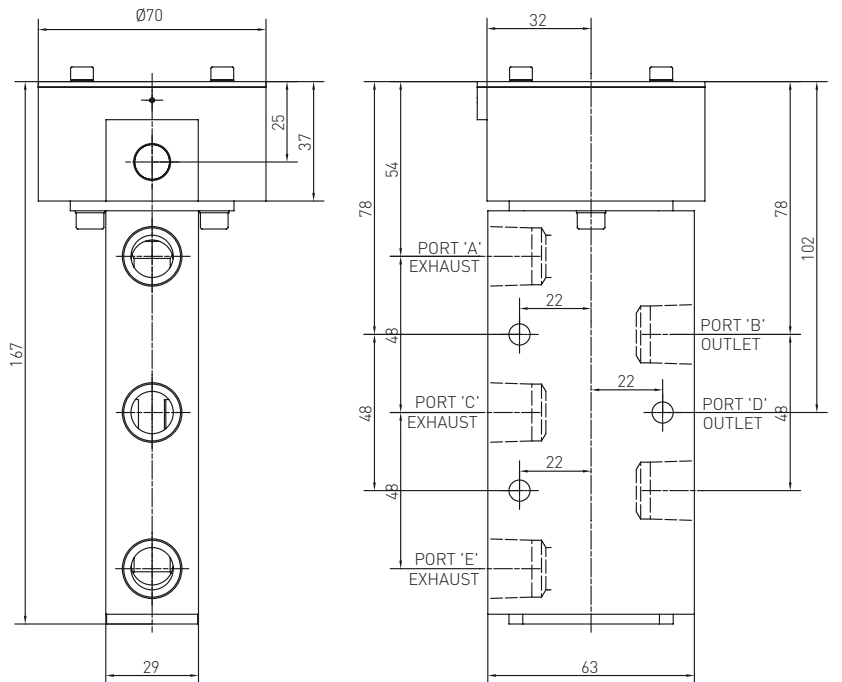


APV 1/2" 5/2 AUTO



3/2 universal
Pilot Pressure:
 3-12 bar (44-174 psi)
Flow rates:
 $C_v = 2.1$ USgpm for 1 psi Δp
 $K_v = 30.2$ l/min for 1 bar (15 psi) Δp
Temperature ratings:
 Media (min/max):
 -20°C/80°C (-4°F/176°F)
 Ambient: must be used within 'T' class temperature ranges shown
Port size:
 1/2"

Conduit / Signal Conns:
 1/4in NPT
Weight:
 3 kg
Materials:
 Valve body & trim - 316L stainless steel
 O-Rings seats & seals - nitrile
 Paint finish - stainless steel construction - unpainted
Ordering information:
 Quote: APV15AA3H5XS



SOV 2/2 20 VALVE

Certification EExd IIC
T6 (Tamb = - 40°C to + 40°C [-40°F to +104°F])
or EExd IIC T4 (Tamb = - 40°C to +90°C [-40°F to +194°F]). Complies with EN 50014: 1992 (amendments 1 & 2) and EN 50018: 1994.

Atex certification
BAS02ATEX2106X,
complies with ATEX
directive 94/9/EC

Safety integrity level
SIL 3 or SIL 4 (SIL 4 in a
redundant configuration
only)

Protection IP66/X8,
NEMA 4X

Technical data

Conduit / Signal Conns:
M20 x 1.5mm ISO (F)

Media:
Customer to specify and
confirm compatibility

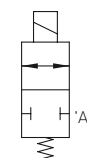
Operation:
Automatic

Electrical information

Response Times (Typ)	Pull-in	Please call	Drop Out	Please call	Pull-in Voltage	>= 87.5% of nominal
Voltage Protection	Surge suppression diodes fitted as STD				Drop-Out Voltage	10 - 20% of nominal
Leak Performance	Bubble tight				Coil Encapsulation	Class H
					Coil Duty Cycle	100%



SOV1 1/2" 2/2 FLANGED 19 BAR (276 PSI) AUTO



**2/2 energise to open
(normally closed)**

Max. inlet pressure:
0-19 bar (0-276 psi)

Flow rates:
 $C_v = 3.2$ USgpm for 1
psi Δp
 $K_v = 46$ l/min for 1 bar
(15 psi) Δp

Temperature ratings:
Media (min/max):
-20°C/90°C (-4°F/194°F)
Ambient: must be
used within 'T' class
temperature ranges
shown

Port size:
1/2"

Process connections:
BS1560 CL 150RF

Voltage (nominal):

24V DC

Coil Rating:

27 ohms

Power Consumption:

21.3 watts

Weight:

22 kg

Materials:

Valve body & trim - 316
stainless steel

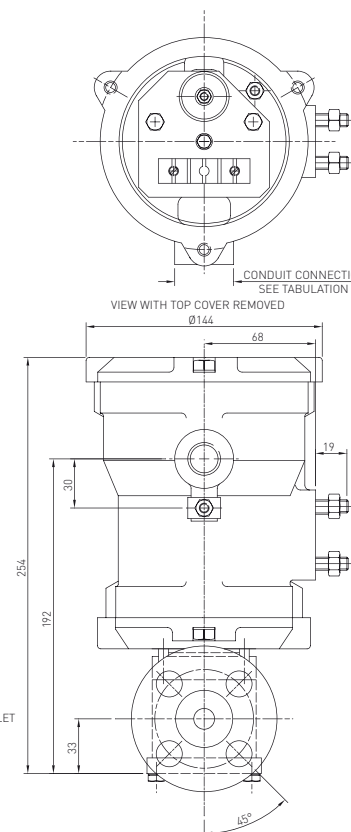
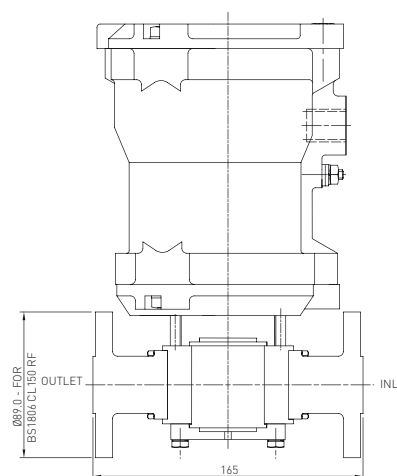
O-Rings seats & seals
- viton

Paint finish - epoxy
[G.240] 150 micron[min]-
light grey

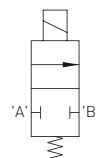
Ordering information:

Quote: S1F1SA1AV1BD

Options: None



SOV1 1/2" 2/2 20 BAR (290 PSI) AUTO



**2/2 energise to open
(normally closed)**

Max. inlet pressure:
0-20 bar (0-290 psi)

Flow rates:
 $C_v = 3.2$ USgpm for 1
psi Δp
 $K_v = 46$ l/min for 1 bar
(15 psi) Δp

Temperature ratings:
Media (min/
max): -20°C/120°C
(-4°F/248°F)
Ambient: must be
used within 'T' class
temperature ranges
shown

Port size:
1/2"

Process connections:
NPT

Voltage (nominal):
24V DC

Coil Rating:

27 ohms

Power Consumption:
21.3 watts

Weight:

18.5 kg

Materials:

Valve body & trim - 316L
stainless steel

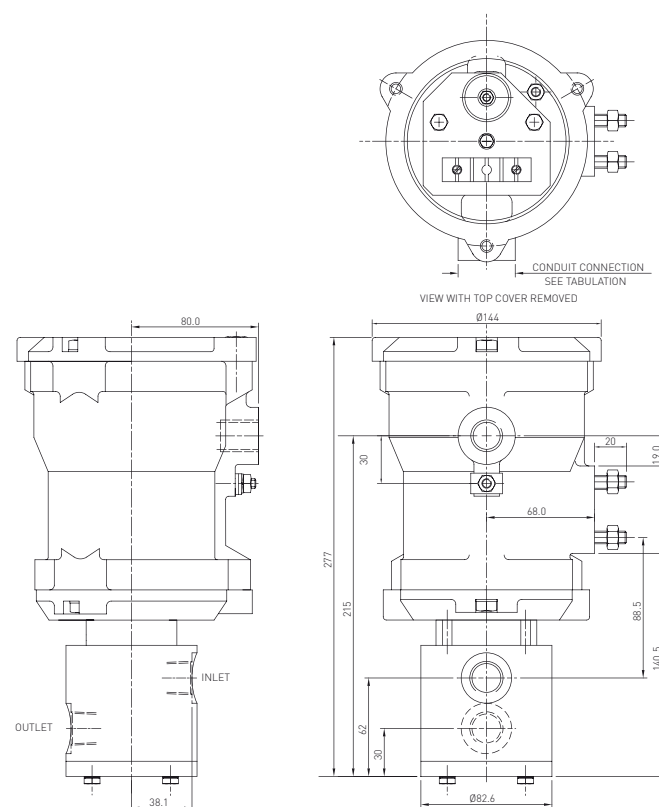
O-Rings seats & seals -
high nitrile

Paint finish - epoxy
[G.240] 150 micron[min]-
light grey

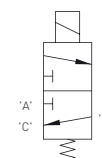
Ordering information:

Quote: S121SAA3H1BD

Options: None



SOV2 3/4" 2/2 20 BAR (290 PSI) AUTO



3/2 universal

Max. inlet pressure:
0-20 bar (0-290 psi)

Flow rates:
 $C_v = 6.8$ USgpm for 1
psi Δp
 $K_v = 98$ l/min for 1 bar
(15 psi) Δp

Temperature ratings:
Media (min/max):
-20°C/90°C (-4°F/194°F)
Ambient: must be
used within 'T' class
temperature ranges
shown

Port size:
3/4"

Process connections:
NPT

Voltage (nominal):

24V DC

Coil Rating:

19 ohms

Power Consumption:

30.3 watts

Weight:

18 kg

Materials:

Valve body & trim - 316L
stainless steel

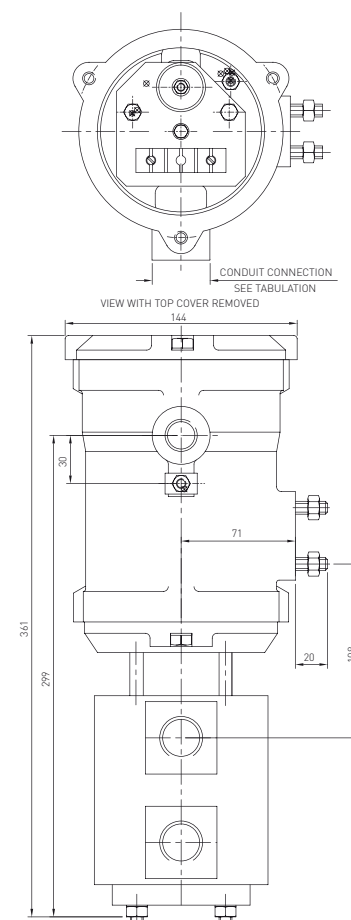
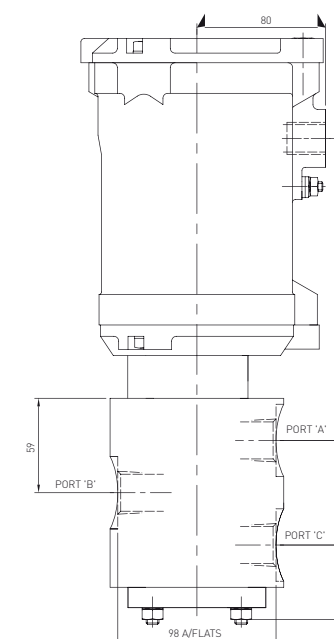
O-Rings seats & seals -
high nitrile

Paint finish - epoxy
[G.240] 150 micron[min]-
light grey

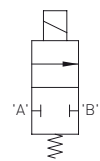
Ordering information:

Quote: S223SAA5H1BD

Options: None



SOV2 3/4" 2/2 FLANGED 19 BAR (276 PSI) AUTO



2/2 energise to open (normally closed)

Max. inlet pressure:
0-19 bar (0-276 psi)

Flow rates:
 $C_v = 6.8$ USgpm for 1 psi Δp
 $K_v = 98$ l/min for 1 bar (15 psi) Δp

Temperature ratings:
Media (min/max):
-20°C/90°C (-4°F/194°F)
Ambient: must be used within 'T' class temperature ranges shown

Port size:
3/4"

Process connections:
BS1560 CL 150RF

Voltage (nominal):
24V DC

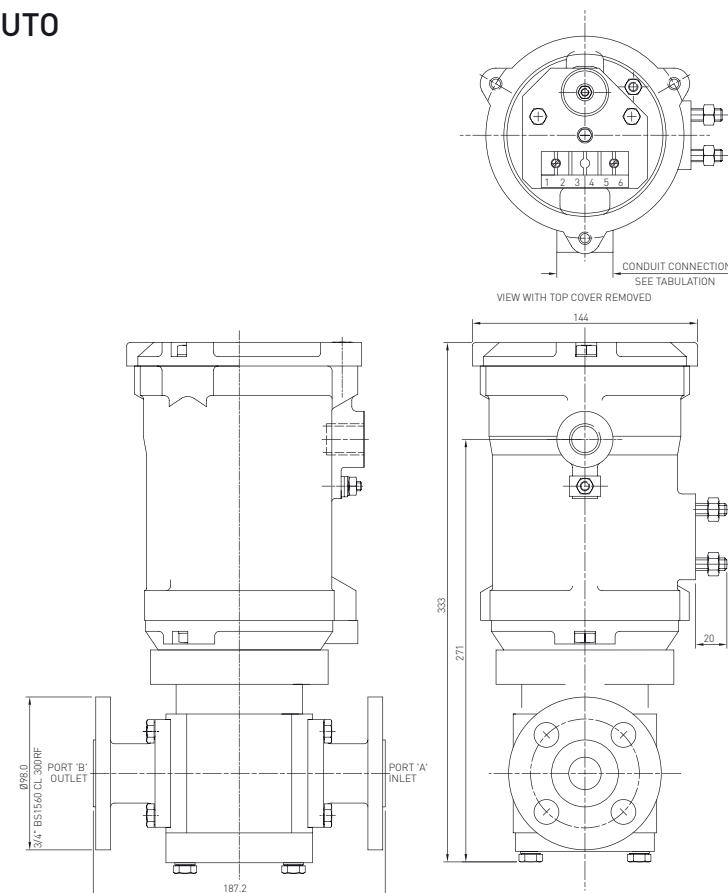
Coil Rating:
19 ohms

Power Consumption:
25 watts

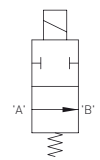
Weight:
20 kg

Materials:
Valve body & trim - 316 stainless steel
O-Rings seats & seals - high nitrile
Paint finish - epoxy [G.240] 150 micron[min]-light grey

Ordering information:
Quote: S2F1SA1HH1BD
Options: None



SOV3 1" 2/2 50 BAR (725 PSI) AUTO



2/2 energise to close (normally open)

Max. inlet pressure:
0-50 bar (0-725 psi)

Flow rates:
 $C_v = 16$ USgpm for 1 psi Δp
 $K_v = 232$ l/min for 1 bar (15 psi) Δp

Temperature ratings:
Media (min/max):
-20°C/90°C (-4°F/194°F)
Ambient: must be used within 'T' class temperature ranges shown

Port size:
1"

Process connections:
NPT

Voltage (nominal):
24V DC

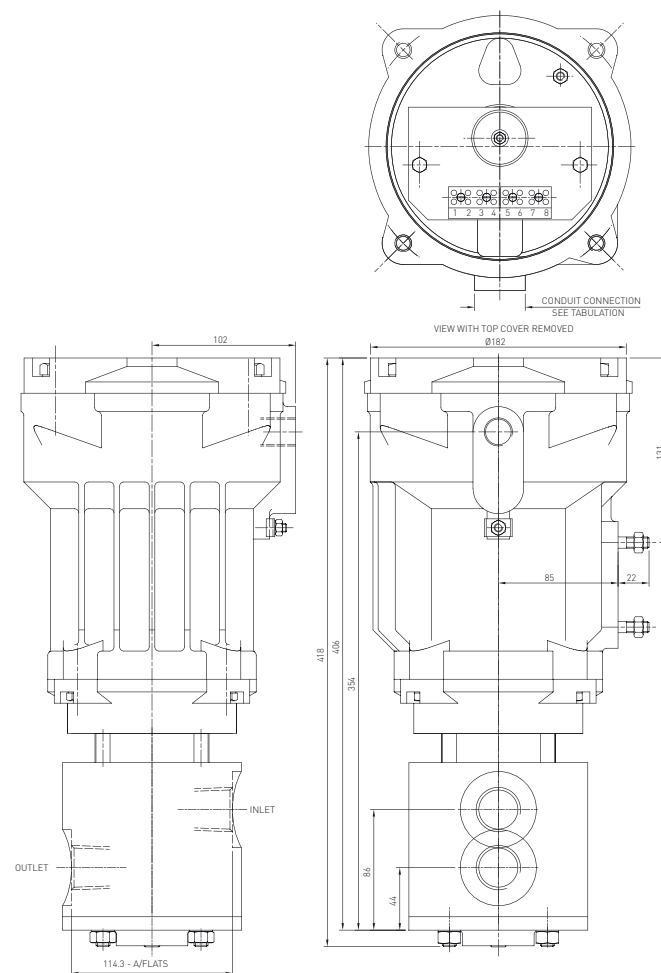
Coil Rating:
12 ohms

Power Consumption:
48 watts

Weight:
37.3 kg

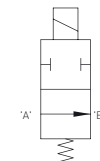
Materials:
Valve body & trim - 316L stainless steel
O-Rings seats & seals - high nitrile
Paint finish - epoxy [G.240] 150 micron[min]-light grey

Ordering information:
Quote: S332SAA6V1BDS
Options: Switches (SOV/3-6 only)



Profile and dimensions mm

SOV3 1" 2/2 FLANGED 19 BAR (276 PSI) AUTO



2/2 energise to close (normally open)

Max. inlet pressure:
0-19 bar (0-276 psi)

Flow rates:
 $C_v = 12.8$ USgpm for 1 psi Δp
 $K_v = 184$ l/min for 1 bar (15 psi) Δp

Temperature ratings:
Media (min/max):
-20°C/90°C (-4°F/194°F)
Ambient: must be used within 'T' class temperature ranges shown

Port size:
1"

Process connections:
BS1560 CL 150RF

Voltage (nominal):
24V DC

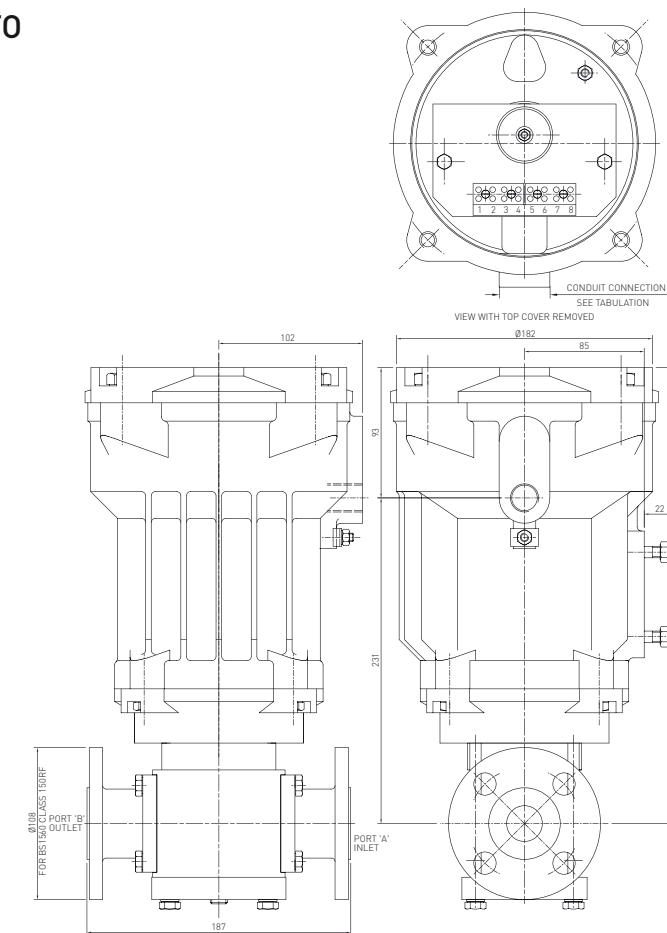
Coil Rating:
12 ohms

Power Consumption:
48 watts

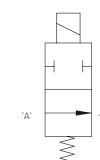
Weight:
33 kg

Materials:
Valve body & trim - 316 stainless steel
O-Rings seats & seals - high nitrile
Paint finish - epoxy [G.240] 150 micron[min]-light grey

Ordering information:
Quote: S3F2SA1QH1BD
Options: None



SOV4 1.5" 2/2 FLANGED 19 BAR (276 PSI) AUTO



2/2 energise to close (normally open)

Max. inlet pressure:
0-19 bar (0-276 psi)

Flow rates:
 $C_v = 28$ USgpm for 1 psi Δp
 $K_v = 403$ l/min for 1 bar (15 psi) Δp

Temperature ratings:
Media (min/max):
-20°C/90°C (-4°F/194°F)
Ambient: must be used within 'T' class temperature ranges shown

Port size:
1.5"

Process connections:
BS1560 CL 150 RF

Voltage (nominal):
24V DC

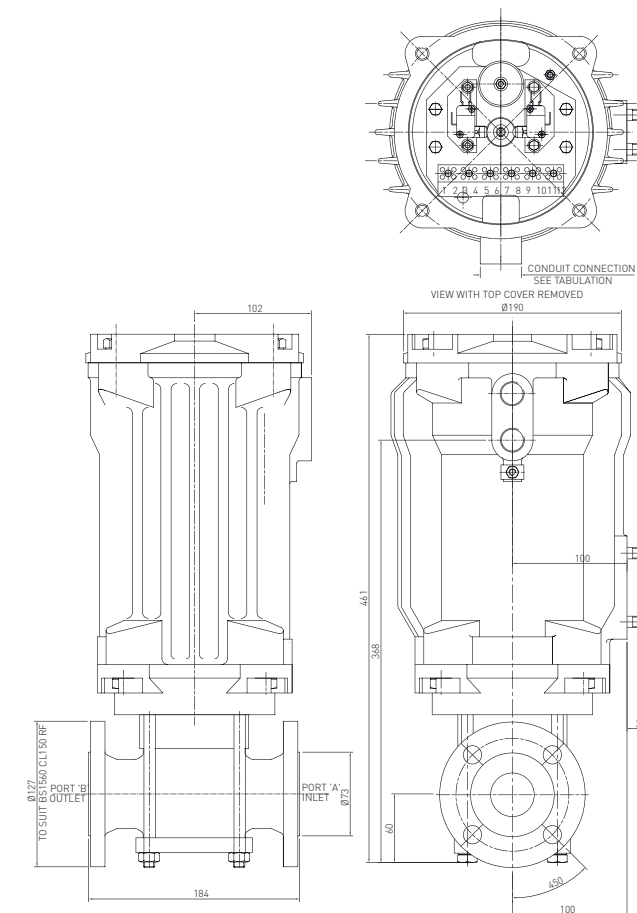
Coil Rating:
6.7 ohms

Power Consumption:
85.9 watts

Weight:
TBA kg

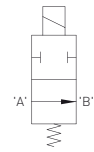
Materials:
Valve body & trim - 316 stainless steel
O-Rings seats & seals - viton
Paint finish - epoxy [G.240] 150 micron[min]-light grey

Ordering information:
Quote: S4F2SA1XV1BDS
Options: Switches (SOV/3-6 only)



Profile and dimensions mm

SOV5 1.5" 2/2 50 BAR (725 PSI) AUTO



**2/2 energise to open
(normally closed)**

Max. inlet pressure:
0-50 bar (0-725 psi)

Flow rates:
 $C_v = 28$ USgpm for 1 psi Δp
 $K_v = 403$ l/min for 1 bar (15 psi) Δp

Temperature ratings:
Media (min/max):
-20°C/90°C (-4°F/194°F)
Ambient: must be used within 'T' class temperature ranges shown

Port size:
1.5"

Process connections:
NPT

Voltage (nominal):
110V DC

Coil Rating:
120 ohms

Power Consumption:
100.8 watts

Weight:
68 kg

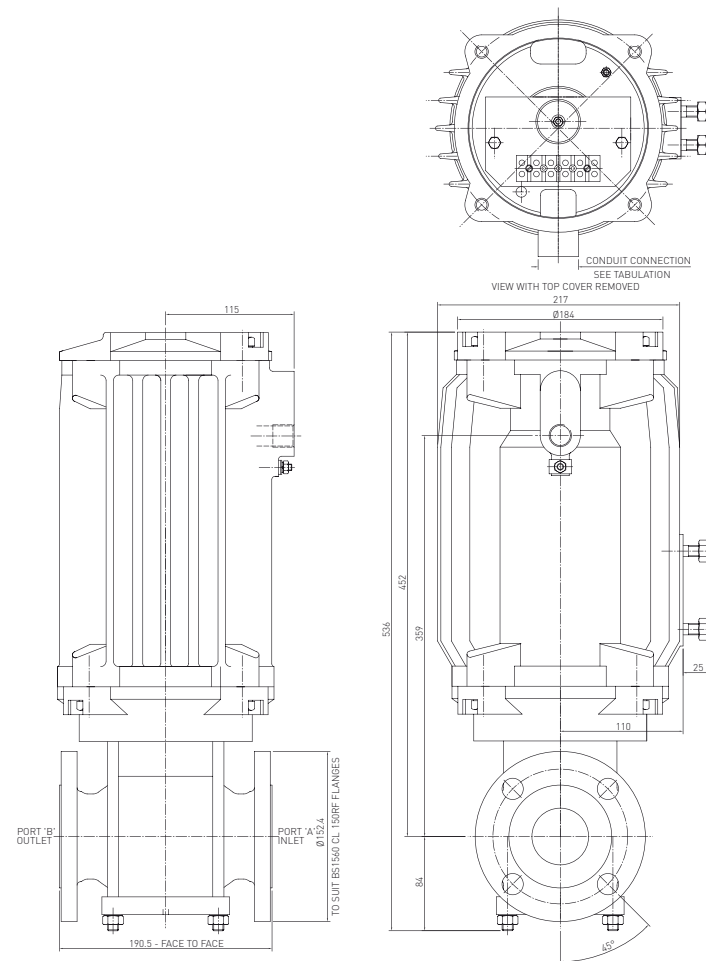
Materials:
Valve body & trim - 316L stainless steel
O-Rings seats & seals - viton

Paint finish - epoxy
[G.240] 150 micron[min]-light grey

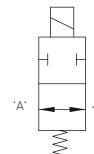
Ordering information:

Quote: S531SAA8V1DD

Options: None



SOV5 2" 2/2 FLANGED 19 BAR (276 PSI) AUTO



**2/2 energise to close
(normally open)**

Max. inlet pressure:
0-19 bar (0-276 psi)

Flow rates:
 $C_v = 48$ USgpm for 1 psi Δp
 $K_v = 691$ l/min for 1 bar (15 psi) Δp

Temperature ratings:
Media (min/max):
-20°C/90°C (-4°F/194°F)
Ambient: must be used within 'T' class temperature ranges shown

Port size:
2"

Process connections:
BS1560 CL 300RF

Voltage (nominal):
24V DC

Coil Rating:
5 ohms

Power Consumption:
115.2 watts

Weight:
TBA kg

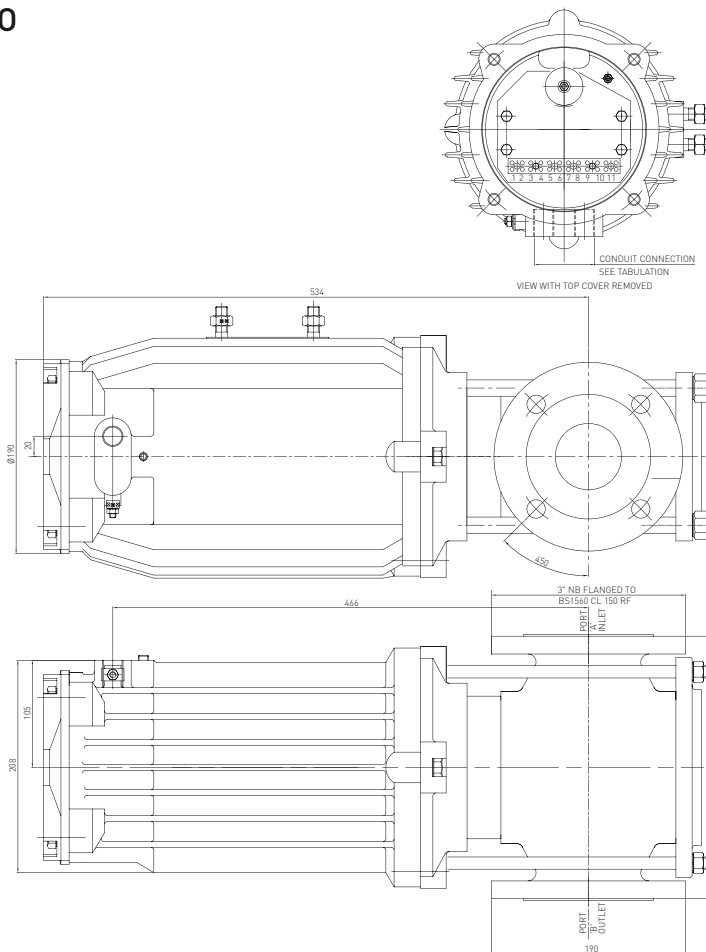
Materials:
Valve body & trim - 316 stainless steel
O-Rings seats & seals - high nitrile

Paint finish - epoxy
[G.240] 150 micron[min]-light grey

Ordering information:

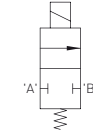
Quote: S5F2SA2FH1BD

Options: None



Profile and dimensions mm

SOV6 3" 2.2 FLANGED 19 BAR AUTO



**2/2 energise to close
(normally open)**

Max. inlet pressure:
0-19 bar (0-276 psi)

Flow rates:
 $C_v = 100$ USgpm for 1 psi Δp
 $K_v = 1440$ l/min for 1 bar (15 psi) Δp

Temperature ratings:
Media (min/max):
-20°C/80°C (-4°F/176°F)
Ambient: must be used within 'T' class temperature ranges shown

Port size:
3"

Process connections:
BS1560 CL 150RF

Voltage (nominal):
125V DC

Coil Rating:
104 ohms

Power Consumption:
150.2 watts

Weight:
110 kg

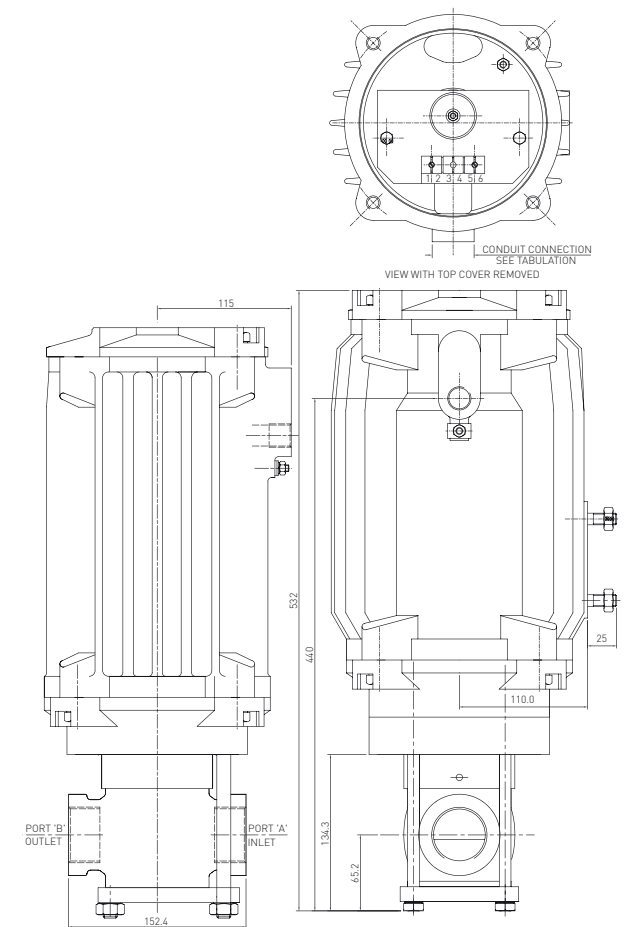
Materials:
Valve body & trim - 316 stainless steel
O-Rings seats & seals - viton

Paint finish - epoxy
[G.240] 150 micron[min]-light grey

Ordering information:

Quote: S6F2SA2MH1ED

Options: None



Profile and dimensions mm