

# Maxseal Instrument Changeover and Process Control Valve for Hazardous Areas Ex N



Model ICO4N 1/4"

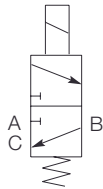
## Certification

EECS (BASEEFA) approved  
 Ex N IIC T6  
 Ex N IIC T4 ( $T_{amb} = 90^{\circ}\text{C}$ )  
 Complies with BS 6941: 1988

## Description

A direct-acting solenoid valve certified for hazardous area use as well as general air and gas purposes in the offshore and petrochemical industries.

3-port



2-port, EO



2-port, EC



## Standard Features

Port thread	1/4" NPT
Port configuration	3/2 Uni
Operating pressure	0 - 20 bar(g) (0 - 290 psi)
Actuation method	Automatic
Valve material	Brass BS EN 12163: 1998
Seat / Seal material	High nitrile (Buna N)
Operating voltage	24V DC; 7.8W at 20°C (68°F)
Conduit / Signal entry	M20 x 1.5 mm ISO (F)
Paint finish	Standard (green) 40 µm
Coil housing material	Cast iron BS EN 1561: 1997
Weight	3-port version: 3.5 kg (7.7 lb)
Cv value	0.8 (Kv 0.69)

## Options

Port thread	1/4" BSPP; 1/4" BSPT
Port configuration	2/2 EO; 2/2 EC
Actuation method	Autolatch, lever manual reset (LMR), lever manual override (LMO), tamperproof manual reset (see "Optional Valve Features")
Valve material	Stainless steel BS EN 10088
Seat / Seal material	Viton®, Alternative materials available on request
Operating voltages	DC: 12, 24, 50, 110, 125, 240 AC: 24, 50, 110, 240, 440
Conduit / Signal entry	1/2" NPT, 13.5 PG
Paint	Epoxy (light grey) 150 µm
CV value	0 - 50 bar(g) (0 - 725 psi) = 0.6 (Kv = 0.5)

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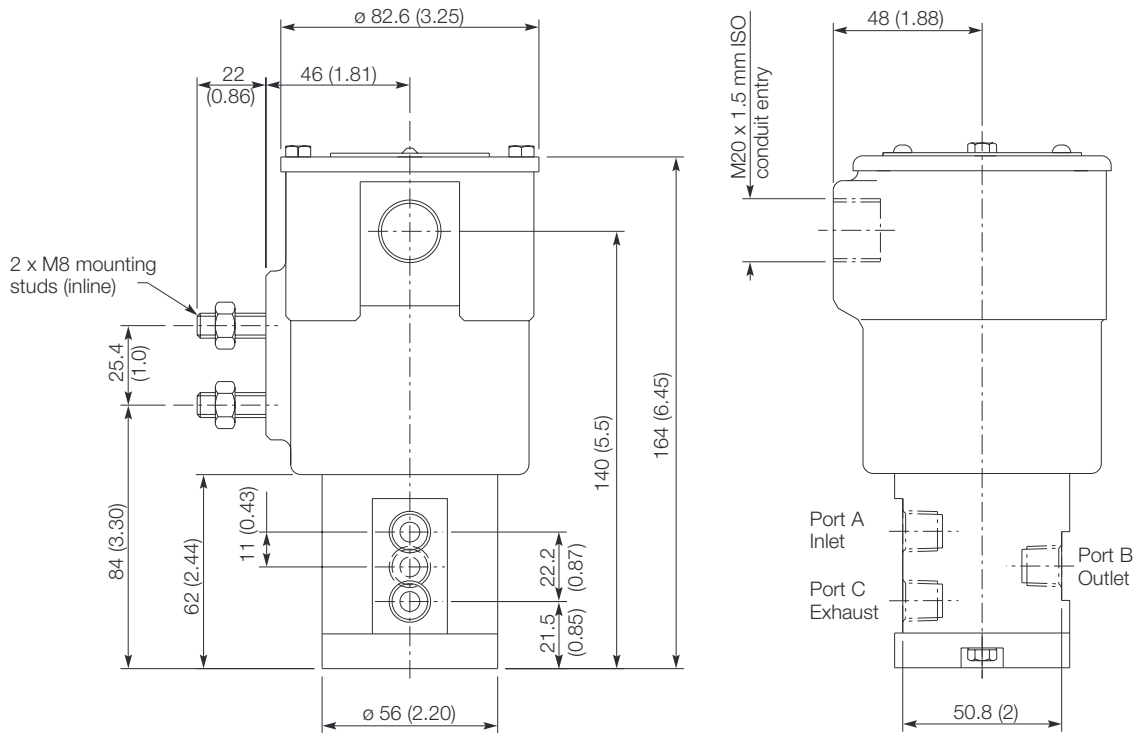
**Maxseal**  
**Instrument Changeover and Process Control Valve for Hazardous Areas**  
**Ex N**  
**ICO4N 1/4"**

**Technical Specification**

Protection	Ingress IP65 - IP68 Surge suppression diodes
Response times (typical, dependent on coil size)	Pull-in < 150 ms Drop-out < 80 ms
Response times settings	Pull-in: within 87.5% of nominal (factory set at less than 75% of nominal) Drop-out: normally 10-20% of nominal
Operating pressure ranges	0 - 20 bar(g) (0 - 290 psi) (standard) 0 - 50 bar(g) (0 - 725 psi) (option)

**Dimensions in mm (inches)**

(3/2 Uni configuration illustrated)



**i** Remember that overhaul kits and replacement coil housing assemblies are available.