

NAMUR Mounted, Type C15, 'P' Series Solenoid Valve



Description

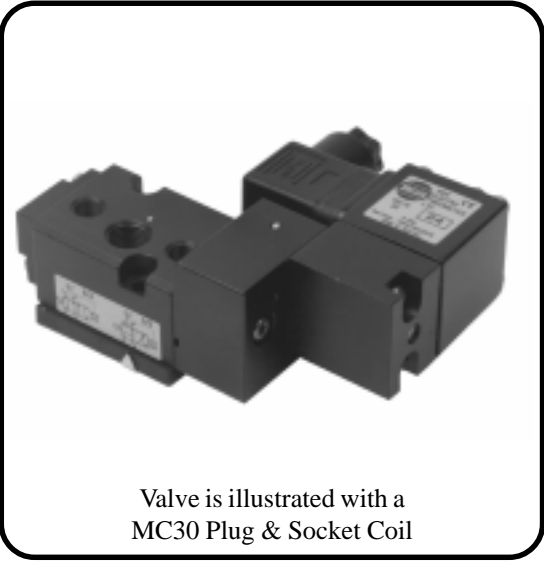
Solenoid valve designed for direct mounting onto 1/4 turn pneumatically operated valve actuators meeting 'NAMUR' standard fixing dimensions.

Features

- Interchangeable CNOMO interface coil units, including various hazardous area options.
- Integrated Exhaust to Spring (ETS) feature in 3/2 position.
- Top face air connection.
- 1/4" BSP mains air connection and 1/8" BSP exhaust ports.
- Single coil spring return function or double coil stay put function.
- Pilot Exhaust Dust Caps fitted as standard.

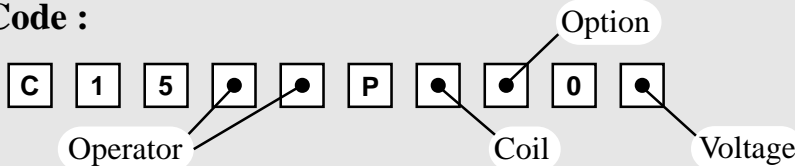
Conversion Facility

- Built in 3/2 to 5/2 function conversion facility for spring return and double acting actuators respectively. (see reverse)



Valve is illustrated with a MC30 Plug & Socket Coil

Product Code :



See below for product code details
Any of the below options that are not required enter '0' in relevant box.

Operator

Options:

Spring return, internal pilot air feed

Code:

Double solenoid, internal pilot air feed

Option

Options:

Screw Driver Override (Standard)

Code:

Lever Manual Override

Push Button Manual Override

No Option Required

Coil

Coil:

Code:

EExia (BASEEFA)

Coil:

Code:

EExm

EExia (FM)

ExN

EExia (SAA)

Plug & Socket

EExia (CSA)

MC30 Plug & Socket

EExd

Terminal Box

No Coil Unit

Voltage

Voltage:

Code:

12v DC

Voltage:

Code:

24v AC (50/60 Hz)

12v DC Low Power

48v AC (50/60 Hz)

24v DC

110v AC (50/60 Hz)

24v DC Low Power

240v AC (50/60 Hz)

No Voltage (no coil)

415v AC (50/60 Hz)

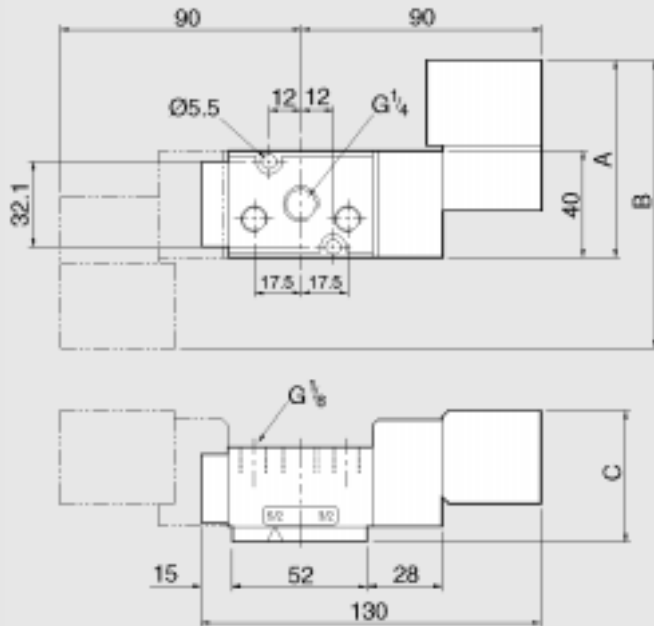
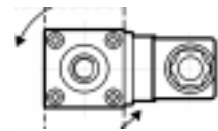
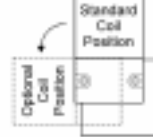
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Coil Orientation

The solenoid pilot can be mounted in two possible positions by rotating the solenoid base through 90°. This is achieved by releasing the two M4 pozi-drive screws which secure the solenoid pilot to the valve body. When changing the solenoid pilot position care should be taken to ensure the triangular gasket seal is in place.

The coil itself can be rotated in 90° steps by releasing the four securing screws. When rotating the coil care should be taken to ensure the core assembly (core, spring, seal and washer) remains intact and aligned correctly. This is easily achieved by only lifting the coil the small amount required to clear the screws enabling the coil to be rotated.



Conversion Facility :

Valve is fitted with a change over plate which allows the valve to be converted from 3/2 to 5/2 function quickly and easily. In 3/2 function a proportion of clean air exhausting from the actuator is fed back in to the spring chamber.

Dimensions (mm)

| Coil Type | A | B | C |
|---------------|-----|-----|----|
| Plug & Socket | 95 | 144 | 51 |
| MC30 Coil | 92 | 150 | 48 |
| Terminal Box | 100 | 160 | 51 |
| ExN | 102 | 160 | 51 |
| EExd | 113 | 186 | 60 |
| EExia | 117 | 194 | 51 |
| EExm | 102 | 164 | 51 |

| Material Specification | Standard |
|------------------------|--|
| Body and End Caps | Black Anodised Aluminium (Dural) |
| Spool | Hard Anodised Aluminium PTFE impregnated |
| Jet | Brass |
| Spacers | Glass filled Acetal |
| Seals | Nitrile |
| Spring | Stainless Steel |
| Mounting Screws | Stainless Steel |
| Change over plate | Nylon 66 30% glass filled |
| Gasket | Nitrile |

| Valve Specification | Standard |
|---|------------|
| Inlet Port Connection Size | 1/4" BSP |
| Exhaust Port Connection Size | 1/8" BSP |
| Working Pressure | 3 to 8 bar |
| Cv Factor | 0.7 |
| Flow Rate (at 6 bar with 1 bar pressure drop) | 675 l/min |
| Maximum Ambient Temperature | +60°C |
| Minimum Working Temperature | -10°C |

Non-Standard Features and Options

There are non-standard alternatives available in addition to those listed within this datasheet for:

- Material Specification
- Valve Specification
- Options
- Voltages

Please refer to Section 9 in this catalogue for details of these alternatives.

| Coil Type | Plug & Socket | Terminal Box | ExN | EExd | EExm | EExia |
|--------------------|---------------|--------------|--------------|----------------|--------------|----------------|
| Area Class | Safe | Safe | Zone 2 | Zones 1 & 2 | Zones 1 & 2 | Zones 0, 1 & 2 |
| Area Category | N/A | N/A | ExN II T4/T6 | EExd IIC T4/T6 | EExm IIC T5 | EExia IIC T6 |
| Ingress Protection | IP65 | IP65 | IP65 | IP66 | IP65 | IP65 |
| Cable Entry | PG.9 | M20 x 1.5 | M20 x 1.5 | M20 x 1.5 | Flying Leads | M20 x 1.5 |
| Ambient Temp. | -10 to 60°C | -10 to 60°C | -10 to 40°C | -10 to 40°C | -10 to 65°C | -10 to 65°C |
| Coil Class | F | F | F | F | F | F |