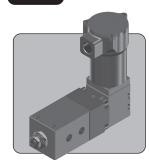
1/4"

UP TO 690 BAR 10,000 PSI



The 2/3EPS25 is a 1/4" nominal bore 2 position 3 way directional control valve operated by an integral solenoid pilot valve. The pilot stage is supplied from a separate hydraulic or pneumatic source which can be a different fluid than the main stage supply.

This versatile valve utilizes a balanced spool enabling it to

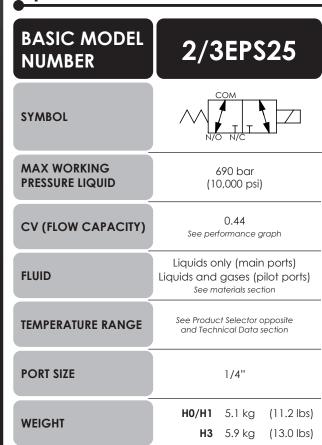
be used in normally closed, normally open and selector configurations. A wide range of solenoid pilot thrusters are available including ATEX and IECEx approved coils for use in hazardous areas

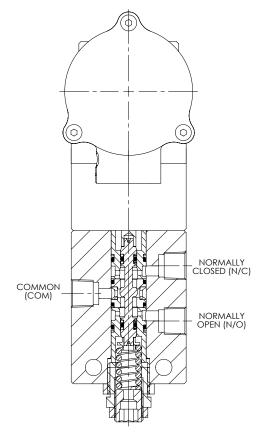
- 2 position 3 way pilot operated solenoid valve
- Stainless Steel Construction
- Balanced spool design with spring return
- Low leakage
- Available for various pilot ranges
- Efficient low power 3 watt pilot valve
- Independently certified SIL 3 capability
- Wide variety of mounting, connection, voltage, override and reset options available

Specifications

Specifications may change without notice

RS VALVES





Materials

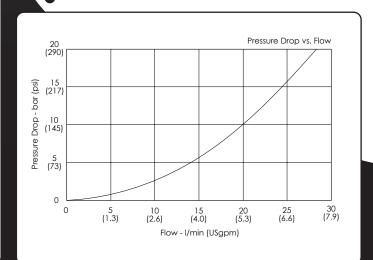
Externally Exposed Parts: 316 and 17/4 pH Stainless Steel with a 302 spring. Increased corrosion resistance options available.

Acetal push button for manual override and reset options.

Internally Wetted Parts: 316, 302, 431 and 17/4 pH Stainless Steel, Silicon Nitride, acetal and PTFE. The standard valve is designed to be used with non-corrosive liquids only such as mineral oil and water alvcol. The low pressure 'H3' version is additionally suitable for use with air and nitrogen as a pilot supply medium. Materials offering improved corrosion resistance are available, contact us

The standard valve has Viton® seals. Further seal options are available via the Product Selector. Compatibility with the working fluid at the operating temperature must be considered.

Typical Performance



03/21

Valve & Thruster Options

Valve Options

Thruster & Seal Options

As standard the valve will actuate when a suitable electrical supply and pilot pressure is applied and is returned by a spring when either the electrical supply or pilot pressure is removed.

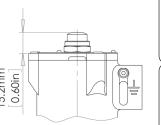
MO: Manual Override – With suitable pilot pressure applied, the valve may be temporarily switched via a push button without an electrical supply.

MR: Manual Reset - With suitable pilot supply and electrical supply the valve will not switch until the push button is pressed.

MOMR: Manual Override and Manual Reset - With suitable pilot pressure applied, the valve may be temporarily switched via a push button without an electrical supply, additionally the valve will not switch with an electrical and pilot supply until the push button is pressed.

Please contact us for further override, reset and latching options.

ADDITIONAL HEIGHT FOR MO, MR AND MOMR VARIANTS



4 PORT DIRECTION

For use in zone 1 and 2 explosive atmospheres as defined by 1999/92/EC either the STEXd or STEXm thruster must be selected. It is the customer's responsibility to assess the application and to determine the zone and temperature class for their particular

atmosphere. Please contact us if use in zone 0 is required. The temperatures stated for seal options relate to the temperature of the fluid inside the valve. Maximum fluid temperature should be limited to the allowable ATEX surface temperature. The minimum allowable ambient temperature is equal to the minimum allowable seal temperature. The table below details the maximum allowable ambient temperature limits. All coils use class H insulation

The thruster options included on this data sheet represent only a few common configurations. Please contact us where alternative options are required, such as dual coil windings, alternative electrical supplies, connections and conduits or when subsea use is required

| Thruster Type | Maximum Ambient Temperature for non-hazardous area | Maximum Ambient Temperature for T4 temperature rating | Maximum Ambient Temperature for T6 temperature rating | IP Rating |
|------------------|--|---|---|--------------|
| STHC | 90°C | Not allowed | Not allowed | 65 |
| STKC | 90°C | Not allowed | Not allowed | 68 |
| STEXd | 90°C | 90°C* | 65°C | 68 |
| STEXm | 90°C | 80°C* | Not allowed | 68 |

^{*} A maximum ambient temperature of 65°C is allowed if NBR seals are selected

| Voltage Option | Voltage Range | Dropout Voltage | | |
|-------------------|------------------------|--------------------|--|--|
| 12VDC | 10.8 – 13.2V | 1.2 – 3.0V | | |
| 24VDC | 21.6 – 26.4V | 2.4 – 6.0V | | |
| 48VDC | 43.2 – 52.8V | 4.8 – 12.0V | | |
| 115VAC | 100.0 – 127.0V 50/60Hz | 11.5 – 29.0V | | |
| 230VAC | 215.0 – 253.0V 50/60Hz | 23.0 - 57.5V | | |

Product Selector

2/3EPS25 HO - STHC - 12VDC - NBR - 10K - MO -MAX SEAL VALVE PORTING **VALVE PILOT** THRUSTER VOLTAGE WORKING-**TYPE OPTIONS OPTIONS OPTIONS OPTIONS OPTIONS OPTIONS PRESSURE** eave blank if none required Leave blank for Viton® seals -10°C to +120°C

2/3EPS25 1/4" BSPP female Ν 1/4" NPT female -56AE 3/8" OD medium tube port M Repair and seal kits

Manifold mount

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are available on reauest For a seal kit add SK at the end of Further porting the model code and for a repair options are available on

www.bisvalves.co.uk

241 bar 400 to 3,500 psi Manual reset Liquids only **MOMR** H1 and manual High pressure reset pilot 97 to 960 bar (1,400 to Liquids only

See valve and

MO

Manual override

MR

above for further

M20 conduit **STEXd**

STHC

Din connector

STKC

Further thruste

available

Н3 Low pressure pilot 3 to 16 bar (44 to 232 psi) Liquids and Gases

H0

pilot 28 to

andard pilot por onnections are ¼ NPT female Further pilot port options are vailable on reaues

48VDC 48 volt DC approved 115VAC **STEXm** 110/120 volt AC

230VAC 230/240 volt AC

12VDC

12 volt DC

24VDC

24 volt DC

115VAC and 230VAC available only with the Further voltage

ratinas relate to luid temperature See above for ambient temperatures

NBR

Nitrile seals

-20°C to +105°C

HNBR

Hydrogenated

Nitrile seals

-20°C to +120°C

options are available on request

10K 690 bar

(10,000 psi)

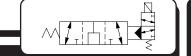
Further seal option are available on request. Temperature

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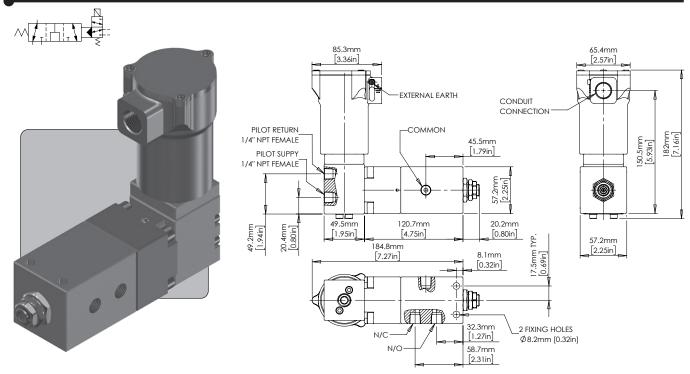


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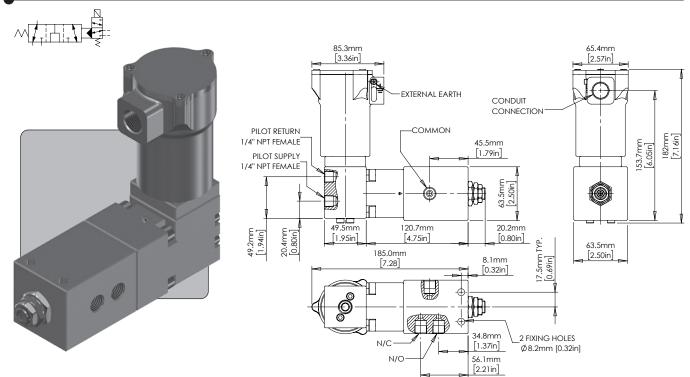
2/3EPS25 EXTERNAL PILOT SOLENOID VALVE



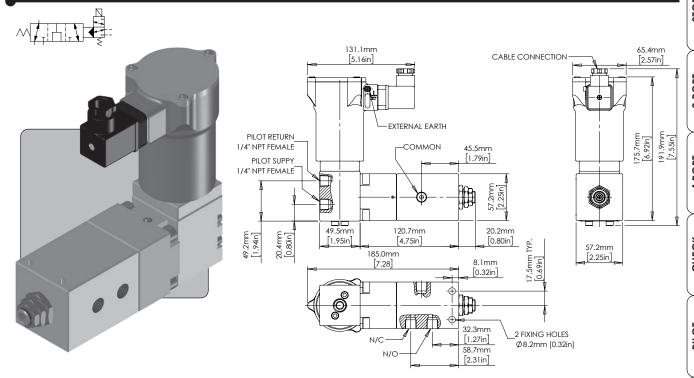
2/3EPS25-H0 and H1 Hydraulic Pilot Supply



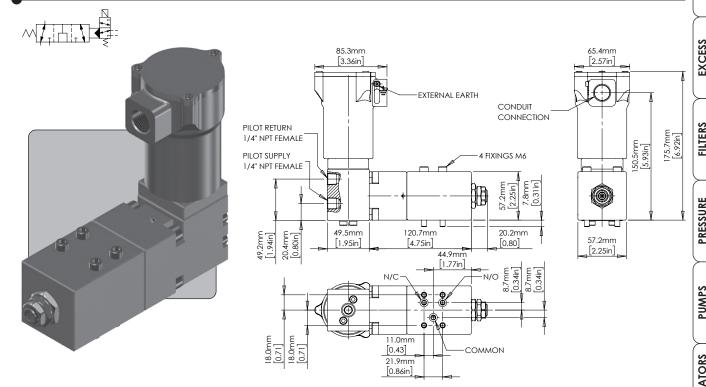
2/3EPS25-56AE Hydraulic Pilot Supply (H0 and H1 Pilot Options)



2/3EPS25-STHC Hydraulic Pilot Supply (H0 and H1 Pilot Options)



2/3EPS25M Hydraulic Pilot Supply (H0 and H1 Pilot Options)



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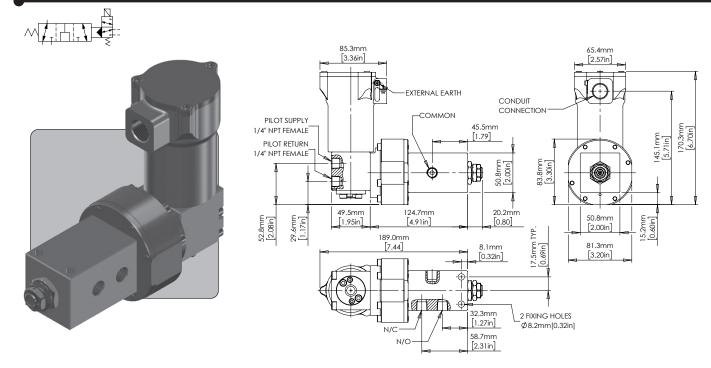
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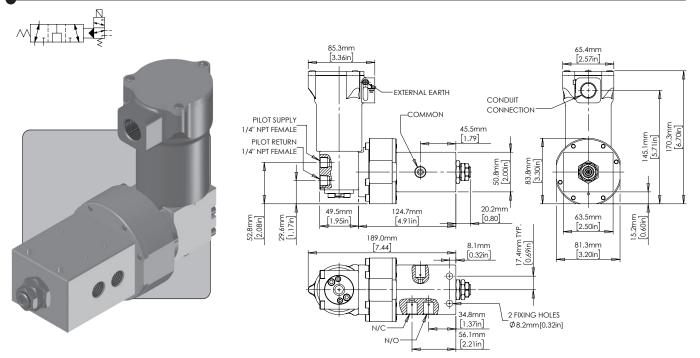


2/3EPS25 EXTERNAL PILOT SOLENOID VALVE

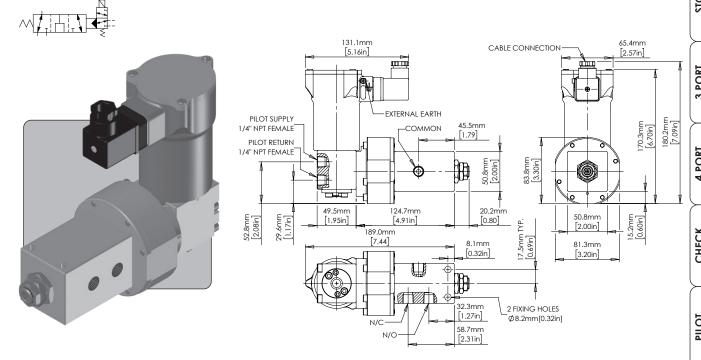
2/3EPS25-H3 Hydraulic and Pneumatic Pilot Supply



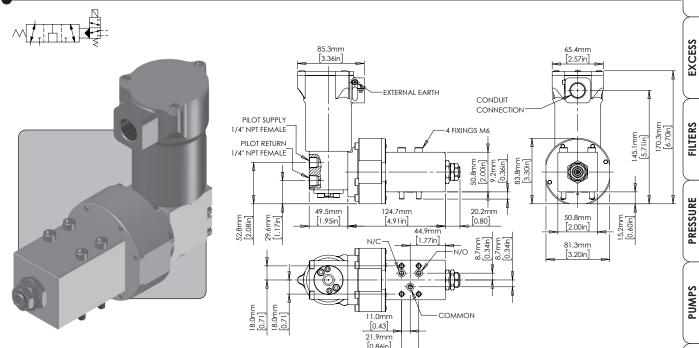
2/3EPS25-56AE-H3 Hydraulic and Pneumatic Pilot Supply



2/3EPS25-H3-STHC Hydraulic and Pneumatic Pilot Supply



2/3EPS25M-H3 Hydraulic and Pneumatic Pilot Supply



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