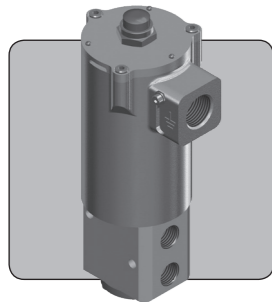


# 2/3AS25

## DIRECT SOLENOID VALVE

1/4" 3/8"

UP TO 16 BAR  
232 PSI



The 2/3AS25 is a 2 position 3 way direct acting stainless steel low pressure solenoid valve. This versatile valve utilises a balanced spool enabling it to be used in normally closed, normally open and selector configurations.

A wide variety of low wattage solenoid thrusters are available, including ATEX and IECEx

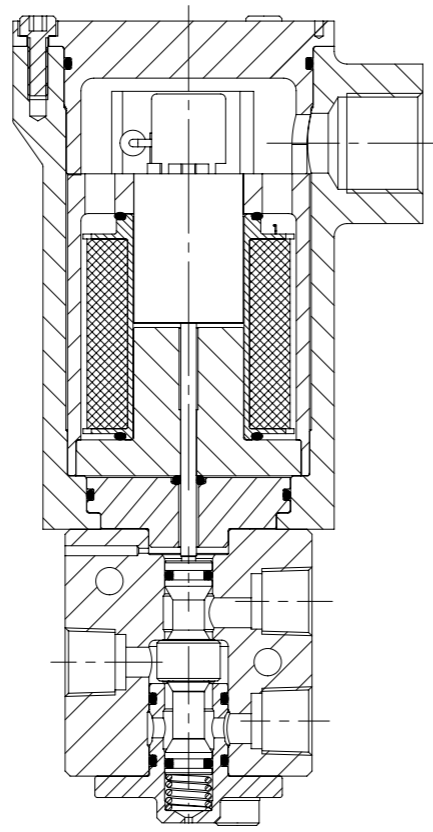
approved coils for use in hazardous areas and numerous electrical connections. Override and reset options provide additional functionality for systems where the ability for manual intervention is required.

- 2 position 3 way direct acting solenoid valve
- Stainless steel construction
- Balanced spool design allows multiple flow configurations
- Elastomeric seat seals for virtually zero leakage
- Efficient 3 watt coil provides high force from low power
- Independently certified SIL 3 capability
- Coil may be rotated 360° to suit cable layout
- Built-in surge suppression diode for fast response
- Wide variety of mounting, connection, voltage, override and reset options available

### Specifications

<b>BASIC MODEL NUMBER</b>	<b>2/3AS25</b>
<b>SYMBOL</b>	
<b>MAX WORKING PRESSURE</b>	16 bar (232 psi)
<b>CV (FLOW CAPACITY)</b>	0.6 See performance graph
<b>FLUID</b>	Liquids and Gases See materials section
<b>TEMPERATURE RANGE</b>	See Product Selector opposite and Technical Data section
<b>PORT SIZE</b>	1/4" or 3/8"
<b>WEIGHT</b>	2.45 kg (5.40 lb)

Specifications may change without notice



### Materials

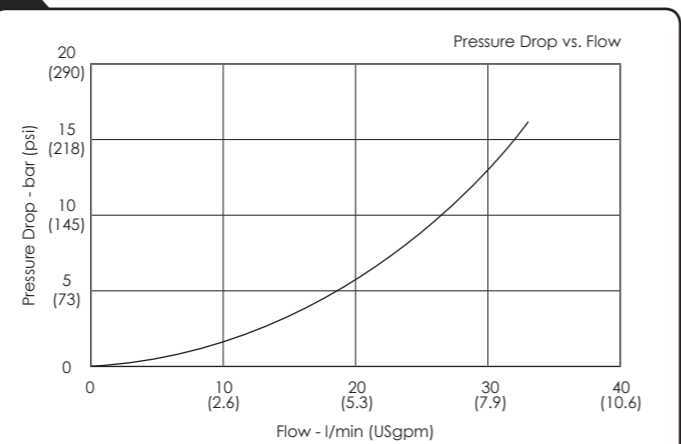
Externally Exposed Parts: 316 Stainless Steel. 302 stainless steel spring. Acetal push button for manual override and reset options.

Internally Wetted Parts: 316 Stainless Steel.

The standard valve is designed for use with air, nitrogen, sweet natural gas, mineral oils, water glycols and plain water and may also be used with a wide variety of media compatible with the materials of construction.

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



Typical performance based on water

### Valve & Thruster Options

#### Valve Options

As standard the valve will move to the energised position when a suitable electrical supply is applied and is returned by a spring (auto-reset) when the electrical supply is removed.

Alternative options include –

**MO : Manual Override** – With the electrical supply de-energised the valve may be temporarily switched via a push button. Releasing the push button will allow the valve to return. Contact us if a detented manual override feature is required.

**MR : Manual Reset** – Electrically energising the solenoid will not cause the valve to switch until the push button is pressed. Once the valve is switched the push button may be released and the valve will remain switched. Removing the electrical supply will cause the valve to return to the de-energised position. The valve will not switch if the push button is pressed with the coil de-energised.

**MOMR : Manual Override and Manual Reset** – Electrically energising the solenoid will not cause the valve to switch until the push button is pressed. Once the valve is switched the push button may be released and the valve will remain switched. Removing the electrical supply will cause the valve to return to the de-energised position. The valve will switch if the push button is pressed with the coil de-energised.

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

#### Thruster & Seal Options

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.

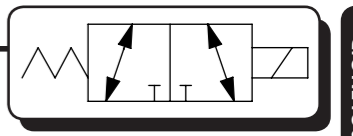
The temperatures stated for seal options relate to the temperature of the fluid inside the valve. The minimum allowable ambient temperature is equal to the minimum allowable seal temperature. The table below details the maximum allowable ambient temperature limits. All coils use class H insulation.

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.

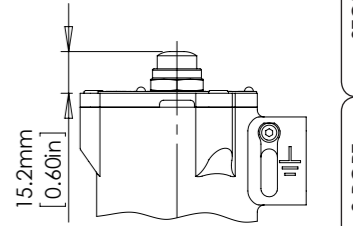
Thruster Type	Maximum Ambient Temperature for non-hazardous area	Maximum Ambient Temperature for T4 temperature rating	Maximum Ambient Temperature for T6 temperature rating	IP Rating
STHC	90°C	Not allowed	Not allowed	65
STKC	90°C	Not allowed	Not allowed	68
STExd	90°C	90°C*	65°C	68
STExm	90°C	80°C*	Not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



ADDITIONAL HEIGHT FOR MO, MR AND MOMR VARIANTS



### Product Selector

**2/3AS25 P - MO - STHC - 12VDC - NBR - 16B**

VALVE TYPE	PORTING OPTIONS	VALVE OPTIONS	THRUSTER OPTIONS	VOLTAGE OPTIONS	SEAL OPTIONS	MAX WORKING PRESSURE
<b>2/3AS25</b>	<b>P</b> 1/4" BSP female <b>N</b> 1/4" NPT female <b>/37P</b> 3/8" BSP female <b>/37N</b> 3/8" NPT female <b>M</b> Manifold mount	Leave blank if none required <b>MO</b> Manual override <b>MR</b> Manual reset <b>MOMR</b> Manual override and manual reset	<b>STHC</b> Din connector <b>STKC</b> M20 conduit <b>STExd</b> Ex db approved <b>STExm</b> Ex emb approved	<b>12VDC</b> 12 volt DC <b>24VDC</b> 24 volt DC <b>48VDC</b> 48 volt DC <b>115VAC</b> 110/120 volt AC <b>230VAC</b> 230/240 volt AC  115VAC and 230VAC available only with the STExd thruster	Leave blank for Viton® seals -10°C to +120°C <b>NBR</b> Nitrile seals -25°C to +105°C <b>EP</b> EPDM seals -45°C to +120°C <b>LNBR</b> Low temperature Nitrile seals -55°C to +120°C <b>HNBR</b> Hydrogenated Nitrile seals -20°C to +120°C Further seal options are available on request. Temperature ratings relate to fluid temperature. See above for ambient temperatures	<b>16B</b> 16 bar (232 psi)
Repair and seal kits are available on request For a seal kit add SK at the end of the model code and for a repair kit add RK	Further porting options are available on request	See valve and thruster options above for further details	Further thruster options are available on request	Further voltage options are available on request		



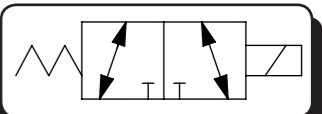
CATALOGUE ALSO AVAILABLE ON CD  
VISIT OUR WEBSITE FOR A FULL ONLINE SEARCH FACILITY  
[www.bisvalves.co.uk](http://www.bisvalves.co.uk)

**BS VALVES**  
The Specifier's Catalogue

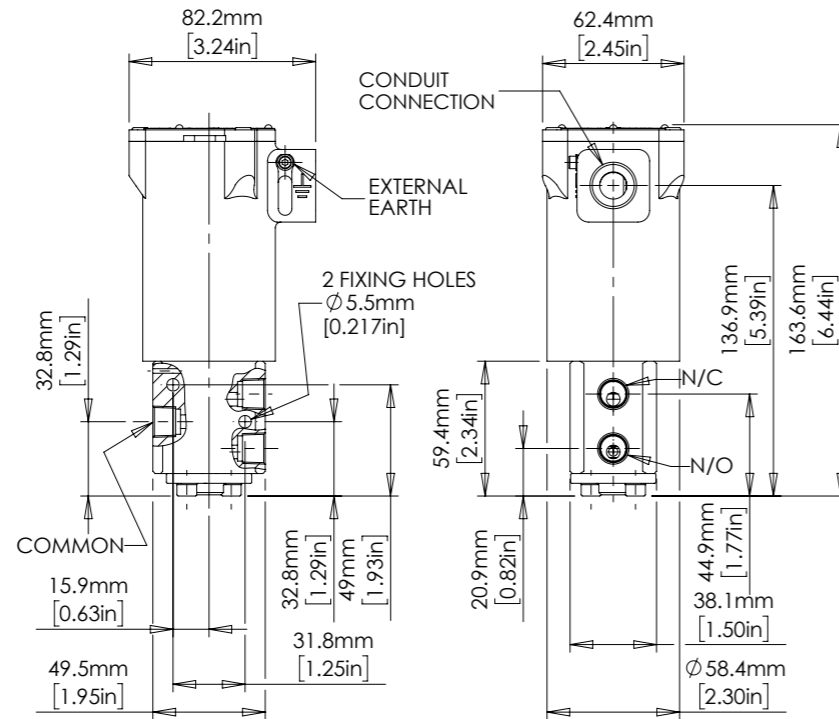
SOLENOID  
STOP AND METERING  
3 PORT DIRECTIONAL CONTROL  
4 PORT DIRECTIONAL CONTROL  
CHECK AND SHUTTLE  
PILOT OPERATED CHECK  
RELIEF  
EXCESS FLOW  
FILTERS  
PRESSURE SENSING  
PUMPS  
ACTUATORS  
TECHNICAL DATA

# 2/3AS25

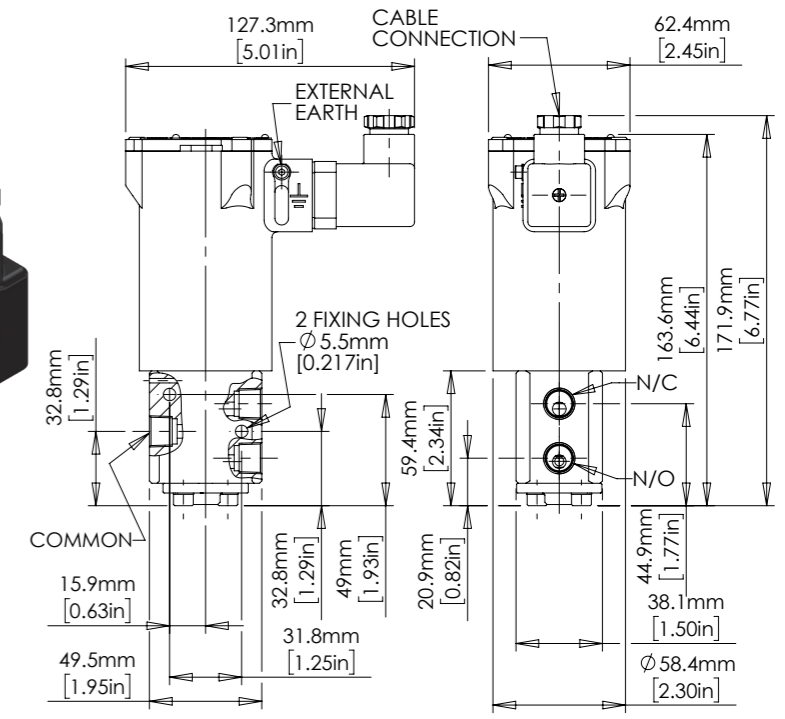
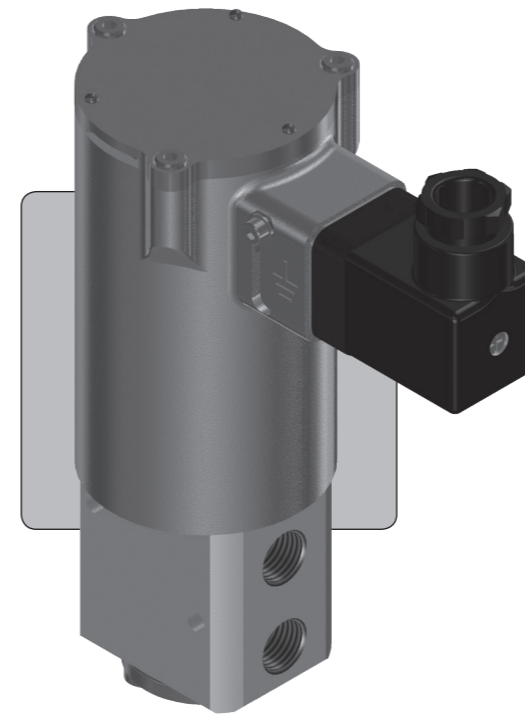
## DIRECT SOLENOID VALVE



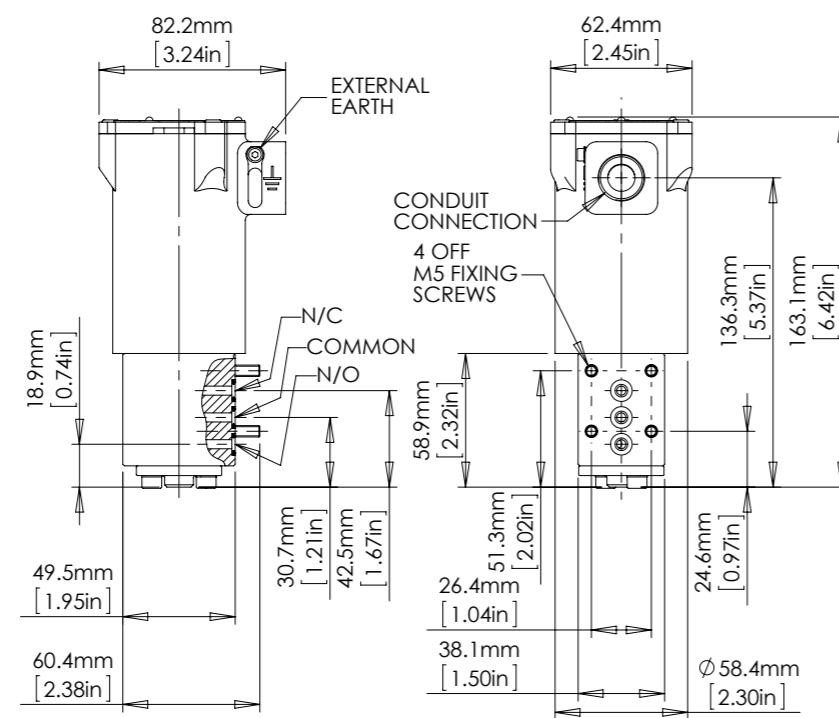
2/3AS25-STEXd



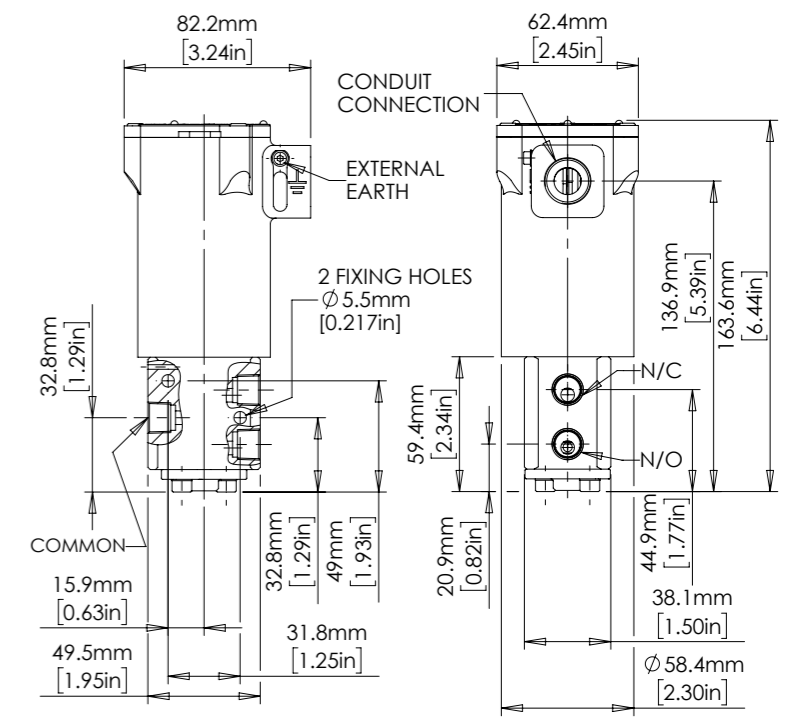
2/3AS25-STHC



2/3AS25M-STEXm



2/3AS25-STKC



SOLENOID

STOP AND METERING

3 PORT DIRECTIONAL CONTROL

4 PORT DIRECTIONAL CONTROL

CHECK AND SHUTTLE

PILOT OPERATED CHECK

RELIEF

EXCESS FLOW

FILTERS

PRESSURE SENSING

PUMPS

ACTUATORS

TECHNICAL DATA