Measure Monitor Control

D03.d

Solenoid Valve - 5/2 - Single Solenoid - Monostable

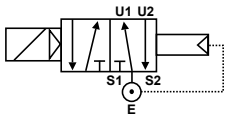
Benefits & Features

- Five way single solenoid valve
- Suitable for gaseous media
- High dependency applications
- Compact design
- Brass or 316 stainless steel bodies
- Ex-d IIC -60°C to +60°C ambient versions
- ATEX, EAC Ex (CU TR 012) and IECex, Ex-d approved

Specification

Configuration	Internal pilot operation
Port Sizes	1/4” BSP or NPT
Orifice	7.0mm
Kv	see table below
Body	Brass or 316 stainless steel
Media	gaseous media, subject to material compatibility
Pressure ranges	3 - 10 Bar
Seals	NBR, VITON, HNBR

Configuration



D03.d Single Solenoid Monostable	
IN:	E
Coil De-energised:	From E to U1
	From U2 to S2
Coil Energised:	From E to U2
	From U1 to S1

Technical Data

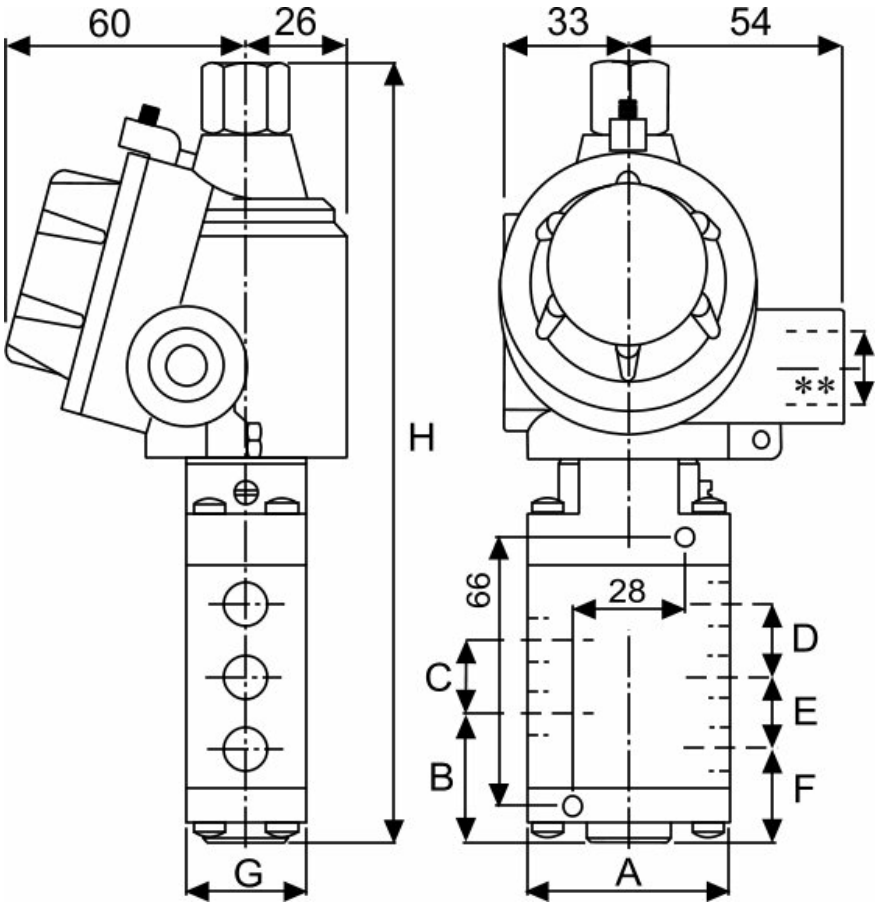
	A		B	C	D	E	Port Size BSP or NPT	Body Rating	Orifice mm	Min . /Max. Operating Differential Pressures. Min. BAR	Maximum BAR AC	Maximum BAR DC	KV Flow Factor L/min.
D03		70					¼”	10	7.0	3	10	10	12.5

Measure Monitor Control is a trading name of Red Dragon Ltd. All rights reserved. e&oe

Solenoid Valve - 5/2 - Single Solenoid - Monostable

Dimensions

Weight Kg	Dimensions mm							
	A	B	C	D	E	F	G	H
1.2	50	32	18	18	18	23	30	193



Order Codes

A	Body	B	Port			C	Seals (fluid temp. min / max)	D	Protection	E	Options
T	Brass	C	1/4" BSP	D	1/4" NPT	0	NBR (-10°C to + 70°C)	B	II 1/2 GD Ex-d IIB T6 (-20 to +40°C)	X	Manual Override
I	316 Stainless Steel					1	VITON (-10°C to + 90°C)	C	II 1/2 GD Ex-d IIC T6 (-20 to +40°C)	/SG	Degreased for oxygen
						7	HNBR (-10°C to + 90°C)	/LT	II 1/2 GD Ex-d IIC T6 (-60 to +60°C)		
								H	Ex-d c IIB IP67 IECEX		
								T	Ex-d c IIC IP67 IECEX		
								R	Ex-d IIC EAC Ex		
								S	IP67 (Safe Area)		

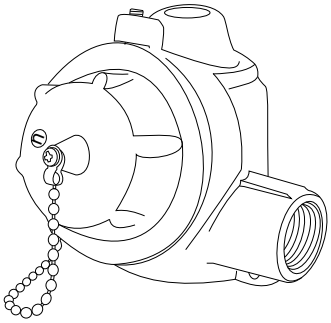
Measure Monitor Control is a trading name of Red Dragon Ltd. All rights reserved. e&oe

Measure Monitor Control

Solenoid Wiring
IP67 Housing
SAFE AREA & EEXD

Electrical Wiring - IP67 Housing

Installation Procedures & Methods



Attention: For safety purposes, always ensure that the power supply is disconnected. After de-energising, allow 15 minutes before continuing the following procedures

A

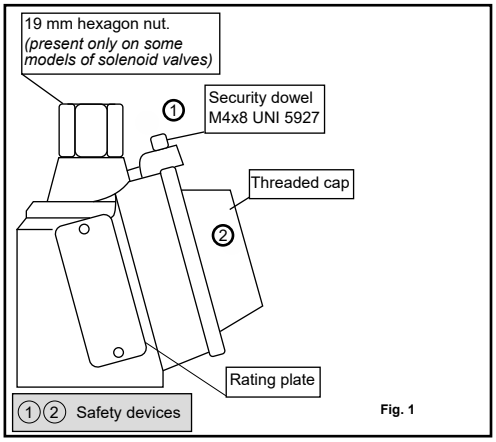
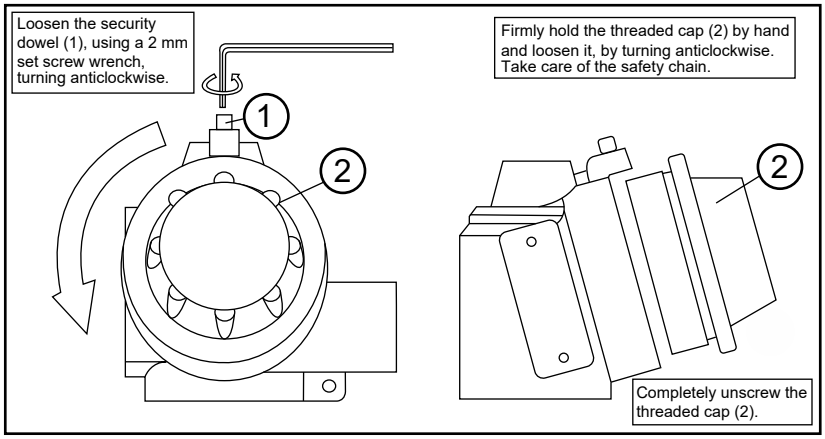
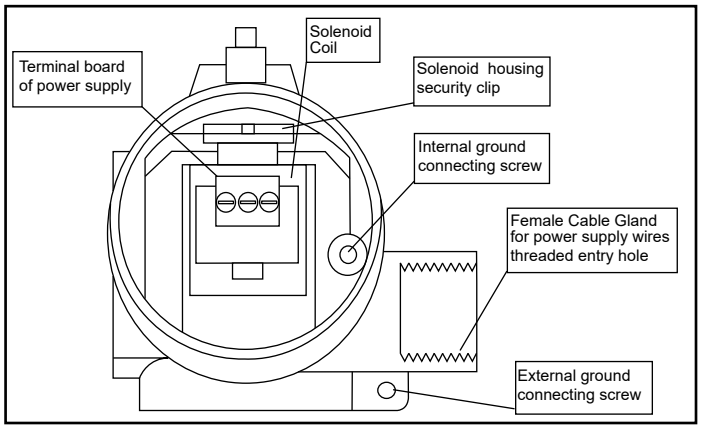


Fig. 1

B

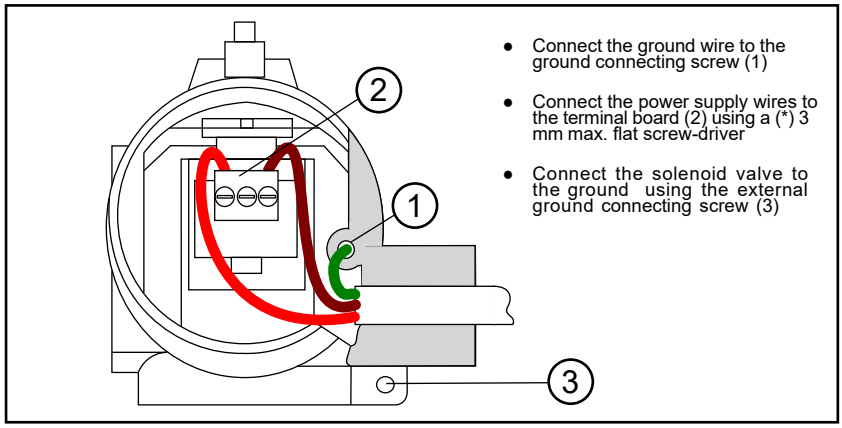


C

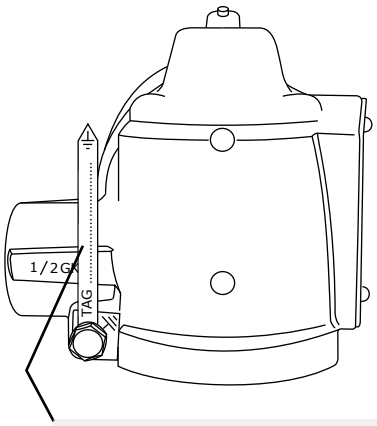


Pipe fittings used for cable entry (Cable, duct, conduit etc) are NOT supplied by the manufacturer.
Installation engineers should ensure that the use of fittings are of the correct diameter and suitable to secure the tightness of the cable used. Where site conditions indicate, cable duct, conduit etc. must be ATEX approved, for a protection degree equal or greater than the protection degree indicated on the rating plate.
The thread type is indicated on the housing:
M20*1.5mm, 1/2"NPT or 1/2"GK

D



- Connect the ground wire to the ground connecting screw (1)
- Connect the power supply wires to the terminal board (2) using a (*) 3 mm max. flat screw-driver
- Connect the solenoid valve to the ground using the external ground connecting screw (3)



Earth Tag. Can be customised with Tag number, part number etc.

Measure Monitor Control is a trading name of Red Dragon Ltd. All rights reserved. e&oe