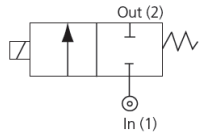


# GB Series: 1/4" to 1" – 2/2 Normally Closed

Specifications	
Function	Normally closed, energise to open 
Body Material (Std)	Aluminium
Flange Tube	Stainless Steel 303
Plunger and top stop	Stainless Steel 430FR
Springs	Stainless Steel 302
Seal Material (Std)	NBR
Connection Type (Std)	BS21
Shading Ring	Copper
Electrical Characteristics	
Coil Voltage DC (=)	12 V, 24 V, 110 V
Coil Voltage AC 50 Hz (~)	24 V, 110 V, 120 V, 230 V
Coil Voltage AC 60 Hz (~)	24 V, 110 V, 120V, 220 V
Voltage Tolerance	+10% or -10%
Duty Cycle	100% ED
Protection Class (Std)	IP65 (BS EN 60529) (plug supplied as standard)
Electrical Connection (Std)	PG9 Din Connector DIN 43650/ISO 4400 (EN 175301-803) Form 'A'
Coil Insulation	Class H (BS EN 60085) 180 °C (E5 Type)
Power Rating	1/4" - 1/2" (19 VA /14 watt) 3/4" - 1" (32 VA / 22 watt) 1/4" - 1" (24 VDC) (14 watt)

## Features and Benefits

- Approved for mains gas safety shut off
- Suitable for automatic burners
- Suitable for fire protection systems
- Ideal for low pressure Natural gas
- Approved to EN161 when fitted with a standard E5 type enclosure
- Compliant with Gas Appliance directive
- Fully ported orifices for high flow
- Zero pressure rated
- Optional pressure test points
- Suitable for 1st, 2nd and 3rd family gases
- Suitable for LPG
- Response time up to 1/2" 15 - 25 ms
- Response time up to 1" 20 - 40 ms
- Panic buttons & electro thermal links available for controlling valve

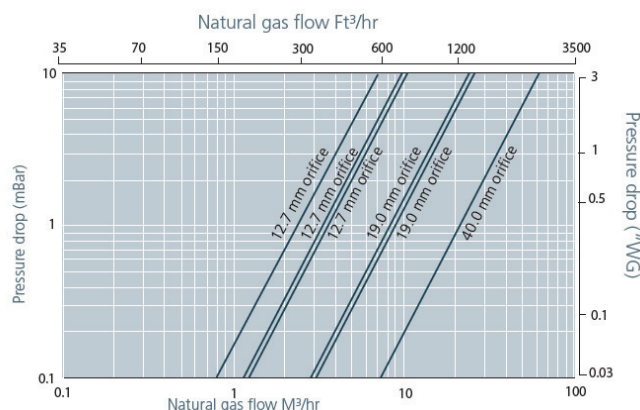


Pipe Size	Cv (gpm)	Kv (m³/h)	OPD (mBar)		P. Max Bar	Orifice (mm)	Weight (kg)
			AC Voltages	DC Voltages			
1/4"	4.2	3.6	0 -140	0 - 50	1	12.70	0.23
3/8"	5.8	5	0 -140	0 - 50		12.70	0.23
1/2"	6.3	5.4	0 -140	0 - 50		12.70	0.23
3/4"	15.0	12.9	0 -100	0 - 50		19.00	0.27
1"	15.7	13.6	0 -100	0 - 50		19.00	0.32

Kv = Flow rate measured with differential pressure at 2.5 mbar

## How to use the flow chart

1. Select the required flow.
2. Note the corresponding pressure drop.
3. Based on where the two points intersect select the most appropriate model.



## Options Available

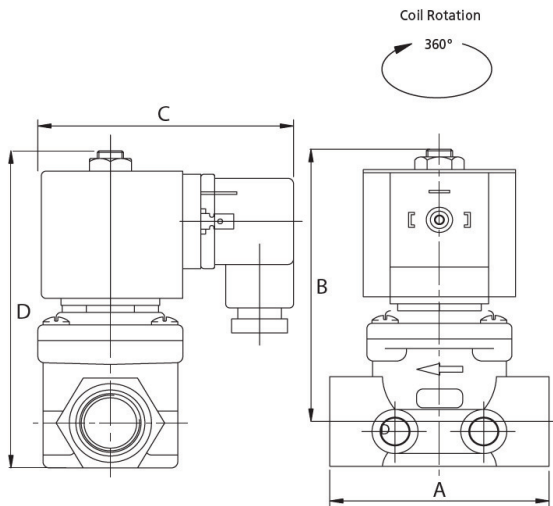
Solenoid Enclosure	
Protection Class	
Exm T5 (IP65) (up to 1/2")	Consult Rotork Midland for product codes

See solenoid enclosures for specific details.

<sup>1</sup> See corrosion reference guide and sealing solutions for material compatibility.

Seal Material <sup>1</sup> and Media Temp. Range	Ambient Temperature Range °C	
	Min	Max
NBR (-10 °C to +80 °C)	0	60

Main Valve Assembly Options
NPT Threads
Stainless steel tagging



Preferred Valve Mounting Options



Dimensions

Pipe Size	A	B	C	D
1/4"	57	87	56	101
3/8"	67	87	56	101
1/2"	67	87	56	101
3/4"	86	90	56	107
1"	106	93	56	115

Dimensions given in mm

Solenoid enclosures



E5 Type enclosure protection class IP65

- External material: Glass reinforced nylon
- Electrical connection: DIN Plug to ISO 4400
- Winding insulation: Class H
- Enclosure: Conforms to IP65 when correct plug gasket is fitted as supplied

Coding chart

Main Valve Assembly

Model	Valve Body Conn. Size	Connection Type	Operation
34	GB	B 1/2"	1 BS21
		C 3/8"	3 NPT
		D 1/2"	
		E 3/4"	
		F 1"	

Body Material	Seals	Style
3 Aluminium	A NBR	1 Standard

Coil options

Enclosure	Voltage / Frequency	Electrical Connection
1 Weather proof IP65	A1 230 V / 50 Hz (19 VA / 14 Watt) 1/4" - 1/2" valves only	1 Din plug 9 mm
	A2 110 V / 50 Hz & 120 V / 50 Hz (19 VA / 14 Watt) 1/4" - 1/2" valves only	
	A8 230 V / 50 Hz (32 VA / 22 Watt) 3/4" - 1" valves only	
	A9 110 V / 50 Hz (32 VA / 22 Watt) 3/4" - 1" valves only	
	B2 24 VDC (14 Watt) 1/4" - 1" valves only	

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Product coding example:

34F11Z3A1-1A81 - GB Series  
 1" BS21, auto operation, aluminium, NBR seals, 230 V / 50 Hz DIN Plug 9 mm.