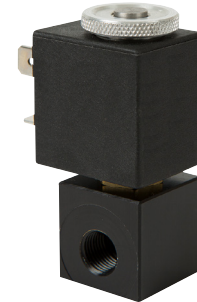


22 mm MINISOL Direct acting solenoid valve

- 2/2, 3/2
- Compact design
- Long life - in excess of 25 Mio. cycles
- High cycle rate of up to 2000 cycles per minute
- Up to 2,4 mm orifice (kv 2,00)



Technical features

Medium:

Air, neutral gases and liquids

Operation:

Direct acting 2-way and 3-way valves, normally closed and normally opened, bi-directional

Operating pressure:

0 ... 40 bar (0 ... 580 psi) maximum

Flow (kv factor):

0,5 ... 2,0 (Cv: 0,03 ... 0,14)

Mounting:

Inline

Orifice:

1,0 ... 2,4 mm (0,04 ... 0,09")

Port size:

G1/8

Response time:

8 ... 15 ms
Response time measured according to ISO 12238

Life time:

25 million cycles

Temperature:

Ambient:

-15 ... +50°C (+5 ... +122°F)

Media:

-15 ... +130°C (+5 ... +266°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Body: Stainless steel, brass

Seal: NBR, FPM, EDPM

Electrical details

Voltage tolerances	-10% ... +15%
Duty cycle	100% E.D.
Insulation class	F (155°C)
Protection class according to EN 60529	IP65 with connector
Electrical connection	Interface according to DIN EN 175301-803, Form B
Coil orientation	Rotable 360°
Coil mounting	M8 x 0,75 mm nut

Following options on request

Alternative configuration for manifold mounting
Pneumatic connection
Voltage
Power consumption
Operating pressure (also vacuum)
Materials
Electrical connections (type of connector & coil orientation)
Coil

Technical data – standard models, G1/8

Symbol	Function	Orifice	Operating pressure	kv *1)	Voltage	Power consumption	Material		Model
		(mm)	(bar)	(l/min)	(V d.c.)	(W)	Body	Seal	
	2/2 NC	1,0	0 ... 40	0,50	24	3,8	Brass	NBR	09-211-101020+AQF
	2/2 NC	1,2	0 ... 25	0,65	24	3,8	Brass	NBR	09-211-102-20+AQF
	2/2 NC	1,6	0 ... 11	1,20	24	3,8	Brass	NBR	09-211-103-20+AQF
	2/2 NC	2,0	0 ... 8	1,60	24	3,8	Brass	NBR	09-211-104-20+AQF
	2/2 NC	2,4	0 ... 6	2,00	24	3,8	Brass	NBR	09-211-105-20+AQF
	2/2 NC	2,4	760 ... 10 ⁻³ TORR	2,00	24	3,8	Brass	NBR	09-211-105-20 ELC VME+AQF
	3/2 NC	1,0	0 ... 10	0,5	24	3,8	Brass	NBR	09-311-101020+AQF
	3/2 NC	1,2	0 ... 7	0,65	24	3,8	Brass	NBR	09-311-102-20+AQF
	3/2 NC	1,6	0 ... 5	1	24	3,8	Brass	NBR	09-311-103-20+AQF
	3/2 NO	1,6	0 ... 5	0,7	24	3,8	Brass	NBR	09-321-103-20+AQF

*1) Cv - Value in [gal/min] = kv x 0,07

Accessories

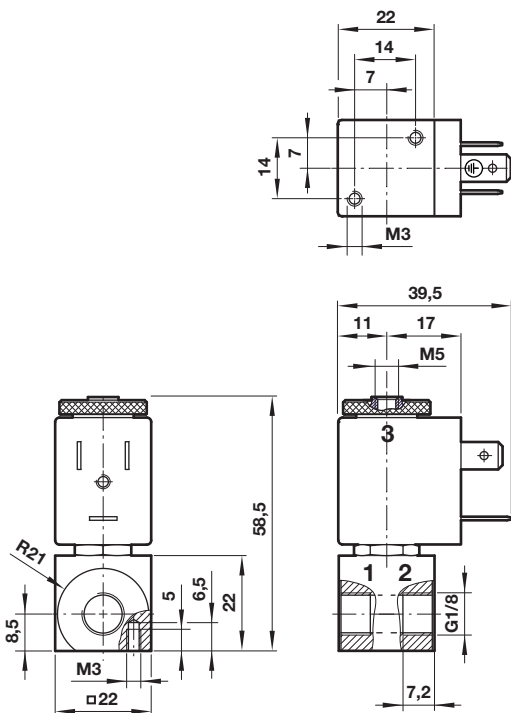
22 mm Industrial standard
2-pole + PE



N060.1075

Dimensions

Dimensions in mm
Projection/first angle



Port identification

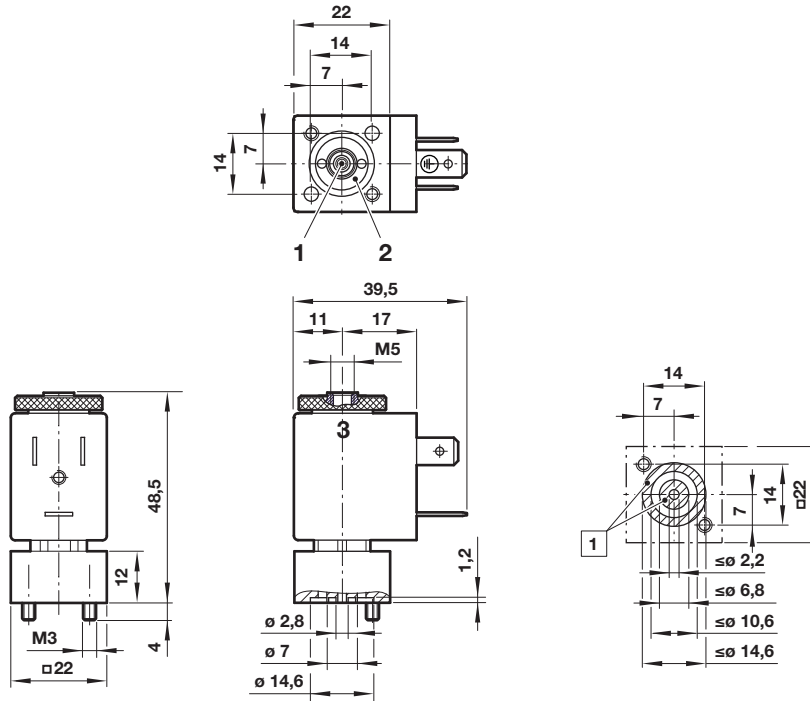
	Ports		
	1	2	3
2/2 NC	A	P	-
3/2 NC	P	A	R
3/2 NO	R	A	P

P = Inlet; A = Outlet; R = Exhaust
Please refer to marking on the valve body for flow direction or port identification.

All solenoids are supplied with mounting screws and gasket.

MINISOL 2/2 NC, 3/2 NC
or 3/2 NO for manifold
mounting on request

Dimensions in mm
Projection/first angle



Port identification

	Ports		
	1	2	3
2/2 NC	A	P	-
3/2 NC	P	A	R
3/2 NO	R	A	P

P = Inlet; A = Outlet; R = Exhaust

Please refer to marking on the valve body for flow direction or port identification.

1 Sealing area

All solenoids are supplied with mounting screws and gasket.

Warning

These products are intended for use in air, neutral gas and liquid systems only. Do not use these products where pressures and temperatures can exceed those listed under »Technical features«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult IMI Precision Engineering, Fluid Automation Systems s.a.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.