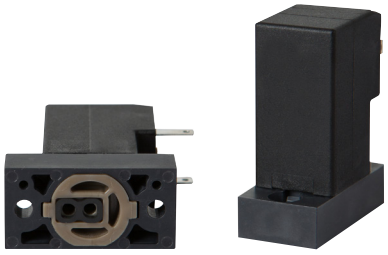
15 mm MICROSOL 2/2 MS
Media separated solenoid valve

- 2/2 NC
  Media separated
  Manifold mounting
- Low internal volume
- Compact design
- High flow to size ratio
- High pressure capability



Technical features

Medium:
Neutral or aggressive gases and liquids

Operation:
Direct acting 2-way media separated valves, normally closed

Operating pressure:
0 ... 10 bar (0 ... 146 psi)
Details below

Flow:
kv: 0,25 ... 0,8 l/min
10 ... 33 l/min at Δp = 2 bar (29 psi) at +20°C (+68°F)

Mounting:
Manifold

Orifice:
0,8 ... 2 mm (0,031" ... 0,079")

Weight:
30 g

Ambient/media temperature:
+5 ... +50°C (+41 ... +122°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:
Body in contact with media:
PVDF, PEEK
Seal and diaphragm material in contact with media:
FPM, FFPM, EPDM

Electrical details

Voltage	24 V d.c.
Voltage range	–10% ... +15%
Power consumption	2 W
Electrical insulation	1500 V a.c.
Duty cycle	100% E.D.
Insulation class	F (155°C)
Protection class according to EN 60529	IP51 with connector

Following options on request

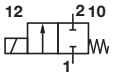
Pneumatic configuration (latching)
Operating pressure (also vacuum)
Materials
Voltage
Pneumatic port allocation
Power consumption
Electrical connections (300 mm flying leads, connector types)
Coil orientation
Protection class

Embedded electronics options

Integrated pulse width modulation (PWM)
Reverse polarity protection

File code: LS_DS_MICROSOL-2.2-MS_en/07/24

Technical data – standard models

Symbol	Orifice	Operating pressure		Back pressure		kv *1)	Seal Material	Model
	(mm)	(bar)	(psi)	(bar)	(psi)	(l/min)		
	0,8	0 ... 10	0 ... 145	0 ... 1,8	0 ... 26	0,25	PVDF/FPM	01-213E-01-51+EHP+AYZ
	0,8	0 ... 10	0 ... 145	0 ... 1,8	0 ... 26	0,25	PVDF/EPDM	01-213E-01-55+EHP+AYZ
	0,8	0 ... 6	0 ... 87	0 ... 0,5	0 ... 7,2	0,25	PEEK/FFPM	01-213E-01-B6++AYZ
	1,2	0 ... 6	0 ... 87	0 ... 1,8	0 ... 26	0,55	PVDF/FPM	01-213E-02-51+EHP+AYZ
	1,2	0 ... 6	0 ... 87	0 ... 1,8	0 ... 26	0,55	PVDF/EPDM	01-213E-02-55+EHP+AYZ
	1,2	0 ... 2,5	0 ... 36	0 ... 0,5	0 ... 7,2	0,55	PEEK/FFPM	01-213E-02-B6++AYZ
	1,6	0 ... 4,5	0 ... 65	0 ... 1,6	0 ... 23	0,65	PVDF/FPM	01-213E-03-51+EHP+AYZ
	1,6	0 ... 4,5	0 ... 65	0 ... 1,6	0 ... 23	0,65	PVDF/EPDM	01-213E-03-55+EHP+AYZ
	1,6	0 ... 1,8	0 ... 26	0 ... 0,5	0 ... 7,2	0,65	PEEK/FFPM	01-213E-03-B6++AYZ
	2,0	0 ... 3,5	0 ... 50	0 ... 1,6	0 ... 23	0,80	PVDF/FPM	01-213E-04-51+EHP+AYZ
	2,0	0 ... 3,5	0 ... 50	0 ... 1,6	0 ... 23	0,80	PVDF/EPDM	01-213E-04-55+EHP+AYZ
	2,0	0 ... 1,0	0 ... 14	0	0	0,80	PEEK/FFPM	01-213E-04-B6++AYZ

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

Accessories

Mounting plate with M5 thread
PVDF — 1 position

S010.1998

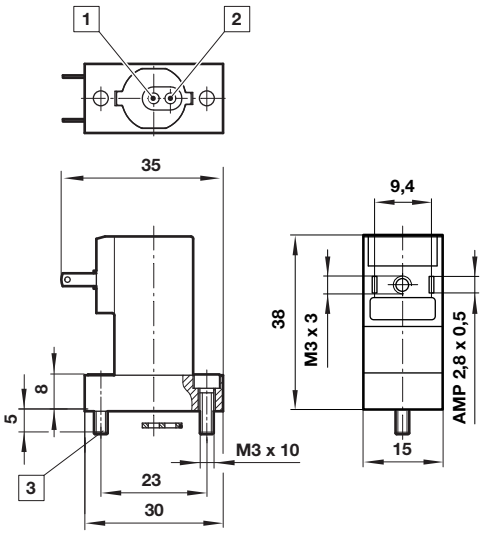
Electrical connection

Electrical connector MPM 9,4 mm industry standard (C192) to mate AMP spade 2,8 x 0,5 mm

N050.1456

Dimensions

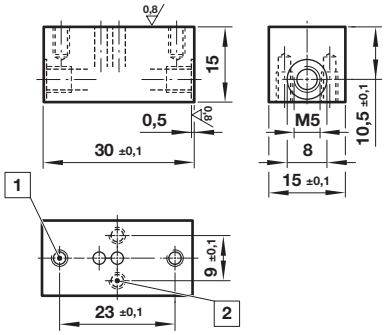
Dimensions in mm
Projection/first angle



1 Inlet ø 2 mm
2 Outlet ø 2,4 mm
3 Mounting screw

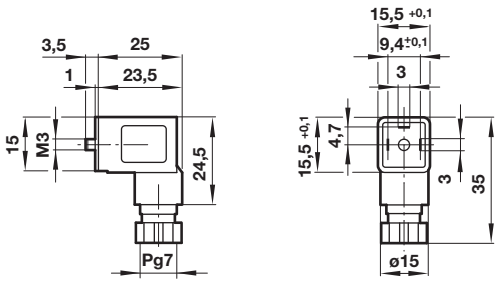
All solenoids are supplied with mounting screws and gasket.

Mounting plate
Model: S010.1998



1 Valve mount threads
2 Threads for mounting screws – M3 x 6 mm deep

Electrical connector
Model: N050.1456



Warning

These products are intended for use in neutral or aggressive gases and liquids 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 FAS.

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.