

- > **3/2 UNI**  
Media separated,  
Manifold mounting
- > **Long life - in excess of 10 Mio. cycles**
- > **Very compact design**
- > **Low internal volume,**  
virtually no unswept  
volume
- > **Low power**  
consumption 4/0,4 W
- > **Large pressure rang**



### Technical features

#### Medium:

Neutral or aggressive gases and liquids

#### Operation:

Direct acting 3-way media separated valves

#### Operating pressure:

Orifice 1.2 mm: -0.95...4.5 bar (-13.8...65.2 psi)

Orifice 1.6 mm: -0.95...2.2 bar (-13.8...31.9 psi)

#### Flow:

kv: 0.6 l/min; flow: 24 l/min (orifice 1.2 mm, at  $\Delta p = 2$  bar, 20°C (+68°F))

kv: 0.8 l/min; flow: 33 l/min (orifice 1.6 mm, at  $\Delta p = 2$  bar, 20°C (+68°F))

#### Mounting:

Manifold

#### Orifice:

1,2 and 1,6 mm

#### Life expectancy:

≥10 Mio. cycles

#### Weight:

30 g (1.06 lbs)

#### 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:

PEEK

Seal and diaphragm material in

contact with media:

FPM, FFPM, EPDM

### Electrical details

<b>Voltage tolerance:</b>	±5%
<b>Voltage:</b>	12 and 24 V.d.c (>60ms)
<b>Power consumption:</b>	4/0,4W
<b>Electrical connection</b>	AMP 2P
<b>Electrical insulation:</b>	1500 V.a.c.
<b>Insulation class:</b>	F (155°C)
<b>Protection class:</b>	IP51
<b>Cycle rate:</b>	< 4Hz

Integrated pulse width modulation (PWM)

Revert polarity detection

### Following options on request

Operating pressure
Materials
Manual override
Coil orientation
Voltage
Electrical connection (leads)

### Embedded electronics options

Without integrated pulse width modulation

### Technical data - standard models

Symbol	Orifice	Operating pressure		Back pressure max. *1)		kv *2)	Voltage	Power consumption *3)	Seal / Diaphragm Material	Model
	(mm)	(bar)	(psi)	(bar)	(psi)	(l/min)	[V d.c.]	[W]		
	1,6	-0.95...2,2	-13,8 ...31,9	1,10	15,95	0,8	12	4/0,4	FPM	01-333EF03-B1+23112+AXA
	1,6	-0.95...2,2	-13,8 ...31,9	1,10	15,95	0,8	12	4/0,4	EPDM	01-333EF03-B5+23112+AXA
	1,6	-0.95...2,2	-13,8 ...31,9	1,10	15,95	0,8	12	4/0,4	FFPM	01-333EF03-B6+23112+AXA
	1,6	-0.95...2,2	-13,8 ...31,9	1,10	15,95	0,8	24	4/0,4	FPM	01-333EF03-B1+23112+AZU
	1,6	-0.95...2,2	-13,8 ...31,9	1,10	15,95	0,8	24	4/0,4	EPDM	01-333EF03-B5+23112+AZU
	1,6	-0.95...2,2	-13,8 ...31,9	1,10	15,95	0,8	24	4/0,4	FFPM	01-333EF03-B6+23112+AZU

\*1) Maximum back pressure during commutation: 50% of operating pressure

\*2) Cv = 0,07 kv

\*3) Power consumption: "boosting power during approx 50 ms" / "holding power"

**Accessories**

Mounting manifold with M5 threads - 1 position, PEEK



S010.2259

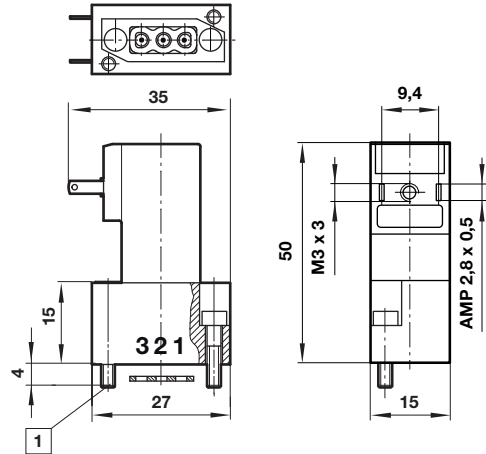
**Electrical connection**

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

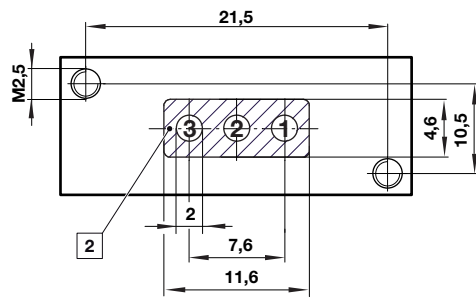


N050.1456

**Dimensions**



**Connecting area**



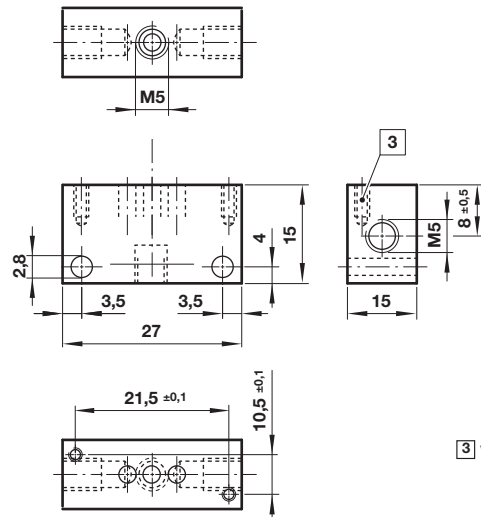
Dimensions shown in mm  
Projection/First angle



- 1 Mounting screw
- 2 Sealing area

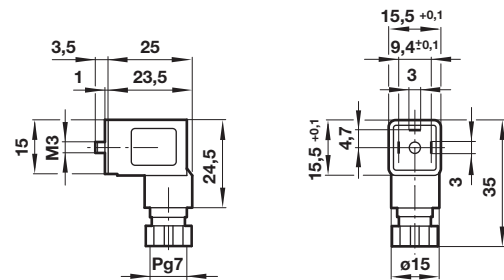
All solenoids are supplied with mounting screws and gasket.

**Mounting M5 manifold  
Model: S010.2259**



- 3 Valve mount threads

**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.