

- > 2/2 NC Media separated Cartridge or manifold mounting
- > Low internal volume, virtually no unswept volume
- > Very compact design (ø 8 x 21 mm)
- > Low power consumption (0,5 W)
- > Long life up to 30 million cycles
- > 100% ED operation up to 50°C fluid temperature







Medium: Neutral or aggressive gases and liquids **Operation:** Direct acting 2-way valves,

normally closed **Operating pressure:** 0 ... 2,1 bar (0 ... 30 psi) at port 1

0 ... 0,2 bar (0 ... 2,9 psi) at port 2 0,5 bar (7,2 psi) maximum back pressure at port 2

EI

Electrical details		I
Voltage:	12 & 24 V d.c.	
Rating:	100 % E.D.	
Voltage tolerance	± 10%	
Power consumption:	0.5 [W]	
Electrical insulation	500 V a.c.	
Insulation class	F (155°C)	

Mounting:

Size:

8 mm

Orifice:

0,8 mm

< 15 ms

Cartridge or manifold

Response time:

Response time measured

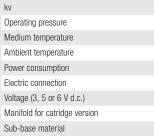
according to ISO 12238

Life expectancy: ≥30 Mio. cycles Ambient/media temperature: -10 ... +50 °C (+14 ... +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 Seat seals: EPDM or FFPM

Following options on request



Pulse width modulation (PWM) control

A PWM can be used to control the valve and should be set as follows:

	Definition	Value to be applied
Hit voltage	Voltage used for he valve to commute	Valve nominal voltage
Holding voltage	Voltage applied to he valve after commutation	Set duty cycle to guarantee specified holding voltage. 50% of nominal voltage can be used if no value specified.
Hit time	Maximum time required to ensure full valve commutation	40 ms at T > 15 °C *1)
PWM frequency		~20 kHz

*1) Please contact us for application outside of those conditions.





Technical data - standard models

Symbol	Mounting op- tion	Voltage (V d.c.)	Seal Material	Drawing No.	Model
$12 \qquad 210$	Manifold	12	EPDM	2	14-213EM01-B5+AWF
	Manifold	12	FFPM	2	14-213EM01-B6+AWF
	Cartridge	12	EPDM	1	14-213CM01-B5+AWF
	Cartridge	12	FFPM	1	14-213CM01-B6+AWF
	Manifold	24	EPDM	2	14-213EM01-B5+AYJ
	Manifold	24	FFPM	2	14-213EM01-B6+AYJ
	Cartridge	24	EPDM	1	14-213CM01-B5+AYJ
	Manifold	24	FFPM	1	14-213CM01-B6+AYJ

Electrical connection

S141.0466

300 mm flying leads mounted with 4 mm (or 2 x 2 mm) pitch SIL socket housing (Harwin M22-3010300)

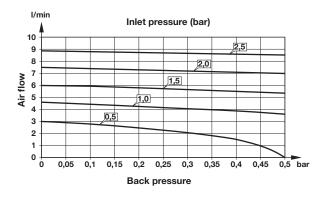
Accessories



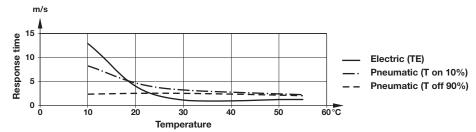
S140.0361 (M5 ports) S140.0362 (1/4-28 UNF ports)

*1) Two valve mounting screws are in scope of delivery

Typically flow rate vs back pressure



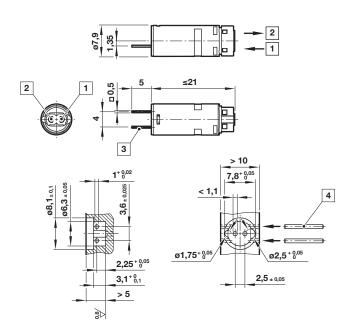
Typically response time vs temperature



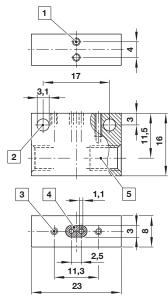


Dimensions Cartridge valve





Manifold Model: S140.0361 (M5); S140.0362 (1/4-28 UNF) (PEEK)

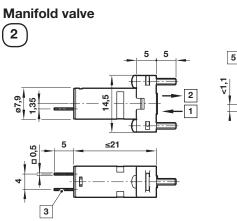


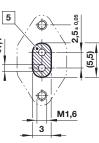
Warning

These products are intended for use in industrial compressed air, neutral or aggressive gases 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.





Dimensions shown in mm Projection/First angle

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1 Inlet port

2 Outlet port

3 Do not weld

Pins ø 1 h8 x >10 (ISO 2338) not in scope of delivery
Sealing area

All valves are supplied with gasket.

Mounting screws are in scope of delivery for manifold valve as well.

1 Threads for mounting screws - M2 x 5 mm deep

2 Mounting hole

3 Threads to fix valve in position - M1,6 x 6 mm deep

4 Sealing surface

5 Port size M5 or 1/4-28 UNF

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.