

- > 2/2, 3/2; Manifold mounting
- > Compact design
- > High flow rate
- In excess of 100 Mio. cycle rate
- > Up to 3,6 mm orifice









Technical features

Medium:

Air, oxygen, neutral gases (10 % to 95 % humidity, non condensing), 40 μ m filtered

Operation:

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

Operating pressure:

see table below page 2

Flow:

6 ... 120 l/min at 2 bar (29 psi) at +20 $^{\circ}$ C (+68 $^{\circ}$ F)

kv factor:

0,15 ... 3 (Cv: 0.01 ... 0.2)

Mounting:

Manifold

Orifice:

2/2 way valves 0,5 3,6 mm (0.02 ... 0.14") 3/2 way valves 0,5 1,5 mm (0.02 ... 0.06")

Response time:

10 ... 15 ms

Response time measured according to ISO 12238

Life expectancy:

≥100 million cycles (except Hit & Hold valves)

Weight:

30 g (0.07 lbs)

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: PPS

Seat seals: NBR, FPM Internal parts: Stainless steel,

PA 6/6

Led signalization

Electrical details

Voltage:	24 V d.c.
Voltage range:	-10 % +15 % @ 100 % duty cycle
Electrical insulation:	1500 V a.c.
Insulation class:	F (155 °C)
Protection class according to EN 60529:	IP 51 with connector

Following options on request Embedded electronics options

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						

Integrated pulse width modulation (PWM) Reverse polarity protection





Technical data - standard models

Symbol	Operation	Orifice	rifice Operating pressure		kv *1)	Voltage *3)	Power consumption	Seal Material	Drawing No.	Model
			(bar)	(psi)	(I/min)	(V d.c.)	(W) *2)			
40 040	2/2 NC	0,5	0 15	0 218	0,15	24	1	NBR	1	01-211P200-H0+13111+AYV
	(Flow direction from 1 » 2)	0,8	0 10	0 145	0,4	24	1	NBR	1	01-211P201-H0+13111+AYV
	110111 1 " 2)	1,2	0 10	0 145	0,75	24	2	NBR	1	01-211P202-H0+63111+AYZ
		1,6	0 6	0 87	1,15	24	2	NBR	1	01-211P203-H0+63111+AYZ
		2	0 4	0 58	1,3	24	2	NBR	1	01-211P204-H0+63111+AYZ
	2/2 NC	3,6	0 6	0 87	3	24	12/0,5	NBR	2	01-211P-036H0+63111+AZN
	(Flow direction from 2 » 1)									
	110111 2 " 1)									
12 210 2/	2/2 NO ECI *4)	0,5	0 16	0 232	0,15	24	2	NBR	1	01-221P200-H0+631A1+AYZ
		1,2	0 10	0 145	0,75	24	2	NBR	1	01-221P202-H0+631A1+AYZ
		2	0 6	0 145	1,4	24	2	NBR	1	01-221P204-H0+631A1+AYZ
12 10 W	3/2 NC	0,8	0 8	0 116	0,28	24	1	NBR	3	01-311P101-H0+13111+AYV
		1,1	0 10	0 145	0,42	24	2	NBR	3	01-311P1011H0+63111+AYZ
		1,5	0 6	0 87	0,55	24	2	NBR	3	01-311P1015H0+63111+AYZ
12 2 10 W	3/2 NO ECI *4)	0,8	0 10	0 145	0,28	24	2	NBR	3	01-321P101-H0+631A1+AYZ
		1,1	0 6	0 87	0,42	24	2	NBR	3	01-321P1011H0+631A1+AYZ
		1,5	0 3	0 102	0,55	24	2	NBR	3	01-321P1015H0+631A1+AYZ
12 10 W	3/2 UNI	0,7	0 6	0 87	0,24	24	2	NBR	3	01-331P1070H0+63111+AYZ
		1	0 3,5	0 50	0,36	24	2	NBR	3	01-331P1010H0+63111+AYZ
		1,5	0 2	0 29	0,55	24	2	NBR	3	01-331P1015H0+63111+AYZ

^{*1)} Cv - Value in [gal/min] = kv x 0.07; kv for 3/2 way valves represents flow value between ports 2 and 3

Accessories



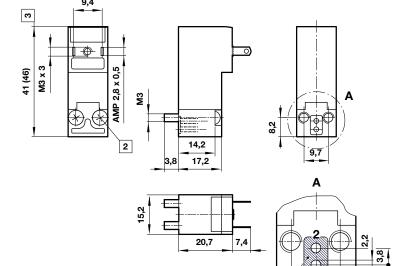
Electrical connection



Dimensions



2 ways standard



1 Sealing area

2 The recommended mounting screw tightening torque is 0,6 Nm.

 $\begin{cal} \hline \end{cal}$ Value in () for ECI version

All solenoids are supplied with mounting screws and gasket.

Dimensions shown in mm Projection/First angle



1

^{*2)} Valve models with 2 power consumption values are equipped with ,Hit & Hold' power saving electronic

^{*3)} Valve models available with different nominal voltages

^{*4)} ECI - Push type version



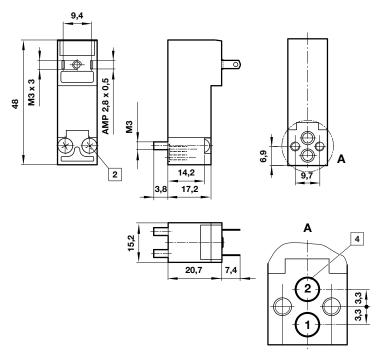
Dimensions

2 ways 3,6 mm orifice

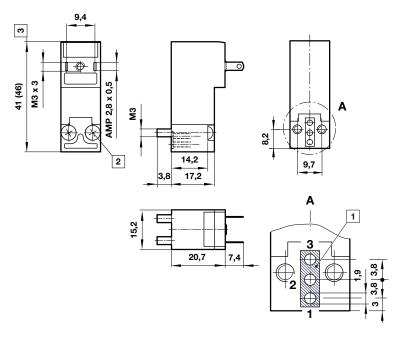
Dimensions shown in mm Projection/First angle







3 ways standard



- 1 Sealing area
- $\begin{tabular}{c} \hline {f 2} \\ \hline {\c The recommended mounting screw tightening torque is 0,6 Nm.} \\ \hline \end{tabular}$
- 4 '0' Rings Ø 4 x 1

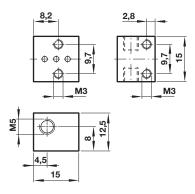
All solenoids are supplied with mounting screws and gasket or 'O' Rings.



Dimensions

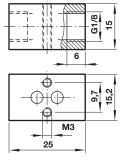
Mounting plate Model: S050.1010

(Aluminium)

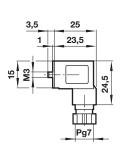


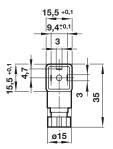
Mounting plate Model: S010.2248 (Aluminium) Dimensions shown in mm Projection/First angle





Electrical connector Model: N050.1456





Warning

These products are intended for use in air, oxygen and neutral gas 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 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.