

- > 2/2, 3/2; Manifold mounting
- > Compact design
- > Easy integration
- > Long life in excess of 25 Mio. cycles
- > Up to 2000 cycles per minute
- > Up to 1,8 mm orifice





# **Technical features**

Medium:

Air, neutral gases and liquids Operation:

Direct acting 2-way and 3-way valves, normally closed and normally opened, universal, with manual override

Operating pressure:

0 ...15 bar

Flow (kv factor):

0,6 ... 1,0 (Cv: 0.04 ... 0.06)

# Mounting:

Flange mount Orifice:

1,2 .... 1,8 mm (0.05 ... 0.07")

Response time:

8 ... 15 ms

Response time measured according to ISO 12238

Life time:

25 million cycles

# Ambient/media temperature:

-15 ... +50 °C (+5 ... +122°F) Air supply must be dry enough to avoid ice formation at temperatures below +2 °C (+35°F).

#### Materials:

Body: brass, PA Seal: NBR, FPM, EDPM

# **Electrical details**

Voltage tolerances:	-10 % +15 %
Duty cycle	100% ED
Insulation class:	F (155 °C)
Protection class according to EN 60529:	IP 65 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

Pneumatic configuration			
Voltage			
Operating pressure (also vacuum)			
Materials			
Power consumption			
Electrical connections (type of connector & coil orientation)			

# Technical data - standard models

Symbol	Function	Orifice	Operating pressure	1	kv *1)	Voltage	Power consumption	Material Body	Seal	Model
		(mm)	(bar)	(psi)	(l/min)	(V d.c.)	(W)	•		
12 ,210	2/2 NC	1,2	0 15	0 217	0,60	24	3,8	PA	NBR	09-211I-02-30+AQF
7 T T	2/2 NC	1,6	0 10	0 145	0,80	24	3,8	PA	NBR	09-211I-03-30+AQF
1	2/2 NC	1,8	0 8	0 116	1,00	24	3,8	PA	NBR	09-211I-01830+AQF
12  210	2/2 NO	1,8	0 12	0 174	0,75	24	3,8	PA	NBR	09-221I-01830+AQF
T T W										
1										
	3/2 NC	1,2	0 15	0 217	0,60	24	3,8	PA	NBR	09-311I-02-30+AQF
12 2 10	3/2 NC	1,4	0 12	0 174	0,70	24	3,8	PA	NBR	09-311I-01430+AQF
<u> </u>	3/2 NC	1,6	0 10	0 145	0,80	24	3,8	PA	NBR	09-311I-03-30+AQF
. •	3/2 NC	1,8	0 8	0 116	1,00	24	3,8	PA	NBR	09-311I-01830+AQF
12 <sub> </sub> 2 10	3/2 NO	1,2	0 10	0 145	0,60	24	3,8	PA	NBR	09-321I-02-30+AQF
	3/2 NO	1,4	0 7	0 101	0,75	24	3,8	PA	NBR	09-321I-01430+AQF
1 3	3/2 NO	1,8	0 6	0 87	0,85	24	3,8	PA	NBR	09-321I-01830+AQF
1212_10	3/2 NC	1,2	0 8	0 116	0,60	24	3,8	PA	NBR	09-331I-02-30+AQF
T TTW	3/2 NC	1,8	0 4	0 58	0,85	24	3,8	PA	NBR	09-331I-01830+AQF
1 3										

<sup>\*1)</sup> Cv - Value in [gal/min] = kv x 0.07

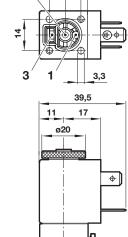


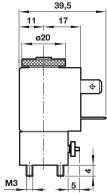


# **Accessories**



# **Valve**

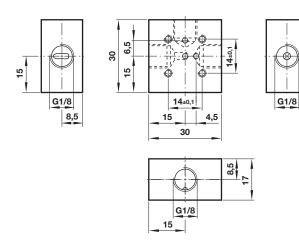




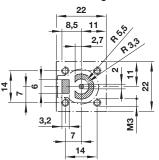
# Mounting plate

**22** 

29 50,5



# Manifold fitting



# Port identification for

	Ports 1	2	3
2/2 NC	А	Р	-
2/2 NO	Р	-	А
3/2 NC	А	Р	R
3/2 NO	А	R	Р
3/2 UNI (SEL)	Р	A <sub>1</sub>	$A_2$
3/2 UNI (MIX)	А	$P_1$	$P_2$

P, P<sub>1</sub>, P<sub>2</sub> = Inlet; A, A<sub>1</sub>, A<sub>2</sub> = 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.

# Dimensions shown in mm Projection/First angle



# 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 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.