

- > **Port size: 1/4"**
(ISO G/NPT)
- > **Working from 0 bar up**
- > **Short switching times**
- > **Suited for fine vacuum**
down to $1,33 \times 10^{-2}$ mbar
- > **For a.c. solenoid systems with integrated rectifier (40 ... 60 Hz)**
- > **Variable valve solenoid combination**



Technical features

Medium:

For neutral gaseous and liquid fluids (with contaminated fluids, upstream installation of a dirt trap is recommended)

Operation:

Direct solenoid operated poppet valve

Operating pressure:

0 ... 18 bar (0 ... 261 psi)

Orifice:

2 ... 5 mm

Port size:

G1/4, 1/4 NPT

Flow direction:

Depending on solenoid system fixed or optional

Mounting position:

Optional, preferably with solenoid on top

Ambient/Media temperature:

NBR:

-25 ... +80°C (-13 ... +176°F)

FPM:

-10...+120°C (+14 ... +248°F)

Water +95°C (+203°F)

EDPM:

-40... +140°C (-40 ... +284°F)

FFPM:

-10...+140°C (+14 ... +284°F)

Depending on solenoid system and seal materials.

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

Material:

Housing: brass 2.0401 (Ms 58)

Seals: NBR, others see option selector

Inner parts:

stainless steel 1.4104 (430 F)

brass 2.0401 (Ms 58)

Further versions

Seat seal FPM, EPDM, FFPM; assembled oil and grease-free

Flow conversion:

Cv US Gallon/min (water) =

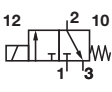
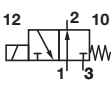
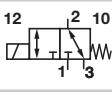
l/min (air) x 0,001

Kv m³/h (water) =

l/min (air) x 0,000906

Technical data

Housing: Brass, Seals: NBR -25 ... +80°C (-13 ... +176°F)

Symbol	Port size	Orifice (mm)	Flow (l/min)	Operating pressure (bar)	Operating pressure (psi)	Weight (kg)	Weight (lbs)	Dimension No.	Solenoid group	Model *1)
	G 1/4	2	120	0 ... 10	0 ... 145	0,32	0.7	1	13B	9600210
	1/4 NPT	2	120	0 ... 10	0 ... 145	0,32	0.7	1	13B	9603210
	G 1/4	2	120	0 ... 18	0 ... 261	0,52	1.14	1	13D	9600240
	G 1/4	3	200	0 ... 6	0 ... 87	0,32	0.7	1	13C	9600320
	1/4 NPT	3	200	0 ... 6	0 ... 87	0,32	0.7	1	13C	9603320
	G 1/4	3	200	0 ... 14	0 ... 203	0,52	1.14	1	13D	9600340
	1/4 NPT	3	200	0 ... 14	0 ... 203	0,52	1.14	1	13D	9603340
	G 1/4	4	350	0 ... 8	0 ... 116	0,52	1.14	2	16C	9601430
	1/4 NPT	4	350	0 ... 8	0 ... 116	0,52	1.14	2	16C	9604430
	G 1/4	4	350	0 ... 10	0 ... 145	0,52	1.14	1	16D	9601440
	G 1/4	5	450	0 ... 7	0 ... 101	0,52	1.14	2	16D	9601540
	G 1/4	2	100	0 ... 9	0 ... 130	0,5	1.1	3	13B	9602210
	1/4 NPT	2	100	0 ... 9	0 ... 130	0,5	1.1	3	13B	9605210
	G 1/4	3	160	0 ... 9	0 ... 130	0,7	1.54	3	13D	9602340
	1/4 NPT	3	160	0 ... 9	0 ... 130	0,7	1.54	3	13D	9605340
	G 1/4	4	300	0 ... 6	0 ... 87	0,7	1.54	3	16D	9602440
	1/4 NPT	4	300	0 ... 6	0 ... 87	0,7	1.54	3	16D	9605440
	G 1/4	2	120	0 ... 7	0 ... 101	0,32	0.7	1	13D	9600210
	1/4 NPT	2	120	0 ... 7	0 ... 101	0,32	0.7	1	13D	9603210

*1) When ordering please indicate solenoid, voltage and current type (frequency).

Option selector

Orifice (mm)	Substitute
2	2
3	3
4	4
5	5
Material seat seal	Substitute
NBR	0
EDPM	1
FPM	2
FFPM	4

960X**X** ** ** ** ** ** ** ** ** ** **

Voltage	Substitute
24 V d.c.	02400
230 V a.c.	23050
Solenoid	Substitute
See solenoid table	