2

Directly operated proportional valves Series AP



2/2-way proportional valves, NC Size 16 - 22 mm





- » Available in two sizes: 16 and 22 mm
- » PWM or current operation
- » Open loop flow control

Series AP directly operated 2/2-way proportional solenoid valves, NC, with nominal diameters range from 0.8 to 2.4 mm, can be used where an open loop flow control is required, with gas mixtures, to control free flows or blows, or emptying chambers using vacuum.

Thanks to the use of standard Camozzi solenoids suitable to for ED at 100%, also the Series AP valves can work according to ED 100%.

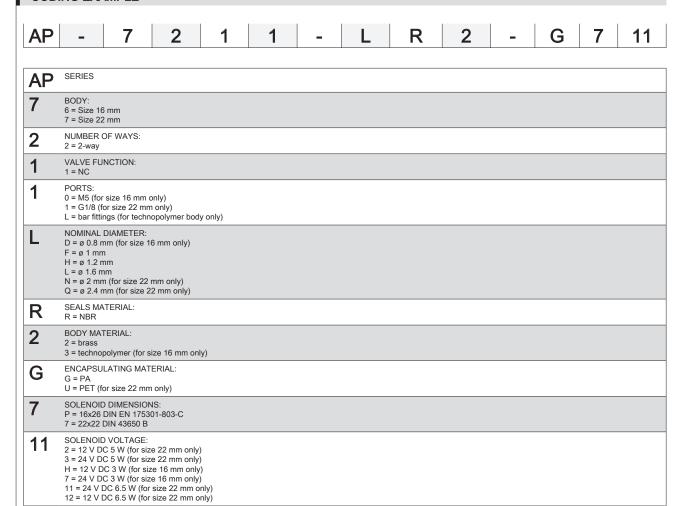
The proportional valves Series AP have been manufactured to optimize and reduce friction and stick-slip effects. The output flow is proportional to the PWM or current control signal. As they can work also in vacuum, a minimum working pressure is not required.

GENERAL DATA Valve functions 2/2 NC Construction proportional directly operated Materials body = brass seals = NBR M5 - G1/8 Ports Mounting in every position 0 ÷ 60°C Working temperature Maximum working pressure see table Nominal flow (Qn - Kv) see table Nominal diameter (ø) see table Fluid inert gas Hysteresis 22 mm size < 5% 16 mm size < 5% Repeatibility 16 mm size < 2% 22 mm size < 1% Sensibility 16 mm size < 2% 22 mm size < 1%

While choosing the valve characteristics and in order to reach the highest performances, it is important to know that there must be a pressure difference of 30% at least between the inlet and the outlet. For example: inlet P 10 bar - optimum outlet P from 7 to 0 bar.

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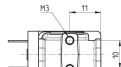
New

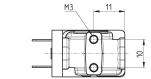
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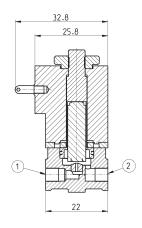


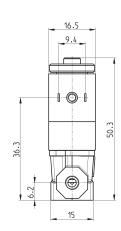
Proportional valves Series AP - Size 16 mm

For connectors see section 2/1.20.









New



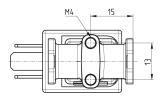
*	choose	the	desired	voltage
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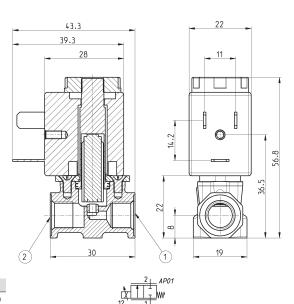
Mod.	Port 1	Port 2	Function	Orifice ø (mm)	Q (l/min)	Kv (m³/h)	P Max (bar)
AP-6210-DR2-GP*	M5	M5	2/2 NC	0.8	26.4	0.4	10
AP-6210-FR2-GP*	M5	M5	2/2 NC	1	33.0	0.5	8
AP-6210-HR2-GP*	M5	M5	2/2 NC	1.2	42.9	0.65	6
AP-6210-LR2-GP*	M5	M5	2/2 NC	1.6	79.2	1.2	4

Proportional valves Series AP - Size 22 mm

For connectors see section 2/2.35.







Mod.	Port 1	Port 2	Function	Orifice ø (mm)	Q (I/min)	Kv (m³/h)	P Max (bar)
AP-7211-FR2-U7*	G1/8	G1/8	2/2 NC	1	33.0	0.5	10
AP-7211-HR2-U7*	G1/8	G1/8	2/2 NC	1.2	42.9	0.65	8
AP-7211-LR2-U7*	G1/8	G1/8	2/2 NC	1.6	66.0	1.0	6
AP-7211-NR2-U7*	G1/8	G1/8	2/2 NC	2	105.6	1.6	5
AP-7211-QR2-U7*	G1/8	G1/8	2/2 NC	2.4	132.0	2.0	4

^{*} choose the desired voltage