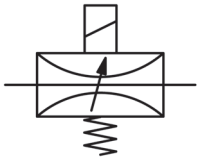
Miniature Piezo Proportional Flow Valve PV202

Description	The miniature flow valve is highly reliable and combines precise control of flow rate with compact design and only 80 g weight. It can be used for vacuum or pressure up to 12 bar. Plug amplifier required.
Media	50 µm filtered compressed air, vacuum or non-corrosive gases
Plug amplifier	Conversion of the analogue signal into a pulse-wide modulated current. Supply voltage: 24 V DC, max. 1.1 A — Adjustment: zero point and range Switchable signal: 0…10 V, 0…20 mA, 4…20 mA — Time ramp: 0.1 to 3 s selectable Close function: < 2% of max. signal — Hum frequency: 40 to 700 Hz selectable
Power consumption	< 170 mA, i.e. < 4 W, with plug amplifier additional 0.8 W own consumption
Electrical connector	plug, contact gap 9.4 mm, 3-pin, with coupling socket (Pg 7P)
Operating pressure	see chart, max. 12 bar — **Life cycle** > 100 million cycles
Repeatability	< 3% FS — **Linearity** < 8% FS
Response sensitivity	< 2% FS — **Hysteresis** < 5% FS
Polarity	any for valve — **Protection class** IP 65 with coupling socket
Mounting position	any — **Temperature range** 0 °C to 60 °C / 32 °F to 140 °F
Material	Body: brass — Elastomer: NBR/Buna Inner valve: stainless steel and brass — Manifold: brass (M5), zinc die-cast (G⅛), polyamide (Ø4)



DN 0.8 to 2.0
compressed air or gases

Description	Dimensions A mm	B mm	C mm	K_v value (m³/h)	Flow rate l/min*1	Operating pressure max. bar	Nominal size DN	Order number
Proportional flow valve flangeable, w/o manifold block, with coupling socket, for compressed air, 24 V DC, direct control, w/o amplifier								**PV202**
NC	15	48	53	0.01	0…11	12	0.8	**PV202-008**
				0.02	0…22	7	1.2	**PV202-012**
				0.025	0…22	4	1.6	**PV202-016**
				0.045	0…28	2.5	2.0	**PV202-020**

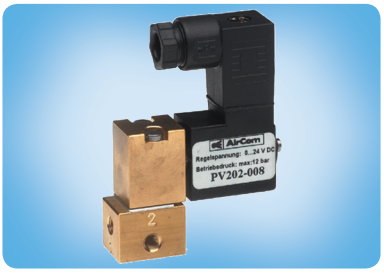
PV202

Special options, add the appropriate letter

12 V DC	supply voltage	PV202-0. .**V**

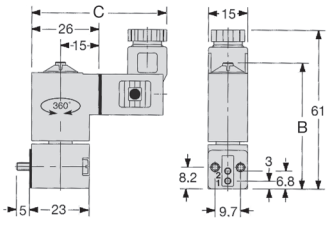
Accessories, enclosed

plug amplifier		24 V DC, switchable 0…10 V, 0…20 mA, 4…20 mA	**PVY-05**
manifold block	**M5**		**AP-01**
	G⅛		**AP-02**
	Ø4		**AP-03**
in-line manifold	**Ø4**		**AP-04**
	G⅛		**AP-05**

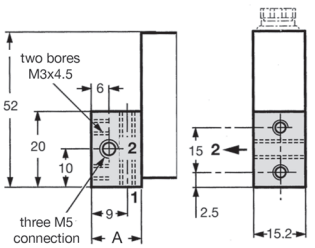


PV202
accessory: manifold block M5

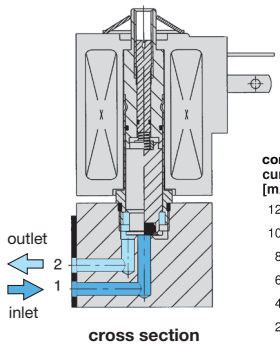
PVY-05



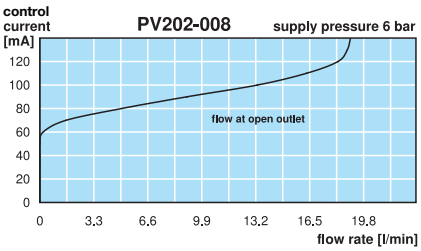
PV202

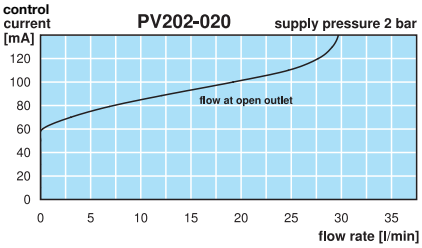


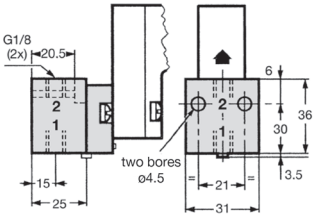
AP-01



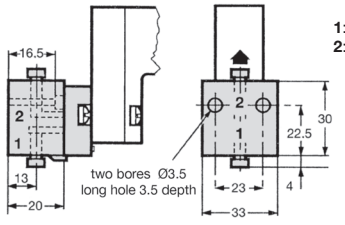
cross section







AP-02



AP-03

1: inlet
2: outlet

*1 at supply pressure 6 bar for DN 0.8 and DN 1.2, 4 bar for DN 1.6, 2 bar for DN 2.0 and Δp = 1 bar

More miniature valves: see catalogue MV, also in Ex ATEX version

PDF CAD
www.aircom.net

Order example:
PV202-008