

AVVENTICS™ PROPORTIONAL VALVE SENTRONIC^{PLUS} IPC

DIGITAL ELECTRONIC PRESSURE REGULATOR, IO-LINK CLASS A

- SENTRONIC^{PLUS} IPC is a highly dynamic 2/2-way proportional valve with digital control.
- IO - Link CLASS A Version
- RoHS, REACH compliant
- The very low friction mechanic delivers precise control behaviour, especially in flowing conditions.



General Valve Information

Fluids	Air or neutral gases, Class 5 according to ISO 8573-1:2010 [7:4:4]
Ports	G 1/8 , 1/8 NPT
Max. allowable pressure	Varies by outlet pressure range. See How to Order on next page.
Pressure range	See table below
Fluid temperature	0...50 C° (32...122°F)
Ambient temperature	0...50 C° (32...122°F)
Setpoint	Digital setpoint in steps of 1 mbar 0-10000 = 0-10 bar
Hysteresis	0.5 % of span
Linearity / pressure measurement	± 0.5 % of span
Repeatability	± 0,5 % of span

Construction

Body	Aluminium
Internal parts	Stainless steel and aluminium
Seals	FPM

IO-Link

Protocol version	Specification V1.1
Baud rate	COM3 (230.4 kBaud)
Minimum cycle time	0.5 ms
Process data	2 Byte IN, 2 Byte OUT
Port type	Class A

Electrical Characteristics

Nominal diameter DN	Voltage *	Max. power (W)	Max. current (mA)	Insulation class	Degree of protection	Electrical connection
3	24VDC +/-10%	5	210	F	IP30	5-pin M12 connector (to be ordered separately)

* Max. ripple: 10 %

Specifications

Pipe size	Orifice size (mm)	Flow at 6 bar		
		Flow Coefficient		(l/min)
		K _v (m ³ /h)	C _v	
G/NPT 1/8	3	0.17	0.20	150

How to Order

CATALOG NUMBER

6 1 4 3 5 7

B A S I D P P

B: CONTROL PANEL

B = IO-Link with display

C = IO-Link without display

A: VERSION (ports), body

W = 2/2 NC, G1/8

P = 2/2 NC, 1/8 NPT

S: SETPOINT

B = IO-Link Class A

I: FEEDBACK

B = IO-Link Class A

PP: PRESSURE RANGE

Relative pressure	Max. allowable pressure (bar)	Vacuum (relative)
40 = 0 - 100 mbar	2	V2 = 0 ... -1 bar
50 = 0 - 500 mbar	2	Bypass version
60 = 0 - 1 bar	2	V3 = 0 ... -1 bar
02 = 0 - 2 bar	3	Shut-off valve
03 = 0 - 3 bar	7	(vacuum at port 1)
05 = 0 - 5 bar	7	
06 = 0 - 6 bar	7	

D: OUTPUT

1 = Standard

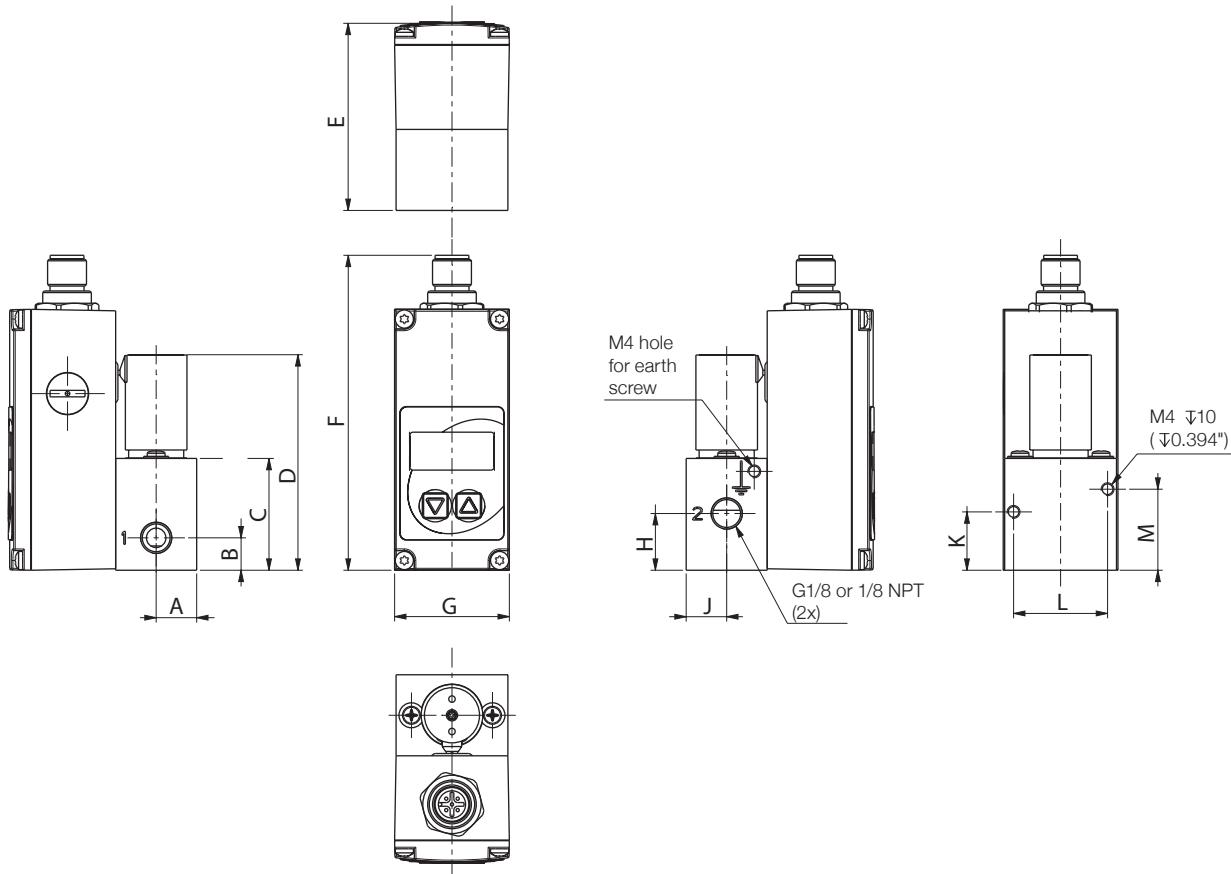
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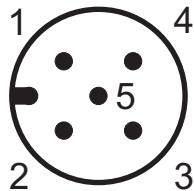
SERIES
614

Dimensions: mm (inches)

G/NPT 1/8



Catalog Number	A	B	C	D	E	F	G	H	J	K	L	M	Weight kg (lbs)
614357XXXXXX	12.5 (0.492)	10 (0.393)	34.5 (1.358)	66.5 (2.618)	57.7 (2.27)	97 (3.819)	35.4 (1.393)	17.5 (0.689)	12.5 (0.492)	18 (0.708)	29 (1.142)	25 (0.984)	0.250 (0.551)

Pin Assignment / Cable Assignment

Pin	Description
1	24V voltage supply
2	not connected
3	Supply ground
4	C/Q
5	not connected
Body	EMC shield

ACCESSORIES

Description	Catalog Number
Connection cable 5m, straight socket, open cable end	N15183710000000
Connection cable 10m, straight socket, open cable end	N15183840000000
Connection cable 5m, straight socket on straight connector	N15184490000000
Connection cable 10m, straight socket on straight connector	N15184520000000