

FEATURES

- SENTRONIC^{LP} stands for:
 - Low power consumption (3,8 W)
 - Digital communication and control
 - Display (integrated) with function buttons (option)
 - Pilot operated proportional valve
- Other functions are valve diagnostics, parameter setting and maintenance.
- The valve's outlet pressure can also be adjusted over the integrated display and the function buttons.
- RoHS, REACH compliant.

GENERAL

Fluids

Air or neutral gas filtered at 50 µm, without condensate, lubricated or unlubricated, class 5 according to ISO 8573-1:2010 [7:4.4]

Max. allowable pressure (MAP)

At least 1 bar above the maximum outlet pressure

Pressure range

0-3 bar, 0-6 bar, 0-10 bar

Fluid temperature

0°C to +60°C

Ambient temperature

0°C to +50°C

Flow (Qv at 6 bar)

470 NI/min - 5200 NI/min

Setpoint

0 - 10 V (impedance 100 kΩ)

0 - 20 mA / 4 - 20 mA (impedance 250 Ω)

Hysteresis

1% of span

Linearity

1% of span

Repeatability

1% of span

Minimum setpoint

100 mV (0,2 mA/4,2mA) with shutoff function

Minimum outlet pressure

1% of span

Failsafe behaviour

Pressure hold on loss of power, without control

CONSTRUCTION

Body

Aluminium

Internal parts

POM (polyacetal)

Seals

NBR (nitrile)

ELECTRICAL CHARACTERISTICS

nominal diameter DN	stabilised voltage *	max. power (W)	max. current (mA)	insulation class	degree of protection	electrical connection
4, 8, 15	24VDC	3,8 W (< 1 W compensate)	160	H	IP 65	5-pin M12 connector (to be ordered separately)

* Max. ripple: 10 %

SPECIFICATIONS

pipe size	orifice size (mm)	flow	
		coefficient Kv (Nm ³ /h)	at 6 bar (NI/min)
G 1/4	4	0,43	470
G 3/8	8	1,2	1300
G 1/2	15	4,8	5200

Test conditions according to ISO 8778: temperature: 20 °C, relative inlet pressure: 6 bar, relative outlet pressure: 5 bar



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DIMENSIONS (mm), WEIGHT (kg)

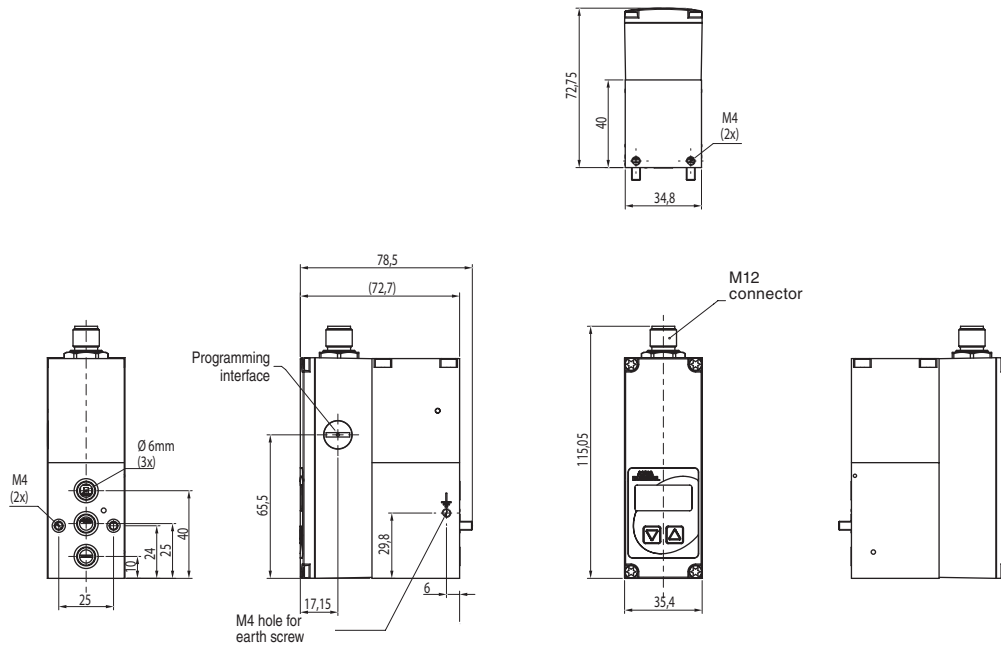


Configurator - CAD Files

Subbase version

DN 4

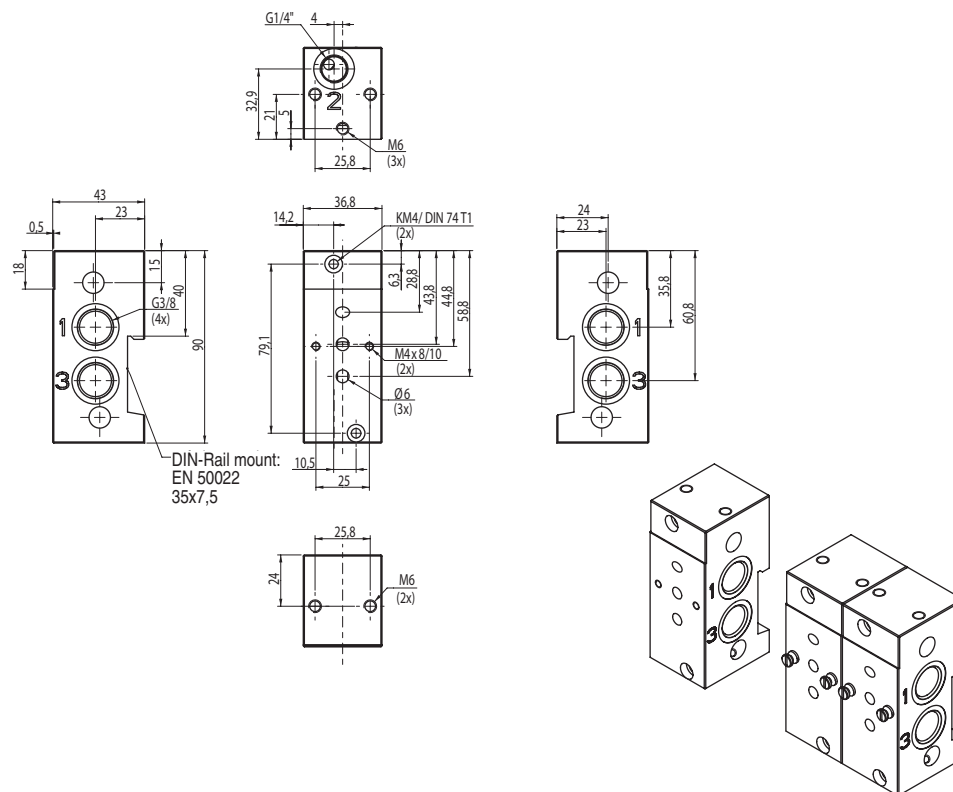
Weight: 0,49 kg



DN 4

Joinable subbase

Weight: 0,3 kg

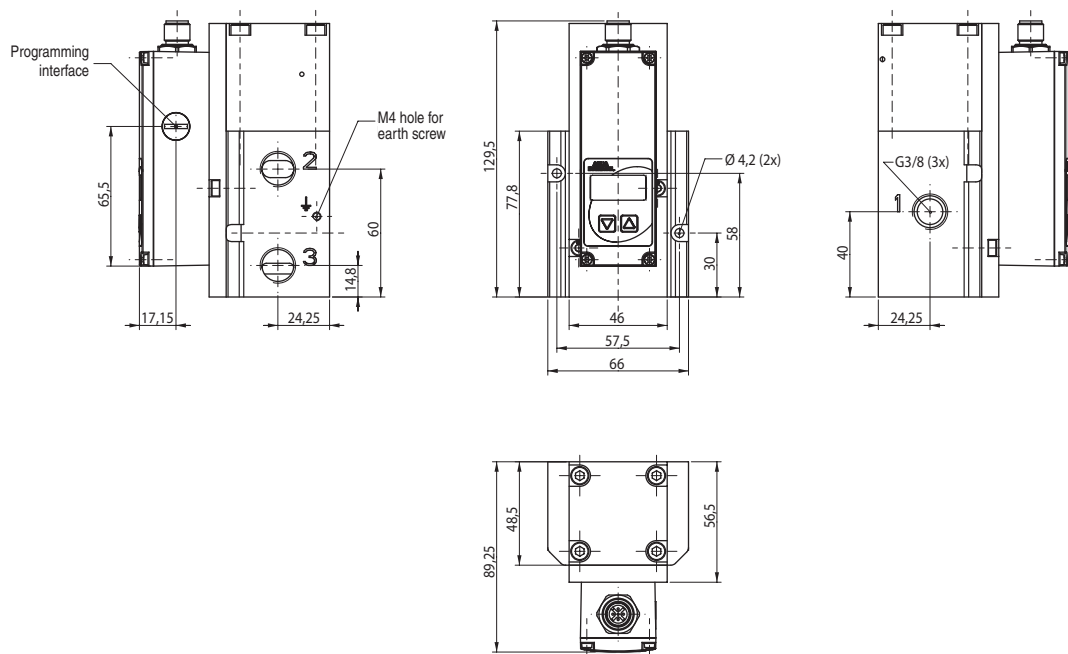


DIMENSIONS (mm), WEIGHT (kg)

[Configurator - CAD Files](#)

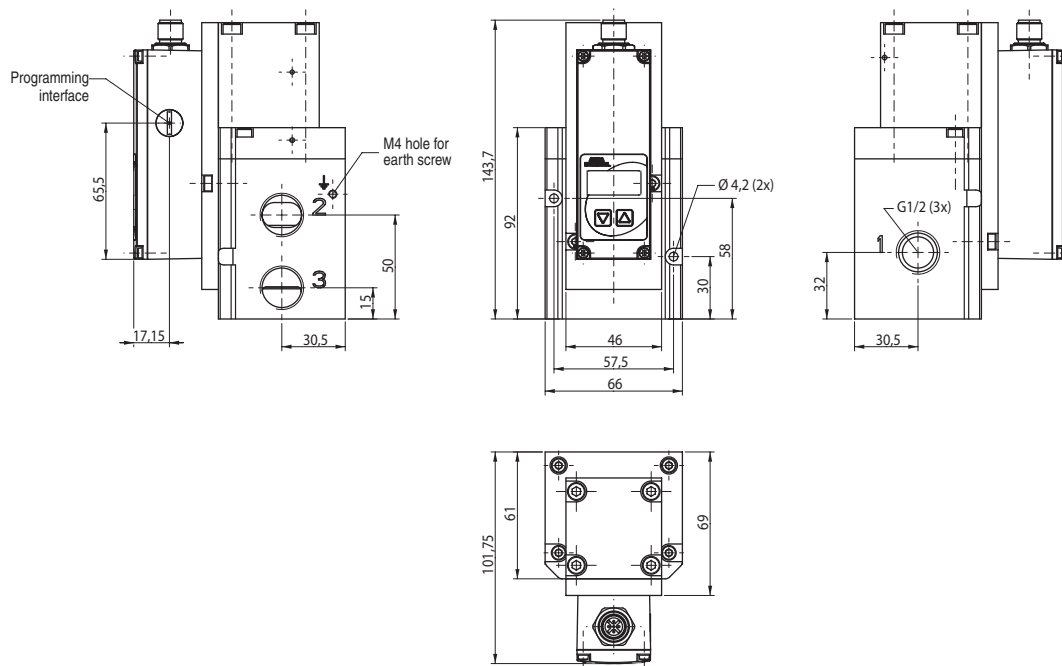
DN 8

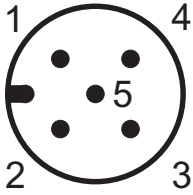
Weight: 0,93 kg



DN 15

Weight: 1,33 kg



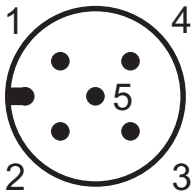
CONNECTOR PINNING / CABLE WIRING


View from soldering side

Pin	Description	5-wire cable (2m)	6-wire cable (5 m, 10 m)
1	24V voltage supply	brown	brown
2	Analog setpoint input	white	white
3	Supply ground	blue	green
	Analog ground *	-	yellow
4	Analog output (Feedback) ¹⁾	black	pink
5	Digital output (Pressure switch)	grey	grey
Body	EMC shield	shield	shield

* A 6-wire cable with separate analog ground is used for cable lengths over 2 m to set off the voltage drop for the setpoint.

¹⁾ Analog input when using cascade control

CONNECTOR PINNING / 2BIT - SETPOINT


Pin	Description
1	24 V voltage supply
2	Input signal 1 (LSB)
3	Supply ground
4	Input signal 2 (MSB)
5	unused

ACCESSORIES

description	catalogue number
Straight M12 female connector, 5 pins, with screw terminals	88100256
Right-angle M12 female connector, 5 pins, with screw terminals	88100725
Supply cable 2 m; 5x0,25 mm ² , straight connector	88100726
Supply cable 2 m; 5x0,25 mm ² , right-angle connector	88100727
Supply cable 5 m, 6 x 0,56 mm ² , straight connector	88100728
Supply cable 5 m, 6 x 0,56 mm ² , right-angle connector	88100729
Supply cable 10 m, 6 x 0,56 mm ² , straight connector	88100730
Supply cable 10 m, 6 x 0,56 mm ² , right-angle connector	88100731
Supply cable (2Bit - Setpoint) 3 m, straight connector	TC0403MMETA04000
Supply cable (2Bit - Setpoint) 5 m, straight connector	TC0405MMETA04000
Supply cable (2Bit - Setpoint) 3 m, right-angle connector	TD0403MMETA04000
Supply cable (2Bit - Setpoint) 5 m, right-angle connector	TD0405MMETA04000
RS 232 cable converter; 2 m cable with 9-pin Sub-D (plug connector)	88100732
USB interface, 1 m cable	N50930300100000
Joinable subbases for 617 DN4 with pressure supply G 3/8"	N50781800000000

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