

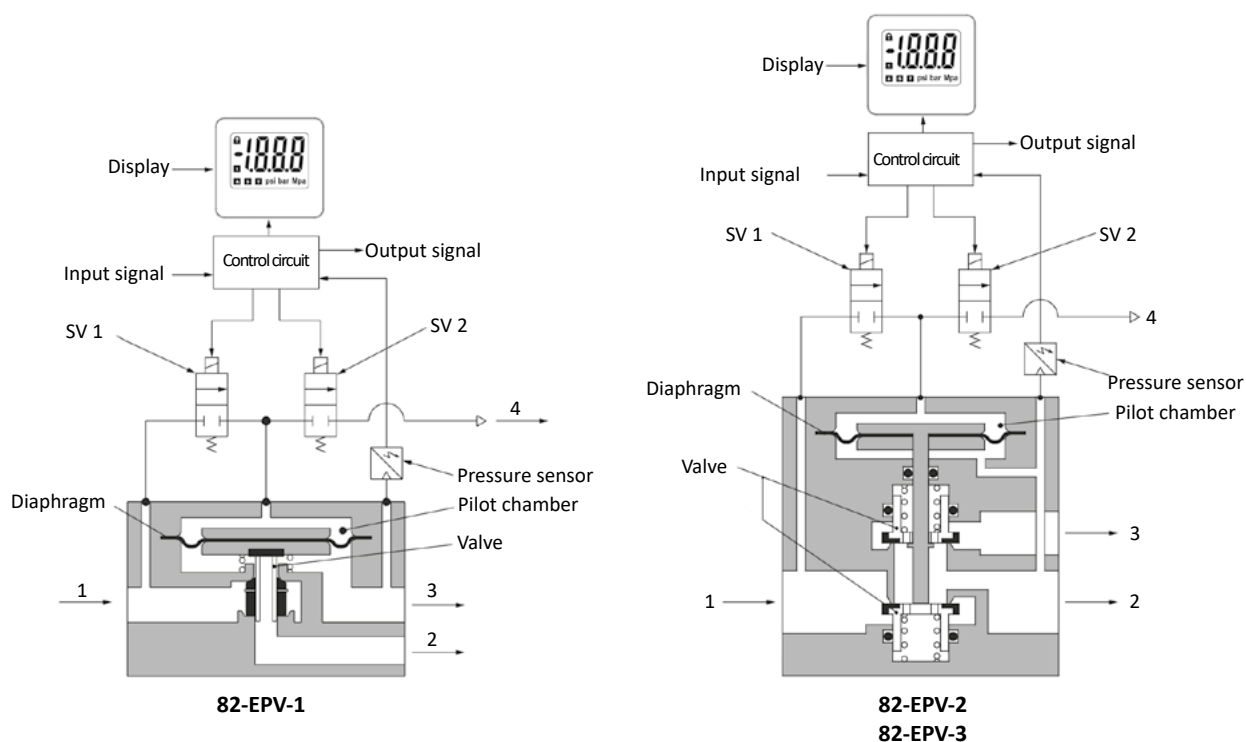
Technical details

Temperature range	0°C ... +50°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), plastic, seals: NBR, inner parts: Al, steel and brass



Function

With an increasing input signal, the solenoid valve SV1 (air supply) is switched ON while at the same time the solenoid valve SV2 (air exhaust) remains closed. Air is supplied to the pilot chamber. The pressure in the pilot chamber increases and is applied to the upper side of the membrane. The valve which is connected to the membrane opens, and air flows towards the valve outlet. The outlet pressure is monitored by a pressure sensor which transmits a corresponding electrical signal to the control circuit. The control circuit adjusts the valve so that the outlet pressure is proportional to the input pressure. The pressure sensor continually controls the outlet pressure and keeps it proportional to the inlet pressure.



- 1 = pressure inlet
2 = outlet
3 = exhaust
4 = exhaust

Series 82-EPV



Order code

82-EPV-***-F-***	
Series	Accessories
Type / Nominal size	without accessories
1 2 mm	0C without bracket with cable connector, straight, 3m
2 7 mm	0L without bracket with cable connector, right angle, 3m
3 11 mm	C0 with flat bracket without cable connector
Output range	L0 with L-type bracket without cable connector
1 0,05 ... 1 bar	CC with flat bracket with cable connector, straight, 3m
3 0,05 ... 5 bar	CL with flat bracket with cable connector, right angle, 3m
5 0,05 ... 9 bar	LC with L-type bracket with cable connector, straight, 3m
Input signal	LL with L-type bracket with cable connector, right angle, 3m
0 4 ... 20 mA DC	Connection
3 0 ... 10 V DC	F1 G1/8 (only type 1)
	F2 G1/4
	F3 G3/8 (only type 2 and 3)
	F4 G1/2 (only type 3)
	Output signal
	1 1 ... 5 V DC
	2 switch, NPN output
	3 switch, PNP output
	4 4 ... 20 mA DC

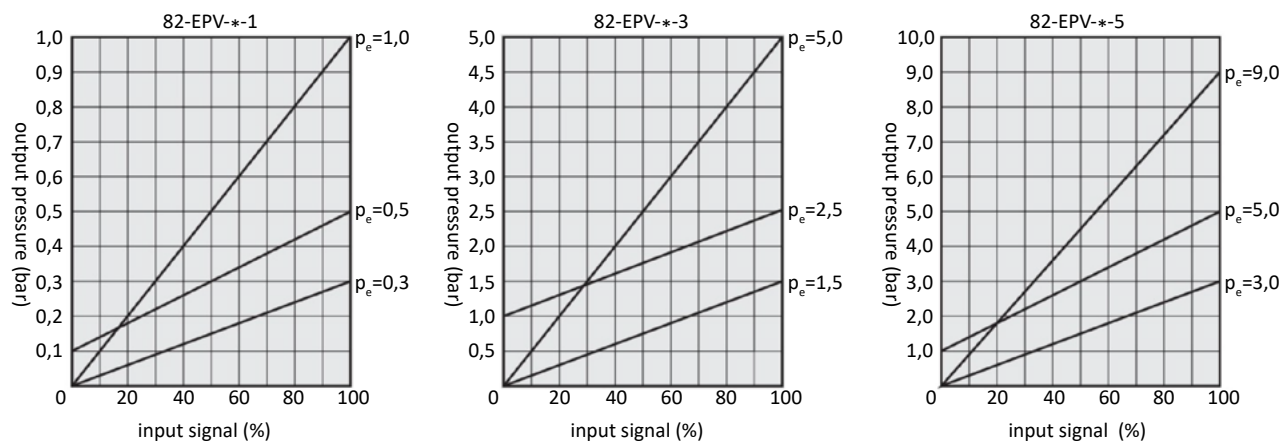
Accessories

Model-no.:	82-EPV-MB-L	Model-no.:	86-ST-EPV-C-3
	L-type bracket		Cable connector, straight, 3m
Model-no.:	82-EPV-MB-C	Model-no.:	86-ST-EPV-L-3
	Flat bracket		Cable connector, right angle, 3m

Technical data

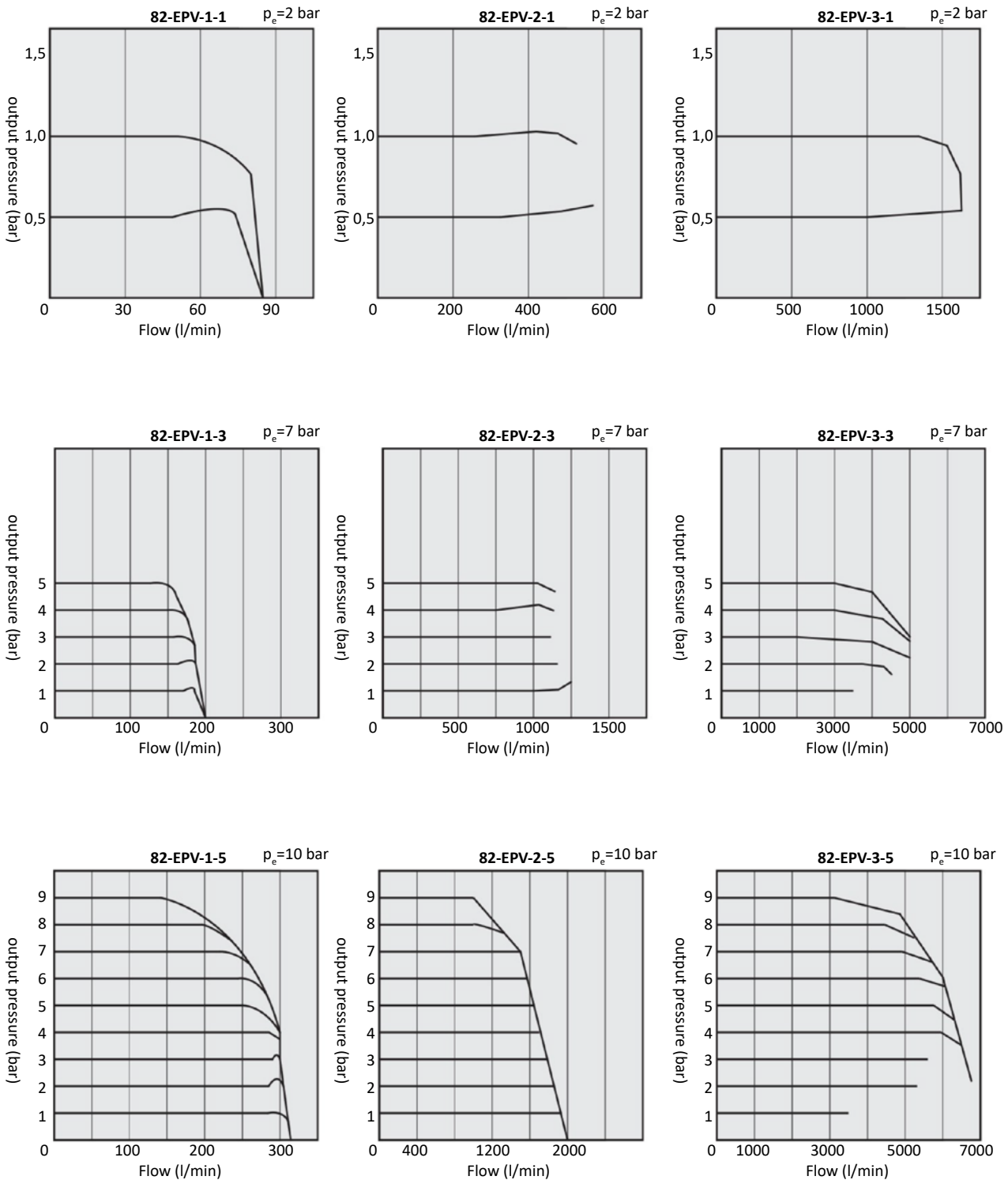
Model-no.:	82-EPV-1-1 82-EPV-2-1 82-EPV-3-1	82-EPV-1-3 82-EPV-2-3 82-EPV-3-3	82-EPV-1-5 82-EPV-2-5 82-EPV-3-5
Input range (bar)	1 ... 2	1 ... 10	1 ... 10
Output range (bar)	0.05 ... 1	0.05 ... 5	0.05 ... 9
Input signal	0 ... 10 V or 4 ... 20 mA		
Input impedance	ca. 6.5 k Ω (0 ... 10 V) $\leq$ 250 Ω (4 ... 20 mA)		
Output signal (analog)	1 ... 5 V or 4 ... 20 mA		
Output signal (switch)	NPN or PNP (max. 30 V, 80 mA)		
Repeatability	$\pm$ 0.5% (full span)		
Linearity	$\pm$ 1% (full span)		
Hysteresis	0.5% (full span)		
Temperature characteristics	2% (full span)/K		
Display precision	$\pm$ 2% (full span)		
Electrically connection	M12-plug, 4-pin		
Nominal voltage	24 V DC $\pm$ 10%		
Power consumption	max. 3 W		
Protection	IP 65 according to EN 60529		
Weight (kg)	82-EPV-1	82-EPV-2	82-EPV-3
	0.25	0.37	0.66

Linearity



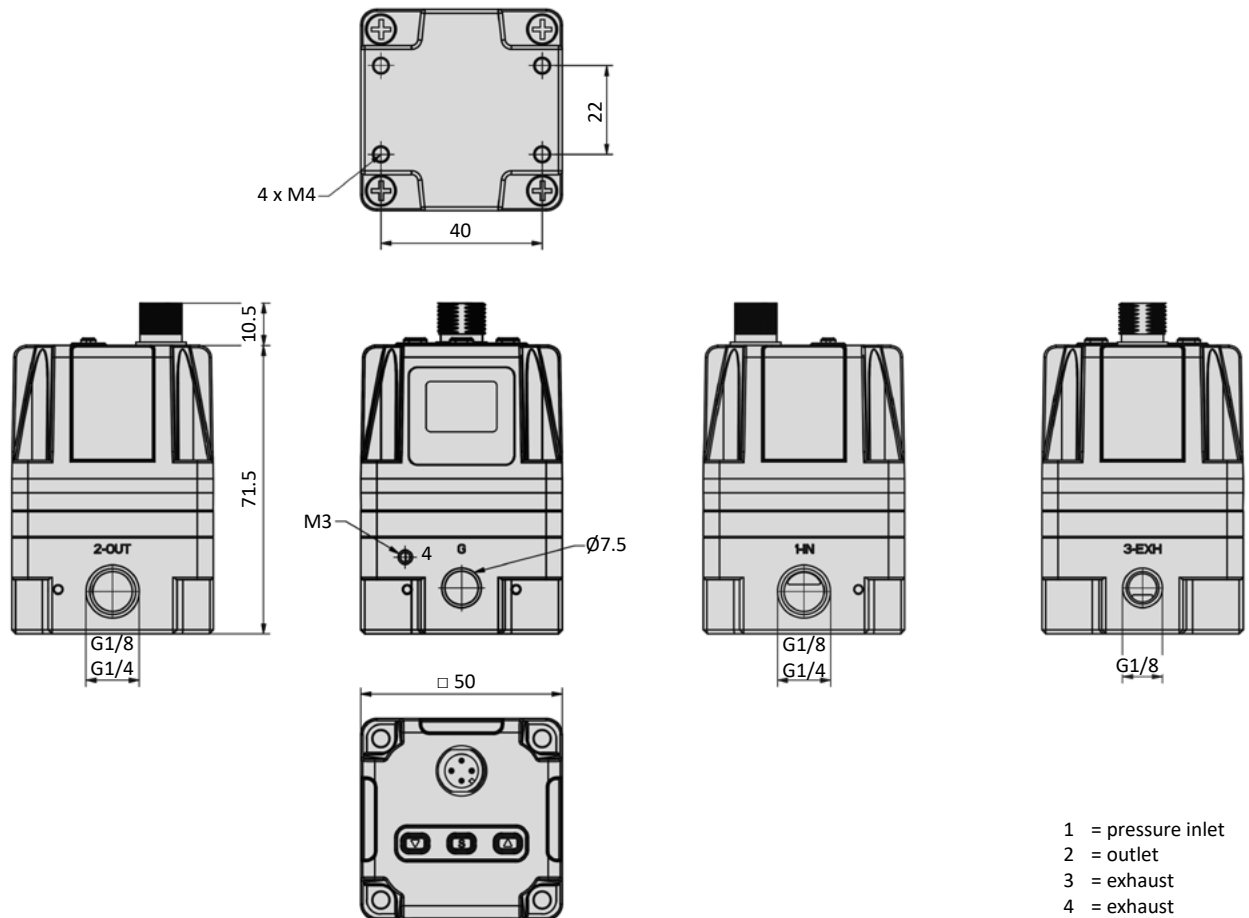
Technical data

Flow characteristics

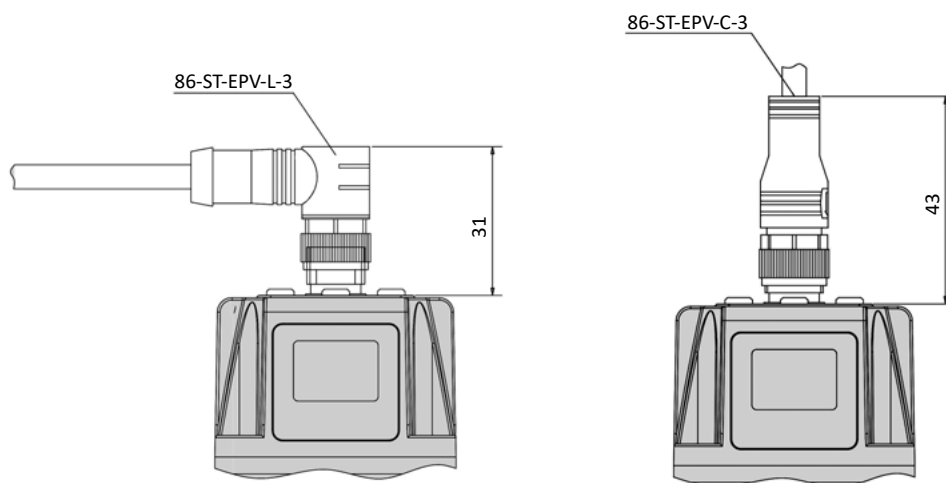


Dimensions

82-EPV-1



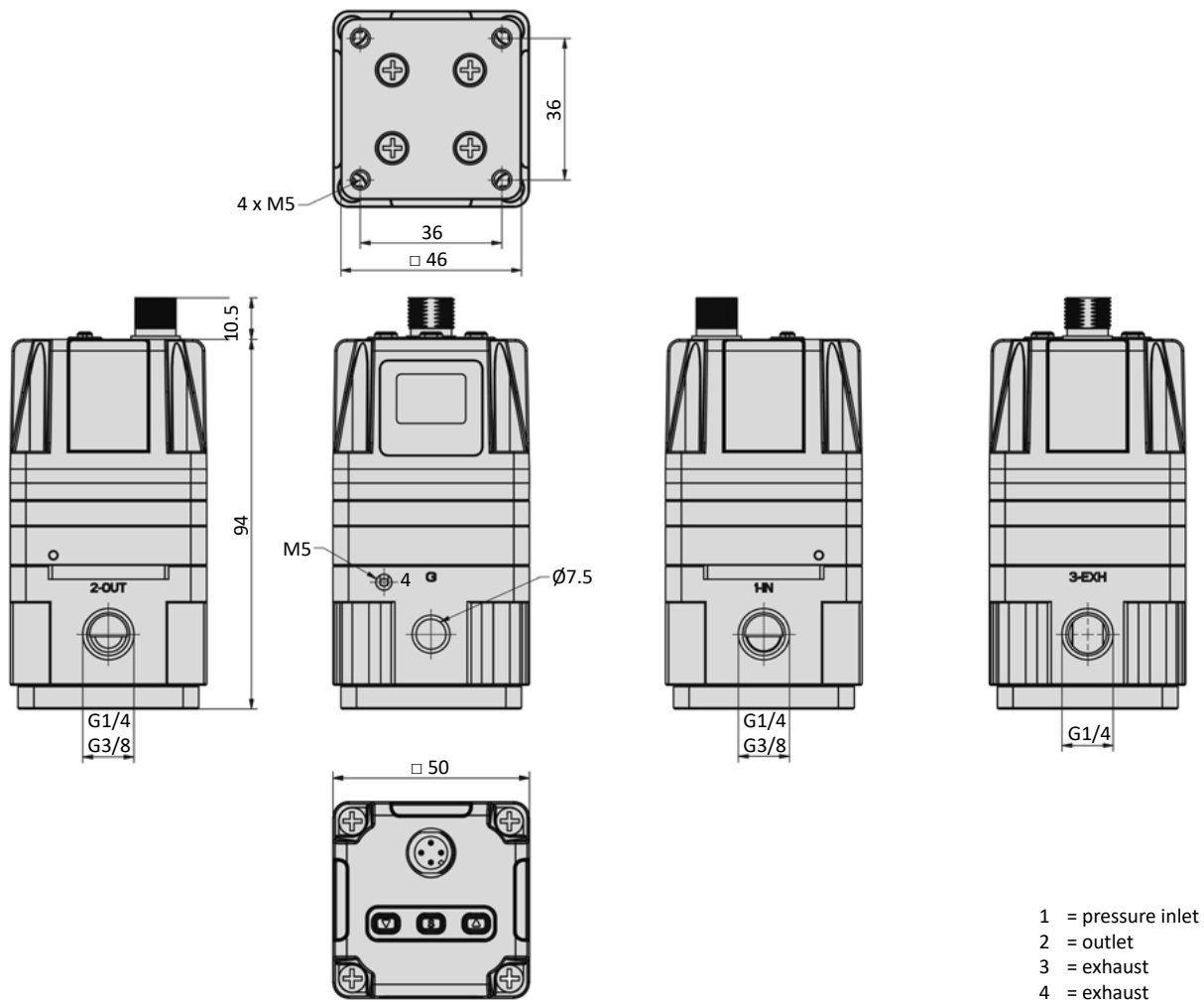
Cable connector



Series 82-EPV

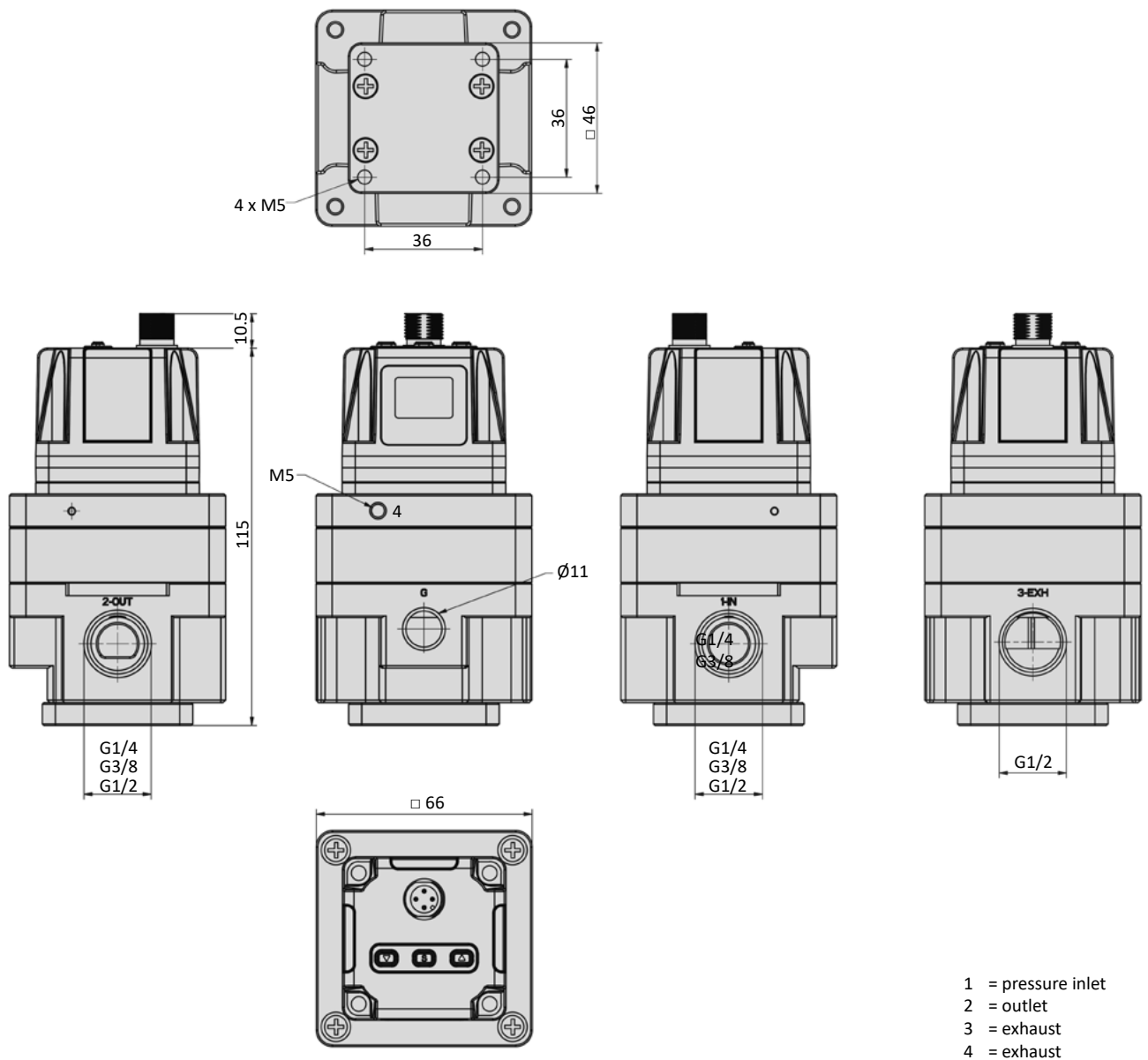
Dimensions

82-EPV-2



Dimensions

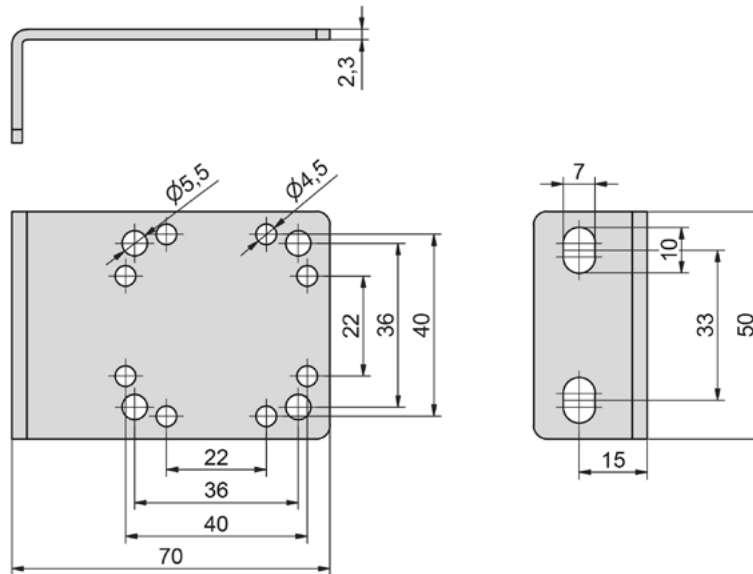
82-EPV-3



Series 82-EPV

Dimensions

Bracket 82-EPV-MB-L



Bracket 82-EPV-MB-C

