

RVP 80: Amplifying relay

Used as a 1:1 relay for amplifying the air volume for low-performance pneumatic devices; also used for minimum and/or maximum limitation of pneumatic pressure signals. Conforms to the regulations on pressure equipment (97/23/EG Art. 3.3).

Housing of thermoplastic; front plate embossed with connection diagram and description of operation. Suitable for mounting on walls or rails (as per C EN 50024, C EN 50022; see *Accessories*). Compressed-air connection Rp $\frac{1}{8}$ female thread; measuring connections M4.

Type	Description	Air output	Air consumption ¹⁾	Weight kg
RVP 80 F001	air-volume amplification	400 l _n /h	17 l _n /h	0.15
Supply pressure ²⁾	1.3 bar \pm 0,1	Permissible ambient temp.		0...55 °C
Input pressure	0...1.4 bar	Connection diagram		A02892
Output pressure	0...1.4 bar	Dimension drawing		M297107
		Fitting instructions		MV 3250

Accessories

- 0296936 000*** Fixing bracket for rail EN 50022, 35 × 7.5 and 35 × 15
0297113 000* Manometer bracket for fitting two XMP includes kit; MV 3255
0297091 000* Cover for spare apertures (for manometers), when 0297113 is used

^{*}) Dimension drawing or wiring diagram are available under the same number

1) Without transducer. Air consumption for transducer: an additional 33 l_n/h for connection 3.

2) See Section 60 on regulations concerning the quality of supply air, especially at low ambient temperatures.



T03047



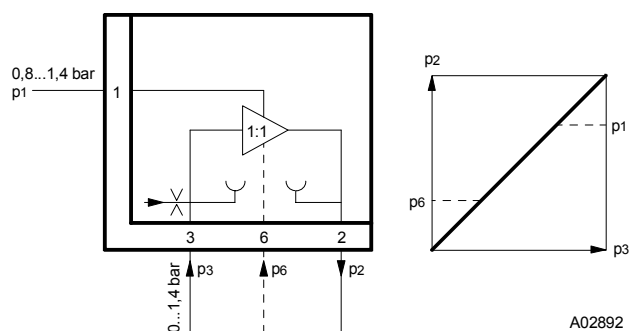
Y03112

Operation

When the input pressure is rising, the output pressure also rises; conversely, falling input pressure produces falling output pressure. Variable pressures of between 0 and 1.4 bar can also be applied to connections 1 and 6; this provides limitation of the output pressure.

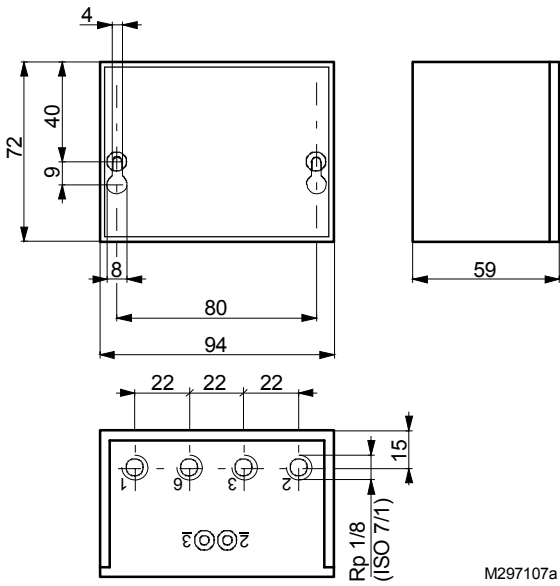
Connection 1 is for maximum limitation and/or connection 6 is for minimum limitation. The output pressure is then prevented from ever exceeding the pressure at connection 1, and will never be lower than the pressure at connection 6. There is an integrated restrictor (Ø 0.2 mm) for supplying the transducer.

Connection diagram



A02892

Dimension drawing



Accessories

