

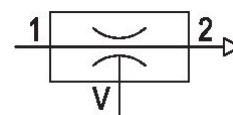
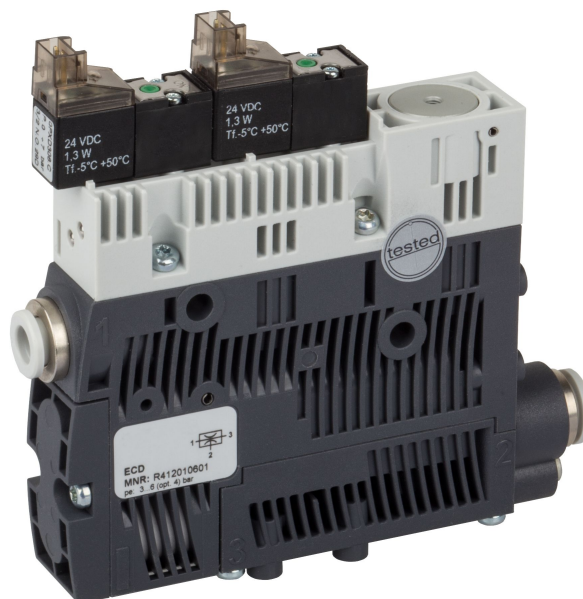
# compact ejector, Series ECD-BV

2024-02-20

R412010603

## Serie ECD-BV

The AVENTICS Series ECD is an all-inclusive solution that combines vacuum generators, pilot valves, filters, silencers and pressure switches. Simplify installation and optimize your energy footprint by opting for the air economizer function, and increase your degree of status monitoring with the condition monitoring function.



## Technical data

Industry	Industrial
Activation	Electrically
with silencer	with silencer
Nozzle Ø	1.5 mm
Accessories	with non-return valve
Min. working pressure	2 bar
Max. working pressure	6 bar
Working pressure p.opt.	4 bar
Min. ambient temperature	0 °C
Max. ambient temperature	50 °C
Min. medium temperature	0 °C
Max. medium temperature	50 °C
Medium	Compressed air
Min. oil content of compressed air	0 mg/m <sup>3</sup>
Max. oil content of compressed air	1 mg/m <sup>3</sup>
Max. particle size	5 µm
Max. suction capacity	64.3 l/min
Air consumption at p.opt.	98.9 l/min
Max. vacuum level at p.opt.	81.5 %

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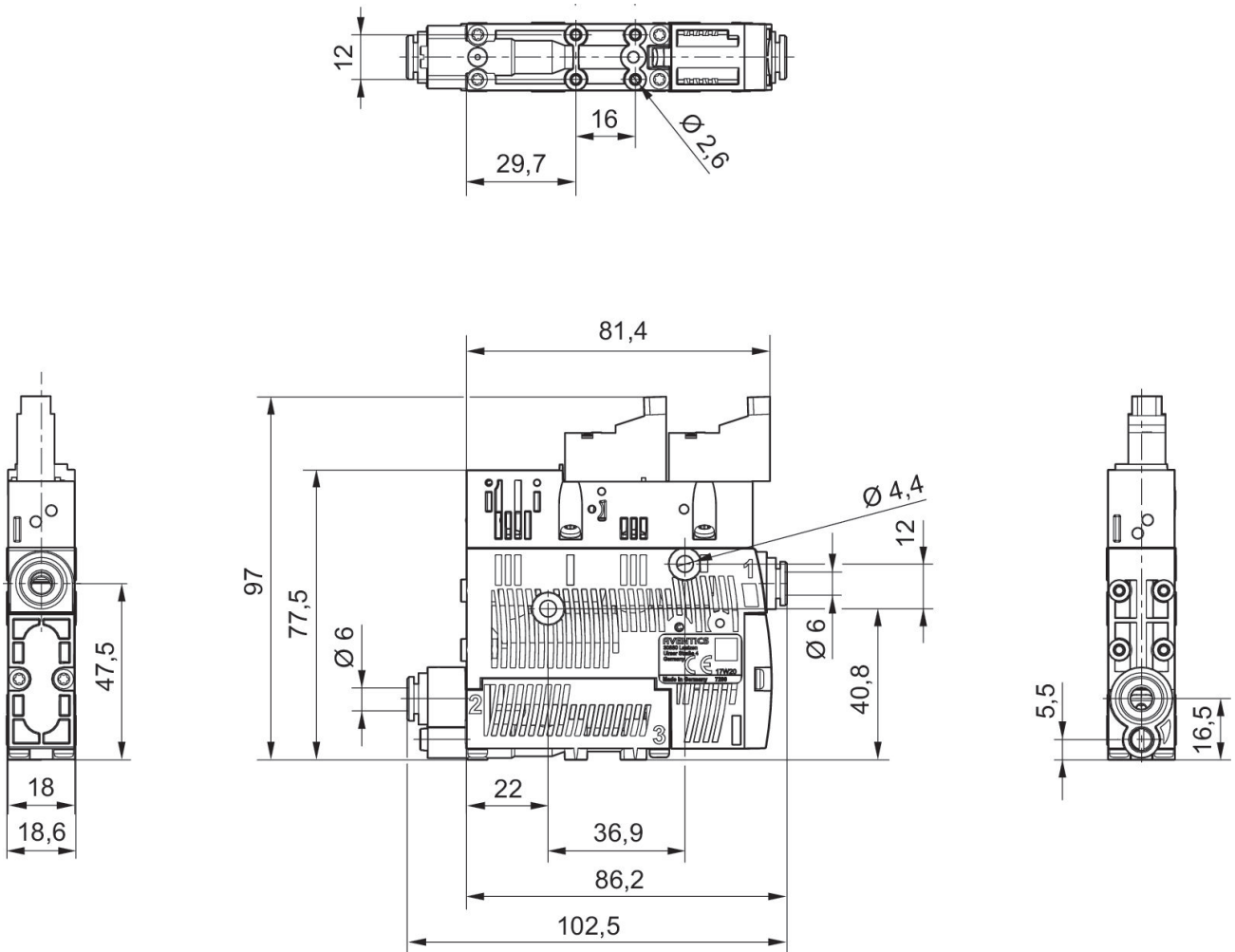
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Sound pressure level intake effect	68 dB
Sound pressure level intake effect	79 dB
release valve	release valve
Protection class according to EN 60529:2000, without electrical connector	IP40
Duty cycle according to DIN VDE 0580 standard	100 %
Operational voltage DC	24 V
Voltage tolerance DC	- 5% / +10%
Power consumption solenoid valve	1.3 W
Weight	0.195 kg
Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Nozzle material	Brass
Silencer material	Polyethylene
Part No.	R412010603

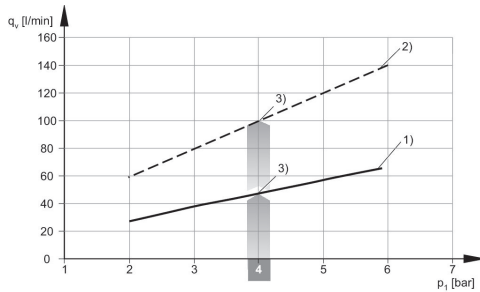
## Technical information

Note: All data refers to an ambient pressure of [[1,013] bar] and an ambient temperature of [[20]°C].

## Dimensions

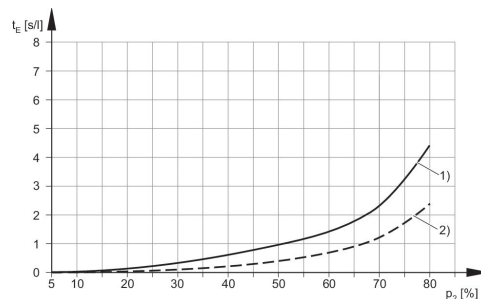


Air consumption  $q_v$  depending on working pressure  $p_1$



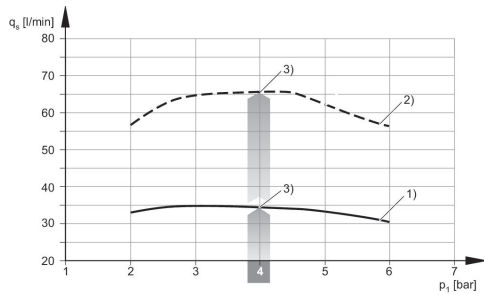
- 1)  $\varnothing$  nozzle [[1.0] mm]
- 2)  $\varnothing$  nozzle [[1.5] mm]
- 3) optimum working pressure

Evacuation time  $t_E$  depending on vacuum  $p_2$  for 1 l volume (with optimal operating pressure  $p_{1opt}$ )



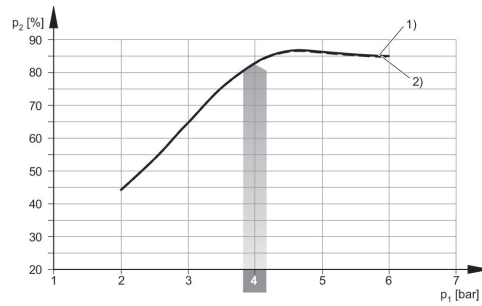
- 1)  $\varnothing$  nozzle [[1.0] mm]
- 2)  $\varnothing$  nozzle [[1.5] mm]

## Suction capacity $q_s$ depending on working pressure $p_1$



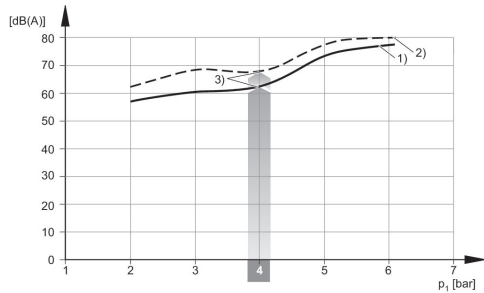
- 1)  $\varnothing$  nozzle [[1.0] mm]
- 2)  $\varnothing$  nozzle [[1.5] mm]
- 3) optimum working pressure

## Vacuum $p_2$ depending on working pressure $p_1$



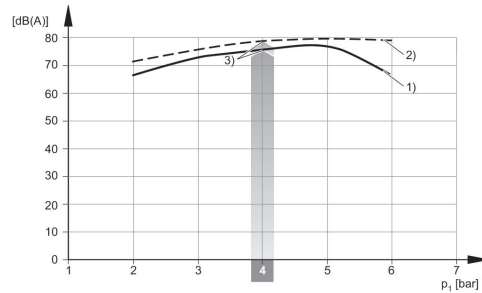
- 1)  $\varnothing$  nozzle [[1.0] mm]
- 2)  $\varnothing$  nozzle [[1.5] mm]

## Noise level, suctioned



- 1)  $\varnothing$  nozzle [[1.0] mm]
- 2)  $\varnothing$  nozzle [[1.5] mm]
- 3) optimum working pressure

## Noise level at free suctioning



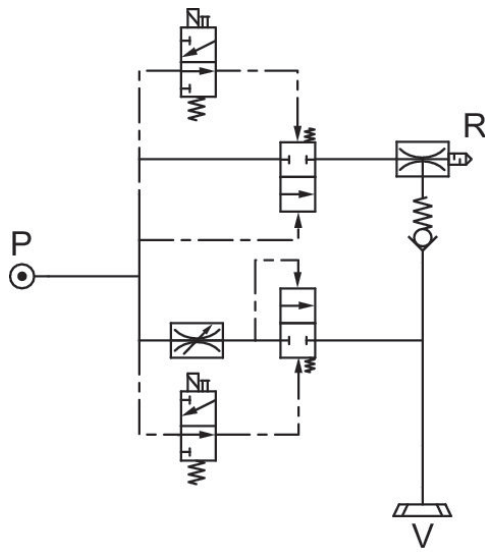
- 1)  $\varnothing$  nozzle [[1.0] mm]
- 2)  $\varnothing$  nozzle [[1.5] mm]
- 3) optimum working pressure

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Circuit diagram  
ECD-BV-...NC



Circuit diagram  
ECD-BV-...NO

