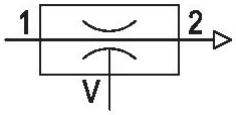
compact ejector, Series ECV

0821305164

2024-02-19

AVENTICS Series ECV Ejectors

AVENTICS ECV Series are compact vacuum ejectors especially designed to be integrated HF03 valve terminal systems. Series ECV insure multiple functions as restricted exhaustâ€‹, vacuum switch or silencer.â€‹



Technical data

Industry	Industrial
Activation	Electrically
Note	Archive product: Do not use in new constructions! For HF03 valve system
Nozzle Ø	1.5 mm
Min. working pressure	3 bar
Max. working pressure	6 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/m³
Max. oil content of compressed air	1 mg/m³
Max. particle size	5 µm
Compressed air connection	G 1/8
Compressed air connection, exhaust	G 1/8
Vacuum connection+	G 1/8
Max. suction capacity	63 l/min

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Air consumption at p.opt.	116 l/min
Ventilation port	With ventilation port
Weight	0.11 kg
Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
Nozzle material	Brass
Silencer material	Polyethylene
Part No.	0821305164

Technical information

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

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

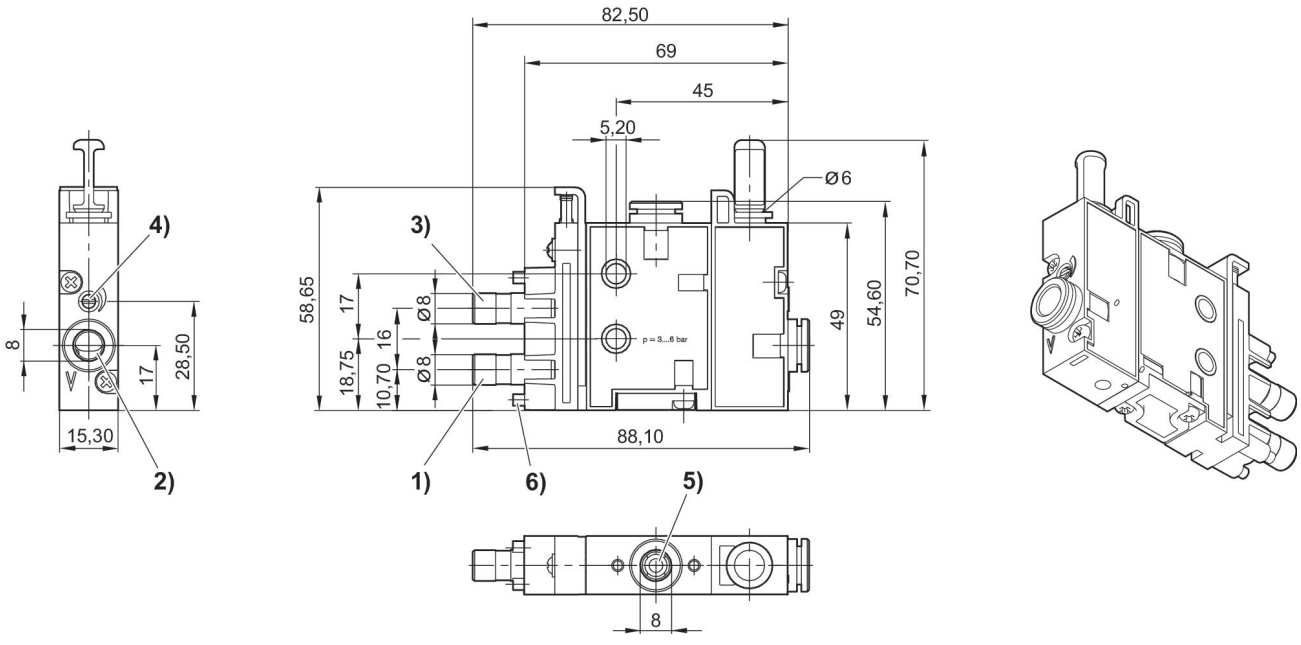
The oil content of compressed air must remain constant during the life cycle.

p.opt. = optimum working pressure

Fig. 1

ECV-PC-15-NN

With ventilation port

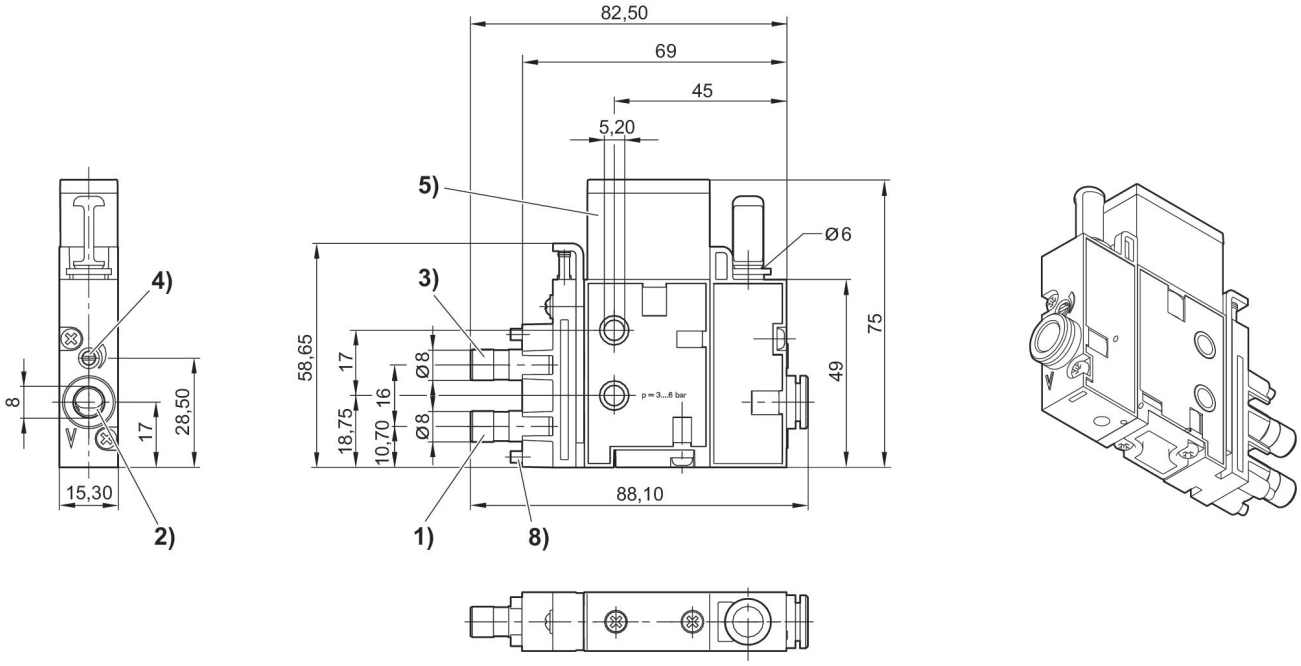


1) air connection (suction) 2) vacuum connection 3) release pulse connection 4) throttle for release pulse 5) ventilation port
6) Spacer

Fig. 2

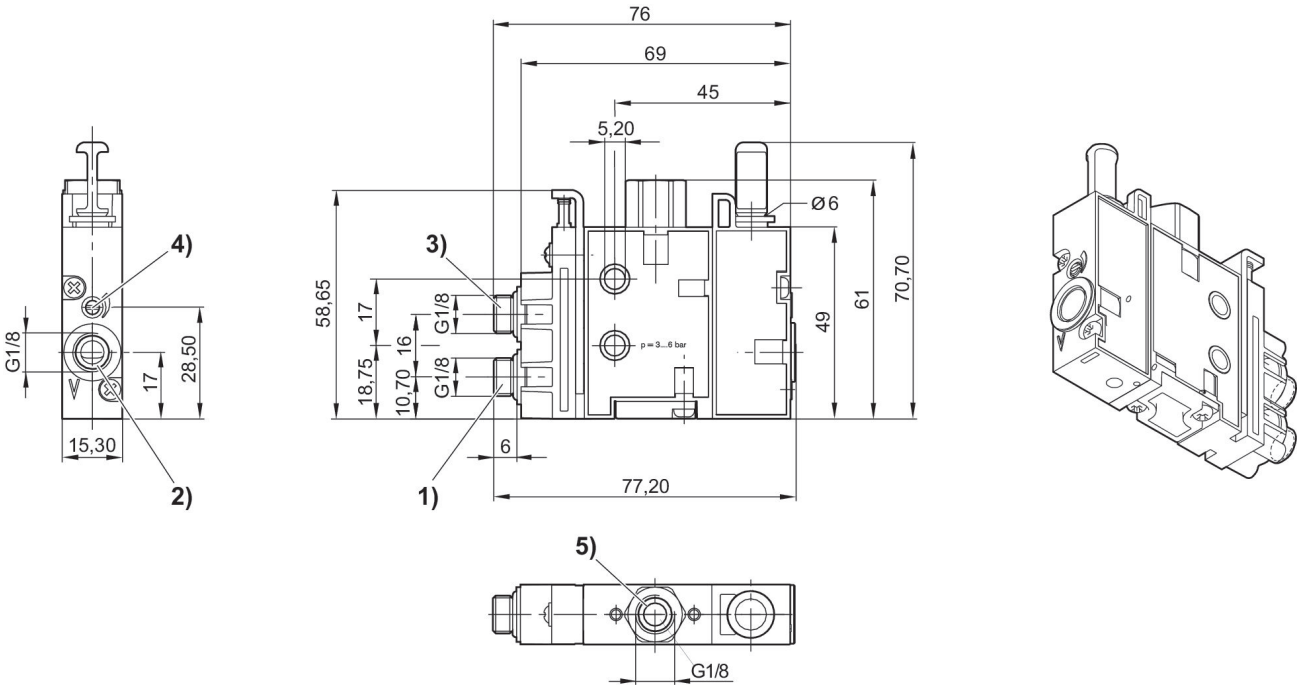
ECV-PC-15-NN

with silencer



1) air connection (suction) 2) vacuum connection 3) release pulse connection 4) throttle for release pulse 5) silencer
6) Spacer

Fig. 3
ECV-PC-15-NN
With ventilation port

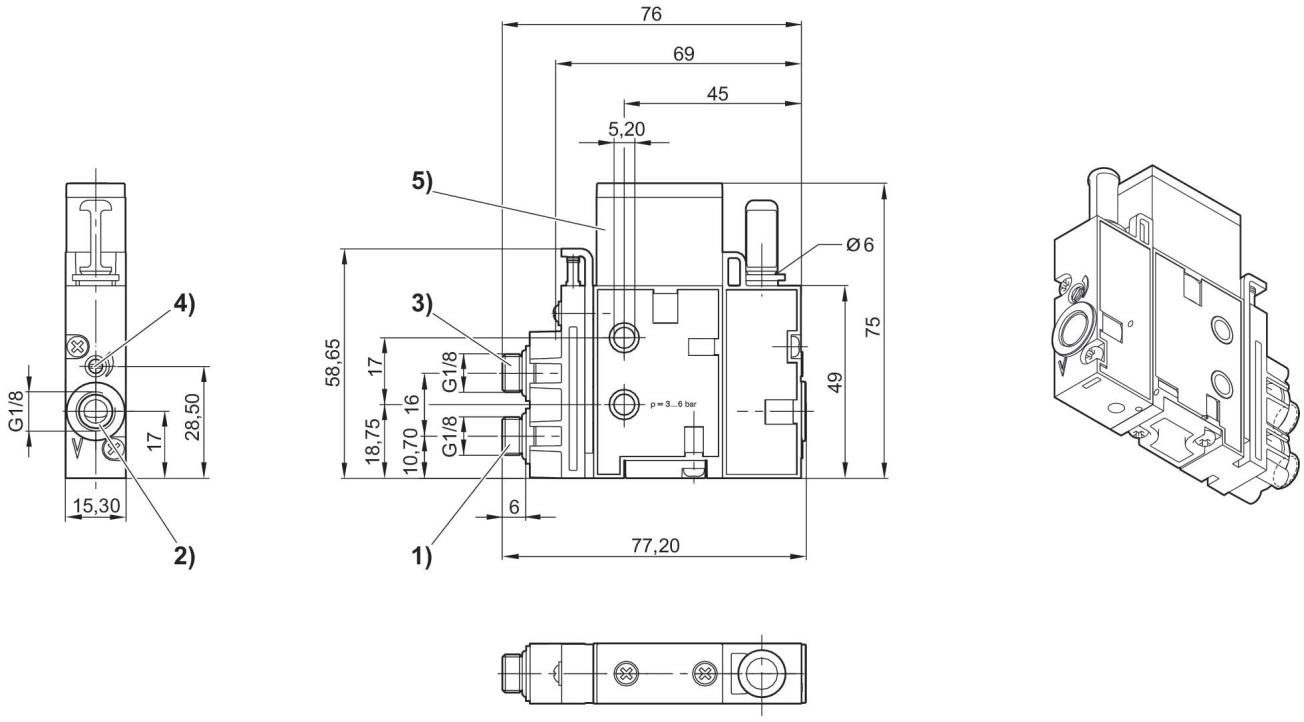


1) air connection (suction) 2) vacuum connection 3) release pulse connection 4) throttle for release pulse 5) ventilation port

Fig. 4

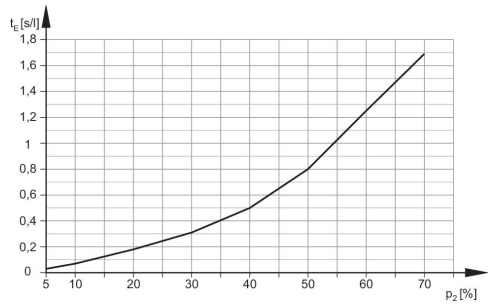
ECV-PC-15-NN

with silencer

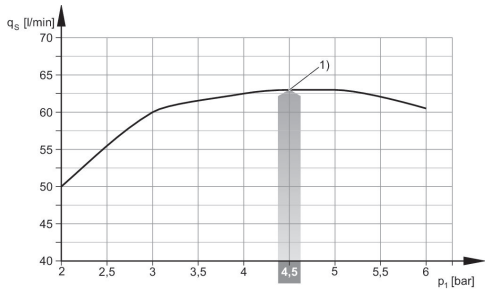


1) air connection (suction) 2) vacuum connection 3) release pulse connection 4) throttle for release pulse 5) silencer

Evacuation time tE depending on vacuum p2 for 1 l volume (with optimal operating pressure p1opt)

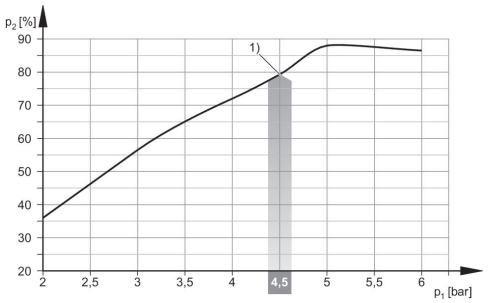


Suction capacity qs depending on working pressure p1



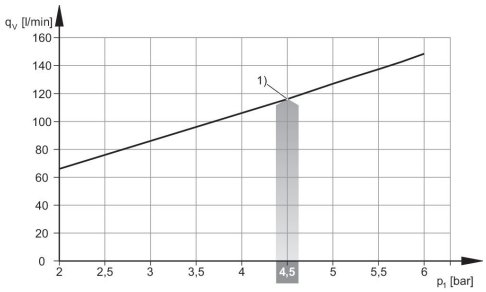
1) optimum working pressure

Vacuum p2 depending on working pressure p1



1) optimum working pressure

Air consumption qv depending on working pressure p1



1) optimum working pressure

Fig. 8

ECV-HF03-...with NC activation

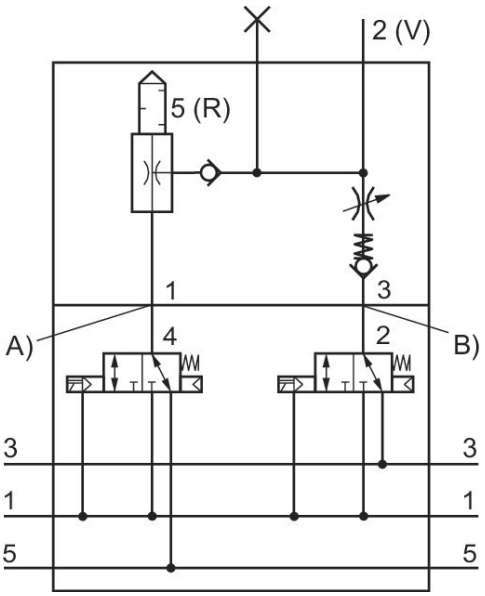
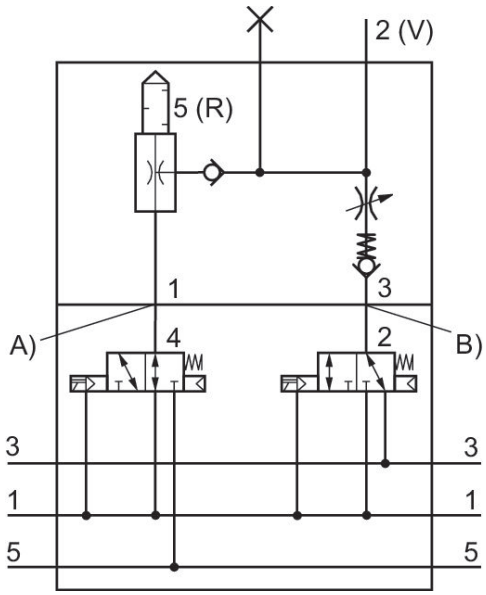


Fig. 7

ECV-HF03-...with NO activation



A) Air connection suction
B) release pulse air connection

Fig. 6
ECV-HF03-...with NC activation

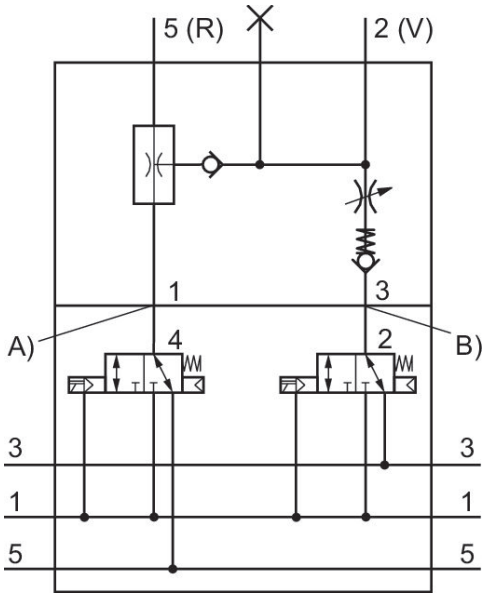
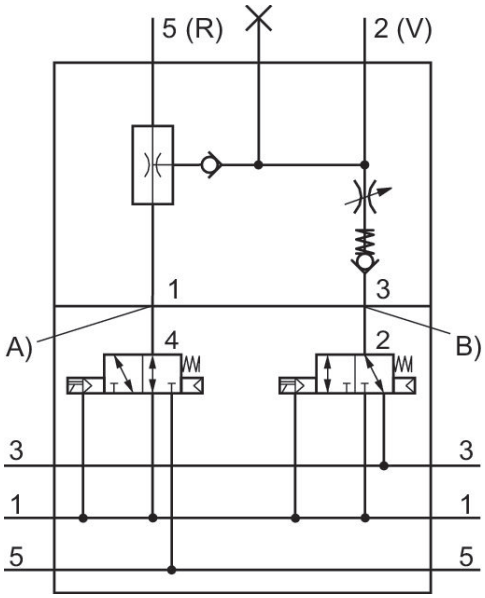


Fig. 5
ECV-HF03-...with NO activation



A) Air connection suction
B) release pulse air connection