

Ejectors AVAC 2BV 20-150

- > 85% vacuum at 4 bar
- Very compact
- Low weight
- Quick response
- Controlled Rapid Release (RR)
- Connection for vacuum sensor
- Robust
- Easy mounting
- > 95% air-saving potential
- Increased safety



Our series 2BV EJECTORS is suited best for lifting of glass, metal and other air tight materials.

The vacuum holding valve in the vacuum port and the Blow Off Valve in the Rapid Release port, delays the loss of vacuum in the suction cup in case of a broken tube. This means that personnel can get to safety and the load can be moved to a safe place before the leakage between the object being lifted and the suction cup makes the level of vacuum to hold the object too low.

The blow off (Rapid Release) Blow Off Valve opens at 0.5 bar, which allows several 2BV EJECTORS to be attached to the same Rapid Release signal.

DOUBLE SAFETY

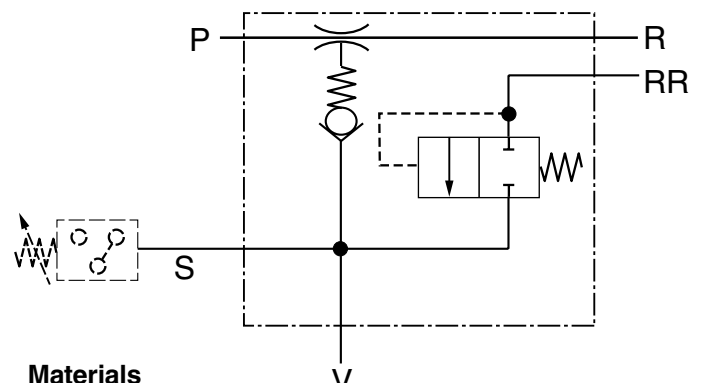
The holding valve in the vacuum port prolongs time before the load is dropped due to pressure loss. The blow off valve blocks, in case of broken signal tube in the blow off port.

The Blow Off Valve opens at 0.5 bar and gives a distinct release signal.

A vacuum sensor connected to the device can monitor the vacuum level and ensure the alarm is triggered at too low vacuum level.

AIR SAVING AUTOMATIC FUNCTION

Dense material allows air savings > 95% in combination with appropriate control system and a vacuum sensor.



Materials

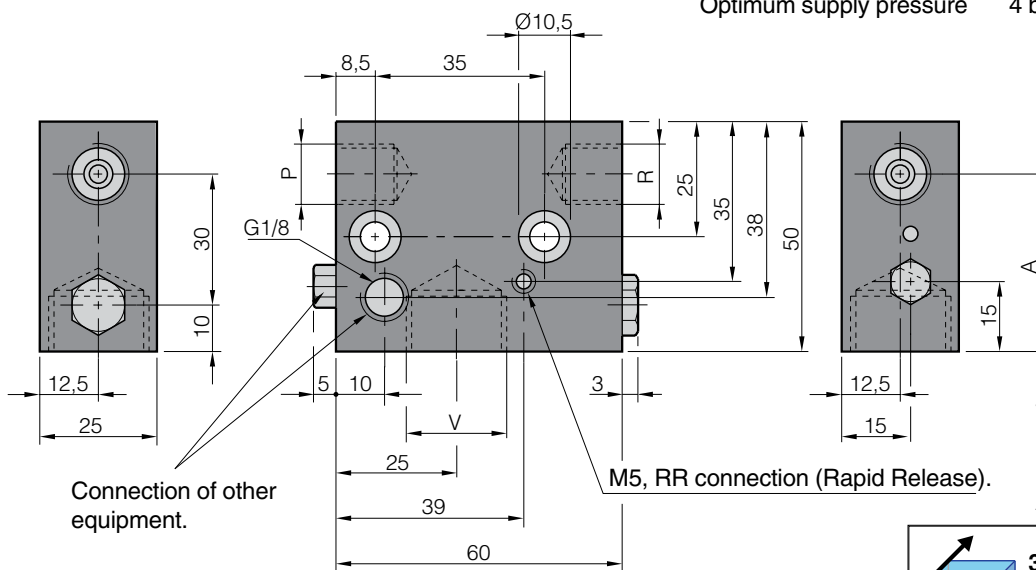
Body Black anodized aluminium
Nozzle Brass

Temperature

Temperature range -10 to +70 °C

Compressed air

Pressure max 8 bar
Optimum supply pressure 4 bar



P = Air connection
V = Vacuum Connection
R = Exhaust
RR = Blow off (Rapid Release)
A see table page 51

3D CAD FILES (STEP)
Download via:
<http://www.avac.se/en/home/>

Vacuum flow of the ejector and the primary nozzle diameter

Designation	Vacuum flow at different vacuum level [NI/min]									Primary nozzle(s) Ø mm
	0%	10%	20%	30%	40%	50%	60%	70%	80%	
AVAC 2BV-20	12,8	11,3	8,8	5,9	3,6	2,7	1,8	0,8	0,3	0,7
AVAC 2BV-30	17,3	15,5	13,3	11,5	9,0	6,3	3,8	1,3	0,6	0,95
AVAC 2BV-40	27,6	23,2	19,5	17,0	14,0	10,3	6,0	3,2	0,9	1,1
AVAC 2BV-60	42,6	37,6	32,0	27,0	20,1	15,3	10,3	3,3	1,5	1,25
AVAC 2BV-100	64,0	56,4	47,6	39,0	32,6	26,6	19,0	9,0	3,0	2 x 1,1
AVAC 2BV-150	96,0	84,6	71,4	58,5	48,9	39,9	28,5	13,5	4,5	3 x 1,1

Designation	Connection threads				Measure A mm	Air consumption NI/min.	Evacuation time (s)*	Weight g	Order no.
	P	V	R	RR					
AVAC 2BV-20	G1/4	G1/2	G1/4	M5	40	20	9	180	110 020 06
AVAC 2BV-30	G1/4	G1/2	G1/4	M5	40	30	6	185	110 030 06
AVAC 2BV-40	G1/4	G1/2	G1/4	M5	40	40	4,5	190	110 040 06
AVAC 2BV-60	G1/4	G1/2	G1/4	M5	40	60	3	195	110 060 06
AVAC 2BV-100	G1/4	G1/2	G1/2	M5	38,5	100	2	200	110 100 06
AVAC 2BV-150	G1/4	G1/2	G1/2	M5	38,5	150	1,2	200	110 150 06

* Time to evacuate 1 litre air from atmospheric pressure to 75% vacuum.

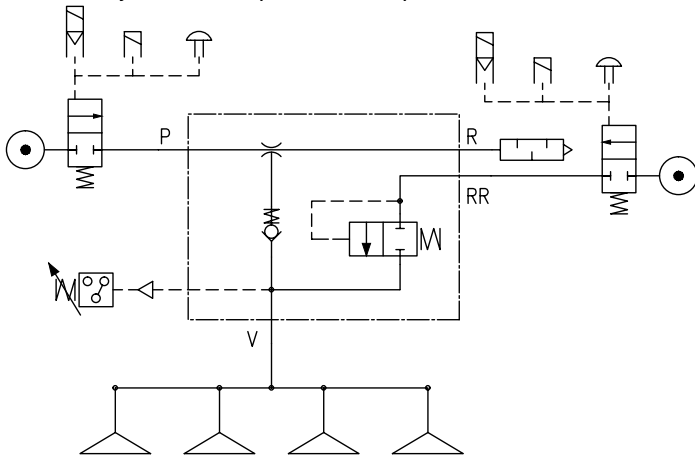
AVAC 2BV 20-60

Air Saving Automatic Function and increased safety

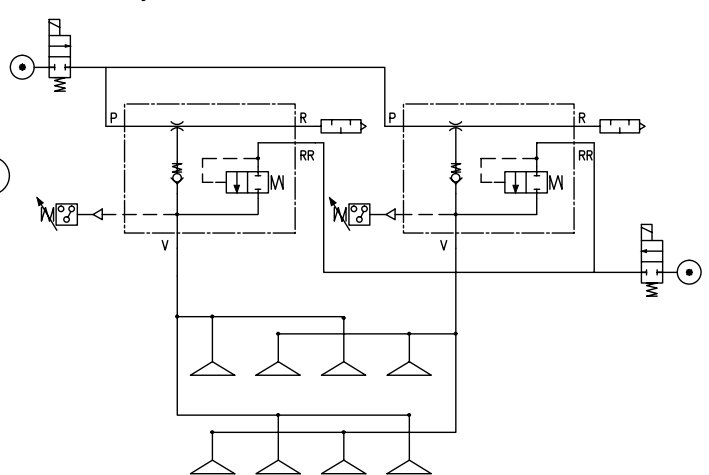
The safest option is to have one 2BV-ejector per suction cup thus minimizing the risk of leakage in connections, hose and the suction cups and the retained object. Nevertheless, there are sometimes reasons to deviate from this.

Safer lifting with one or two circuits

One 2BV-ejector to multiple suction cups



Double safety with two circuits



As an alternative to the 2/2 valves 3/2 valves can be used for Rapid Release (RR) due to the Blow Off Valve built into 2BV Ejector

Ejector 2BV is also available with integrated air saving device



2BV AIR SAVE. See page 68.

Operating Instructions
<http://www.avac.se/pdf/i-2BV.pdf>

