

Ejectors AVAC 20, 30, 50, 60, 120, 240, 420 and 720

with or without a RR connection (Rapid Release)

- > 85% vacuum at 4 bar supply pressure
- Very compact
- Low weight
- Quick response
- Controlled Rapid Release (RR)
- Connection for vacuum sensor, etc. (RR)
- No moving parts
- Robust
- Easy mounting

Our series ORIGINAL ejectors creates a high vacuum at over 85% using only low supply pressure of 4 bar. The internal design of the nozzle combined with the low supply pressure makes them extremely efficient with low energy consumption.

Rapid Release (RR) connection is used when a quick and controlled release signal of the held object is desired. It can also be used to connect other equipment such as a vacuum sensor, vacuum gauge or similar.

When the RR connection is not needed in the current application, please apply the supplied M5 and G1/8 plug into the connection.

**Materials**

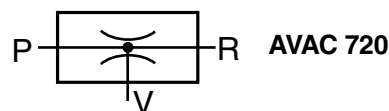
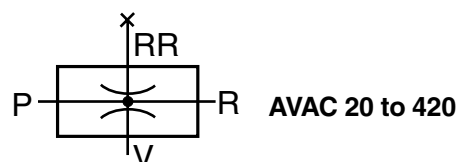
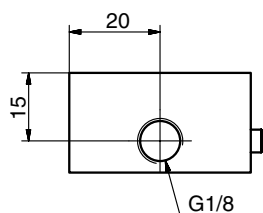
Body Black anodized aluminium
Nozzles Brass

Temperature

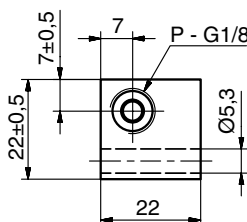
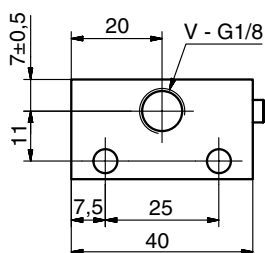
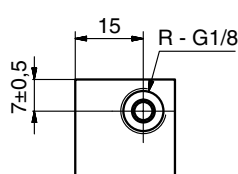
Temperature range -10 to +70 °C

Compressed air

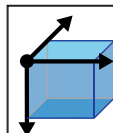
Pressure max 8 bar
Optimum supply pressure 4 bar

**AVAC 20-RR**

RR connection for blow off signal or the connection of other equipment.

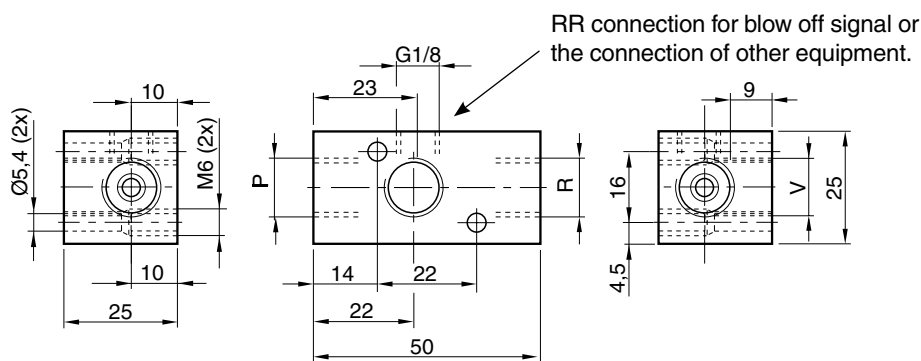


P = Air connection
V = Vacuum Connection
R = Exhaust
RR = Blow off (Rapid Release)

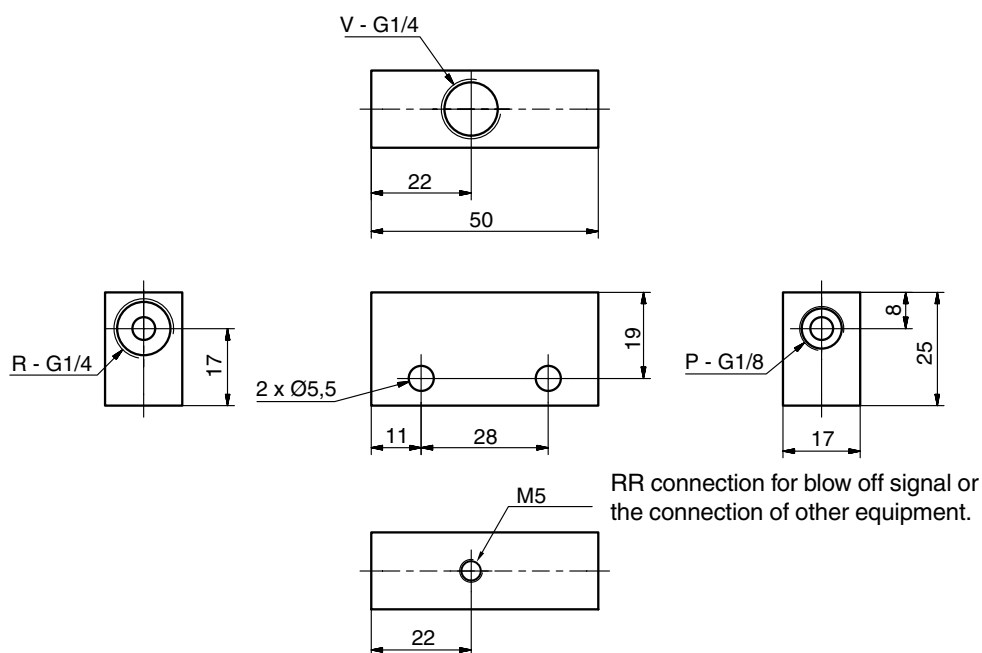
**3D CAD FILES (STEP)**

Log in and download via:
<http://avac.se/index.php/en/login-4>

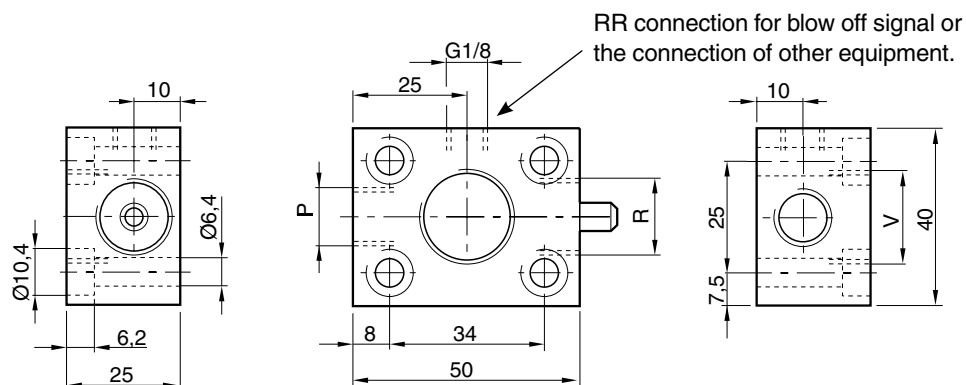
AVAC 30-RR



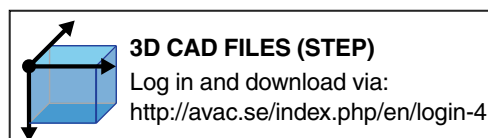
AVAC 50-RR



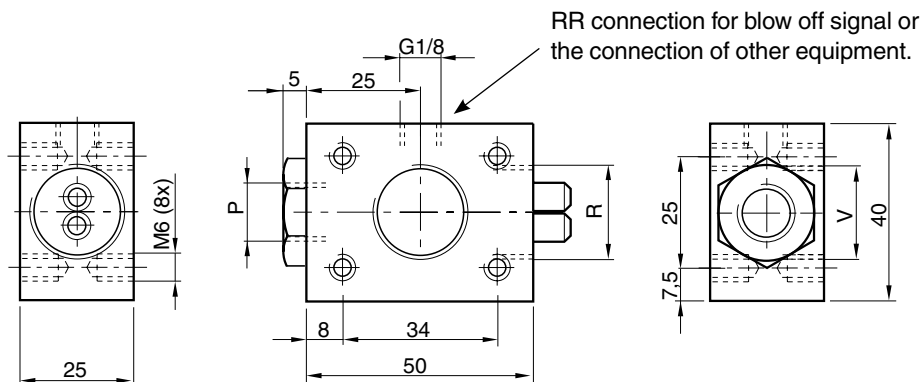
AVAC 60-RR



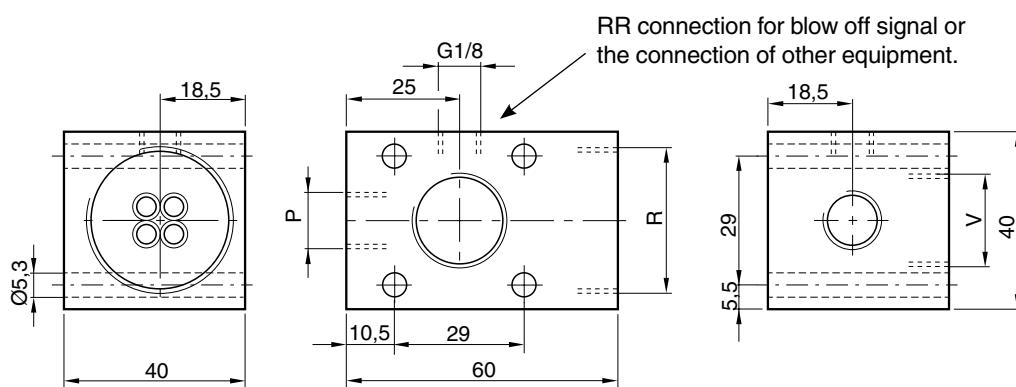
P = Air connection
 V = Vacuum Connection
 R = Exhaust
 RR = Blow off (Rapid Release)



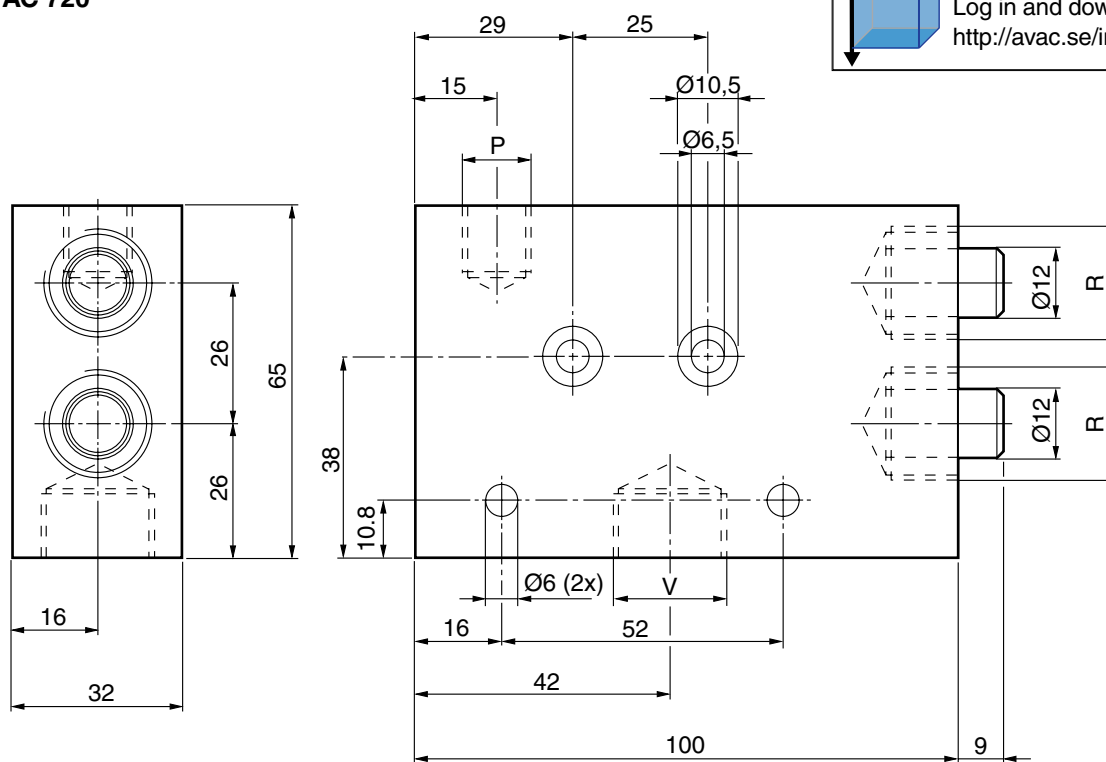
AVAC 120-RR



AVAC 240 and 420-RR



AVAC 720



3D CAD FILES (STEP)
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P = Air connection
 V = Vacuum Connection
 R = Exhaust
 RR = Blow off (Rapid Release)

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 20-RR	14.2	12.5	9.8	6.5	4.0	3.0	2.0	0.9	0.5	0.7
AVAC 30-RR	20.1	17.8	15.3	13.0	10.8	8.3	4.8	1.8	0.7	0.95
AVAC 50-RR	32.0	28.2	23.8	19.5	16.3	13.3	9.5	4.5	1.5	1.1
AVAC 60-RR	44.0	38.9	33.4	28.2	21.0	16.3	11.8	4.8	2.0	1.25
AVAC 120-RR	88.0	76.5	67.1	56.5	47.0	36.4	24.0	11.1	5.0	2 x 1.25
AVAC 240-RR	175.0	148.7	130.0	111.7	93.5	72.8	50.8	19.3	11.5	4 x 1.25
AVAC 420-RR	308.0	240.0	217.7	183.1	147.4	116.6	83.4	45.2	20.8	7 x 1.25
AVAC 720	441.0	343.0	294.0	248.0	188.0	133.0	96.0	51.0	25.0	2 x 3.1

Ejectors AVAC ORIGINAL

Designation	Connection threads				Air consumption NI/min.	Evacuation time (s)*	Weight g	Order no.
	P	V	R	RR				
AVAC 20-RR	G1/8	G1/8	G1/8	G1/8	20	9	45	110 020 01
AVAC 30-RR	G1/4	G1/4	G1/4	G1/8	30	6	72	110 030 01
AVAC 50-RR	G1/8	G1/4	G1/4	M5	50	4	45	110 050 01
AVAC 60-RR	G1/4	G1/2	G3/8	G1/8	60	3	105	110 060 01
AVAC 120-RR	G1/4	G1/2	G1/2	G1/8	120	1.5	110	110 120 01
AVAC 240-M-RR	G1/4	G1/2	G1	G1/8	240	0.7	225	110 241 01
AVAC 420-M-RR	G1/4	G1/2	G1	G1/8	420	0.4	240	110 421 01
AVAC 720**	G1/4	G1/2	2 x G1/2	-	720	0.25	560	110 720 00

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

** AVAC 720 is not equipped with an RR connection

All ejectors with RR connection are delivered with a G1/8 or M5 plug for use when the need for an RR connection is not in the application

Operating Instructions

<http://www.avac.se/pdf/I-ORIGINAL.pdf>



Blow Off Valve (Rapid Release) via RR port on ORIGINAL Ejectors

- A blow off signal is sent into the RR port directly from a 2/2 valve
- When a 3/2 valve is used as blow off signal a Blow Off Valve that is mounted to the RR connection has to be used
- When a 2/2 valve or 3/2 valve and a throttled blow off signal is used, a Blow Off Valve has to be mounted in the RR connection
- For more information see page 46.

