

Specifications on ARO Quick Exhaust Valves

Quick Exhaust Valves are used in pneumatic circuits to quickly exhaust air to atmosphere. These can be used with cylinders or pneumatic valves, where venting air to atmosphere can improve the process or application.

For instance, the faster air can be removed from a cylinder, the faster it can extend or retract.

In some applications, that speed is necessary.

The valve shown here has three ports:

Inlet: air coming from the directional control valve

Outlet: air being directed to the cylinder

Exhaust: air from the cylinder being vented to atmosphere.

This port is often larger than the other ports.



Flow Coefficient of a valve is referred to as Cv, or C-sub-v. This represents the volume of air that will flow through the valve. It can be used to correctly size equipment to meet the application requirements.

The chart below lists the Cv factor for the five Quick Exhaust Valves offered by ARO. Also listed are port sizes for each unit and their individual weights.

	Cv Factor:	Inlet:	Outlet:	Exhaust:	Weight:	Pressure:
EV125	1.05	1/8"	1/8"	1/4"	0.17 #	1-to-125-psi
EV250	2.00	1/4"	1/4"	3/8"	0.31	1-to-125-psi
EV375	2.58	3/8"	3/8"	3/8"	0.29	1-to-125-psi
EV30-A	6.22	1/2"	1/2"	3/4"	0.99	5-to-125-psi
EV35-A	6.58	3/4"	3/4"	3/4"	0.93	5-to-125-psi