Quick Exhaust Valve Application

In a typical application the exhaust valve is installed in the inlet of a spring return or double acting pneumatic cylinder.

Supply air from a control valve is directed into the inlet port of the exhaust valve. The Nitrile poppet seals the exhaust port and allows air to flow from the outlet port of the valve into the cylinder.

The pressurized air pushes against the piston and extends the rod, compressing the spring, until full rod extension is achieved.

Cylinder Extends

When the control valve exhausts air from the exhaust valve inlet port, the Nitrile poppet shifts to seal the inlet port and open the exhaust port to the cylinder. The pressurized air is allowed to exhaust directly through the exhaust valve to atmosphere.

Normally the air must travel back through the long air line to the control valve to exhaust. By mounting the exhaust valve directly on the cylinder, the piston retracts quickly since the distance to atmosphere is very short and unrestricted.

Cylinder Retracts - Fast!

Poppet Quick Exhaust Valve

Medium: Air
Material: Brass body, Nitrile poppet
Working Range: 15 to 150 psig
Air Flow: 5 scfm @ 50 psig; 9 scfm @ 100 psig (exhaust rate);
Mounting: Direct to cylinder
Pressure to Shift: @ 50 psig - opens after approx. 5 psig drop;
            @ 3.5 bar - opens after approx. 0.350 bar drop
Note: Not for use with cylinders larger than 7/8" dia.; moderate strokes up to 10"

Part No. Description
MEV-2 Poppet Type Quick Exhaust Valve, #10-32

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