Clippard Minimatic®

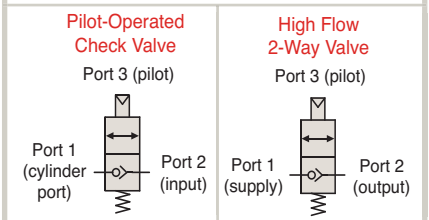
Technical Data Bulletin 6.11

Pilot-Operated Check Valve

Pilot-Operated Check Valves work as standard check valves, but can be opened with an air pilot signal to permit free flow in the normally "checked" direction. The Clippard Pilot-Operated Check Valve provides the user with a reliable method to check flow in one direction, with the ability to remotely signal a free flow through the valve. Ideal for any circuit that requires this useful function—all in one valve that is easy to connect!

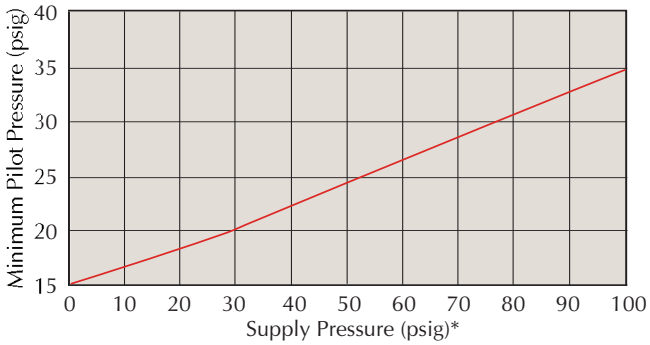
Medium: Air, Water or Oil
Pressure Range: 0 to 300 psig; 0 to 21 bar (see chart below)
Temperature Range: 32 to 230°F (0 to 110°C)
Materials: ENP brass, anodized aluminum, stainless steel, Buna-N seals

Function/Porting Options



- *High flow valve means low pressure drop*
- *Uses Clippard's superior poppet design*
- *Variety of port configurations available*
- *"Auxiliary" port allows ease of plumbing*
- *Side port (port 2) rotates for ease of positioning*

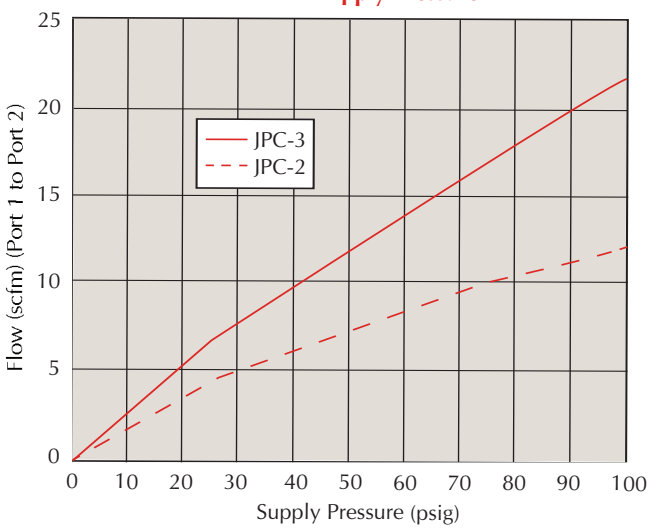
Minimum Pilot-to-Supply Pressure



** For Pilot-to-Supply pressure above 100 psig, please contact the factory*

The below circuit depicts a pneumatic cylinder being held in place at any location along its stroke. The use of the Clippard Pilot-Operated Check Valve is the key to position control in this application. Auxiliary porting also simplifies connections and reduces the need for extra fittings.

Flow-to-Supply Pressure



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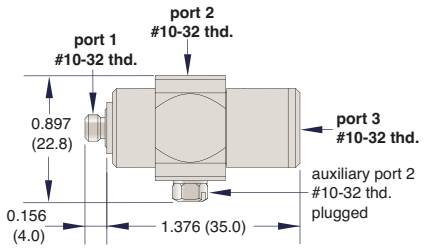
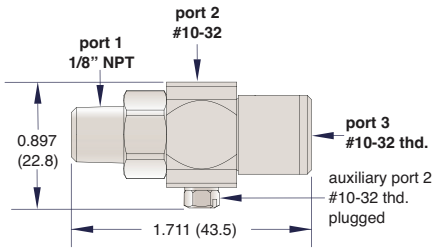
Models Available

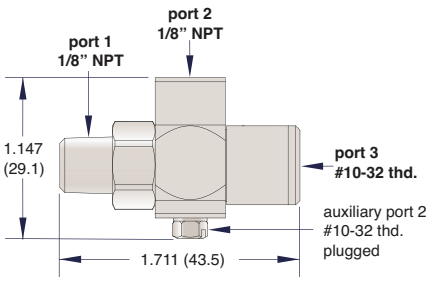
Part No.: JPC-2NLN



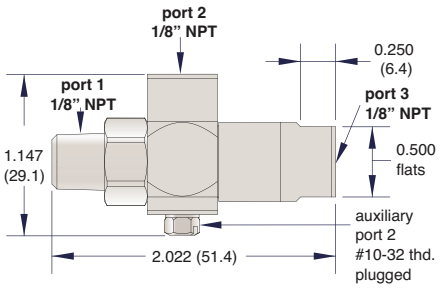
Part No.: JPC-2NPN



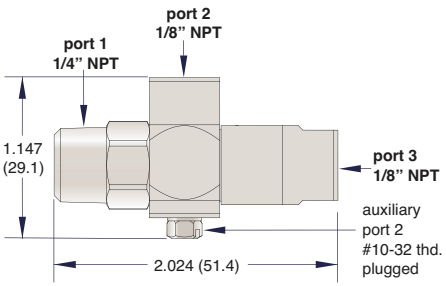
Part No.: JPC-3FPN



Part No.: JPC-3FPF



Part No.: JPC-3FQF



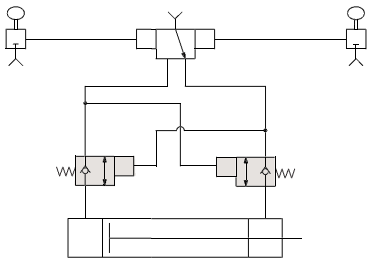
Options

Use the following part numbers for corrosion-resistant applications (ENP brass body):

- CR-JPC-3FPN
- CR-JPC-3FPF
- CR-JPC-3FQF

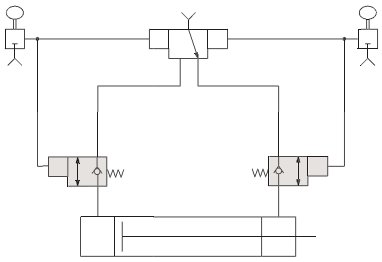
For specialty options such as various seal materials, manual override, or specific pilot to supply ratios, please consult factory.

Sample Uses (Simplified Symbols)



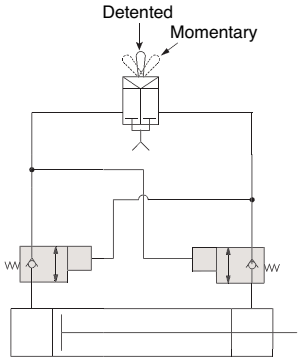
Air Loss Lock

Allows cylinder to lock in position in the event of air loss.



Position Adjustment

Adjust your cylinder position left or right by integrating JPCs to lock a cylinder when signal is not present.



Simplified Position Adjustment

Utilizes Clippard's TV-4 3-position toggle valve to move a cylinder to any position.

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