

Solar container tank type hydraulic check valve

<div class="df_qntext">What is a pilot to open check valve?

This valve is a pilot to open check valve. It has a sealed pilot, a steel seat, and is non-vented. It allows free flow from the valve (port 2) to the load (port 1) and blocks flow in the opposite direction. Pressure at the pilot (port 3) will open the valve from port 1 to port 2.

<div class="df_qntext">Does Sun have a tighter leakage specification on soft seated valves?

Originally, Sun had a tighter leakage specification on soft-seated valves. However, when we made the decision to promote the steel seated valves instead of soft seats, we tightened the leakage specifications of the steel seat valves to match.

<div class="df_qntext">What psi do you need to open a pilot-to-open check valve?

To open a pilot-to-open check valve with 30 psi (2 bar) at port 1, 55 psi (3.8 bar) of pilot pressure is required at port 3; this equates to a 0.5:1 effective pilot ratio. Direct acting or pilot operated - what do I use? Direct-acting valves are used to prevent over pressure, and pilot-operated valves are used to regulate pressure.

<div class="df_qntext">Where should a pilot-to-open check valve be mounted?

Generally, pilot-to-open check valves should be mounted as close to the actuator as possible to provide maximum protection in the event of hydraulic hose or line failure. Sun offers many mounting configurations that will accomplish this.

<div class="df_qntext">Are sun valves good?

Sun's direct acting valves are very fast, dirt tolerant, stable, and robust. Sun's pilot-operated valves are moderately fast, they have a low pressure rise vs. flow curve, and they are easy to adjust. What about intensification?

<div class="df_qntext">Can a pilot-to-open check valve control a high ratio cylinder?

A pilot-to-open check valve is either open or closed; it does not modulate. If you try to use a pilot-to-open check valve to control an over-running load, a severe ratcheting movement of the actuator is likely to occur. What should I do if I need load holding on the rod of a high ratio cylinder? Use a counterbalance valve.

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Learn the essential precautions for using hydraulic check valves in hydraulic systems. Discover how to ensure



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optimal performance, prevent common faults, and ensure proper installation ...

Hydraulic check valves are quite unique, they are one of the only types of valve that does not require any human intervention to operate. Hydraulic check valves are completely self-automated. Hydraulic ...

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