JUNE 2014

PTFE O-Rings in Check Valves

One of the optional O-ring materials that we have offered for many years in check valves is PTFE. Customers have occasionally reported seat leakage and have returned products because of seat leakage with PTFE O-rings.

Be aware that check valves with PTFE O-rings are not intended to provide leak-tight performance because the PTFE O-rings are harder than standard elastomer O-rings. Leakage may occur across the seat regardless of the spring used and may not reseal leak-tight unless high back pressure is applied. We do not have charts that describe what ranges of pressures are necessary to reseal.

If leak-tight performance is required, the customer should consider an elastomer material that is compatible with the system fluid. Please review this information with customer when considering a PTFE O-ring.

For additional information contact:
Swagelok Company
29495 F.A. Lennon Drive
Solon, OH 44139
(440)349-5600

Swagelok–TM Swagelok Company ® 2014 Swagelok Company