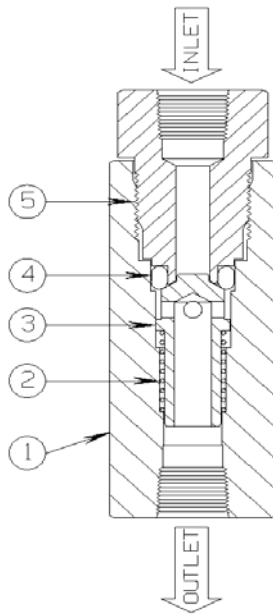


Check Valve

Hydraulic

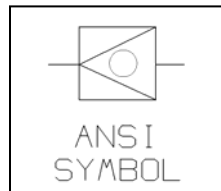
1/4" FEMALE NPT, 2,000 PSI, H2S SVC

Model 14KS42



The **14KS Check Valve** is a two position, spring biased poppet operated flow control device that permits Inlet to Outlet flow only. Our Check or Flow Safety Valve (FSV) prevents reverse pressure flow (from Outlet to Inlet), through spring assisted poppet positioning.

Check Valves are of critical importance in high pressure, hydraulic fluid operated control circuits that operate Surface Safety Valves (SSV) and Subsurface Controlled Safety Valves (SCSSV). Check Valves are also frequently used in closed loop control circuits, process or production lines, down stream of pumps and also in compressed air and gas engineering.



PARTS LIST:

1. Valve Body
2. Spring *
3. Valve Poppet
4. Viton O Ring *
5. Inlet Retainer

* Indicates parts included in a Repair Kit

Sigma Model Number 14KS42

CHECK VALVE, HYDRAULIC, 1/4" FEMALE NPT, 2,000 PSI, H2S SVC

Product Specifications

Flow Control Application: Normally Open

Control Function: Directional Flow Control, Inlet to Outlet only

Pressure Rating Body: 2,000 PSI maximum (138 bar)

Seal Material: Viton O Ring Seat

Connection Size:

- 14KS42 - 1/4-18 Female N.P.T. Inlet and Outlet
- 14KS43 - 1/2-14 Female N.P.T. Inlet and Outlet
- 14KS44 - 3/4-14 Female N.P.T. Inlet and Outlet
- 14KS45 - 1 Female N.P.T. Inlet and Outlet

Wetted Component Material (Metal): 316 stainless steel and 17-4PH SS

Mounting: Field Mount (Standard)

Orifice:

- 14KS42 (1/4 NPT) = .86
- 14KS43 (1/2 NPT) = 1.62
- 14KS44 (3/4 NPT) = 7.39
- 14KS45 (1 NPT) = 8.85

Operating Temperature: -20° F to +250° F (-29° C to +121° C)

Overall Dimensions:

- 14KS42 - 1-1/4 Hex x 3-1/2 Length (3.18 cm Hex x 8.89 cm Length)
- 14KS43 - 1-3/4 Hex x 4-7/8 Length (4.45 cm Hex x 12.38 cm Length)
- 14KS44 - 2-1/8 Diameter x 6-3/8 Length (5.40 cm Diameter x 16.19 cm Length)
- 14KS45 - 2-1/2 Diameter x 7-1/8 Length (6.35 cm Diameter x 18.10 cm Length)

Pressure Equipment Directive (PED): This product conforms to the SEP Category of the European P.E.D.

Installation and Maintenance Instructions:

Install between two control devices insuring the flow direction is "Inlet" to "Outlet". Sigma recommends the use of appropriate thread sealant for each port connection.

Shelf Position Port Status

Inlet Instrument supply inlet pressure open to outlet port
Outlet Outlet to Inlet blocked (no reverse flow)

Repair Kit Information

Repair Kits contain all of the Seals and other components typically replaced when repairing the assembly. In order to maintain optimum operating control function.