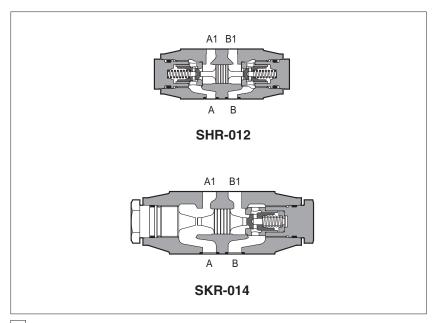


Modular check valves type SHR, SKR

direct or pilot operated, ISO 4401 sizes 06 and 10



SHR, SKR are check valves available in direct or pilot operated models.

SHR-0 = size 06: flow up to 60 l/min, pressure up to 350 bar.

SKR-0 = size 10: flow up to 120 l/min, pressure up to 315 bar.

Valves are designed to operate in hydraulic systems with hydraulic mineral oil or synthetic fluid having similar lubricating characteristics.

1 MODEL CODE

SHR-0

Modular check valve, size:

SHR-0 = 06

SKR-0 = 10

Configuration, see section 2

direct operated:

02 = double, acting on port A and B

03 = single, acting on port A

04 = single, acting on port B

11 = single, acting on port P 16 = single, acting on port T

12

pilot operated:

12 = double, acting on port A and B

13 = single, acting on port A

14 = single, acting on port B

Seals material, see section 3:

PE = FKM BT = HNBR

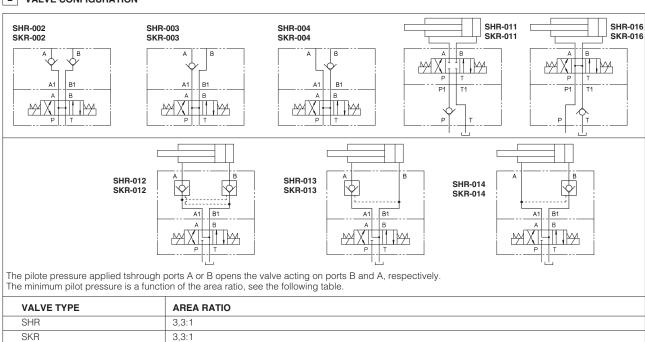
Series number

Spring cracking pressure:

- = 0,5 bar (std.) 4 = 4 bar

2 = 2 bar 8 = 8 bar

2 VALVE CONFIGURATION



3 MAIN CHARACTERISTICS, SEALS and HYDRAULIC FLUID - for other fluids not included in below table, consult our technical office

| Assembly position / location | Any position | | |
|--|--|----------------------------|---------------|
| Subplate surface finishing | Roughness index Ra 0,4 - flatness ratio 0,01/100 (ISO 1101) | | |
| MTTFd values according to EN ISO 13849 | 150 years, for further details see technical table P007 | | |
| Ambient temperature | Standard execution = -30°C ÷ +70°C /PE option = -20°C ÷ +70°C /BT option = -40°C ÷ +70°C | | |
| Seals, recommended fluid temperature | NBR seals (standard) = -20° C \div $+80^{\circ}$ C, with HFC hydraulic fluids = -20° C \div $+50^{\circ}$ C FKM seals (/PE option)= -20° C \div $+80^{\circ}$ C HNBR seals (/BT option)= -40° C \div $+60^{\circ}$ C, with HFC hydraulic fluids = -40° C \div $+50^{\circ}$ C | | |
| Recommended viscosity | 15÷100 mm²/s - max allowed range 2.8 ÷ 500 mm²/s | | |
| Max fluid contamination level | ISO4406 class 20/18/15 NAS1638 class 9, see also filter section at www.atos.com or KTF catalog | | |
| Hydraulic fluid | Suitable seals type | Classification | Ref. Standard |
| Mineral oils | NBR, FKM, HNBR | HL, HLP, HLPD, HVLP, HVLPD | DIN 51524 |
| Flame resistant without water | FKM | HFDU, HFDR | ISO 12922 |
| Flame resistant with water | NBR, HNBR | HFC | |

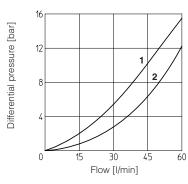
4 DIAGRAMS OF SHR-0 based on mineral oil ISO VG 46 at 50°C

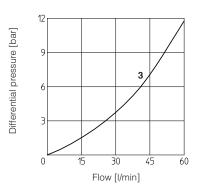
Flow through check valve:

 $1 = A \rightarrow A_1$; $B \rightarrow B_1$ of SHR-012, SHR-013, SHR-014

 $2 = A_1 \rightarrow A$; $B_1 \rightarrow B$ of SHR-012, SHR-013, SHR-014

3 = SHR-011, SHR-016





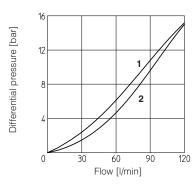
5 DIAGRAMS OF SKR-0 based on mineral oil ISO VG 46 at 50°C

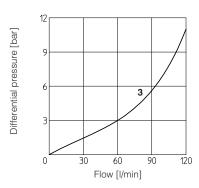
Flow through check valve:

 $1 = A \rightarrow A_1$; $B \rightarrow B_1$ of SKR-012, SKR-013, SKR-014

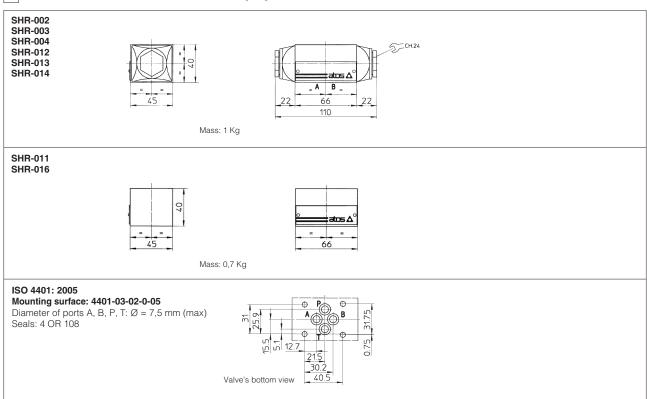
 $2 = A_1 \rightarrow A$; $B_1 \rightarrow B$ of SKR-012, SKR-013, SKR-014

3 = SKR-011, SKR-016





6 INSTALLATION DIMENSIONS OF SHR-0 VALVES [mm]



Fastening bolts: nº 4 socket head screws M5. The length depends on number and type of modular elements associated.

7 INSTALLATION DIMENSIONS OF SKR-0 VALVES [mm]

