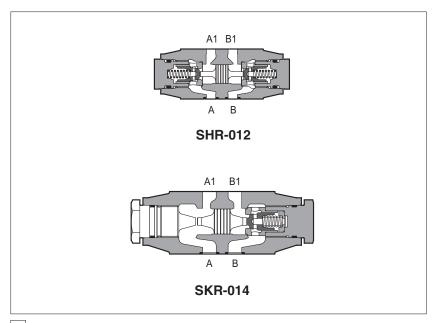


Modular check valves type SHR, SKR

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

pilot operated:

12 = double, acting on port A and B

12

13 = single, acting on port A

14 = single, acting on port B

Seals material, see section 3:

PE = FKM BT = HNBR

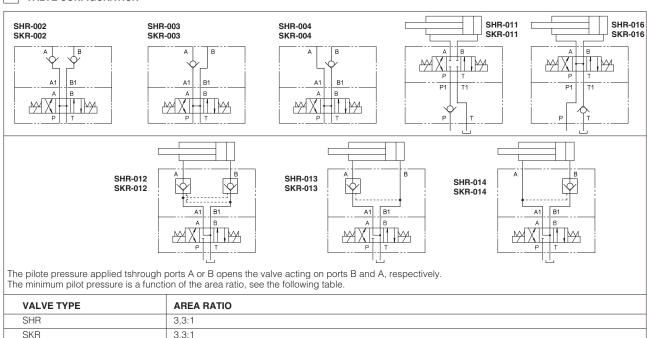
Series number

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°C, with HFC hydraulic fluids = -20°C \div +50°C FKM seals (/PE option)= -20°C \div +80°C HNBR seals (/BT option)= -40°C \div +60°C, with HFC hydraulic fluids = -40°C \div +50°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	

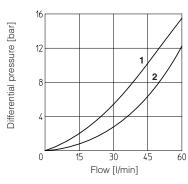
4 DIAGRAMS OF SHR-0 based on mineral oil ISO VG 46 at 50°C

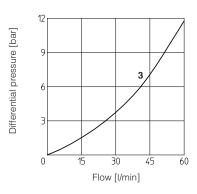
Flow through check valve:

 $1 = A \rightarrow A_1$; $B \rightarrow B_1$ 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





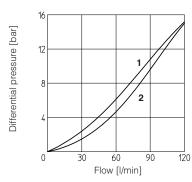
5 DIAGRAMS OF SKR-0 based on mineral oil ISO VG 46 at 50°C

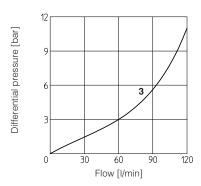
Flow through check valve:

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

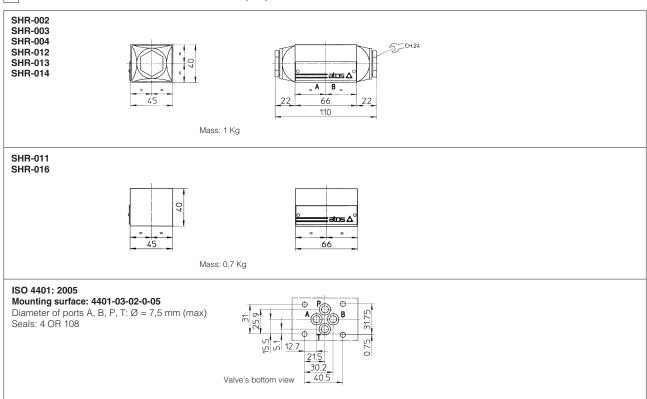
 $2 = A_1 \rightarrow A$; $B_1 \rightarrow B$ of SKR-012, SKR-013, SKR-014

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]

