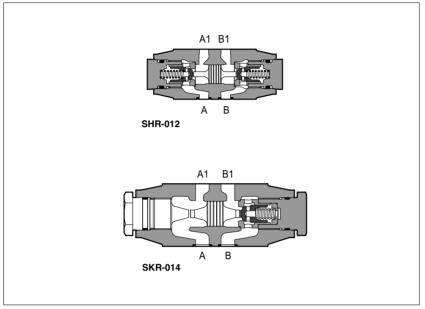


# Modular check valves type SHR, SKR

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 I/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

16 = single, acting on port T

11 = single, acting on port P

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:

- = NBR **PE** = FKM

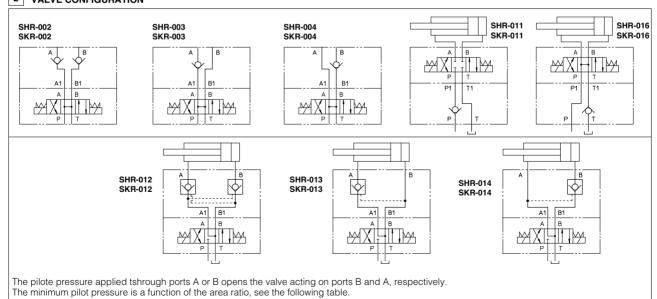
Series number

Spring cracking pressure:

- = 0,5 bar (std.)

**2** = 2 bar **8** = 8 bar

# 2 VALVE CONFIGURATION



VALVE TYPE	AREA RATIO
SHR	3,3:1
SKR	3,3:1

# 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 ÷ +80°C, with HFC hydraulic fluids = -20°C ÷ +50°C FKM seals (/PE option)= -20°C ÷ +80°C HNBR seals (/BT option)= -40°C ÷ +60°C, with HFC hydraulic fluids = -40°C ÷ +50°C			
Recommended viscosity	15÷100 mm²/s - max allowed range 2.8 ÷ 500 mm²/s			
Fluid contamination class	ISO 4406 class 21/19/16 NAS 1638 class 10, achievable with in line filters - 25 μm (β10 ≥75 recommended)			
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	100 1000	
Flame resistant with water	NBR, HNBR	HFC	ISO 12922	

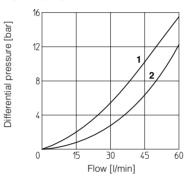
## 4 DIAGRAMS OF SHR-0 based on mineral oil ISO VG 46 at 50°C

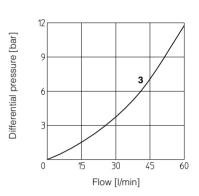
Flow through check valve:

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

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

**3** = SHR-011, SHR-016





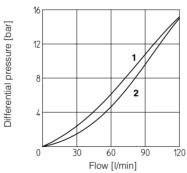
### 5 DIAGRAMS OF SKR-0 based on mineral oil ISO VG 46 at 50°C

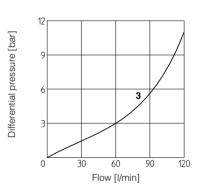
Flow through check valve:

**1** = A→A1; B→B1 of SKR-012, SKR-013, SKR-014

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

**3** = SKR-011, SKR-016





### 6 INSTALLATION DIMENSIONS OF SHR-0 VALVES [mm]

