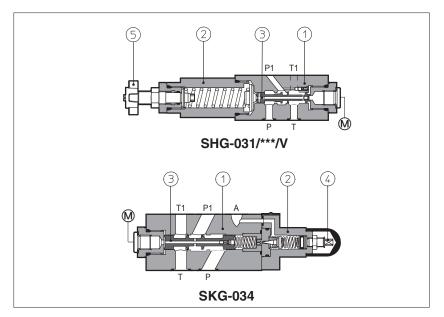


# Modular reducing valves type SHG, SKG

spool type, ISO 4401 sizes 06 and 10



**SHG** and **SKG** are pressure reducing valves, spool type ③, designed to operate in oil hydraulic systems.

SHG are direct, three way valves;

SKG are double stage ① ②, three way valves;

Clockwise rotation increases the pressure.

Valve size and max flow:

**SHG** = size 06 flow up to 50 l/min; **SKG** = size 10 flow up to 100 l/min;

Mounting surface:

ISO 4401 size 06 and 10

Max pressure: **350 bar** for SHG **315 bar** for SKG

# 1 MODEL CODE

SHG-0

Modular pressure reducing valve, size:
SHG-0 = 06
SKG-0 = 10

Configuration, see section 2

three way:

**31** = reduced pressure on P port

**33** = reduced pressure on A port

34 = reduced pressure on B port

/ 210



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Series number

Seals material, see sect. 3:
- = NBR
PE = FKM
BT = HNBR

Options:

V = setting adjustment by handwheel instead of a grub screw protected by cap

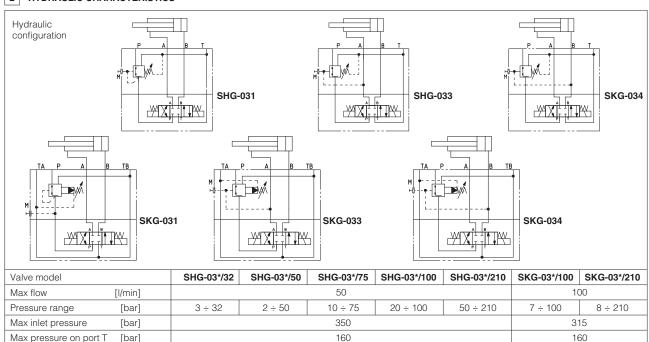
Pressure range

SHG

**32** = 3 - 32 bar **100** = 20 - 100 bar **50** = 2 - 50 bar **210** = 50 - 210 bar **75** = 10 - 75 bar

**SKG 100** = 7 - 100 bar **210** = 8 - 210 bar

## 2 HYDRAULIC CHARACTERISTICS

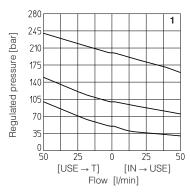


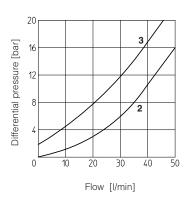
#### 3 MAIN CHARACTERISTICS, SEALS and HYDRAULIC FLUID - for other fluids not included in below table, consult our technical office

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 (SHG) 75 years (SKG), 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) = $-20^{\circ}\text{C} \div +80^{\circ}\text{C}$ , with HFC hydraulic fluids = $-20^{\circ}\text{C} \div +50^{\circ}\text{C}$ FKM seals (/PE option)= $-20^{\circ}\text{C} \div +80^{\circ}\text{C}$ HNBR seals (/BT option)= $-40^{\circ}\text{C} \div +60^{\circ}\text{C}$ , with HFC hydraulic fluids = $-40^{\circ}\text{C} \div +50^{\circ}\text{C}$		
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 SHG-03\* based on mineral oil ISO VG 46 at 50°C

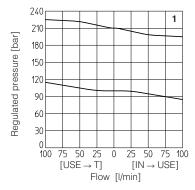
- 1 = regulated pressure variation versus flow:
  - between use port and discharge port
  - between inlet port and use port
- 2 = differential pressure variation versus flow between inlet port and use port
- 3 = differential pressure variation versus flow between use port and discharge port

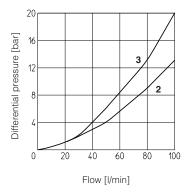




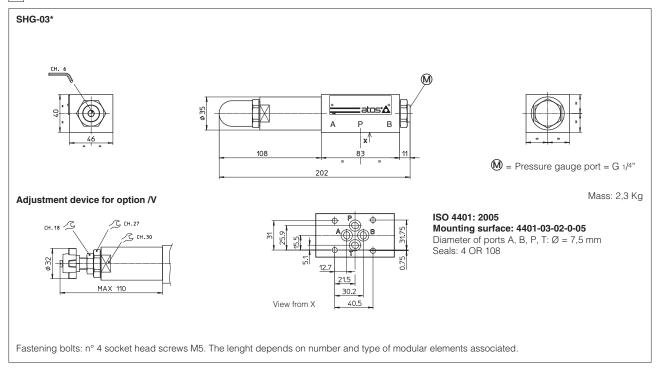
#### 5 DIAGRAMS OF SKG-03\* based on mineral oil ISO VG 46 at 50°C

- 1 = regulated pressure variation versus flow:
  - between use port and discharge port
  - between inlet port and use port
- 2 = differential pressure variation versus flow between inlet port and use port
- 3 = differential pressure variation versus flow between use port and discharge port





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



# 7 INSTALLATION DIMENSIONS OF SKG-0 VALVES [mm]

