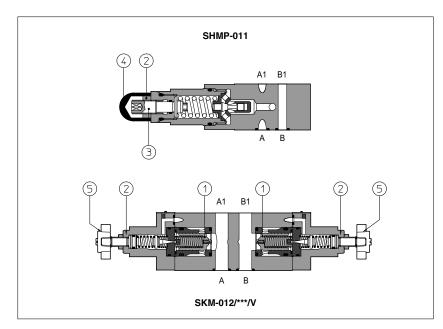


Modular relief valves type SHMP, SKM

ISO 4401 sizes 06 and 10



SHMP are direct operated pressure relief valves, size 06.

SKM are double stage pressure relief valves size 10 with balanced poppet 1).

The pressure adjustment is operated by loosening the locking nut 2 and turning the screw 3 protected by cap 4. Optional versions with setting adjustment by handwheel (5) instead of the screw are available on request. Clockwise rotation increases the pres-

Valve size and max flow:

SHMP = size 06, max flow: 35 l/min **SKM** = size 10, max flow: 120 l/min

Mounting surface: ISO 4401 size 06, 10 Max pressure: up to 350 bar

1 MODEL CODE

SHMP Modular pressure relief valve size: SHMP = 06SKM = 10

Configuration, see section 2

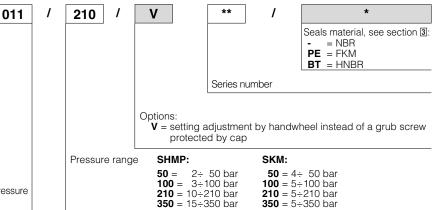
011 = single on port P, dicharge to port T

012 = double on ports A and B, discharge to port T

013 = single on port A, discharge to port T

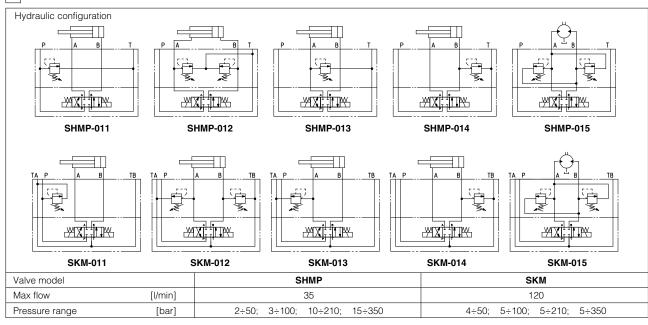
014 = single on port B, discharge to port T

015 = double on ports A and B, with the relieved pressure cross-discharged



210 = 10÷210 bar **350** = 15÷350 bar

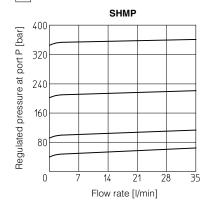
2 HYDRAULIC CHARACTERISTICS

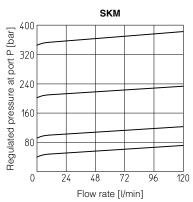


3 MAIN CHARACTERISTICS, SEALS and HYDRAULIC FLUIDS - for other fluids not included in below table, consult our technical office

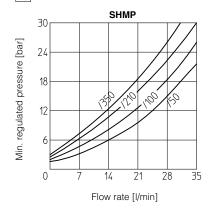
Assembly position / location	Any position		
Subplate surface finishing	Roughness index Ra 0,4 - flatness ratio 0,01/100 (ISO 1101)		
MTTFd values according to EN ISO 13849	150 years, for further details see technical table P007		
Ambient temperature	Standard execution = -30°C ÷ +70°C /PE option = -20°C ÷ +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 FSKM 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		
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, FSKM, HNBR	HL, HLP, HLPD, HVLP, HVLPD	DIN 51524
Flame resistant without water	FSKM	HFDU, HFDR	ISO 12922
Flame resistant with water	NBR, HNBR	HFC	

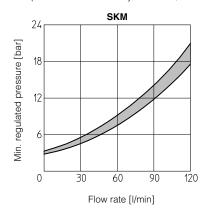
4 REGULATED PRESSURE VERSUS FLOW DIAGRAMS (Based on mineral oil ISO VG 46 at 50°C)



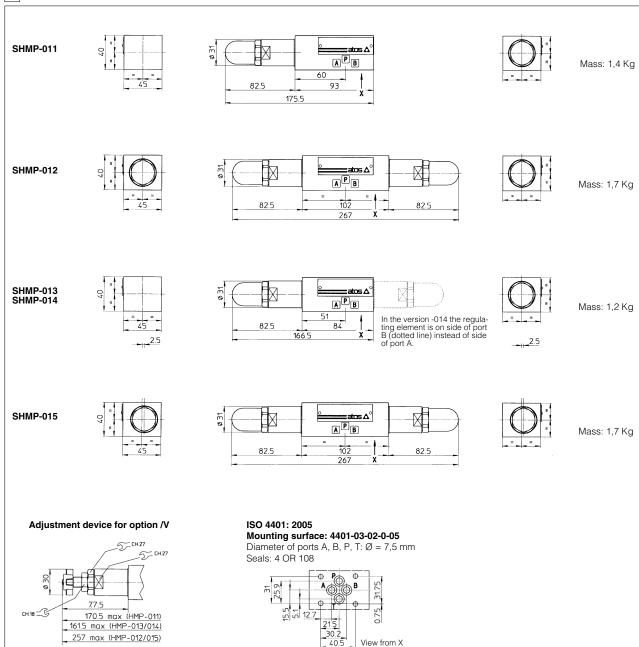


5 MINIMUM PRESSURE VERSUS FLOW DIAGRAMS (Based on fluid viscosity of 25 mm²/s at 40°C)





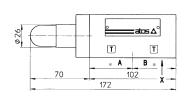
6 INSTALLATION DIMENSIONS OF SHMP VALVES [mm]



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

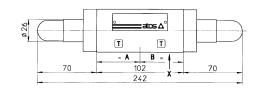
8 INSTALLATION DIMENSIONS OF SKM VALVES [mm]

SKM-011 SKM-012





Mass: 2,5 Kg

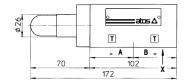




Mass: 2,8 Kg





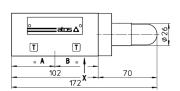




Mass: 2,5 Kg



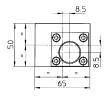


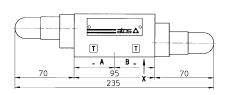


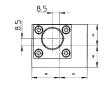


Mass: 2,5 Kg

SKM-015

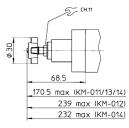


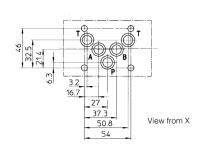




Mass: 2,5 Kg

Adjustement device for option /V





ISO 4401: 2005 Mounting surface: 4401-05-04-0-05 Diameter of ports A, B, P, T: Ø = 11,2 mm Seals: 5 OR 2050

Fastening bolts: nº 4 socket head screws M6. The length depends on number and type of modular elements associated.