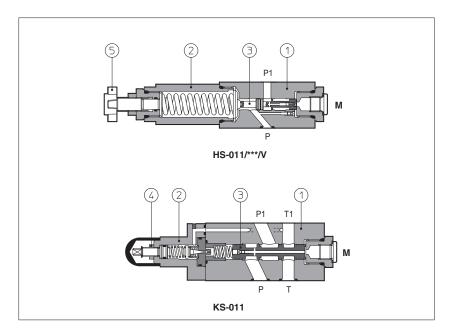


# Modular sequence valves type HS-011 and KS-011

spool type, ISO 4401 size 06 and 10



HS are direct sequence valves, spool type 3.

KS are double stage 1 2 sequence valves, spool type 3.

Pressure adjustment is operated by loosening the locking nut 4 and turning the setting screw in the normal model.

Optional versions with a handwheel (5) are available on request.

Clockwise rotation increases the pressure.

Valve size and max flow:

**HS** = size 06, flow up to 40 l/min KS = size 10, flow up to 80 l/min

Mounting surface: ISO 4401 size 06, 10 Max pressure: 350 bar (HS) 315 bar (KS)

#### 1 MODEL CODE

011 HS Modular sequence valve, size: **HS** = 06 **KS** = 10 Configuration, see section 2 011 = single, acting on port P, drain to port T

Pressure range:

for HS: for KS:

32 = 3 - 32 bar

Max inlet pressure

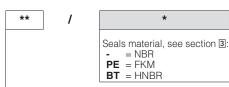
Max pressure on port T

[bar]

[bar]

= 20 - 100 bar = 7 - 100 bar = 50 - 210 bar 210= 8 - 210 bar

210



Series number

Options:

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

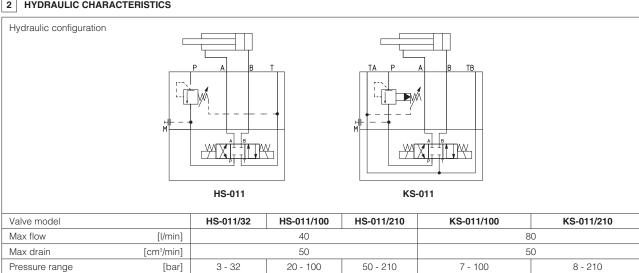
315

160

Only for HS:

VF = regulating knobVS = regulating knob with safety locking

### 2 HYDRAULIC CHARACTERISTICS



350

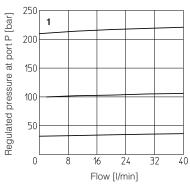
160

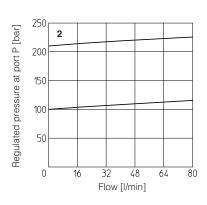
#### 3 MAIN CHARACTERISTICS SEALS and HYDRAULIC FLUIDS - for other fluids not included in below table, consult our technical office

Assembly position / location	Any position		
Subplate surface finishing	Roughness index Ra 0,4 - flatness ratio 0,01/100 (ISO 1101)		
Compliance	RoHS Directive 2011/65/EU as last update by 2015/65/EU REACH Regulation (EC) n°1907/2006		
Ambient temperature	<b>Standard</b> = $-30^{\circ}$ C ÷ $+70^{\circ}$ C <b>/PE</b> option = $-20^{\circ}$ C ÷ $+70^{\circ}$ C <b>/BT</b> option = $-40^{\circ}$ C ÷ $+70^{\circ}$ C		
Seals, recommended fluid temperature	NBR seals (standard) = -20°C $\div$ +60°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 REGULATED PRESSURE VERSUS FLOW DIAGRAMS based on mineral oil ISO VG 46 at 50°C

**1** = HS **2** = KS

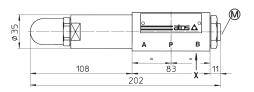




# 5 INSTALLATION DIMENSIONS [mm]



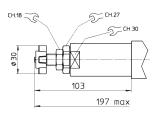




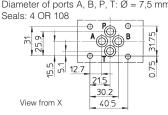


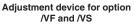
M = Pressure gauge port = G 1/4"

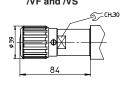
#### Adjustment device for option/V





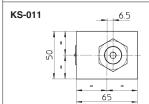




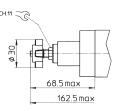


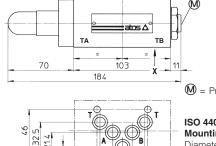
Fastening bolts: n°4 socket head screws M5. The lenght depends on number and type of modular elements associated.

Mass: 2 Kg



## Adjustment device for option/V







M = Pressure gauge port = G 1/4"

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: n°4 socket head screws M6. The lenght depends on number and type of modular elements associated.

View from X

Mass: 3 Kg