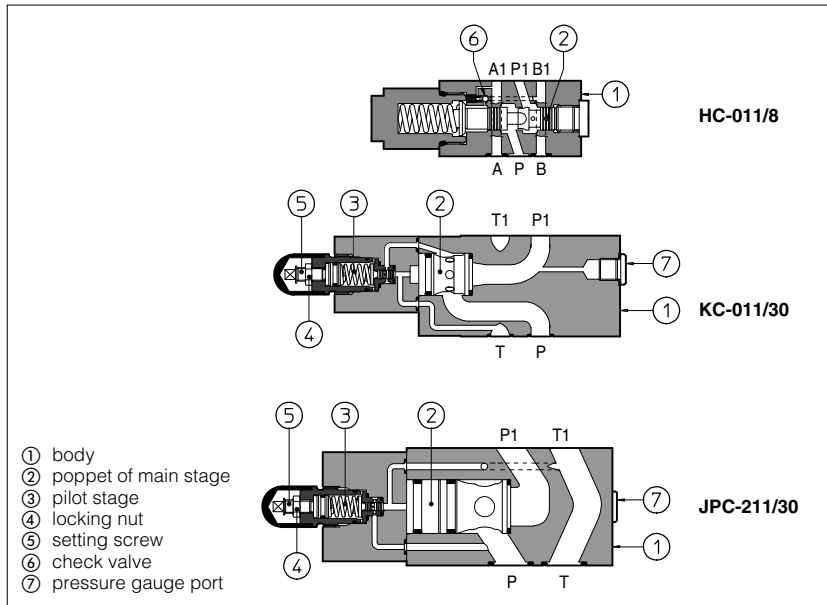


Modular pressure compensators type HC, KC, and JPC-2

ISO 4401 sizes 06, 10 and 16



HC, KC and JPC are two way pressure compensators for modular assembling with on/off and proportional directional control valves.

They keep a constant differential pressure (Δp) across port P and port A or B in order to maintain a constant flow rate against pressure variations. Automatic piloting selection ⑥ is included.

Fixed Δp is available only for size 06. Adjustment of desired Δp is operated by loosening the locking nut ④ and turning the setting screw ⑤ of pilot device. Clockwise rotation increases Δp .

HC = ISO 4401 size 06 interface: flow up to 50 l/min.

KC = ISO 4401 size 10 interface: flow up to 100 l/min.

JPC = ISO 4401 size 16 interface: flow up to 200 l/min.

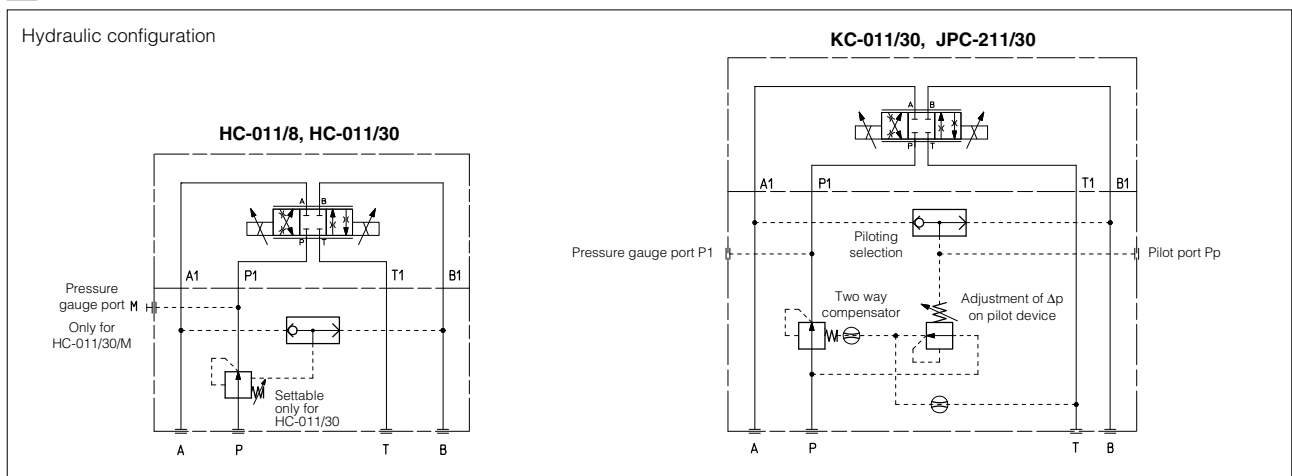
Max inlet pressure up to 350 bar.

Valves are designed to operate in hydraulic systems with hydraulic mineral oil or synthetic fluid having similar lubricating characteristics.

1 MODEL CODE

HC-0	-	11	/	30	/M	**	/*
Modular pressure compensator, size: HC-0 = 06 KC-0 = 10 JPC-2 = 16						Synthetic fluids: WG = water-glycol PE = phosphate ester	
Configuration, see section 2 11 = two way execution with constant Δp between P port and user port						Series number	
Fixed Δp (only for size 06): 8 = 8 bar							
Adjustable Δp (for all sizes): 30 = 5 - 35 bar				Option (only for HC-011/30) /M = fit for manometer port P1			

2 HYDRAULIC CHARACTERISTICS



Valve model		HC-011/8	HC-011/30	KC-011/30	JPC-211/30
Max flow	[l/min]		50	100	200
Max inlet pressure	[bar]		350		
Regulating Δp (1)	[bar]	8	5 - 35	5 - 35	

(1) The Δp for single flow path is fixed at 8 bar or is adjustable between 5 and 35 bar; it corresponds to values of total Δp across the valve of 16 bar or between 10 and 70 bar. Threaded plugged ports Pp and P1 are suitable for pressure adjustment or check of Δp value for single flow path (reading difference between Pp and P1 values).

3 MAIN CHARACTERISTICS OF PRESSURE COMPENSATORS TYPE HC, KC, JPC

Assembly position	Any position
Subplate surface finishing	Roughness index $\sqrt{0,4}$, flatness ratio 0,01/100 (ISO 1101)
Ambient temperature	-20°C to + 70°C
Fluid	Hydraulic oil as per DIN 51524...535, for other fluids see section I
Recommended viscosity	15 ÷ 100 mm ² /s at 40°C (ISO VG 15 ÷ 100)
Fluid contamination class	ISO 19/16, achieved with in line filters at 25 µm value and $\beta_{25} \geq 75$ (recommended)
Fluid temperature	-20°C +60°C (standard and /WG seals) -20°C +80°C (/PE seals)

4 INSTALLATION DIMENSIONS [mm]

HC-011/8

Mass: 1,9 Kg

HC-011/30

Mass: 2 Kg

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

ISO 4401: 2005
Mounting surface: 4401-03-02-0-05
Diameter of ports
A, B, P, T: Ø = 7,5 mm (max)
Seals: 4 OR 108

KC

Mass: 4,2 Kg

ISO 4401: 2005
Mounting surface: 4401-05-04-0-05
Diameter of ports
A, B, P, T: Ø = 11,2 mm (max)
Seals: 2 OR 108, 5 OR 2050

JPC

Mass: 6 Kg

ISO 4401: 2005
Mounting surface: 4401-07-07-0-05
Diameter of ports
A, B, P, T: Ø = 20 mm
Diameter of ports X, Y: Ø = 7 mm
Seals: 4 OR 130; 2 OR 109

Fastening bolts: n°4 socket head screws M10 and n°2 M6.
The length depends on number and type of modular elements associated.