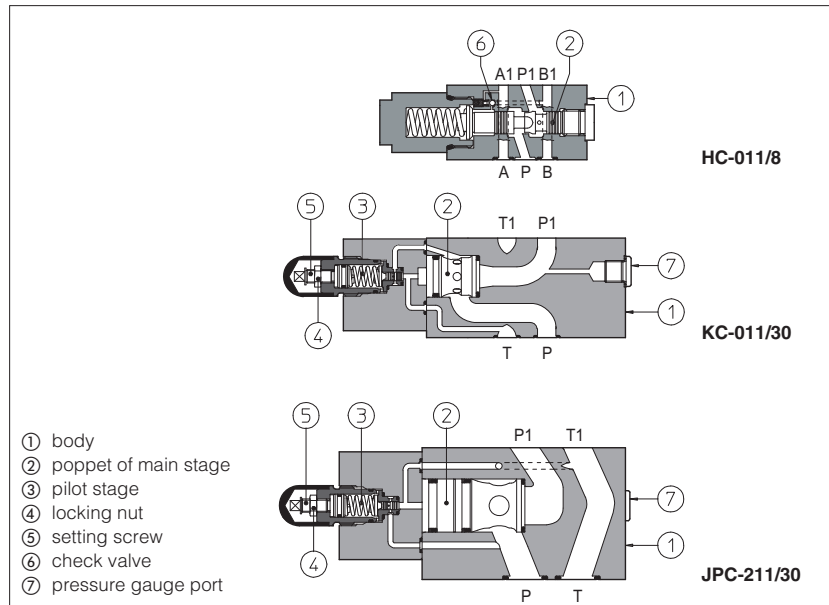


Modular pressure compensators type **HC, KC, and JPC-2**

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 = size 06, flow up to 50 l/min.
KC = size 10, flow up to 100 l/min.
JPC = size 16, flow up to 200 l/min.

Mounting surface:
ISO 4401 size 06, 10, 16
 Max pressure: **350 bar**

1 MODEL CODE

HC-0	-	11	/	30	/	M	**	/	*
Modular pressure compensator, size: HC-0 = 06 KC-0 = 10 (1) JPC-2 = 16								Seals material, see section 3: - = NBR PE = FKM BT = HNBR	
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			

(1) To be used only with direct valve type DKZOR

2 HYDRAULIC CHARACTERISTICS

Hydraulic configuration

HC-011/8, HC-011/30

KC-011/30

JPC-211/30

① Pressure gauge port (not for HC-011/8)
 ② Settable (not for HC-011/8)
 ③ Two way compensator
 ④ Piloting selection
 ⑤ Adjustment of Δp on pilot device
 ⑥ Pilot port Pp

Valve model	HC-011/8	HC-011/30	KC-011/30	JPC-211/30
Max flow [l/min]		50		
Max inlet pressure [bar]			350	200
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, 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)		
Compliance	RoHS Directive 2011/65/EU as last update by 2015/863/EU REACH Regulation (EC) n°1907/2006		
Ambient temperature	Standard = -30°C ÷ +80°C / PE option = -20°C ÷ +70°C / BT option = -40°C ÷ +70°C		
Seals, recommended fluid temperature	NBR seals (standard) = -20°C ÷ +60°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 mm ² /s - max allowed range 2.8 ÷ 500 mm ² /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	HF DU, HF DR	ISO 12922
Flame resistant with water	NBR, HNBR	HFC	

4 INSTALLATION DIMENSIONS [mm]

HC-011/8

Mass: 1,9 Kg

P1 (Pressure gauge port)

HC-011/30

Mass: 2 Kg

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

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

KC

Mass: 4,2 Kg

P1 = Pressure gauge port

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

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

JPC

Mass: 6 Kg

P1 = Pressure gauge port

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.