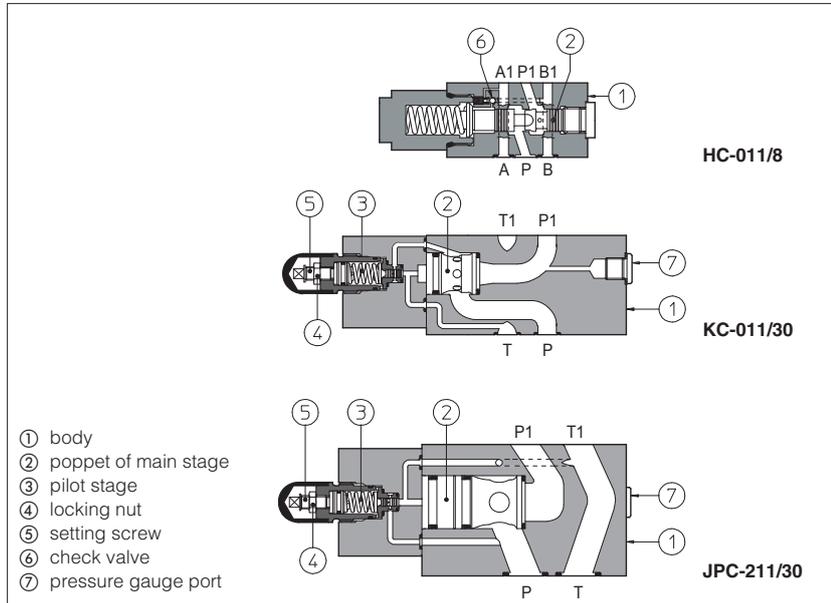


# Modular pressure compensators type HC, KC, and JPC-2

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 ( $\Delta p$ ) 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  $\Delta p$  is available only for size 06. Adjustment of desired  $\Delta p$  is operated by loosening the locking nut (4) and turning the setting screw (5) of pilot device. Clockwise rotation increases  $\Delta p$ .

**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.

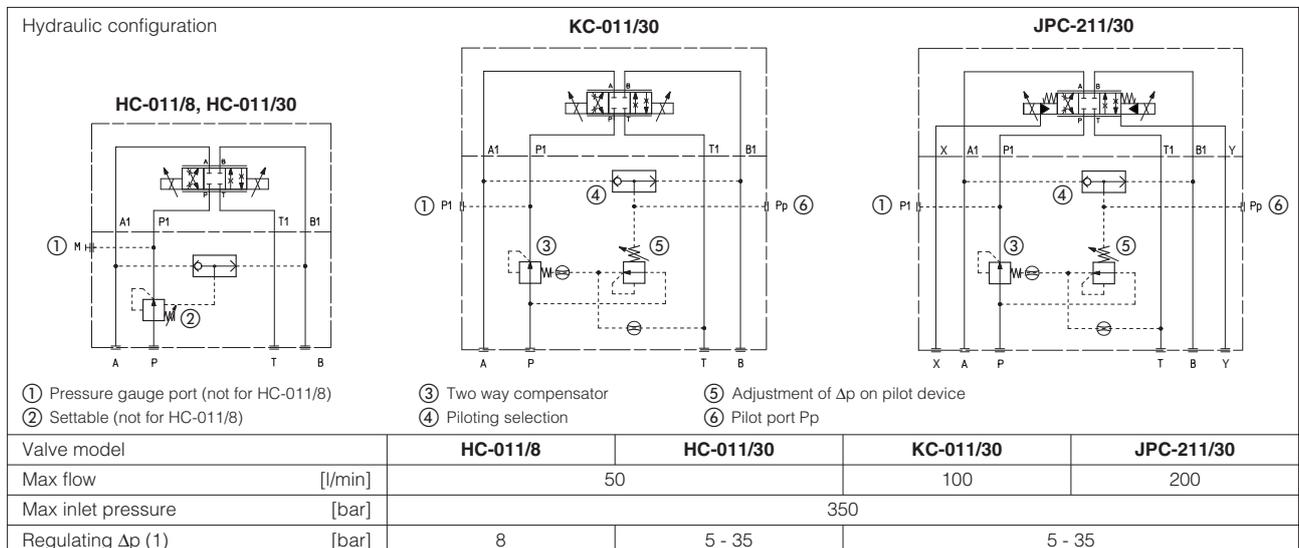
Mounting surface:  
**ISO 4401 size 06, 10, 16**  
 Max pressure: **350 bar**

- ① body
- ② poppet of main stage
- ③ pilot stage
- ④ locking nut
- ⑤ setting screw
- ⑥ check valve
- ⑦ pressure gauge port

## 1 MODEL CODE

<b>HC-0</b>	-	<b>11</b>	/	<b>30</b>	/	<b>M</b>	/	<b>**</b>	/	<b>*</b>
Modular pressure compensator, size: <b>HC-0</b> = 06 <b>KC-0</b> = 10 <b>JPC-2</b> = 16										Seals material, see section 3: - = NBR <b>PE</b> = FKM <b>BT</b> = HNBR
Configuration, see section 2 <b>11</b> = two way execution with constant $\Delta p$ between P port and user port										Series number
Fixed $\Delta p$ (only for size 06): <b>8</b> = 8 bar		Adjustable $\Delta p$ (for all sizes): <b>30</b> = 5 - 35 bar								Option (only for HC-011/30) <b>M</b> = fit for manometer port P1

## 2 HYDRAULIC CHARACTERISTICS



(1) The  $\Delta p$  for single flow path is fixed at 8 bar or is adjustable between 5 and 35 bar; it corresponds to values of total  $\Delta p$  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  $\Delta p$  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 2015/65/EU REACH Regulation (EC) n°1907/2006		
Ambient temperature	<b>Standard</b> = -30°C ÷ +80°C / <b>PE option</b> = -20°C ÷ +70°C / <b>BT option</b> = -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 <sup>2</sup> /s - max allowed range 2.8 ÷ 500 mm <sup>2</sup> /s		
Max fluid contamination level	ISO4406 class 20/18/15 NAS1638 class 9, see also filter section at <a href="http://www.atos.com">www.atos.com</a> or KTF catalog		
<b>Hydraulic fluid</b>	<b>Suitable seals type</b>	<b>Classification</b>	<b>Ref. Standard</b>
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.