

ADH.5	
STANDARD SPOOLS FOR ADH.5	CH. I PAGE 50
TECH. SPECIFICATIONS ADH.5	CH. I PAGE 51
SUBPLATES BSH.5	CH. I PAGE 52
CMP.30 BFP CARTE	RIDGE CATALOGUE
CETOP 3/NG06	CH. I PAGE 8
STANDARD SPOOLS FOR AD.3.E	CH. I PAGE 10
AD.3.E	CH. I PAGE 11
"D15" DC coils	CH. I PAGE 19
"B14" AC SOLENOIDS	CH. I PAGE 19
STANDARD CONNECTORS	CH. I PAGE 20

## ORDERING CODE

ADH

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Piloted valve (Pilot valve and any mounting valves should be ordered separately)

CETOP 5/NG10

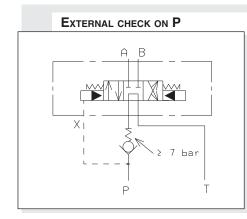
Mounting type (Table next page)

Spool type (Table next page)

Piloting and draining I = X internal / Y internal IE = X internal / Y external EI = X external / Y internal E = X external / Y external (see diagram at side)

00 = No variant LC = Main spool stroke limiter

Serial No.



## ADH.5... 4/3 AND 4/2 PILOTED VALVES CETOP 5/NG10

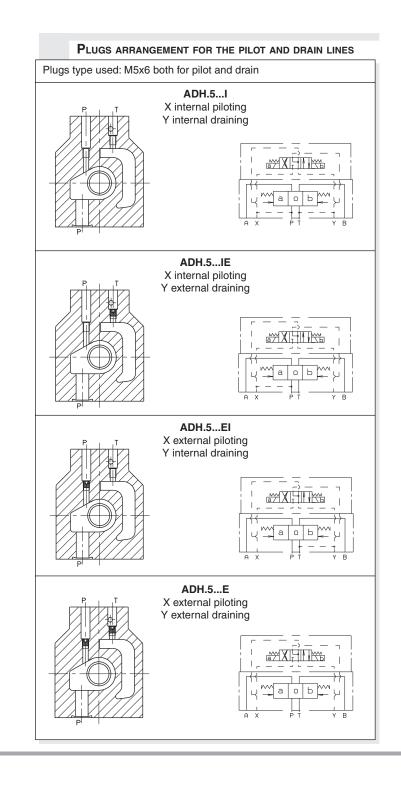
Type ADH.5 distributors are intended for interrupting, inserting and diverting a hydraulic system flow. Normally these distributors are composed of a main stage, crossed by circuit main flow, and of a pilot stage available in several versions.

Various types of controls are available, used either individually or in combination for, among other functions, stroke limitation and main spool movement speed control, in order to optimize the hydraulic system operation where this type of valve is employed.

In those case where normally to drain spools are used, it is necessary to remember that the minimum changeover pressure due to the opposing springs is equal to approximately 7 bar (see the operating features table on page I•46) and consequently necessary to insert a check valve in the P way (as shown above).

• Mounting surface in accordance with UNI ISO 4401 - 05 - 05 - 0 - 94 standard (ex CETOP R 35 H 4.2-4-05).

- Pilot operated spool, solenoid controller.
- Stroke control of main spool.
- Presetting for pressure reducing valve mounting.
- Presetting for single-acting throttle valve mounting.



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# PRESSURE DROPS

The diagram an the side shows the pressure drops in relation to spools adopted for normal usage (see table).

Tests carried out at a constant temperature of 40°C.

The fluid used was a mineral based oil with a viscosity of 46 mm²/s at 40°C.

Spool	Connections				
type	P→A	Р→В	A→T	B→T	P→T
01	3	3	5	5	
02	3		6	6	3
03	3	3	6	6	
04	3 2 3 3	3 3 2 3 3	5 5	5	1
05	3	3	5	5	
06-66	3	3	6	6	
07		1	6 5		
10	3	3	5	5	
11	4		5 5		
22		4	5		
14-28	3	3	7	7	2
15	3	3 3 3	4	5 5	
16	3 3	3	4	5	
17	3	3			
	Curve No.				

SP	OOLS AND MOUNTING TYPE		(* Spools with price increasing)		
	C mounting	A mounting	B mounting	P mounting	
Pilot Piloted	AD.3.E.03.C ADH.5.C	AD.3.E.03.E ADH.5.A	AD.3.E.03.F ADH.5.B	AD3E16E/AD3E16F ADH.5.P	
Scheme					
type			A X PT Y B		
01					
02					
03				XHI	
04*					
05					
66					
06					
07*				XHE	
10*					
11*					
22*					
14*			EIXIX		
28*					
15					
16					
17					
	1				



PILOT SOLENOID CONTROL VALVE SPECIFICA	TIONS FOR DIFFE
Max. operating pressure ports P/A/B	320 bar
Max. operating pressure port T (int. drainage)	160 bar
Max. pressure on T (ext. drainage)	250 bar
Max. piloting pressure	250 bar
Min. piloting pressure	7 bar
Max. flow	100 l/min
Piloting oil volume engagement 3 position valves	0,8 cm <sup>3</sup>
Piloting oil volume engagement 2 position valves	1,6 cm <sup>3</sup>
Hydraulic fluid	mineral oil DIN 51524
Fluid viscosity	10 ÷ 500 mm²/s

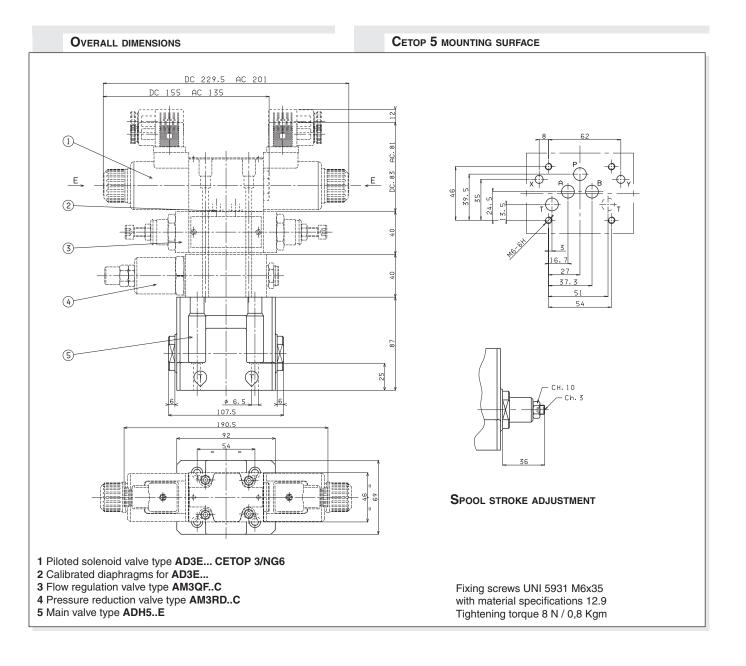
Fluid temperature -20°C ÷ 75°C Max. contamination level class 10 in accordance with NAS 1638 with filter  $\text{B}_{_{25}}{\geq}75$  2,7 Kg Weight ADH5 without pilot valve Weight ADH5 with pilot valve with 1 AC solenoid 4 Kg 4,2 Kg Weight ADH5 with pilot valve with 1 DC solenoid Weight ADH5 with pilot valve with 2 AC solenoids 4,3 Kg 4,7 Kg Weight ADH5 with pilot valve with 2 DC solenoids

FOR DIFFERENT CONTROLS, PLEASE CONTACT OUR TECHNICAL ARON SERVICE

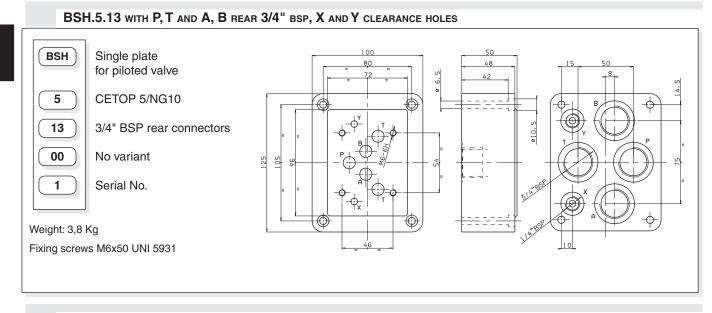
SWITCHING TIMES PILOTED VALVE

Controlling Times Fledteb VALVE			
OPERATING PRESSURE (bar)	CURRENT	ENERGIZING centre-extern (ms)	DE-ENERGIZING extern-centre (ms)
50 100 200	ALTERNATING	30 25 20	50
50 100 200	DIRECT	40 35 30	60

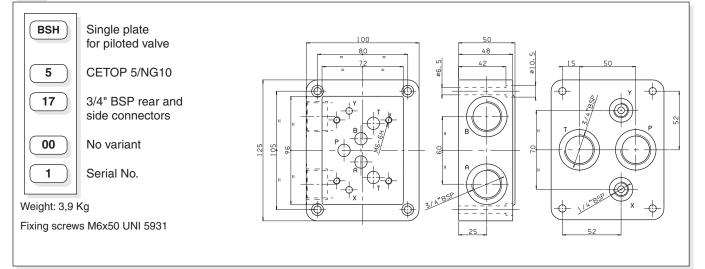
3 position valve. The values are indicative and depend on the hydraulic circuit, the fluid used and the variations in pressure, flow rate and temperature.



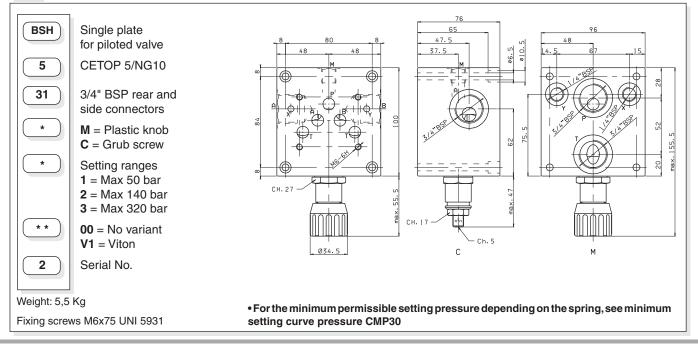
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### BSH.5.17 WITH P AND T REAR AND A, B SIDE 3/4" BSP, X AND Y CLEARANCE HOLES



BSH.5.31 with P and T rear, A and B side 3/4" BSP, X and Y CLEARANCE HOLES WITH MAXIMUM PRESSURE VALVE



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