

ADH.5		
STANDARD SPOOLS FOR ADH.5	Ch. I PAGE 49	
Tech. specifications ADH.5	Ch. I PAGE 50	
SUBPLATES BSH.5	Ch. I PAGE 51	
CMP.30 BFP CARTE	BFP CARTRIDGE 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 18	
"B14" AC SOLENOIDS	Ch. I PAGE 18	
STANDARD CONNECTORS	Ch. I PAGE 19	

## **O**RDERING CODE

ADH

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)

\*\*

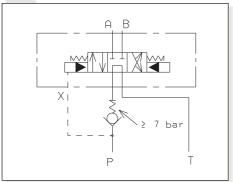
00 = No variant

LC = Main spool stroke limiter

1

Serial No.

#### EXTERNAL CHECK ON P



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

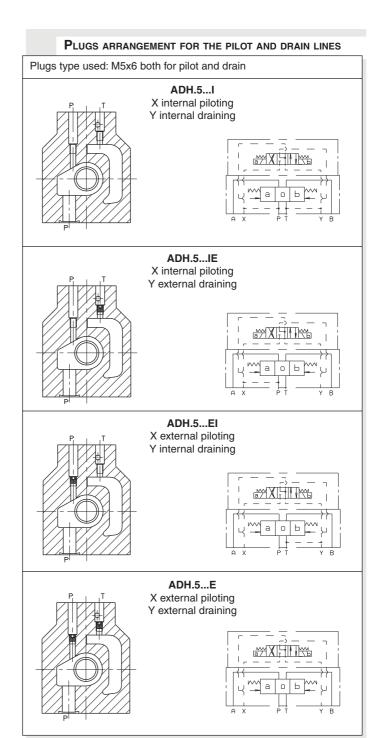


Type ADH.5 distributors are intended for interrupting, inserting and diverting a hydraulic system flow. Normally these distributors are composed of a main stage, crossed by circuit main flow, and of a pilot stage available in several versions.

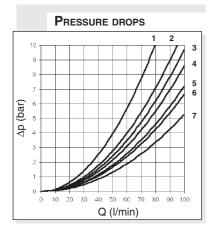
Various types of controls are available, used either individually or in combination for, among other functions, stroke limitation and main spool movement speed control, in order to optimize the hydraulic system operation where this type of valve is employed.

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•45) 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.







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  $\rm mm^2/s$  at  $\,40^{\circ} C.$ 

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

Sp	POOLS AND MOUNTING TYPE (* Spools with price increasing			
Dillet	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				
Spool type	A X PT Y B	A X PT Y B	A X PT Y B	A X PT Y B
01				
02	XHHHM	XHH		
03				
04*				
05				
66				Xi
06				
07*				XHB
10*			X X 1 X 1 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1	
11*				Er.in
22*				
14*			EIXIX	
28*				
15		XHI	XHII	
16			XIIII	
17				



## PILOT SOLENOID CONTROL VALVE SPECIFICATIONS

FOR DIFFERENT CONTROLS, PLEASE CONTACT OUR TECHNICAL ARON SERVICE

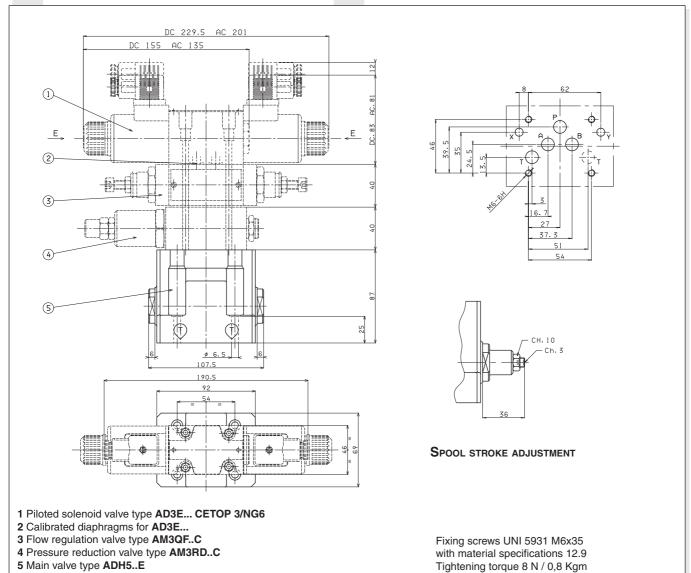
Max. operating pressure ports P/A/B Max. operating pressure port T (int. drainage) Max. pressure on T (ext. drainage) Max. piloting pressure Min. piloting pressure Max. flow Piloting oil volume engagement 3 position valves Piloting oil volume engagement 2 position valves Hydraulic fluid Fluid viscosity Fluid temperature Max. contamination level  Weight ADH5 with pilot valve with 1 AC solenoid	mineral oil DIN 51524 $10 \div 500 \text{ mm}^2\text{/s} \\ -20^{\circ}\text{C} \div 75^{\circ}\text{C} \\ \text{class 10 in accordance with NAS 1638 with filter $\beta_{25}{\geq}75$} \\ 2,7 \text{ Kg} \\ 4 \text{ Kg} \\ \end{cases}$
Weight ADH5 with pilot valve with 1 AC solenoid Weight ADH5 with pilot valve with 1 DC solenoid	4 Kg 4,2 Kg
Weight ADH5 with pilot valve with 2 AC solenoid Weight ADH5 with pilot valve with 2 DC solenoid	

Sw	SWITCHING TIMES PILOTED VALVE				
OPERATING PRESSURE (bar)	CURRENT	ENERGIZING centre-extern (ms)	DE-ENERGIZING extern-centre (ms)		
50 100 200	ALTERNATING	30 25 20	50		
50 100 DIRECT		40 35	60		

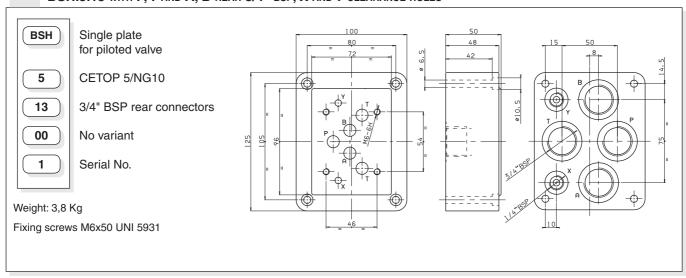
3 position valve. The values are indicative and depend on the hydraulic circuit, the fluid used and the variations in pressure, flow rate and temperature.

#### **O**VERALL DIMENSIONS

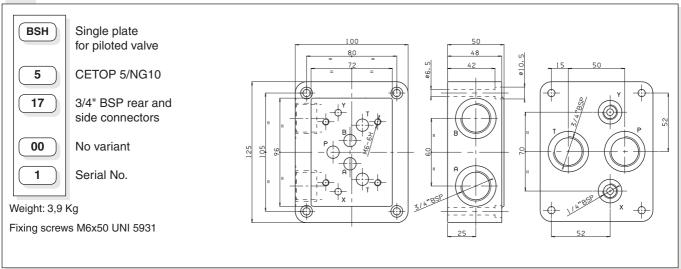
#### **CETOP 5 MOUNTING SURFACE**



# BSH.5.13 WITH P, T AND A, B REAR 3/4" BSP, X AND Y CLEARANCE HOLES



# 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

