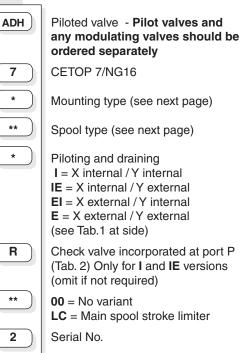
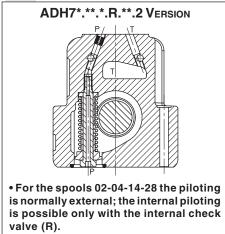


ADH.7						
STANDARD SPOOLS FOR ADH.7	CH. I PAGE 54					
TECH. SPECIFICATIONS ADH.7	CH. I PAGE 55					
SUBPLATES BSH.7	CH. I PAGE 56/57					
CETOP 3/NG06	CH. I PAGE 8					
STANDARD SPOOLS FOR AD.3.E	CH. I PAGE 10					
AD.3.E	CH. I PAGE 11					
ADC.3	CH. I PAGE 5					
"A09" DC COILS	CH. I PAGE 7					
"D15" DC COILS	CH. I PAGE 19					
"B14" AC SOLENOIDS	CH. I PAGE 19					
STANDARD CONNECTORS	CH. I PAGE 20					

ORDERING CODE



TAB. 2 - INTERNAL CHECK ON P



ADH.7... 4/3 AND 4/2 PILOTED VALVES CETOP 7/NG16

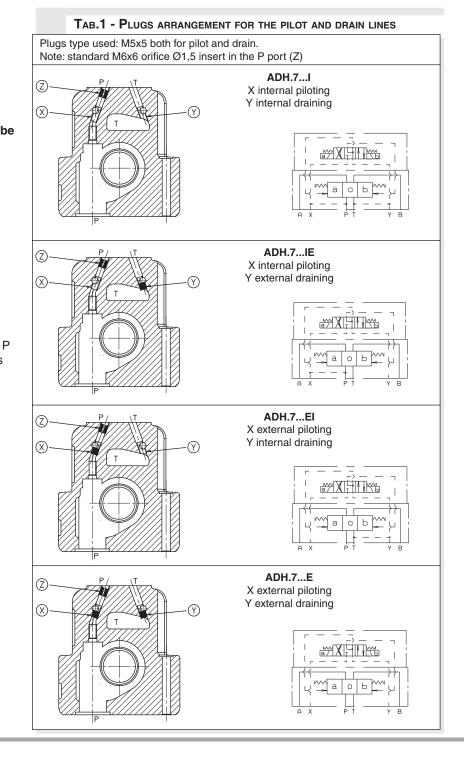
Type ADH.7 distributors are intended for interrupting, inserting and diverting a hydraulic system flow. Normally these distributors are composed of a main stage, crossed by the circuit main flow, and of a pilot stage available in several versions.

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 cases 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 5 bar (see the operating features table next pages) and it is consequently necessary to specify when ordering the check valve incorporated in the P line, if required (as shown below).

• Mounting surface in accordance with UNI ISO 4401 - 07 - 06 - 0 - 94 standard (ex CETOP R 35 H 4.2-4-07).

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

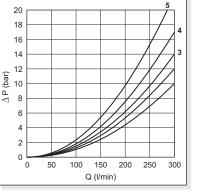


🚚 brevini

≝r brevini



PRESSURE DROPS

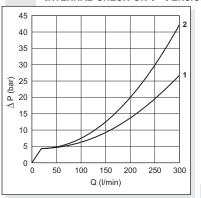


The two diagrams show the "Pressure drops" in relation to spools adopted for normal usage (see table).

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

Spool	Connections					
type		P→A	P→B	A→T	B→T	P→T
01	ENERGIZING DE-ENERGIZ.	2	1	3	3	
02	ENERGIZING DE-ENERGIZ.	1	1	3	3	2
03	ENERGIZING DE-ENERGIZ.	2	1	3	3	
04	ENERGIZING DE-ENERGIZ.	2	2	4	4	5
05	ENERGIZING DE-ENERGIZ.	1 2	1 2	2	2	
66	ENERGIZING DE-ENERGIZ.	1	1	2	3 4	
10	ENERGIZING	2	1	3	3	
14	ENERGIZING DE-ENERGIZ.	1	1	3	3	4
28	ENERGIZING DE-ENERGIZ.	1	1	3	3	4
23	ENERGIZING DE-ENERGIZ.	2	1	3	3	
		Curve No.				

PRESSURE DROPS FOR INTERNAL CHECK ON P VERSION

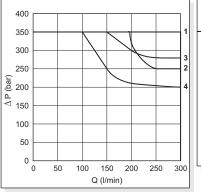


Spool	Connections				
type	P→A	Р→В	P→T		
02	1	1	1		
04	1	1	2		
	Curve No.				

The limit of use test has been carried out with external draining and orifice \emptyset 1,5 insert in the P port (Z). The fluid used was a mineral based oil with a viscosity of 46 mm²/s at 40° C.

(•) For the "E mounting" the locating spring works only with the steady system (* Spools with price increasing)

LIMIT OF USE



Spool type	No. Curve
01	1
02	2
03	1
04	3
05	1
66	1
10	1
14	4
28	4
23	1

 ${\bf S}{\mbox{pools}}$ and mounting type

	C mounting	A mounting	B mounting	E mounting (•)	P mounting
Pilot Piloted	AD.3.E.03.C ADH.7.C	AD.3.E.03.E ADH.7.A	AD.3.E.03.F ADH.7.B	AD.3.E.16.E ADH.7.E	AD3E16E/AD3E16F ADH.7.P
Scheme Spool type					
01					
02					
03					(XI:HIII)
04*					
05					
66					
10*					
14*					
28*					
23*					

PILOT SOLENOID CONTROL VALVE SPECIFICATIONS

Max. operating pressure ports P/A/B		350 bar
Max. operating pressure port T (int. drainage)		160 bar
Max. operating pressure port T (ext. drainage)		250 bar
Max. piloting pressure		210 bar
Min. piloting pressure*		12 bar
Max flow		300 l/min.
Piloting oil volume for engagement 3 position v	alves	4 cm ³
Piloting oil volume for engagement 2 position v	/alves	8 cm ³
Hydraulic fluid	mir	neral oil DIN 51524
Fluid viscosity		2.8 ÷ 380 mm ² /s
Fluid temperature		-20°C ÷ 70°C
Ambient temperature		-20°C ÷ 50°C
Max. contamination level	class 10	in accordance with
	NAS 163	38 with filter β₂₅≥75
Weight ADH7 without pilot valve		7 Kg
Weight ADH7 with pilot valve with 1 AC solenoi	d	8,2 Kg
Weight ADH7 with pilot valve with 1 DC soleno	id	8,4 Kg
Weight ADH7 with pilot valve with 2 AC solence	oids	8,5 Kg
Weight ADH7 with pilot valve with 2 DC solend	oids	9 Kg

Note: the solenoid valve type ADC.3.E... (with A09 coil) and AD3.E... (with D15 or B14 coils) could be used both as pilote valve, without any changement of technical features.

FOR DIFFERENT CONTROLS, PLEASE CONTACT OUR TECHNICAL ARON SERVICE

* For valves with internal drain (Y), tank pressure on T must be added to min. piloting pressure.

For version "R" with check valve on P, the cracking pressure of 5 bar is obtained with flow rate > 25 l/min.

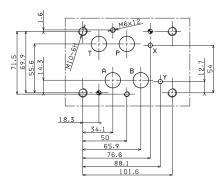
Switching time

Such values refer to a tests carried out with Aron solenoid valve type AD3E03 with P = 100 bar pressure and Q = 100I/min flow. Orifice ø1.5 mm, insert on piloting port, using a mineral oil at 40°C. with 46 mm²/s viscosity.

TEMPI DI RISPOSTA VALVOLA PILOTATA

Solenoids	ENERGIZING ±10% (ms)				DE-ENERGIZ	(ING ±10% (ms)
No. Spool	01 - 03				01 -	• 03
Scheme	2 positions 3 pos		ositions	2 positions	3 positions	
AC	50	20		20	25	30
DC	70		35		40	50
No. Spool	02	04 02 - 04		02 - 04	02 - 04	
Scheme	2 posit.	2 posit.		3 posit.	2 positions	3 positions
AC	35	60		30	25	25
DC	55	80		40	40	50





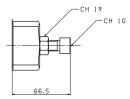
• Piloted valve fixing:

n° 4 screws T.C.E.I. M10x60 - Tightening torque 40 Nm n° 2 screws T.C.E.I. M6x55 - Tightening torque 8 Nm

· Seals:

n° 4 OR 2-118 PARKER (type 130) n° 2 OR 2-013 PARKER (type 2043)

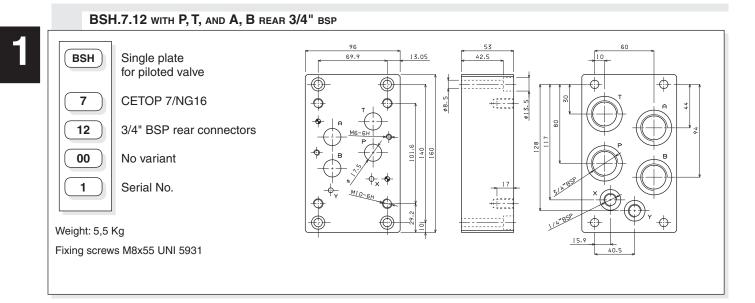
SPOOL STROKE ADJUSTMENT



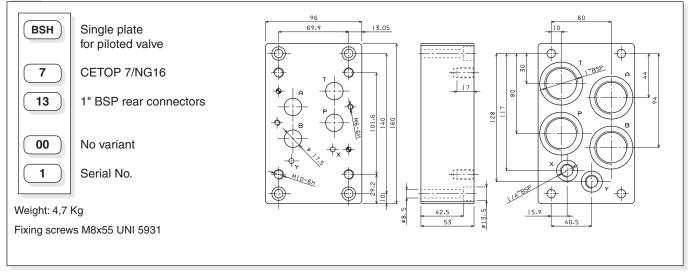
DC 229.5 AC 201 155 AC 135 DC 1 (2) 5 ¢6.5 ø11 SEø3 205 101.6 51.7 ÷ 1 Piloted solenoid valve type AD3E... or ADC.3.E... CETOP 3/NG6 2 Calibrated diaphragms AD3E... 3 Flow regulation valve type AM3QF..C 4 Pressure reduction valve type AM3RD..C

5 Main valve type ADH7..E

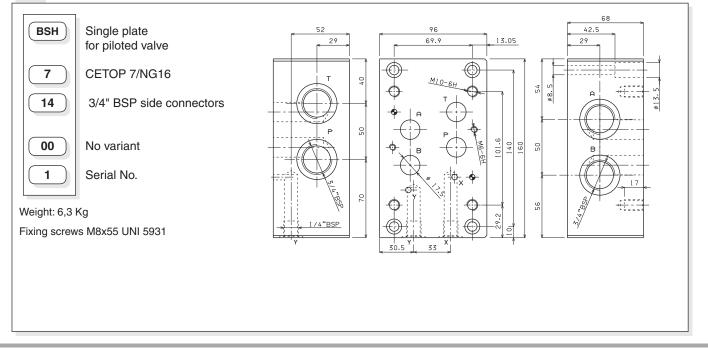


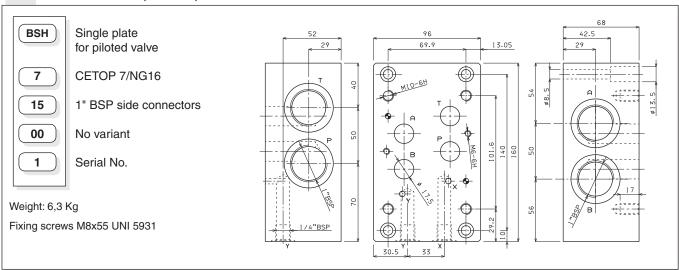


BSH.7.13 WITH P, T AND A, B REAR 1" BSP



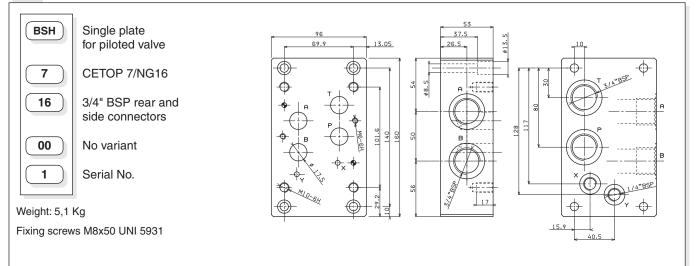
BSH.7.14 WITH P, T AND A, B SIDE 3/4" BSP





BSH.7.15 WITH P,T AND A, B SIDE 1" BSP





BSH.7.17 WITH P AND T REAR, A AND B SIDE 1" BSP, X AND Y REAR

