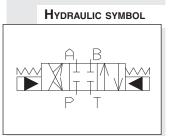


ADPH.5	
STANDARD SPOOLS FOR ADPH.5	CH. I PAGE 47
TECH. SPECIFICATIONS ADPH5	CH. I PAGE 48
CETOP 2/NG04	CH. I PAGE 2
AD.2.E	CH. I PAGE 4
"A09" DC Coils	CH. I PAGE 4
STANDARD CONNECTORS	CH. I PAGE 20

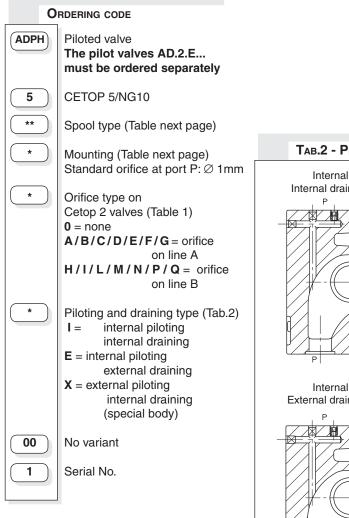
ADPH.5... PILOTED VALVES CETOP 5/NG10 WITH CETOP 2/NG4 PILOT VALVE

These ADPH 5 valves are used primarily for controlling the starting, stopping and direction of fluid flow. These kind of distributors are composed by a main stage crossed by the big flow from the pump (ADPH.5) and by a cetop 2 pilot directional solenoid valve (AD.2.E) available with different mounting type.

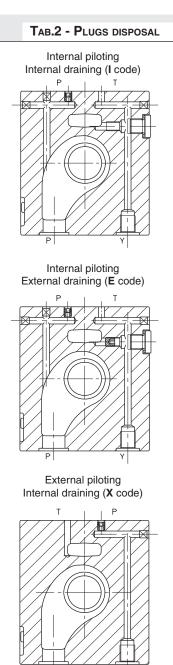
When a short response time is requested, a special version of solenoids with high dynamics is available with the code AD.2.E.**.*.*FF.2 (Please, contact our Technical Aron Service).



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TAB.1 - ORIFICE ON LINE A/B					
On line A	On line B	ø(mm)			
0	0	None			
Α	н	0,5			
В	1	0,6			
с	L	0,7			
D	м	0,8			
E	N	0,9			
F	Р	1			
G	Q	1,2			



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(* Spools with price increasing)

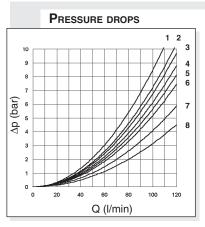
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Hy	Hydraulic symbols, spools and mounting				
		"A" MOUNTING			
Pilot Piloted					
Scheme					
Spool type		Covering	Transient position		
01		+			
02		-	XHE		
03	XH	-	EHX		
04*		-			
06	XH	+			
15		-			
16		+			

	"C" MOUNTING			
Pilot Piloted				
Scheme				
Spool type		Covering	Transient position	
01		+		
02		-		
03		-		
04*		-		
06		+		

	"B" MOUNTING			
Pilot Piloted				
Scheme				
Spool type		Covering	Transient position	
01		+		
02				
03				
04*		-		
06		+		
15		-		
16		+		



The diagram at the side shows the pressure drop curves for spools during normal usage. The used fluid is a mineral oil with a viscosity of 46 mm^2 /s at 40° C; the tests have been carried out at a fluid temperature of 40° C. For flow rates higher than those in the diagram, the losses will be those expressed by the following formula:

$\Delta p1 = \Delta p \times (Q1/Q)^2$

where Δp will be the value for the losses for a specific flow rate Q which can be obtained from the diagram, $\Delta p1$ will be the value of the losses for the flow rate Q1 that is used.

Spool	Connections				
type	P→A	P→B	A→T	B→T	P→T
01	4	4	7	7	
02	6	6	8	8	7
03	3	3	8	8	
04	4	4	2	2	3
06	4	4	7	2 8 5	
15	2	2	5		
16	1	1	2	2	
	Curve No.				

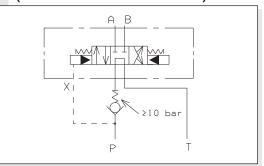
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PILOT SOLENOID	CONTROL	VALVE	SPECIFICATIONS
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Max. operating pressure: ports P/A/B 25			
Max. operating pressure: port T (dynamic)	70 bar		
Max. piloting pressure	250 bar		
Min. piloting pressure	10 bar		
Max. flow	120 l/min		
Switching times (*see note below)	Energizing: 20 ms		
	De-energizing: 50 ms		
Piloting oil volume for engagement	1 cm ³		
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 $\beta_{25} \ge 75$		
Mounting	plate		
Weight ADPH5 without pilot valve	3,4 Kg		
Weight ADPH5 with pilot valve with one solenoid 4,6			
Weight ADPH5 with pilot valve with two solenoids 4,			
	-		

(*) All the tests have been carried out with AD.2.E pilot valve with variant FF, mounting type C, spool 03, flow 100 l/min,pressure 160 bar, back pressure on the T line of 2 bar and oil temperature 40°C.

EXTERNAL BACK PRESSURE ON LINE P (FOR SPOOL IN THE CENTRE POSITION)



When the main spool connect P to T in the centre position, the minimum pressure of 10 bar is needed to move the main spool (see the "Specifications"); for this reason a check valve on the P line (see the drawing above) is necessary.

