

Распределители двухкаскадные ARON СЕТОР 5 / NG10 ADPH.5

Технические характеристики

Архангельск (8182)63-90-72	Ижевск (3412)26-03-58	Магнитогорск (3519)55-03-13	Пермь (342)205-81-47	Сургут (3462)77-98-35
Астана (7172)727-132	Иркутск (395)279-98-46	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тверь (4822)63-31-35
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Владивосток (423)249-28-31	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Севастополь (8692)22-31-93	Уфа (347)229-48-12
Волгоград (844)278-03-48	Краснодар (861)203-40-90	Омск (3812)21-46-40	Симферополь (3652)67-13-56	Хабаровск (4212)92-98-04
Вологда (8172)26-41-59	Красноярск (391)204-63-61	Орел (4862)44-53-42	Смоленск (4812)29-41-54	Челябинск (351)202-03-61
Воронеж (473)204-51-73	Курск (4712)77-13-04	Оренбург (3532)37-68-04	Сочи (862)225-72-31	Череповец (8202)49-02-64
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Иваново (4932)77-34-06	Киргизия (996)312-96-26-47	Казахстан (772)734-952-31	Таджикистан (992)427-82-92-69	

Единый адрес для всех регионов: any@nt-rt.ru || www.aron.nt-rt.ru

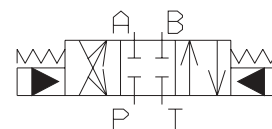


ADPH.5... PILOTED VALVES CETOP 5/NG10 WITH CETOP 2/NG4 PILOT VALVE

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).

HYDRAULIC SYMBOL



ADPH.5...

STANDARD SPOOLS FOR ADPH.5 CH. I PAGE 46

TECH. SPECIFICATIONS ADPH5 CH. I PAGE 47

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 19

ORDERING CODE

ADPH

Piloted valve
**The pilot valves AD.2.E...
must be ordered separately**

5

CETOP 5/NG10

Spool type (Table next page)

Mounting (Table next page)
Standard orifice at port P: $\varnothing$ 1mm

Orifice type on
Cetop 2 valves (Table 1)
0 = none
A/B/C/D/E/F/G = orifice
on line A
H/I/L/M/N/P/Q = orifice
on line B

Piloting and draining type (Tab.2)
I = internal piloting
internal draining
E = internal piloting
external draining
X = external piloting
internal draining
(special body)

00

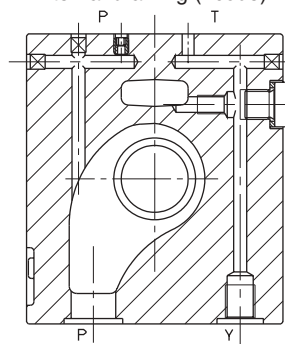
No variant

1

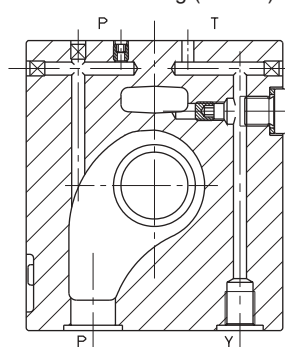
Serial No.

TAB.2 - PLUGS DISPOSAL

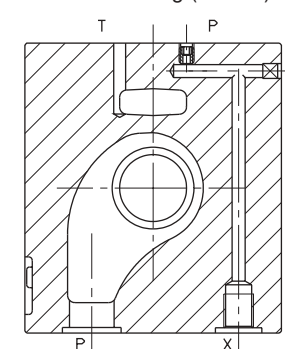
Internal piloting
Internal draining (**I** code)



Internal piloting
External draining (**E** code)



External piloting
Internal draining (**X** code)



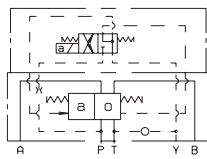
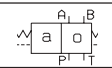
TAB.1 - ORIFICE ON LINE A/B

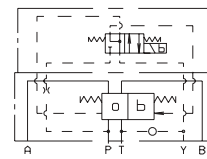
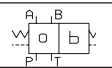
On line A	On line B	$\varnothing$ (mm)
0	0	None
A	H	0,5
B	I	0,6
C	L	0,7
D	M	0,8
E	N	0,9
F	P	1
G	Q	1,2

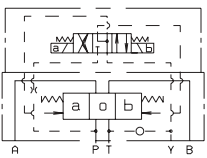
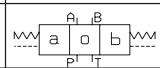
ADPH.5... PILOTED VALVES 5/NG10 WITH CETOP 2/NG4 PILOT VALVE

HYDRAULIC SYMBOLS, SPOOLS AND MOUNTING

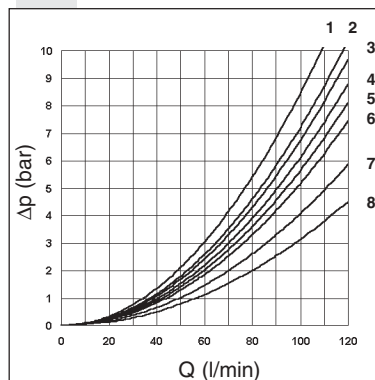
(* Spools with price increasing)

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

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

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

PRESSURE DROPS



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 mm²/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:

$$\Delta p_1 = \Delta p \times (Q_1/Q)^2$$

where Δp will be the value for the losses for a specific flow rate Q which can be obtained from the diagram, Δp_1 will be the value of the losses for the flow rate Q_1 that is used.

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

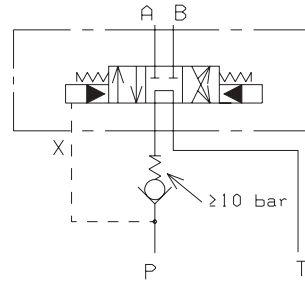
ADPH.5... PILOTED VALVES 5/NG10 WITH CETOP 2/NG4 PILOT VALVE

PILOT SOLENOID CONTROL VALVE SPECIFICATIONS

Max. operating pressure: ports P/A/B	250 bar
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 mm ² /s
Fluid temperature	-20°C ÷ 75°C
Max. contamination level	class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Mounting	plate
Weight ADPH5 without pilot valve	3,4 Kg
Weight ADPH5 with pilot valve with one solenoid	4,3 Kg
Weight ADPH5 with pilot valve with two solenoids	4,5 Kg

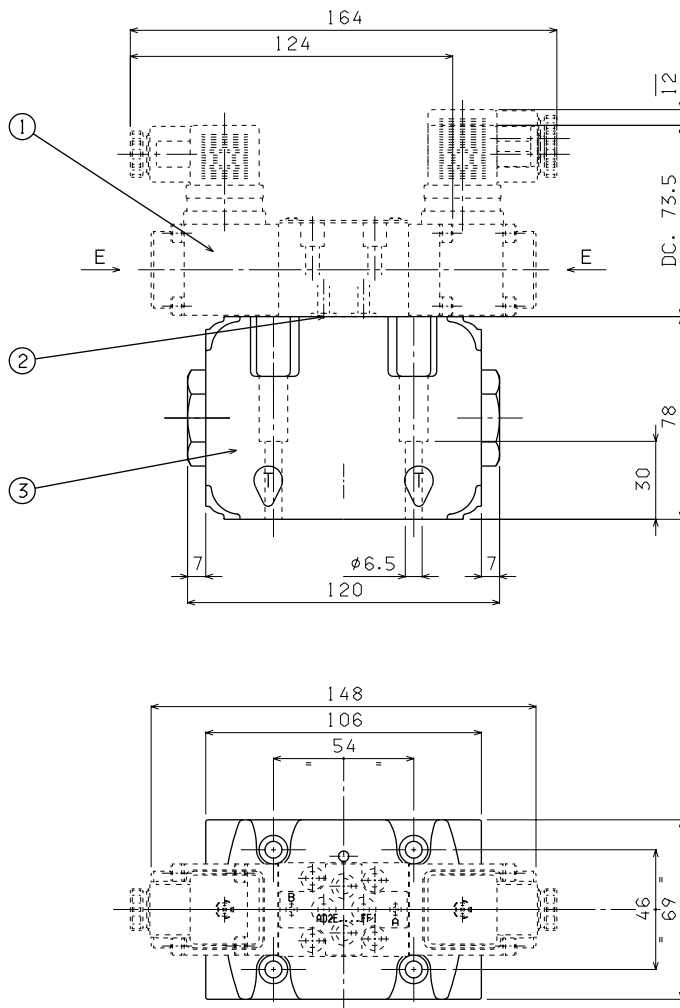
(*) All the tests have been carried out with AD.2.E pilot valve with variant FF, mounting type C, spool 03, flow 100 l/min, pressure 160 bar, back pressure on the T line of 2 bar and oil temperature 40°C.

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



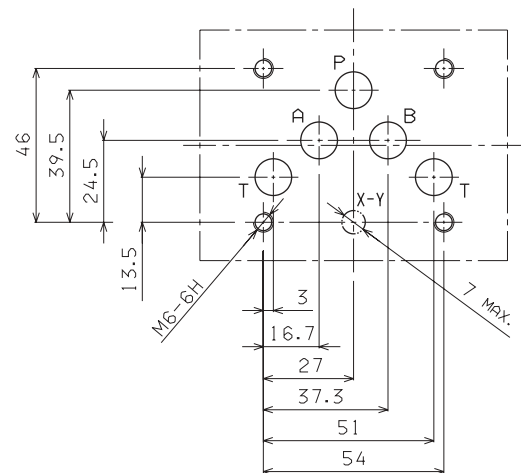
When the main spool connect P to T in the centre position, the minimum pressure of 10 bar is needed to move the main spool (see the "Specifications"); for this reason a check valve on the P line (see the drawing above) is necessary.

OVERALL DIMENSIONS AND MOUNTING SURFACE



- 1 Pilot solenoid valve
Cetop 2/NG4 type AD.2.E...FF variant
- 2 Calibrated springs
- 3 Piloted valve ADPH.5

Mounting surface



Fixing screws UNI 5931 M6x40
with material specifications 12.9
Tightening torque 8 ÷ 10 N / 0,8 ÷ 1 Kgm

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