

AD.5.O... OLEO-PNEUMATIC OPERATION TYPE VALVES CETOP 5/NG10



Max. pressure ports P/A/B	320 bar
Max. pressure port T	160 bar
Max. flow	100 l/min
Min. operating pressure	$4 + [0.027 \times (pt^*)]$ bar - see note
Max. operating pressure	200 bar
Fluid viscosity	$10 \div 500 \text{ mm}^2/\text{s}$
Fluid temperature	$-25^\circ\text{C} \div 75^\circ\text{C}$
Ambient temperature	$-25^\circ\text{C} \div 60^\circ\text{C}$
Max. contamination level	class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Weight (single pilot)	4,1 Kg
Weight (twin pilot)	5,4 Kg

- Possible mounting:
C / D / E / F / G / H / I / L / M
- Ordering code see page I*29

(pt*) = Pressure at port T

OVERALL DIMENSIONS

Fixing screws UNI 5931 M6x40 with material specifications min. 8.8
Tightening torque 8 Nm / 0.8 Kg

Support plane specifications

EAD50 - 02/2000/e

AD.5.D... DIRECT MECHANICALLY OPERATED TYPE VALVES CETOP 5/NG10



Max. pressure ports P/A/B	320 bar
Max. pressure port T	20 bar
Max. flow	100 l/min
Operating force - see note (*)	8 Kg - see note (**)
Fluid viscosity	$10 \div 500 \text{ mm}^2/\text{s}$
Fluid temperature	$-25^\circ\text{C} \div 75^\circ\text{C}$
Ambient temperature	$-25^\circ\text{C} \div 60^\circ\text{C}$
Max. contamination level	class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Weight	3,8 Kg

- Possible mounting:
E / F / G / H
- Ordering code see page I*29

• Notes:
(*) In the absence of counter-pressure at port T

(**) 10 Kg with a pressure of 20 bar at T

OVERALL DIMENSIONS

Fixing screws UNI 5931 M6x40 with material specifications min. 8.8
Tightening torque 8 Nm / 0.8 Kg

Support plane specifications

Stroke 8 mm

Extra stroke 2 mm

Working stroke 4 mm

EAD5D - 03/2000/e

ORDERING CODE

AD	Directional valve
5	CETOP 5/NG10
*	Type of operator (tab.1)
**	Spools (see tables on page I•30)
*	Mounting type (tab.2)
*	Voltage (tab.3)
**	Variants (tab.4)
2	Serial No.

**TAB.1
TYPE OF OPERATOR**

E	Electrical
D	Direct mechanical
O	Oleo-pneumatic
L	Lever

**TAB.2
MOUNTING**

STANDARD	
C	
D	
E	
F	
SPECIALS (WITH PRICE INCREASING)	
G	
H	
I	
L	
M	

TAB.3 - "E" TYPE OPERATION

AC VOLTAGE **	
A	24V/50Hz
B	48V/50Hz*
J	115V/50Hz - 120V/60Hz
Y	230V/50Hz - 240V/60Hz
E	240V/50Hz*
F	24V/60Hz*
DC VOLTAGE **	
L	12V
M	24V
N	48V*
P	110V*
Z	102V*
X	205V*
K	Without AC coils
W	Without DC coils
Z	other controls

115Vac/50Hz 120Vac/60Hz with rectifier
230Vac/50Hz 240Vac/60Hz with rectifier

Voltage codes are not stamped on the plate, their are readable on the coils.

* Special voltage
** Technical data see page I • 35

• Mounting type **D** is only for valves with detent

• In case of mounting **D** with detent a maximum supply time of 2 sec is needed (only for AC coils).

• The springs for the version with detent (mounting **D**) are different from those for standard versions.

TAB.4 - VARIANTS

VARIANT	CODE	◆	PAGE
No variant (without connectors)	S1(*)		
Viton	SV(*)		
Emergency button	ES(*)		I•35
Preset for microswitch - (E/F/G/H only) see below note ◊	MS(*)	◆	I•31- I•34
Rotary emergency button	P2(*)		I•35
Marine version (AD.5.O..)	H1	◆	
Preset for microswitch + Viton	MV	◆	
Spool movement speed control (VDC only) with ø 0.5 mm diameter orifice	5S(*)	◆	I•32
Spool movement speed control (VDC only) with ø 0.6 mm diameter orifice	6S(*)	◆	I•32
Spool movement speed control (VDC only) with ø 0.7 mm diameter orifice	7S(*)	◆	I•32
Spool movement speed control (VDC only) with ø 0.8 mm diameter orifice	8S(*)	◆	I•32
External draining solenoid (electrically operated only)	S5(*)	◆	I•32
Microswitch+ Detent (for lever operation)	MD	◆	
Detent for lever control	D1	◆	

◊ = Maximum counter-pressure on T port: 4 bar ◆ = Variant codes stamped on the plate

(*) Coils with Hirschmann connection supplied without connectors. The connectors can be ordered separately, ch. I page 19.

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TWO SOLENOIDS, SPRING CENTRED "C" MOUNTING			
Spool type		Covering	Transient position
01		+	
02		-	
03		+	
04*		-	
05		+	
66		+	
06		+	
07*		+	
08*		+	
10*		+	
22*		+	
11*		+	
12*		+	
13*		+	
14*		-	
28*		-	

ONE SOLENOID, SIDE A "E" MOUNTING			
Spool type		Covering	Transient position
01		+	
02		-	
03		+	
04*		-	
05		+	
66		+	
06		+	
08*		+	
10*		+	
12*		+	
15		-	
16		+	
17		+	
14*		-	
28*		-	

STANDARD SPOOLS

(*) Spool with price increasing

• With spools 15 / 16 / 17 only the mounting E / F are possible

• 19 / 20 / 21 spool not planned for AD.5.E...J*

• For lever operated the spools used are different.

Available spools for this kind of valve are: 01 / 02 / 03 / 04 / 05 / 06 / 66 / 07 / 22 / 13 / 15 / 16 / 17

ONE SOLENOID, SIDE B "F" MOUNTING			
Spool type		Covering	Transient position
01		+	
02		-	
03		+	
04*		-	
05		+	
66		+	
06		+	
08*		+	
10*		+	
22*		+	
12*		+	
13*		+	
07*		+	
15		-	
16		+	
17		+	
14*		-	
28*		-	

TWO SOLENOIDS "D" MOUNTING			
Spool type		Covering	Transient position
19*		-	
20*		+	
21*		+	