

# 1

### ORDERING CODE

<b>AD</b>	Directional valve
<b>5</b>	CETOP 5/NG10
*	Type of operator (tab.1)
**	Spools (see tables on page I•31)
*	Mounting type (tab.2)
*	Voltage / Specification (tab.3)
**	Variants (tab.4)
<b>2</b>	Serial No.

### TAB.1 - TYPE OF OPERATOR

<b>E</b>	Electrical
<b>D</b>	Direct mechanical
<b>O</b>	Oleo-pneumatic
<b>L</b>	Lever

### TAB.2 MOUNTING

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

### TAB.3 - VOLTAGE / SPECIFICATION

Operator	Voltage Specs.	Description	Note	
<b>E</b>	<b>A</b>	24V/50Hz	AC Voltage ** (Technical data see page I•36)	
	<b>B</b>	48V/50Hz*		
	<b>J</b>	115V/50Hz - 120V/60Hz		
	<b>Y</b>	230V/50Hz - 240V/60Hz		
	<b>E</b>	240V/50Hz*		
	<b>F</b>	24V/60Hz*		
	<b>K</b>	Without AC coils		
	<b>L</b>	12V		DC Voltage ** (Technical data see page I•36)
	<b>M</b>	24V		
	<b>N</b>	48V*		
	<b>P</b>	110V*		
	<b>Z</b>	102V* 115Vac/50Hz 120Vac/60Hz with rectifier		
<b>X</b>	205V* 230Vac/50Hz 240Vac/60Hz with rectifier			
<b>W</b>	Without DC coils			
<b>D</b>	<b>Z</b>	standard	—	
<b>O</b>	<b>Z</b>	standard	—	
<b>L</b>	<b>Z</b>	valve with lever	—	
	<b>X</b>	valve without lever	—	

\* Special voltage

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

• **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•36
Preset for microswitch - (E/F/G/H only) see below note ◊	MS(*)	I•32- I•35
Rotary emergency button	P2(*)	I•36
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•33
Spool movement speed control (VDC only) with ø 0.6 mm diameter orifice	6S(*)	I•33
Spool movement speed control (VDC only) with ø 0.7 mm diameter orifice	7S(*)	I•33
Spool movement speed control (VDC only) with ø 0.8 mm diameter orifice	8S(*)	I•33
External draining solenoid (electrically operated only)	S5(*)	I•33
Microswitch+ Detent (for lever operation)	MD	
Detent for lever control	D1	

◊ = Maximum counter-pressure on T port: 4 bar - Microswitch type AM1107 code V79000001 can be ordered separately.

◆ = Variant codes stamped on the plate

(\*) Coils with Hirschmann connection supplied without connectors. The connectors can be ordered separately, ch. I page 20.

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 see AD5L..

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*		+	

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



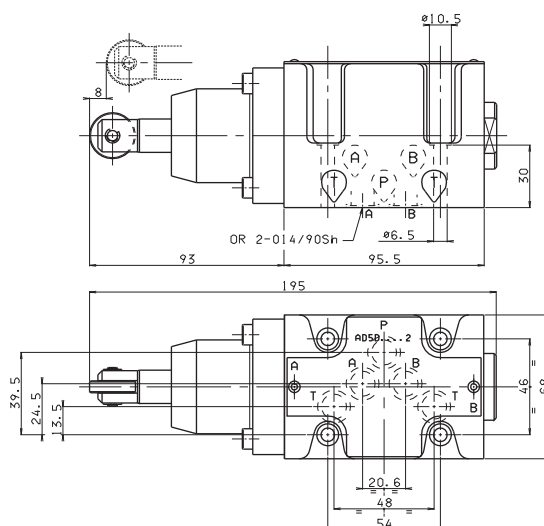
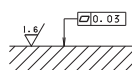
Max. pressure ports P/A/B	320 bar
Max. pressure port T	20 bar
Max. flow	100 l/min
Operating force - see note (*)	8 Kg - see note (**)
Fluid viscosity	10 ÷ 500 mm <sup>2</sup> /s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max. contamination level	class 10 in accordance with NAS 1638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

- Possible mounting:  
**E / F / G / H**
- Ordering code see page I•30
- 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