SERIES E500 HP
SOLENOID PUMP HIGH PRESSURE
Pompe a vibrazione ad alta pressione

HIGHLIGHTS
- Self priming at 0 bar
- Integrated diode (exept. 24V)
- Thermal cutout pocket
- Full detailed electrical and hydraulic inspection
- Dry working allowed only for the self priming phase
- FM patented system
- Available with Glow Wire test - only IEC market (GWIT test 750°C IEC 60335-1)



PRODUCT DESCRIPTION
Solenoid pump series E500 High Pressure comprises the versions E503, E504 and E505.
These type of pumps provide a compact solution for high pressure and low flow applications.
The hydraulic connections are: hose barb inlet and G 1/8" female outlet.

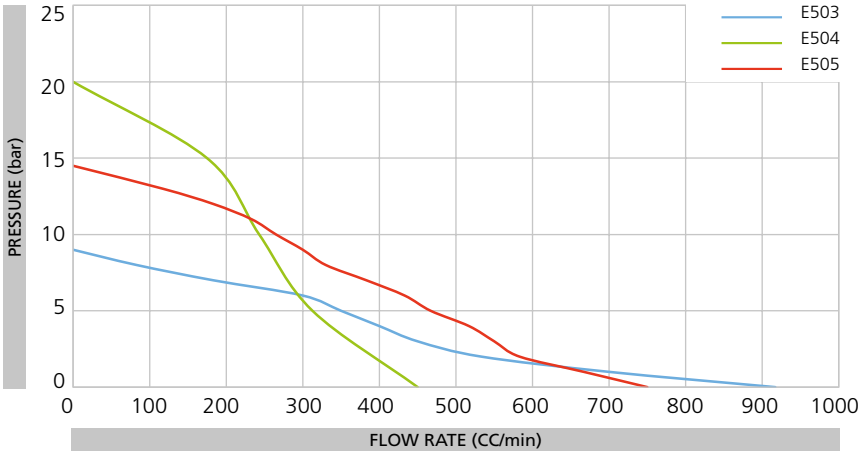
DESCRIZIONE PRODOTTO
Le pompe a vibrazione della serie E500 alta pressione comprendono i modelli E503, E504 ed E505.
Questo tipo di pompe offrono una soluzione compatta per applicazioni con alte pressioni e basse portate.
Le connessioni idrauliche prevedono l'ingresso con portagomma e l'uscita con filetto femmina G1/8".

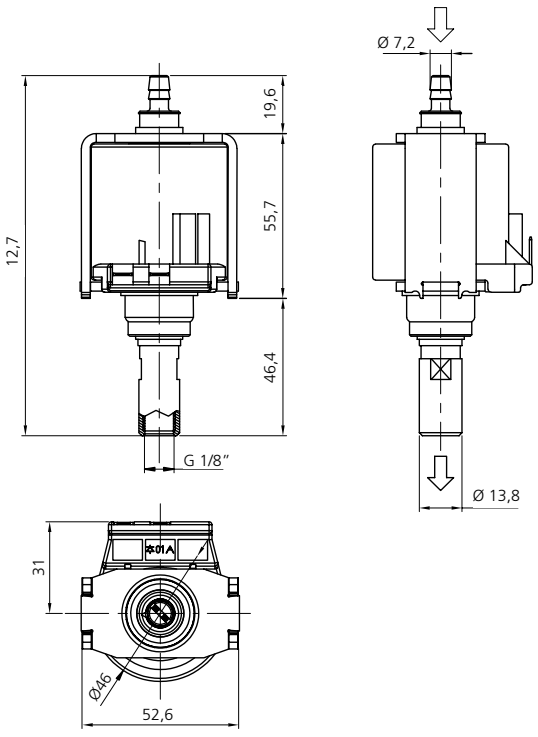
Steam Coffee

GENERAL FEATURES / *CARATTERISTICHE GENERALI*		
Tube guide material / *Materiale del tubo guida*	PA66/PPS	
Seal material / *Materiale guarnizioni*	EPDM (other material available upon request)	
Fluid temperature / *Temp. fluido*	60°C (E503)	35°C (E504, E505)
Ambient temperature / *Temp. ambiente*	70°C (E503)	50°C (E504, E505)
Working fluids / *Fluidi di lavoro*	Water	
Electrical connect. / *Connes. elettrica*	6,3 x 0,8 fast-on terminal	
Insulation class / *Classe di isolamento*	F/A	
Hydraulic connections / *Connessione idraulica*	INLET: Hose barb	OUTLET: G 1/8"
Mounting position / *Posizone di fissaggio*	any	

SPECIFICATIONS / *CARATTERISTICHE*

MODEL	Voltages	ON/OFF	Class	Coil Power Watt	Approvals
E503	230V ~ 50 Hz	ED 100%	F	32W	VDE
	120V ~ 60 Hz	1/2	A	32W	UL
E504	230V ~ 50 Hz	2/1	F	47W	VDE
	120V ~ 60 Hz	1/2	A	47W	UL
E505	230V ~ 50 Hz	2/1	F	47W	VDE
	120V ~ 60 Hz	1/2	A	47W	UL
	12V ~ 50 Hz	2/1	F	47W	-
	24V/50Hz	2/1	F	47W	-





CEME
APPLIANCES DIVISION

TECHNICAL SPECIFICATION

SOLENOID PUMP

SERIE E503 UL

Type B32-A

PREPARED

RPT:

Athos Degani

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CEME S.p.A.
FLUID CONTROL COMPONENTS

TECHNICAL SPECIFICATION

- ***STRUCTURAL CHARACTERISTICS***

☐ Hydraulic body: PA 66 30% glass fibre polyamide, available brass delivery pipe version.
☐ Inlet: 7,2 mm hose-bib.
☐ Outlet: 1/8'' G female.
☐ Sealing: EPDM rubber.
☐ Overall dimensions: according with the drawing of the model.
☐ Electrical connections: 6,3 x 0,8 fast-on terminals.
☐ Electrical insulation class: II, according with EN 60 335-1.
☐ Approvals: UL (120 V 60 Hz).

- ***WORKING CHARACTERISTICS***

- ☐ Working fluid: potable grade water at temperature max. T_f = 60 °C (according with the approvals).
- ☐ Suction power: 100 mbar minimum (dry pump), self-priming without pressure on the delivery (optional: de-aerating valve for every application foreseeing pressure p > 0 on the delivery during the self priming of the pump).
- ☐ Dry working allowed only for the self-priming time (3 ÷ 5).
- ☐ Maximum pressure: see the attached flow curve of the model.
- ☐ Nominal power supply: 120V 60 Hz, serial diode to the winding included in the coil .
- ☐ Power absorption: 32 W.
- ☐ Heating class: A (105 °C) according with EN 60 335-1 and approvals.
- ☐ ID: 1/1,5 min in A class 120 V 60 Hz power supplied according with EN 60 335-1 and approvals.
- ☐ Maximum environmental temperature: T_a = 70 °C in A class (according with the approvals).

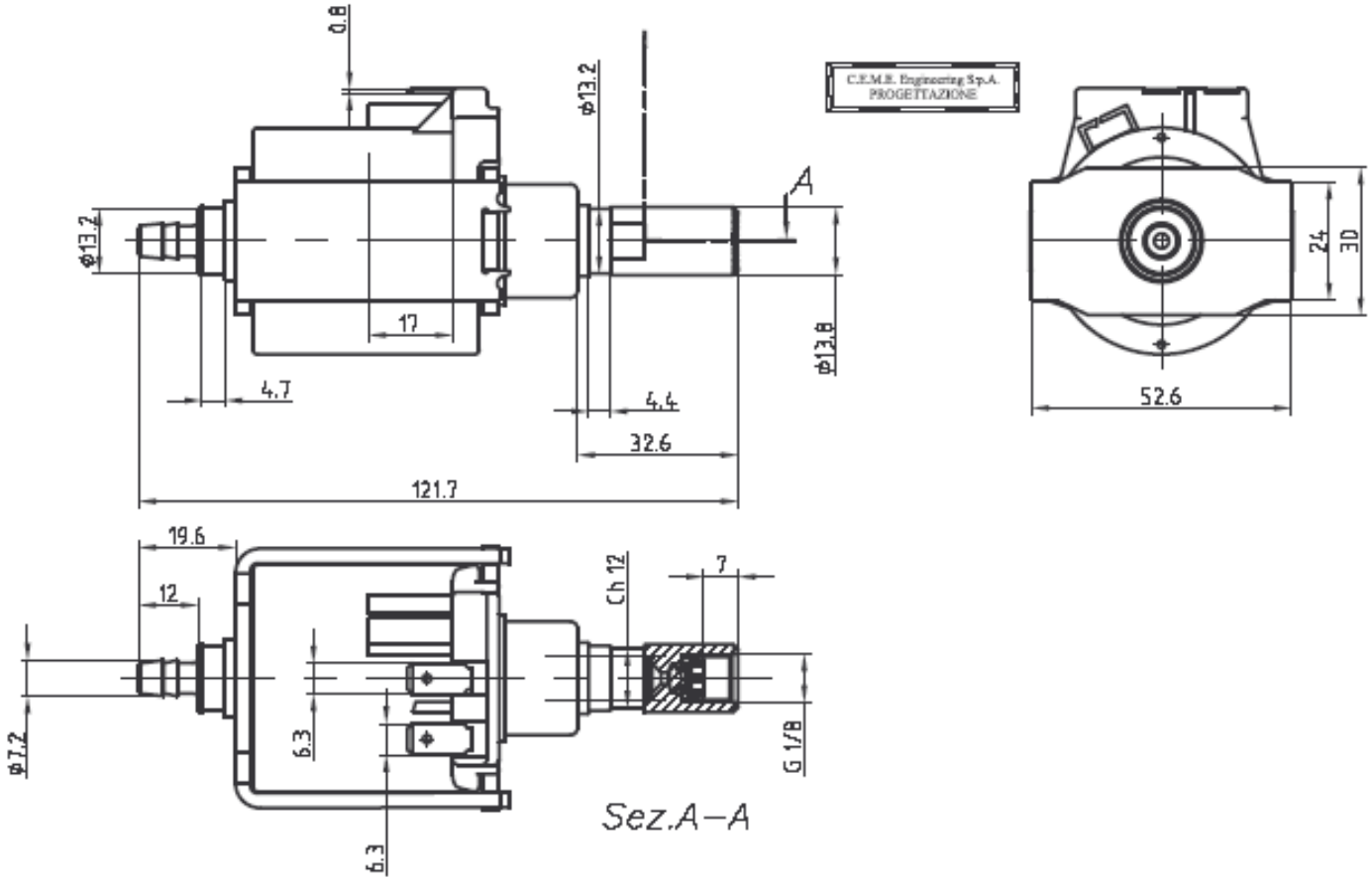
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CEME S.p.A.
FLUID CONTROL COMPONENTS

OVERALL DIMENSION DRAWING
and
FLOW CURVE

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FLUID CONTROL COMPONENTS

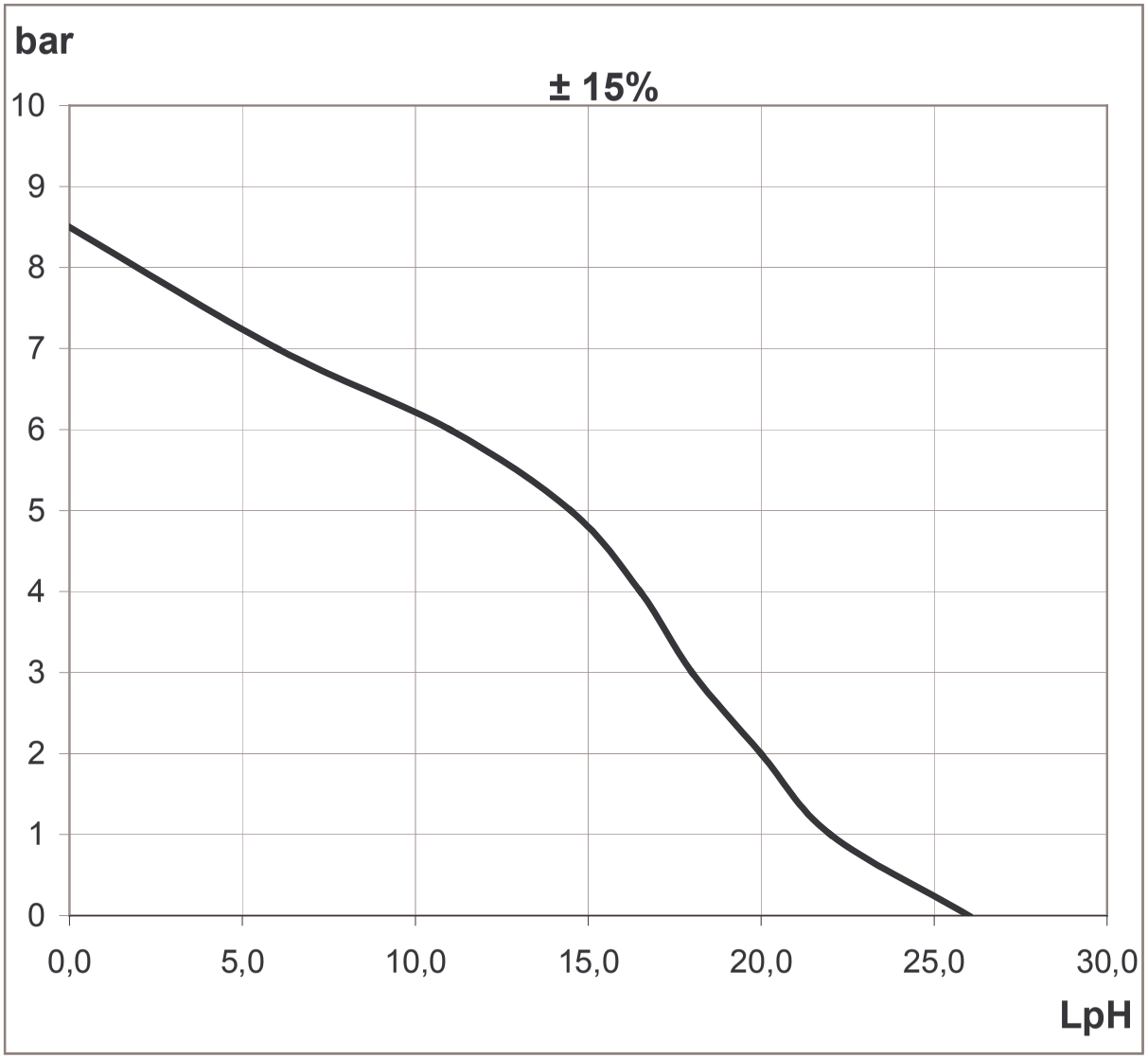


CEME APPLIANCES DIVISION	Scheda prototipo Elettropompe - Pump prototype file	E503

CURVA CARATTERISTICA - FLOW CURVE

Tensione - Power Supply	(V /Hz)	120/60
Corrente - Current	(mA)	450
Potenza - Power	(Watt)	32
Pressione di utilizzo - Working pressure	(bar)	
Portata di utilizzo - Working flow	(LpH)	

PRESSIONE PRESSURE	PORTATA FLOW	
bar	LpH	cc/min
0	26,0	433
1	22,0	365
2	20,0	330
3	18,0	365
4	16,5	275
5	14,5	240
6	11,0	183
7	6,0	100
8,5	0,0	0



ATTENZIONE: LE PRESTAZIONI POSSONO CAMBIARE SECONDO I TUBI UTILIZZATI

ATTENTION: PERFORMANCES COULD CHANGE AS THE PIPES USED