SERIES E
SOLENOID PUMP ULKA HIGH PRESSURE
Pompa a vibrazione ulka ad alta pressione p.**80**

SERIES E HIGH FLOW
SOLENOID PUMP ULKA
Pompa a vibrazione ULKA p.**81**

SERIES NME
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Pompa a vibrazionae ULKA p.**82**

SERIES NMEHP
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SOLENOID PUMP HIGH PRESSURE
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SERIES E300
SOLENOID PUMP
Pompa a vibrazione p.**89**

SERIES E400
SOLENOID PUMP
Pompa a vibrazione p.**90**

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SOLENOID PUMP
Pompa a vibrazione p.**91**

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SOLENOID PUMP
Pompa a vibrazione p.**92/93**

ULKA | CEME

SOLENOID PUMPS / *Pompe a vibrazione*



SERIES E
SOLENOID PUMP ULKA HIGH PRESSURE
Pompa a vibrazione ULKA 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
- Available with Glow wire test - only IEC market (GWIT test 750°C IEC 60335-1)

Coffee Medical Beverage Steam Water Management

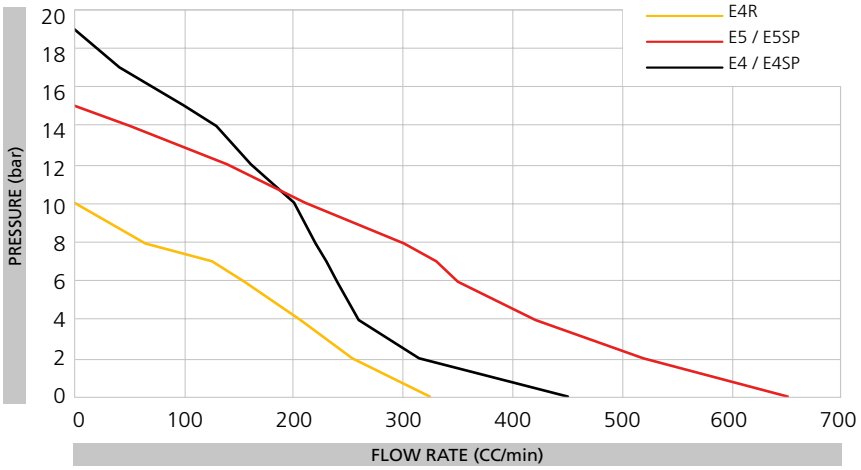
PRODUCT DESCRIPTION
Solenoid pump series E High Pressure includes the models E4, E5 and E4R.
Those models are available with plastic outlet – EP and also with brass outlet – EX.
These type of pumps provide a compact solution for high pressure and low flow applications.

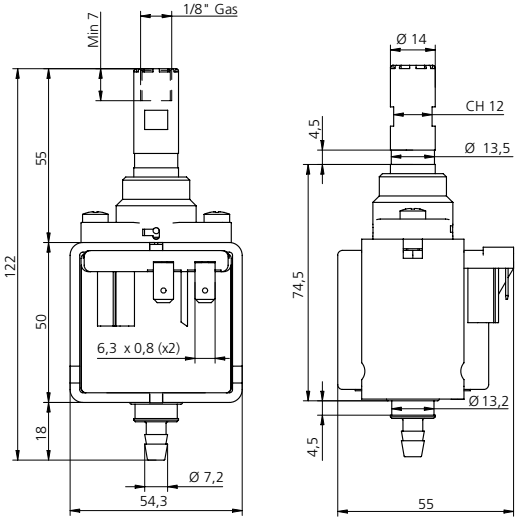
DESCRIZIONE PRODOTTO
Le pompe a vibrazione della serie E alta pressione comprende i modelli E4, E5 e infine E4R.
Questi modelli sono disponibili con l'uscita in plastica, EP e con uscita in ottone, EX.
Questo tipo di pompe offrono una soluzione compatta per applicazioni con alte pressioni e basse portate.

GENERAL FEATURES / *CARATTERISTICHE GENERALI*		
Pump body material / *Materiale corpo pompa*	PA66/POM	
Seal material / *Materiale guarnizioni*	NBR (other material available upon request)	
Piston and springs / *Pistone e molle*	Stainless steel High corrosion resistance	
Fluid temperature / *Temp. fluido*	35°C	
Ambient temperature / *Temp. ambiente*	35°C	
Working fluids / *Fluidi di lavoro*	Water	
Electrical connect. / *Connes. elettrica*	6,3 x 0,8 fast-on terminal	
Insulation class / *Classe di isolamento*	F	
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
E4 E5	240V ~ 50 Hz	2/1	F	48	IMQ
	230V ~ 50 Hz	2/1	F	48	VDE
	220V ~ 50 Hz	2/1	F	48	IMQ
	200V ~ 50-60 Hz	2/1	F	48	-
	100V ~ 50-60 Hz	2/1	F	55	-
	24V ~ 50-60 Hz	2/1	F	48	-
	120V ~ 60 Hz	2/1	F	52	c-UL
E4R	230V ~ 50 Hz	1/1	F	42	VDE
	120V ~ 60 Hz	1/1	F	46	c-UL
E4SP E5SP	230V ~ 50Hz	2/1	F	48	VDE
	120V ~ 60Hz	2/1	F	46	UL
	100V ~ 50-60Hz	1/1	F	52	-
	220V ~ 60Hz	1/1,5	F	55	-





SERIES E HIGH FLOW
SOLENOID PUMP ULKA
Pompa a vibrazione ULKA

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
- Available with Glow wire test - only IEC market (GWIT test 750°C IEC 60335-1)
- Ideal for steam cleaner



PRODUCT DESCRIPTION
Solenoid pump series E High Flow includes the models E77 and E8. Those models are available with plastic outlet – EP and also with brass outlet – EX.
These type of pumps provide a compact solution for low pressure and high flow applications.

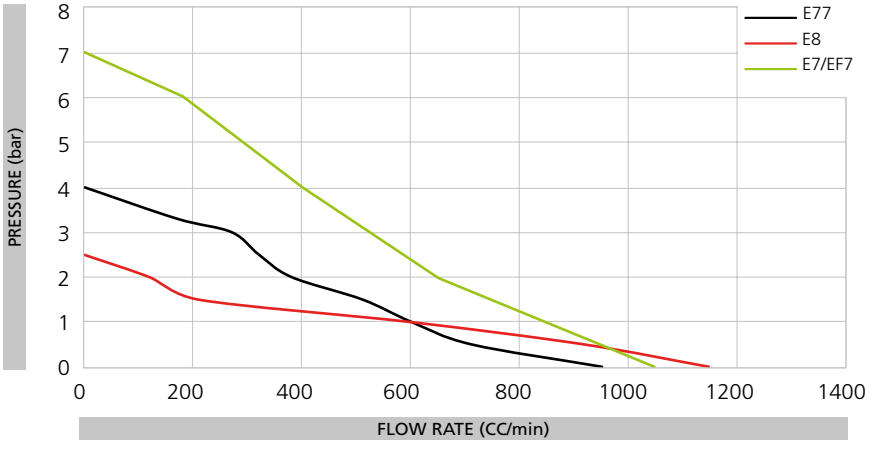
DESCRIZIONE PRODOTTO
Le pompe a vibrazione della serie E alta portata comprende i modelli E77 ed E8. Questi modelli sono disponibili con l'uscita in plastica, EP e con uscita in ottone, EX.
Questo tipo di pompe offrono una soluzione compatta per applicazioni con basse pressioni e alte portate.

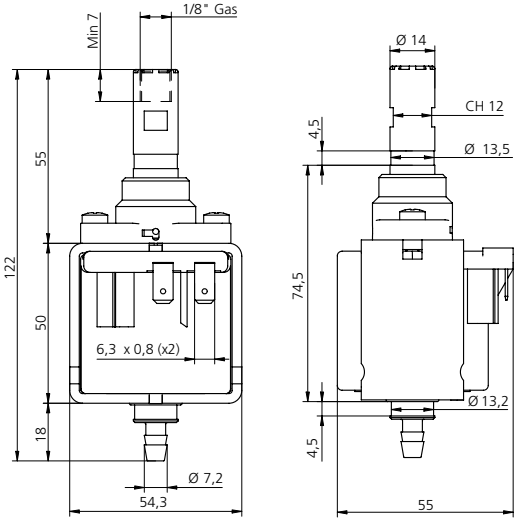
Steam Coffee

GENERAL FEATURES / *CARATTERISTICHE GENERALI*		
Pump body material / *Materiale corpo pompa*	PA66/POM (Brass outlet on EX models)	
Seal material / *Materiale guarnizioni*	NBR (other material available upon request)	
Piston and springs / *Pistone e molle*	Stainless steel High corrosion resistance	
Fluid temperature / *Temp. fluido*	35°C	
Ambient temperature / *Temp. ambiente*	35°C	
Working fluids / *Fluidi di lavoro*	Water	
Electrical connect. / *Connes. elettrica*	6,3 x 0,8 fast-on terminal	
Insulation class / *Classe di isolamento*	F	
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
E77	230V~ 50 Hz	ED 100%	F	28	VDE
	220V ~ 50-60 Hz	ED 100%	F	35	-
	120V~ 60 Hz	ED 100%	A	27	UL
	100V~ 50-60 Hz	ED 100%	F	31	-
E8	230V-240V ~ 50 Hz	ED 100%	F	26	VDE
	220V ~ 50-60 Hz	ED 100%	F	33	-
	120V~ 60 Hz	ED 100%	F	29	c-UL
	100V~ 50-60 Hz	ED 100%	F	28	-
	24V~ 50 Hz	ED 100%	F	28	-
E7	240V ~50 Hz	2/1	F	48	IMQ
	230V~ 50 Hz	2/1	F	48	IMQ/VDE
	220V~ 50 Hz	2/1	F	48	IMQ
	200V~ 50-60 Hz	2/1	F	48	-
	100V~ 50-60 Hz	2/1	F	55	-
	24V ~ 50-60 Hz	2/1	F	48	-
EF7	120V~ 60 Hz	2/1	F	52	c-UL





SERIES NME
SOLENOID PUMP ULKA
Pompa a vibrazione ULKA



HIGHLIGHTS
- Self priming at 0 bar
- Integrated diode (exept. 24V)
- Full detailed electrical and hydraulic inspection
- ED 100%
- 50 ÷ 250 CC/min
- 2 ÷ 3.5 bar

PRODUCT DESCRIPTION
Solenoid micro pump series NME includes 7 different models, with maximum flow rate of 250 cc/min and maximum pressure 3.5 bar. These pumps are suitable for continuous working (ED 100%). The NME's are available with hose barb inlet connection, while the outlet is available both with hose barb and M10x1 thread connection.

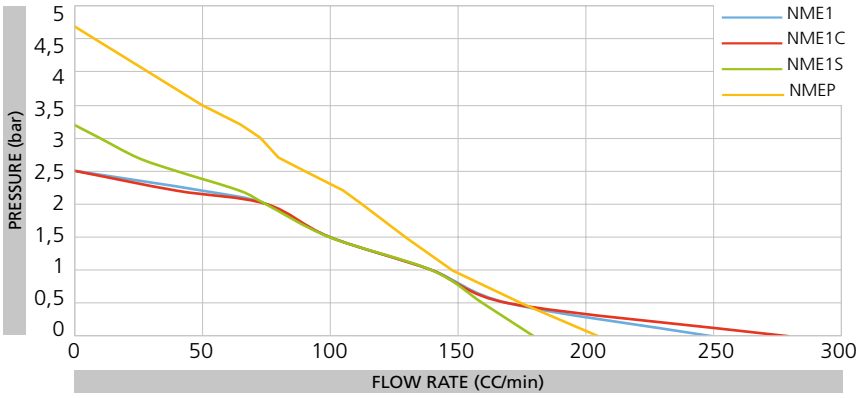
Coffee Steam

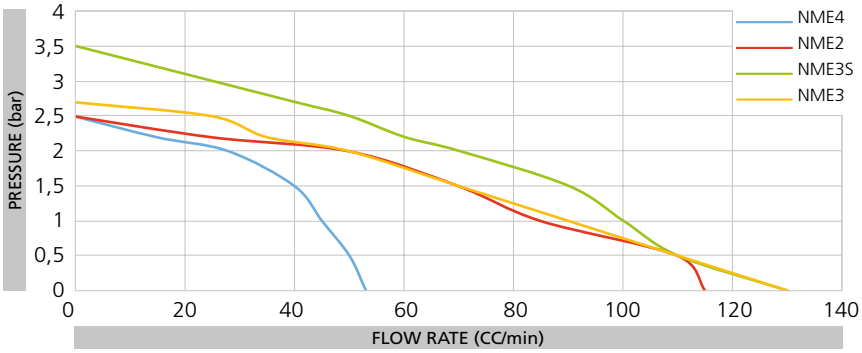
DESCRIZIONE PRODOTTO
La micro pompa a vibrazione serie NME, include 7 diversi modelli, con portata massima di 250 cc/min e pressione massima di 3.5 bar. Queste pompe possono lavorare in continuo (ED 100%). Le NME sono disponibili con attacco in ingresso portagomma, mentre l'uscita è disponibile sia con portagomma che con attacco filettato M10x1.

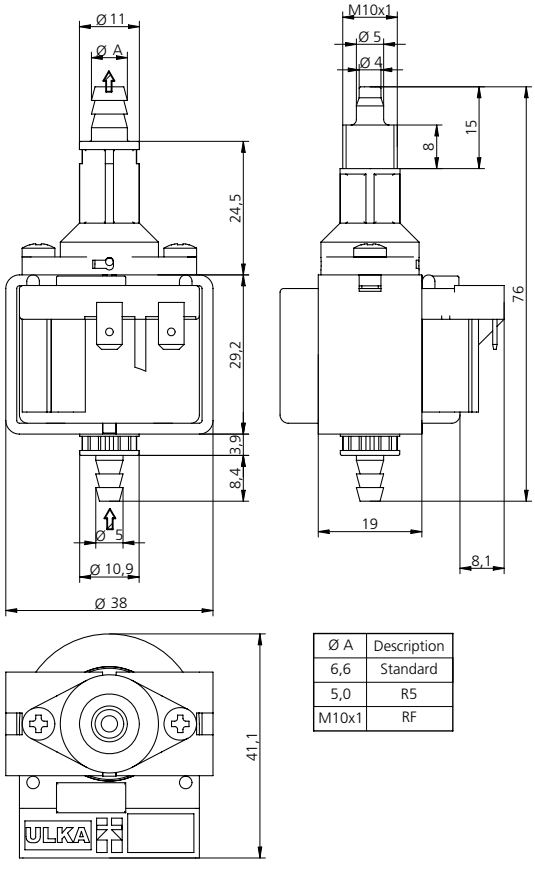
GENERAL FEATURES / *CARATTERISTICHE GENERALI*		
Pump body material / *Materiale corpo pompa*	PA66/POM/PPS	
Seal material / *Materiale guarnizioni*	NBR (other material available upon request)	
Piston and springs / *Pistone e molle*	Stainless steel High corrosion resistance	
Fluid temperature / *Temp. fluido*	35°C	
Ambient temperature / *Temp. ambiente*	35°C	
Working fluids / *Fluidi di lavoro*	Water	
Electrical connect. / *Connes. elettrica*	4,7 x 0,8 fast-on terminal	
Insulation class / *Classe di isolamento*	F	
Hydraulic connections / *Connessione idraulica*	INLET: Hose barb	OUTLET: Hose Barb – M10x1
Mounting position / *Posizone di fissaggio*	any	

SPECIFICATIONS / *CARATTERISTICHE*

MODEL	Voltages	ON/OFF	Class	Coil Power Watt	Approvals
NME	230V-240V ~ 50 Hz	ED 100%	F	16	VDE
	220V ~ 60 Hz	ED 100%	F	16	-
	120V~ 60 Hz	ED 100%	F	16	UL
	100V~ 50-60 Hz	ED 100%	F	16	-
	24V ~ 50-60 Hz	ED 100%	F	16	-
NMEP	230-240V ~ 50Hz	ED 100%	F	16	VDE
	120V ~ 60Hz	ED 100%	F	13	UL







Ø A	Description
6,6	Standard
5,0	R5
M10x1	RF

SERIES NMEHP
SOLENOID PUMP ULKA
Pompa a vibrazione ULKA

HIGHLIGHTS
- Self priming at 0 bar
- Integrated diode (exept. 24V)
- Full detailed electrical and hydraulic inspection
- ED 100%
- 65 ÷ 225 CC/min
- 4.7 ÷ 5.2 bar



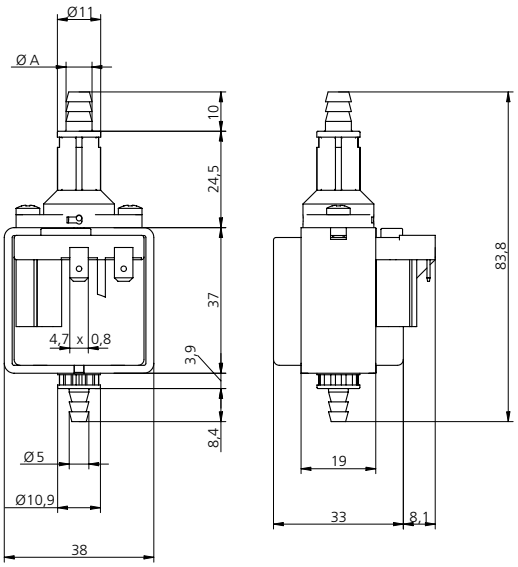
PRODUCT DESCRIPTION
Solenoid micro pump series NMEHP includes 5 different models, with maximum flow rate of 225 cc/min and maximum pressure 5.2 bar. These pumps are suitable for continuous working (ED 100%).
The NMEHP's are available with hose barb inlet connection,
while the outlet is available both with hose barb and M10x1 thread connection.

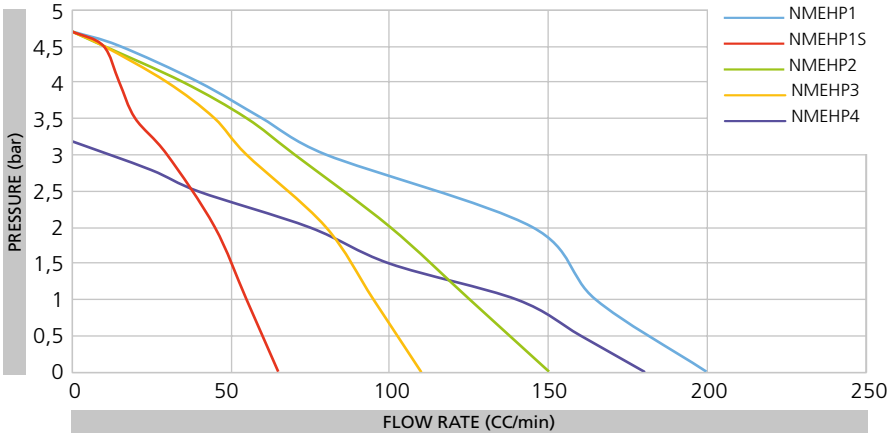
DESCRIZIONE PRODOTTO
La micro pompa a vibrazione serie NMEHP include 5 diversi modelli, con portata massima di 225 cc/min e pressione massima di 5.2 bar. Queste pompe possono lavorare in continuo (ED 100%).
Le NMEHP sono disponibili con attacco in ingresso portagomma,
mentre l'uscita è disponibile sia con portagomma che con attacco filettato M10x1.

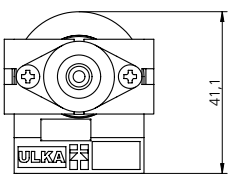
Steam Coffee

GENERAL FEATURES / *CARATTERISTICHE GENERALI*		
Pump body material / *Materiale corpo pompa*	PA66/POM/PPS	
Seal material / *Materiale guarnizioni*	NBR (other material available upon request)	
Piston and springs / *Pistone e molle*	Stainless steel High corrosion resistance	
Fluid temperature / *Temp. fluido*	35°C	
Ambient temperature / *Temp. ambiente*	35°C	
Working fluids / *Fluidi di lavoro*	Water	
Electrical connect. / *Connes. elettrica*	4,7 x 0,8 fast-on terminal	
Insulation class / *Classe di isolamento*	F	
Hydraulic connections / *Connessione idraulica*	INLET: Hose barb	OUTLET: Hose barb - M10x1
Mounting position / *Posizone di fissaggio*	any	

SPECIFICATIONS / *CARATTERISTICHE*					
MODEL	Voltages	ON/OFF	Class	Coil Power Watt	Approvals
NMEHP	230V ~ 50 Hz	ED 100%	F	21	VDE
	220V ~ 60 Hz	ED 100%	F	21	-
	120V ~ 60 Hz	ED 100%	F	17	UL
	100V ~ 50-60 Hz	ED 100%	F	21	-
	24V ~ 50-60 Hz	ED 100%	F	17	-
NMEHP 1S	230V ~ 50hz	1/1	F	27	VDE







ØA	Description
6,6	Standard
5,0	R5
M 10x1	RF

SERIES HF
SOLENOID PUMP ULKA
Pompa a vibrazione ULKA



HIGHLIGHTS
- Self priming at 0 bar
- Integrated diode (exept. 24V)
- Full detailed electrical and hydraulic inspection
- Max flow rate 770 CC/min
- Max pressure 2.5 bar

PRODUCT DESCRIPTION
Solenoid micro pump series HF comprises 4 different models, with maximum flow rate of 770 cc/min and maximum pressure 2.5 bar. Some of these pumps are suitable for continuous working (ED 100%). The HF's are available with hose barb inlet and outlet connections.

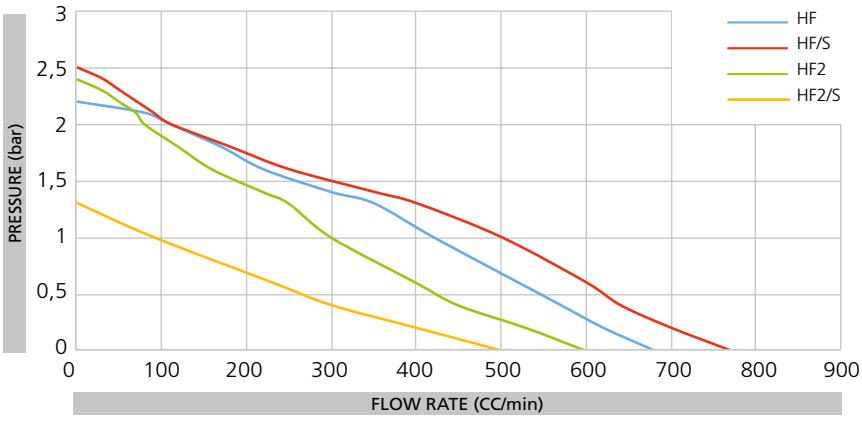
DESCRIZIONE PRODOTTO
La micro pompa a vibrazione serie HF include 4 diversi modelli, con portata massima di 770 cc/min e pressione massima di 2.5 bar. Alcune di queste pompe possono lavorare in continuo (ED 100%). Le HF sono disponibili con attacco in ingresso e uscita portagomma.

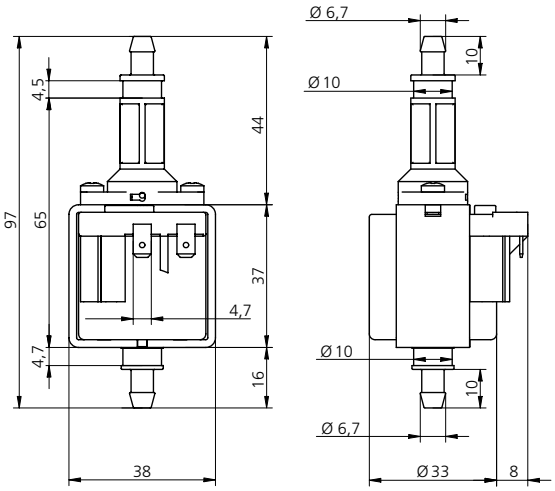
Coffee

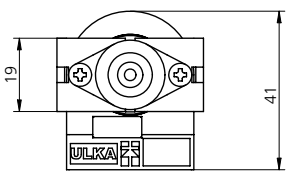
GENERAL FEATURES / *CARATTERISTICHE GENERALI*		
Pump body material / *Materiale corpo pompa*	PA66/POM/PPS	
Seal material / *Materiale guarnizioni*	NBR (other material available upon request)	
Piston and springs / *Pistone e molle*	Stainless steel High corrosion resistance	
Fluid temperature / *Temp. fluido*	35°C	
Ambient temperature / *Temp. ambiente*	35°C	
Working fluids / *Fluidi di lavoro*	Water	
Electrical connect. / *Connes. elettrica*	4,7 x 0,8 fast-on terminal	
Insulation class / *Classe di isolamento*	F	
Hydraulic connections / *Connessione idraulica*	INLET: Hose barb	OUTLET: Hose barb
Mounting position / *Posizone di fissaggio*	any	

SPECIFICATIONS / *CARATTERISTICHE*

MODEL	Voltages	ON/OFF	Class	Coil Power Watt	Approvals
HF	230V ~ 50 Hz	2/1	F	22	VDE
	120V ~ 60 Hz	2/1	F	23	UL
	100V ~ 50-60 Hz	2/1	F	22	VDE
	220V ~ 60 Hz	2/1	F	22	VDE
	120-127V ~ 60Hz	1/1	F	27	VDE
HF/S	230V ~ 50 Hz	1/1	F	27	VDE
	100V ~ 50-60 Hz	1/1	F	28	-
HF2	230V ~ 50 Hz	ED 100%	F	18	-
	120V ~ 60 Hz	ED 100%	F	18	-
	24V ~ 50-60 Hz	ED 100%	F	18	-
HF2/S	230V ~ 50 Hz	ED 100%	F	18	VDE
	120V ~ 60 Hz	ED 100%	F	14	UL
	220V ~ 60Hz	ED 100%	F	18	-







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.

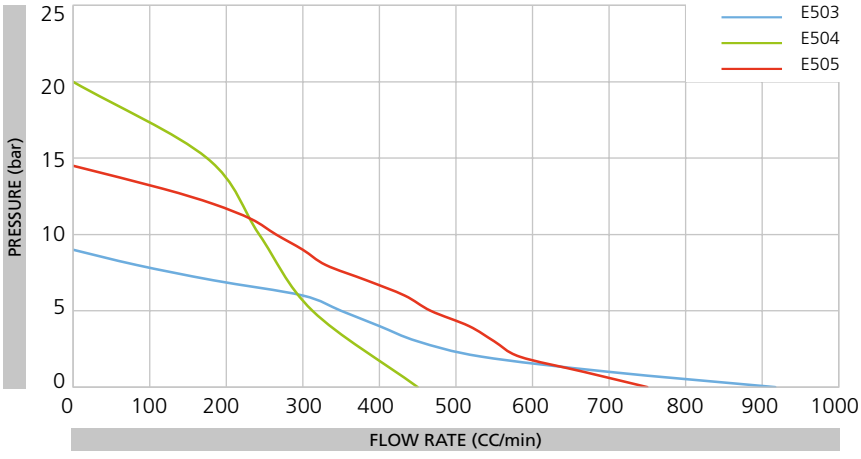
DESCRIZIONE PRODOTTO
Le pompe a vibrazione della serie E500 alta pressione comprendono i modelli E503, E504 ed E505.
Questo tipo di pompe offrono una soluzione compatta per applicazioni con alte pressioni e basse portate.
Le connessioni idrauliche prevedono l'ingresso con portagomma e l'uscita con filetto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

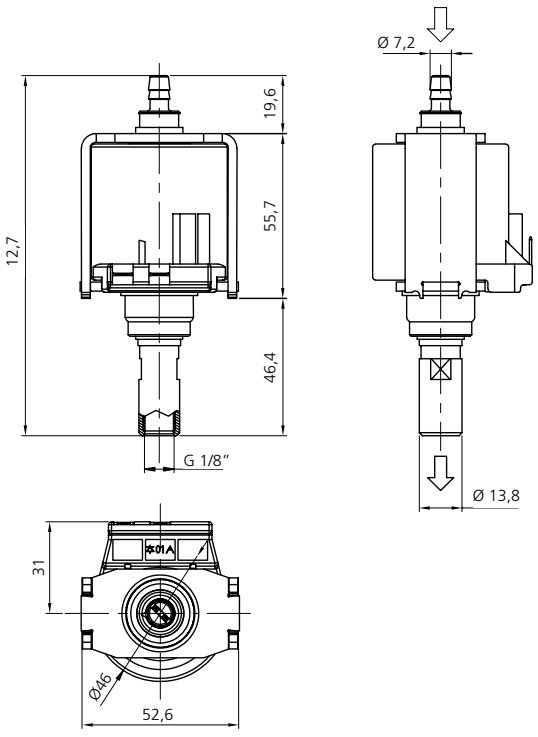
Steam Coffee

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	-





SERIES E500 HF
SOLENOID PUMP HIGH FLOW
Pompa a vibrazione alta portata



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
- Suction power: 100 mbar
- Available with Glow Wire test - only IEC market (GWIT test 750°C IEC 60335-1)

PRODUCT DESCRIPTION
Solenoid pump series E500 High Flow comprises the versions E507, E509, E512 and E514.
These type of pumps provide a compact solution for high flow rate and low pressure applications.
The hydraulic connections are: hose barb inlet and G 1/8" female outlet.

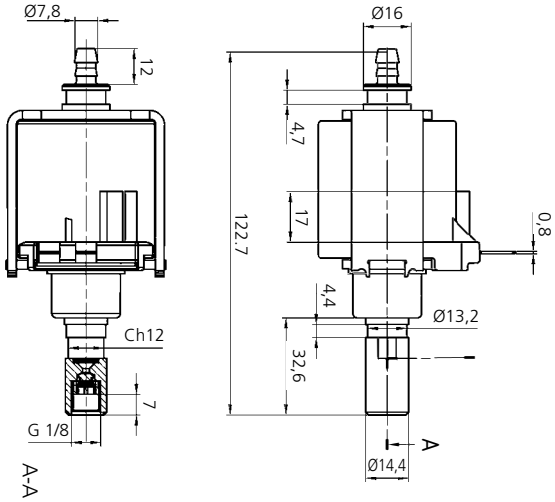
DESCRIZIONE PRODOTTO
Le pompe a vibrazione della serie E500 alta portata comprendono i modelli E507, E509, E512 ed E514.
Questo tipo di pompe offrono una soluzione compatta per applicazioni con alte portate e basse pressioni.
Le connessioni idrauliche prevedono l'ingresso con portagomma e l'uscita con filetto femmina G1/8".

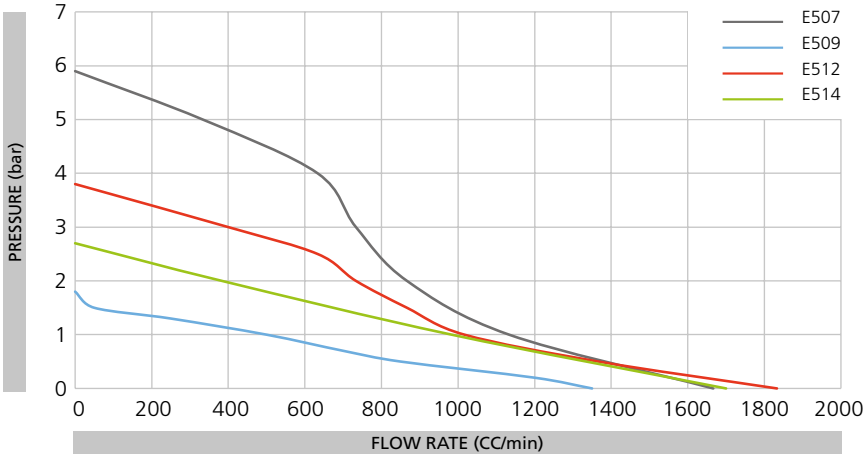
Coffee

GENERAL FEATURES / *CARATTERISTICHE GENERALI*		
Tube guide material / *Materiale del tubo guida*	PA66/PPS	
Seal material / *Materiale guarnizioni*	EPDM, PTFE (other material available upon request)	
Fluid temperature / *Temp. fluido*	60°C (E509, E512, E514)	35°C (E507)
Ambient temperature / *Temp. ambiente*	70°C (E509, E512, E514)	50°C (E507)
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
E507	230V ~ 50 Hz	2/1	F	46W	VDE
	120V ~ 60 Hz	1/2	A	46W	UL
	24V ~ 50Hz	2/1	F	46W	
E509	230V ~ 50 Hz	ED 100%	F	18W	VDE
E512	230V ~ 50 Hz	ED 100%	F	32W	VDE
	120V ~ 60 Hz	1/1,5	A	32W	UL
	208-240V ~ 50-60 Hz	1/2	F	46-60W/38-54W	UL
E514	230V ~ 50 Hz	ED 100%	F	32W	VDE
	120V~ 60 Hz	1/1,5	A	32W	UL





E500 FM
SOLENOID PUMP FM
Pompa a vibrazione FM

HIGHLIGHTS
- Self priming at 0 bar
- Integrated diode
- 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 pumps series E500 FM take advantage from the **FM patented technology**, that allows excellent performances in terms of pressure and flow rate with a more compact coil comparing to series E500.
This series of pump comprises the versions E503 FM and E505 FM.
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.

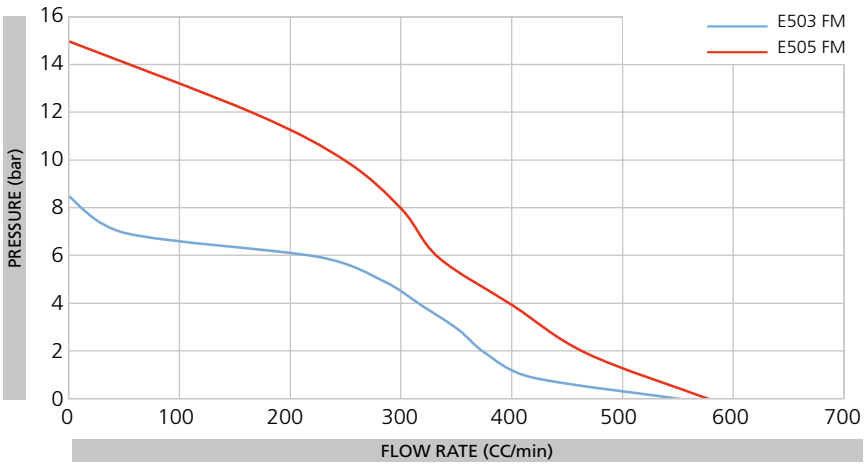
Steam Coffee

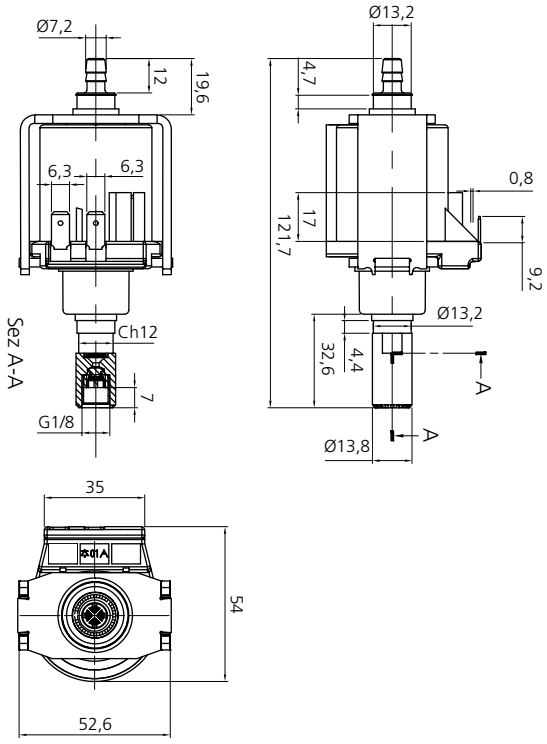
DESCRIZIONE PRODOTTO
*Le pompe a vibrazione della serie E500 FM adottano un **sistema brevettato** che consente di ottenere eccellenti prestazioni di portata e pressione con una bobina più compatta rispetto alle pompe delle serie E500. Questa serie di pompe comprende i modelli E503 FM e E505 FM.*
Questo 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".

GENERAL FEATURES / *CARATTERISTICHE GENERALI*		
Tube guide material / *Materiale del tubo guida*	PA66/PPS	
Seal material / *Materiale guarnizioni*	EPDM, PTFE (other matierials upon request)	
Fluid temperature / *Temp. fluido*	35°C	
Ambient temperature / *Temp. ambiente*	70°C	
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 FM	230V ~50 Hz	2/1	F	47W	VDE
E505 FM	230V ~ 50 Hz	2/1	F	46W	VDE





SERIES E150
SOLENOID PUMP
Pompa a vibrazione



HIGHLIGHTS
- Electrical insulation, class I
- ED 100%
- Diode not integrated
- Class 180° C

PRODUCT DESCRIPTION
Solenoid micro pump series E 150 comprises 7 different models, with maximum flow rate of 270 cc/min and maximum pressure 3.1 bar. These pumps are suitable for continuous working (ED 100%). The E150's are available with hose barb inlet connection, while the outlet is available both with hose barb and G1/8" thread connection.

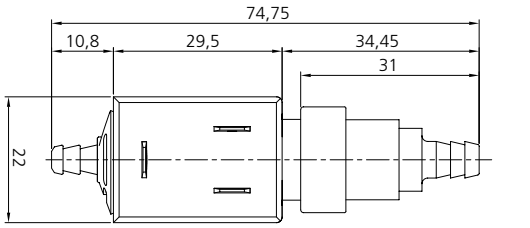
Coffee | Steam | Refrigeration Air-conditioning

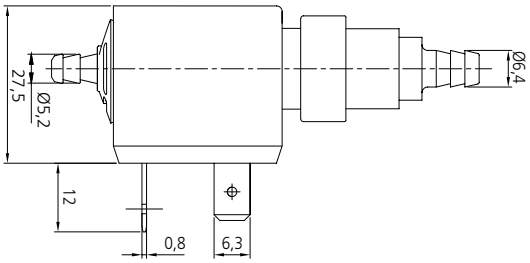
DESCRIZIONE PRODOTTO
La micro pompa solenoid serie E150 include 7 diversi modelli, con portata massima di 270 cc/min e pressione massima di 3.1 bar. Queste pompe possono lavorare in continuo (ED 100%). Le E150 sono disponibili con attacco in ingresso portagomma, mentre l'uscita è disponibile sia con portagomma che con attacco filettato G1/8".

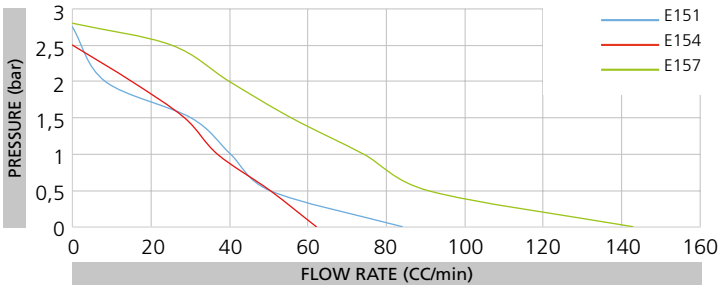
GENERAL FEATURES / *CARATTERISTICHE GENERALI*		
Tube guide material / *Materiale del tubo guida*	PA66/PPS	
Seal material / *Materiale guarnizioni*	EPDM + NBR or FKM	
Fluid temperature / *Temp. fluido*	35°C	
Ambient temperature / *Temp. ambiente*	80°C	
Working fluids / *Fluidi di lavoro*	Water	
Electrical connect. / *Connes. elettrica*	6,3 x 0,8 fast-on terminal	
Insulation class / *Classe di isolamento*	H	
Hydraulic connections / *Connessione idraulica*	INLET: Hose barb	OUTLET: Hose barb - G1/8"
Mounting position / *Posizone di fissaggio*	any	

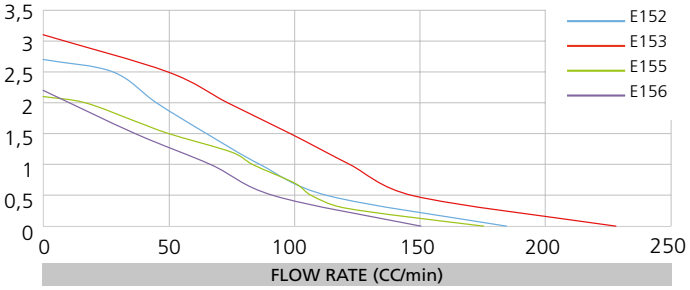
SPECIFICATIONS / *CARATTERISTICHE*

MODEL	Voltages	ON/OFF	Class	Coil Power Watt	Approvals
E151	230V ~ 50 Hz	ED100%	H	15W	VDE
	120V ~ 60 Hz	ED100%	H	15W	UL
E152	230V ~ 50 Hz	ED100%	H	19W	VDE
	120V ~ 60 Hz	ED100%	H	19W	UL
	24V ~ 50 Hz	ED100%	H	19W	-
	12V ~ 50 Hz	ED100%	H	19W	-
E153	230V ~ 50 Hz	ED100%	H	15W	VDE
	120V ~ 60 Hz	ED100%	H	15W	UL
E154	230V ~ 50 Hz	ED100%	H	15W	VDE
	120V ~ 60 Hz	ED100%	H	15W	UL
E155	230V ~ 50 Hz	ED100%	H	15W	VDE
	120V ~ 60 Hz	ED100%	H	15W	UL
E156	230V ~ 50 Hz	ED100%	H	11W	-
	120V ~ 60 Hz	ED100%	H	11W	-
E157	230V ~ 50 Hz	ED100%	H	19W	VDE
	120V ~ 60 Hz	ED100%	H	19W	UL
	24V ~ 50 Hz	ED100%	H	19W	-
	12V ~ 50 Hz	ED100%	H	19W	-

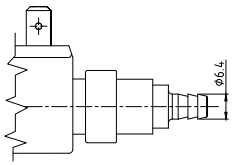
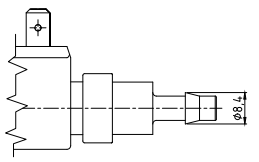
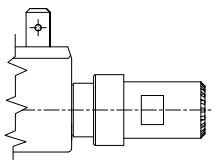




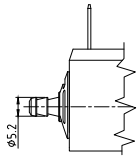
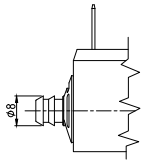




HYDRAULIC CONNECTION OUTLET / *Collegamento idraulico di uscita*

A Barb connection Ø 6mm	B Barb connection Ø 8mm	C (standard connection) 1/8" gas Female
		

HYDRAULIC CONNECTION INLET
Collegamento idraulico di entrata

1 (standard connection) Barb connection Ø 5mm	2 (standard connection) Barb connection Ø 8mm
	

SERIES E300
SOLENOID PUMP
Pompa a vibrazione

HIGHLIGHTS
- Electrical insulation, class II
- ED 100%
- Diode not integrated
- Class 155° C



PRODUCT DESCRIPTION
Solenoid micro pump series E 300 provides a maximum flow rate of 450 cc/min and maximum pressure 5.3 bar. These pumps are suitable for continuous working (ED 100%).
The E300's are available with hose barb inlet connection, while the outlet is available both with hose barb and G1/8" female connection.

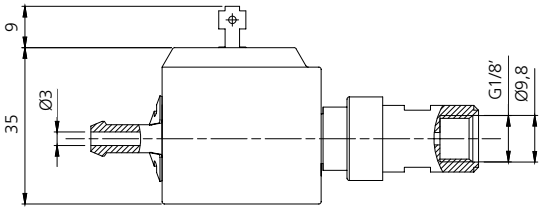
DESCRIZIONE PRODOTTO
La micro pompa solenoide serie E300 offre una portata massima di 450 cc/min e una pressione massima di 5.3 bar. Queste pompe possono lavorare in continuo (ED 100%).
Le E300 sono disponibili con attacco in ingresso portagomma, mentre l'uscita è disponibile sia con portagomma che con attacco filettato G1/8" femmina.

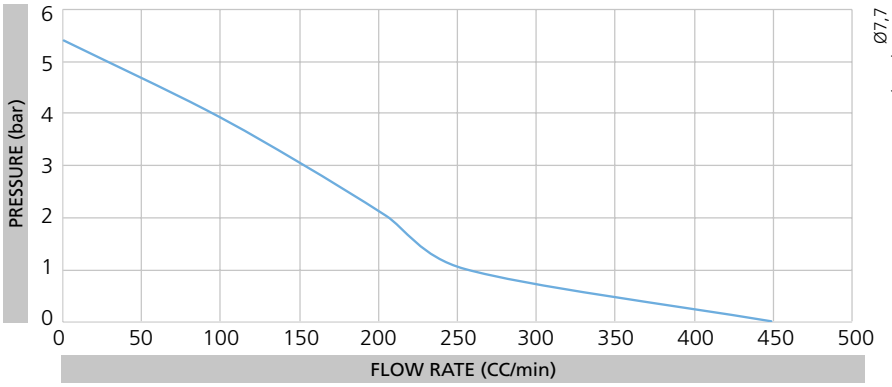
Steam

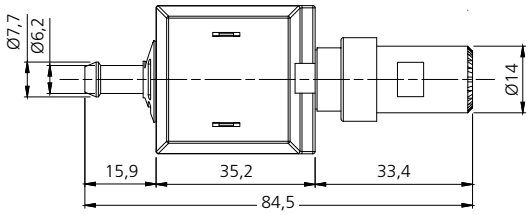
GENERAL FEATURES / *CARATTERISTICHE GENERALI*		
Tube guide material / *Materiale del tubo guida*	PA66/PPS	
Seal material / *Materiale guarnizioni*	EPDM + NBR	
Fluid temperature / *Temp. fluido*	35°C	
Ambient temperature / *Temp. ambiente*	60°C	
Working fluids / *Fluidi di lavoro*	Water	
Electrical connect. / *Connes. elettrica*	6,3 x 0,8 fast-on terminal	
Insulation class / *Classe di isolamento*	F	
Hydraulic connections / *Connessione idraulica*	INLET: Hose barb	OUTLET: G1/8" female (standard) /Hose barb
Mounting position / *Posizone di fissaggio*	any	

SPECIFICATIONS / *CARATTERISTICHE*

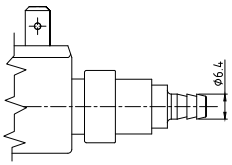
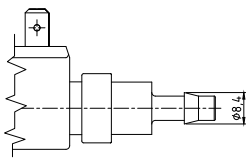
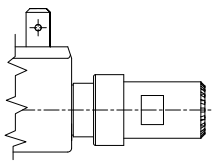
MODEL	Voltages	ON/OFF	Class	Coil Power Watt	Approvals
E300	230V ~ 50 Hz	ED100%	F	20W	VDE
E300	120V ~ 60 Hz	ED100%	F	20W	UL
E300	100V ~ 50/60 Hz	ED100%	F	20W	-
E300	24V ~ 50 Hz	ED100%	F	20W	-



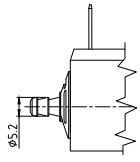
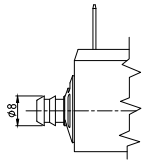




HYDRAULIC CONNECTION OUTLET / *Collegamento idraulico di uscita*

A Barb connection Ø 6mm	B Barb connection Ø 8mm	C (standard connection) 1/8" gas Female
		

HYDRAULIC CONNECTION INLET
Collegamento idraulico di entrata

1 (standard connection) Barb connection Ø 5mm	2 (standard connection) Barb connection Ø 8mm
	

SERIES E400
SOLENOID PUMP
Pompa a vibrazione



HIGHLIGHTS
- Electrical insulation, class II
- ED 100% (exep. Coil 27W)
- Diode not integrated
- Class 155° C

PRODUCT DESCRIPTION
Solenoid micro pump series E 400 comprises 4 versions and provides a maximum flow rate (at 0 bar pressure) of 700 cc/min and maximum pressure of 2.8 bar. The E400 pumps are suitable for continuous working (ED 100%), with the exception of the 27W coil power. The E400's are available with hose barb inlet and outlet connections.

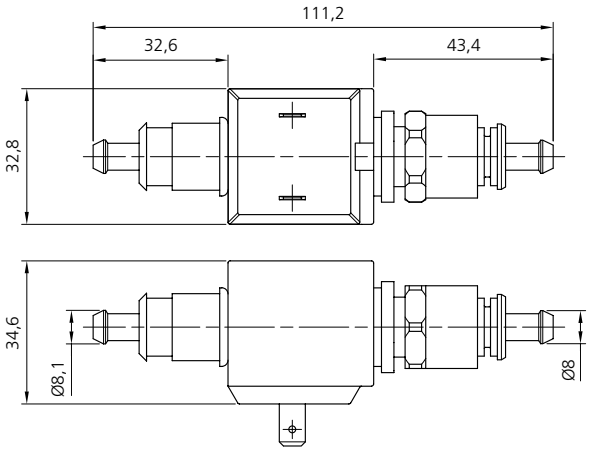
DESCRIZIONE PRODOTTO
La micro pompa solenoide serie E400 comprende 4 diverse versioni e offre una portata massima di 700 cc/min (a 0 bar) e una pressione massima di 2.8 bar. Queste pompe possono lavorare in continuo (ED 100%) ad eccezione di quelle con bobina di 27W. Le E400 sono disponibili con attacco in ingresso e uscita portagomma.

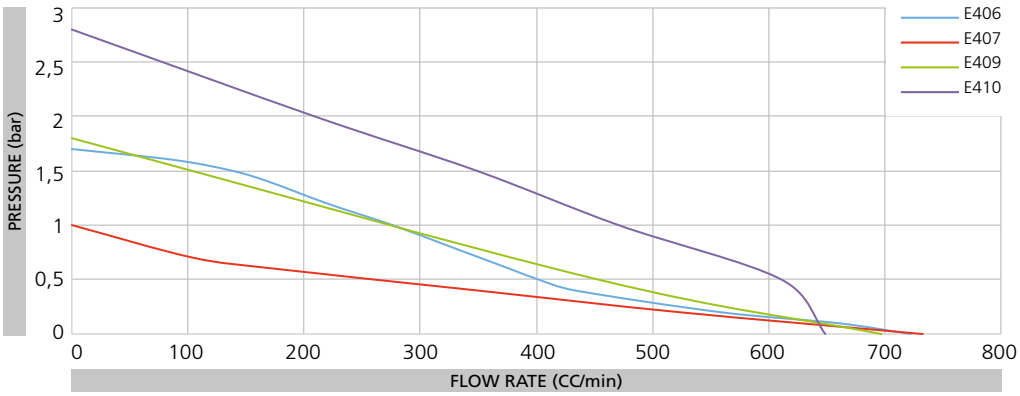
Coffee
Refrigeration
Air-conditioning

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

SPECIFICATIONS / *CARATTERISTICHE*

Model	Voltages	sealing	ON/OFF	Class	Coil Power Watt	Approvals
E406	230V ~ 50 Hz	EPDM	ED100%	F	16W	-
	120V ~ 60 Hz	EPDM	ED100%	F	16W	UL
	100V ~ 50/60 Hz	EPDM	ED100%	F	16W	-
E407	230V ~ 50 Hz	NBR	ED100%	F	16W	-
	120V ~ 60 Hz	NBR	ED100%	F	16W	UL
	100V ~ 50/60 Hz	NBR	ED100%	F	16W	-
E409	230V ~ 50 Hz	EPDM	ED100%	F	16W	-
	120V ~ 60 Hz	EPDM	ED100%	F	16W	UL
	100V ~ 50/60 Hz	EPDM	ED100%	F	16W	-
E410	230V ~ 50 Hz	EPDM	2/1	F	27W	VDE
	120V ~ 60 Hz	EPDM	2/1	F	27W	UL
	100V ~ 50/60 Hz	EPDM	2/1	F	27W	-





SERIES E100
SOLENOID PUMP
Pompa a vibrazione



HIGHLIGHTS
- Self priming at 0 bar
- Class II
- Compact design
- Total media separated
- Low noise

PRODUCT DESCRIPTION
The E100 solenoid pump offers a solution with a total media separation by diaphragm, extremely low noise technology and a remarkable compact design. Available in three different versions, with both 90° and axial hydraulic connections. It's meant to be used on household devices but it is suitable for many different applications.

DESCRIZIONE PRODOTTO
La pompa a vibrazione E100 offre una soluzione con separazione totale dei fluidi, una tecnologia a bassissima rumorosità il tutto con un design dagli ingombri molto ridotti. È disponibile in tre diverse versioni e con connessioni idrauliche sia a 90° che assiali. È stata pensata per l'impiego su elettrodomestici ma può essere impiegata in diverse altre applicazioni.

VDE

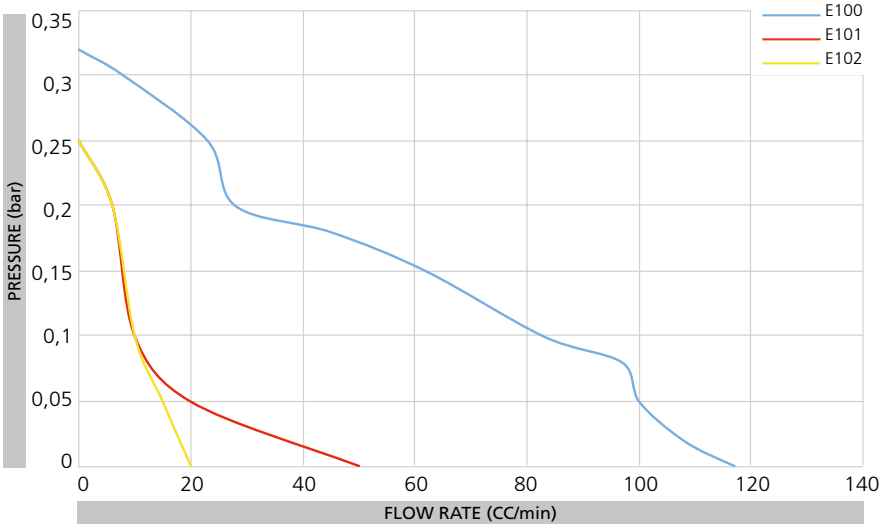
Steam

Water Managemement

GENERAL FEATURES / *CARATTERISTICHE GENERALI*		
Tube guide material / *Materiale del tubo guida*	PA66	
Seal material / *Materiale guarnizioni*	EPDM / SILICON	
Piston and springs / *Pistone e molle*	Stainless steel High corrosion resistance	
Fluid temperature / *Temp. fluido*	35°C	
Ambient temperature / *Temp. ambiente*	65°C	
Tube / *Tubo*	PA66	
Working fluids / *Fluidi di lavoro*	Water	
Electrical connect. / *Connes. elettrica*	6,3 x 0,8 fast-on terminal	
Insulation class / *Classe di isolamento*	F	
Hydraulic connections / *Connessione idraulica*	INLET: Hose barb 3.5mm	OUTLET: Hose barb 3.5mm
Mounting position / *Posizone di fissaggio*	any	

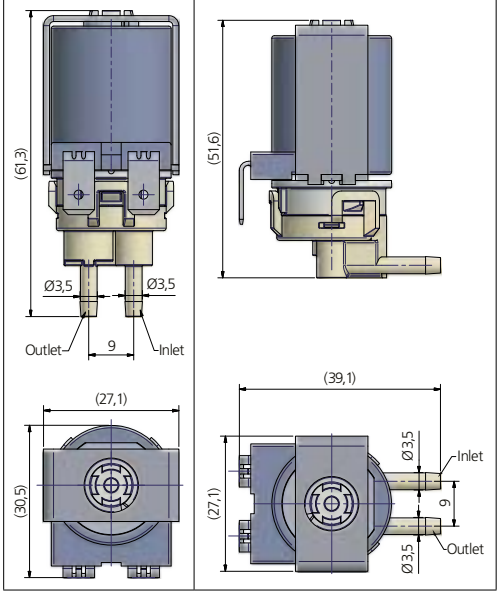
SPECIFICATIONS / *CARATTERISTICHE*

MODEL	VOLTAGES	ON/OFF	CLASS	COIL POWER WATT	APPROVALS
E100	230V ~ 50/60Hz	ED100%	F	11/9W	VDE
E101	230V ~ 50/60Hz	ED100%	F	11W	VDE
E102	230V ~ 50/60Hz	ED100%	F	7W	VDE



HYDRAULIC CONNECTION

E100 AXIAL	E100 90°



SERIES ET3000
SOLENOID PUMP
Pompa a vibrazione



HIGHLIGHTS
- Self priming at 0 bar
- Connections G 3/8”
- Max press: 20 bar – Max flow rate: 180 lt/h
- Full detailed electrical and hydraulic inspection
- Dry working allowed only for the self priming phase

PRODUCT DESCRIPTION
Solenoid pump series ET 3000 includes 2 models, ET3000 and ET3009. Suitable for water and water + ethylene glycol. Among the range of CEME solenoid pumps, the series ET is the more powerful with very high performances. Both the connections, inlet and outlet, are G 3/8” female. Dry working allowed only for self-priming (3÷5 sec).

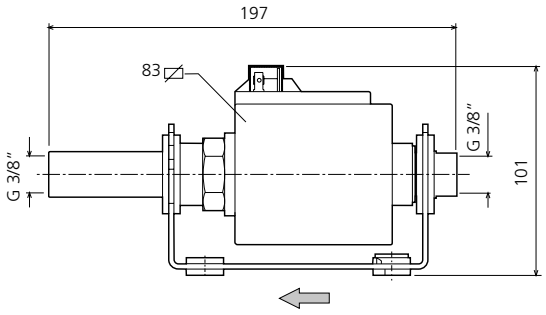
Welding Steam Other Industrial

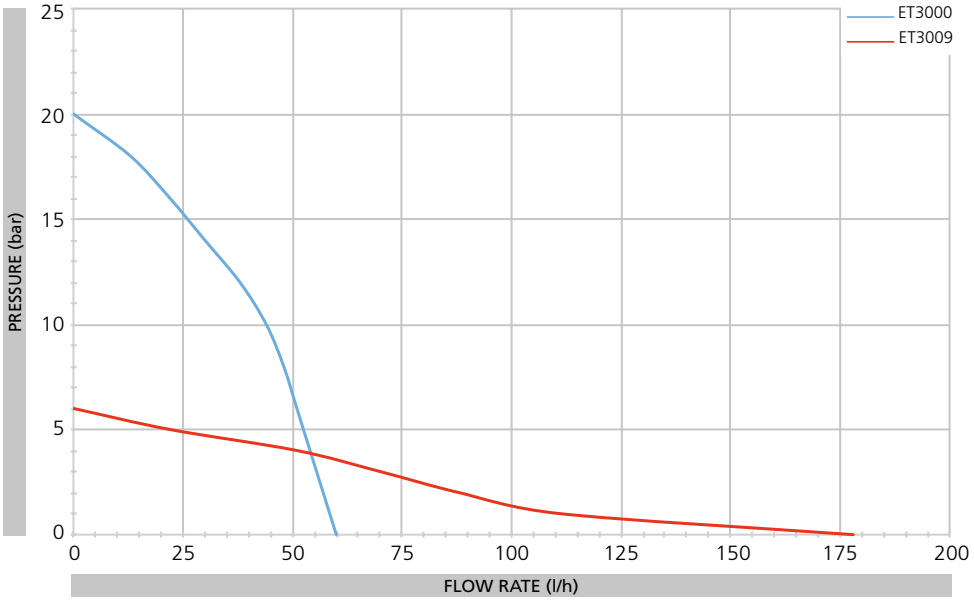
DESCRIZIONE PRODOTTO
Le pompe a solenoide serie ET3000, comprendono 2 modelli, la ET3000 appunto e la ET3009. Queste pompe sono adatte per l’utilizzo con acqua e miscela di acqua + glicole etilenico. Tra le pompe a solenoide di CEME la serie ET3000 rappresenta la più potente e con prestazioni più alte. Entrambe le connessioni, ingresso ed uscita sono G3/8” femmina. Consentito il funzionamento a secco solo per il tempo d’innesco (3÷5 sec).

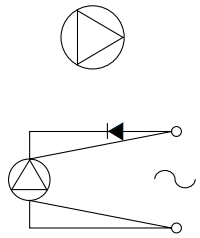
GENERAL FEATURES / *CARATTERISTICHE GENERALI*		
Tube guide material / *Materiale del tubo guida*	Stainless steel – pump outlet in Brass	
Seal material / *Materiale guarnizioni*	FKM - HNBR	
Piston and springs / *Pistone e molle*	Stainless steel	
Fluid temperature / *Temp. fluido*	25°C (ET3000) - 60°C (ET 3009)	
Ambient temperature / *Temp. ambiente*	50°C (ET3000) - 70°C (ET3009)	
Working fluids / *Fluidi di lavoro*	Water / Water + ethylene glycol	
Electrical connect. / *Connes. elettrica*	3 x DIN 43650/ISO-4400/6952 fast-on	
Insulation class / *Classe di isolamento*	I	
Hydraulic connections / *Connessione idraulica*	INLET: G 3/8” female	OUTLET: G 3/8” female
Mounting position / *Posizone di fissaggio*	any	

SPECIFICATIONS / *CARATTERISTICHE*

MODEL	Voltages	ON/OFF	Class	Coil Power Watt	Approvals
ET3000	230V ~ 50 Hz	1/1	H	110W	-
ET3009	230V ~ 50 Hz	ED100%	H	60W	IMQ







TEST PROCEDURE
Schema di prova

HOW OUR TEST IS CARRIED OUT
Come viene effettuato il test

1 Cold pump / *Pompa a freddo*

2 "X" pressure value setting /
Impostazione valore "X" della pressione

3 Rate of flow measured in 1 minute (B)
Tasso di portata misurato in 1 minuto (B)

LEGEND / *Legenda*
Come viene effettuato il test

P. Pump / *Pompa*

A.C. Pump supply at V=Vn
Pompa di alimentazione alternata a V=Vn

T.P. Pressure electronic transducer
Trasduttore di pressione elettronico

D.L.P. Pressure reading display
Display di lettura della pressione

M. Manometer with glycerine inside
Manometro con glicerina all'interno

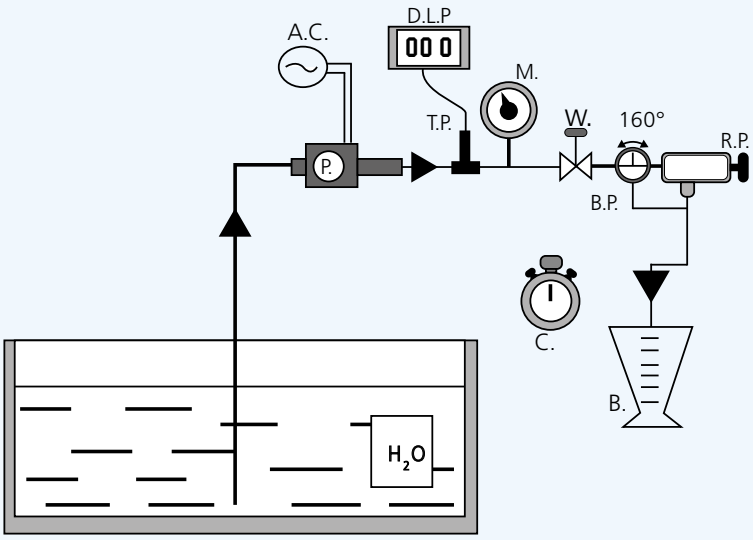
B.P. By-Pass at 0 Bar / *By-Pass a 0 Bar*

R.P. Pressure setting regulator
Impostazione regolatore di pressione

C. Chronometer / *Cronometro*

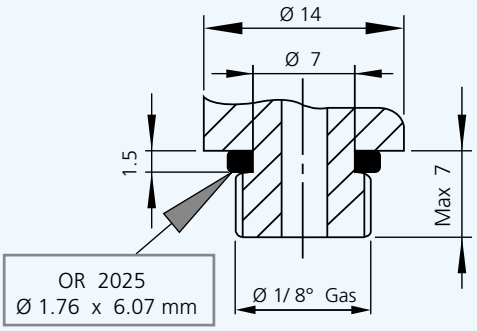
B. Flow Rate measurement container (becker)
Portata contenitore di misura (becker)

W. Water tap to measure the maximum pressure
Rubinetto dell'acqua del per misurare la pressione massima



Drawing showing the ideal junction and hydraulic seal to be applied at the delivery of pump type E

Schema di connessione e tenuta idraulica ideale da applicare alla mandata delle pompe E



All types of pumps are designed and tested using water as fluid. We do not recommend to stock the pumps for long time, especially in high temperature storage house and in particular for pumps without water inside. In these cases we suggest to contact our technical department and ask for advice in order to prevent any kind of pump malfunctioning.

The performances (flow rate and pressure) has been measured under specific conditions, room temp 25°C, fluid temp. 20°C and coil pump "cold". The graphic curves, showed in the previous pages, has to be consider indicative and, as average, we admit a tolerance of +/-15%, in any case we recommend to contact our technical department for all the details.

The thread connection G 1/8" of the plastic pump outlet is not subject to the norm UNI ISO 228/2. In fact the hydraulic seal has to be assured by the sealing.
Here enclosed the drawing (B) shows an example of ideal hydraulic connection.

Tutte le pompe sono state progettate e testate utilizzando l'acqua come fluido di riferimento. Sconsigliamo stoccaggi lunghi e/o temperature di magazzino elevate, soprattutto per pompe prive di acqua all'interno, in questi casi vi suggeriamo di contattare il nostro ufficio tecnico per consigli in proposito così da prevenire malfunzionamenti della pompa.

Le prestazioni (portata e pressione) sono state misurate secondo specifiche condizioni di laboratorio: temperatura ambiente 25°C, temperatura fluido 20°C e pompa a freddo. Le curve dei grafici rappresentate nelle pagine precedenti, sono da considerarsi indicative e, in media, con una tolleranza del +/- 15%. Per maggiori dettagli si consiglia di contattare il nostro ufficio tecnico.

Per il raccordo di uscita in plastica (tipo versione EP), l'indicazione del filetto G 1/8" è indicativa e non soggetta alla norma UNI ISO 228/2. La tenuta idraulica è garantita dalla guarnizione, non dal filetto. Il disegno (B) mostra un esempio di connessione idraulica ideale.