

# ETL500 Stepper



FLOW

0 - 3000 ml/min



## HYDRAULIC DATA\*

Tube bore (ID mm)	ML / REV**	100 RPM	400 RPM	600 RPM (interm. only)
0.5	0.025	2.5	10	15
0.8	0.07	7	30	50
1.6	0.3	30	120	180
3.2	1.00	100	400	600
4.8	2.10	210	840	1260
6.4	3.60	360	1440	2160
8.0	5.30	530	2120	3180

\* Approximate values at free flow with Pharm-A-Clear® tubing and 3 roller configuration.

\*\* Values calculated from 100 RPM.

## ELECTRICAL DATA

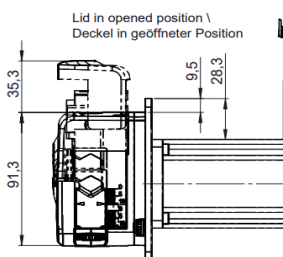
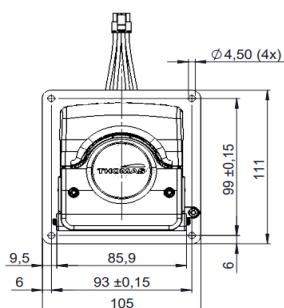
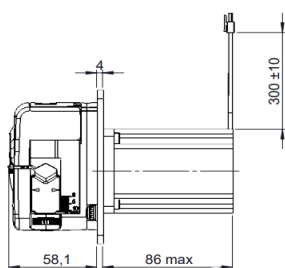
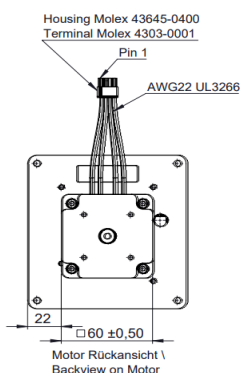
Motor type	2-phase bipolar stepper motor
Nominal voltage	Depending on driver board
Required driver	Bipolar, up to 4.2 A*
Motor speed	0-600 rpm
Operation	CW/CCW
Max. recommended motor speed continuous operation	400 rpm
Max. power consumption	22 W
Motor insulation class	B
Inductance at 1 kHz, 1V	2.2 mH
Winding resistance	0.61 Ω

\* For most peristaltic applications the current draw will not exceed 2.8 A

## GENERAL DATA\*

Pump type	Single-channel peristaltic pump
Media temperature	5 - 80 °C, consider tube temp. range
Ambient temperature	10 - 45 °C
Storage temperature	-30 to +70 °C
Max. continuous system pressure	2 bar
Max. vacuum	95%
Weight	1900 g

## DIMENSIONAL DRAWING



Motor Connection:  
Pin 1 = Schwarz \ Black  
Pin 2 = Grün \ Green  
Pin 3 = Rot \ Red  
Pin 4 = Blau \ Blue

## MODEL KEY

Pos	Options	Description
1	ETL500	Product Line
2	F	Fluid / liquid
3	0 / 1	Tubing: without tubing (0), with tubing (1)
4	AT / FT	Adjustable Tube Holders, Fixed Tube Holders
5	16 / 24	Designed for tube wall thickness 1,6 mm (16) or 2,4 mm (24)
6	NA / 0	Nominal Voltage <b>NA</b> = Not Applicable: nominal input voltage depends on control board; control board not included / <b>0</b> = pump head only
7	ST / 0	Stepper Motor / <b>0</b> = pump head only
8	0600 / 0	Motor speed: <b>0-600</b> rpm stepper motor (external control board required) / <b>0</b> = pump head only
9	AP / 0	Adapter Plate included / <b>0</b> = no adapter plate
10	MP / 0	Mounting Plate included / <b>0</b> = no mounting plate
11	3 / 4	Number of rollers: <b>3</b> rollers or <b>4</b> rollers
12	LT / MT / ST / LST	Occlusion setting for tube specification: Large Tubing (PHI-8.0X1.6, PHI-6.4X1.6, PHI-4.8X1.6, PLTS-LH-4.8X1.6) Large Silicone Tubing (PLTS-LH-8.0x1.6, PLTS-LH-6.4x1.6) Medium Tubing (PHI-3.2X1.6, PHI-1.6X1.6, PLTS-LH-3.2X1.6, PLTS-LH-1.6X1.6) Medium Tubing (PHI-3.2X1.6, PHI-1.6X1.6, PLTS-LH-3.2X1.6, PLTS-LH-1.6X1.6) Small Tubing (PHI-0.8X1.6, PHI-0.5X1.6, PLTS-LH-0.8x1.6, PLTS-LH-0.5x1.6)

## ORDER INFORMATION

Part Number	Model Key
59997520	ETL500-F-0-AT-16-NA-ST-0600-AP-MP-3-ST
59997530	ETL500-F-0-AT-16-NA-ST-0600-AP-MP-4-ST
59997540	ETL500-F-0-AT-16-NA-ST-0600-AP-MP-3-MT
59997550	ETL500-F-0-AT-16-NA-ST-0600-AP-MP-4-MT
59997560	ETL500-F-0-AT-16-NA-ST-0600-AP-MP-3-LT
59997570	ETL500-F-0-AT-16-NA-ST-0600-AP-MP-4-LT
59997580	ETL500-F-0-AT-16-NA-ST-0600-AP-MP-3-LST
59997590	ETL500-F-0-AT-16-NA-ST-0600-AP-MP-4-LST
Other configurations	Upon request
To order call	ASIA +86 510 6878 2258
To order call	EMEA +49 8141 22800
To order call	USA +1 920 457 4891
Or go online @	<a href="https://www.thomaspumps.com/">https://www.thomaspumps.com/</a>

## OPTIONS

Fixed tube setting (no adjustment wheel)
Custom colors
Pump model for thick wall (2.4 mm) tubing
Lid opening sensor
Custom occlusion setting based on customer specification
Pump head only (see separate data sheet)
Control board (39999740), potentiometer (39999750), motor cable (39999720)

The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for the intended use and the user assumes all risk and liability whatsoever in connection therewith. Thomas does not warrant, guarantee or assume any obligation or liability in connection with this information.