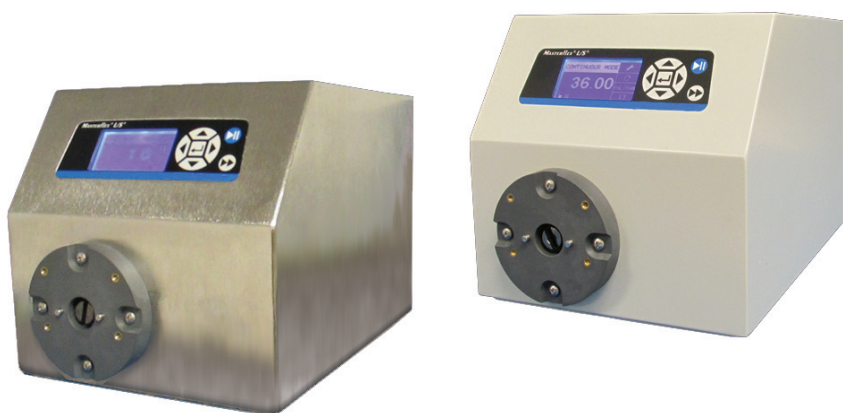


MASTERFLEX®

MASTERFLEX® L/S® SERIES DIGITAL PROCESS PUMP DRIVES




Quick Start **Guide**

SAFETY PRECAUTIONS


 **DANGER:** Remove power from the pump before any cleaning operation is started.

 **WARNINGS:** Remove power from the pump before attempting any maintenance.


The Power switch on the Back Panel is not the main disconnect. A contactor or other device that routinely disconnects and reapplies the AC line to the drive to start and stop the motor can cause drive hardware damage. The drive is designed to use control input signals that will start and stop the motor.

 **WARNINGS:** Tubing breakage may result in fluid being sprayed from pump. Use appropriate measures to protect operator and equipment.

Turn Pump System off before removing or installing tubing. Fingers or loose clothing could be caught in drive mechanism.

 **CAUTIONS:** Replace the fuse only with one of the same type and rating. The fuse rating and type are stated on the rear panel.


Power must be turned off before connecting the external remote control cable to prevent damage to the drive.

 **CAUTIONS:** To avoid electrical shock, the power cord protective grounding conductor must be connected to ground. Not for operation in wet locations as defined by EN61010-1.

If the product is not used in a manner specified in the instructions, the protection provided by the equipment may be impaired.


Explanation of Symbols

 **CAUTION:** Risk of Danger. Consult Operator's manual for nature of hazard and corrective actions.

 **CAUTION:** Risk of crushing. Keep fingers away from rotor while pump is in operation. Stop pump before loading or unloading tubing.

 **CAUTION:** Risk of electric shock. Consult Operator's manual for nature of hazard and corrective actions.

WARNING: Product Use Limitation

 **This product is not designed for, nor intended for use in patient connected applications; including, but not limited to, medical and dental use, and accordingly has not been submitted for FDA approval.**

This product is not designed for, nor intended for use in hazardous duty areas as defined by ATEX or the NEC (National Electrical Code); including, but not limited to use with flammable liquids. Consult the factory for products suitable for these types of applications.



EN61010-1:2001 L.V. DIR.
EN61326-1:2006 EMC DIR.
EN60529/ IEC 60034-5



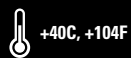
2 year
warranty



07575-30, -40 0.1-600 rpm



+0C, +32F



+40C, +104F



70 dba @ 1M



07575-30, -40 IP66 (NEMA 4X)



07575-30, -40
26 lbs (11.8 kg)



-25C, -13F



+65C, +149F

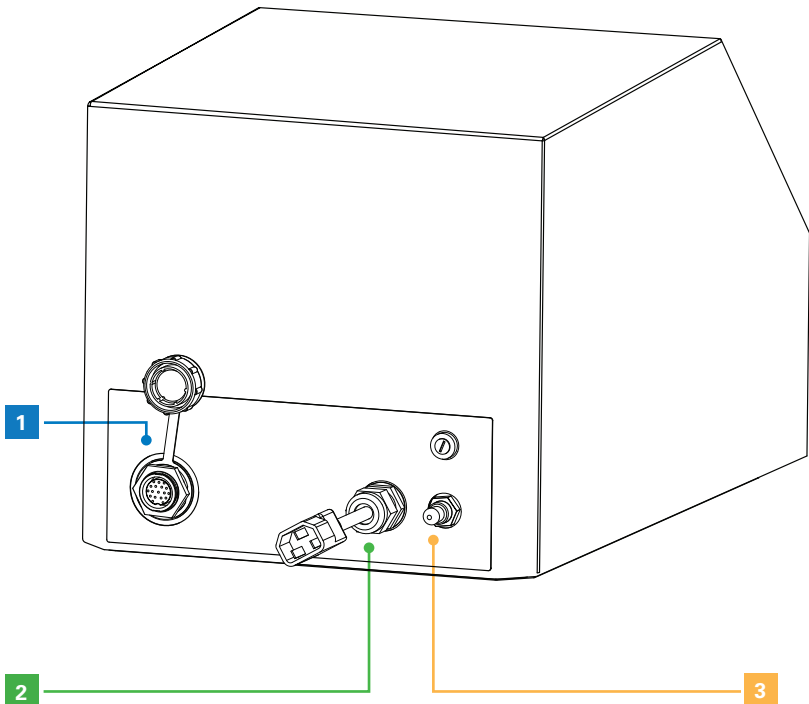
Replacement Cord/Plug Sets Ordering Information

Catalog Number	Description	Catalog Number	Description	Catalog Number	Description
50001-60	Australia	50001-69	Israel	50001-76	Italy
50001-62	Denmark	50001-70	Europe	50001-78	U.S. 230V
50001-64	India	50001-72	England	—	—
50001-68	U.S. STD. 115V	50001-74	Switzerland	—	—

Product Accessories

07575-80 Remote control cable 31-pin (NEMA 4X), 25ft (7.62m)

07575-84 Footswitch (NEMA 4X)



Step 1

Screw in Motor cable

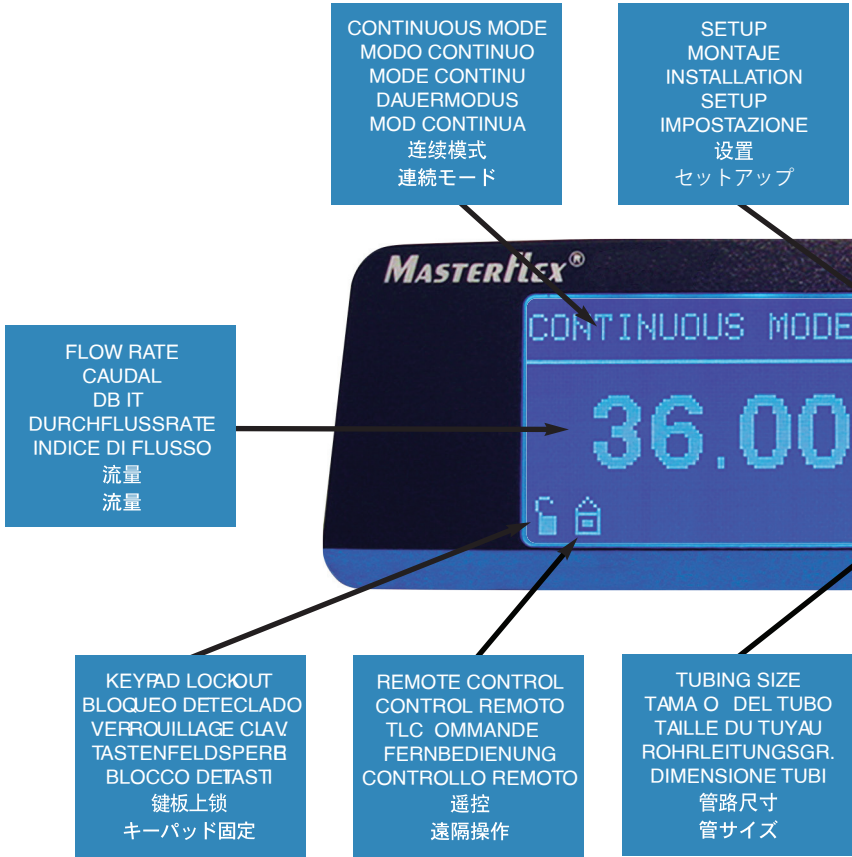
Step 2

Plug in Power Cable

Step 3

Switch On Power

Graphic Interface



4 

LANGUAGE
 ENGLISH
 ESPANOL
 FRANCAIS
 DEUTSCH
 ITALIANO
 日本語

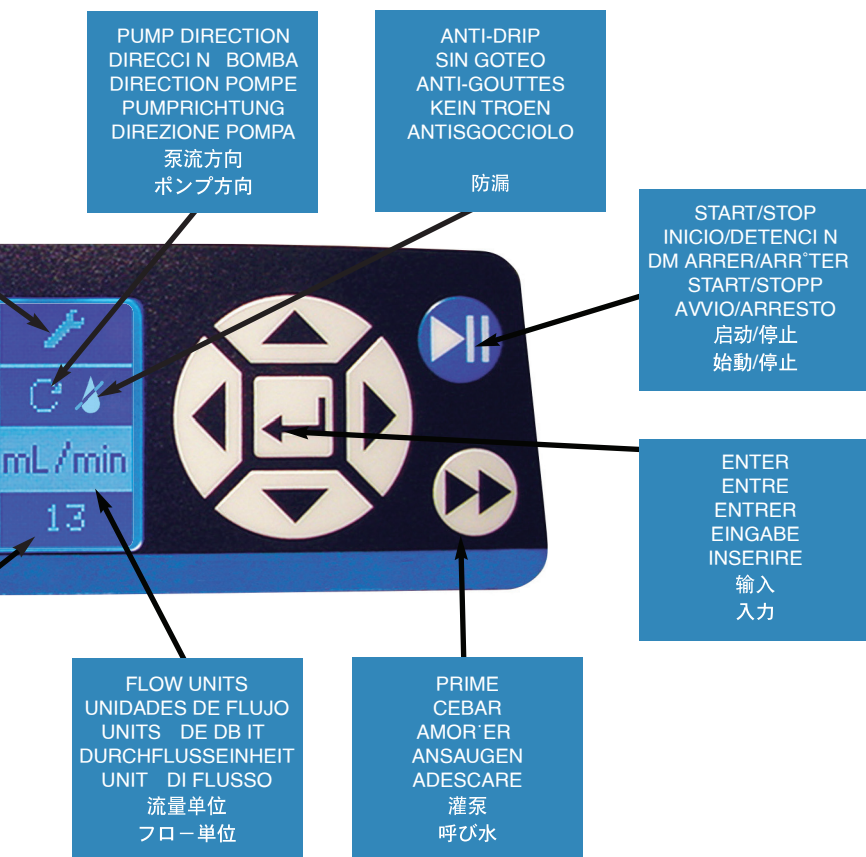
LANGUAGE
 IDIOMA
 LANGUE
 SPRACHE
 LINGUA
 语言
 言語

5 

MAIN MENU
 SOUNDS
 AUTOSTART
 DISPLAY CONTRAST
 LANGUAGE
 DEFAULT SETTINGS

MAIN MENU
 MEN PRINCIPAL
 MENU PRINCIPAL
 HAUPTMEN
 MENU PRINCIPALE
 主菜单
 メインメニュー

Keypad Legend

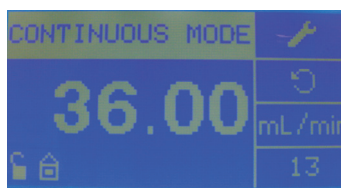


6



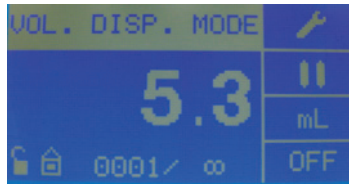
CONTINUOUS MODE
MODO CONTINUO
MODE CONTINU
DAUERMODUS
MOD CONTINUA
连续模式
連続モード

7



CONTINUOUS MODE
MODO CONTINUO
MODE CONTINU
DAUERMODUS
MOD CONTINUA
连续模式
連続モード

7



VOL DISP. MODE
 VOLUMEN DISP.
 DISTR. VOLUME
 MENG. F RD .MOD.
 MOD DIST VOLUME
 定量輸注模式
 分量給液モード

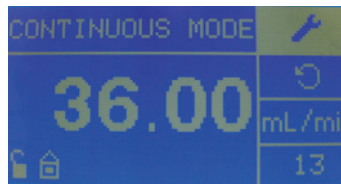


TIME DISP. MODE
 TEMPORIZAR DISP.
 DISTR. PROGRAM.
 ZEITFR D.MOD.
 MOD DIST TEMPO
 定时輸注模式
 定时給液モード



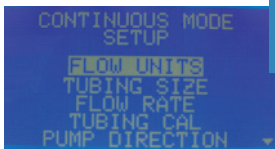
COPY DISP. MODE
 DUPLICAR DISP.
 DISTR. REPETEE
 WH.F RD .MOD.
 MOD DIST COPIA
 拷贝輸注模式
 コピー給液モード

8

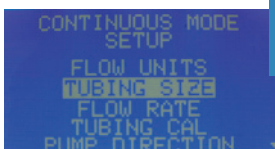


SETUP
 MONTAJE
 INSTALLATION
 SETUP
 IMPOSTAZIONE
 设置
 セットアップ

9



FLOW UNITS
 UNIDADES DE FLUJO
 UNITS DE DB IT
 DURCHFLOSSEINHEIT
 UNIT DI FLUSSO
 流量单位
 フロー単位



TUBING SIZE
 TAMA O DEL TUBO
 TAILLE DU TUYAU
 ROHRLEITUNGSGR.
 DIMENSIONE TUBI
 管路尺寸
 管サイズ



9



CONTINUOUS MODE SETUP

FLOW UNITS
TUBING SIZE
FLOW RATE
TUBING CAL
PUMP DIRECTION

FLOW RATE
CAUDAL
DB IT
DURCHFLOßRATE
INDICE DI FLUSSO
流量
流量

FLOW RATE mL/min
36.00
EXIT



CONTINUOUS MODE SETUP

FLOW UNITS
TUBING SIZE
FLOW RATE
TUBING CAL
PUMP DIRECTION

TUBING CAL
CAL DE TUBERÍA
TALON. TUYAU
ROHRLEITUNGSKAL
TARATURA TUBI
管路校准
配管校正

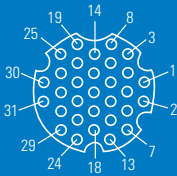
TUBING CAL START
6.000 mL
36.00 mL/min
EXIT CLEAR 13



ANTI-DRIP
ON
OFF
EXIT

ANTI-DRIP
SIN GOTEO
ANTI-GOUTTES
KEIN TROEN
ANTISGOCCIOLO
液ダレなし
防漏

ANTI-DRIP
45 °
EXIT



Pin No. Circ.-31

Pin No.
Circ.-31

Description

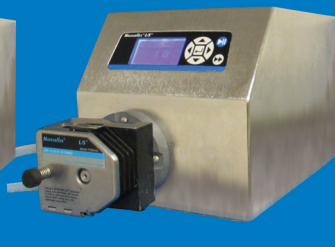
Pin No.	Description
1	Speed Control Voltage Input (0-10 V)
3	Speed Control Current Input (0-20 mA)
5	Speed Control Input Ground Return
7	Speed Signal Current Output (0-20 mA)
9	Speed Signal Output Ground Reference
11	(Motor Running N.O. Default) 1A @24V (Open Collector)
13	Motor Running Ground Return
15	(Motor Running N.C. Default) 1A @24V (Open Collector)
2	Speed Signal Voltage Output (0-10 V)
4	Remote Start/Stop Input
6	Remote CW/CCW Input
8	Remote Start/Stop, CW/CCW, Prime Grnd Ref.
10	Tach Ground Reference
12	Tach Output (open collector)
14	Remote Prime Input
20	General Alarm Output
22	Local/Remote Indicator
16-19, 21	Reserved - Not Used
23, 26-31	Reserved - Not Used
24	Aux 24V+
25	Aux 24V-

L/S Digital Process Pump Drives and Systems

DESCRIPTION	CAT. NO.
L/S Stainless-Steel Digital Process Drive 0.1 to 600 rpm	07575-30
L/S Powder-Coat Digital Process Drive 0.1 to 600 rpm	07575-40
To designate a bundled system with Drive and Pump Head:	
L/S Stainless-Steel Process Pump System with EASY-LOAD® II Pump Head	77975-25
L/S Stainless-Steel Process Pump System with High Performance Pump Head	77975-35
L/S Powder-Coat Process Pump System with EASY-LOAD® II Pump Head	77975-45



**L/S Stainless-Steel
Process Pump System
with EASY-LOAD II
Pump Head**
77975-25



**L/S Stainless-Steel
Process Pump System
with High Performance
Pump Head**
77975-35



**L/S Powder-Coat
Process Pump System
with EASY-LOAD II
Pump Head**
77975-45

MASTERFLEX®

US & Canada only

Toll Free 1-800-MASTERFLEX | 1-800-637-3739

Outside US & Canada

1-847-381-7050

***EN809 manufactured by:**

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