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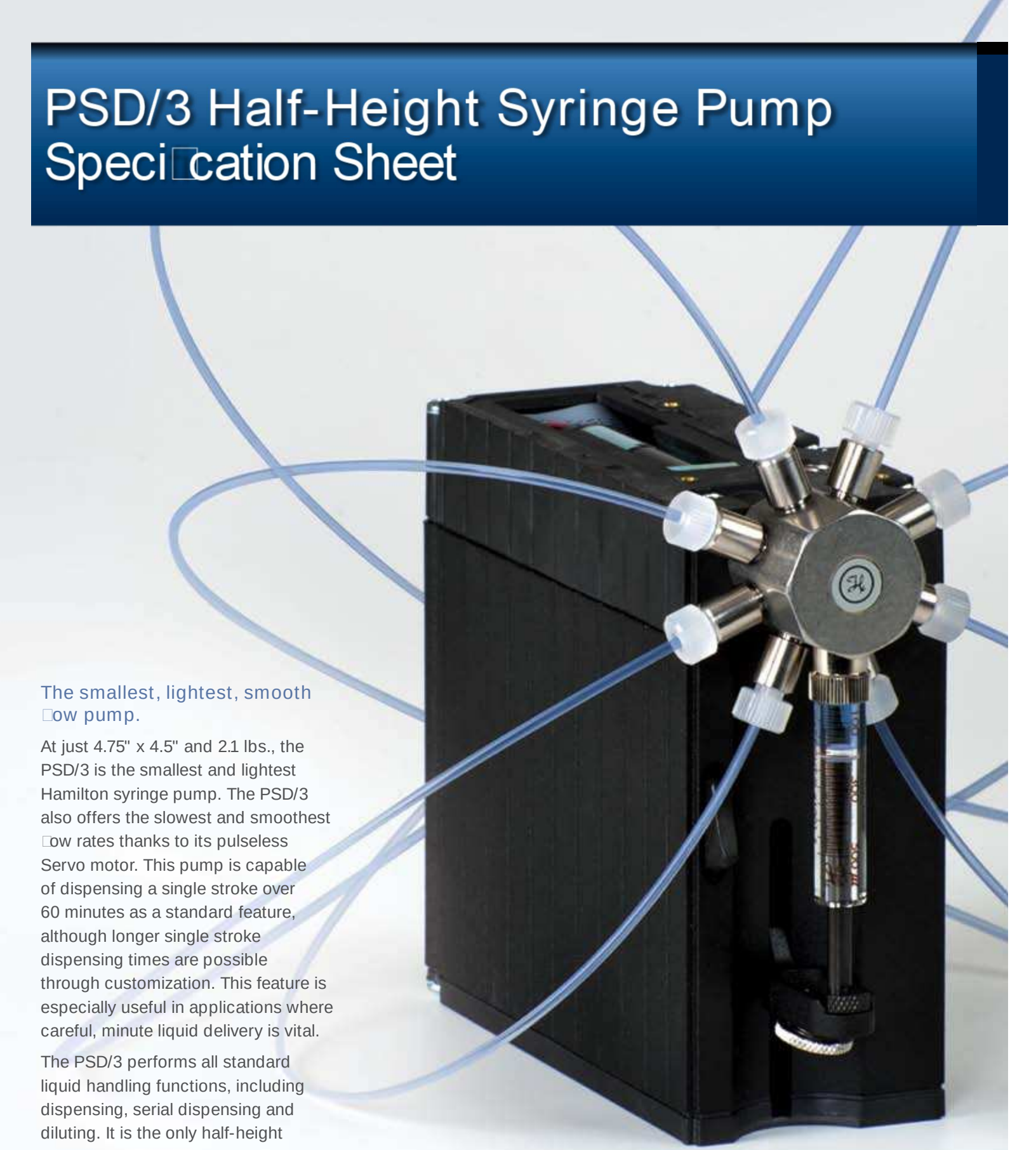
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Find the *Hamilton PSD3* at our website: *Click HERE*

PSD/3 Half-Height Syringe Pump Speci□cation Sheet



The smallest, lightest, smooth □ow pump.

At just 4.75" x 4.5" and 2.1 lbs., the PSD/3 is the smallest and lightest Hamilton syringe pump. The PSD/3 also offers the slowest and smoothest □ow rates thanks to its pulseless Servo motor. This pump is capable of dispensing a single stroke over 60 minutes as a standard feature, although longer single stroke dispensing times are possible through customization. This feature is especially useful in applications where careful, minute liquid delivery is vital.

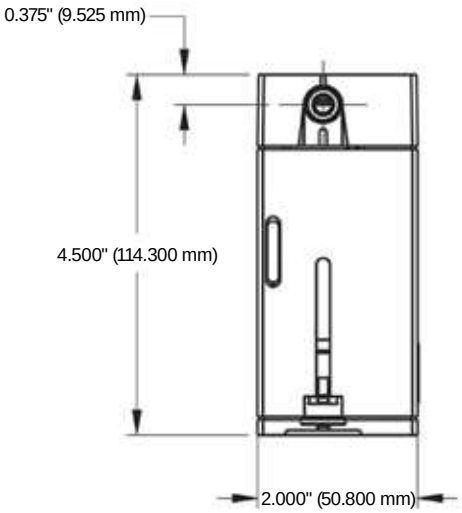
The PSD/3 performs all standard liquid handling functions, including dispensing, serial dispensing and diluting. It is the only half-height pump with an easy, push button valve exchange. Also, the PSD/3 is the only syringe pump that is mostly enclosed and can be □ush mounted.

HAMILTON®

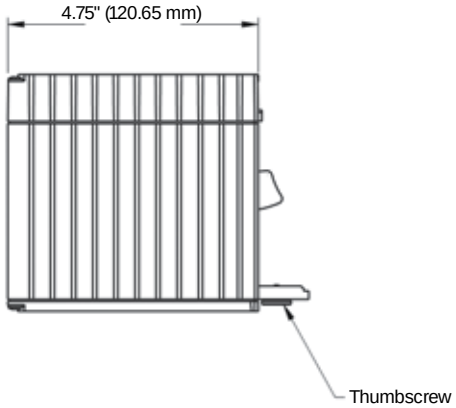
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PSD/3 Product Drawings and Dimensions

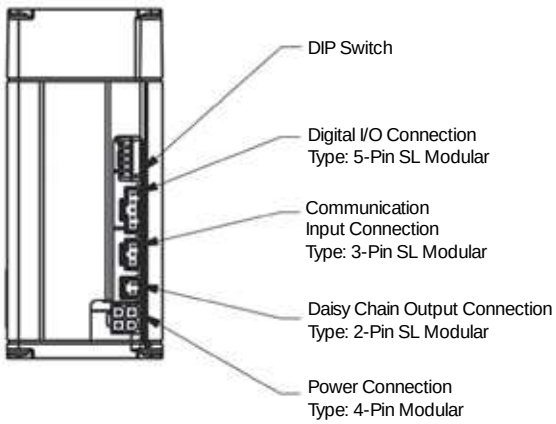
Front



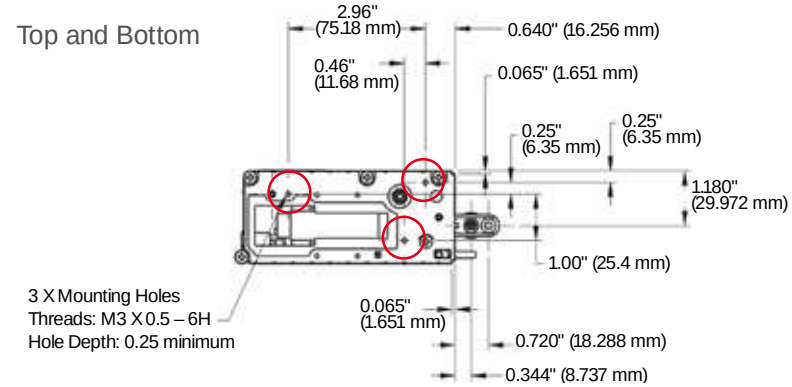
Side

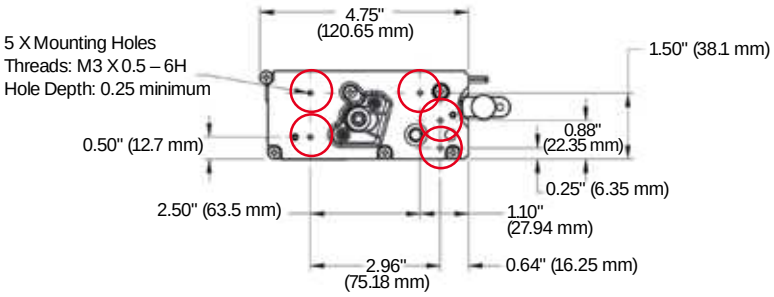


Back



Top and Bottom





PSD/3 Precision Syringe Pump

Description	Part No.
PSD/3 Precision Syringes Pump	55452-01
Demo Communication Cable	57024-01
Power Supply	4833-01
PSD/3 Starter Kit Containing Software CD, Demo Communication Cable, Serial-to-USB Adapter, and Power Supply	64316-03





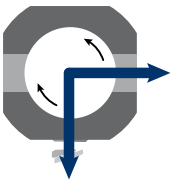
30 mm Syringes for PSD/3

Volume	UHMW-PE Part No.	PTFE Part No.
12.5 µL	N/A	5495-10
25 µL	8250-15	5495-15
50 µL	8250-20	5495-20
100 µL	8250-22	5495-22
125 µL	8250-25	5495-25
250 µL	8250-30	5495-30
500 µL	8250-35	5495-35
1 mL	8250-37	5495-38
1.25 mL	8250-40	5495-40
2.5 mL	8250-45*	5495-45*
5 mL	8250-50*	5495-50*
12.5 mL	N/A	5495-55*

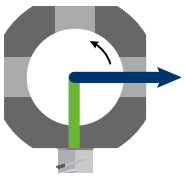
*Not compatible with 6500-01, 6500-02, 6765-01 or 6766-01.



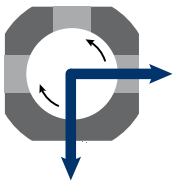
Valves for PSD/3



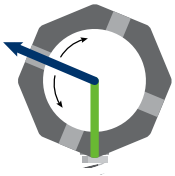
Fluid Logic: 3-2
Valve Description:
90° Flow Path
Two ports, plus syringe port
Ceramic Part No.:
5208-01
6763-01*
PTFE/CTFE Part No.:
39298**
39221**



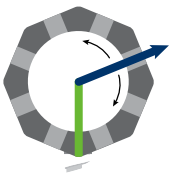
Fluid Logic: 3-5
Valve Description:
Distribution Flow Path
Three ports, plus syringe port
Ceramic Part No.:
5208-02
6764-01*
PTFE/CTFE Part No.:
6328-01*



Fluid Logic: 4-2
Valve Description:
90° Flow Path
Three ports, plus syringe port
Ceramic Part No.:
9271-01



Fluid Logic: 4-5
Valve Description:
Distribution Flow Path
Four ports plus syringe port
Ceramic Part No.:
6500-02
6765-01*
PTFE/CTFE Part No.:
6327-01*



Fluid Logic: 8-5
Valve Description:
Distribution Flow Path
Eight ports plus syringe port
Ceramic Part No.:
6500-01
6766-01*

*Stainless steel housing. All other housings are aluminum.
**Valve 39221 has a 0.070" (1.778 mm) and valve 39298 has a 0.059" (1.498 mm) uid path diameter.
All tubing connections are compatible with ¼" x 28 anged or angeless ttings.
Select ceramic valves are available in 200 – 400 psi upon request.

PSD/3 Specifications

General Specifications	
Accuracy	± 1% @ 100% stroke
Precision	≤ 0.2% @ 100%
Fluid Path	Borosilicate glass, PTFE, CTFE, PFA or ceramic
Weight	2.11 lbs. (0.95 kg.)
RoHS Compliant	Yes
Linear Force Capability	7* lbf. (3.16 kgf.)
Power Requirements	
Supply Voltage	24 VDC
Current	1.0 amp typical, 2 amps maximum
Syringe and Syringe Drive	
Syringe Volumes	12.5 µL to 12.5 mL
Syringe Materials	Glass barrel, PTFE or PFA insert, stainless steel or aluminum plunger with PTFE coating, PTFE or UHMW-PE plunger tip
Resolution	Adjustable 1,000, 2,000, 15,000 and 30,000 counts
Syringe Drive Mechanism	Closed loop DC servo motor
Stroke Length	30 mm
Syringe Speeds	0.5 to 65,000 seconds per full syringe stroke
Valve and Valve Drive	
Valve Drive Speed	390 ms @ 90 degrees
Valve Drive	Servo motor with optical encoder feedback
Valve Fittings	¼" – 28
Valve Materials	CTFE, PTFE or ceramic
Nominal Fluid Path Diameter	Ceramic: 0.060" (1.524 mm) PTFE: 0.059" (1.498 mm) unless otherwise noted
Communication	
Type	RS-232
Protocols	Hamilton Reno Protocol 1, Hamilton Bonaduz DIN Protocol
Baud Rate	9600
Data Bits	7
Parity	Odd
Stop Bit	1
Daisy Chain Length	Up to 16 individual pumps
Programmable Capabilities	Backlash compensation, syringe speeds, terminate moves and delays, error detection, valve rotation selection
Environmental Operating and Storage Range	
Operating Temperature	60°F (15°C) to 95°F (35°C)
Operating Humidity	20% to 95% relative humidity, non-condensing
Storage Temperature	-4°F (-20°C) to 158°F (70°C)
Storage Humidity	20% to 95% relative humidity, non-condensing

**Custom variation of this model is available with a linear force capability of 12 lbf.*

For more information or to place your order, call Hamilton at 1.800.648.5950 or visit www.hamiltoncompany.com.

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