

PSD/4 Smooth Flow

Specification Sheet (Part/REF # 97709-01)

Product Specifications

Accuracy	±1% @ 100% of stroke
Precision	0.05% @ > 100% stroke
Flow Rate Accuracy	± 5%
Flow Rate Precision	< 5%
Flow Rate Range	26 nL/minute to 53 mL/minute
Fluid Path	Borosilicate glass, PTFE, PFA, CTFE, ETFE, UHMW-PE, or ceramic
Weight	2.7 lbs (1.2 kg)
Power Requirements	24 VDC, 1.5A max
Syringe Drive Mechanism	Stepper motor driven lead screw and optical encoder
Syringe Speed	14 seconds to 8 hours per full stroke
Syringe Stroke Length	30 mm
Syringe Resolution	192,000 steps
Syringe Drive Linear Force Capability	22 lbf. (10 kgf.)
Valve Drive Type	Direct Drive DC stepper motor with 15 degree resolution and optical encoder.
Valve Drive Speed	250 ms per 120 degree rotation
Valve Drive Torque	25 (in oz)
Valve Fittings	1/4-28
Communication Interface	RS-232, RS-485, CAN
Communication Protocol	Terminal and Standard
Baud Rate	9600 or 38400 (RS-232, RS-485) and 100,000 or 125,000 (CAN)

Data Bits	8
Parity	None
Stop Bit	1, Half duplex
Daisy Chain Length	Up to 16 syringe pumps or valve positioners
Operating Temp High	40 °C (105 °F)
Operating Temp Low	15 °C (60 °F)
Operating Humidity	20% to 95%, non-condensing
Storage Temp High	65 °C (150 °F)
Storage Temp Low	-20 °C (-4 °F)
Storage Humidity	20% to 95%, non-condensing
RoHS Compliant	Yes

Specifications are subject to change without notice

Spec. Version B

<https://www.hamiltoncompany.com/oem/oem/97709-01>