

Syringe style with inert wetted materials for micro-fluidic handling and dispensing.

Available with 5k and 20k full stroke resolutions

Available with full dispense volumes, and a solenoid valve option.

Stepper motor and lead screw driven syringe pump

Integrated home position pump sensor at full dispense position

User friendly DB9 electrical connection interface



Technical data

Environmental

Operating temperature

32°F to 131°F (0°C to 55°C)
[with valve 32°F to 122°F (0° to 50°C)]

Operating humidity

5 to 95% RH, non-condensing at 131°F (55°C)

Storage temperature

-13°F to 185°F (-25°C to 85°C)

WEEE & RoHS compliant

Chemical

Wetted Materials

PEI, PTFE, Borosilicate

Additional Wetted Materials (w/ valve option)

EPDM, PEEK
(Alternative Wetted Materials available upon request)

Mechanical

Operation in any orientation

Mounting Configuration (see Figure 1)

.25-28 UNF – 2B Ports

Motor

1.8 Degree Full Step

Resolution

5,000 or 20,000 Half Steps

Pressure**

VAC to 100 psig
(50psig w/ valve option)

Full Volume Dispense

50ul to 1.0mL

Valve Type Option

3 Port / 2 way Solenoid Valve

1/10 Stroke Dispenses

Precision: 0.5% to 1% CV

Accuracy: 0.5% to 1% CV

Electrical Interface

DB9 Female Connector (see Figure 2)

Bipolar Solenoid (24v)

Optical Sensor (OPB390)

Nema 17 Stepper Motor (4 lead)

Physical properties

Height: 2.61

Width: 1.63"

Length: 6.54" (with valve 8.43")

Weight: up to 0.6 kg.

Full Dispense Volume	Resolution (Half Step)	Syringe Type With Valve & PEI Manifold	Syringe Type No Valve & PEI Manifold	P/N Full Dispense Volume (Replacement Syringe Cartridge Assembly)
50 µL	5K	-	56700	56750
50 µL	20K	-	56702	56750
100 µL	5K	56706	56703	56751
100 µL	20K	56708	56705	56751
250 µL	5K	56712	56709	56752
250 µL	20K	56714	56711	56752
500 µL	5K	56718	56715	56753
500 µL	20K	56720	56717	56753
1.0 mL	5K	56724	56721	56754
1.0 mL	20K	56726	56723	56754

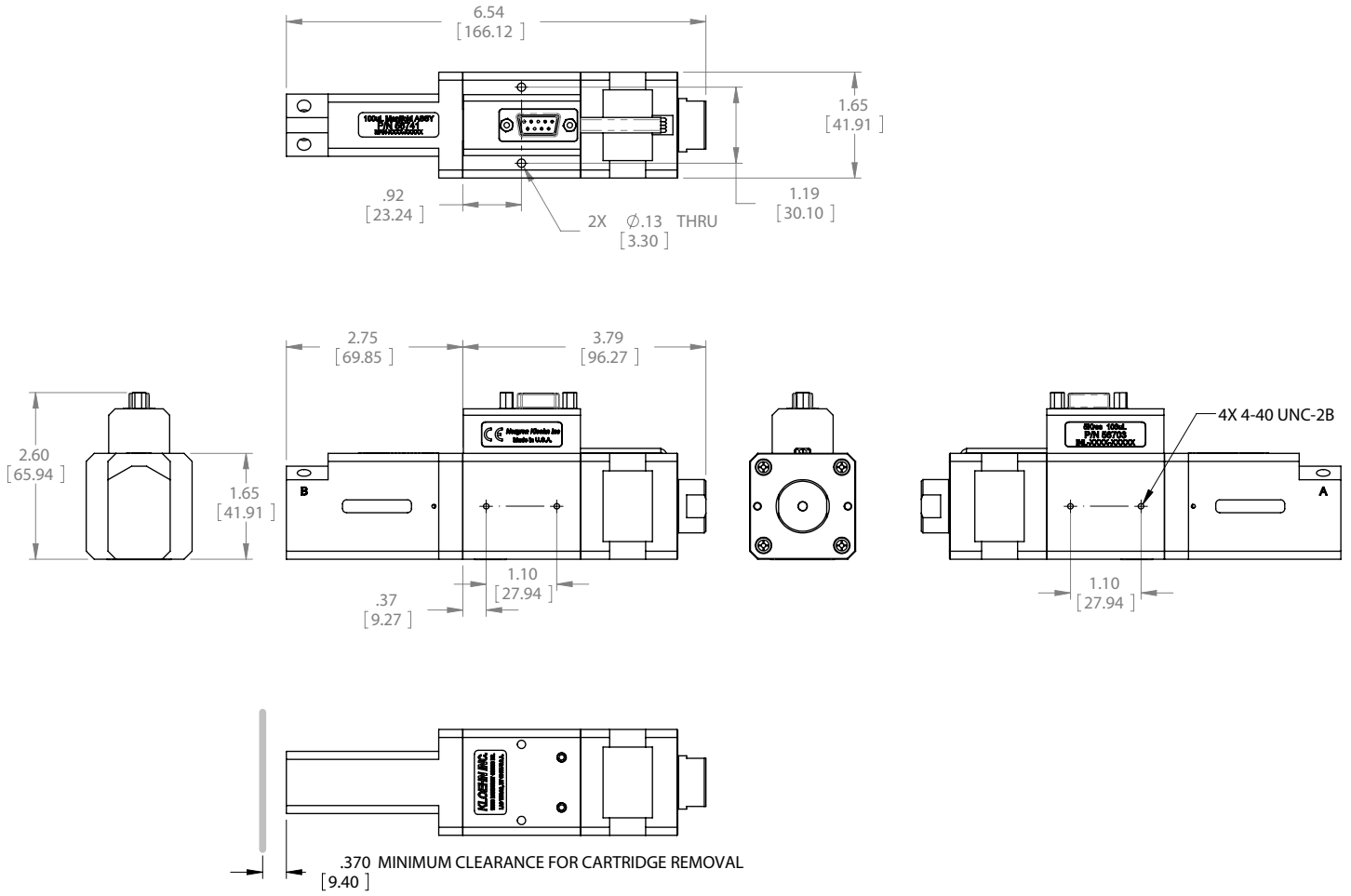
NOTES

* Standard valve specifications may be adjusted to desired operating parameters upon request (special).

** Vacuum pressure: -25" Hg maximum at 2750 ft elevation (1 psia max).

***Mounting hardware is not supplied with standard 2-way Clamp Mount Design. Recommend 2-56 UNC-2B or M2 x0.4mm Recommended 35 micron filtration

Dimensions in (mm)



Ancillary items:
Operator's Manual P/N 21265; and FAQ