RYPT SPECIFICATION SHEET: HEATED SMARTPUMP

The Heated SmartPump[™] is a positive pressure pump with a patented high-precision computer actuated valve coupled with a patented precision nozzle. The Heated SmartPump[™] can reach temperatures up to 90° C (194° F). SmartPump[™] technology was developed to produce flow rates that can be more precisely controlled than any other high-speed dispensing pump of its kind featuring discrete volumetric control down to 100 picoliters. By maintaining constant material pressure and running a customizable computercontrolled valve open and close routine, the SmartPump[™] can generate precise starts and stops, maintain a consistent material flow rate, and handle an extreme range of material viscosities.

SIZE:

H219.4 x W 19.8 x D 31.5 MM (H 8.64 x W 0.78 x D 1.24 IN)

WEIGHT:

0.50 KG (1.0 LB)

MATERIAL INLET:

10-32

AIR PRESSURE: 0-1000 KPA

(0-150psi)

VALVE RESOLUTION: 0.1 µM

TEMPERATURE RANGE: 23°C-90 °C (73°F - 194°F)

> **DEAD VOLUME:** 0.2315 ML

VISCOSITY RANGE: 0.001-1000 PA·S (1-1,000,000 CPS)

FEATURES:

- TIGHT VOLUMETRIC CONTROL AS LOW AS 100 PL RESPECTIVELY
 - REDUCED LINE WIDTHS (AS SMALL AS 20µM)
 - BROAD MATERIAL COMPATIBILITY, INCLUDING HIGH-VISCOSITY MATERIALS
 - PRECISE STARTS AND STOPS WITH NO MATERIAL TAILING
 - CUSTOMIZABLE ACTUATION ROUTINES PER MATERIAL
 - CAN REACH TEMPERATURES UP TO 90° C (194° F)

STANDARD CERAMIC NTIP SIZE CHART

(Contact us for larger or custom sizes)

NTIP PART#	I.D. (μM)	O.D. (µм)
900-4000-014	10	25
900-4000-015	15	25
900-4000-002	25	50
900-4000-003	50	75
900-4000-004	50	100
900-4000-005	75	125
900-4000-006	100	150
900-4000-007	125	175

WETTED PARTS MATERIALS:

316/316L, VITON, FLUOROELASTOMER, BUNA N, POLYPROPYLENE, ZIRCONIA, **ALUMINA, TITANIUM** NITRIDE, **TUNGSTEN CARBIDE.** (DEPENDING ON MATERIAL **BEING DISPENSED AND** COMPATIBILITIES)