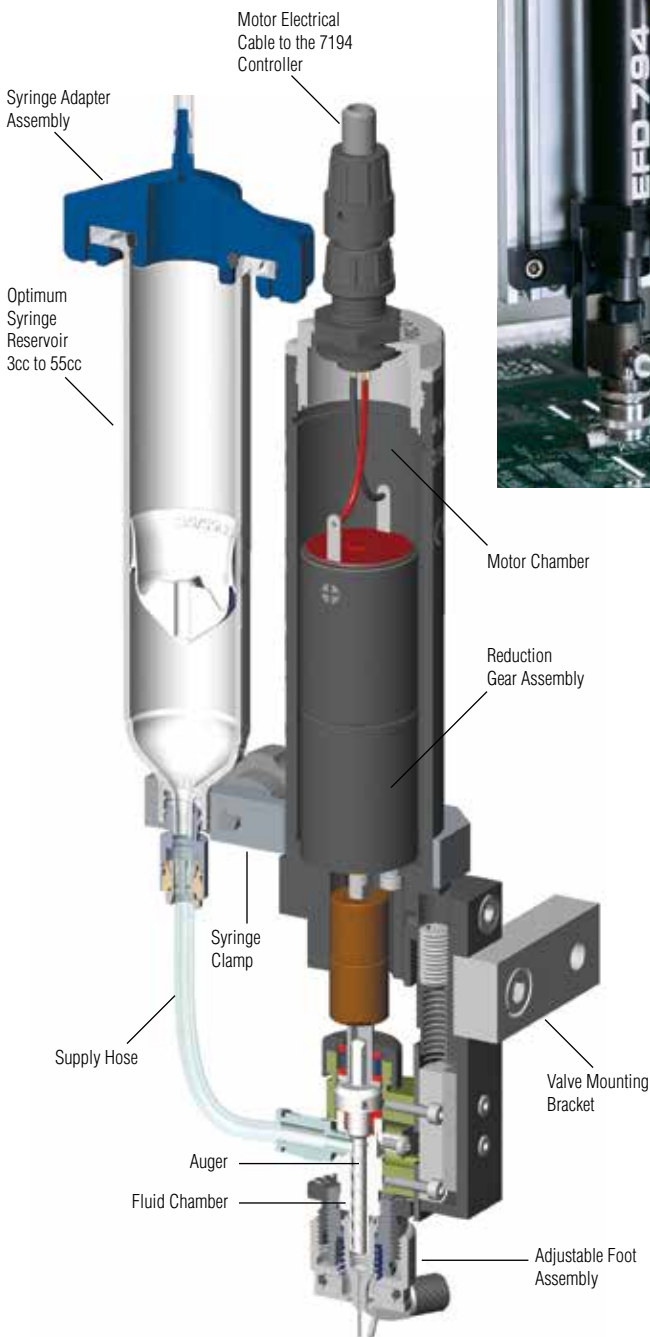


794 Auger Valve

Auger valve system for precise, consistent fluid application



The 794 Series auger valve system is designed to make precise, repeatable deposits of solder paste. By integrating screw feed technology with precise control of dispense time, syringe pressure and auger speed, the 794 Series system ensures consistent deposits without damage to the metal alloy particles in the solder paste.

794 Series Auger Valves

The 794 Series auger valves are designed for use with ValveMate™ 7194 controllers and EFD's automated dispensing systems. During operation, air pressure applied to the syringe of solder moves paste into the path of the auger. As the auger rotates, solder paste moves along the threads and out the dispensing tip.

The VM7194 controller regulates feed pressure so that there is enough pressure to keep the valve primed with solder without forcing it past the auger, and controls dispense time and auger speed.

Features and Benefits

- Accurate, consistent output
- Adjustable flow rate
- I/O interface
- Adjustable auger speed
- 8 pitch or 16 pitch auger
- Two motor-styles – brush or brushless
- Low-maintenance design
- Fast, tool-free latch release of wetted parts
- Sliding head/footed tip components for surface irregularities and to maintain consistent dispense gap height.
- Fixed head version for lines and stripes



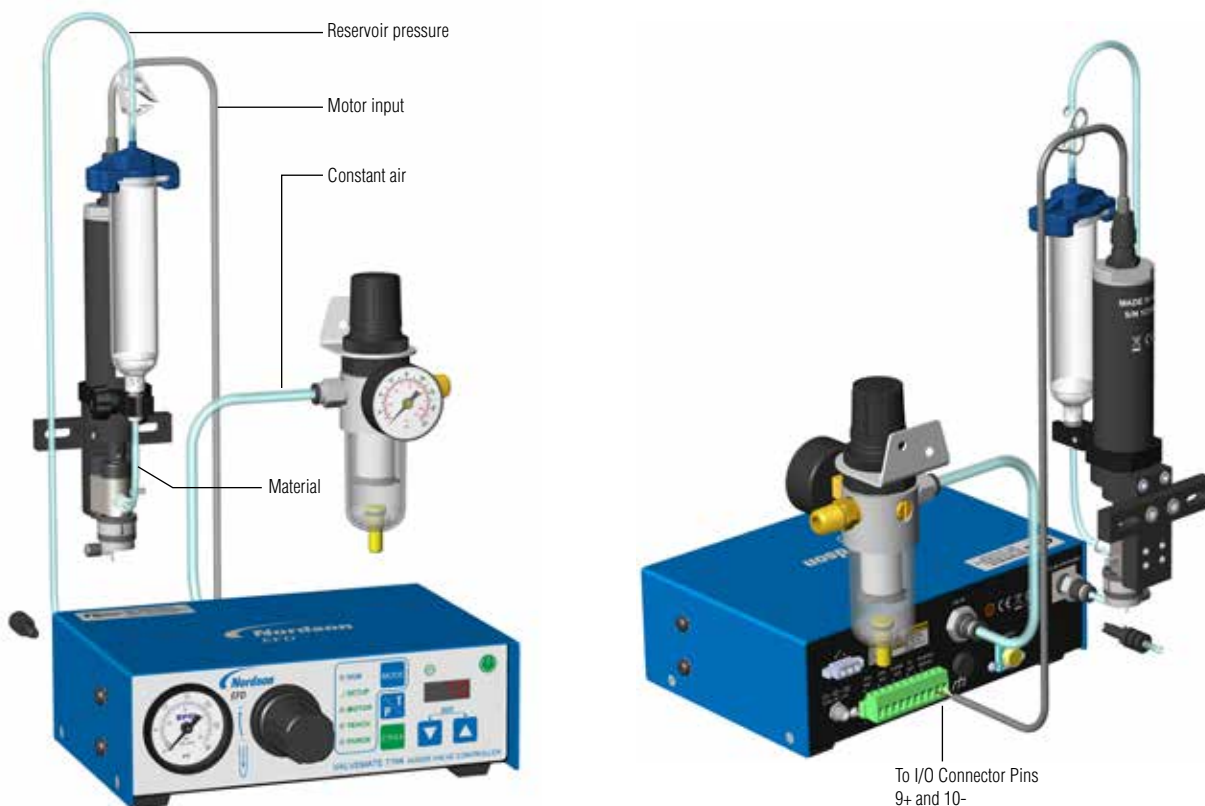
more info

794 Auger Valve Specifications

Item	Product
Size	237.4 mm length x 31.7 mm diameter (9.35" x 1.25")
Weight	544 grams (19.2 oz)
Fluid chamber	Type 440C hardened stainless steel
Auger	Type 440C hardened stainless steel
"U" cup	Filled PTFE, spring energized
Liquid feed fitting	Type 304SS #10-32x5/32" (push-in optional: polypro)
Auger speed	250-400 RPM based on voltage input
Auger pitch	8 and 16 pitch auger
Input Voltage	12-24 VDC (<10% ripple)
Input Air	0-30 psi (0-2.07 bar) clean and dry
Maximum Acceleration	2g

All stainless steel parts are passivated.

Part Number	Description
7029743	794 auger valve: 8 pitch, brushless motor, sliding head, and footed tip
7029742	794 auger valve: 8 pitch, brushless motor, and fixed head
7029744	794 auger valve: 16 pitch, brushless motor, and sliding head
7029463	794 auger valve: 16 pitch, brushless motor, and fixed head
7021916	794 auger valve: 8 pitch, brush motor, sliding head, and footed tip
7029745	794 auger valve: 8 pitch, brush motor, and fixed head
7021917	794 auger valve: 16 pitch, brush motor, sliding head, and footed tip
7029746	794 auger valve: 16 pitch, brush motor, and fixed head



794 Auger Valve System

The 794 Series auger valves are available in brush and brushless motor configurations. Either configuration can be used with EFD's automated dispensing systems such as the PRO Series, EV Series, and E Series.

ValveMate 7194 Controller

The ValveMate 7194 controller series regulates solder feed pressure, dispense time, and auger speed. It provides motor startup acceleration limits and maximum current overload protection for extended motor life. The precision air pressure regulator ensures that consistent pressure is applied to the material in the syringe barrel.

- Easy deposit size control
- Motor voltage range of 10-24 VDC
- Digital time, pressure, voltage display
- Motor overload/fault detection

Automated Dispensing Systems

Nordson EFD offers a wide range of automated systems that are fully compatible with the 794 auger valve. Our automated systems offer consistent, accurate, and repeatable performance, making even the most complex dispensing applications easy. Get simplified setup and programming plus optimized dispensing results from features such as laser height sensing and fully integrated CCD cameras, or specify inline systems designed for larger products.

Custom Solder Paste

Learn more about EFD dispense paste, print paste, flux, thermal compounds, and solder mask, including specialized formulations. We are a dispense flux technology leader and one-stop shop for solder, dispensers, valves, and automation.

Contact EFD for details: info@nordsonefd.com

Dispense Tips

Tip selection is critical to achieve optimum valve performance. In general, use the shortest and least restrictive tip possible to provide the best paste flow.

794 Series valves are packaged with a dispensing tip kit for maximum fluid control. The kit includes SmoothFlow™ tapered tips in sizes from 14 to 22 gauge and 6.35 mm (1/4") precision stainless steel tips in sizes from 14 to 30 gauge, and tip caps.



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