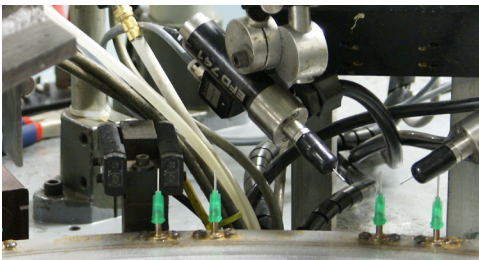


# 741V Series Valves with BackPack Valve Actuator

Achieve valve actuation



Achieve valve actuation speeds as fast as 5 to 6 ms by adding the BackPack valve actuator to your Nordson EFD precision dispense valve.



Reduce the possibility of shot size variation due to fluctuating plant air supply or different line lengths.

The 741V Series needle valve applies low-viscosity fluids, such as silicone oils, solvents and UV-cure adhesives, in accurate, repeatable amounts. Because the stainless steel needle seats in the tip adapter, there is virtually no dead fluid volume between shots.

The BackPack™ valve actuator mounted on the actuating air cylinder maintains constant pressure at the actuating air inlet for faster response time without the risk of process variations due to a fluctuating plant air supply or different air line lengths. In addition, the BackPack actuator utilizes advanced miniature solenoid technology that makes it possible to achieve valve actuation speeds as short as 5–6 milliseconds, and cycle rates that exceed 60–80 Hz.

The BackPack actuator is made of lightweight materials for easy end-of-arm installation, and features a compact, low-profile design that facilitates center-to-center mounting. It is available preinstalled on new valves, and can also be ordered separately to retrofit existing valves.

## Features

- High-speed cycle capability – cycle rate exceeds 60–80 Hz
- Actuation speed as low as 5–6 milliseconds
- State-of-the-art, fast-acting miniature solenoid technology
- Low-profile, compact design
- Lightweight for easy end-of-arm installation

## Benefits

- Smaller deposit size capability due to faster valve actuation
- Minimizes process variation for better dot-to-dot consistency
- High-speed cycling can create dot-to-dot “stitching” that flows together to form continuous lines

Part #	Item	Description
7015584	741V-SS-BP valve with BackPack actuator	Air cylinder and fluid body is passivated 303 stainless steel. Includes fluid inlet fittings and BackPack valve actuator.
7361396	BackPack actuator only	The BackPack valve actuator is available pre-installed on new 741V Series valves, or can be ordered separately for retrofit onto existing 741V Series valves.



more info



## Specifications

Item	Specification
Size	22.20D x 26.7H x 24.10W mm (0.874D x 1.05H x 0.95W")
Weight	BackPack only: 52.635 g (1.85 oz) 741V-SS-BP: 370.1 g (13.05 oz)
Actuating air pressure required	4.8–6.2 bar (70–90 psi)
Electrical input	24 VDC, 4 W
Minimum actuation time	5 ms
Maximum actuation time	Continuous ON
Cycling frequency	60–80 Hz
Housing	Anodized aluminum
Mounting bolt	303 stainless steel
O-rings	Buna-N

## Needle Valve Systems

The complete system includes the 741V Series valve, ValveMate™ 8000 controller, fluid reservoir and dispense tip.

Expert technical assistance and high quality standards ensure productive, trouble-free performance. EFD offers a full line of reliable dispensing systems to meet your specific application requirements.

### 741V Series Valves with Backpack Valve Actuator

The 741V Series valves are used with ValveMate 8000 controllers or EFD automated dispensing systems for precise, repeatable outputs of low to medium viscosity fluids.

The 741V Series wetted components are 303 stainless steel and PTFE. Each valve can be calibrated with the stroke reference knob for process control.

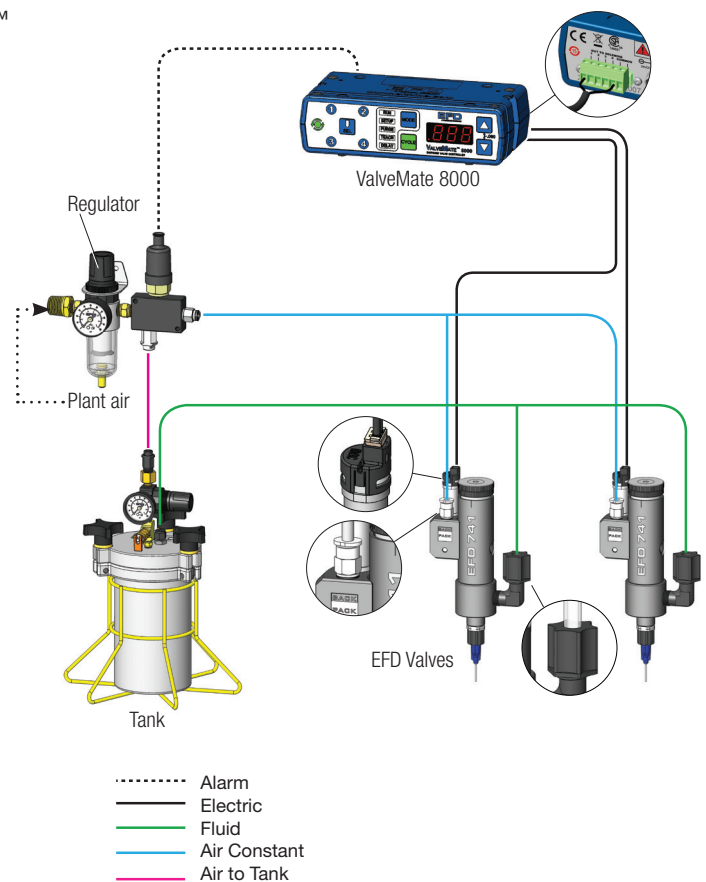
The amount dispensed depends on valve open time, fluid pressure, fluid viscosity, flow adjustment and tip size.

### ValveMate 8000 Controller

Valve open time is the primary control of deposit size. The ValveMate controller puts push-button adjustment of valve open time where it needs to be — at the valve.

- Multi-valve control—up to (4) valves
- Partner to Programmable Logic Controller (PLC)
- Easy deposit size control
- Increased production output
- End user convenience
- Maximum machine efficiency

### Complete System



## Select Your Controller

See the Valve Selection Guide for the controllers compatible with this valve — [www.nordsonefd.com/ValveGuide](http://www.nordsonefd.com/ValveGuide).

## Automated Dispensing Systems

Nordson EFD automated dispensing systems deliver market-leading repeatability and accuracy in fluid placement and positioning. Specialized dispensing software simplifies setup and programming. Optimize dispensing results with features such as laser height sensing and smart vision CCD cameras.

## Fluid Reservoirs

Nordson EFD reservoirs are supplied with precision, constant-bleed regulators to ensure consistent fluid pressure to the valve.

Tank reservoirs are available in 1.0, 5.0 and 19.0 liter capacities. Optimum® Retainer Systems and Cartridges are available from 2.5 to 32 ounces (75cc to 950cc).

Note: The 1.0 liter tank accepts a 1 lb bottle of cyanoacrylate.

## Dispense Tips

Tip selection is critical to achieve optimum valve performance. 741V Series valves are packaged with an Optimum dispensing tip kit for maximum fluid control. The kit includes smooth-flow tapered tips in sizes from 14 to 25 gauge, precision stainless steel tips in sizes from 14 to 21 gauge, and tip caps.

## Request a Process Evaluation

Contact Nordson EFD to configure a precision dispense system that meets your specific needs, with:

- A complimentary process evaluation by experienced fluid dispensing experts
- Samples processed for customer evaluation and approval prior to purchase



The BackPack actuator is a compact, fast-acting solenoid.



For Nordson EFD sales and service in over 40 countries, contact Nordson EFD or go to [www.nordsonefd.com](http://www.nordsonefd.com).

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