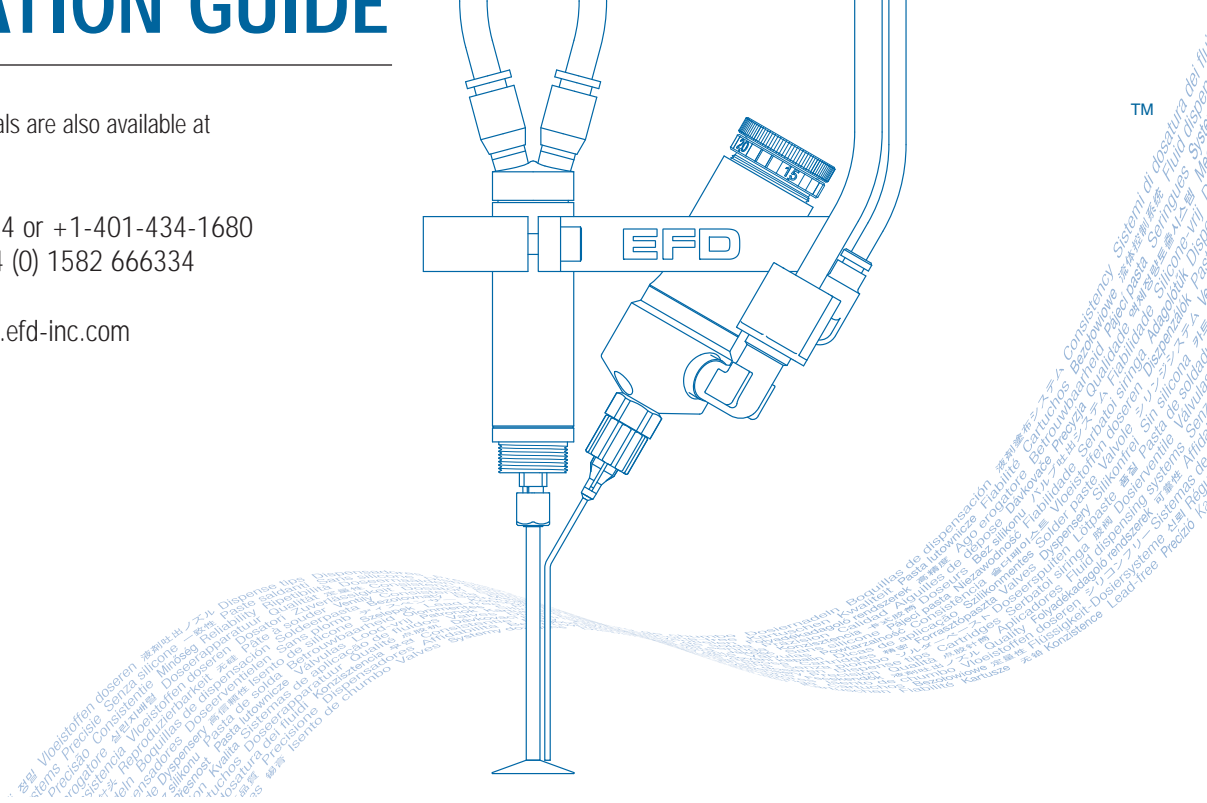
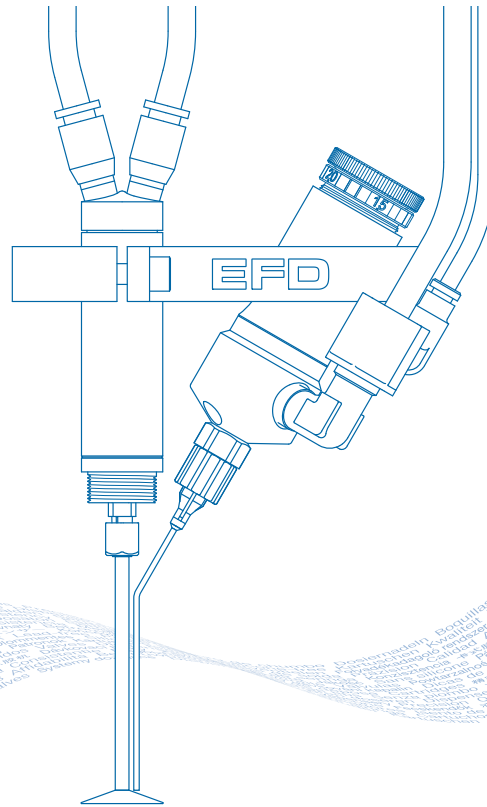


# 7860C-RS Spinner system INSTALLATION GUIDE

Electronic pdf files of EFD<sup>®</sup> manuals are also available at [www.efd-inc.com/manuals.html](http://www.efd-inc.com/manuals.html).

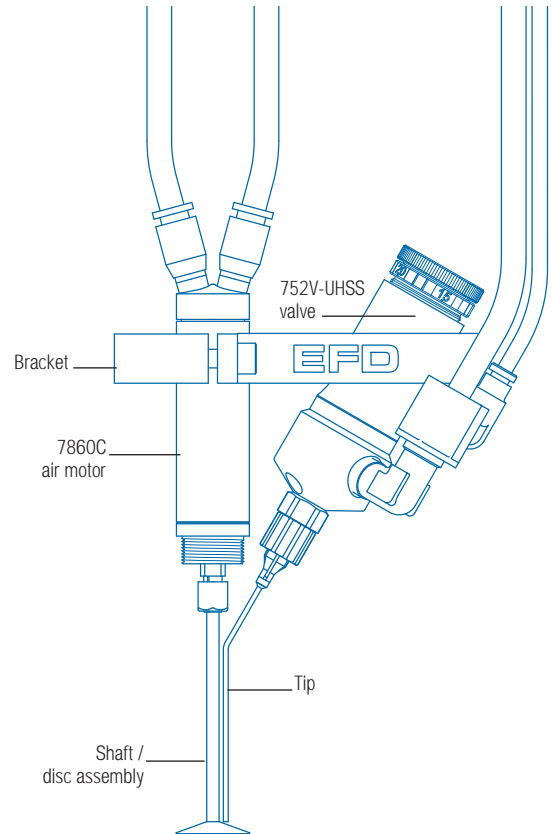
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## Introduction

The 7860C-RS Radial Spinner System is a precision, air-actuated spinner device that produces a narrow radial output band ideal for coating the interior walls of cylindrical shaped parts. Air pressure is released to the collected air motor to spin the radial disc and shaft assembly. During this radial spin cycle, fluid is dispensed onto the spinning disc causing it to be distributed in a narrow band-like pattern onto the side wall.

The spinner disc and shaft assembly has a shaft length of 70 mm (2.75") with disc sizes ranging from 9 mm (.354"), 12 mm (.473"), 15 mm (.590"), and 19 mm (.745"). The Radial Spinner System is easy to use and will operate for many millions of cycles without maintenance.



## Safety

	<b>WARNING</b>
	Entanglement Hazard. Rotating parts. Do NOT operate with exposed long hair, jewelry or loose clothing. Disconnect air supply before servicing.

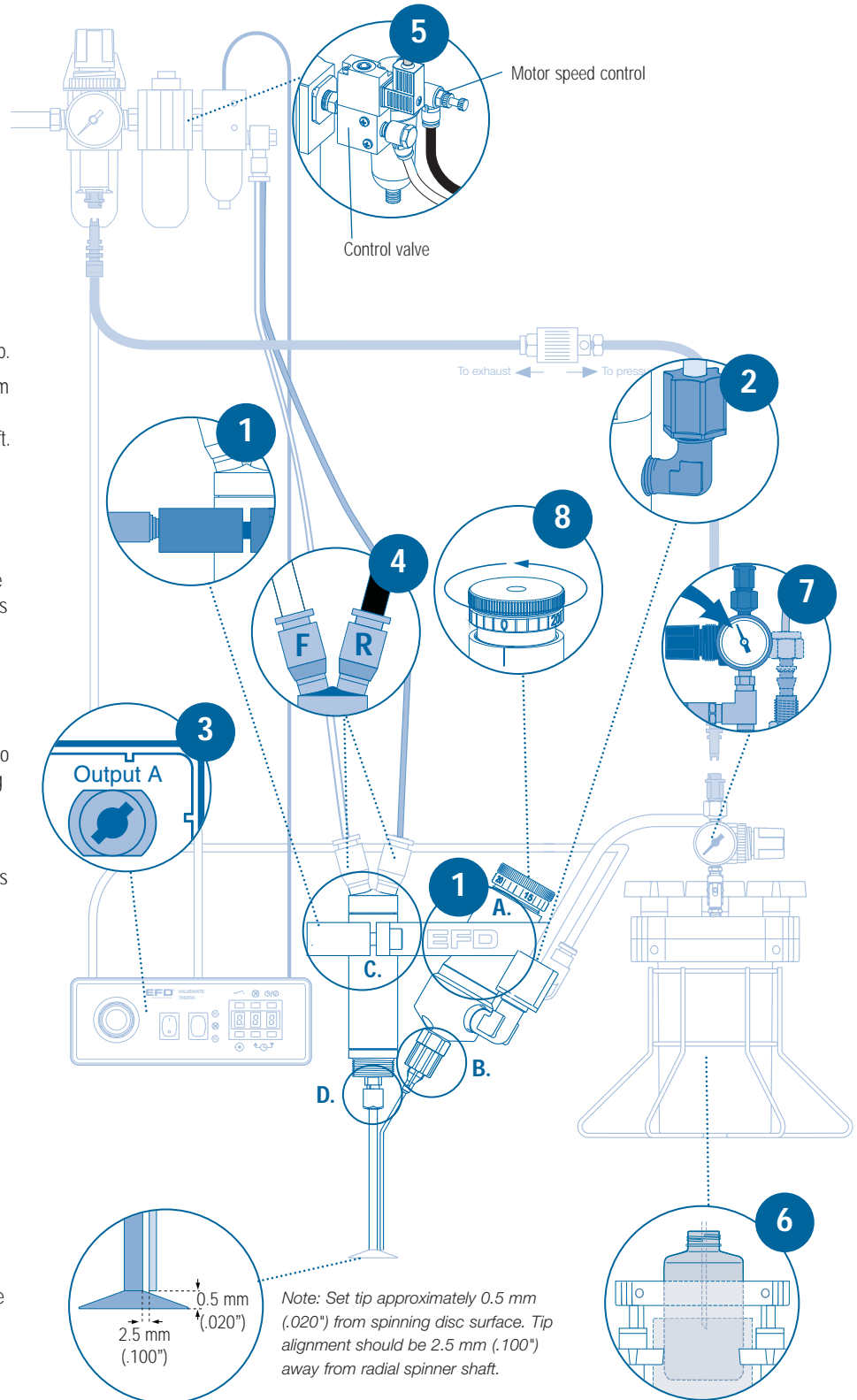
	<b>CAUTION</b>
	Splash Hazard. Wear face and clothing protection.

# Installation

Prior to installing this system, please read the associated reservoir and ValveMate™ 7060RA controller instructions to become familiar with the operation of all components of the Radial Spinner System.

Air Preparation Assembly: See pages 6 – 7, ValveMate 7060RA Controller Operating Manual.

1. Mount the Radial Spinner Bracket using the rod provided or bolt onto appropriate mounting fixture. Valve / Motor / Spinner installation sequence:
  - A. Slide 752V Series valve up into bracket opening and bottom out at actuating air fitting. Lightly secure in place.
  - B. Install special bent tip into rotating luer lock adapter. Tip end is in vertical position.
  - C. Slide air motor into bracket opening. Make sure motor collet does not contact at level of dispense tip.
  - D. Insert shaft into collet. Set tip approximately 0.5 mm (0.020") from spinning disc surface. Tip alignment should be 2.5 mm (.100") away radial spinner shaft.
2. Connect the fluid-feed hose to the reservoir outlet and the valve-inlet port using the appropriate fittings (supplied).
3. Connect the 4 mm diameter air hose from the valve to the 7060RA controller. The **white** connector goes to "A" port. Note: Port "B" is not used for radial spinner installations. make sure "Atomizing Air" is OFF and set to 0 psi.
4. Connect the white and black 6 mm diameter air hoses to the air motor assembly. **White** connects to the "F" fitting, and **Black** connects to the "R" fitting (actual markings on air motor).
5. Then, connect the white and black 6 mm diameter hoses to the air preparation assembly. **White** connects to the control valve. **Black** connects to the motor speed control.
6. Fill the fluid reservoir. After filling, secure the cover and connect the reservoir air pressure regulator to the air tee using the flexible air line (supplied). Attach the male quick-connect on the air line to the reservoir regulator and then attach the white quick-connect to the air tee. To pressurize the system, slide the shut-off valve on the air line toward the fluid reservoir.
7. Set the reservoir pressure regulator according to fluid viscosity, to low for thin fluids 1 to 3 psi (0.07 to 0.2 bar) and higher for thicker fluids.
8. Set the 752V-UHSS valve (or other appropriate valve model) stroke control to achieve a desired flow rate onto the spinning disc. Set flow to approximately one drop per second.
9. Adjust air motor RPM using speed control knob. Turn speed control clockwise to reduce RPM and counter-clockwise to increase RPM.

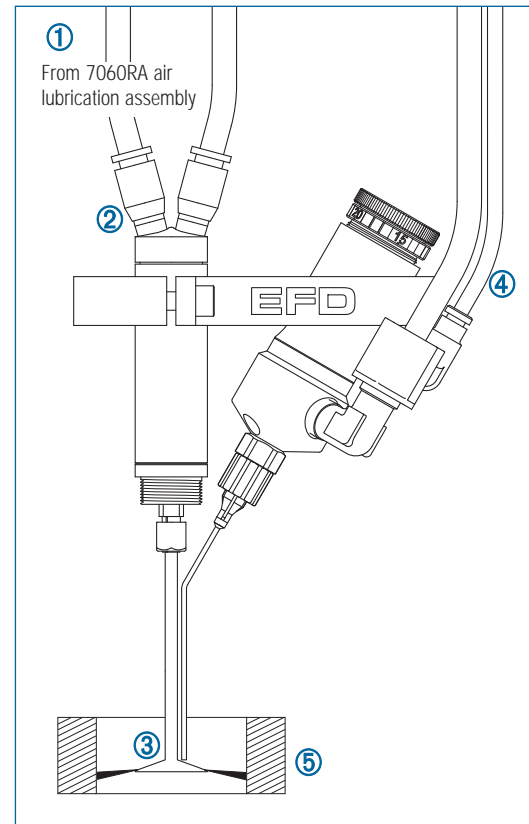


Note: Refer to Valve Operating Manual for installation, operating and maintenance instructions for the valve.

# How the Radial Spinner System Operates

Upon initiation of the 7060RA Radial System Controller ①, air pressure is released to the air motor assembly ② to begin spinning the radial disc assembly ③. Immediately following, a timed pulse of actuating air is released to the dispense valve ④, to apply fluid onto the spinning disc. The spinning disc causes the radial output to sweep around to apply an even band of fluid to the inner circumference of the cylinder ⑤.

When the timed actuating air from the Valvemate 7060RA radial controller shuts off, the dispense valve closes, stopping fluid flow. An adjustable delay after the dispense cycle ensures that all fluid is dispersed after the valve closes, ensuring coating consistency from cycle to cycle. Refer to page 7 of the Valvemate 7060RA manual for instruction on increasing / decreasing delay feature.



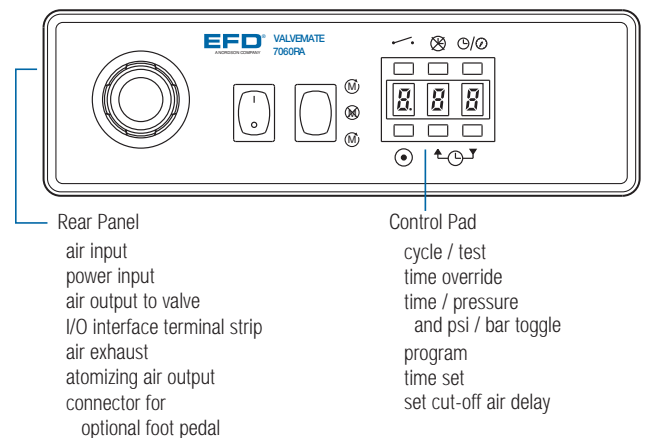
# ValveMate 7060RA Radial System Concept

The ValveMate 7060RA Radial System Controller provides easy adjustment of valve output for maximum end-user convenience and efficiency. Valve open time is the primary control of deposit size. The 7060RA puts push-button adjustment of valve open-time where it needs to be – at the valve and radial spinner assembly.

The controller incorporates unique microprocessor circuitry to provide exact time control and interact with the host computer.

Deposit size can be programmed by pressing the PROGRAM button in the SETUP mode. This affords an easy starting point for selecting deposit size.

Note: The EFD Ultra® TT 325 and Ultra 525 XYZ automated dispensing systems have integrated ValveMate controllers for operating all EFD dispense valves.



# Specifications

## General

Size: Air Motor: 10.5 cm (4.13")

Bracket: 4.7 cm x 9.5 cm (1.85" x 3.75")

Weight: Air Motor: 90.4 grams (3.2 oz)

Bracket: 94.5 grams (3.3 oz)

Air consumption: <3.2 SCFM at 80 psi (5.4 bar)

Air motor housing: Black anodized aluminum

Shaft: Tool steel

Disc: Passivated type 303 stainless steel

Air pressure required:

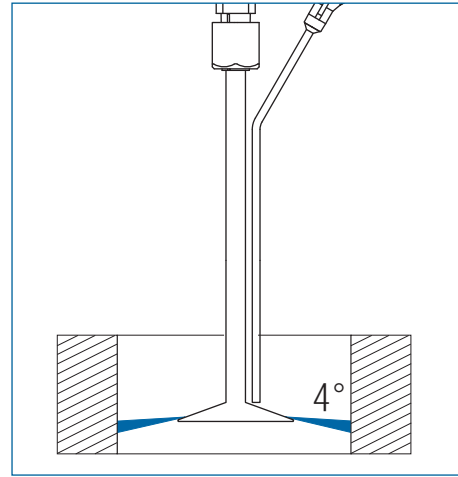
7060RA controller: 70 psi (4.8 bar) minimum

7860C-RS radial spinner: Variable speed control

Mounting: 5/16-24 and 1/4-20

# Radial Spinner Coverage

Radial Spinner distance to inside diameter of cylinder wall should be 0.5 mm (.020") or more. Choose spinner disc diameter appropriate to cylinder wall I.D.



# Replacement Part Numbers

7860C-RS: Radial spinner motor / bracket assembly

7860C: Radial spinner air motor only

7888: Radial spinner mounting bracket

7884TK: Radial spinner tip kit

7880-9MM: 9 mm (.354") radial spinner / disc

7880-12MM: 12 mm (.473") radial spinner / disc

7880-15MM: 15 mm (.590") radial spinner / disc

7880-19MM: 19 mm (.745") radial spinner / disc

7885-B: 18 ga. tip – 30 degree bend 20/box

7886-B: 21 ga. tip – 30 degree bend 20/box

7887-B: 23 ga. tip – 30 degree bend 20/box



For EFD sales and service in over 30 countries, contact EFD or go to [www.efd-inc.com/contact](http://www.efd-inc.com/contact)

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For consistent dispense valve operation and easy adjustment of valve output, EFD recommends using the ValveMate 7060RA controller on all automatic, semi-automatic and benchtop applications.

The EFD Ultra TT Series positioning systems incorporate dispensing control into the main system.

Contact the EFD Dispense Valve Systems Group for details.