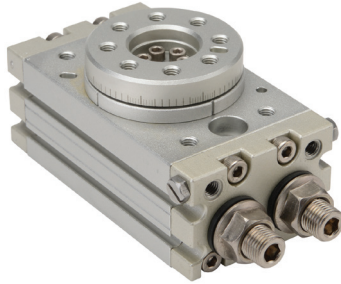




# Rotary Actuator

## Double Acting



J10MD-M

NITRA Pneumatics rotary actuators are an excellent choice for many automation applications. Available in four body sizes with or without shock absorbers. All are double acting and have an adjustable travel range from zero to 190 degrees. Anodized aluminum bodies include integral mounting slots for position switches.

### Features

- Four body sizes (10, 20, 30, 50 lb-in @ 80 psi)
- Anodized aluminum bodies
- Available with rubber bumpers or shock absorbers
- Position switch ready with integral mounting slots
- Zero to 190 degrees adjustable rotation

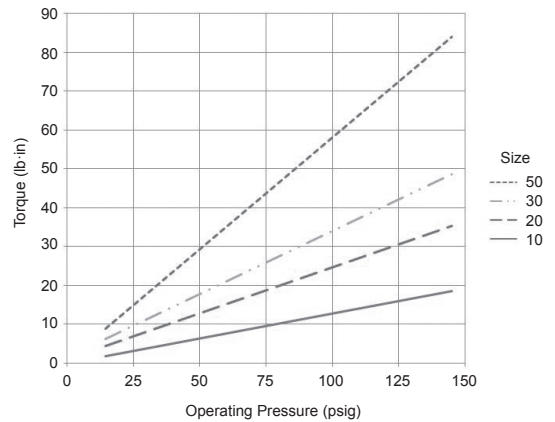


| NITRA Rotary Actuators - Double Acting |                                 |               |                |                |                   |          |          |              |
|--|---------------------------------|---------------|----------------|----------------|-------------------|----------|----------|--------------|
| Part No.                               | Description                     | Action        | Size*          | End Stops      | Body              | Port(s)  | Price    | Weight (lbs) |
| J10MD-M                                | NITRA pneumatic rotary actuator | Double acting | 10             | Rubber bumpers | Anodized aluminum | M5 x 0.8 | \$211.00 | 1.3          |
| J10MD-MA                               |                                 |               |                | Shock Absorber |                   |          | \$259.00 | 1.3          |
| J20MD-M                                |                                 |               | Rubber bumpers | \$241.00       |                   |          | 2.3      |              |
| J20MD-MA                               |                                 |               | Shock Absorber | \$293.00       |                   |          | 2.3      |              |
| J30MD-M                                |                                 |               | Rubber bumpers | \$259.00       |                   | 3.0      |          |              |
| J30MD-MA                               |                                 |               | Shock Absorber | \$315.00       |                   | 3.0      |          |              |
| J50MD-M                                |                                 |               | Rubber bumpers | \$296.00       |                   | 4.9      |          |              |
| J50MD-MA                               |                                 |               | Shock Absorber | \$366.00       |                   | 4.9      |          |              |

\* lb-in torque @ 80 psi

| NITRA Rotary Actuator Specifications |  |                                   |
|--------------------------------------|--|-----------------------------------|
| Fluid                                | Air (clean/dry)  |                                   |
| Action                               | Double rack and pinion (double acting)   |                                   |
| Pressure Range                       | Bolt Adjustment  | 14 to 145 psig (0.97 to 9.99 bar) |
|                                      | Shock Adjustment   | 14 to 87 psig (0.97 to 5.99 bar)  |
| Proof Pressure                       | 175 psig   |                                   |
| Temperature Range                    | 32°F to 140°F (0°C to 60°C)  |                                   |
| Adjustment Angle Range               | 0° to 190° Rotation  |                                   |
| Repeatable Precision                 | Bolt Adjustment  | 0.2°                              |
|                                      | Shock Adjustment   | 0.05°                             |
| Rotation Times (s/90°)               | Bolt Adjustment  | 0.2 - 1.0                         |
|                                      | Shock Adjustment   | 0.2 - 0.7                         |
| Cushion Type                         | Bolt Adjustment  | Rubber Bumper                     |
|                                      | Shock Adjustment   | Shock Absorber                    |
| Port Size                            | M5 x 0.8 (sizes 10 and 20)<br>Rear ports 1/8 NPT / Side ports M5 x 0.8 (sizes 30 and 50) |                                   |
| Sensor Switch Compatibility          | Nitra CPS9C-xx-x   |                                   |
| Includes                             | Magnet   |                                   |
| Approvals                            | None   |                                   |

## Torque Output

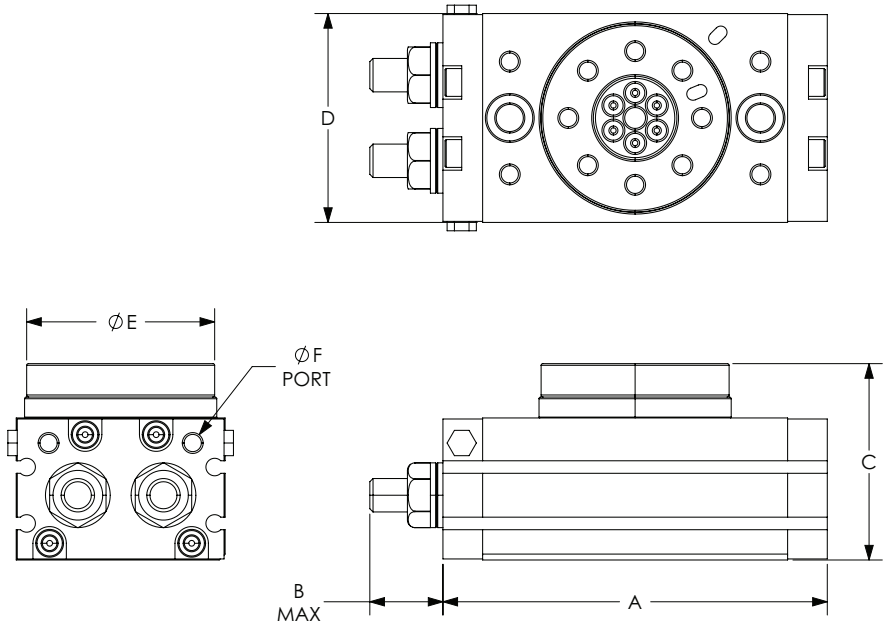




# Rotary Actuator

## Dimensions

mm [inches]



| Rotary Actuator Dimensions |              |             |             |             |             |          |
|----------------------------|--------------|-------------|-------------|-------------|-------------|----------|
| Part #                     | A            | B           | C           | D           | ØE          | ØF       |
| J10MD-M                    | 92.0 [3.62]  | 17.5 [0.69] | 47.0 [1.85] | 50.0 [1.97] | 45.0 [1.77] | M5 x 0.8 |
| J10MD-MA                   | 92.0 [3.62]  | 28.5 [1.12] | 47.0 [1.85] | 50.0 [1.97] | 45.0 [1.77] | M5 x 0.8 |
| J20MD-M                    | 117.0 [4.61] | 26.0 [1.02] | 54.0 [2.13] | 65.0 [2.56] | 60.0 [2.36] | M5 x 0.8 |
| J20MD-MA                   | 117.0 [4.61] | 39.0 [1.54] | 54.0 [2.13] | 65.0 [2.56] | 60.0 [2.36] | M5 x 0.8 |
| J30MD-M                    | 127.0 [5.00] | 25.5 [1.00] | 57.0 [2.24] | 70.0 [2.76] | 65.0 [2.56] | 1/8 NPT  |
| J30MD-MA                   | 127.0 [5.00] | 39.0 [1.54] | 57.0 [2.24] | 70.0 [2.76] | 65.0 [2.56] | 1/8 NPT  |
| J50MD-M                    | 152.0 [5.98] | 31.5 [1.24] | 66.0 [2.60] | 80.0 [3.15] | 75.0 [2.95] | 1/8 NPT  |
| J50MD-MA                   | 152.0 [5.98] | 51.0 [2.01] | 66.0 [2.60] | 80.0 [3.15] | 75.0 [2.95] | 1/8 NPT  |

See our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.

## Accessories



J2030M-SA

| NITRA Rotary Actuator Accessories |   |         |              |
|-----------------------------------|---|---------|--------------|
| Part No.                          | Description   | Price   | Weight (lbs) |
| J10M-SA                           | NITRA shock absorber, for use with J-series size 10 rotary actuators.         | \$26.50 | 0.1          |
| J2030M-SA                         | NITRA shock absorber, for use with J-series sizes 20 and 30 rotary actuators. | \$29.50 | 0.2          |
| J50M-SA                           | NITRA shock absorber, for use with J-series size 50 rotary actuators.         | \$36.00 | 0.2          |