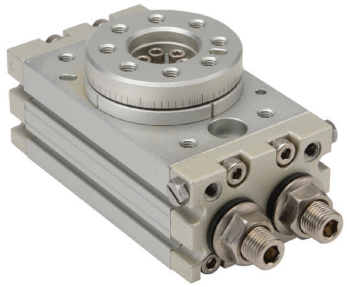
Rotary Actuator

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

2 YEAR WARRANTY

NITRA Rotary Actuators - Double Acting

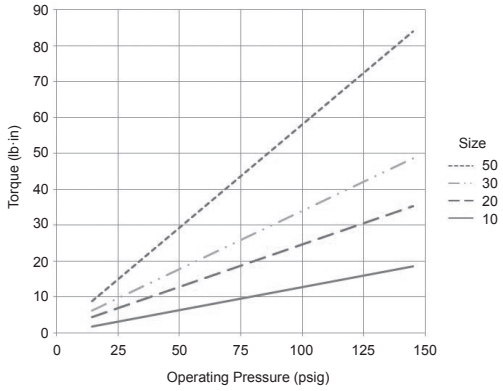
Part No.	Description	Action	Size*	Air Consumption (cc/deg)	End Stops	Body	Port(s)	Price	Weight (lbs)
J10MD-MA	NITRA pneumatic rotary actuator	Double acting	10	0.04	Shock Absorber	Anodized aluminum	M5 x 0.8		1.3
J20MD-M			20	0.08	Rubber bumpers				2.3
J20MD-MA					Shock Absorber				2.3
J30MD-M			30	0.10	Rubber bumpers		1/8in female NPT		3.0
J50MD-MA			50	0.18	Shock Absorber				4.9

** lb•in torque @ 80 psi*

NITRA Rotary Acutuator 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) 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



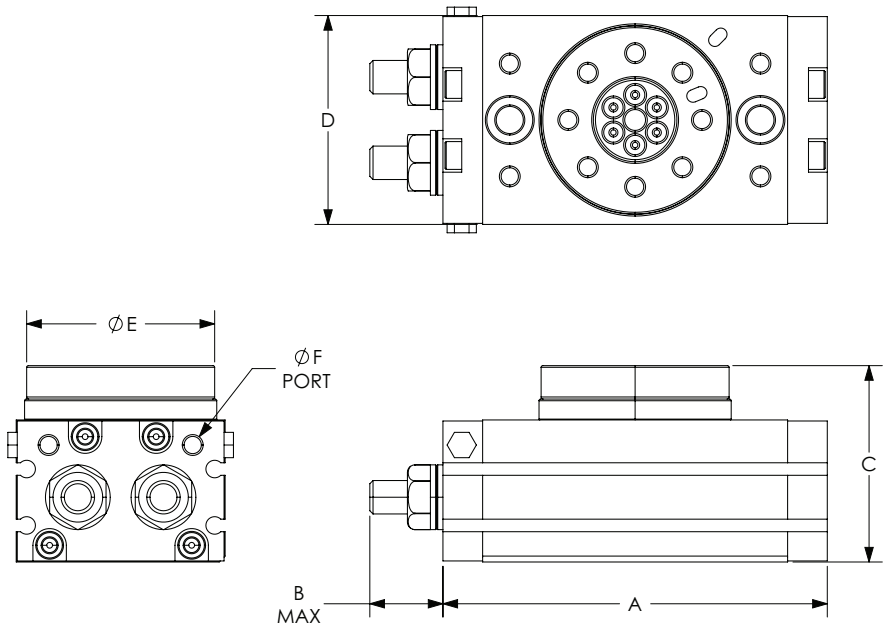
Rotary Loads

"Loading Type (max allowed)"	J10MD-xx	J20MD-xx	J30MD-xx	J50MD-xx
Radial	"18lbs (80N)"	"33.7lbs 150N"	"45lbs (200N)"	"67.4lbs (300N)"
Axial	"18lbs (80N)"	"33.7lbs 150N"	"45lbs (200N)"	"67.4lbs (300N)"
Bending Moment	"22.1in-lbs (2.5Nm)"	"35.4in-lbs (4.0Nm)"	"48.7in-lbs (5.5Nm)"	"88.5in-lbs (10.0Nm)"

Rotary Actuator

Dimensions

mm [inches]



Rotary Actuator Dimensions						
Part #	***A***	***B***	***C***	***D***	***ØE***	***ØF***
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
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 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.		0.1
J2030M-SA	NITRA shock absorber, for use with J-series sizes 20 and 30 rotary actuators.		0.2