

RR MEDIUM-DUTY SERIES

Rotary Actuators | Features and Benefits | How To Order

Features:

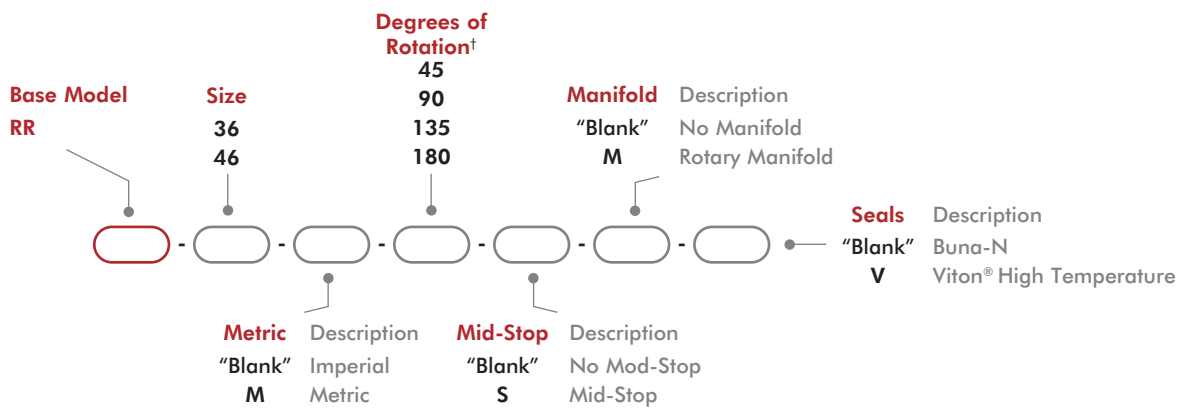
- Low profile, high capacity for tight space applications
- Mount payload directly to flange without additional support
- Preloaded bearings for high repeatability rotary actuation
- Zero backlash and slip fit dowel pins for precision applications
- Built-in adjustable hard-stops and shock absorbers
- Adjustable flow controls
- Optional manifold eliminates twisted airlines
- 3 position rotary with option mid-stop

Applications:

- Precision rotary positioning
- Part orientation
- Load and unload



How To Order



†Consult factory for intermediate degrees of rotation.

Accessories

Sensor Accessories	Model Numbers	Part Number	Qty/Unit
Sensor Mounting Kit (mounts 2 sensors)	All Models	OSMK-024	1
NPN Inductive Sensor with Quick Disconnect*	All Models	OISN-014	1-2
PNP Inductive Sensor with Quick Disconnect*	All Models	OISP-014	1-2
Quick Disconnect 2 Meter Cable Length*	All Models	CABL-010	1-2
Quick Disconnect 5 Meter Cable Length*	All Models	CABL-013	1-2

*Sensor and cable sold separately.

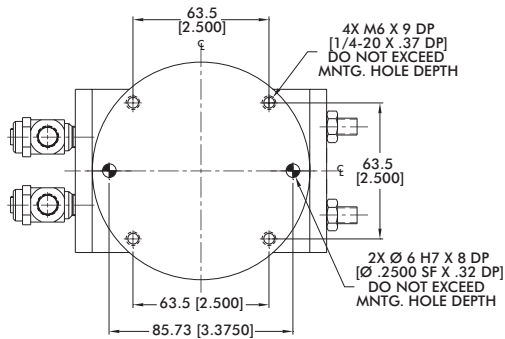
RR MEDIUM-DUTY SERIES

Rotary Actuators | Technical Specifications

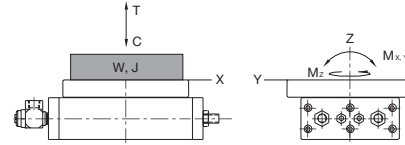
Specifications	Units	36	46
Maximum Payload	kg [lb]	3.6 [8.0]	6.8 [15]
Maximum Payload Inertia	Nm sec ² [in-lbs sec ²]	0.00468 [0.0414]	0.01096 [0.0970]
Maximum Rotation		180°	
Maximum Torque Mid-Stroke @ 100psi/7 bar	Nm [lbs-in]	7.4 [65]	14 [122]
Maximum Torque End-Stroke @ 100psi/7 bar	Nm [lbs-in]	3.7 [32]	7 [61]
Weight (base unit)	kg [lb]	1.3 [2.9]	2.3 [5]
Weight Adder for Mid-Position Stop	kg [lb]	0.18 [0.4]	0.19 [0.42]
Weight Adder for Rotary Manifold	kg [lb]	0.04 [0.1]	0.17 [0.38]
Pressure Range	bar [psi]	3-7 [40-100]	
Ingress Protection Class (IP)		IP55	
Displacement (180°)	cm ³ [in ³]	33.6 [2.05]	63.18 [3.855]
Displacement of Mid-Position Stop	cm ³ [in ³]	19.66 [1.200]	35.95 [2.194]
Temperature Range (Buna-N seals)	°C [°F]	-0°~66° [32°~150°]	
Temperature Range (Viton® seals)			
Actuation Time (180° @ 100psi/7 bar)	sec	0.35	0.41
Actuation Time (90° @ 100psi/7 bar)	sec	0.2	0.36
End-Stop Repeatability		±0.02°	
Mid-Stop Repeatability		±0.5°	
End-Stop Adjustability		60°	
Over Travel (each end)		4°	
Valve required to actuate		4-way, 2-position	
Valve required to actuate Mid-Stop		3-way, 2-position	

RR-36

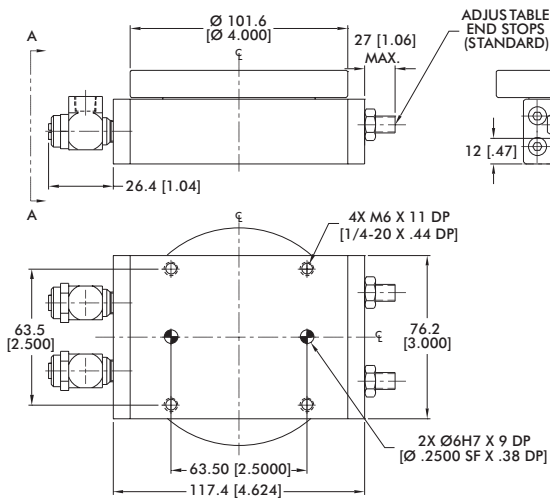
Rotary Actuators | Dimensions and Technical Specifications



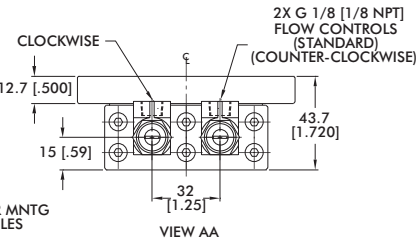
UNIT SHOWN IN 0° POSITION ROTATED FULLY CW



RR-36 Loading information	Static
Maximum Tensile T	2445 N [100 lbs]
Maximum Compressive C	2224 N [500 lbs]
Maximum Moment M_x	34 Nm [300 in-lbs]
Maximum Moment M_y	34 Nm [300 in-lbs]
Maximum Payload W	3.64 kg [8 lbs]
Maximum Inertia J	0.00468 N-m-sec ² [0.0414 in-lbs-sec ²]



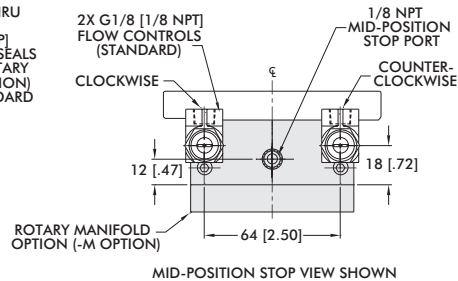
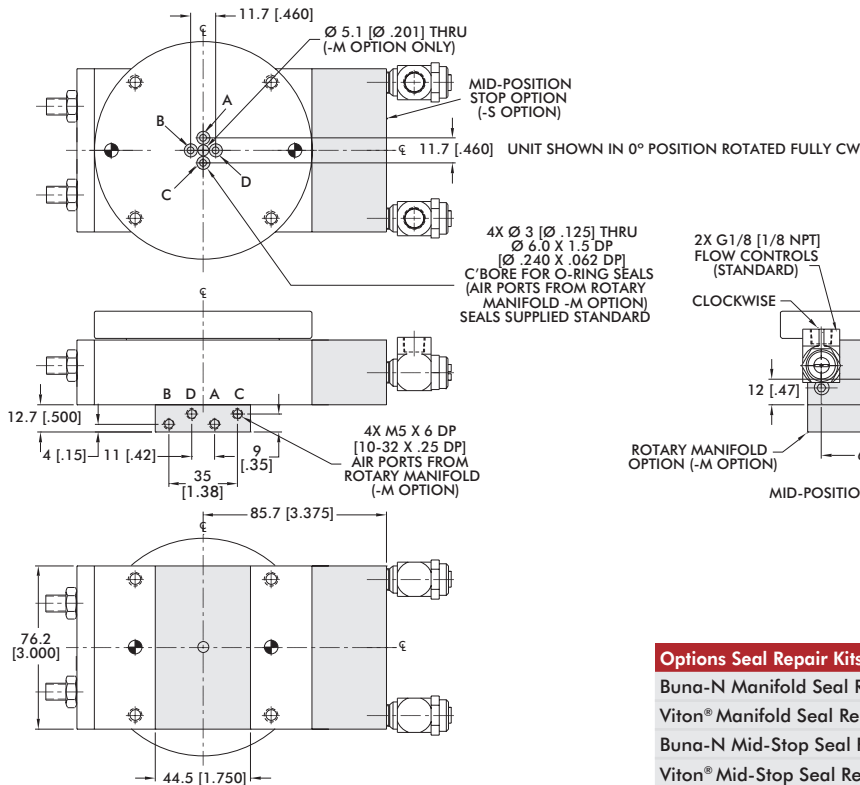
ADJUSTABLE
END STOPS
(STANDARD)



mm [INCH]
THIRD ANGLE
PROJECTION

Base Unit Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-016
Viton® Seal Repair Kit	SLKT-016V

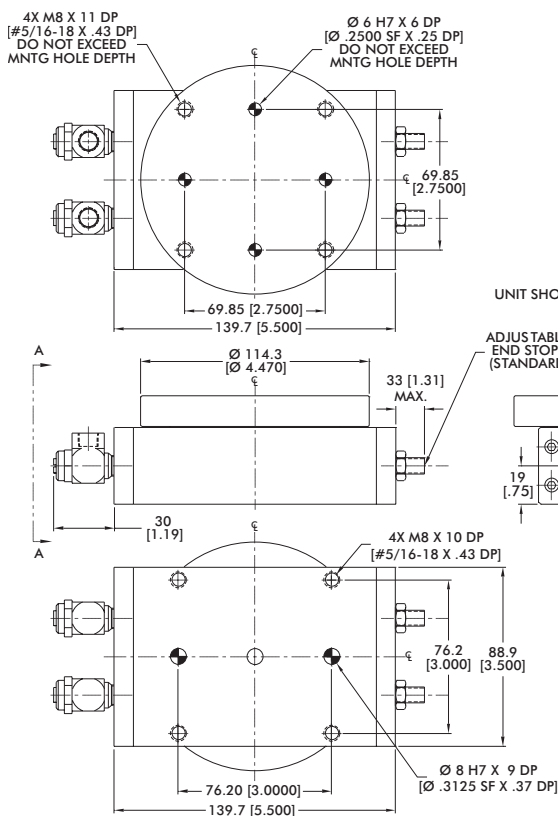
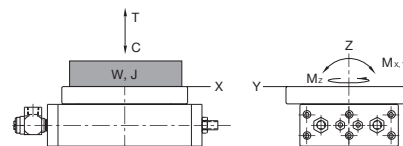
Options Dimensions



mm [INCH]
THIRD ANGLE
PROJECTION

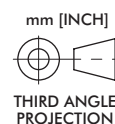
Options Seal Repair Kits	Order #
Buna-N Manifold Seal Repair Kit	-M SLKT-061
Viton® Manifold Seal Repair Kit	-M-V SLKT-061V
Buna-N Mid-Stop Seal Repair Kit	-S SLKT-062
Viton® Mid-Stop Seal Repair Kit	-S-V SLKT-062V

Rotary Actuators | Dimensions and Technical Specifications



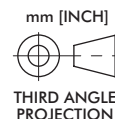
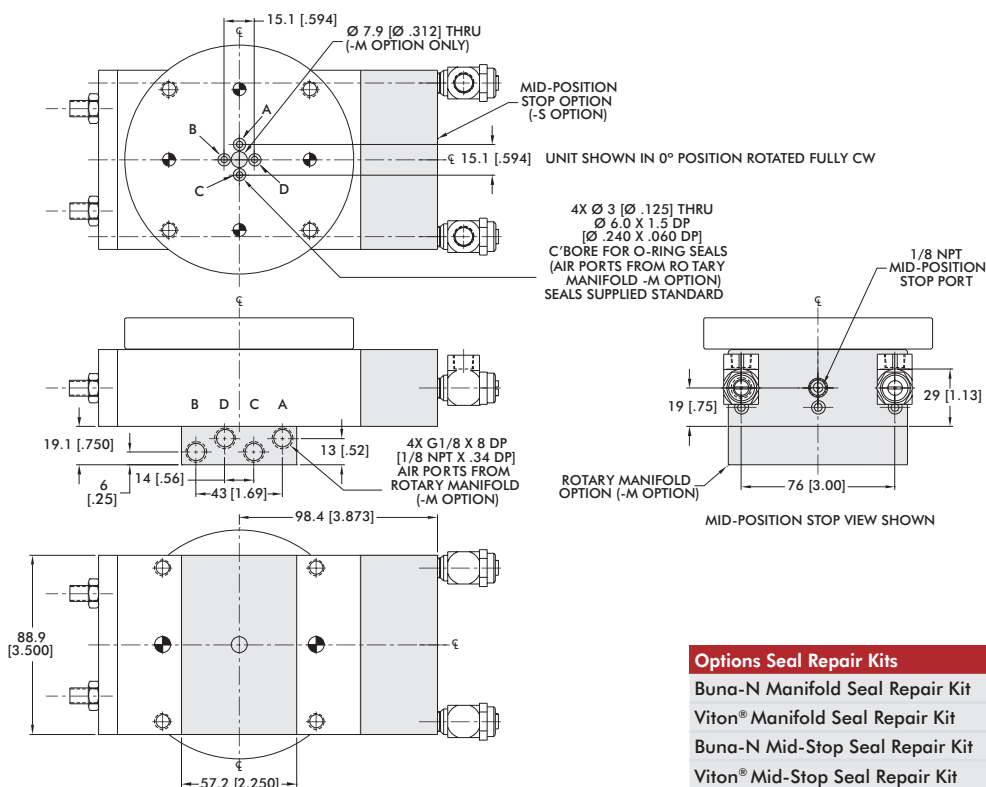
RR-46 Loading Information	Static
Maximum Tensile T	890 N [200 lbs]
Maximum Compressive C	4448 N [1000 lbs]
Maximum Moment M_x	57 Nm [500 in-lbs]
Maximum Moment M_y	57 Nm [500 in-lbs]
Maximum Payload W	6.8 kg [15 lbs]
Maximum Inertia J	0.01096 N-m-sec ² [0.0970 in-lbs-sec ²]

UNIT SHOWN IN 0° POSITION ROTATED FULLY CW



Base Unit Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-017
Viton® Seal Repair Kit	SLKT-017V

Options Dimensions



Options Seal Repair Kits		Order #
Buna-N Manifold Seal Repair Kit	-M	SLKT-067
Viton® Manifold Seal Repair Kit	-M-V	SLKT-067V
Buna-N Mid-Stop Seal Repair Kit	-S	SLKT-068
Viton® Mid-Stop Seal Repair Kit	-S-V	SLKT-068V