

DESTACO Custom Catalog

12/07/2020



CESEHSA

México info@cesehsa.com.mx cesehsa.com.mx



DESTACO Custom Catalog

12/07/2020

This catalog is a custom document and the products included is based on your unique selection from portions of complete catalogs that already exist. Please refer to our full catalogs for more information on products not included in this customized document.

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Rotary Actuators GR-ROT-1



DESTACO Custom Catalog

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ROTARY ACTUATORS

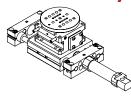
Rotary Actuators | Product Overview | DIRECTCONNECT™ Mounting Examples

	Model	Stroke Range	Payload Range	Operating Environment	Special Features	Page GR-ROT#
DRF		0°-180°	0.45-6.8 [1-15]	IP54. Clean Room Class 100, ISO 5	Compact rotary. Zero backlash ideal for precision end stop positioning. Multiple turntable options for tool mounting.	3
DRG		0°-180°	0.2-3.6 [0.5-8]	IP54. Clean Room Class 100, ISO 5	Compact Rotary Shaft Payload Mounting. Multiple mounting options. DIRECT CONNECT.	9
RR-18 & 28		0°-180°	0.45-1.3 [1-3]	IP66 with Purge and Seal option. Clean Room Class 100,000, ISO 8	Compact Size. Flange Payload Mount. Full Torque at End of Stroke.	15
RR-36 thru 76	DE SEE	0°-180°	3.6-91 [8-200]	IP55. Clean Room Class 100,000, ISO 9	Large Payload. Flange Payload Mount. Zero Backlash. Optional 4 port rotary manifold.	19

Modular DIRECTCONNECT™ Mounting Style Examples:

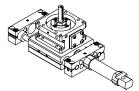
Products can be mounted in multiple positions. Refer to datasheet for complete info.





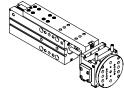
DLB Base Slide to **DRF Rotary Actuator**

Slide to Rotary



DLB Base Slide to **DRG Rotary Actuator**

Slide to Rotary



DLM Thruster Slide to **DRF Rotary Actuator**

Rotary to Slide



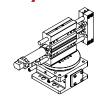
DRF Rotary Actuator to **DLM Thruster Slide**

Rotary to Slide



DRF Rotary Actuator to **DLM Thruster Slide**

Rotary to Slide



DRF Rotary Actuator to **DLT Thruster Slide**

Rotary to Gripper



DRF Rotary Actuator to **DPE Electric Gripper**

Rotary to Gripper



DRF Rotary Actuator to **DPL Parallel Gripper**

Rotary to Gripper



DRF Rotary Actuator to **DPDL Parallel Gripper**

Rotary to Gripper



DRF Rotary Actuator to **DPP Parallel Gripper**

Rotary to Rotary



DRF Rotary Actuator to **DRG Rotary Actuator**

Rotary to Rotary



DRF Rotary Actuator to **DRF Rotary Actuator**



ROTARY ACTUATORS

Rotary Actuators | DIRECTCONNECT™ Mounting Compatibility Chart

DESTACO's DIRECTCONNECT™ technology, allows all components of the system-grippers, rotaries and slides—to be mounted together directly. Look for matching icons on product datasheets for mounting compatibility.





Note: The numbers in the cell represent the metric screw size and basic mounting pattern. S=Square, R=Rectangle. ie; 5S = M5 Screw with square mounting pattern.

3-3quare, K-keciangie. ie, 33 - M3 Screw willi square mooiliii		9 F	55 5R		
	Catalog Models		Rotary Actuators		
		DRF-075,094	DRF-106	DRF-131	
	DLB-06,08				
Base Slides	DLB-10,12,16	5R	5R	5R	
	DLB-20,25		10R	10R	
	DLT-06,08	3R,3S	3R,3S		
	DLT-10,12,16	5R,5S	5R,5S	5R,5S	
Thruster Slides	DLT-20,25			10R,10S	
	DLM-07	3R,3S	3R,3S		
	DLM-9,12	5R,5S	5R,5S	5R,5S	
	DRF-075,094	5R	5R	5R	
	DRF-106	5R	5R	10R	
Balance Automorphism	DRF-131	5R	5R	10R	
Rotary Actuators	DRG-074,094	5R	5R	5R	
	DRG-106	5R	5R	10R	
	DRG-131	5R	5R	10R	
	DGC	5R	5R	5R	
	DPG	5R	5R	5R	
	DCT-12, 16, 20	3R	3R		
	DCT-25	5R	5R	5R	
	DPDL-047,056	3R	3R		
	DPDL-088,125	5R	5R	5R	
	DPDL-175,250			10R	
	DPDS-047,056	3R	3R		
	DPDS-088,125	5R	5R	5R	
	DPDS-175,250			10R	
Grippers	DPL-25xx	5R	5R	5R	
	DPL-32xx,40xx			10R	
	DPP-10,14	3R	3R		
	DPP-20	5R	5R	5R	
	DPP-28	5R	5R	10R	
	DPW-250	3R	3R		
	DPW-375,500	5R	5R	5R	
	G100-08,011	3R	3R		
	G100-18,25	5R	5R	5R	
	DPE-200	5R	5R	5R	
	DPE-400			10R	

DRF SERIES

Rotary Actuators | Features and Benefits | How To Order

Features:

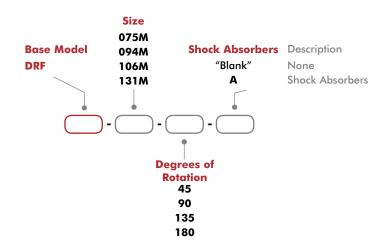
- · Use for precision end stop positioning applications
- Zero Backlash Applications
- Full Torque at end of stroke
- · Multiple turntable options for tool mounting
- Rotational adjustments of 45,° 90,° 135,° 180°
- Extremely rugged design for long term reliability
- Optional shock absorbers for end stop deceleration

Applications:

- Product loading
- Part orientation
- Heavy payloads compact space



How To Order



Accessories

Turntable Accessories	Model Numbers	Part Number	Qty/Unit
Blank Turntable	See Datash	eet	1
DIRECTCONNECT™ Turntable	See Datash	eet	1

Sensor Accessories	Model Numbers	Part Number	Qty/Unit
NPN Magneto Resistive Sensor with Quick Disconnect*	All Models	OHSN-017	1-2
PNP Magneto Resistive Sensor with Quick Disconnect*	All Models	OHSP-017	1-2
NPN Magneto Resistive Sensor 90° Barrel with Quick Disconnect*	All Models	OH\$N-011	1-2
PNP Magneto Resistive Sensor 90° Barrel with Quick Disconnect*	All Models	OHSP-011	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

Pneumatic Accessories	Model Numbers	Part Number	Qty/Unit
Fitting Push-in Straight G1/8, 6mm O.D. Tube	131M	PLFT-038	1-2
Fitting Push-in Straight G1/8, 8mm O.D. Tube	131M	PLFT-045	1-2
Flow Control Push-in 90° Elbow M5-6mm O.D. Tube**	075M, 094M, 106M	VLVF-008	1-2
Flow Control Push-in 90° Elbow G1/8-6mm O.D. Tube**	131M	VLVF-005	1-2

^{**}Flow Controls recommended for most applications *Sensor and cable sold separately.



DRF SERIES

Rotary Actuators | Technical Specifications

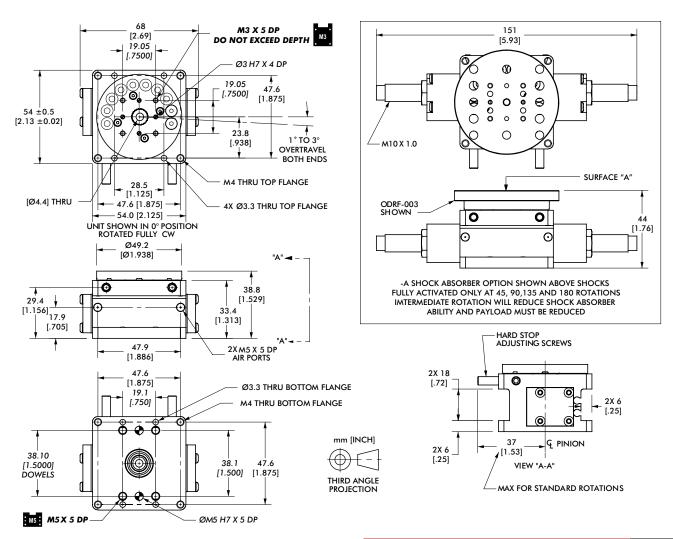
Specifications	Units	075M	094M	
Maximum Payload with Shocks (-A option)	kg [lb]	0.45 [1.0]	1.4 [3.0]	
Maximum Payload without Shocks	kg [lb]	0.23 [0.5]	0.68 [1.5]	
Maximum Payload Inertia with Shocks (-A option)	Nm sec ² [in-lbs sec ²]	1.8 X 10⁴ [0.0016]	1.3 X 10³ [0.0111]	
Maximum Payload Inertia without Shocks	Nm sec ² [in-lbs sec ²]	9.0 X 10⁵ [0.0008]	6.3 X 10⁴ [0.0056]	
Maximum Torque @ 100psi/7 bar	Nm [lbs-in]	0.9 [8.3]	1.9 [17.3]	
Maximum Rotation		18	80°	
Pitch Diameter of Pinion	mm [in]	9.5 [0.375]	12.7 [0.500]	
Weight with Shocks (-A option)	kg [lb]	0.34 [0.72]	0.64 [1.4]	
Weight without Shocks	kg [lb]	0.24 [0.54]	0.50 [1.1]	
Pressure Range	bar [psi]	3-7 [40-100]		
Ingress Protection Class (IP)		IP54		
Displacement (180°)	cm³ [in³]	5.1 [0.31]	9.0 [0.55]	
Actuation Time (180° @ 100psi/7 bar)	sec	0.5	38	
Actuation Time (90° @ 100psi/7 bar)	sec	0.29		
Over Travel (each end)		1°-3°		
Temperature Range with Shocks (-A option)	ature Range with Shocks (-A option) °C [°F] -0°~66° [-32°~150°]		32°~150°]	
Temperature Range without Shocks °C [°F]		-35°~82° [-30°~180°]		
End Stop Adjustability (each end)		23°		
Repeatability		±0.02°		
Valve required to actuate		4-way, 2	-position	

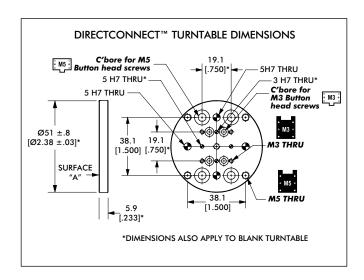
Specifications	Units	106M	131M	
Maximum Payload with Shocks (-A option)	kg [lb]	3.6 [8.0]	6.8 [15]	
Maximum Payload without Shocks	kg [lb]	1.8 [4.0]	3.4 [7.5]	
Maximum Payload Inertia with Shocks (-A option)	Nm sec ² [in-lbs sec ²]	4.7 X 10³ [0.0414]	1.1 X 10 ² [0.0970]	
Maximum Payload Inertia without Shocks	Nm sec ² [in-lbs sec ²]	2.3 X 10 ³ [0.0207]	5.5 X 10³ [0.0485]	
Maximum Torque @ 100psi/7 bar	Nm [lbs-in]	3.8 [33.2]	7.6 Nm [67.6]	
Maximum Rotation		18	0°	
Pitch Diameter of Pinion	mm [in]	19.1 [0.750]	25.4 [1.000]	
Weight with Shocks (-A option)	kg [lb]	1.4 [3.1]	3.1 [6.8]	
Weight without Shocks	kg [lb]	1.1 [2.5]	2.9 [6.3]	
Pressure Range bar [psi]		3-7 [40-100]		
Ingress Protection Class (IP)		IP54		
Displacement (180°)	cm³ [in³]	19.0 [1.16]	34.6 [2.11]	
Actuation Time (180° @ 100psi/7 bar)	sec	0.60	0.87	
Actuation Time (90° @ 100psi/7 bar)	sec	0.45	0.68	
Over Travel (each end)		1°-	· 3°	
Temperature Range with Shocks (-A option) °C [°F]		-0°~66° [-32°~150°]		
Temperature Range without Shocks °C [°F]		-35°~82° [-30°~180°]		
End Stop Adjustability (each end)		23°		
Repeatability		±0.02°		
Valve required to actuate		4-way, 2-position		





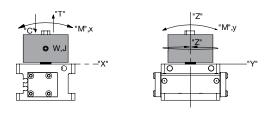






Rotary Accessories	Order #
Blank Turntable	ODRF-002
DIRECTCONNECT™ Turntable	ODRF-004

Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-210
Buna-N Shock Seal Repair Kit	SLKT-214



DRF-075M Loading Information	Static
Maximum Tensile T	44 N [10 lbs]
Maximum Compressive C	89 N [20 lbs]
Maximum Moment M_X	2.3 Nm [20 in-lbs]
Maximum Moment My	2.3 Nm [20 in-lbs]
Maximum Payload W	0.45 kg [1.0 lbs]
Maximum Inertia J	1.8 X 10 ⁻⁴ N-m-sec ² [0.0016 in-lbs-sec ²]

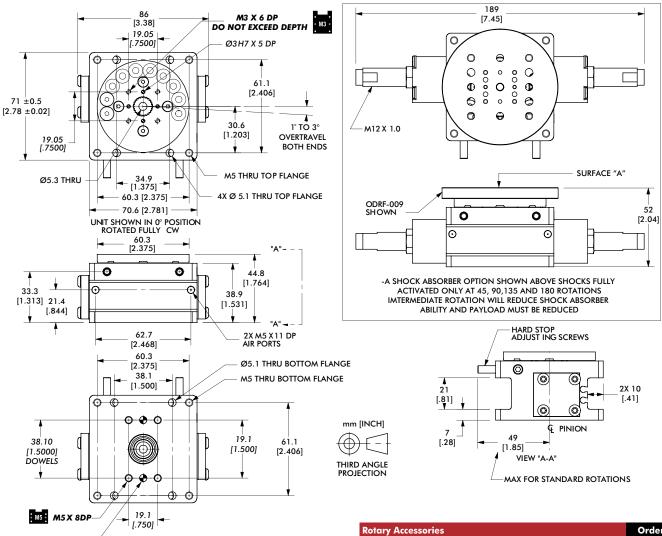


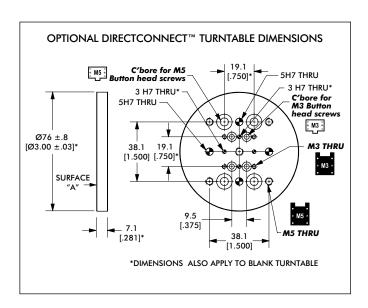








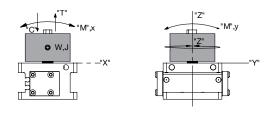




Ø M5 H7 X 7 DP

Rotary Accessories	Order #
Blank Turntable	ODRF-008
DIRECTCONNECT™ Turntable	ODRF-010

Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-216
Buna-N Rotational Adjustment Seal Kit	SLKT-219



DRF-094M Loading Information	Static
Maximum Tensile T	67 N [15 lbs]
Maximum Compressive C	133 N [30 lbs]
Maximum Moment M _X	5.6 Nm [50 in-lbs]
Maximum Moment My	5.6 Nm [50 in-lbs]
Maximum Payload W	1.4 kg [3 lbs]
Maximum Inertia J	1.3 X 10 ⁻³ N-m-sec ² [0.0111 in-lbs-sec ²]

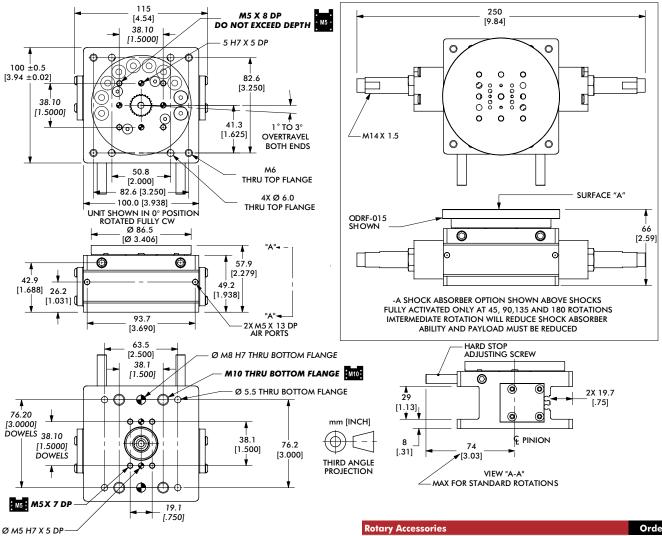


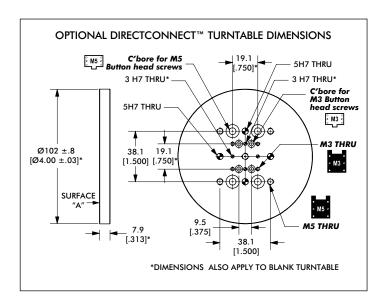
DRF-106M





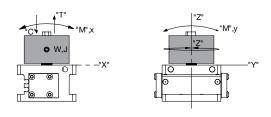
Rotary Actuators | Dimensions and Technical Specifications







Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-222
Buna-N Shock Seal Repair Kit	SLKT-225



DRF-106M Loading Information	Static
Maximum Tensile T	111 N [25 lbs]
Maximum Compressive C	89 N [50 lbs]
Maximum Moment M_X	8.5 Nm [75 in-lbs]
Maximum Moment My	8.5 Nm [75 in-lbs]
Maximum Payload W	3.6 kg [8 lbs]
Maximum Inertia J	4.7 X 10 ⁻³ N-m-sec ² [0.0414 in-lbs-sec ²]





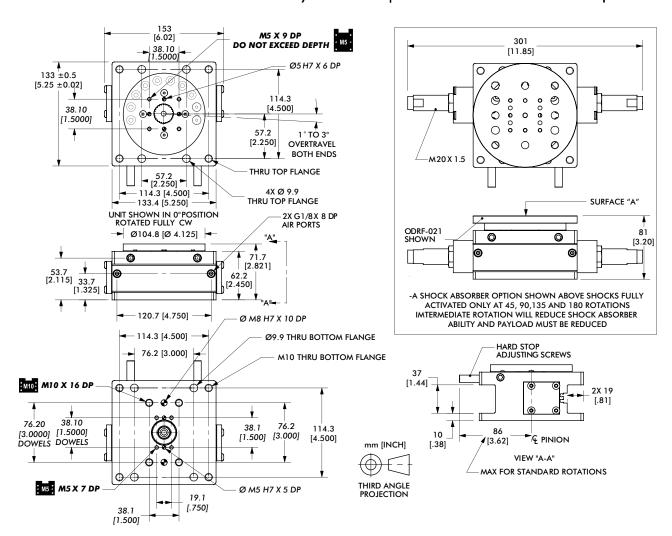


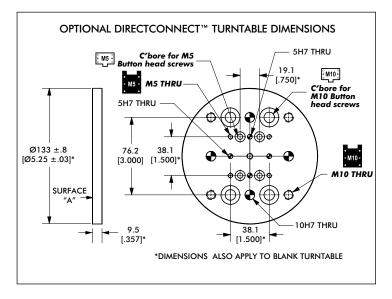






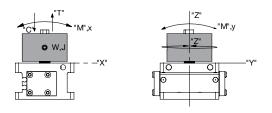






Rotary Accessories	Order #
Blank Turntable	ODRF-020
DIRECTCONNECT™ Turntable	ODRF-022

Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-228
Buna-N Rotational Adjustment Seal Kit	SLKT-232



DRF-131M Loading Information	Static
Maximum Tensile T	222 N [50 lbs]
Maximum Compressive C	445 N [100 lbs]
Maximum Moment M_X	11.3 Nm [100 in-lbs]
Maximum Moment My	11.3 Nm [100 in-lbs]
Maximum Payload W	3.4 kg [7.5 lbs]
Maximum Inertia J	5.5 X 10 ⁻³ N-m-sec ² [0.0485 in-lbs-sec ²]



DRG SERIES

Rotary Actuators | Features and Benefits | How To Order

Features:

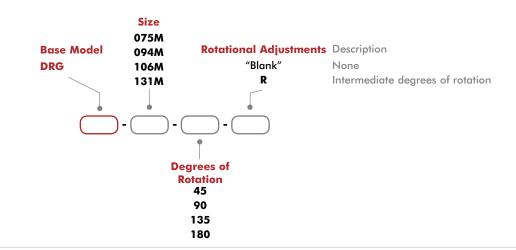
- Shaft output design for low precision end stop positioning applications
- Full Torque at end of stroke
- · Metric Keyway on shaft for coupling payload
- Multiple mounting configurations
- **-R** option allows for rotational adjustment beyond 45,° 90,° 135,° 180,°
- Extremely rugged design for long term reliability

Applications:

- Torque generator
- Diverter gates
- Ejection stations



How To Order



Accessories

Sensor Accessories	Model Numbers	Part Number	Qty/Unit
NPN Magneto Resistive Sensor with Quick Disconnect*	All Models	OHSN-017	1-2
PNP Magneto Resistive Sensor with Quick Disconnect*	All Models	OHSP-017	1-2
NPN Magneto Resistive Sensor 90° Barrel with Quick Disconnect*	All Models	OH\$N-011	1-2
PNP Magneto Resistive Sensor 90° Barrel with Quick Disconnect*	All Models	OHSP-011	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

Pneumatic Accessories	Model Numbers	Part Number	Qty/Unit
Fitting Push-in 90° Elbow G1/8, 6mm O.D. Tube	131M	PLFT-042	1-2
Fitting Push-in 90° Elbow G1/8, 8mm O.D. Tube	131M	PLFT-048	1-2
Fitting Push-in Straight G1/8, 6mm O.D. Tube	131M	PLFT-038	1-2
Fitting Push-in Straight G1/8, 8mm O.D. Tube	131M	PLFT-045	1-2
Flow Control Push-in 90° Elbow M5-6mm O.D. Tube**	075M, 094M, 106M	VLVF-008	1-2
Flow Control Push-in 90° Elbow G1/8-6mm O.D. Tube**	131M	VLVF-005	1-2

^{*}Sensor and cable sold separately.

^{**}Flow Controls recommended for most applications



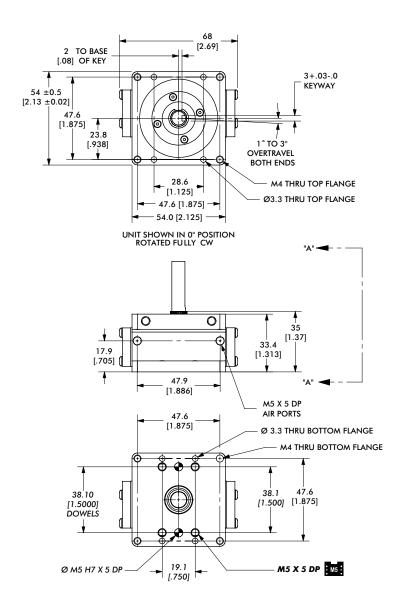
DRG SERIES

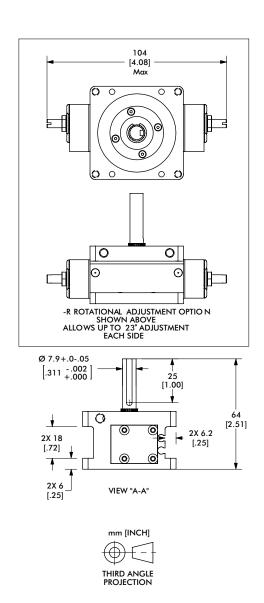
Rotary Actuators | Technical Specifications

Specifications	Units	075M	094M
Maximum Payload	kg [lb]	0.23 [0.5]	0.68 [1.5]
Maximum Payload Inertia	Nm sec ² [in-lbs sec ²]	9.0 X 10⁵ [0.0008]	6.3 X 10⁴ [0.0056]
Maximum Torque @ 100psi/7 bar	Nm [lbs-in]	0.9 [0.83]	1.9 Nm [17.3]
Maximum Rotation		18	80°
Pitch Diameter of Pinion	mm [in]	9.5 [0.375]	12.7 [0.500]
Weight with rotational adjuster (-R option)	mm [in]	0.33 [0.72]	0.54 [1.2]
Weight without rotational adjuster	mm [in]	0.24 [0.52]	0.45 [1.0]
Pressure Range	bar [psi]	3-7 [40-100]	
Ingress Protection Class (IP)		IP54	
Displacement (180°)		5.1 [0.31]	9.0 [0.55]
Actuation Time (180° @ 100psi/7 bar)	sec	0.	38
Actuation Time (90° @ 100psi/7 bar)	sec	0.29	
Temperature Range	°C [°F]	-35°~82° [-30°~180°]	
End Stop Adjustability (-R option)	°C [°F]	23°	
Over Travel (each end)		1°-3°	
Valve required to actuate		4-way, 2-position	

Specifications	Units	106M	131M
Maximum Payload	kg [lb]	1.8 [4]	3.5 [7.5]
Maximum Payload Inertia	Nm sec ² [in-lbs sec ²]	2.3 X 10³ [0.0207]	5.5 X 10³ [0.0485]
Maximum Torque @ 100psi/7 bar	Nm [lbs-in]	3.8 [33.2]	7.6 [68]
Maximum Rotation		18	80°
Pitch Diameter of Pinion	mm [in]	19.1 [0.750]	25.4 [1.000]
Weight with rotational adjuster (-R option)	mm [in]	1.2 [2.7]	2.5 [5.6]
Weight without rotational adjuster	mm [in]	1.1 [2.5]	2.4 [5.4]
Pressure Range	bar [psi]	3-7 [40-100]	
Ingress Protection Class (IP)		IP54	
Displacement (180°)		19.0 [1.16]	34.6 [2.11]
Actuation Time (180° @ 100psi/7 bar)	sec	0.60	0.87
Actuation Time (90° @ 100psi/7 bar)	sec	0.45	0.68
Temperature Range	°C [°F]	-35°~82° [-30°~180°]	
End Stop Adjustability (-R option)	°C [°F]	23°	
Over Travel (each end)		1°-3°	
Valve required to actuate		4-way, 2	-position

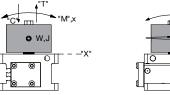


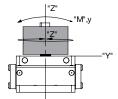




Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-210
Buna-N Rotational Adjustment Seal Kit	SLKT-212

Loading Information

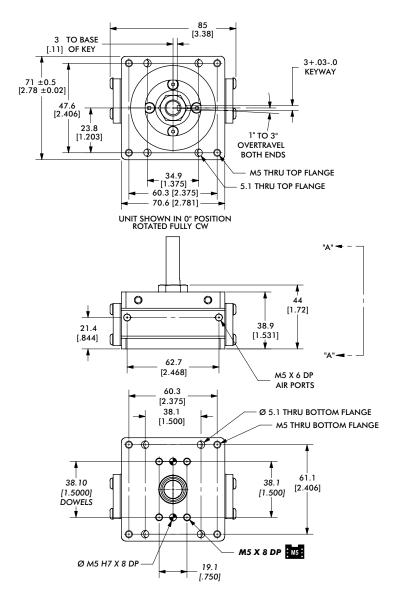


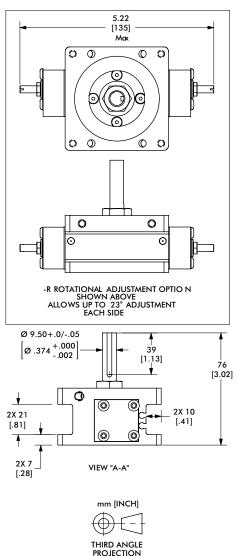


DRG-075M Loading information	Static
Maximum Tensile T	44 N [10 lbs]
Maximum Compressive C	89 N [20 lbs]
Maximum Moment M _X	2.3 Nm [20 in-lbs]
Maximum Moment My	2.3 Nm [20 in-lbs]
Maximum Payload W	0.23 kg [0.5 lbs]
Maximum Inertia J	9.0 X 10 ⁻⁵ N-m-sec ² [.0008 in-lbs-sec ²]



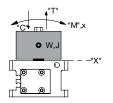


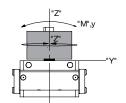




Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-216
Bung-N Rotational Adjustment Seal Kit	SLKT-218

Loading Information



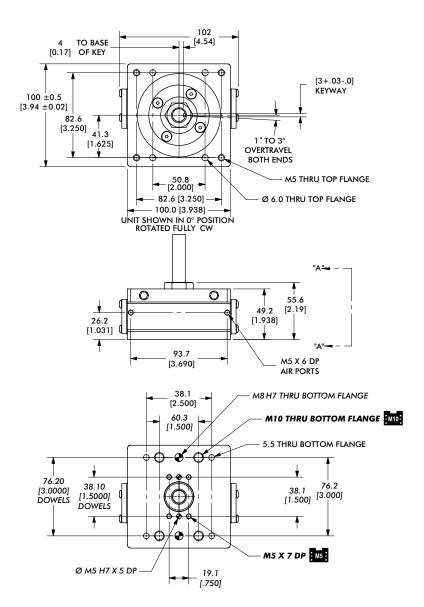


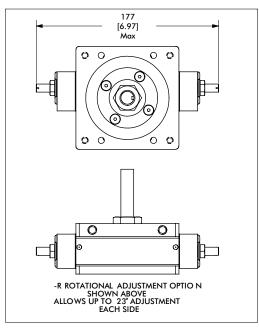
DRG-094M Loading Information	Static
Maximum Tensile T	67 N [15 lbs]
Maximum Compressive C	133 N [30 lbs]
Maximum Moment M_X	5.6 Nm [50 in-lbs]
Maximum Moment My	5.6 Nm [50 in-lbs]
Maximum Payload W	0.68 kg [1.5 lbs]
Maximum Inertia J	6.3 X 10 ⁻⁴ N-m-sec ² [0.0056 in-lbs-sec ²]

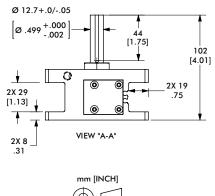








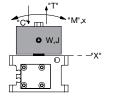


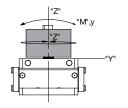




Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-222
Buna-N Rotational Adjustment Seal Kit	SLKT-224

Loading Information



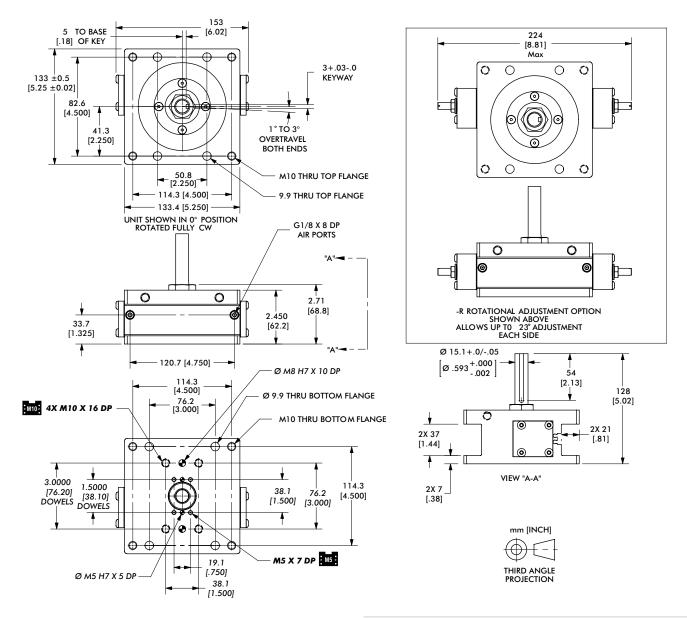


DRG-106M Loading Information	Static
Maximum Tensile T	111 N [25 lbs]
Maximum Compressive C	222 N [50 lbs]
Maximum Moment M _X	8.5 Nm [75 in-lbs]
Maximum Moment My	8.5 Nm [75 in-lbs]
Maximum Payload W	1.8 kg [4 lbs]
Maximum Inertia J	2.3 X 10 ⁻³ N-m-sec ² [0.0207 in-lbs-sec ²]



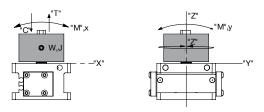






Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-228
Buna-N Rotational Adjustment Seal Kit	SLKT-230

Loading Information



DRG-131M	Static	
Maximum Tensile T	222 N [50 lbs]	
Maximum Compressive C	445 N [100 lbs]	
Maximum Moment M _X	11.3 Nm [100 in-lbs]	
Maximum Moment My	11.3 Nm [100 in-lbs]	
Maximum Payload W	3.4 kg [7.5 lbs]	
Maximum Inertia J	5.5 X 10 ⁻³ N-m-sec ² [0.0485 in-lbs-sec ²]	



RR LIGHT-DUTY SERIES

Rotary Actuators | Features and Benefits | How To Order

Features:

- Ultra-thin profile for tight space applications
- Preloaded bearings for high repeatability rotary actuation
- Zero backlash and slip fit dowel pins for precision applications
- Built-in adjustable hard-stops
- Optional manifold eliminates twisted airlines
- CR- Clean room option or for use in harsh environment applications

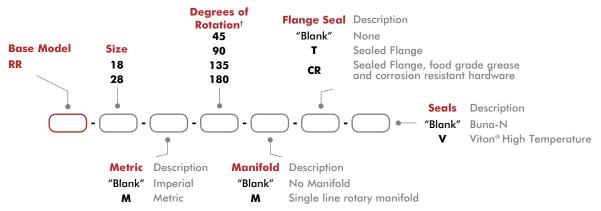
Applications:

- · Precision rotary positioning
- Medical applications
- OEM machines



(USB key shown for scale)

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

Pneumatic Accessories	Model Numbers	Part Number	Qty/Unit
M3 Plumbing Fitting Push-In for 3mm OD Tube	All Models	PLFT-021	2
M3 Plumbing Fitting Barb for 2mm ID Tube	All Models	PLFT-022	2
#10-32 Flow Control (Imperial)	All Models	VLVF-007	2
M5 Flow Control	All Models	VLVF-008	2

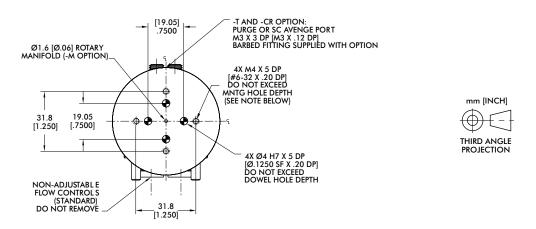
^{*}Sensor and cable sold separately.



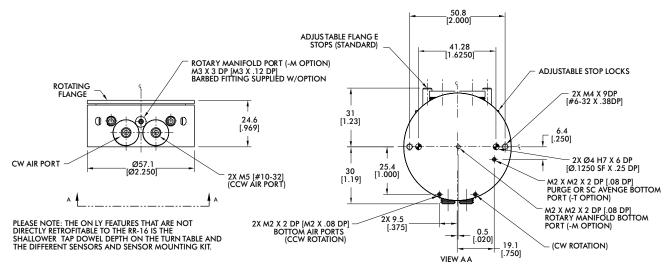
RR LIGHT-DUTY SERIES

Rotary Actuators | Technical Specifications

Specifications	Units	18	28
Maximum Payload	kg [lb]	0.45 [1.0]	1.36 [3.0]
Maximum Payload Inertia	Nm sec ² [in-lbs sec ²]	0.000181 [0.0016]	0.001255 [0.0111]
Maximum Rotation		180°	
Maximum Torque Mid-Stroke @ 100psi/7 bar	Number 11	0.7 [/ 5]	2 5 (22)
Maximum Torque End Stroke @ 100psi/7 bar	Mm [lbs-in]	0.7 [6.5]	2.5 [22]
Pitch Diameter of Pinion	mm [in]	8.46 [0.333]	12.7 [0.50]
Weight	kg [lb]	0.22 [0.48]	0.65 [1.44]
Pressure Range	bar [psi]	2-7 [30-100]	
Ingress Protection Class (IP)		IP66	
Displacement (180°)	cm³ [in³]	3.37 [0.205]	11.4 [0.69]
Temperature Range (Buna-N seals)	°C [°F]	-35°~80° [-30°~180°]	
Temperature Range (Viton® seals)	°C [°F]	-30°~150° [-20°~300°]	
Actuation Time (180° @ 100psi/7 bar)	sec	0.30	0.35
Actuation Time (90° @ 100psi/7 bar)	sec	0.25	0.30
nd Stop Repeatability		±0.	02°
End Stop Adjustability	stability 23°		3°
Over Travel (each end)		4 °	8°
Valve required to actuate		4-way, 2	-position

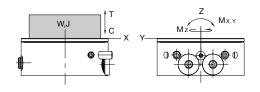


UNIT SHOWN IN 0° POSITION ROTATED FULLY CW



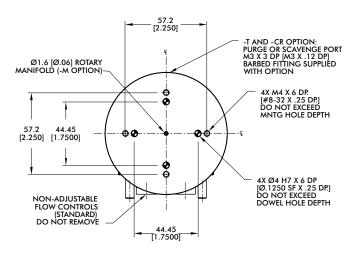
Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-173
Viton® Seal Repair Kit	SLKT-173V
Viton® Bottom Air Port Manifold Seal Kit	SLKT-174V

Loading Information



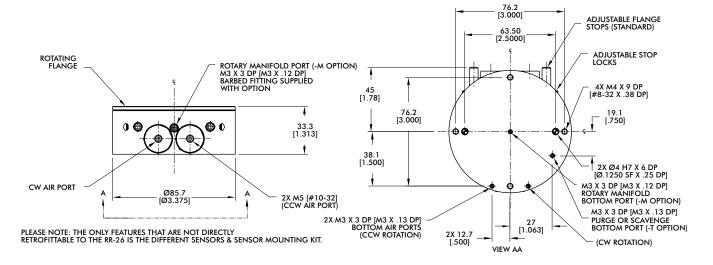
RR-18 Loading Information	Static
Maximum Tensile T	222 N [50 lbs]
Maximum Compressive C	1112 N [250 lbs]
Maximum Moment M _X	11 Nm [100 in-lbs]
Maximum Moment My	11 Nm [100 in-lbs]
Maximum Payload W	0.45 kg [1 lbs]
Maximum Inertia J	0.000181 N-m-sec ² [0.0016 in-lbs-sec ²]





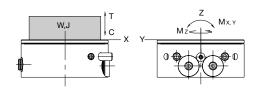


UNIT SHOWN IN 0° POSITION ROTATED FULLY CW



Seal Repair Kits	Order #
Buna-N Seal Repair Kit	SLKT-175
Viton® Seal Repair Kit	SLKT-175V
Viton® Bottom Air Port Manifold Seal Kit	SLKT-176V

Loading Information



RR-28 Loading Information	Static
Maximum Tensile T	334 N [75 lbs]
Maximum Compressive C	2224 N [500 lbs]
Maximum Moment M _X	28 Nm [250 in-lbs]
Maximum Moment My	28 Nm [250 in-lbs]
Maximum Payload W	1.36 kg [3 lbs]
Maximum Inertia J	0.001255 N-m-sec ² [0.0111 in-lbs-sec ²]



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

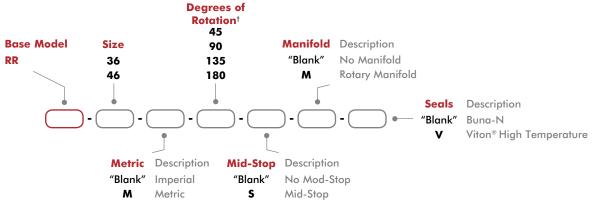
Applications:

- Precision rotary positioning
- Part orientation
- Load and unload



(USB Rey Shown for Scale

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.

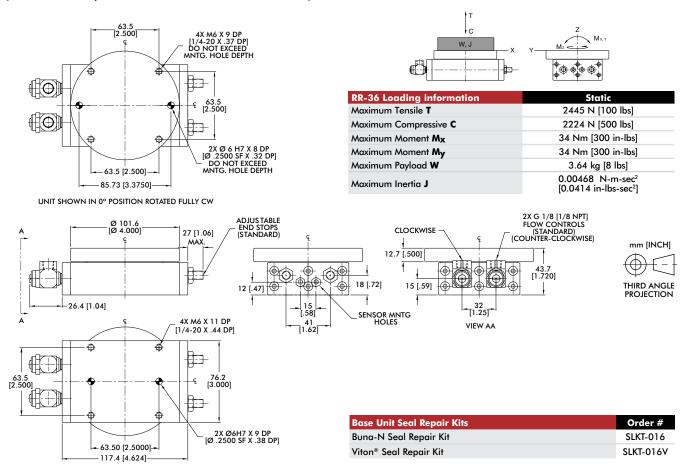


RR MEDIUM-DUTY SERIES

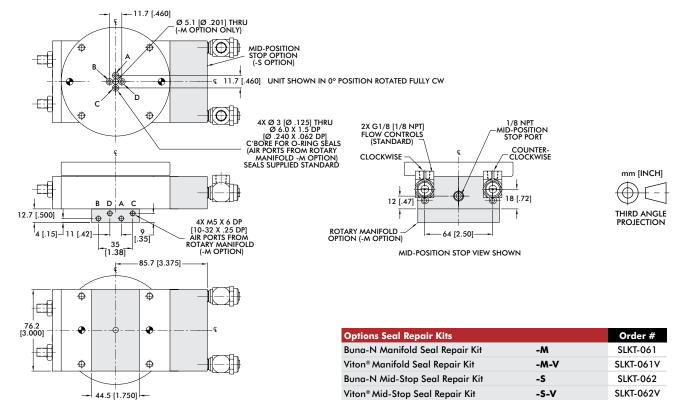
Rotary Actuators | Technical Specifications

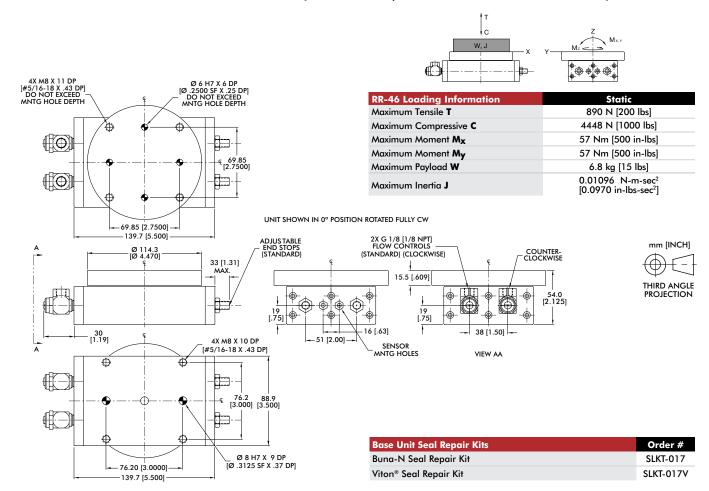
Specifications	Units	36	46	
Maximum Payload	kg [lb]	3.6 [8.0]	6.8 [15]	
Maximum Payload Inertia	Nm sec ² [in-lbs sec ²]	0.00468 [0.0414]	0.01096 [0.0970]	
Maximum Rotation		180°		
Maximum Torque Mid-Stroke @ 100psi/7 bar	Nm [lbs-in]	7.4 [65]	14 [122]	
Maximum Torque End-Stroke @ 100psi/7 bar	Nm [lbs-in]	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°)	cm³ [in³]	33.6 [2.05]	63.18 [3.855]	
Displacement of Mid-Position Stop	cm³ [in³]	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		

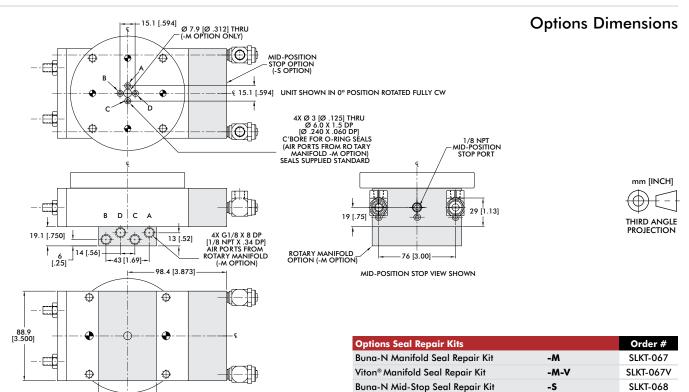




Options Dimensions







SLKT-068V

-S-V

Viton® Mid-Stop Seal Repair Kit

-57.2 [2.250]

RR HEAVY-DUTY SERIES

Rotary Actuators | Features and Benefits | How To Order

Features:

· Compact large capacity, high torque for tight space applications

· Use in heavy duty industrial and foundry applications

· Mount payload directly to flange without additional support

· Preloaded bearings for high repeatability rotary actuation

• Zero backlash & precision slip fit dowel pins

· Adjustable flow controls

• Optional manifold eliminates twisted airlines

• 3 position rotary with option mid-stop

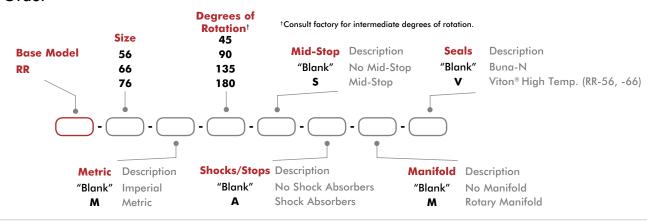
Applications:

• Large torque application • Foundry applications • Load and unload



RR-56

How To Order



Accessories

Sensor Accessories	Model Numbers	Part Number	Qty/Unit
Inductive Sensor Mounting Kit (mounts 2 sensors)	-56, -66	OSMK-075	1
Inductive Sensor Mounting Kit (mounts 2 sensors)	-76	OSMK-096	1
Magneto Resistive Sensor Mounting Kit (mounts 2 sensors)	-56, -66	OSMK-069	1
NPN Inductive Sensor with Quick Disconnect*	-56, -66	OISN-011	1-2
PNP Inductive Sensor with Quick Disconnect*	-56, -66	OISP-011	1-2
NPN Inductive Sensor with Quick Disconnect*	-76	OISN-017	1-2
PNP Inductive Sensor with Quick Disconnect*	-76	OISP-017	1-2
NPN Magneto Resistive Sensor with Quick Disconnect*	-56, -66	OHSN-017	1-2
PNP Magneto Resistive Sensor with Quick Disconnect*	-56, -66	OHSP-017	1-2
Quick Disconnect 2 Meter Cable Length*	-56, -66	CABL-010	1-2
Quick Disconnect 5 Meter Cable Length*	-56, -66	CABL-013	1-2
Quick Disconnect 2 Meter Cable Length*	-76	CABL-014	1-2
Quick Disconnect 5 Meter Cable Length*	-76	CABL-018	1-2

Pneumatic Accessories	Model Numbers	Part Number	Qty/Unit
1/4 NPT Flow Controls (Imperial)	-56	VLVF-009	2
G 1/4 BSPP Flow Controls	-56	VLVF-010	2
3/8 Flow Control (Imperial)	-66, -76	VLVF-011	2
G 3/8 BSPP Flow Control	-66, -76	VLVF-012	2
Adapter 1/8 NPT to G 1/8	-76	PLFT-028	1
Adapter 3/8 NPT to G 3/8	-76	PLFT-029	1

^{*}Sensor and cable sold separately.



RR HEAVY-DUTY SERIES

Rotary Actuators | Technical Specifications

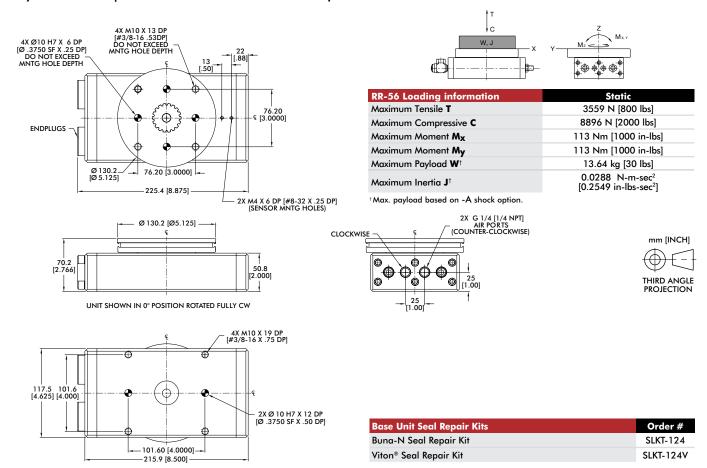
Specifications	Units	56	66	76
Maximum Payload†	kg [lb]	13.6 [30]	34 [75]	91 [200]
Maximum Payload Inertia†	Nm sec ² [in-lbs sec ²]	0.02880 [0.2549]	0.11584 [1.0251]	0.5596 [4.95]
Maximum Rotation		180°		
Maximum Torque Mid-Stroke @ 100psi/7 bar	Nm [lbs-in]	35 [311]	82 [728]	215 [1900]
Maximum Torque End-Stroke @ 100psi/7 bar	Nm [lbs-in]	17 [155]	41 [364]	107 [950]
Weight (base unit)	kg [lb]	5.3 [11.6]	11.8 [26]	24 [53]
Weight Adder for Mid-Position Stop	kg [lb]	0.82 [1.8]	0.82 [1.8]	3.8 [8.3]
Weight Adder for Rotary Manifold	kg [lb]	0.54 [1.2]	0.36 [0.82]	2.0 [4.2]
Pressure Range	bar [psi]	3-7 [40-100]		
Ingress Protection Class (IP)		IP55		
Displacement	cm³ [in³]	160.1 [9.77]	375 [22.8]	1026 [62.6]
Displacement of Mid-Position Stop	cm³ [in³]	90.16 [5.502]	60.32 [2.375]	885 [54]
Temperature Range (Buna-N seals)	°C [°F]	0°~66° [-32°~150°]		
Temperature Range (Viton® seals)				
Actuation Time (180° @ 100psi/7 bar)	sec	0.48	0.70	1.4
Actuation Time (90° @ 100psi/7 bar)	sec	0.40	0.50	0.8
End-Stop Repeatability		±0.02°		
Mid-Stop Repeatability		±0.5°		
End-Stop Adjustability*		30° 20°)°
Over Travel (each end)		4 °		
Valve required to actuate		4-way, 2-position		
Valve required to actuate Mid-Stop		3-way, 2-position		

[†]Max. payload based on -A shock option.

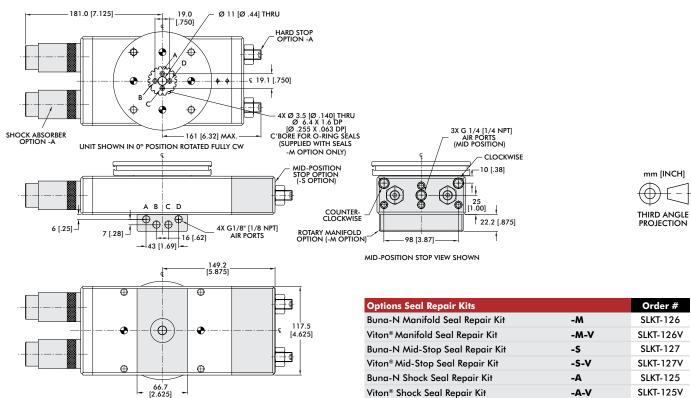
^{*}Any adjustment of the End Stop Adjustment Screw must be accompanied by an equal adjustment of the Shock Absorbers to prevent bottoming of the pistons against the Shock Absorbers.

RR-56

Rotary Actuators | Dimensions and Technical Specifications



Options Dimensions

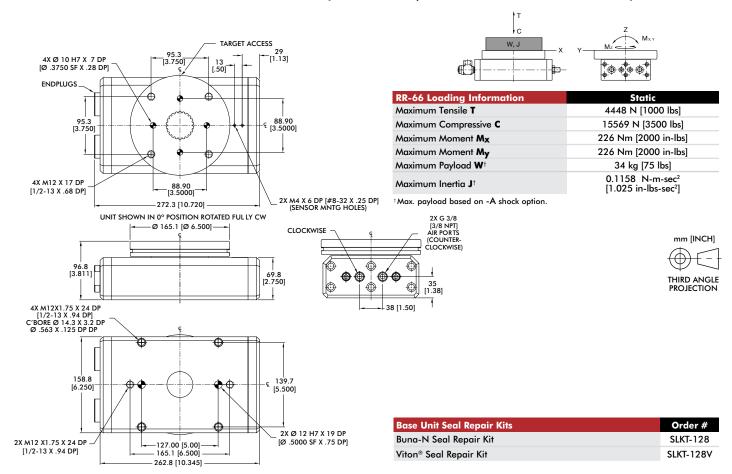


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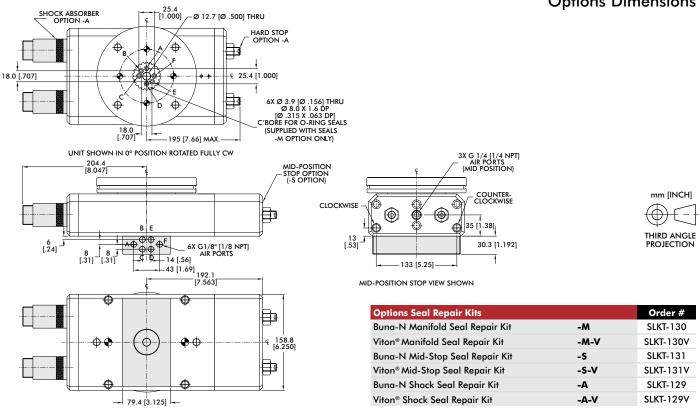
-A-V

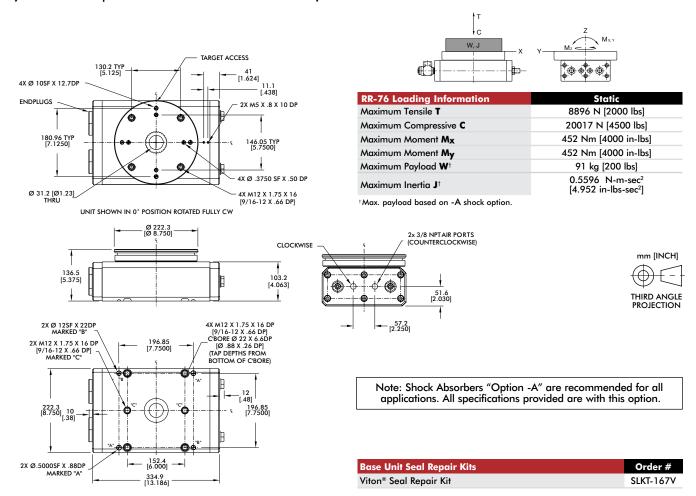
SLKT-125V

Viton® Shock Seal Repair Kit

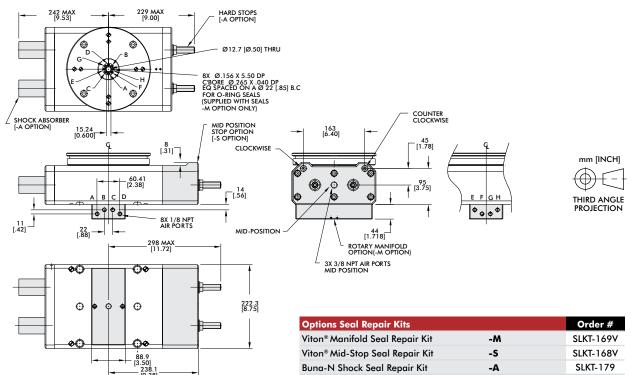


Options Dimensions





Options Dimensions



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ROTARY ACTUATORS

Notes







GLOBAL LOCATIONS

NORTH AMERICA

Corporate Headquarters

Auburn Hills, Michigan Toll Free: 1.888.DESTACO

Marketing: marketing@destaco.com

Global Technology Center

Auburn Hills, Michigan Tel: 1.248.836.6700

Customer Service: customerservice@destaco.com

Mt. Juliet, Tennessee Tel: 1.888.DESTACO

Customer Service: customerservice@destaco.com

Wheeling, Illinois Tel: 1.800.645.5207

Customer Service: camco@destaco.com

Red Wing, Minnesota (Central Research Laboratories)

Tel: 651.385.2142

Customer Service: sales@centres.com

ASIA

Thailand

Tel: +66-2-326-0812

Customer Service: info@destaco.com

Tel: +86-21-6081-2888

Customer Service: china@destaco.com

Tel: +91-80-41123421-426

Customer Service: india@destaco.com

EUROPE

Tel: +49-6171-705-0

Customer Service: europe@destaco.com

Tel: +33-4-73545001

Customer Service: france@destaco.com

Great Britain

Tel: +44-1902-797980

Customer Service: uk@destaco.com

Spain

Tel: +34-936361680

Customer Service: spain@destaco.com

Netherlands

Tel: +31-297285332

Customer Service: benelux@destaco.com







