

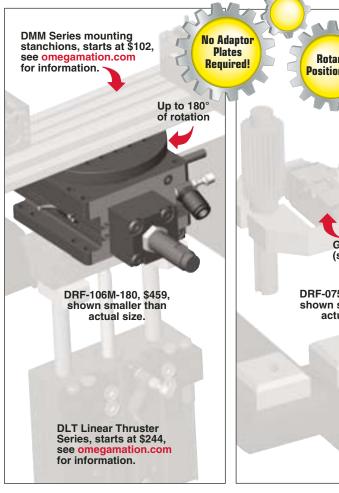


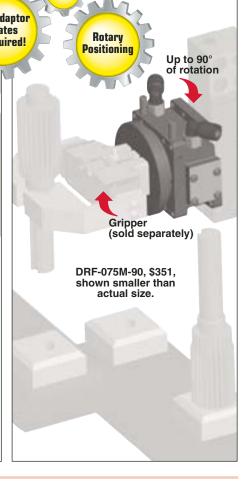
ROTARY ACTUATORS— PNEUMATIC, FLANGE MOUNTABLE DRF DIRECTCONNECTM SERIES

DRF Series Starts at \$351



- Rotary Motion Actuator— Precision End Stop Position and Zero Backlash
- Adjustable Rotation with a Maximum of 180° Full Rotation
- Repeatability ±0.02° of Rotation
- Highly Configurable Modular Automation, Exclusive DirectConnect Technology
- Multiple Mounting Locations— Tapped and Through the Flange on Top and Bottom Surfaces
- Up to 5 Million Cycles in Typical Application, Up to 10 Million with Maintenance
- Temperature Operating Range -35 to 80°C (-30 to 180°F)
- Double Acting Air Cylinder
- System Requires 3 to 7 bar (40 to 100 psi) Dry Filtered (40 Micron or Better) Air Supply
- Accessory Equipment Required— 4-Way, 2 Position Pneumatic Direction Control Valve





PRODUCT FEATURES Sensor Mounting Slots

Standard mounting slots for Magneto Resistive Sensors magnet mounted in piston standard (sensors sold separately).

Extremely Rugged Design

Pinion is supported with upper and lower sealed ball bearings.

End Stop Deceleration (-A Option)

Shock absorbers decelerates load at end of stroke.

Black Anodize Body

The body and End Plates are Black anodized, steel parts are / black oxide.

Flange Mounting Turntable has

Turntable has DIRECTCONNECT mounting pattern

One Piece Body

One piece lightweight aircraft quality aluminum body.

Dowel Holes

Slip fit dowel pin holes in bottom body, and on turntable.

Piston

DRF-075M-090-A, \$486 shown close to actual size. Made of Delrin® for extended life.

DIRECTCONNECTMounting Patterns

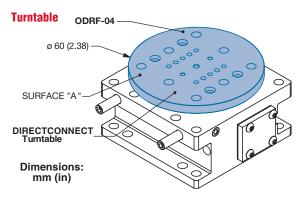
Tapped and Dowel mounting surface on bottom of body and on turntable.

Case Hardened

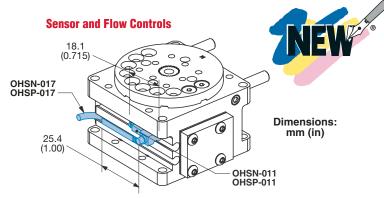
Rack and pinion are case hardened for wear and long life.

Rotational Adjustments

All rotational adjustments made from front face. Adjustments are locked with set screw on side.



- DIRECTCONNECT Turntable, Easily Removed, Pin Located
- High Quality Aircraft Aluminum, Black Anodized Finish
- Mounts Through Pinion with One Screw and Two Dowels
- No Machining Required, DIRECTCONNECT Grippers Mount Directly
- 90° Orientations



- PNP and NPN Magneto Resistive Available
- Sensors Are Slot Mounted, No Mounting Kits Required
- Precision Rotary Adjustments Made from Face and Locked with Set Screws
- Tubing, Fittings and Additional Pneumatic Controls and Accessories Available, see omegamation.com or Consult Sales

To Order (Specify Model Number)

MOST POPULAR MODELS HIGHLIGHTED!

MODEL NO.	PRICE	DEPTH mm (in)	WIDTH mm (in)	HEIGHT mm (in)	MAX PAYLOAD Kg (lbs)	MAX ROTATION	WEIGHT Kg (lbs)
DRF-075M-90	\$351	54 (2.13)	69 (2.69)	37 (1.52)	0.23 (0.5)	90°	0.24 (0.54)
DRF-075M-180	351	54 (2.13)	69 (2.69)	37 (1.52)	0.23 (0.5)	180°	0.24 (0.54)
DRF-075M-90-A	486	54 (2.13)	151 (5.93)	37 (1.52)	0.45 (1)	90°	0.34 (0.72)
DRF-075M-180-A	486	54 (2.13)	151 (5.93)	37 (1.52)	0.45 (1)	180°	0.34 (0.72)
DRF-094M-90	384	71 (2.78)	86 (3.36)	49 (1.76)	0.68 (1.50)	90°	0.50 (1.10)
DRF-094M-180	384	71 (2.78)	86 (3.36)	49 (1.76)	0.68 (1.50)	180°	0.50 (1.10)
DRF-094M-90-A	548	71 (2.78)	189 (7.45)	49 (1.76)	1.4 (3.00)	90°	0.64 (1.40)
DRF-094M-180-A	548	71 (2.78)	189 (7.45)	49 (1.76)	1.4 (3.00)	180°	0.64 (1.40)
DRF-106M-90	459	100 (3.94)	115 (4.54)	58 (2.28)	1.8 (4.00)	90°	1.1 (2.50)
DRF-106M-180	459	100 (3.94)	115 (4.54)	58 (2.28)	1.8 (4.00)	180°	1.1 (2.50)
DRF-106M-90-A	648	100 (3.94)	250 (9.84)	58 (2.28)	3.6 (8.00)	90°	1.4 (3.10)
DRF-106M-180-A	648	100 (3.94)	250 (9.84)	58 (2.28)	3.6 (8.00)	180°	1.4 (3.10)
DRF-131M-90	536	133 (5.25)	153 (6.02)	72 (2.82)	3.4 (7.50)	90°	2.9 (6.30)
DRF-131M-180	536	133 (5.25)	153 (6.02)	72 (2.82)	3.4 (7.50)	180°	2.9 (6.30)
DRF-131M-90-A	785	133 (5.25)	301 (11.85)	72 (2.82)	6.8 (15.00)	90°	3.1 (6.80)
DRF-131M-180-A	785	133 (5.25)	301 (11.85)	72 (2.82)	6.8 (15.00)	180°	3.1 (6.80)

Ordering Example: DRF-075M-90-A, precision rotary actuator with 90° of rotation and built in shock absorber, \$486. Recommend accessories include 2 sensors and 2 pneumatic flow controls for each slide, along with a 4-way 2 position valve. DRF-075M models: acutuation time [180° @ 7 bar (100 psi) 0.29 seconds]. DRF-094M models: acutuation time [180° @ 7 bar (100 psi) 0.29 seconds]. DRF-106M models: acutuation time [180° @ 7 bar (100 psi) 0.29 seconds]. DRF-106M models: acutuation time [180° @ 7 bar (100 psi) 0.29 seconds], actuation time [180° @ 7 bar (100 psi) 0.29 seconds]. DRF-131M models: acutuation time [180° @ 7 bar (100 psi) 0.38 seconds], actuation time [90° @ 7 Bar (100 psi) 0.29 seconds]. DRF-131M models: acutuation time [180° @ 7 bar (100 psi) 0.38 seconds], actuation time [90° @ 7 Bar (100 psi) 0.29 seconds]. All models end stop adjustability 23°, over travel (each end) 1 to 3°. Detailed specification and CAD drawings available at omegamation.com.

Accessories

MODEL NO.	PRICE	DESCRIPTION			
SENSOR ACCESSORIES					
OHSP-011	\$63	PNP magneto resistive sensor 90° barrell with quick disconnect fitting			
OHSN-011	63	NPN magneto resistive sensor 90° barrell with quick disconnect fitting			
OHSP-017	63	PNP magneto resistive sensor short barrell with quick disconnect fitting			
OHSN-017	63	NPN magneto resistive sensor short barrell with quick disconnect fitting			
CABL-010	23	2 m sensor extension cable with quick disconnect fitting			
PNEUMATIC ACCESSORIES					
Pneumatic Tubing	Consult Sales	Polyurethane tubing in multiple diameters and colors available, see omegamation.com			
		Poly-tube fittings in male or female NPT in multiple configurations, see omegamation.com			
Pneumatic Flow Controls	Consult Sales	Adjustable flow control fittings and directional control valves, see omegamation.com			
MECHANICAL ACCESSORIES					
ODRF-004	49	Rotary Size 075, DirectConnect turntable metric, direct mounting for gripper, no machining necessary			
ODRF-010	49	Rotary Size 094, DirectConnect turntable metric, direct mounting for gripper, no machining necessary			
DMM Series	Consult Sales	Aluminum extruded mounting stanchions for slides and thrusters, see omegamation.com			
Hardware	Consult Sales	Gussets, and other hardware for stanchions, see omegamation.com			

Turntables and output shafts available for all DRF models, see omegamation.com.

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• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters