

COMPACT
AUTOMATION PRODUCTS

OEM Series Rotary Actuators



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OEM 1-1/4" (OC) Series

ROTARY VANE ACTUATORS:

- 15 base models with torque outputs from 9 in. lbs. to 100 in. lbs.
- Rotations 90, 180 & 270 degrees.

As compared to other rotary devices...

Vane actuators have:

- One moving part providing:
 - ZERO backlash.
 - No loss of motion.
 - Smooth rotation.
 - Precise repeatability.
 - Continuous full torque throughout rotation.
- ITT Patented Urethane seals for:
 - Long cycle life and Non-lube service.
- 100s of standard options and modifications.



**OEM SERIES ACTUATOR
MODEL NUMBER: 532-5Q1**

SPECIFICATIONS

Unit Materials

Stator/Rotor Seals.....Urethane
 Shaft/Tube Seals.....Buna¹
 Shaft 303 Stainless Steel
 BodyAnodized Alum.
 BearingsDelrin

Shaft Load Capacities

*Max. Side Load50lbs.
 *Max. End Load.....5lbs.

Miscellaneous

Inlets.....1/8 NPT
 Min. Pressure.....40 psi
 Max. Pressure.....100 psi
 Cylinder Bore1-1/4"

Temperature Range

40°F to 180°F
 For applications below 40°F,
 a variety of seal options are available
 based upon cycle rates, temperatures
 and frequency of use. Consult the factory
 to discuss your cold temperature
 application for your optimum solution.

Filtration

Air25-50 microns

Cycle Rates³

Max. non-lubed rate:

Double Vane40cpm
 Single Vane20cpm

Max. lubed rate:

Consult Factory

Rotary Motion Backlash

All models0 degree

Leak Rates

Air4 cfm or less@100psi

- 1 Viton Optional
- 2 All rotations are nominal +4/-0 actual
- 3 Cycle = Start position to end of rotation and returning to the start position.
Stroke = 1/2 cycle

Torque Chart (IN. LBS.)			
180° and 270° Rotations ²			
Actuator Model	Actuator Torque at		
	100 PSI	80 PSI	60 PSI
511 (270)	9	7	5
513 (180)			
521 (270)	13	10	8
523 (180)			
531 (270)	25	20	15
533 (180)			
541 (270)	32	26	19
543 (180)			
561 (270)	50	40	30
563 (180)			

Torque Chart (IN. LBS.)			
90° Rotations ²			
Actuator Model	Actuator Torque at		
	100 PSI	80 PSI	60 PSI
512	17	14	10
522	25	20	15
532	44	35	26
542	60	48	36
562	100	80	60

Capacity per Stroke ³ (IN ³)			
	270° Rotation ²		90° Rotation ²
511	0.50	512	0.42
521	0.99	522	0.84
531	1.49	532	1.26
541	1.99	542	1.68
561	3.49	562	2.96

Weights (OZs)			
	270° Rotation ²		90° Rotation ²
511	8	512	8
521	10	522	10
531	12	532	12
541	14	542	14
561	18	562	18

How to Order: OEM 1-1/4" (OC) Bore Series

MODEL	END CAPS	SHAFT	UNIT MATERIAL	OPTIONS	OPTIONS
511	5	Y	1	XXX	XXX
1	2	3	4	5	5

1

Model				
Model	Series	Torque	Rotation	
511	OC	- 09	- 270	
512	OC	- 17	- 90	
513	OC	- 09	- 180	
521	OC	- 13	- 270	
522	OC	- 25	- 90	
523	OC	- 13	- 180	
531	OC	- 25	- 270	
532	OC	- 44	- 90	
533	OC	- 25	- 180	
541	OC	- 32	- 270	
542	OC	- 60	- 90	
543	OC	- 32	- 180	
561	OC	- 50	- 270	
562	OC	- 100	- 90	
563	OC	- 50	- 180	

2

End Caps	
To Specify other modifications; Consult Factory	
5	Pneumatic- Clear Anodize

3

Shaft	
To Specify other modifications; Consult Factory	
Y	Single End - No Keyway (STD)
M	Double End - No Keyway Each End
W	Single End - Woodruff Key
V	Double End - Woodruff Key Each End
U	Single End - Shaft Flat
T	Double End - Shaft Flat Each End
S	Single End - Keyway
R	Double End - Keyway Each End
Q	Single End - Acces. Stub other End

4

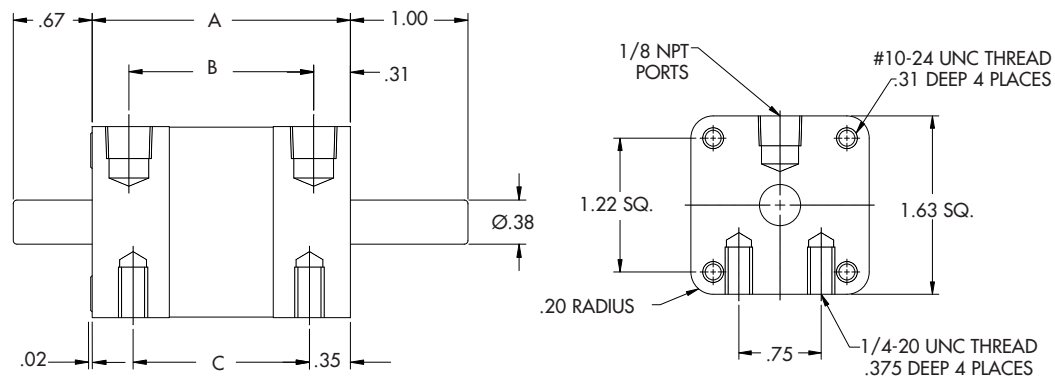
Unit Materials	
Shaft - Body - Trim	
1	303 Stainless Steel - Anodized Aluminum - Carbon Steel
3	303 Stainless Steel - Anodized Aluminum - Stainless Steel

5

Options	
Additional options available on pg. 8	
000	No Options
400	Adjustable Stroke Control - Cap End, Pos.5
801	Side Mounts - Positions 2 & 6
803	Side Mounts - Positions 4 & 8
804	Side Mounts - Positions 2, 4, 6 & 8
B00	Urethane Bumpers
T01	3/8" Trantorque® Shaft Coupler - Carbon Steel
T02	3/8" Trantorque® Shaft Coupler - Stainless Steel Stainless Shaft Coupler has 1/3 the Transmissible Torque as T01 (see pg. 15)
Switch Options	
Additional switch options available on pg. 14	
All Axx Switch Options are Single End Only	
A00	Switch Package - No Switches
A02	Switch Pkg. - 2 Reed Switches
A05	Switch Pkg. - 2 Sourcing Switches
A08	Switch Pkg. - 2 Sinking Switches

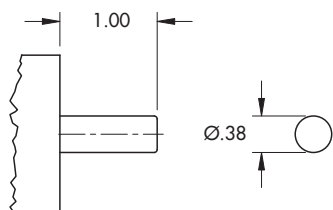
Dimensional Data: OEM 1-1/4" (OC) Series

Basic Dimensions

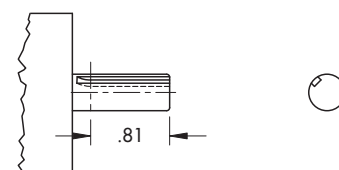


Dimensional Specifications			
Actuator	A	B	C
51X	1.70	1.07	1.00
52X	2.20	1.57	1.50
53X	2.70	2.07	2.00
54X	3.20	2.57	2.50
56X	4.75	4.12	4.05

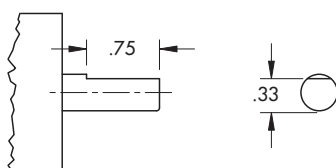
Shaft Options



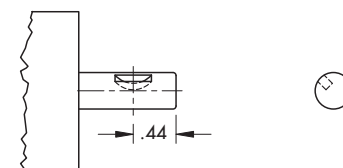
Basic Shaft



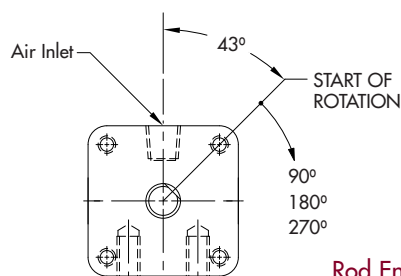
3/32" Square Keyway



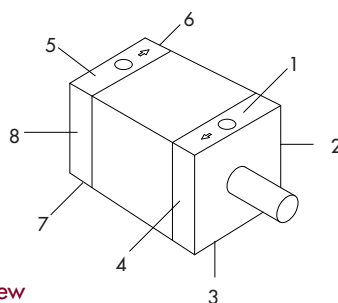
Shaft Flat



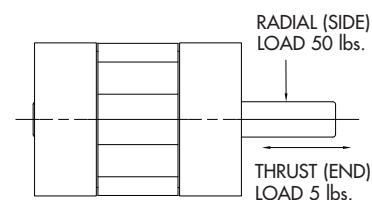
#303 Woodruff Key



Rod End View



Port & Mounting Position References



Shaft Load Capacity

Nominal Rotations (+4/-0 actual)

NOTE: The 43° start position is nominal. Tolerances are +/- 2 degrees.

OEM 2-1/2" (OT) Series

ROTARY VANE ACTUATORS:

- 12 base models with torque outputs from 87 in. lbs. to 700 in. lbs.
- Rotations 45°, 90°, 180° & 270° degrees.

As compared to other rotary devices...

Vane actuators have:

- One moving part providing:
 - ZERO backlash.
 - No loss of motion.
 - Smooth rotation.
 - Precise repeatability.
 - Continuous full torque throughout the rotation.
- Patented Urethane seals for:
 - Long cycle life and Non-lube service.
- 100s of standard options and modifications.



**OEM SERIES ACTUATOR
MODEL NUMBER: 612-5Q1**

SPECIFICATIONS

Unit Materials

Stator/Rotor SealsUrethane
 Shaft/Tube SealsBuna¹
 Shaft1144 Steel
 BodyAnodized Alum.
 BearingsDelrin Bushing

Miscellaneous

Inlets1/4 NPT
 Min. Pressure35psi
 Max. Pressure200 psi
 Cylinder Bore2-1/2"

Shaft Load Capacities

Max. Side Load100 lbs.
 Max. End Load10 lbs.

Temperature Range

40°F to 180°F
 For applications below 40°F,
 a variety of seal options are available
 based upon cycle rates, temperatures and
 frequency of use. Consult the factory to
 discuss your cold temperature application
 for your optimum solution.

Filtration

Air25-50 microns

Cycle Rates³

Max. non-lubed rate:

Double Vane40cpm
 Single Vane20cpm

Max. lubed rate:

Consult Factory

Rotary Motion Backlash

All models0 degree

Leak Rates

Air4 cfm or less@100psi

¹ Viton Optional

² All rotations are nominal +4/-0 actual

³ Cycle = Start position to end of rotation
 and returning to the start position.
 Stroke = 1/2 cycle

Torque Chart (IN. LBS.)

180° and 270° Rotations²

Actuator Model	Actuator Torque at		
	100 PSI	80 PSI	60 PSI
611	87	70	105
613			
621	175	140	105
623			
631	350	280	300
633			

Torque Chart (IN. LBS.)

45° AND 90° Rotations²

Actuator Model	Actuator Torque at		
	100 PSI	80 PSI	60 PSI
612	175	140	105
614			
622	350	280	210
624			
632	700	560	420
634			

Capacity per Stroke³ (IN³)

270° Rotation ²		90° Rotation ²	
611	4.52	612	2.75
621	8.50	622	5.50
631	17.00	632	11.00

Weights (LBS.)

270° Rotation ²		90° Rotation ²	
611	2.5	612	2.5
621	3.3	622	3.3
631	6.0	632	6.0

How to Order: OEM 2-1/2" (OT) Bore Series

MODEL	END CAPS	SHAFT	UNIT MATERIAL	OPTIONS	OPTIONS
613	5	S	1	XXX	XXX
1	2	3	4	5	5

1	Model
Model	Series - Torque - Rotation
611	OT - 87 - 270
612	OT - 175 - 90
613	OT - 87 - 180
614	OT - 175 - 45
621	OT - 175 - 270
622	OT - 350 - 90
623	OT - 175 - 180
624	OT - 350 - 45
631	OT - 350 - 270
632	OT - 700 - 90
633	OT - 350 - 180
634	OT - 700 - 45

2	End Caps
To Specify other modifications; Consult Factory	
5	Pneumatic- Clear Anodize

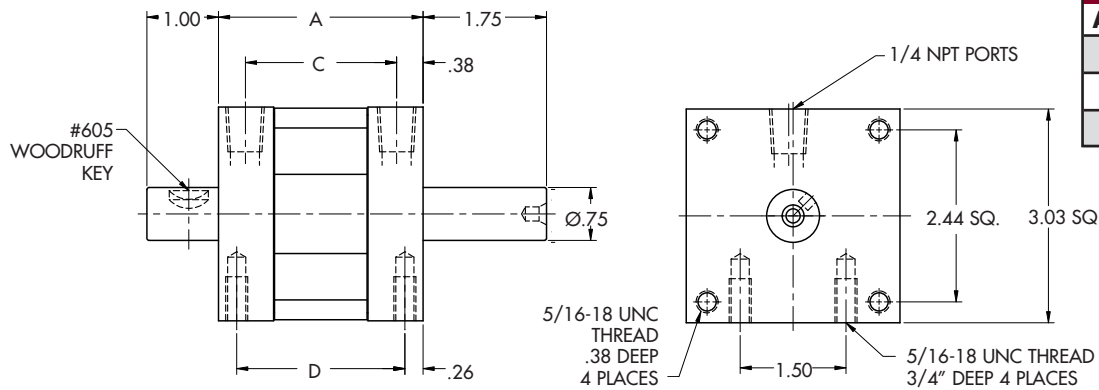
3	Shaft
To Specify other modifications; Consult Factory	
Y	Single End - No Keyway
M	Double End - No Keyway Each End
W	Single End - Woodruff Key
V	Double End - Woodruff Key Each End
U	Single End - Shaft Flat
T	Double End - Shaft Flat Each End
S	Single End - Keyway
R	Double End - Keyway Each End
Q	Single End - Acces. Stub other End

4	Unit Materials
Shaft - Body - Trim	
1	1144 Carbon Steel - Anodized Aluminum - Carbon Steel

5	Options
Additional options available on pg. 8	
000	No Options
400	Adjustable Stroke Control - Cap End, Pos.5
801	Side Mounts - Positions 2 & 6
803	Side Mounts - Positions 4 & 8
804	Side Mounts - Positions 2, 4, 6 & 8
B00	Urethane Bumpers
T01	3/4" Trantorque® Shaft Coupler - Carbon Steel
T02	3/4" Trantorque® Shaft Coupler - Stainless Steel Stainless Shaft Coupler has 1/3 the Transmissible Torque as T01 (see pg. 15)
Switch Options	
Additional switch options available on pg. 14	
All Axx Switch Options are Single End Only	
A00	Switch Package - No Switches
A02	Switch Pkg. - 2 Reed Switches
A05	Switch Pkg. - 2 Sourcing Switches
A08	Switch Pkg. - 2 Sinking Switches

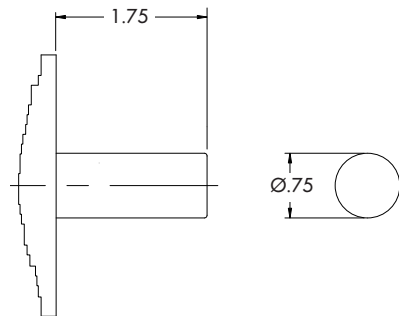
Dimensional Data: OEM 2-1/2" (OT)

Basic Dimensions

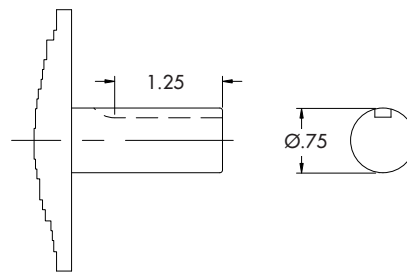


Dimensional Specifications			
Actuator	A	C	D
61X	2.90	2.15	2.38
62X	4.40	3.64	3.88
63X	7.42	6.67	6.91

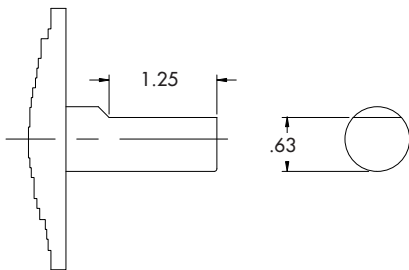
Shaft Options



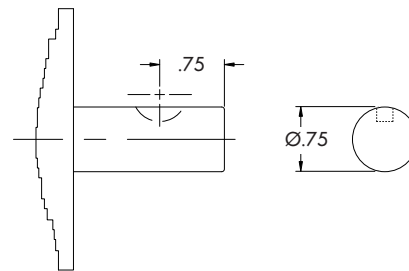
Basic Shaft



3/16" Square Keyway

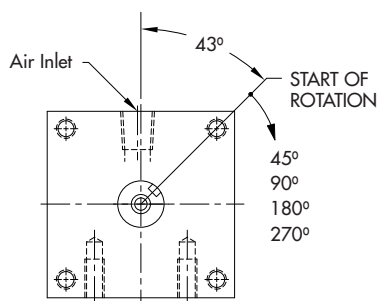


Shaft Flat

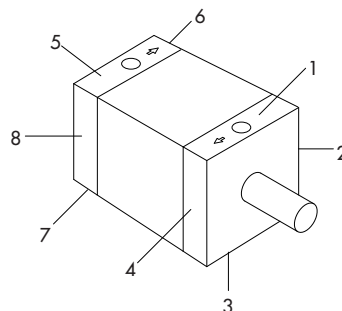


#605 Woodruff Key

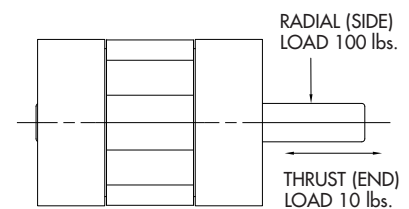
NOTE: Center drill omitted from shaft details for clarity.



Rod End View



Port & Mounting Position References



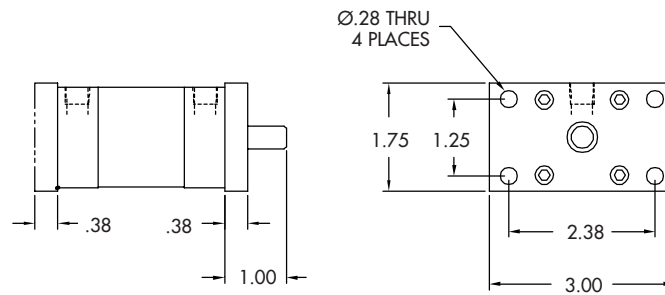
Shaft Load Capacity

Nominal Rotations (+4/-0 actual)

NOTE: The 43° start position is nominal. Tolerances are +/- 2 degrees.

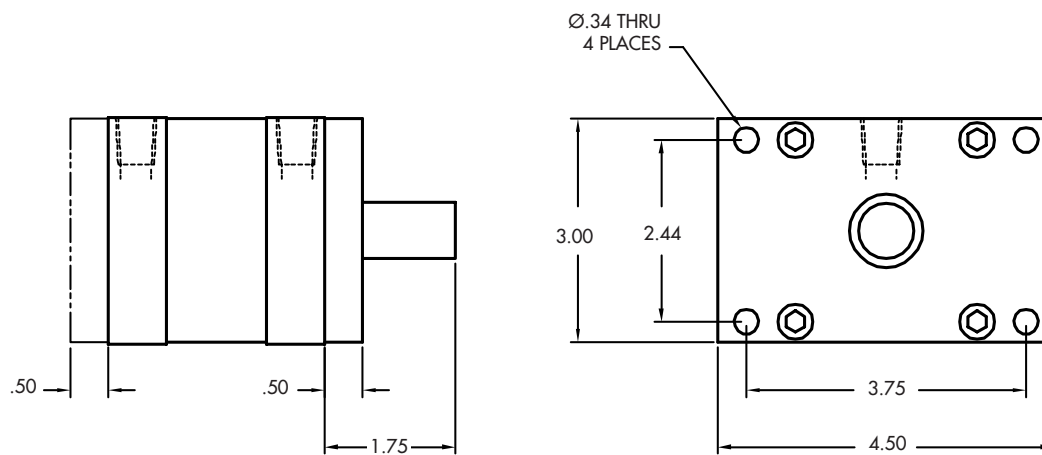
OEM Options– Flange Mount

OEM 1-1/4 Bore (OC) Series



NOTE: Side Mounts surface 3 & 7 are standard, but are not shown for clarity. Standard Bottom Mount dimensions shown on page 4.

OEM 2-1/2 Bore (OT) Series



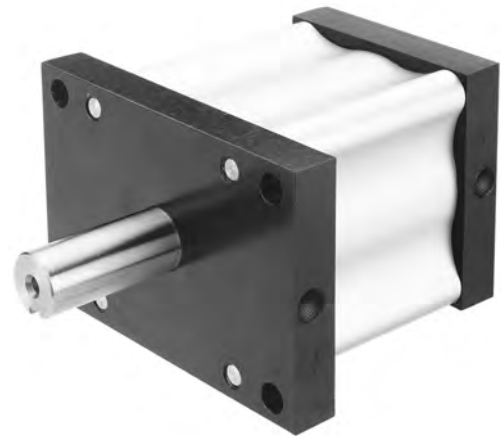
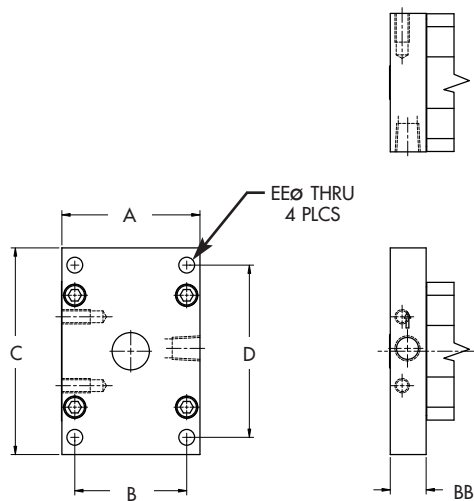
NOTE: Side Mounts surface 3 & 7 are standard, but are not shown for clarity. Standard Bottom Mount dimensions shown on page 7.

NOTE: The Flange Mount option and Adjustable Stroke Control option may not be ordered on the same end of a unit.

Option#	Description
100	Front Flange (Rod End)
101	Rear Flange (Cap End)
102	Front and Rear Flange
Front Flange and Front ASC Combined (See page 9)	

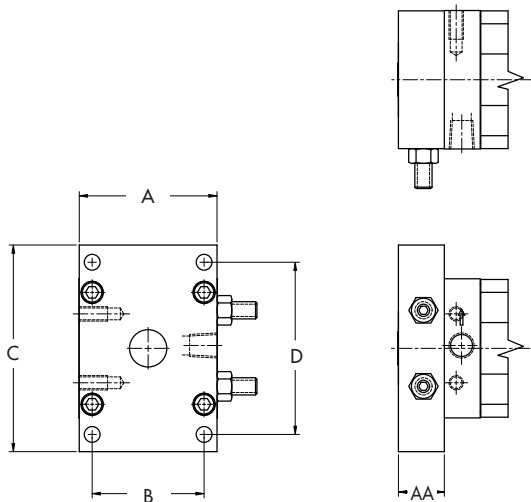
OEM Options- Combination Flange

The flange option can be combined with either head, or the Adjustable Stroke Control housing of the actuator to minimize the overall length of the actuator.



OEM (OT) ACTUATOR WITH INTEGRAL RODHEAD FLANGE OPTION, PORT ON SHORT SIDE.

Combination Flange/Rod Head: Port shown on long side.



Combo Flanges	OEM 1-1/4 (OC) Series	OEM 2-1/2 (OT) Series
A	1.75	3.00
B	1.25	2.44
C	3.00	4.50
D	2.38	3.75
EEØ	0.28	0.34
ASC Flange (AA)	0.67	1.00
Flange Head (BB)	0.67	0.78

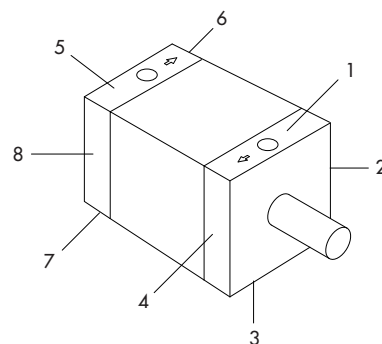
Combination Flange/Adjustable Stroke Control (ASC) Housing:
The ASC housing and the flange are machined from a single piece of aluminum.

Option #	Description
105	Flange Mount integral with the Adjustable Stroke Control Housing Front Mount.
108	Flange Mount integral with the Adjustable Stroke Control Housing Rear Mount.
110	Flange Mount integral with the Rod Head. Flange positioned with the port on the Short side.
111	Flange Mount integral with the Cap Head. Flange positioned with the port on the Short side.
120	Flange Mount integral with the Rod Head. Flange positioned with the port on the Long side.
121	Flange Mount integral with the Cap Head. Flange positioned with the port on the Long side.

OEM Options- Side Angle Mounts

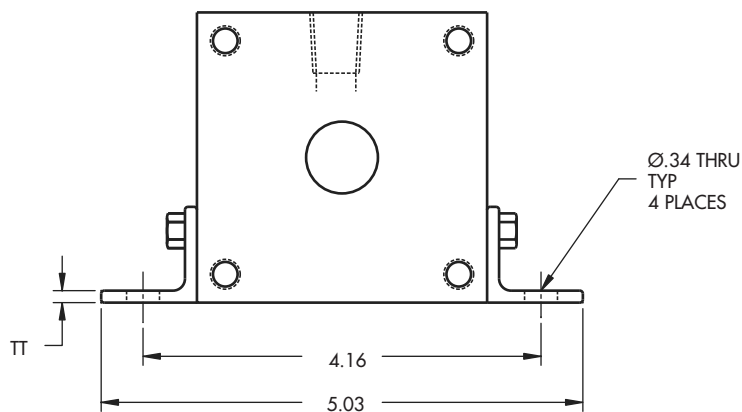
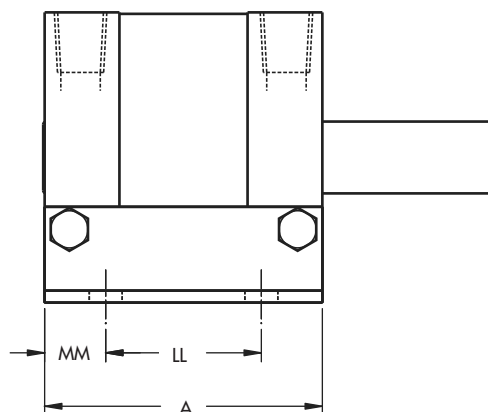
Option #	Description
200	Side Angle Brackets, Mounting Surface 3 & 7
201	Side Angle Brackets, Mounting Surface 2 & 6
202	Side Angle Brackets, Mounting Surface 4 & 8
203	Side Angle Brackets, Mounting Surface 1 & 5

NOTE: Specify the surface to be used for mounting. Example: Option 200 would call out surface 3 & 7 as the mounting surface, Option #201 would call out surface 2 & 6 as the mounting surface.



Mounting Surface Reference Drawing

OEM 2-1/2 Bore (OT) Series



Option 200 Shown in Drawing

NOTE: Side Mounts surface 3 & 7 are standard, but are not shown for clarity. Standard Bottom Mount dimensions shown on page 7.

OEM OT Model	A	LL	MM	TT
61X	2.90	1.63	.638	.125
62X	4.39	3.00	.694	.125
63X	7.42	6.00	.712	.125

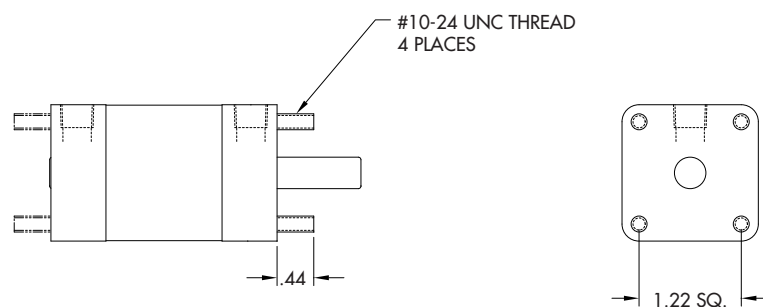
OEM Options- Extended Tie Rods

Option #	Description
300	Extended Tie Rods, Front
301	Extended Tie Rods, Rear
302³	Extended Tie Rods, Front and Rear

NOTE:

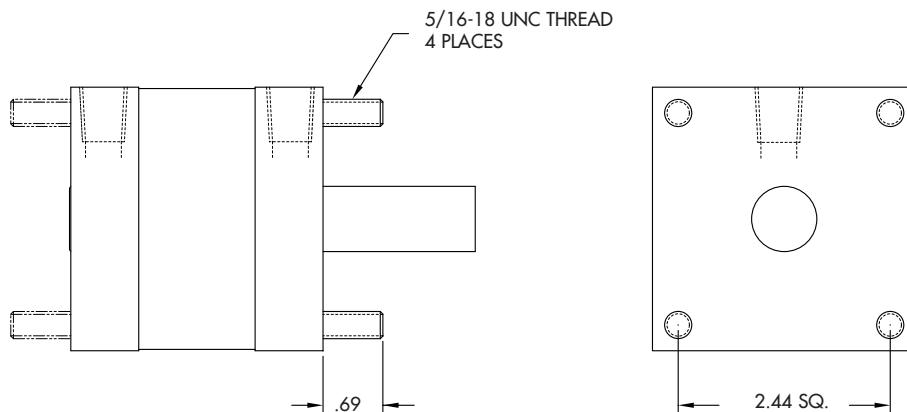
1. Tie rod material (Carbon Steel or Stainless Steel) is determined by the Unit Material selected for the base actuator.
2. The Extended Tie Rod option eliminates the standard front mounts.
3. Option 302 is not available on the OEM 1-1/4" (OC) Series. Consult Factory for other variations of this option.

OEM 1-1/4 Bore (OC) Series



NOTE: Side Mounts surface 3 & 7 are standard, but are not shown for clarity. Standard Bottom Mount dimensions shown on page 4.

OEM 2-1/2 Bore (OT) Series



NOTE: Side Mounts surface 3 & 7 are standard, but are not shown for clarity. Standard Bottom Mount dimensions shown on page 7.

OEM Options- Adjustable Stroke Control (ASC)

The Adjustable Stroke Control (ASC) option allows an actuator to be adjusted to the exact rotational stroke desired. The "ASC" option consists of a shaft mounted steel cam, enclosed in a housing with control screws (see method of operation below). Turning the control screws either extends or limits the amount of rotation. The ends of the control screws impact the cam providing a positive and repeatable end of rotation stop. The ASC option is often specified for applications where the stroke required is not within the rotational tolerance. The standard rotational stroke tolerance of an actuator is $+4^{\circ} / -0^{\circ}$ (i.e.: A 90-degree actuator without ASC will have a rotation of 90-94° with the addition of the ASC option a precise 90° rotation is attainable.).



Option #	Description
400	ASC Cap End, Position 5
401	ASC Rod End, Position 1
402	ASC Cap End, Position 6
403	ASC Rod End, Position 2
404	ASC Cap End, Position 7
405	ASC Rod End, Position 3
406	ASC Cap End, Position 8
407	ASC Rod End, Position 4

NOTE: Contact Factory for other adjusting ranges.

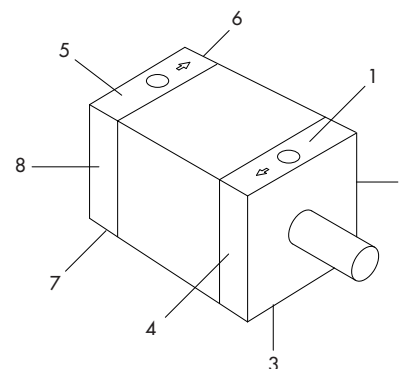
Actuator Rotation	Adjusting Range
*45°	0-45 degrees
90°	0-90 degrees
180°	90-180 degrees
270°	90-270 degrees

* OT Series Only.

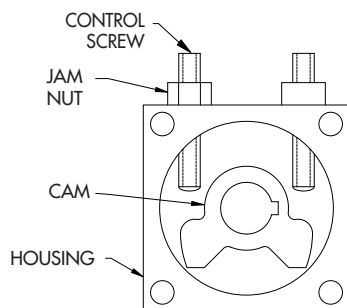
NOTE: Rotations greater than 180° are not fully adjustable with a standard 2 screw adjustable stroke control. Consult factory for greater adjustment range.

Adjustable Stroke Control (ASC) Dimension			
MODEL/Series	(A =max) in.	(B) in.	(C) in. Sq.
OEM 1-1/4 (OC)	1.50	0.67	1.63
OEM 2-1/2 (OT)	3.25	1.00	3.03

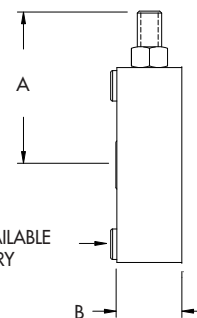
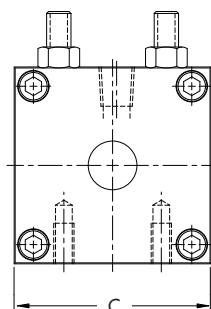
POSITION REFERENCE DRAWING



NOTE: Specify the position to be tapped for adjustment screws. Example: Option 407 would call out position 4 as the adjustment screw location, as depicted in the drawing above.



METHOD OF OPERATION



NOTE: FLUSH AVAILABLE
CONSULT FACTORY

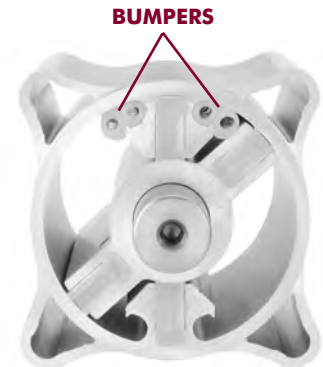
DIMENSIONAL DATA

OEM Options- Urethane Bumpers

Polyurethane BUMPERS absorb kinetic energy and reduces noise at the end of stroke. Actual rotation and repeatability achieved when bumpers are installed will be dependent on Load... Air Pressure... and Speed of Rotation.

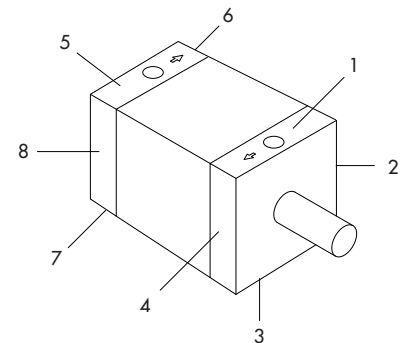
Series	Option #
OEM 1-1/4" (OC)	B00
OEM 2-1/2" (OT)	B00

NOTE: Only 1 end of rotation can be bumped when the 45-degree rotor is ordered.



OEM Options- Side Mounts

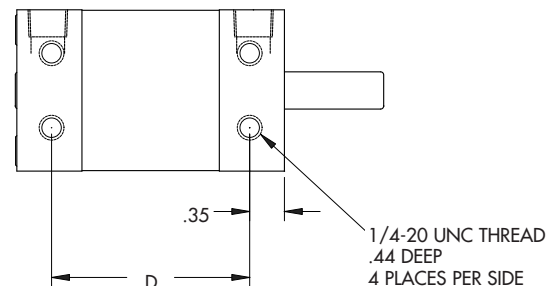
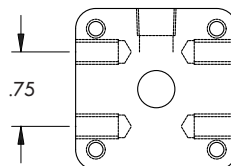
Option #	Description
SIDE MOUNTS, SIDES 3 & 7 STANDARD ON ALL MODELS (Except Opt. 810)	
800	Side Mounts, Sides 1 & 5
801	Side Mounts, Sides 2 & 6
803	Side Mounts, Sides 4 & 8
804	Side Mounts, Sides 2, 4, 6 & 8
806	Side Mounts, Sides 6 & 8
807	Side Mounts, Sides 2 & 4
810	No Side Mounts (removes Sides 3 & 7)



NOTE: Specify the side to be used for mounting. Example: Option 804 would call out sides 2, 4, 6 & 8 as the mounting surfaces, as depicted in the drawings below. Mount sides 3 & 7 are standard on all models (OT, OC) but are not shown for clarity.

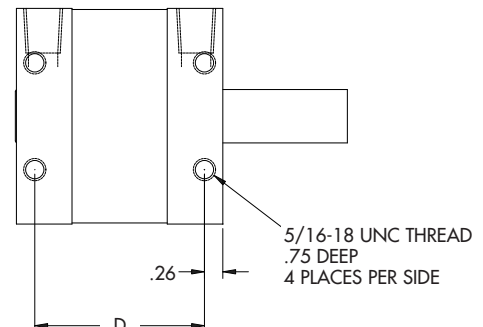
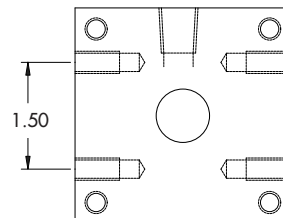
Position Reference Drawing

OEM 1-1/4 Models	D
51X	1.00
52X	1.50
53X	2.00
54X	2.50
56X	4.05



NOTE: Mounts surface 3 & 7 are standard, but are not shown for clarity. Standard Bottom Mount dimensions shown on page 4.

OEM 2-1/2 Models	D
61X	2.38
62X	3.87
63X	6.91



NOTE: Mounts surface 3 & 7 are standard, but are not shown for clarity. Standard Bottom Mount dimensions shown on page 7. Center drill omitted from shaft details for clarity.

OEM Options- Cap Switch Systems

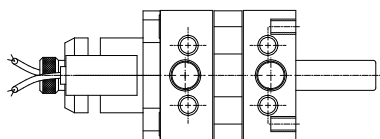
OEM Series Rotary Vane Actuators are available with electronic position sensing switches. The switches have LED lamps that light when in sensing position. If adjusted for end of stroke indication, the LED will remain lit as long as the stroke position is maintained. A small shaft mounted magnet in the switch housing operates the switches (See drawings).



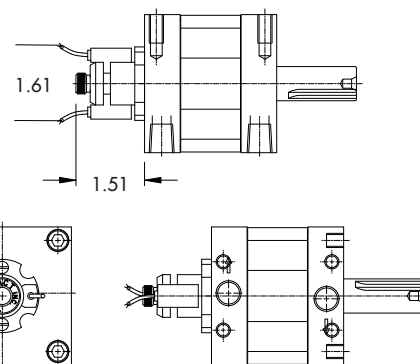
SWITCH SYSTEM WITH 8MM QUICK DISCONNECT



SWITCH SYSTEM WITH 9 FT. LEADS



OEM 1-1/4 BORE (OC) SERIES SWITCHES



OEM 2-1/2 BORE (OT) SERIES SWITCHES

SWITCH PACKAGE (CAP END)							
Includes a Cap End Mounted Switch Ready Housing							
Option #	Switch Type	Function	Lead Type	Switching Voltage	Switching Current	Switching Power	Max. Voltage Drop
A00	Switch Ready No Switches						
A05	PNP/Sourcing	Normally Open Output	22 gauge	6-24 VDC	0.5 Amp Max	N/A	0.5 Volts
A08	NPN/Sinking	Normally Open Output	22 gauge	6-24 VDC	0.5 Amp Max	N/A	0.5 Volts
A02	AC/DC Reed	SPST Normally Open	22 gauge	5-120 VDC/VAC 50/60 Hz	0.5 Amp Max 0.005 Amp min.	10 watts Max	3.5 Volts
A25	PNP/Sourcing	Normally Open Output	8mm Type - B QD	6-24VDC	0.5 Amp Max	N/A	0.5 Volts
A28	NPN/Sinking	Normally Open Output	8mm Type - B QD	6-24VDC	0.5 Amp Max	N/A	0.5 Volts
A22	AC/DC Reed	SPST Normally Open	8mm Type - B QD	5-120 VDC/VAC 50/60 Hz	0.5 Amp Max 0.005 Amp min.	10 watts Max	3.5 Volts

Caution: Switches will be permanently damaged if operated without a load. Consult factory if lead length will exceed 20 ft.

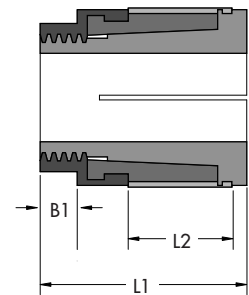
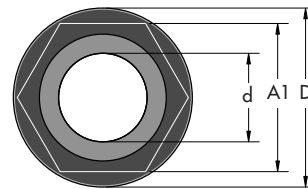
OEM Options- Trantorque®

Trantorque

Trantorque keyless shaft couplings eliminates:

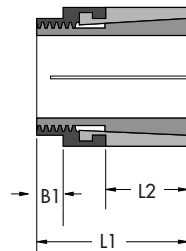
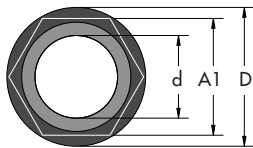
- The need for keys, keyways and setscrews.
- Simplifies synchronization.
- Allows for infinite radial adjustments.
- Mounts hubless devices.

The Trantorque coupling uses 2 opposing tapers that expand into the OD and contract on the ID to attach and hold shaft loads.

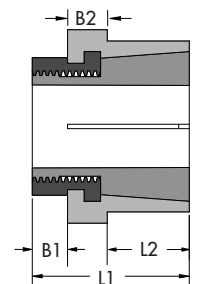
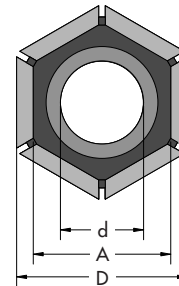


NON-TRAVERSING

Style	Trantorque Series		Part #	Actuator Shaft Diameter (d)	Component Bore (D)	Max. Transmissible		Dimensions					
						Tq.	Thrust	L1	L2	A1	A2	B1	B2
Non-Traversing	Imperial Mini	OEM Series 1-1/4" Bore	6980109	3/8"	3/4"	175 in.lbs.	648 lbs.	1-3/16"	7/16"	5/8"	–	1/8"	–
	Imperial Series	OEM Series 2-1/2" Bore	6980160	3/4"	1-1/2"	1750 in.lbs.	3080 lbs.	1-21/32"	11/16"	1-1/4"	1-1/2"	5/16"	5/16"



MINI SERIES

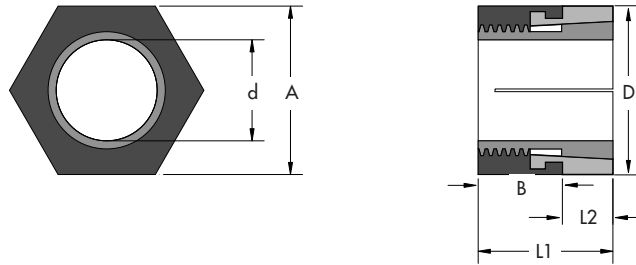


GT SERIES

Style	Trantorque Series		Part #	Actuator Shaft Diameter (d)	Component Bore (D)	Max. Transmissible		Dimensions					
						Tq.	Thrust	L1	L2	A1	A2	B1	B2
Standard Series	Imperial Mini	OEM Series 1-1/4" Bore	6202109	3/8"	3/4"	250 in.lbs.	925 lbs.	7/8"	7/16"	5/8"	–	1/8"	–
	Imperial Series	OEM Series 2-1/2" Bore	6202160	3/4"	1-1/2"	2500 in.lbs.	4400 lbs.	1-1/2"	3/4"	1-1/4"	1-1/2"	5/16"	5/16"

Style	Trantorque Series		Part #	Actuator Shaft Diameter (d)	Component Bore (D)	Max. Transmissible		Dimensions					
						Tq.	Thrust	L1	L2	A1	A2	B1	B2
Stainless Series	Imperial Mini	OEM Series 1-1/4" Bore	6990109	3/8"	3/4"	75 in.lbs.	280 lbs.	7/8"	7/16"	5/8"	–	1/8"	–
	Imperial Series	OEM Series 2-1/2" Bore	6990160	3/4"	1-1/2"	750 in.lbs.	1320 lbs.	1-1/2"	3/4"	1-1/4"	1-1/2"	5/16"	5/16"

OEM- Trantorque® (cont.)



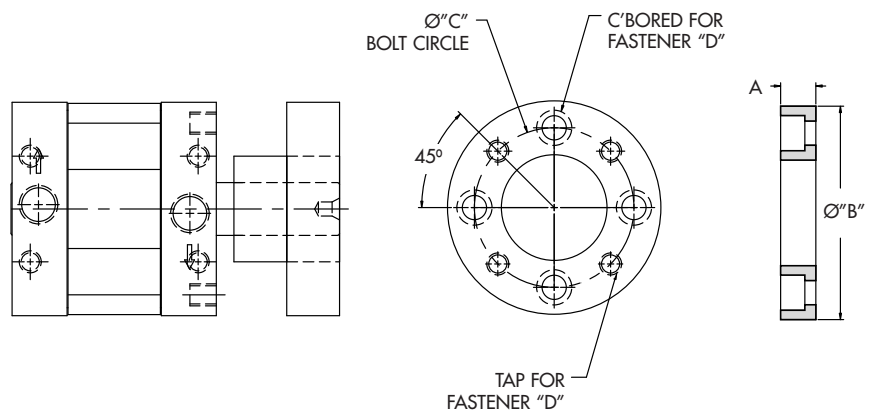
SHORT SERIES

Style	Trantorque Series		Part #	Actuator Shaft Diameter (d)	Component Bore (D)	Max. Transmissible		Dimensions			
						Tq.	Thrust	L1	L2	A	B
Short Series	Imperial Mini	OEM Series 1-1/4" Bore	6940109	3/8"	3/4"	250 in.lbs.	925 lbs.	5/8"	1/4"	3/4"	3/8"
	Imperial Series	OEM Series 2-1/2" Bore	6940160	3/4"	1-1/2"	2500 in.lbs.	4400 lbs.	1-1/4"	1/2"	1-1/2"	3-4"

OEM Options- Hub Adapter

This option provides an alternative to the conventional output shaft. The Hub Adapter option allows for easy mounting of grippers, tooling, actuators, cylinders and other end effectors that require a flat mounting surface.

The Hub is manufactured of aluminum with 4 counter bored through holes on one side and threaded holes on other. Trantorque (see Trantorque section) is used in mounting of the Hub Adapter to the actuator shaft. This attachment method provides infinite hub/hole orientation.



TRANTORQUE WITH ADAPTOR HUB

Option #	Description
M10	W/Mild Steel Trantorque
M20	W/Stainless Steel Trantorque

Hub Adapter Dimensions	OEM 1-1/4 (OC) Series	OEM 2-1/2 (OT) Series
A	0.44"	0.75"
B	1.56"	2.50"
C	1.16"	2.00"
D	#10-24	1/4-20

NOTE: Contact Factory for other hub diameters, bolt hole patterns, etc.

Special Conditions and Limited Warranty

Determination of the suitability of any information or product for the application contemplated by any user or the manner of that use is the sole responsibility of the user.

Compact Automation Products, LLC reserves the right to improve or change designs without notice.

All orders are subject to acceptance by the factory sales department.

Compact Automation Products, LLC agrees to repair or replace to the original purchaser any standard parts or products for a period of 12 months from date of shipment which Compact Automation Products, LLC determines upon inspection to be defective in workmanship or material. Wear components including but not limited to seals and bearings are excluded from this warranty.

Under no circumstance may merchandise be returned without written authorization from the factory.

This warranty is void in the event the product has been tampered with, altered, or serviced by unauthorized personnel.

Compact Automation Products, LLC's total responsibility for any claims, damages, losses or liabilities related to the product covered thereunder shall not exceed the purchase price of such product. In no event shall Compact Automation Products, LLC be liable for any special, indirect, incidental or consequential damages of any character, including but not limited to loss of use of productive facilities or equipment, lost profit, property damage, transportation, installation or removal or lost production whether suffered by purchaser or third party. Compact Automation Products, LLC disclaims all liability for any and all cost, claims demands, charges, expenses, and other damages, either direct or indirect, incident to all property damage arising out of any cause of action based on strict liability. This warranty gives you specific legal rights and you may have other rights, which vary from state to state.