

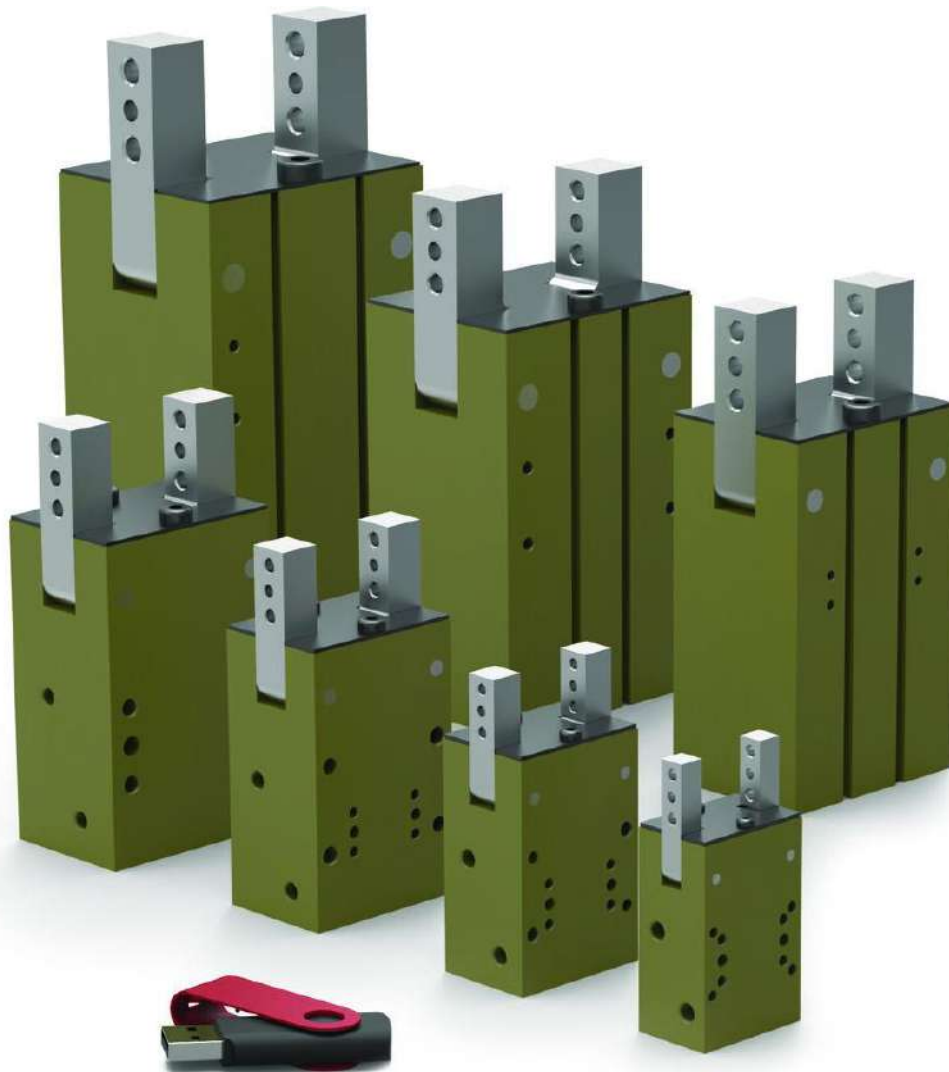
# Angular Grippers

01/30/2025



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# Angular Grippers

01/30/2025

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.

## Table of Contents

Angular Grippers

GR-ANG-1

## Table of Contents (continued)

# ANGULAR GRIPPERS

## Angular Grippers | Product Overview

| Model                   |                                                                                   | Stroke Range           | Grip Force Range      | Operating Environment | Special Features                                                    | Page GR-ANG-# |
|-------------------------|-----------------------------------------------------------------------------------|------------------------|-----------------------|-----------------------|---------------------------------------------------------------------|---------------|
| CT                      |  | 90° per Jaw            | 272-651<br>[61-146]   | IP43                  | 180 degree Wide Jaw Opening Angle.                                  | 3             |
| DCT                     |  | 90° per Jaw            | 32-157<br>[7.2-35]    | IP43                  | 180 degree Wide Jaw Opening, spring assist.<br><b>DIRECTCONNECT</b> | 3             |
| RA (CAM)<br>RA (TOGGLE) |  | 15° per Jaw            | 71-801<br>[16-180]    | IP43                  | Low Cost, small compact Gripper. Rugged Applications.               | 13            |
| RUA                     |  | 31.8° - 38.2°<br>Total | 384-7911<br>[86-1778] | IP54 Using Purge Port | High Force Gripping for Harsh & Rugged Applications. Spring Assist. | 27            |

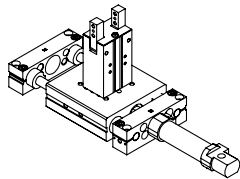
# ANGULAR GRIPPERS

## Angular Grippers | DIRECTCONNECT™ Mounting Compatibility Chart

### **DIRECTCONNECT** Modular Direct Mounting System without Adapter Plates

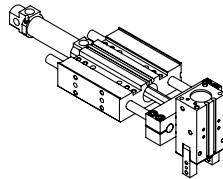
Products can be mounted in multiple positions. Refer to datasheet for complete info.

#### Slide to Gripper



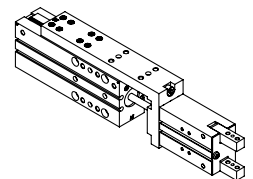
DLB Base Slide to  
DCT Angular Gripper

#### Slide to Gripper



DLT Thruster Slide to  
DCT Angular Gripper

#### Slide to Gripper



DLM Thruster Slide to  
DCT Angular Gripper

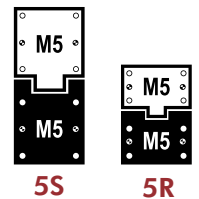
## **DIRECTCONNECT**™

## 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.



| Catalog Models     |              | Grippers          |        |
|--------------------|--------------|-------------------|--------|
|                    |              | DCT-12,<br>16, 20 | DCT-25 |
| Base<br>Slides     | DLB-06,08    | 3R                |        |
|                    | DLB-10,12,16 |                   | 5R     |
|                    | DLB-20,25    |                   |        |
| Thruster<br>Slides | DLT-06,08    | 3R                |        |
|                    | DLT-10,12,16 | 3R                | 5R     |
|                    | DLT-20,25    |                   | 5R     |
|                    | DLM-07       | 3R                |        |
|                    | DLM-9,12     | 3R                | 5R     |

# CT/DCT & CT-RE/DCT-RE SERIES

## Angular Grippers | Features and Benefits | How To Order

### Features:

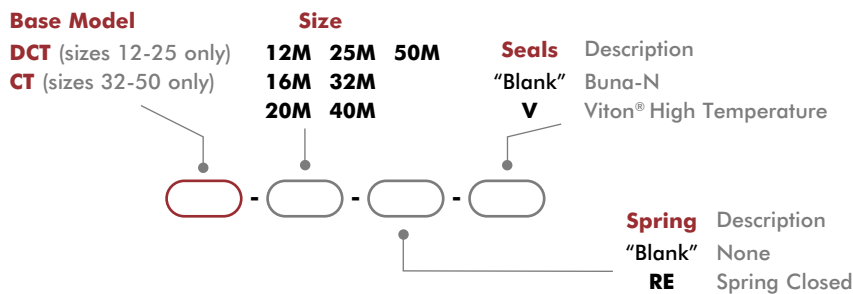
- 180° angular gripper jaw opening for direct feed systems
- Shielded design for working in dirty environments
- Spring assist option maintains grip in case of air pressure loss
- Adjustable 0 to 180° opening angle option.
- Side and bottom gripper mounting
- Multiple air ports, side and top air ports for easy installation

### Applications:

- In-line conveying applications
- OEM pick and place machines
- End-of-arm tooling



## How To Order



## Accessories

| Sensor Accessories                                    | Model Numbers | Part Number | Qty/Unit |
|-------------------------------------------------------|---------------|-------------|----------|
| NPN Magneto Resistive Sensor with M8 Quick Disconnect | All Models    | OHSN-017    | 1-2      |
| PNP Magneto Resistive Sensor with M8 Quick Disconnect | All Models    | OHSP-017    | 1-2      |
| Inductive Sensor Mounting Kit (mounts 2 sensors)      | See Datasheet |             | 1        |
| 4mm NPN Inductive Sensor with M8 Quick Disconnect*    | 16M, 20M      | OISN-014    | 1-2      |
| 4mm PNP Inductive Sensor M8 with Quick Disconnect*    | 16M, 20M      | OISP-014    | 1-2      |
| M8 NPN Inductive Sensor with M8 Quick Disconnect*     | 25M, 32M      | OISN-011    | 1-2      |
| M8 PNP Inductive Sensor with M8 Quick Disconnect*     | 25M, 32M      | OISP-011    | 1-2      |
| M12 NPN Inductive Sensor with M12 Quick Disconnect*   | 40M, 50M      | OISN-017    | 1-2      |
| M12 PNP Inductive Sensor with M12 Quick Disconnect*   | 40M, 50M      | OISP-017    | 1-2      |
| M8 Quick Disconnect 2 Meter Cable Length*             | All Models    | CABL-010    | 1-2      |
| M8 Quick Disconnect 5 Meter Cable Length*             | All Models    | CABL-013    | 1-2      |
| M12 Quick Disconnect 2 Meter Cable Length*            | All Models    | CABL-014    | 1-2      |
| M12 Quick Disconnect 5 Meter Cable Length*            | All Models    | CABL-018    | 1-2      |

| Pneumatic Accessories                             | Model Numbers           | Part Number | Qty/Unit |
|---------------------------------------------------|-------------------------|-------------|----------|
| Adjustable Flow Control-M5 Elbow-6mm OD Push-in   | 12M, 16M, 20M, 25M, 32M | VLVF-008    | 1-2      |
| Adjustable Flow Control-G1/8 Elbow-6mm OD Push-in | 40M, 50M                | VLVF-005    | 1-2      |

\* Sensor and cable sold separately.

# CT/DCT & CT-RE/DCT-RE SERIES

## Angular Grippers | Technical Specifications

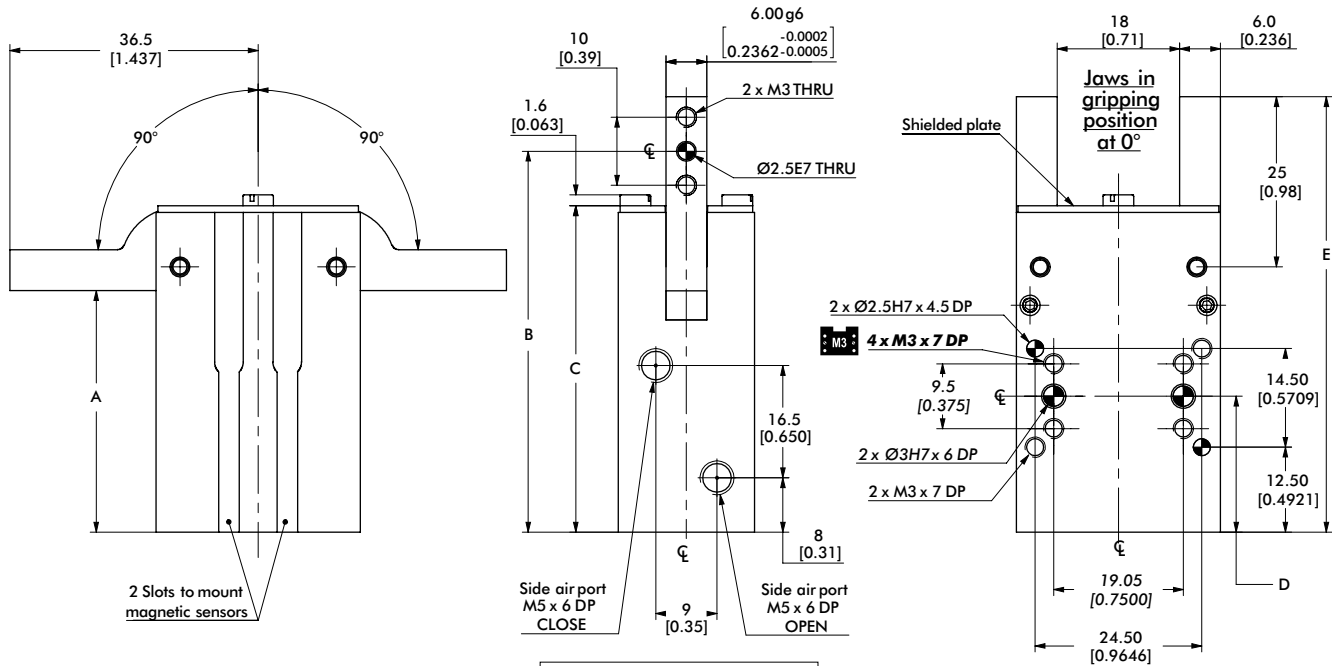
| Specifications                                | Units        | 12M                                   | 12M-RE         | 16M             | 16M-RE         | 20M             | 20M-RE         | 25M             | 25M-RE         |
|-----------------------------------------------|--------------|---------------------------------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|
| Total Rated Grip Force<br>F @ 100 psi [7 bar] | N<br>[lb]    | 32<br>[7.2]                           | 40<br>[9]      | 70<br>[16]      | 87<br>[19]     | 112<br>[25]     | 141<br>[32]    | 157<br>[35]     | 199<br>[45]    |
| Stroke (degrees per finger)                   |              | 90° per finger (180° total)           |                |                 |                |                 |                |                 |                |
| Weight                                        | kg<br>[lbs]  | 0.09<br>[0.20]                        | 0.12<br>[0.26] | 0.16<br>[0.35]  | 0.20<br>[0.44] | 0.28<br>[0.62]  | 0.33<br>[0.73] | 0.49<br>[1.08]  | 0.57<br>[1.26] |
| Pressure Range w/o Spring                     | bar [psia]   | 3-7 [40-100] <b>CT/DCT</b>            |                |                 |                |                 |                |                 |                |
| Pressure Range w/ Spring                      | bar [psi]    | 4-7 [60-100] <b>CT-RE/DCT-RE</b>      |                |                 |                |                 |                |                 |                |
| Ingress Protection Class (IP)                 |              | IP43                                  |                |                 |                |                 |                |                 |                |
| Displacement                                  | cm³<br>[in³] | 1.92<br>[0.117]                       |                | 4.12<br>[0.251] |                | 7.92<br>[0.483] |                | 14.9<br>[0.909] |                |
| Temperature Range (Buna-N seals)              | °C [°F]      | -35°~80° [-30°~180°]                  |                |                 |                |                 |                |                 |                |
| Temperature Range (Viton® seals)              | °C [°F]      | -30°~150° [-20°~300°]                 |                |                 |                |                 |                |                 |                |
| Actuation (open)                              | sec          | 0.06                                  | 0.08           | 0.13            | 0.15           | 0.16            | 0.20           | 0.21            | 0.25           |
| Actuation (close)                             | sec          | 0.06                                  | 0.05           | 0.13            | 0.12           | 0.16            | 0.14           | 0.21            | 0.19           |
| Accuracy                                      | mm [in]      | ±0.07 [±0.0028]                       |                |                 |                | ±0.08 [±0.003]  |                |                 |                |
| Repeatability                                 | mm [in]      | ±0.05 [±0.002]                        |                |                 |                |                 |                |                 |                |
| Valve to Actuate Double Acting                |              | 4-way, 2-position <b>CT/DCT</b>       |                |                 |                |                 |                |                 |                |
| Valve to Actuate Double Acting Spring Assist  |              | 4-way, 2-position <b>CT-RE/DCT-RE</b> |                |                 |                |                 |                |                 |                |
| Valve to Actuate Single Acting                |              | 3-way, 2-position <b>CT-RE/DCT-RE</b> |                |                 |                |                 |                |                 |                |

| Specifications                                | Units        | 32M                                   | 32M-RE         | 40M                | 40M-RE         | 50M            | 50M-RE         |
|-----------------------------------------------|--------------|---------------------------------------|----------------|--------------------|----------------|----------------|----------------|
| Total Rated Grip Force<br>F @ 100 psi [7 bar] | N<br>[lb]    | 272<br>[61]                           | 353<br>[79]    | 446<br>[100]       | 592<br>[133]   | 651<br>[146]   | 893<br>[201]   |
| Stroke (degrees per finger)                   |              | 90° per finger (180° total)           |                |                    |                |                |                |
| Weight                                        | kg<br>[lbs]  | 0.72<br>[1.59]                        | 0.83<br>[1.83] | 1.18<br>[2.60]     | 1.39<br>[3.06] | 1.82<br>[4.01] | 2.21<br>[4.87] |
| Pressure Range w/o Spring                     | bar [psi]    | 3-7 [40-100] <b>CT/DCT</b>            |                |                    |                |                |                |
| Pressure Range w/ Spring                      | bar [psi]    | 4-7 [60-100] <b>CT-RE/DCT-RE</b>      |                |                    |                |                |                |
| Ingress Protection Class (IP)                 |              | IP43                                  |                |                    |                |                |                |
| Displacement                                  | cm³<br>[in³] | 28.6<br>[1.745]                       |                | 52<br>[3.173]      |                | 92<br>[5.614]  |                |
| Temperature Range (Buna-N seals)              | °C [°F]      | -35°~80° [-30°~180°]                  |                |                    |                |                |                |
| Temperature Range (Viton® seals)              | °C [°F]      | -30°~150° [-20°~300°]                 |                |                    |                |                |                |
| Actuation (open)                              | sec          | 0.29                                  | 0.35           | 0.41               | 0.47           | 0.46           | 0.54           |
| Actuation (close)                             | sec          | 0.29                                  | 0.26           | 0.41               | 0.38           | 0.46           | 0.42           |
| Accuracy                                      | mm [in]      | ±0.08<br>[±0.003]                     |                | ±0.09<br>[±0.0036] |                |                |                |
| Repeatability                                 | mm [in]      | ±0.05 [±0.002]                        |                |                    |                |                |                |
| Valve to Actuate Double Acting                |              | 4-way, 2-position <b>CT/DCT</b>       |                |                    |                |                |                |
| Valve to Actuate Double Acting Spring Assist  |              | 4-way, 2-position <b>CT-RE/DCT-RE</b> |                |                    |                |                |                |
| Valve to Actuate Single Acting                |              | 3-way, 2-position <b>CT-RE/DCT-RE</b> |                |                    |                |                |                |

# DCT-12, -12-RE

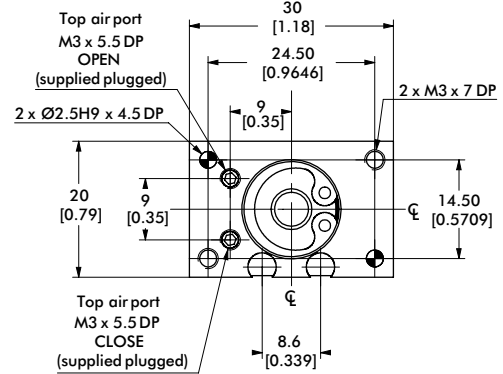
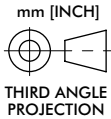
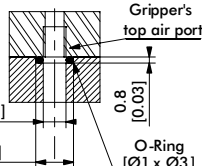


## Angular Grippers | Dimensions and Technical Specifications



NOTE: Jaws have to be designed for a 0° gripping position (parallel jaws). Jaws will close 1.5° past parallel. To limit shocks at the end of an opening or closing stroke, it is highly recommended to design jaws with minimal inertia (as light and short as possible). Flow Controls make it possible to reduce the rotation speed and are highly recommended.

Our grippers are supplied with open side air ports and top air ports plugged. When operating top air ports, produce manifold sealing as shown.



| Model     | A            | B              | C         | D              | E         |
|-----------|--------------|----------------|-----------|----------------|-----------|
| DCT-12    | 35.5 [1.398] | 56.00 [2.2047] | 48 [1.89] | 20.00 [0.7874] | 64 [2.52] |
| DCT-12-RE | 51.5 [2.028] | 72.00 [2.8346] | 64 [2.52] | 35.00 [1.3780] | 80 [3.15] |

Dimensions in mm [in]

### Mounting Accessories

Adjustment Stop Kit (1 shielded plate, 1 stop)

### Order #

KP-DCT12-BR

### Seal Repair Kits

Buna-N Seal Repair Kit

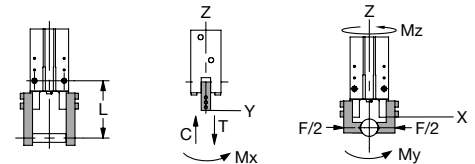
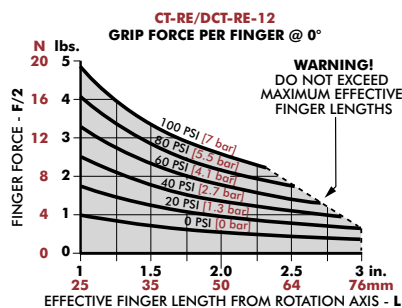
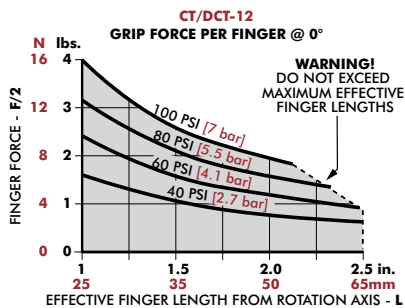
Viton® Seal Repair Kit

### Order #

SLKT-159

SLKT-159V

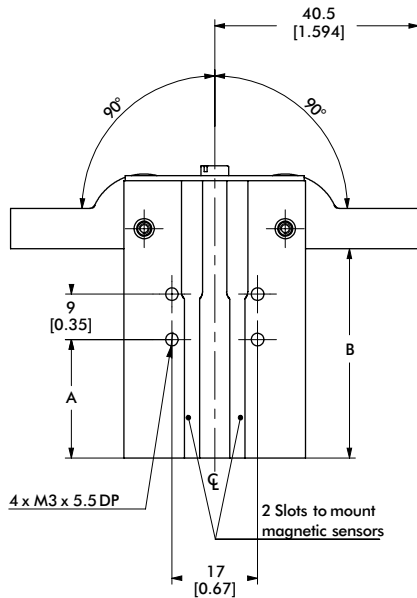
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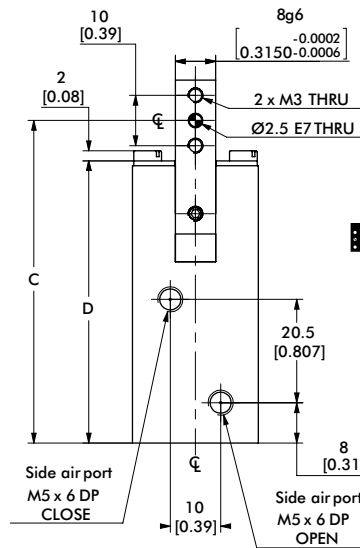
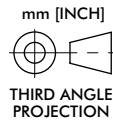
|                                     | Static             |
|-------------------------------------|--------------------|
| Maximum Tensile <b>T</b>            | 47 N [11 lbs]      |
| Maximum Compressive <b>C</b>        | 47 N [11 lbs]      |
| Maximum Moment <b>M<sub>x</sub></b> | 1.1 Nm [10 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 1.1 Nm [10 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 1.1 Nm [10 in-lbs] |

\*Capacities are per set of jaws and are not simultaneous

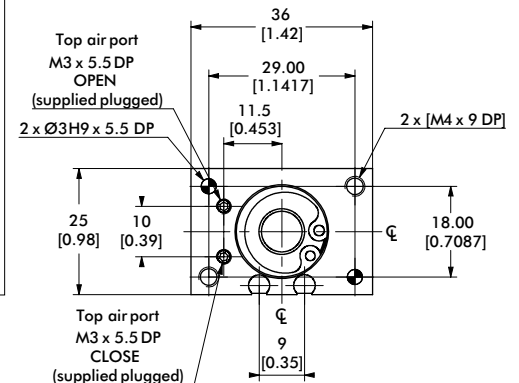
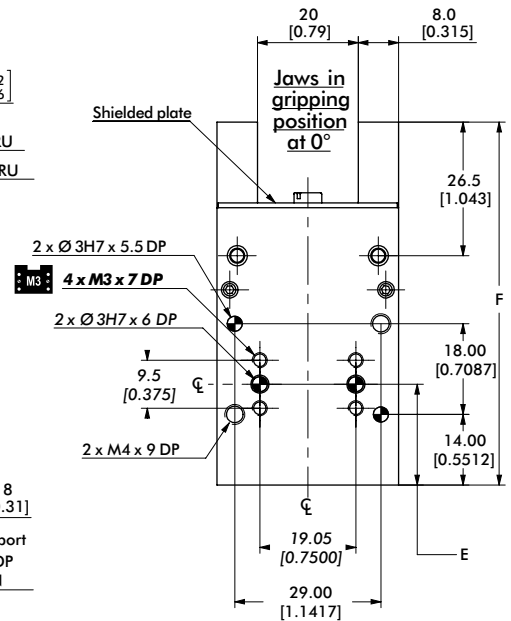
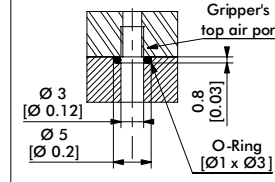
## Angular Grippers | Dimensions and Technical Specifications



NOTE: Jaws have to be designed for a 0° gripping position (parallel jaws). Jaws will close 1.5° past parallel. To limit shocks at the end of an opening or closing stroke, it is highly recommended to design jaws with minimal inertia (as light and short as possible). Flow Controls make it possible to reduce the rotation speed and are highly recommended.



Our grippers are supplied with open side air ports and top air ports plugged. When operating top air ports, produce manifold sealing as shown.



| Model     | A               | B               | C                 | D            | E                 | F            |
|-----------|-----------------|-----------------|-------------------|--------------|-------------------|--------------|
| DCT-16    | 23.5<br>[0.925] | 41.5<br>[1.634] | 64.00<br>[2.5197] | 56<br>[2.20] | 20.00<br>[0.7874] | 72<br>[2.83] |
| DCT-16-RE | 38.5<br>[1.516] | 56.5<br>[2.224] | 79.00<br>[3.1102] | 71<br>[2.80] | 35.00<br>[1.3780] | 87<br>[3.43] |

Dimensions in mm [in]

### Mounting Accessories

Inductive Sensor Mounting Kit (mounts 2 sensors)

Adjustment Stop Kit (1 shielded plate, 1 stop)

Order #

SDCT-16-20

KP-DCT16-BR

### Seal Repair Kits

Buna-N Seal Repair Kit

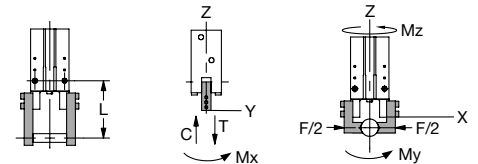
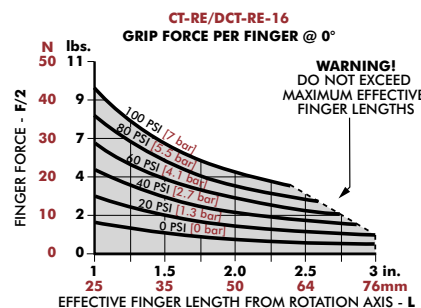
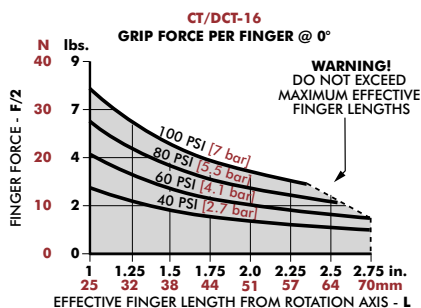
Viton® Seal Repair Kit

Order #

SLKT-160

SLKT-160V

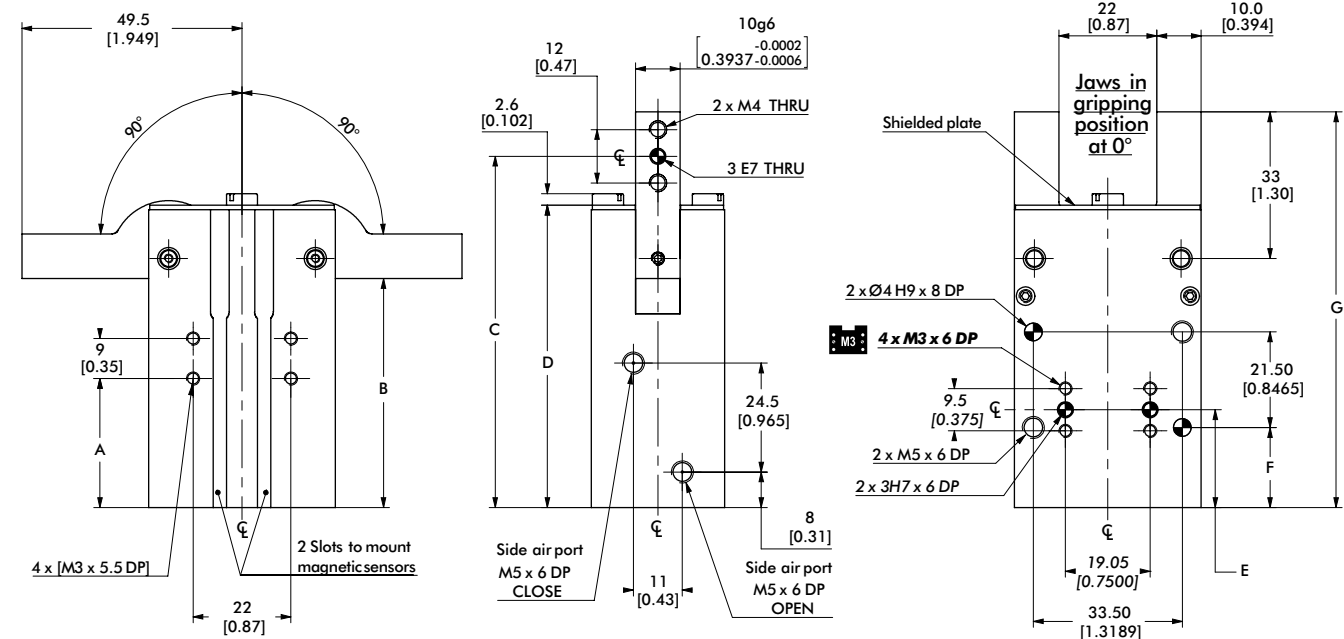
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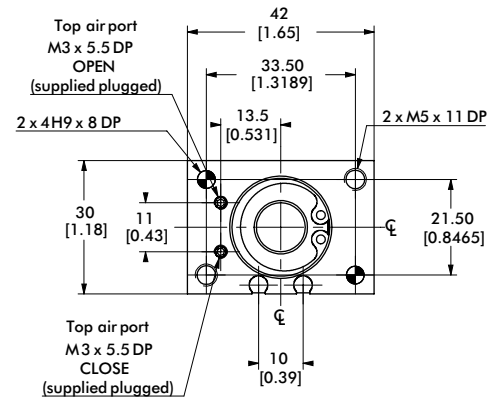
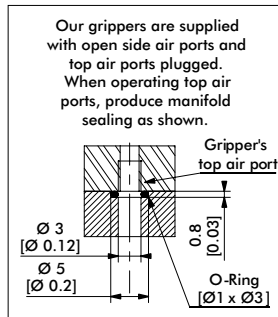
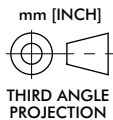
| Static                              |                    |
|-------------------------------------|--------------------|
| Maximum Tensile <b>T</b>            | 90 N [20 lbs]      |
| Maximum Compressive <b>C</b>        | 90 N [20 lbs]      |
| Maximum Moment <b>M<sub>x</sub></b> | 2.9 Nm [26 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 2.9 Nm [26 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 2.9 Nm [26 in-lbs] |

\*Capacities are per set of jaws and are not simultaneous

## Angular Grippers | Dimensions and Technical Specifications



NOTE: Jaws have to be designed for a 0° gripping position (parallel jaws). Jaws will close 1.5° past parallel. To limit shocks at the end of an opening or closing stroke, it is highly recommended to design jaws with minimal inertia (as light and short as possible). Flow Controls make it possible to reduce the rotation speed and are highly recommended.

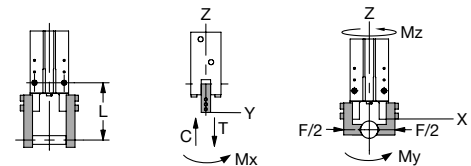
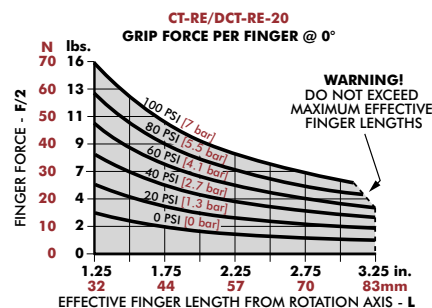
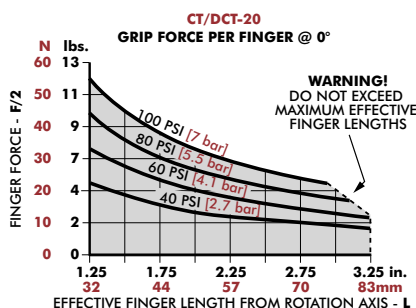


| Model        | A            | B               | C                 | D            | E                 | F                 | G             |
|--------------|--------------|-----------------|-------------------|--------------|-------------------|-------------------|---------------|
| DCT-20       | 29<br>[1.14] | 51.5<br>[2.028] | 79.00<br>[3.1102] | 68<br>[2.68] | 22.00<br>[0.8661] | 18.00<br>[0.7087] | 89<br>[3.50]  |
| DCG/CT-20-RE | 47<br>[1.85] | 66.5<br>[2.618] | 94.00<br>[3.7008] | 83<br>[3.27] | 39.00<br>[1.5354] | 20.00<br>[0.7874] | 104<br>[4.09] |

Dimensions in mm [in]

| Mounting Accessories                             | Order #     |
|--------------------------------------------------|-------------|
| Inductive Sensor Mounting Kit (mounts 2 sensors) | SDCT-16-20  |
| Adjustment Stop Kit (1 shielded plate, 1 stop)   | KP-DCT20-BR |
| Seal Repair Kits                                 | Order #     |
| Buna-N Seal Repair Kit                           | SLKT-161    |
| Viton® Seal Repair Kit                           | SLKT-161V   |

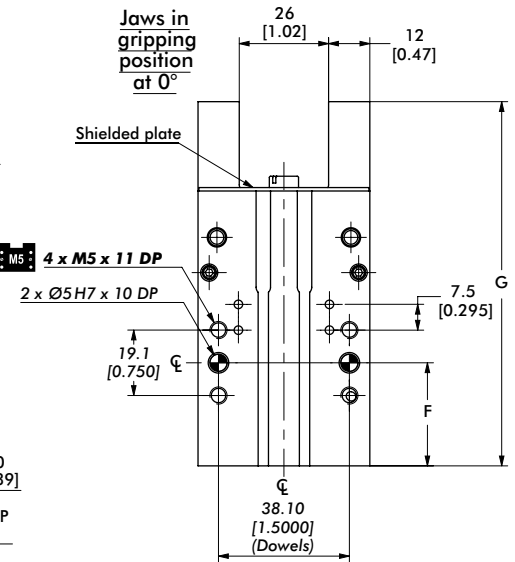
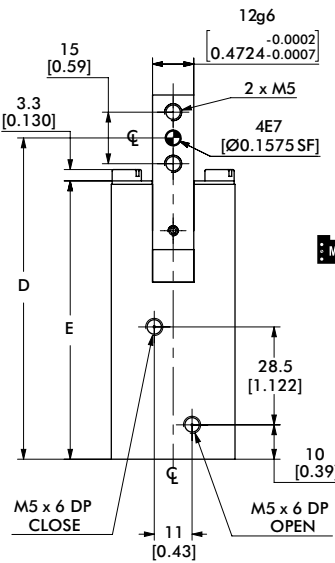
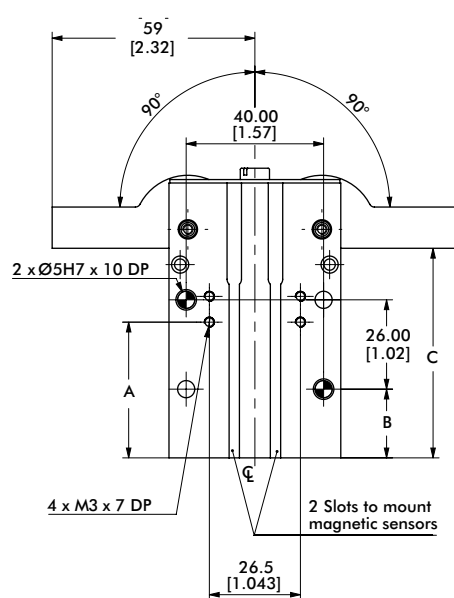
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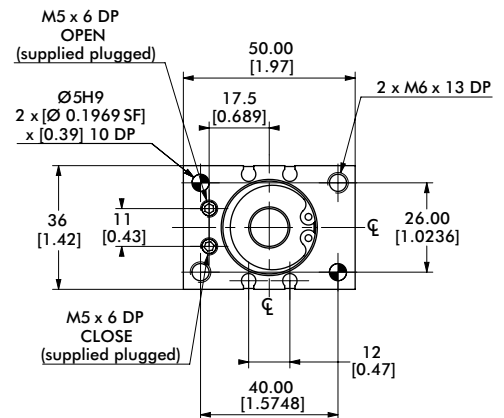
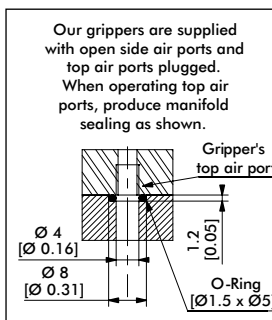
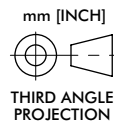
| Static                              |                  |
|-------------------------------------|------------------|
| Maximum Tensile <b>T</b>            | 150 N [34 lbs]   |
| Maximum Compressive <b>C</b>        | 150 N [34 lbs]   |
| Maximum Moment <b>M<sub>x</sub></b> | 6 Nm [53 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 6 Nm [53 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 6 Nm [53 in-lbs] |

\*Capacities are per set of jaws and are not simultaneous

## Angular Grippers | Dimensions and Technical Specifications



NOTE: Jaws have to be designed for a 0° gripping position (parallel jaws). Jaws will close 1.5° past parallel. To limit shocks at the end of an opening or closing stroke, it is highly recommended to design jaws with minimal inertia (as light and short as possible). Flow Controls make it possible to reduce the rotation speed and are highly recommended.



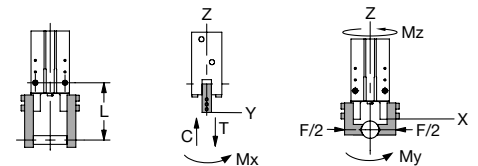
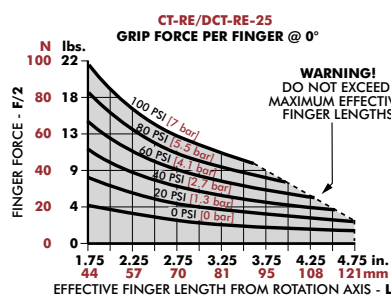
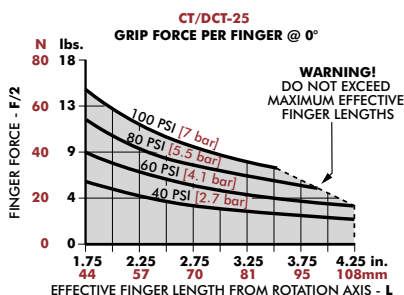
| Model     | A               | B               | C            | D                  | E             | F                 | G             |
|-----------|-----------------|-----------------|--------------|--------------------|---------------|-------------------|---------------|
| DCT-25    | 39.5<br>[1.555] | 20.00<br>[0.79] | 61<br>[2.40] | 93.50<br>[3.6811]  | 81<br>[3.19]  | 30.00<br>[1.1811] | 106<br>[4.17] |
| DCT-25-RE | 60.5<br>[2.382] | 25.00<br>[0.98] | 82<br>[3.23] | 114.50<br>[4.5079] | 102<br>[4.02] | 51.00<br>[2.0079] | 127<br>[5.00] |

Dimensions in mm [in]

| Mounting Accessories                             | Order #     |
|--------------------------------------------------|-------------|
| Inductive Sensor Mounting Kit (mounts 2 sensors) | SDCT-25-32  |
| Adjustment Stop Kit (1 shielded plate, 1 stop)   | KP-DCT25-BR |

| Seal Repair Kits       | Order #   |
|------------------------|-----------|
| Buna-N Seal Repair Kit | SLKT-162  |
| Viton® Seal Repair Kit | SLKT-162V |

## Loading Information

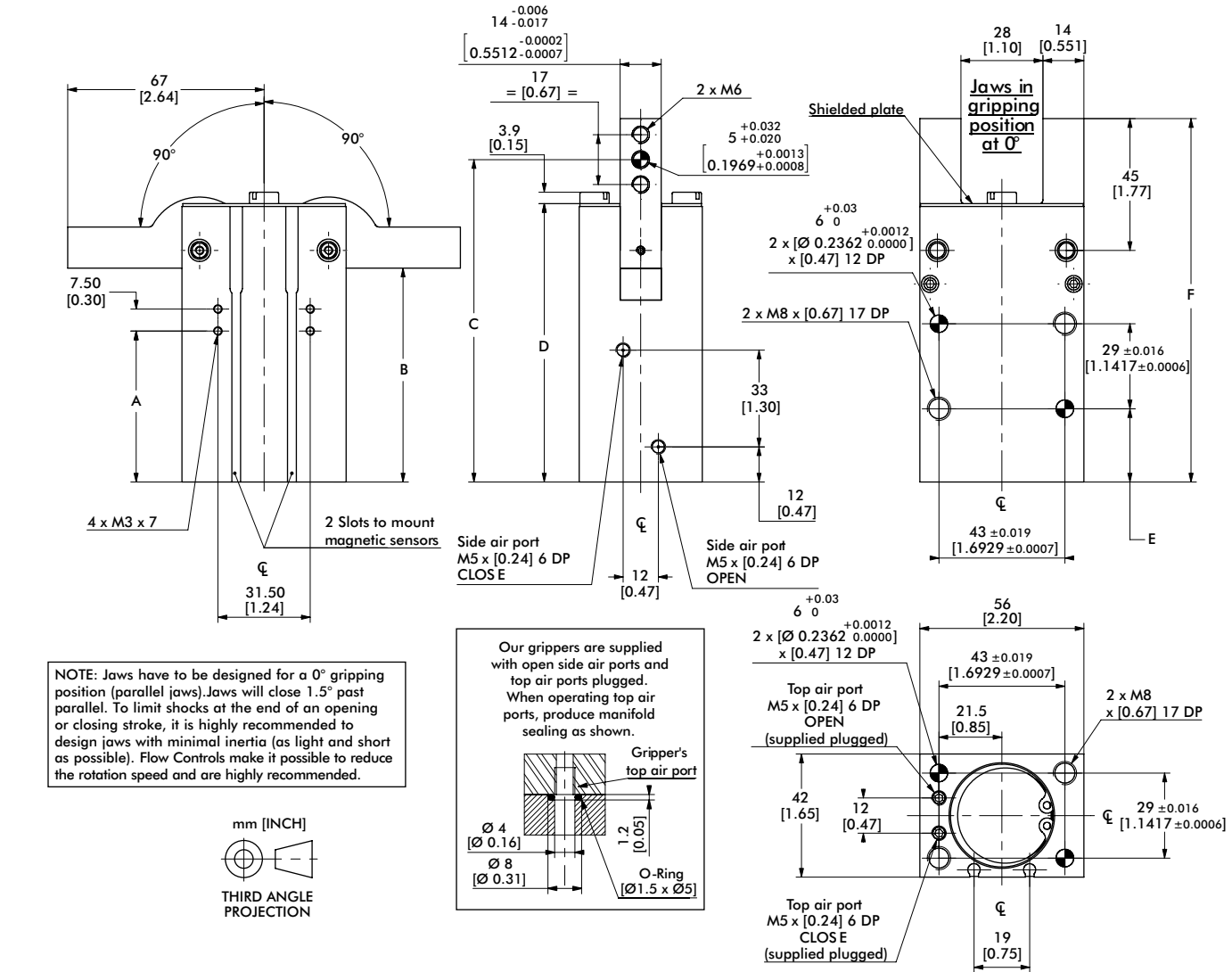


| Static                              |                   |
|-------------------------------------|-------------------|
| Maximum Tensile <b>T</b>            | 205 N [46 lbs]    |
| Maximum Compressive <b>C</b>        | 205 N [46 lbs]    |
| Maximum Moment <b>M<sub>x</sub></b> | 10 Nm [89 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 10 Nm [89 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 10 Nm [89 in-lbs] |

\*Capacities are per set of jaws and are not simultaneous

# CT-32/ -32-RE

## Angular Grippers | Dimensions and Technical Specifications

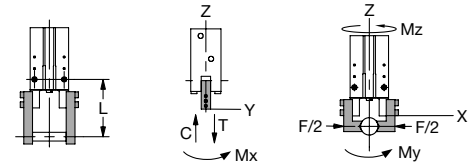
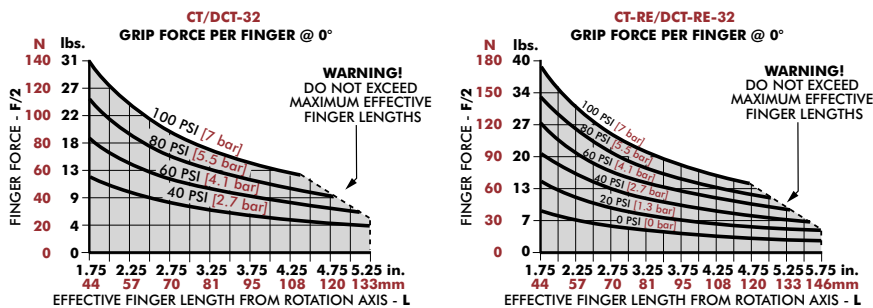


| Model    | A               | B            | C               | D             | E              | F             |
|----------|-----------------|--------------|-----------------|---------------|----------------|---------------|
| CT-32    | 51.50<br>[2.03] | 73<br>[2.87] | 110<br>[4.3307] | 95<br>[3.74]  | 25<br>[0.9843] | 124<br>[4.88] |
| CT-32-RE | 72.50<br>[2.85] | 94<br>[3.70] | 131<br>[5.1575] | 116<br>[4.57] | 30<br>[1.811]  | 145<br>[5.71] |

Dimensions in mm [in]

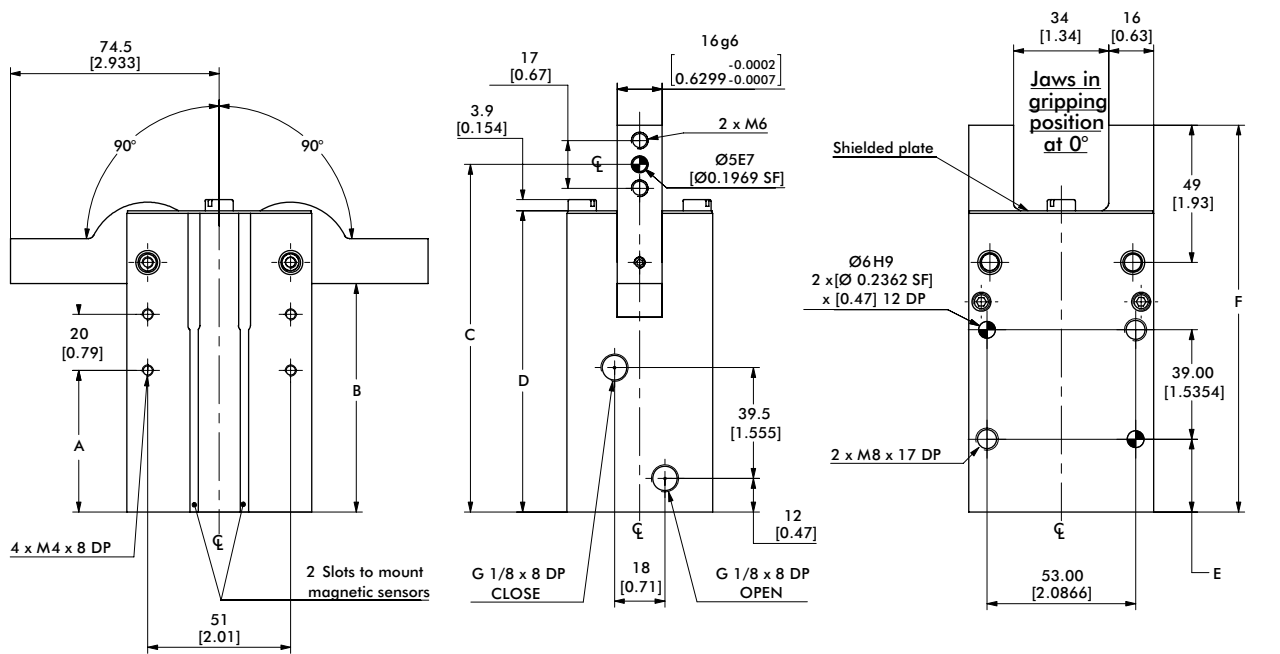
| Mounting Accessories                             | Order #    |
|--------------------------------------------------|------------|
| Inductive Sensor Mounting Kit (mounts 2 sensors) | SDCT-25-32 |
| Adjustment Stop Kit (1 shielded plate, 1 stop)   | KP-CT32-BR |
| Seal Repair Kits                                 | Order #    |
| Buna-N Seal Repair Kit                           | SLKT-163   |
| Viton® Seal Repair Kit                           | SLKT-163V  |

## Loading Information

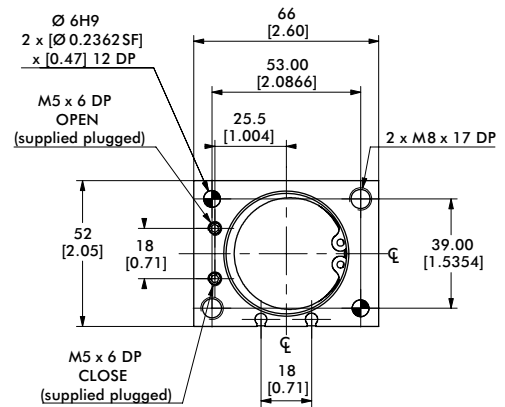
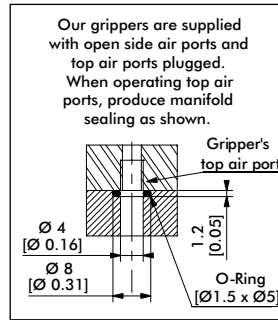
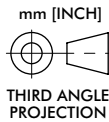


|                                     | Static             |
|-------------------------------------|--------------------|
| Maximum Tensile <b>T</b>            | 288 N [65 lbs]     |
| Maximum Compressive <b>C</b>        | 288 N [65 lbs]     |
| Maximum Moment <b>M<sub>x</sub></b> | 16 Nm [142 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 16 Nm [142 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 16 Nm [142 in-lbs] |

<sup>1</sup>Capacities are per set of jaws and are not simultaneous



NOTE: Jaws have to be designed for a 0° gripping position (parallel jaws). Jaws will close 1.5° past parallel. To limit shocks at the end of an opening or closing stroke, it is highly recommended to design jaws with minimal inertia (as light and short as possible). Flow Controls make it possible to reduce the rotation speed and are highly recommended.

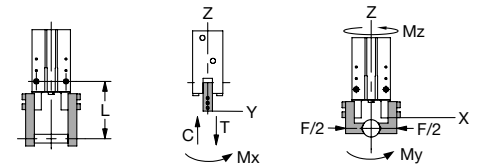
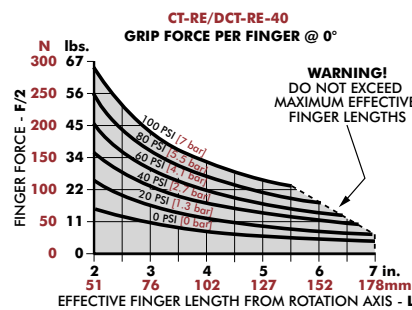
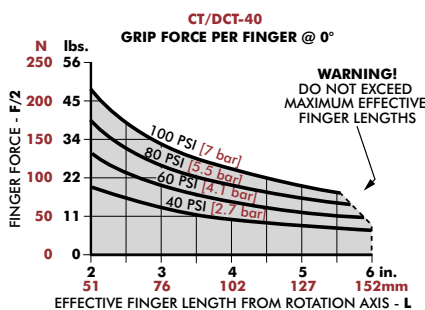


| Model    | A               | B               | C                  | D                | E                 | F                |
|----------|-----------------|-----------------|--------------------|------------------|-------------------|------------------|
| CT-40    | 50.5<br>[1.988] | 81.5<br>[3.209] | 124.00<br>[4.8819] | 107.5<br>[4.232] | 26.00<br>[1.0236] | 138<br>[5.43]    |
| CT-40-RE | 78<br>[3.07]    | 109<br>[4.29]   | 151.50<br>[5.9646] | 135<br>[5.31]    | 32.00<br>[1.2598] | 165.5<br>[6.516] |

Dimensions in mm [in]

| Mounting Accessories                             | Order #    |
|--------------------------------------------------|------------|
| Inductive Sensor Mounting Kit (mounts 2 sensors) | SDCT-40-63 |
| Adjustment Stop Kit (1 shielded plate, 1 stop)   | KP-CT40-BR |
| Seal Repair Kits                                 | Order #    |
| Buna-N Seal Repair Kit                           | SLKT-164   |
| Viton® Seal Repair Kit                           | SLKT-164V  |

## Loading Information

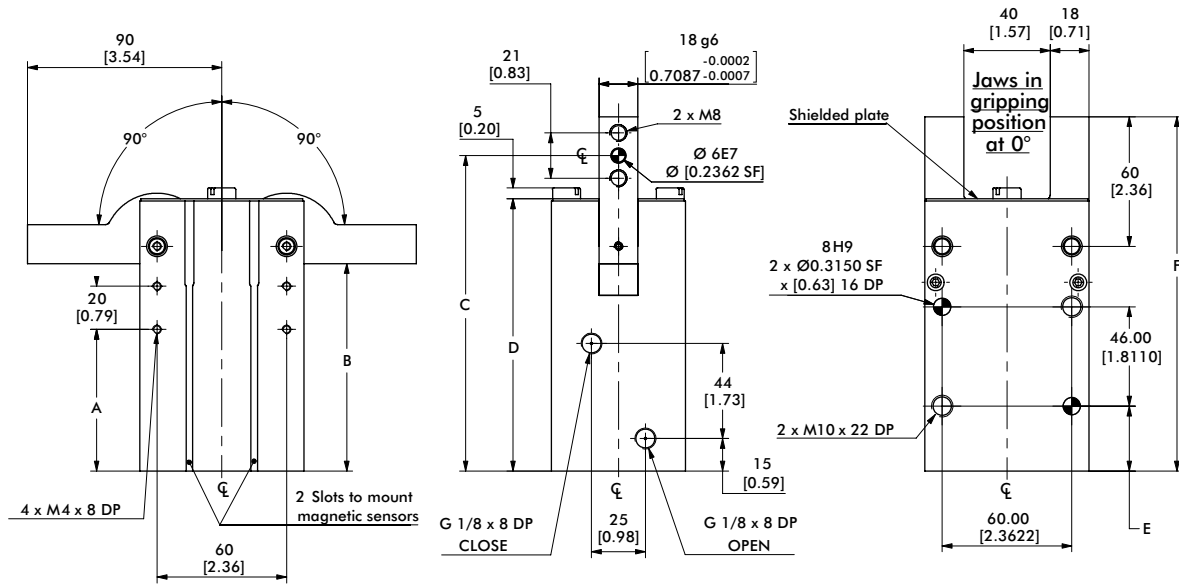


| Static                              |                    |
|-------------------------------------|--------------------|
| Maximum Tensile <b>T</b>            | 420 N [94 lbs]     |
| Maximum Compressive <b>C</b>        | 420 N [94 lbs]     |
| Maximum Moment <b>M<sub>x</sub></b> | 22 Nm [195 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 22 Nm [195 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 22 Nm [195 in-lbs] |

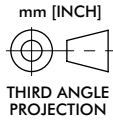
\*Capacities are per set of jaws and are not simultaneous

# CT-50/-50-RE

## Angular Grippers | Dimensions and Technical Specifications

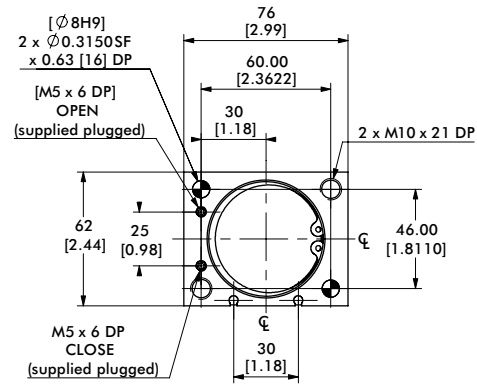
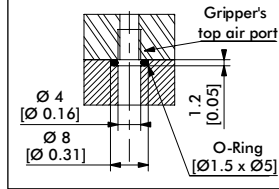


NOTE: Jaws have to be designed for a 0° gripping position (parallel jaws). Jaws will close 1.5° past parallel. To limit shocks at the end of an opening or closing stroke, it is highly recommended to design jaws with minimal inertia (as light and short as possible). Flow Controls make it possible to reduce the rotation speed and are highly recommended.



THIRD ANGLE PROJECTION

Our grippers are supplied with open side air ports and top air ports plugged. When operating top air ports, produce manifold sealing as shown.



| Model    | A                 | B             | C                  | D             | E                 | F             |
|----------|-------------------|---------------|--------------------|---------------|-------------------|---------------|
| CT-50    | 65.5<br>[2.579]   | 96<br>[3.78]  | 146.00<br>[5.7480] | 126<br>[4.96] | 30.00<br>[1.1811] | 164<br>[6.46] |
| CT-50-RE | 102.50<br>[4.035] | 133<br>[5.24] | 183.00<br>[7.2047] | 163<br>[6.42] | 40.00<br>[1.5748] | 201<br>[7.91] |

Dimensions in mm [in]

### Mounting Accessories

Inductive Sensor Mounting Kit (mounts 2 sensors)  
Adjustment Stop Kit (1 shielded plate, 1 stop)

### Order #

SDCT-40-63  
KP-CT50-BR

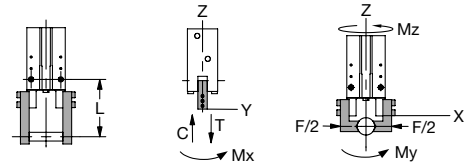
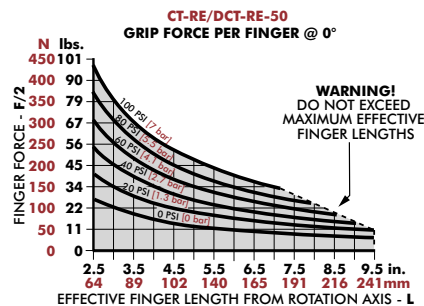
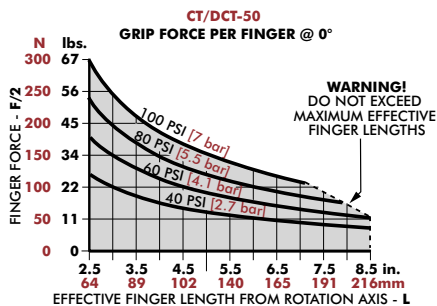
### Seal Repair Kits

Buna-N Seal Repair Kit  
Viton® Seal Repair Kit

### Order #

SLKT-165  
SLKT-165V

## Loading Information



|                                     | Static             |
|-------------------------------------|--------------------|
| Maximum Tensile <b>T</b>            | 490 N [110 lbs]    |
| Maximum Compressive <b>C</b>        | 490 N [110 lbs]    |
| Maximum Moment <b>M<sub>x</sub></b> | 30 Nm [266 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 30 Nm [266 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 30 Nm [266 in-lbs] |

\*Capacities are per set of jaws and are not simultaneous

## ANGULAR GRIPPERS

## Notes

[illegible]

# RA (CAM DRIVEN) SERIES

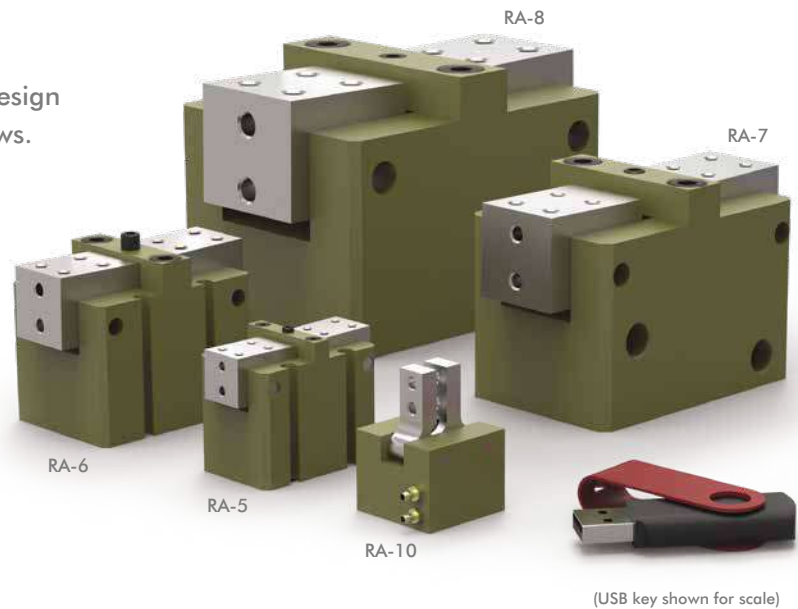
## Angular Grippers | Features and Benefits | How To Order

### Features:

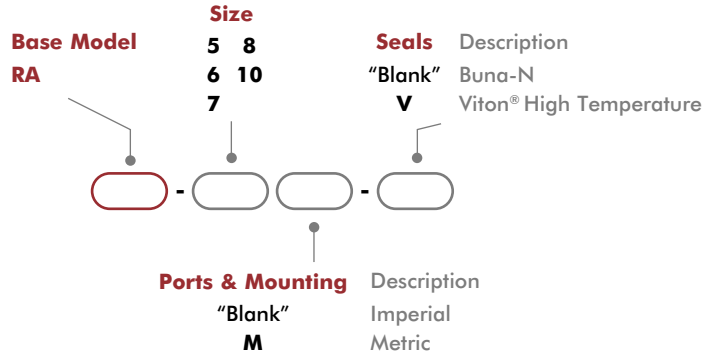
- Highly reliable rugged general purpose gripper
- High grip force to size ratio due to cam driven design
- Fingers can be mounted on the side or top of jaws.
- Optional Viton® seals for high temperatures  
-30°C to +150°C [-20°F to +300°F]
- Use up to 2 magneto resistive sensors

### Applications:

- Industrial assembly machines
- OEM pick and place machines
- General purpose gripping



## How To Order



## Accessories

| Sensor Accessories                                      | Model Numbers | Part Number | Qty/Unit |
|---------------------------------------------------------|---------------|-------------|----------|
| NPN Magneto Resistive Sensor with Quick Disconnect*     | 5, 6, 7, 8    | OHSN-017    | 1-2      |
| PNP Magneto Resistive Sensor with Quick Disconnect*     | 5, 6, 7, 8    | OHSP-017    | 1-2      |
| NPN Magneto Resistive Sensor 90° with Quick Disconnect* | 5, 6, 7, 8    | OHSN-011    | 1-2      |
| PNP Magneto Resistive Sensor 90° with Quick Disconnect* | 5, 6, 7, 8    | OHSP-011    | 1-2      |
| Quick Disconnect 2 Meter Cable Length*                  | 5, 6, 7, 8    | CABL-010    | 1-2      |
| Quick Disconnect 5 Meter Cable Length*                  | 5, 6, 7, 8    | CABL-013    | 1-2      |

| Pneumatic Accessories      | Model Numbers | Part Number | Qty/Unit |
|----------------------------|---------------|-------------|----------|
| Fail Safe Valve (Imperial) | 5, 6          | OFSV-001    | 1        |
| Fail Safe Valve (Metric)   | 5, 6          | OFSV-004    | 1        |
| Fail Safe Valve (Imperial) | 7, 8          | OFSV-002    | 1        |
| Fail Safe Valve (Metric)   | 7, 8          | OFSV-005    | 1        |

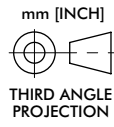
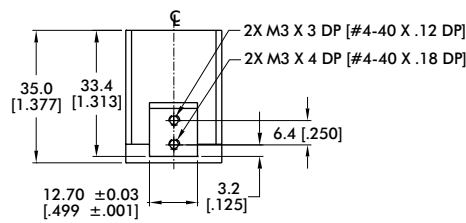
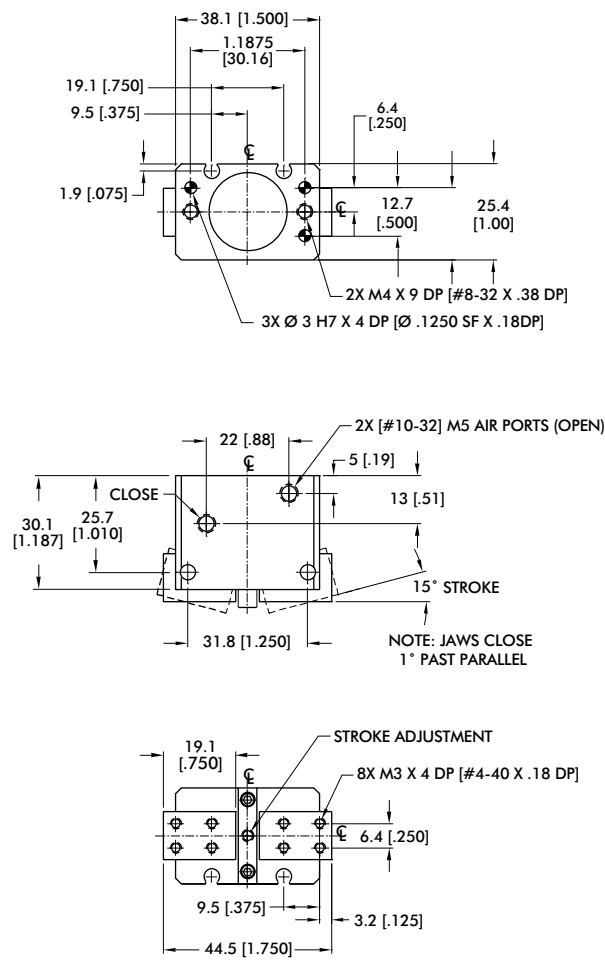
\* Sensor and cable sold separately.

# RA (CAM DRIVEN) SERIES

## Angular Grippers | Technical Specifications

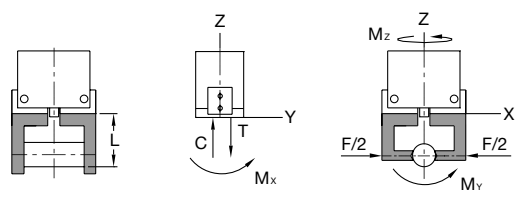
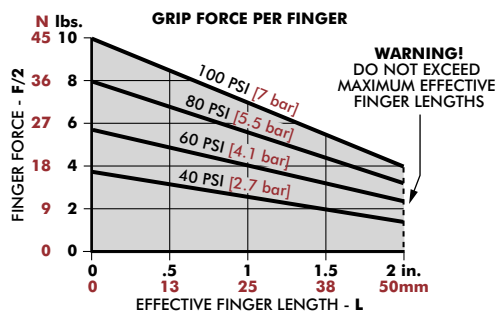
| Specifications                                    | Units                              | 5                          | 6           | 7                          |
|---------------------------------------------------|------------------------------------|----------------------------|-------------|----------------------------|
| Total Rated Grip Force <b>F</b> @ 7 bar [100 psi] | N [lbs]                            | 89 [20]                    | 196 [44]    | 534 [120]                  |
| Total Stroke                                      |                                    | 15° per finger (30° total) |             |                            |
| Open Stroke Adjustment                            |                                    | 15° per finger (30° total) |             | 10° per finger (20° total) |
| Weight                                            | kg [lbs]                           | 0.11 [0.25]                | 0.31 [0.69] | 0.8 [1.8]                  |
| Pressure Range                                    | bar [psi]                          | 3-7 [40-100]               |             |                            |
| Ingress Protection Class (IP)                     |                                    | IP43                       |             |                            |
| Displacement                                      | cm <sup>3</sup> [in <sup>3</sup> ] | 2.1 [0.13]                 | 4.9 [0.300] | 9.8 [0.601]                |
| Temperature Range (Buna-N seals)                  | °C [°F]                            | -35°~80° [-30°~180°]       |             |                            |
| Temperature Range (Viton® seals)                  | °C [°F]                            | -30°~150° [-20°~300°]      |             |                            |
| Actuation                                         | sec                                | 0.10                       | 0.11        | 0.15                       |
| Accuracy                                          | mm [in]                            | ±0.13 [±0.005]             |             |                            |
| Repeatability                                     | mm [in]                            | ±0.08 [±0.003]             |             |                            |
| Valve to Actuate                                  |                                    | 4-way, 2-position          |             |                            |

| Specifications                                    | Units                              | 8                          | 10             |
|---------------------------------------------------|------------------------------------|----------------------------|----------------|
| Total Rated Grip Force <b>F</b> @ 7 bar [100 psi] | N [lbs]                            | 801 [180]                  | 71 [16]        |
| Total Stroke                                      |                                    | 15° per finger (30° total) |                |
| Open Stroke Adjustment                            |                                    | 10° per finger (20° total) | --             |
| Weight                                            | kg [lbs]                           | 2.1 [4.6]                  | 0.03 [0.063]   |
| Pressure Range                                    | bar [psi]                          | 3-7 [40-100]               |                |
| Ingress Protection Class (IP)                     |                                    | IP43                       |                |
| Displacement                                      | cm <sup>3</sup> [in <sup>3</sup> ] | 21.6 [1.320]               | 0.4 [0.026]    |
| Temperature Range (Buna-N seals)                  | °C [°F]                            | -35°~80° C [-30°~180° F]   |                |
| Temperature Range (Viton® seals)                  | °C [°F]                            | -30°~150° C [-20°~300° F]  |                |
| Actuation                                         | sec                                | 0.23                       | 0.08           |
| Accuracy                                          | mm [in]                            | ±0.13 [±0.005]             | ±0.08 [±0.003] |
| Repeatability                                     | mm [in]                            | ±0.08 [±0.003]             | ±0.03 [±0.001] |
| Valve to Actuate                                  |                                    | 4-way, 2-position          |                |



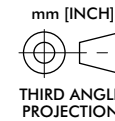
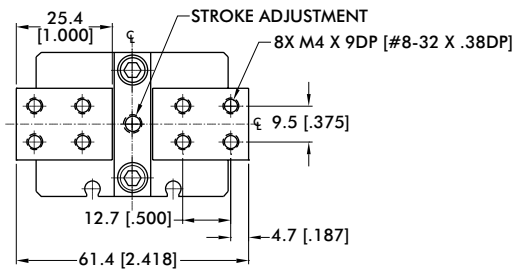
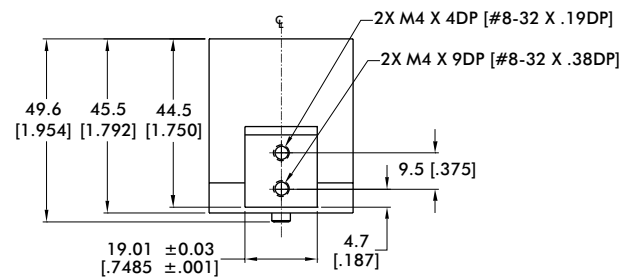
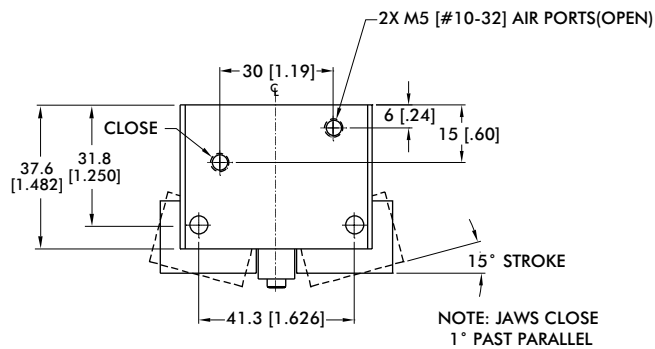
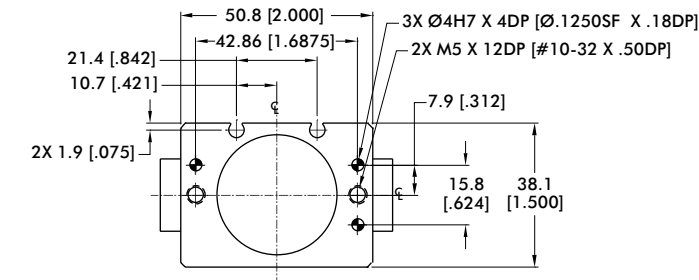
| Seal Repair Kits       | Order #   |
|------------------------|-----------|
| Buna-N Seal Repair Kit | SLKT-022  |
| Viton® Seal Repair Kit | SLKT-022V |

Loading Information



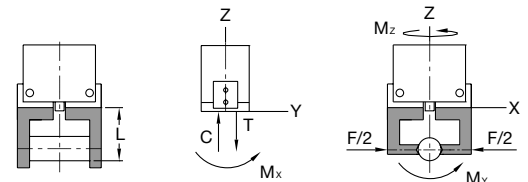
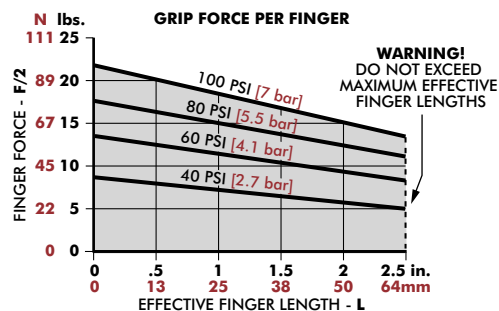
| RA-5                                | Static             |
|-------------------------------------|--------------------|
| Maximum Tensile <b>T</b>            | 44 N [10 lbs]      |
| Maximum Compressive <b>C</b>        | 44 N [10 lbs]      |
| Maximum Moment <b>M<sub>x</sub></b> | 1.1 Nm [10 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 1.1 Nm [10 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 1.1 Nm [10 in-lbs] |

<sup>t</sup>Capacities are per set of jaws and are not simultaneous



| Seal Repair Kits       | Order #   |
|------------------------|-----------|
| Buna-N Seal Repair Kit | SLKT-023  |
| Viton® Seal Repair Kit | SLKT-023V |

## Loading Information

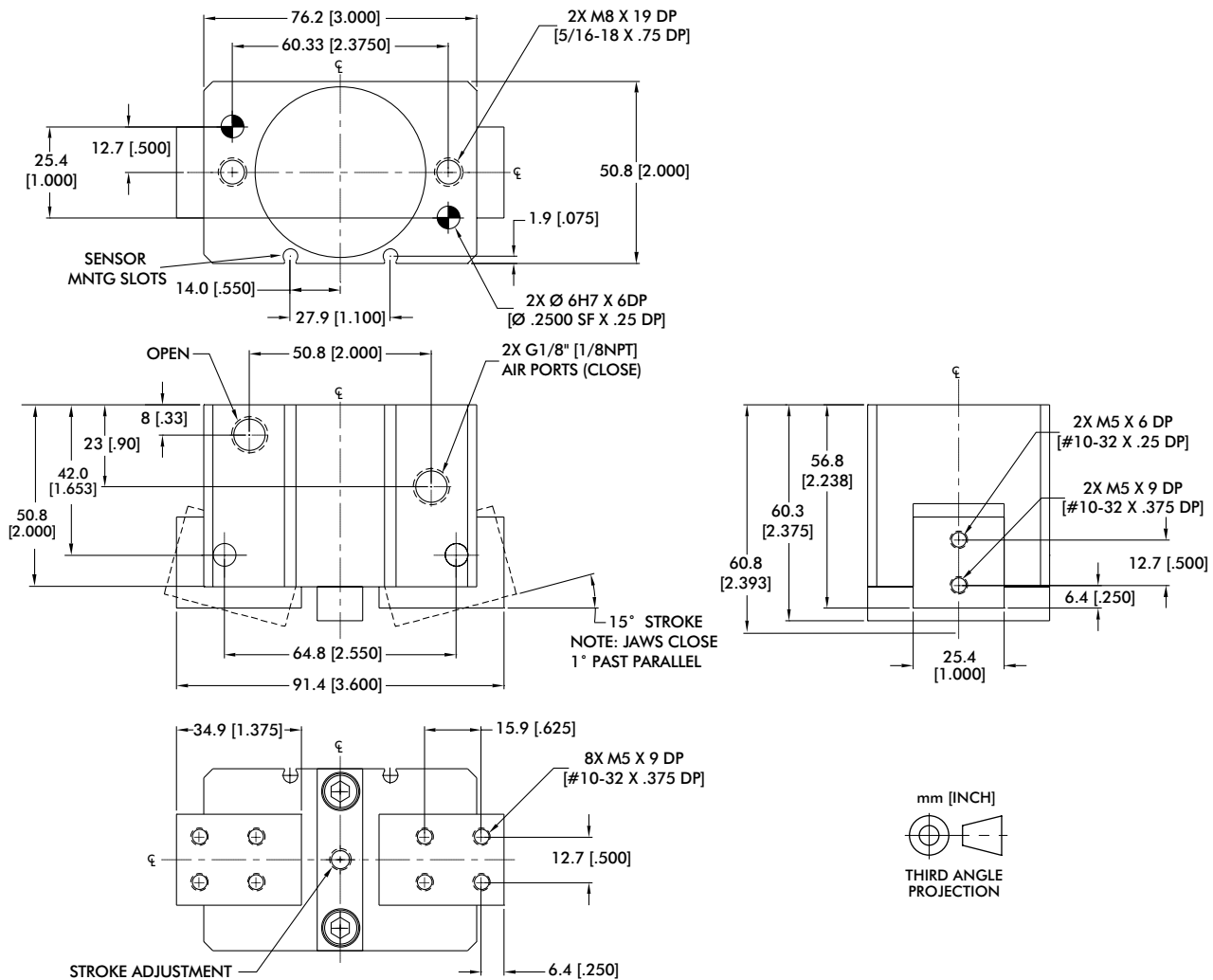


| RA-6                                | Static             |
|-------------------------------------|--------------------|
| Maximum Tensile <b>T</b>            | 89 N [20 lbs]      |
| Maximum Compressive <b>C</b>        | 89 N [20 lbs]      |
| Maximum Moment <b>M<sub>x</sub></b> | 2.3 Nm [20 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 2.3 Nm [20 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 2.3 Nm [20 in-lbs] |

\*Capacities are per set of jaws and are not simultaneous

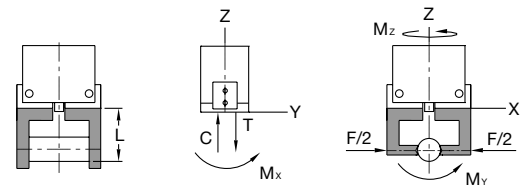
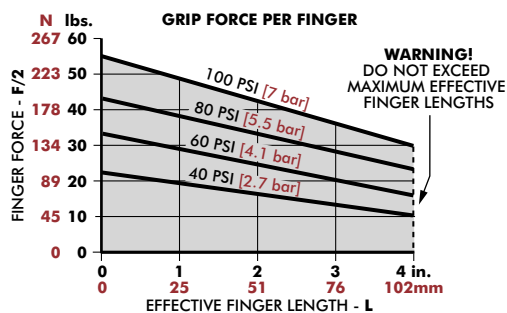
# RA-7

## Angular Grippers | Dimensions and Technical Specifications



| Seal Repair Kits       | Order #   |
|------------------------|-----------|
| Buna-N Seal Repair Kit | SLKT-118  |
| Viton® Seal Repair Kit | SLKT-118V |

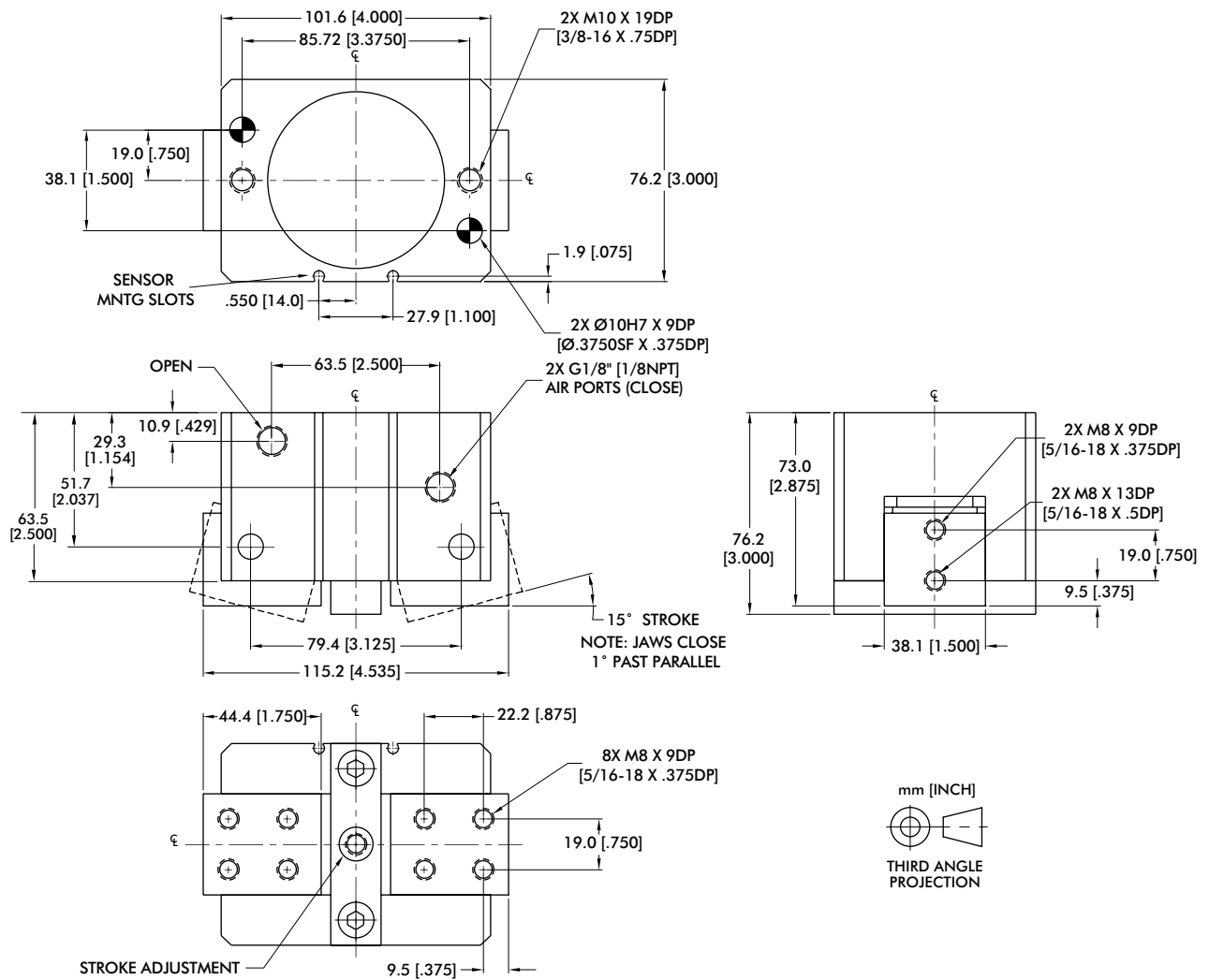
## Loading Information



| RA-7                                | Static             |
|-------------------------------------|--------------------|
| Maximum Tensile <b>T</b>            | 267 N [60 lbs]     |
| Maximum Compressive <b>C</b>        | 267 N [60 lbs]     |
| Maximum Moment <b>M<sub>x</sub></b> | 6.8 Nm [60 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 6.8 Nm [60 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 6.8 Nm [60 in-lbs] |

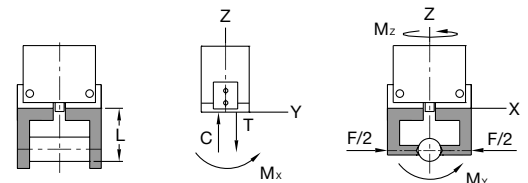
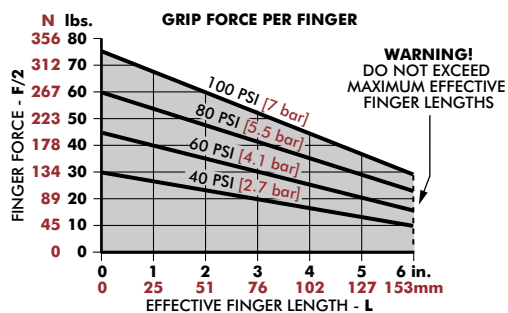
\*Capacities are per set of jaws and are not simultaneous

## Angular Grippers | Dimensions and Technical Specifications



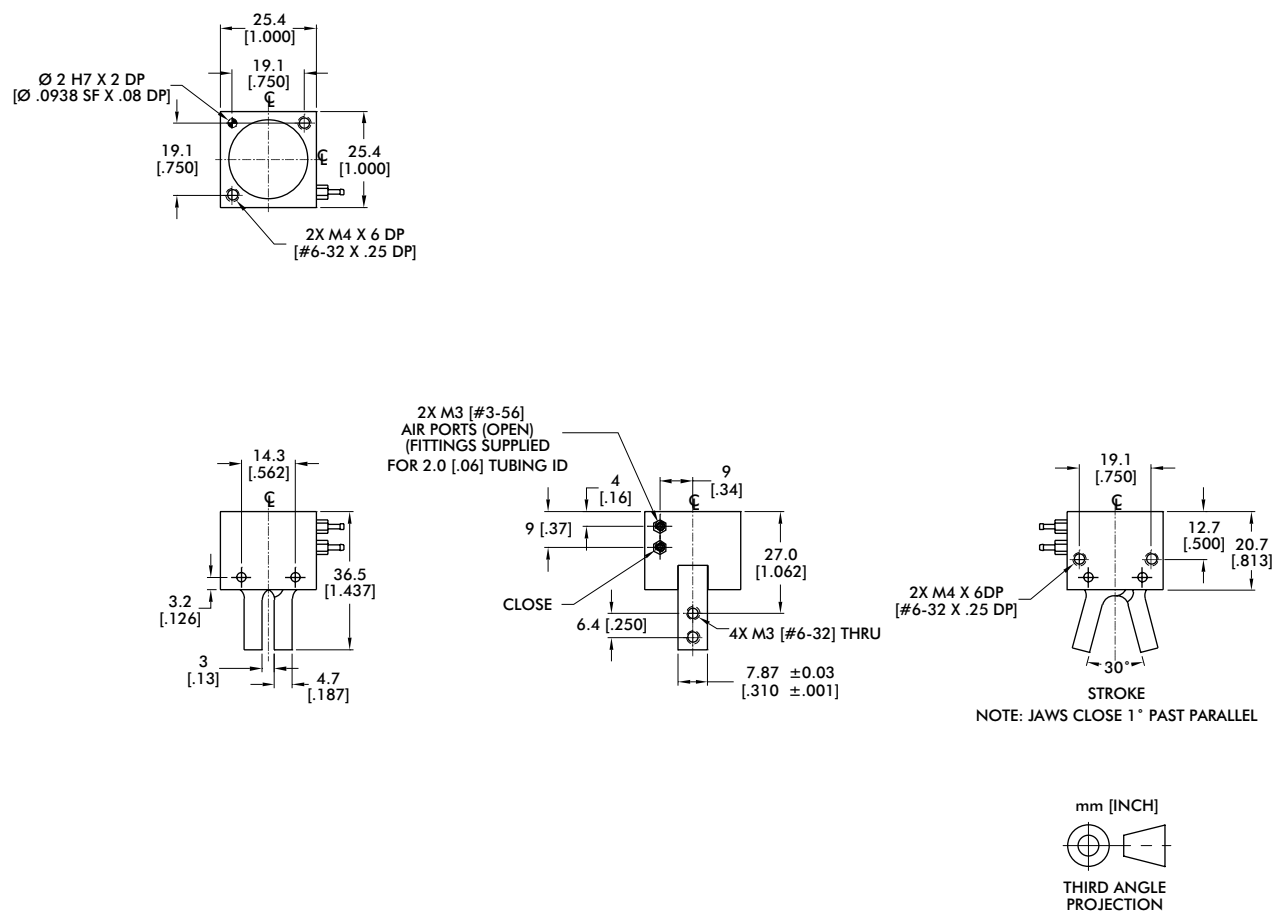
| Seal Repair Kits       | Order #   |
|------------------------|-----------|
| Buna-N Seal Repair Kit | SLKT-119  |
| Viton® Seal Repair Kit | SLKT-119V |

## Loading Information



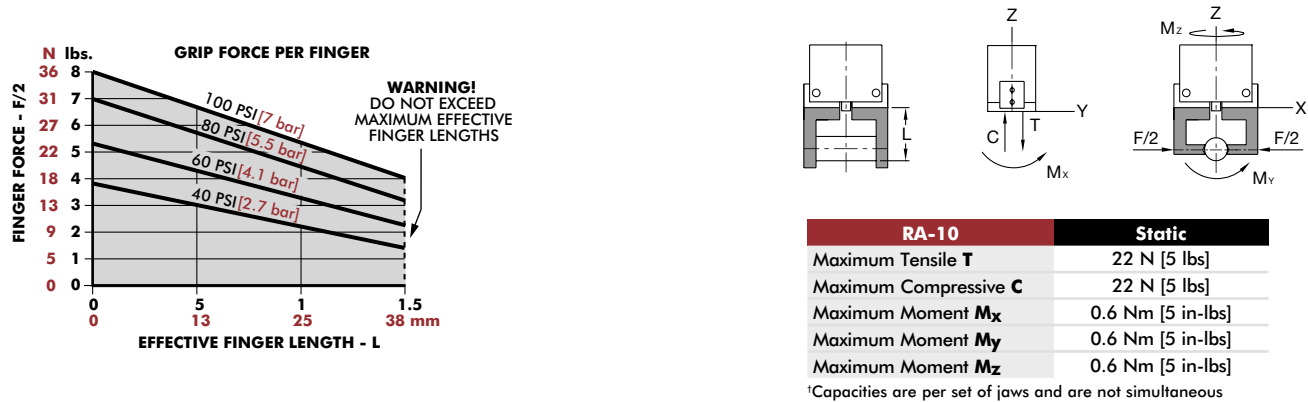
| RA-8                                | Static              |
|-------------------------------------|---------------------|
| Maximum Tensile <b>T</b>            | 400 N [90 lbs]      |
| Maximum Compressive <b>C</b>        | 400 N [90 lbs]      |
| Maximum Moment <b>M<sub>x</sub></b> | 10.2 Nm [90 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 10.2 Nm [90 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 10.2 Nm [90 in-lbs] |

\*Capacities are per set of jaws and are not simultaneous



| Seal Repair Kits       | Order #   |
|------------------------|-----------|
| Buna-N Seal Repair Kit | SLKT-018  |
| Viton® Seal Repair Kit | SLKT-018V |

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## ANGULAR GRIPPERS

## Notes

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# RA (TOGGLE LOCK) SERIES

## Angular Grippers | Features and Benefits | How To Order

### Features:

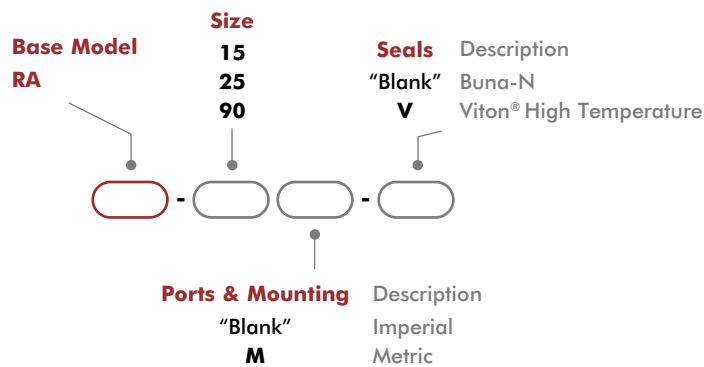
- Highly reliable rugged general purpose gripper
- Very high grip force to size ratio due to toggle mechanism
- True Failsafe with toggle locking jaws—gripper cannot release part without air
- Optional Viton® seals for high temperatures -30°C to +150°C [-20°F to +300°F]
- Optional inductive sensors and flow controls

### Applications:

- Applications requiring internal/external gripping with toggle locking
- Internal gripping Applications without locking
- Industrial assembly machines
- OEM pick and place machines



## How To Order



## Accessories

| Sensor Accessories                                                | Model Numbers | Part Number | Qty/Unit |
|-------------------------------------------------------------------|---------------|-------------|----------|
| Sensor Mounting Kit, Mounts 2 Inductive Sensors (Imperial/Metric) | See Datasheet |             | 1        |
| NPN Inductive Sensor with Quick Disconnect*                       | 15, 90        | OISN-019    | 1-2      |
| PNP Inductive Sensor with Quick Disconnect*                       | 15, 90        | OISP-019    | 1-2      |
| NPN Inductive Sensor with Quick Disconnect*                       | 25            | OISN-014    | 1-2      |
| PNP Inductive Sensor with Quick Disconnect*                       | 25            | OISP-014    | 1-2      |
| NPN Magneto Resistive Sensor with Quick Disconnect*               | 90            | OHSN-017    | 1-2      |
| PNP Magneto Resistive Sensor with Quick Disconnect*               | 90            | OHSP-017    | 1-2      |
| NPN Magneto Resistive Sensor 90° with Quick Disconnect*           | 90            | OHSN-011    | 1-2      |
| PNP Magneto Resistive Sensor 90° with Quick Disconnect*           | 90            | 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 |
|--------------------------------------|---------------|-------------|----------|
| #10-32 to 1/4" OD Tube Flow Controls | 90            | VLVF-007    | 2        |
| M5 to 6mm OD Tube Flow Controls      | 90            | VLVF-008    | 2        |

\* Sensor and cable sold separately.

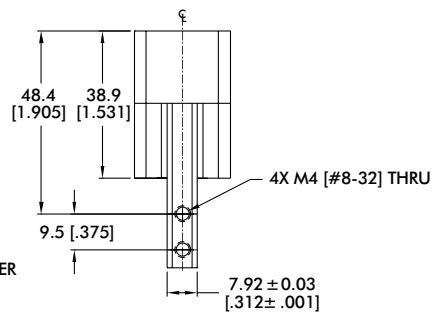
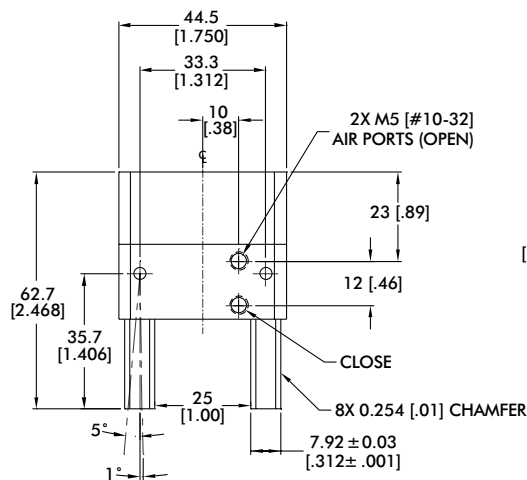
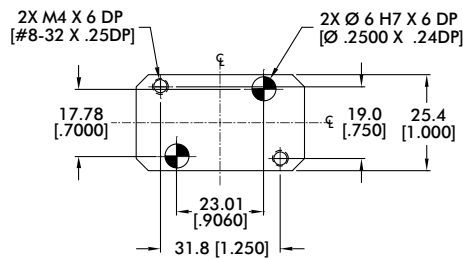
# RA (TOGGLE LOCK) SERIES

## Angular Grippers | Technical Specifications

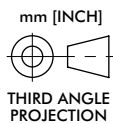
| Specifications                                    | Units                              | 15                        | 25          | 90                          |
|---------------------------------------------------|------------------------------------|---------------------------|-------------|-----------------------------|
| Total Rated Grip Force <b>F</b> @ 100 psi [7 bar] | N [lbs]                            | 311 [70]                  | 1112 [250]  | 356 [80]                    |
| Total Stroke                                      |                                    | 6° per finger (12° total) |             | 90° per finger (180° total) |
| Stroke Adjustment                                 |                                    | --                        |             | 45° per finger (90° total)  |
| Weight                                            | kg [lbs]                           | 0.14 [0.31]               | 0.48 [1.06] | 0.20 [0.438]                |
| Pressure Range                                    | bar [psi]                          | 3-7 [40-100]              |             |                             |
| Ingress Protection Class (IP)                     |                                    | IP43                      |             |                             |
| Displacement                                      | cm <sup>3</sup> [in <sup>3</sup> ] | 1.8 [0.110]               | 0.8 [0.046] | 7.5 [0.460]                 |
| Temperature Range (Buna-N seals)                  | °C [°F]                            | -35°~80° [-30°~180°]      |             |                             |
| Temperature Range (Viton® seals)                  | °C [°F]                            | -30°~150° [-20°~300°]     |             |                             |
| Actuation                                         | sec                                | 0.10                      | 0.12        | 0.16                        |
| Accuracy                                          | mm [in]                            | ±0.08 [±0.003]            |             |                             |
| Repeatability                                     | mm [in]                            | ±0.03 [±0.0001]           |             |                             |
| Valve to Required Actuate Double Acting           |                                    | 4-way, 2-position         |             |                             |

# RA-15

## Angular Grippers | Dimensions and Technical Specifications

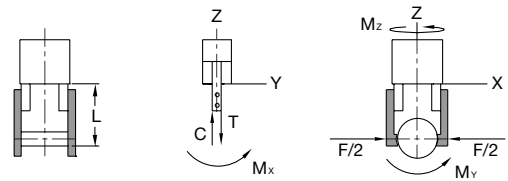
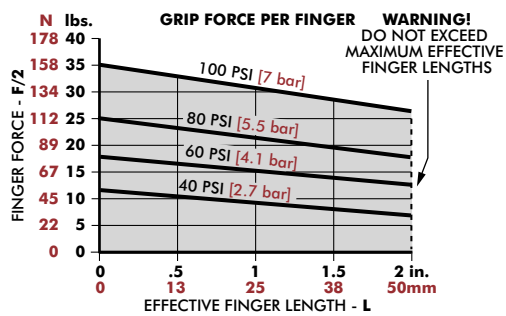


JAW SHOWN PARALLEL  
JAW WILL CLOSE 1° PAST PARALLEL



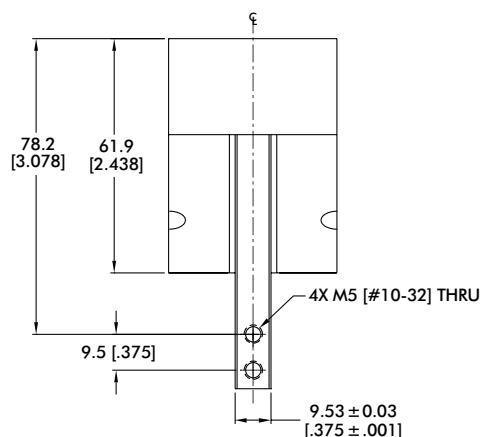
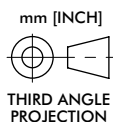
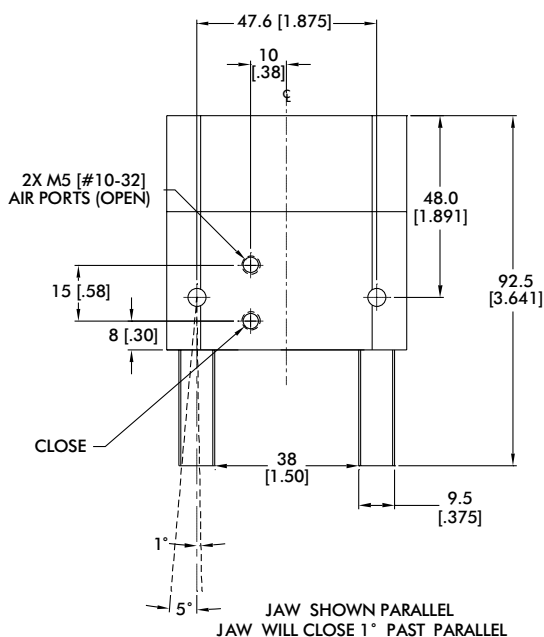
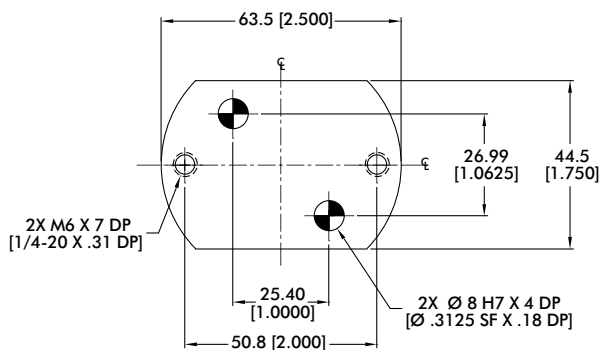
| Sensor Accessories                               | Order #   |
|--------------------------------------------------|-----------|
| Inductive Sensor Mounting Kit (mounts 2 sensors) | OSMK-018  |
| Seal Repair Kits                                 | Order #   |
| Buna-N Seal Repair Kit                           | SLKT-019  |
| Viton® Seal Repair Kit                           | SLKT-019V |

## Loading Information



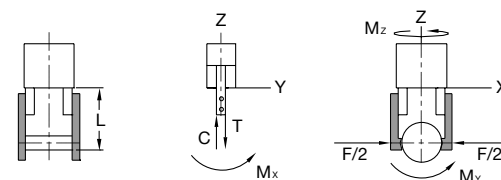
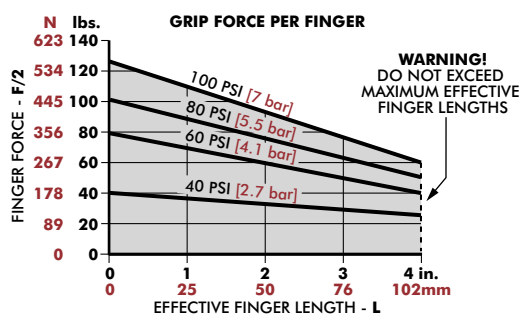
| RA-15                               | Static               |
|-------------------------------------|----------------------|
| Maximum Tensile <b>T</b>            | 222 N [50 lbs]       |
| Maximum Compressive <b>C</b>        | 222 N [50 lbs]       |
| Maximum Moment <b>M<sub>x</sub></b> | 6.8 Nm [60 in-lbs]   |
| Maximum Moment <b>M<sub>y</sub></b> | 13.6 Nm [120 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 6.8 Nm [60 in-lbs]   |

<sup>1</sup>Capacities are per set of jaws and are not simultaneous



| Sensor Accessories                               | Order #   |
|--------------------------------------------------|-----------|
| Inductive Sensor Mounting Kit (mounts 2 sensors) | OSMK-019  |
| Seal Repair Kits                                 | Order #   |
| Buna-N Seal Repair Kit                           | SLKT-020  |
| Viton® Seal Repair Kit                           | SLKT-020V |

## Loading Information



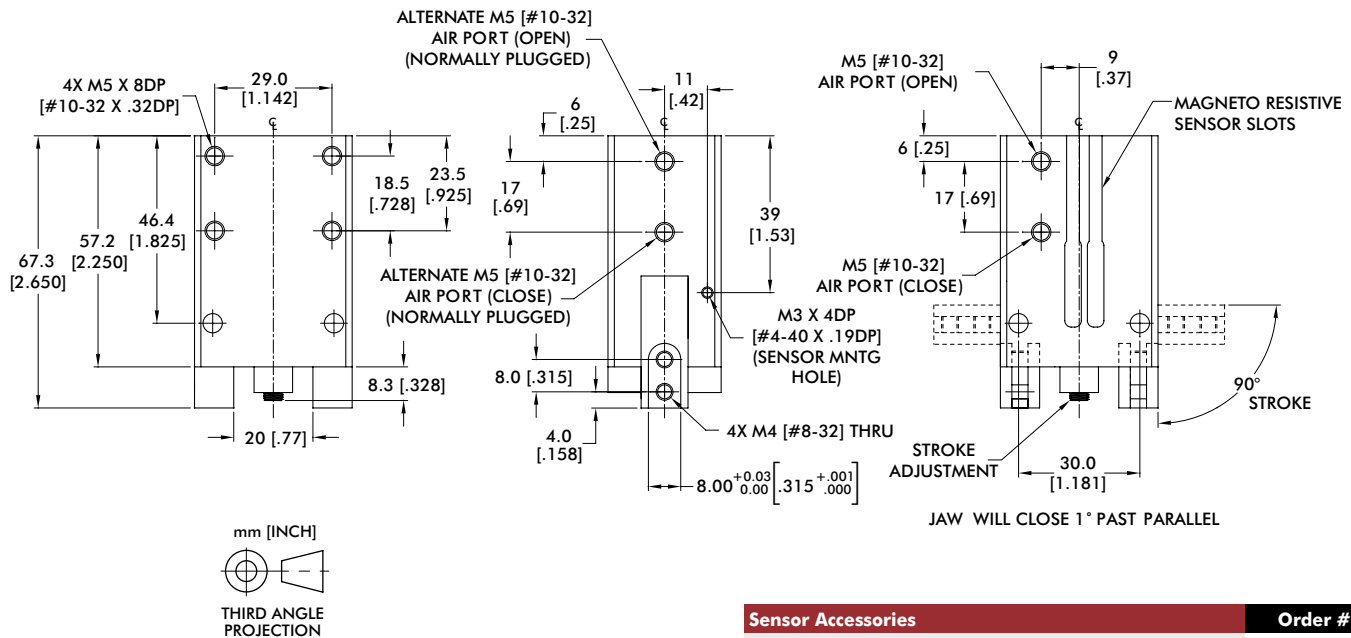
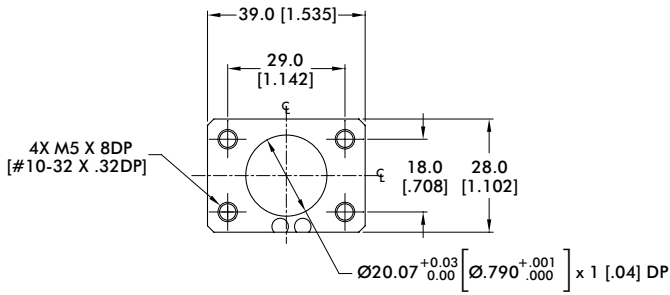
| RA-25                               | Static               |
|-------------------------------------|----------------------|
| Maximum Tensile <b>T</b>            | 667 N [150 lbs]      |
| Maximum Compressive <b>C</b>        | 667 N [150 lbs]      |
| Maximum Moment <b>M<sub>x</sub></b> | 22.6 Nm [200 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 33.9 Nm [300 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 22.6 Nm [200 in-lbs] |

\*Capacities are per set of jaws and are not simultaneous

# RA-90

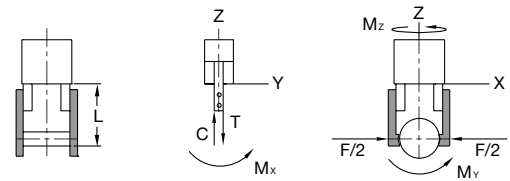
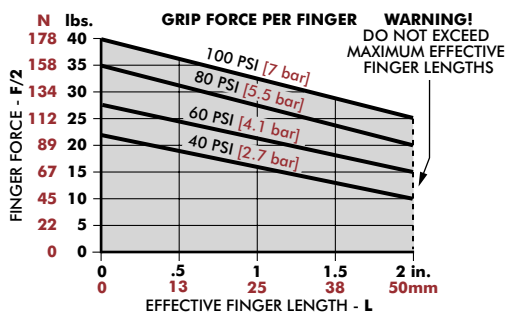
## Angular Grippers | Dimensions and Technical Specifications

DO NOT OPERATE WITHOUT FLOW CONTROLS



| Sensor Accessories                               | Order #   |
|--------------------------------------------------|-----------|
| Inductive Sensor Mounting Kit (mounts 2 sensors) | OSMK-003  |
| Seal Repair Kits                                 | Order #   |
| Buna-N Seal Repair Kit                           | SLKT-024  |
| Viton® Seal Repair Kit                           | SLKT-024V |

## Loading Information



| RA-90                               | Static               |
|-------------------------------------|----------------------|
| Maximum Tensile <b>T</b>            | 222 N [50 lbs]       |
| Maximum Compressive <b>C</b>        | 222 N [50 lbs]       |
| Maximum Moment <b>M<sub>x</sub></b> | 6.8 Nm [60 in-lbs]   |
| Maximum Moment <b>M<sub>y</sub></b> | 13.6 Nm [120 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 6.8 Nm [60 in-lbs]   |

\*Capacities are per set of jaws and are not simultaneous

## ANGULAR GRIPPERS

## Notes

[illegible]

# RUA SERIES

## Angular Grippers | Features and Benefits | How To Order

### Features:

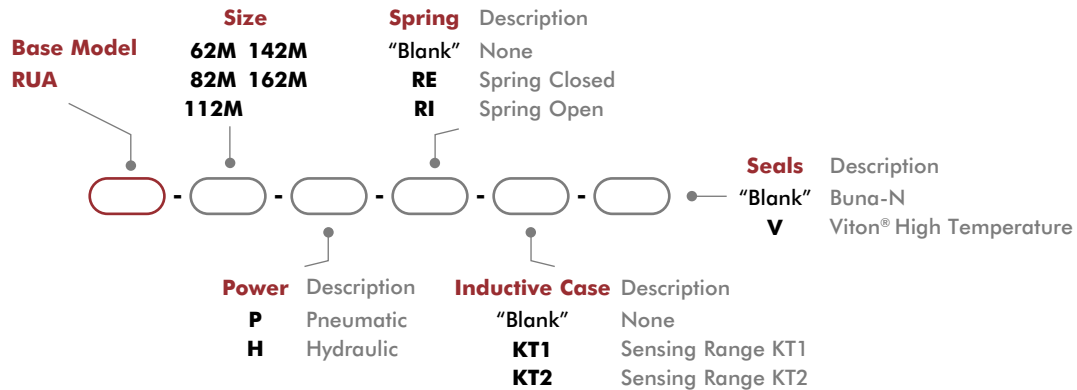
- Robust, shielded, high force gripper
- Optional springs for part retention in case of air loss or increased grip-force
- Side or top manifold air ports
- Optional Viton® seals for high temperatures -30°C to +150°C [-20°F to +300°F]
- Boot options available for weld splatter applications

### Applications:

- Welding and sandblasting applications
- Paintbooth applications
- Heavy part gripping solutions



## How To Order



## Accessories

| Sensor Accessories                                               | Model Numbers  | Part Number | Qty/Unit |
|------------------------------------------------------------------|----------------|-------------|----------|
| NPN Magneto Resistive Sensor with Quick Disconnect* **           | 62M, 82M, 112M | OHSN-017    | 1-2      |
| PNP Magneto Resistive Sensor with Quick Disconnect* **           | 62M, 82M, 112M | OHSP-017    | 1-2      |
| NPN Magneto Resistive Sensor 90° with Quick Disconnect* **       | 62M, 82M, 112M | OHSN-011    | 1-2      |
| PNP Magneto Resistive Sensor 90° with Quick Disconnect* **       | 62M, 82M, 112M | OHSP-011    | 1-2      |
| Replacement PNP Double Inductive Sensor* †                       | All Models     | KT15        | 1        |
| Quick Disconnect 2 Meter Cable Length*                           | 62M, 82M, 112M | CABL-010    | 1-2      |
| Quick Disconnect 5 Meter Cable Length*                           | 62M, 82M, 112M | CABL-013    | 1-2      |
| Quick Disconnect 2 Meter Cable Length (for KT Inductive Sensor)* | All Models     | CABL-014    | 1-2      |

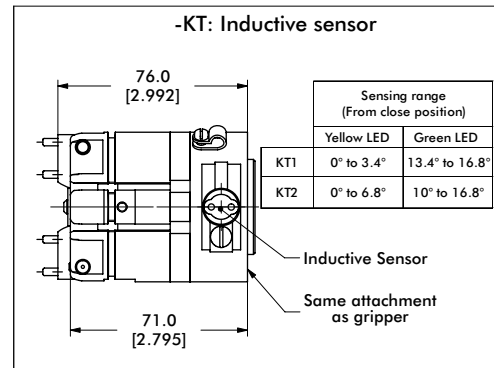
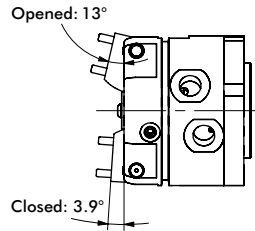
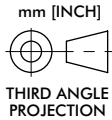
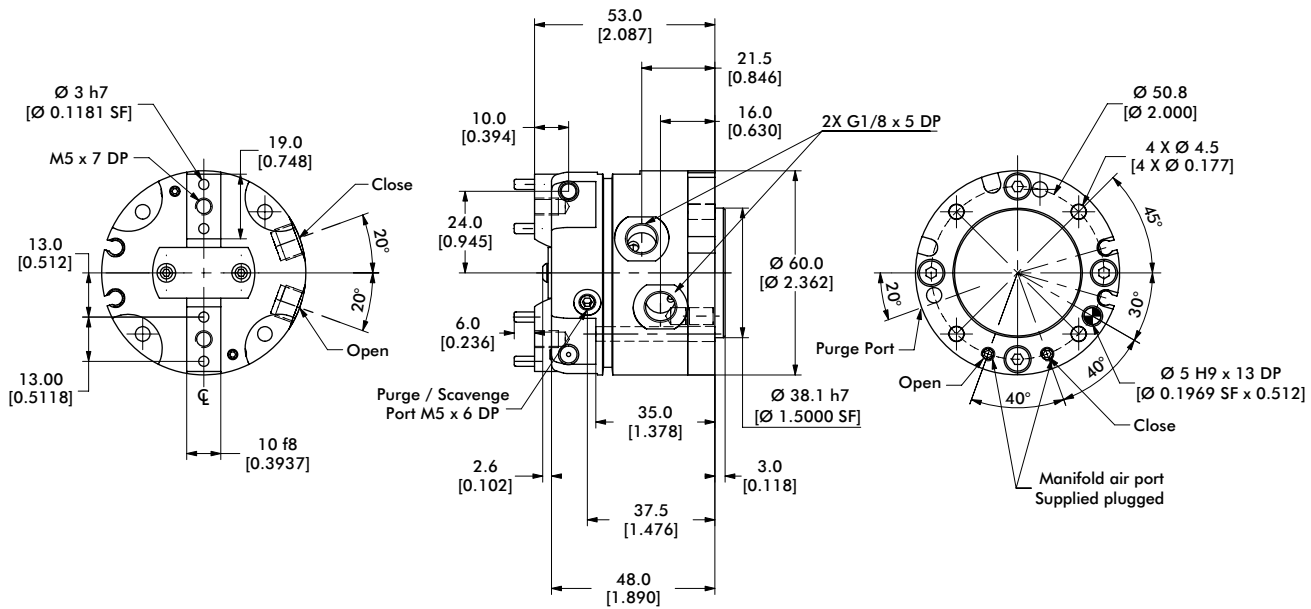
\* Sensor and cable sold separately. \*\* Piston magnet standard. † Requires KT1 or KT2 sensor option.

| Specifications                                    | Units     | 62M                               | 82M                               | 112M                              |
|---------------------------------------------------|-----------|-----------------------------------|-----------------------------------|-----------------------------------|
| Total Rated Grip Force <b>L=25mm</b> [1 in.] @ 0° |           |                                   |                                   |                                   |
| @ 7 bar [100 psi], w/spring                       | N [lbs]   | 384 [86]                          | 1228 [276]                        | 2150 [483]                        |
| @ 7 bar [100 psi], w/o spring                     | N [lbs]   | 313 [70]                          | 922 [207]                         | 1600 [360]                        |
| Total Stroke                                      |           | 16.8° per finger<br>(33.6° total) | 15.9° per finger<br>(31.8° total) | 19.1° per finger<br>(38.2° total) |
| Weight                                            | kg [lbs]  | 0.39 [0.86]                       | 0.70 [1.55]                       | 1.70 [3.75]                       |
| Pressure Range without springs                    | bar [psi] | 2-7 [30-100]                      |                                   |                                   |
| Pressure Range with springs <b>-RE, -RI</b>       | bar [psi] | 3-7 [45-100]                      |                                   |                                   |
| Ingress Protection Class (IP)                     |           | IP54                              |                                   |                                   |
| Displacement                                      | cm³ [in³] | 12 [0.73]                         | 35 [2.14]                         | 85 [5.19]                         |
| Temperature Range (Buna-N seals)                  | °C [°F]   | -35°~80° [-30°~180°]              |                                   |                                   |
| Temperature Range (Viton® seals)                  | °C [°F]   | -30°~150° [-20°~300°]             |                                   |                                   |
| Actuation                                         | sec       | 0.18                              | 0.10                              | 0.35                              |
| Accuracy                                          | mm [in]   | ±0.05 [±0.002]                    |                                   | ±0.08 [±0.003]                    |
| Repeatability                                     | mm [in]   | ±0.02 [±0.0008]                   |                                   | ±0.03 [±0.0008]                   |
| Valve to Required Actuate Single Acting           |           | 3-way, 2-position                 |                                   |                                   |
| Valve to Required Actuate Double Acting           |           | 4-way, 2-position                 |                                   |                                   |

| Specifications                                    | Units     | 142M                              | 162M                              |
|---------------------------------------------------|-----------|-----------------------------------|-----------------------------------|
| Total Rated Grip Force <b>L=25mm</b> [1 in.] @ 0° |           |                                   |                                   |
| @ 7 bar [100 psi], w/spring                       | N [lbs]   | 5775 [1298]                       | 5490 [1234]                       |
| @ 7 bar [100 psi], w/o spring                     | N [lbs]   | 3941 [886]                        | 3790 [853]                        |
| Total Stroke                                      |           | 17.6° per finger<br>(35.2° total) | 17.2° per finger<br>(34.4° total) |
| Weight                                            | kg [lbs]  | 4.1 [9.05]                        | 6.7 [14.8]                        |
| Pressure Range without springs                    | bar [psi] | 2-7 [30-100]                      |                                   |
| Pressure Range with springs <b>-RE, -RI</b>       | bar [psi] | 4-7 [60-100]                      |                                   |
| Ingress Protection Class (IP)                     |           | IP54                              |                                   |
| Displacement                                      | cm³ [in³] | 215 [13.2]                        | 322 [19.7]                        |
| Temperature Range (Buna-N seals)                  |           | -35°~80° [-30°~180°]              |                                   |
| Temperature Range (Viton® seals standard)         | °C [°F]   | -30°~150° [-20°~300°]             |                                   |
| Actuation                                         | sec       | 0.60                              | 0.80                              |
| Accuracy                                          | mm [in]   | ±0.8 [±0.003]                     |                                   |
| Repeatability                                     | mm [in]   | ±0.03 [±0.0008]                   |                                   |
| Valve to Required Actuate Single Acting           |           | 3-way, 2-position                 |                                   |
| Valve to Required Actuate Double Acting           |           | 4-way, 2-position                 |                                   |

# RUA-62M

## Angular Grippers | Dimensions and Technical Specifications

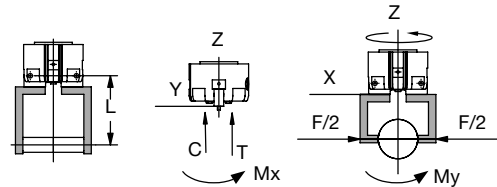
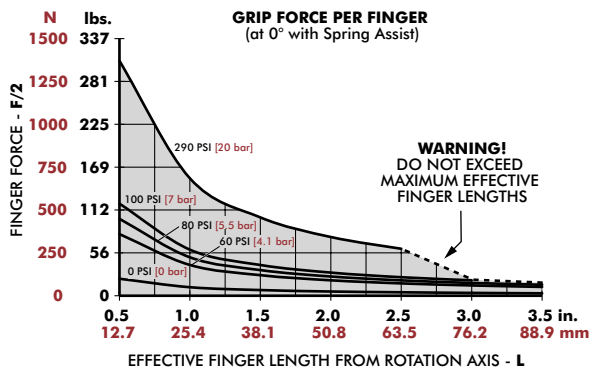


| Protective Boots                                        |  | Order #  |
|---------------------------------------------------------|--|----------|
| PVC Sealed Boot Kit (2 interfaces, 1 collar, 1 boot)    |  | SLKT-367 |
| Kevlar Sealed Boot Kit (2 interfaces, 1 collar, 1 boot) |  | SLKT-368 |

| Seal Repair Kits                  |  | Order #   |
|-----------------------------------|--|-----------|
| Seal Repair Kit Standard (Buna-N) |  | SLKT-156  |
| Seal Repair Kit (Viton®)          |  | SLKT-156V |
| Seal Repair Kit (Hydraulic)       |  | SLKT-330  |

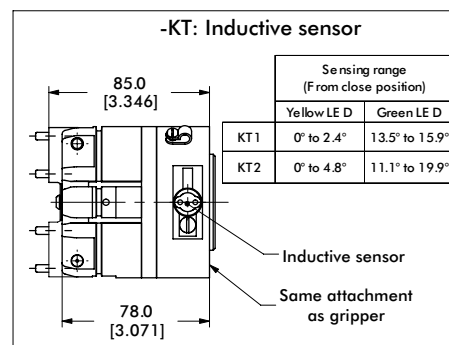
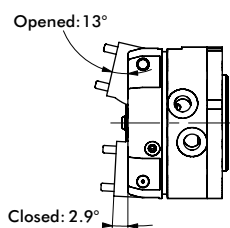
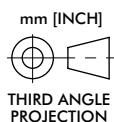
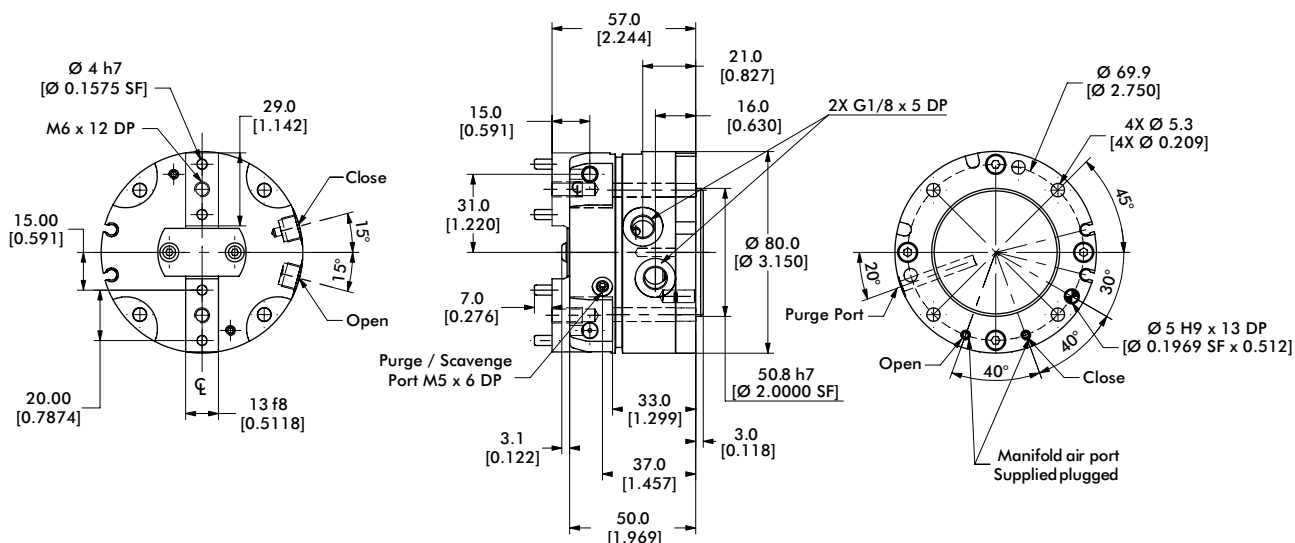
## Loading Information



| RUA-62M                             | Static               |
|-------------------------------------|----------------------|
| Maximum Tensile <b>T</b>            | 236 N [53 lbs]       |
| Maximum Compressive <b>C</b>        | 236 N [53 lbs]       |
| Maximum Moment <b>M<sub>x</sub></b> | 12.5 Nm [111 in-lbs] |
| Maximum Moment <b>M<sub>y</sub></b> | 34.5 Nm [305 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 12.5 Nm [111 in-lbs] |

\*Capacities are per set of jaws and are not simultaneous

## Angular Grippers | Dimensions and Technical Specifications

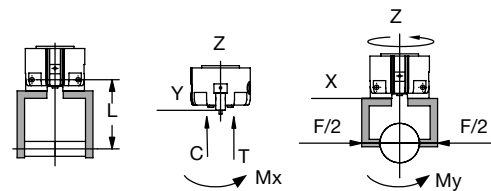
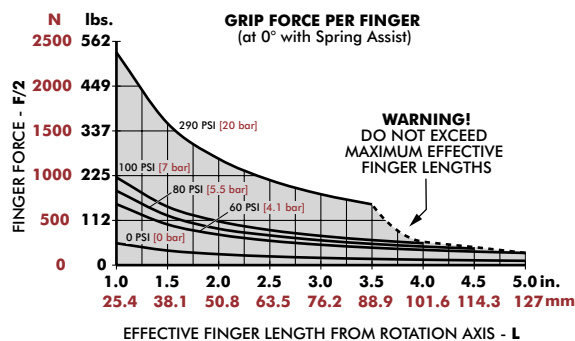


| Protective Boots                                        |  | Order #  |
|---------------------------------------------------------|--|----------|
| PVC Sealed Boot Kit (2 interfaces, 1 collar, 1 boot)    |  | SLKT-370 |
| Kevlar Sealed Boot Kit (2 interfaces, 1 collar, 1 boot) |  | SLKT-371 |

| Seal Repair Kits                  |  | Order #   |
|-----------------------------------|--|-----------|
| Seal Repair Kit Standard (Buna-N) |  | SLKT-157  |
| Seal Repair Kit (Viton®)          |  | SLKT-157V |
| Seal Repair Kit (Hydraulic)       |  | SLKT-331  |

## Loading Information

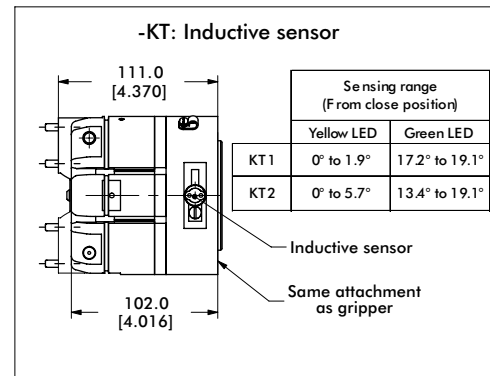
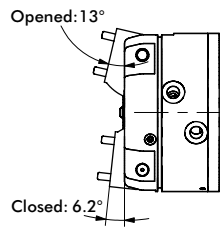
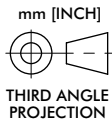
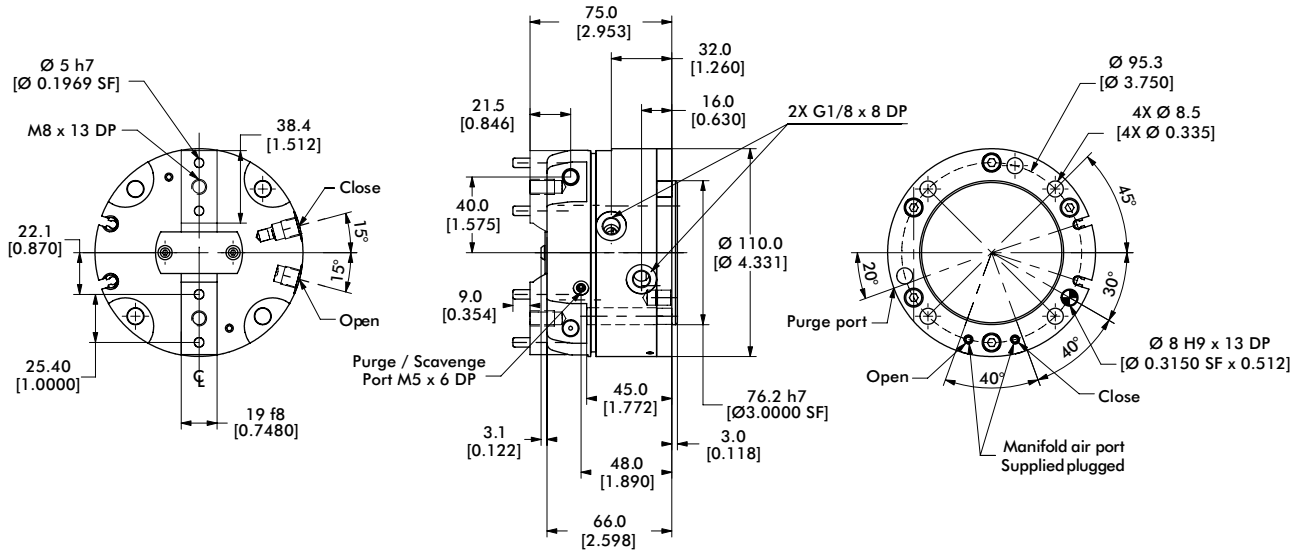


| RUA-82M                             | Static               |
|-------------------------------------|----------------------|
| Maximum Tensile <b>T</b>            | 290 N [65 lbs]       |
| Maximum Compressive <b>C</b>        | 290 N [65 lbs]       |
| Maximum Moment <b>M<sub>x</sub></b> | 19 Nm [168 in-lbs]   |
| Maximum Moment <b>M<sub>y</sub></b> | 121 Nm [1071 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 19 Nm [168 in-lbs]   |

\*Capacities are per set of jaws and are not simultaneous

# RUA-112M

## Angular Grippers | Dimensions and Technical Specifications

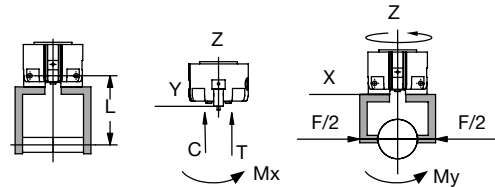
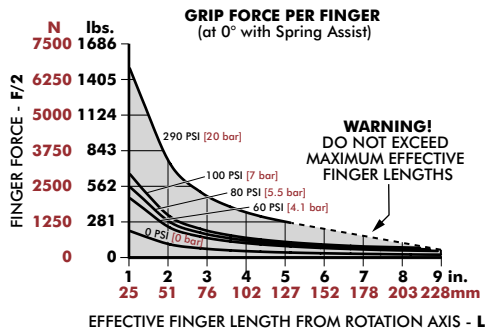


| Protective Boots                                     |  | Order #  |
|------------------------------------------------------|--|----------|
| PVC Sealed Boot Kit (2 interfaces, 1 collar, 1 boot) |  | SLKT-373 |

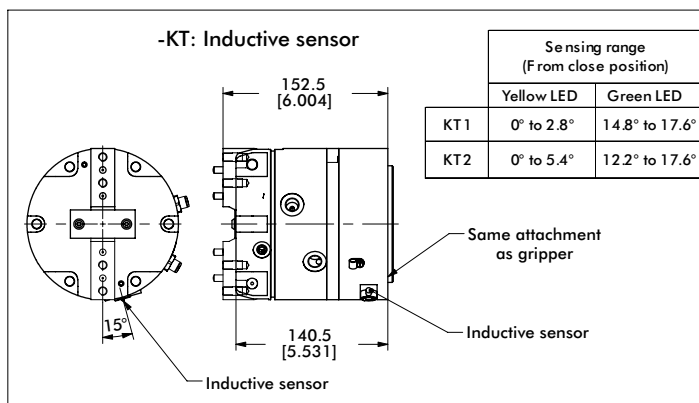
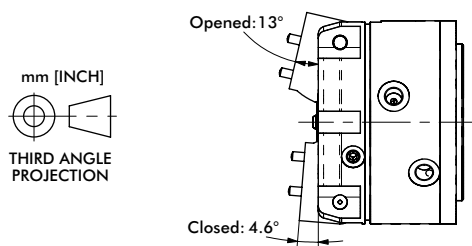
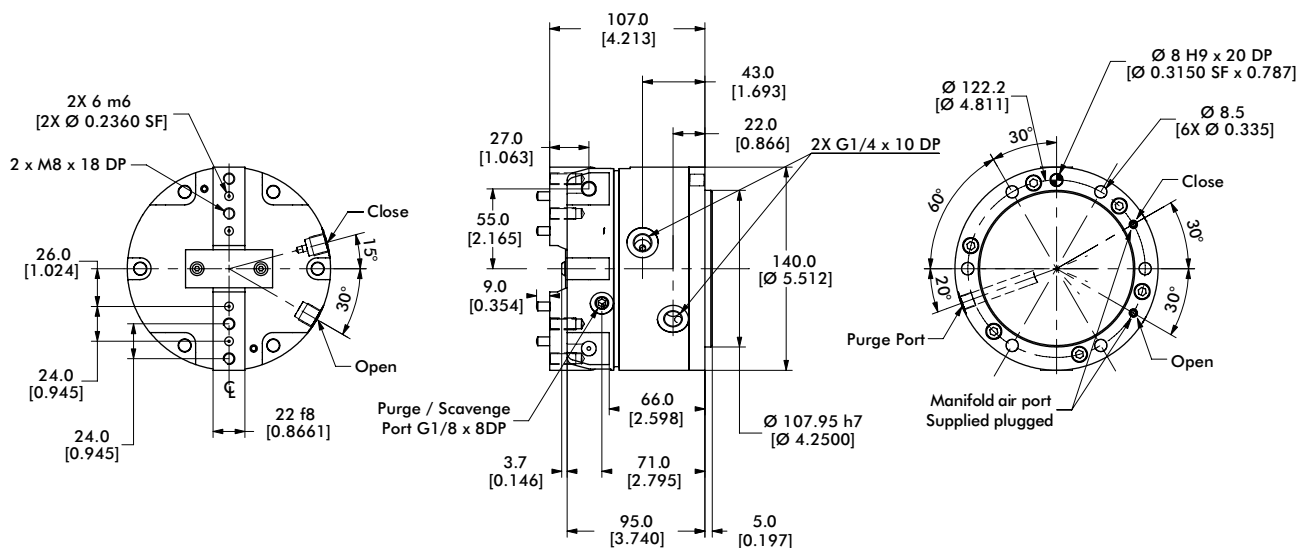
| Seal Repair Kits                  |  | Order #   |
|-----------------------------------|--|-----------|
| Seal Repair Kit Standard (Buna-N) |  | SLKT-158  |
| Seal Repair Kit (Viton®)          |  | SLKT-158V |
| Seal Repair Kit (Hydraulic)       |  | SLKT-332  |

## Loading Information



| RUA-112M                            | Static               |
|-------------------------------------|----------------------|
| Maximum Tensile <b>T</b>            | 290 N [65 lbs]       |
| Maximum Compressive <b>C</b>        | 290 N [65 lbs]       |
| Maximum Moment <b>M<sub>x</sub></b> | 19 Nm [168 in-lbs]   |
| Maximum Moment <b>M<sub>y</sub></b> | 121 Nm [1071 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 19 Nm [168 in-lbs]   |

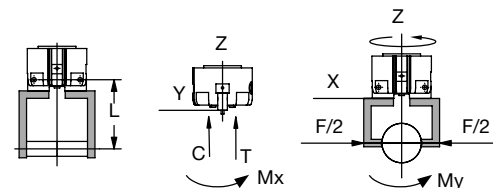
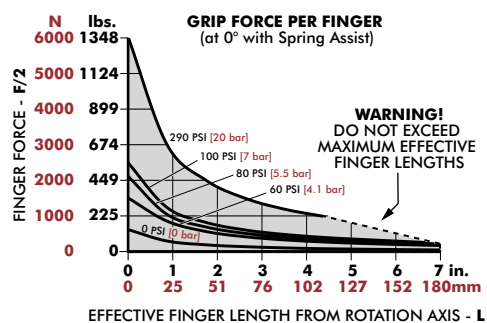
\*Capacities are per set of jaws and are not simultaneous



| Protective Boots                                     | Order #  |
|------------------------------------------------------|----------|
| PVC Sealed Boot Kit (2 interfaces, 1 collar, 1 boot) | SLKT-376 |

| Seal Repair Kits                  | Order #   |
|-----------------------------------|-----------|
| Seal Repair Kit Standard (Buna-N) | SLKT-333  |
| Seal Repair Kit (Viton®)          | SLKT-333V |
| Seal Repair Kit (Hydraulic)       | SLKT-334  |

## Loading Information

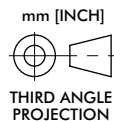
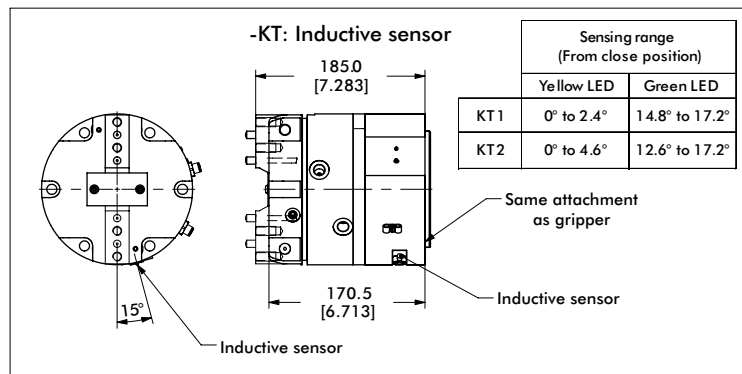
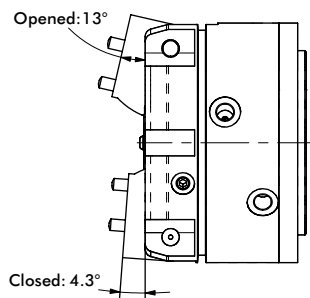
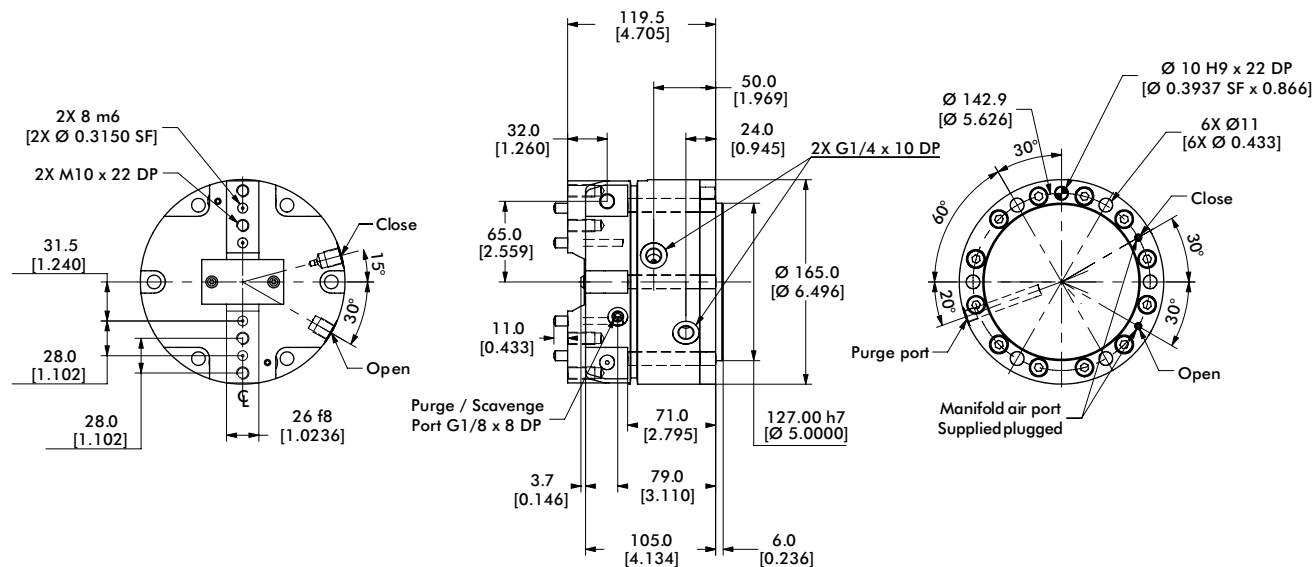


| RUA-142M                            | Static               |
|-------------------------------------|----------------------|
| Maximum Tensile <b>T</b>            | 630 N [142 lbs]      |
| Maximum Compressive <b>C</b>        | 630 N [142 lbs]      |
| Maximum Moment <b>M<sub>x</sub></b> | 52 Nm [460 in-lbs]   |
| Maximum Moment <b>M<sub>y</sub></b> | 696 Nm [6160 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 52 Nm [460 in-lbs]   |

\*Capacities are per set of jaws and are not simultaneous

# RUA-162M

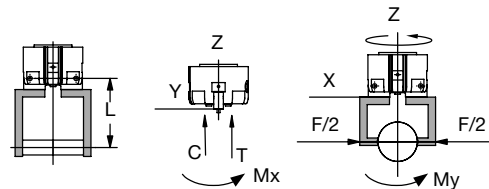
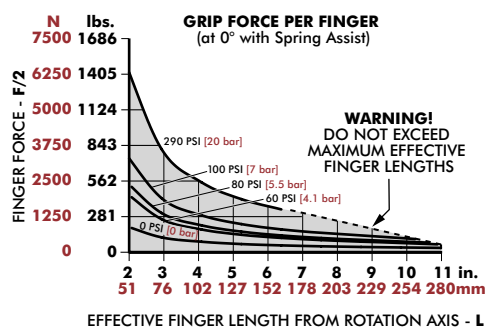
## Angular Grippers | Dimensions and Technical Specifications



| Protective Boots                                     | Order #  |
|------------------------------------------------------|----------|
| PVC Sealed Boot Kit (2 interfaces, 1 collar, 1 boot) | SLKT-379 |

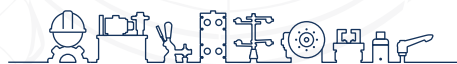
| Seal Repair Kits                  | Order #   |
|-----------------------------------|-----------|
| Seal Repair Kit Standard (Buna-N) | SLKT-335  |
| Seal Repair Kit (Viton®)          | SLKT-335V |
| Seal Repair Kit (Hydraulic)       | SLKT-336  |

## Loading Information



| RUA-162M                            | Static                |
|-------------------------------------|-----------------------|
| Maximum Tensile <b>T</b>            | 840 N [189 lbs]       |
| Maximum Compressive <b>C</b>        | 840 N [189 lbs]       |
| Maximum Moment <b>M<sub>x</sub></b> | 75 Nm [664 in-lbs]    |
| Maximum Moment <b>M<sub>y</sub></b> | 1050 Nm [9293 in-lbs] |
| Maximum Moment <b>M<sub>z</sub></b> | 75 Nm [664 in-lbs]    |

\*Capacities are per set of jaws and are not simultaneous



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