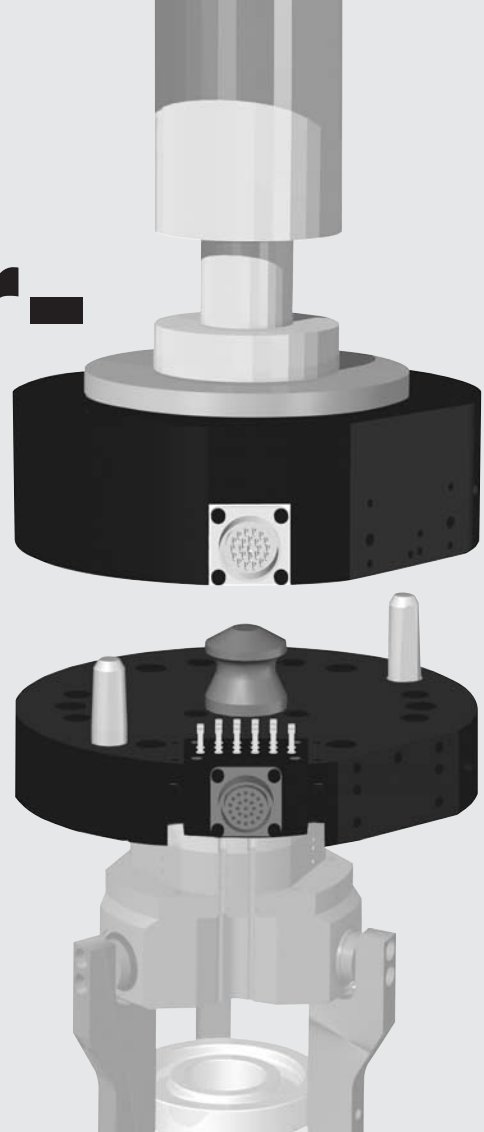


QC Series Tool Changer- Medium Loads



• Robotic applications:

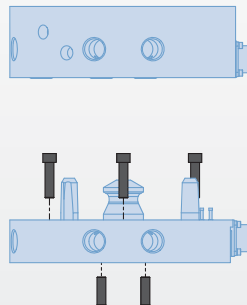
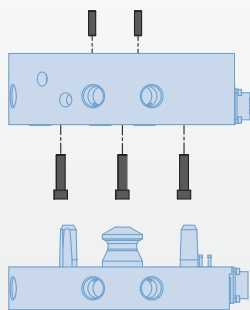
Perfect for those flexible/multiple tooling applications utilizing one Robot. This product was designed with exceptional repeatability, high rigidity & load capacity to make it ideal for any robotic application.

• Automation applications:

End effector tooling and interchangeable fixturing can be changed quickly and easily to accommodate many different styles of parts on the same assembly machine or machining center.

Mounting Information:

Robot side has counterbored holes for mounting and two dowel pins for hole location (size 30 has pilot boss)



Tool side has counterbored holes for mounting and two dowel pins for hole location (size 30 has pilot boss)

Technical Specifications:

Pneumatic Specifications

Pressure Operating Range
Cylinder Type
Valve Required to Operate

Imperial
40-100 psi
Double Acting, Spring Assist
4-way, 2-position
(except QC-30)

Metric

3-7 bar

Air Quality Requirements

Air Filtration
Air Lubrication
Air Humidity

40 Micron or Better
Not Necessary*
Low Moisture Content (dry)

Temperature Operating Range

Buna-N Seals (standard) -30°~180° F -35°~80° C

Maintenance Specifications†

| | |
|-----------------------------|----------------------|
| Expected Life | |
| Normal Application | 5 million cycles |
| w/ Preventative Maintenance | 10+ million cycles*† |
| Field Repairable | Yes |
| Seal Repair Kits Available | Yes |

† See Maintenance Section.

*Addition of lubrication will greatly increase service life

Application Restrictions

- Dirty or gritty environments
- Machining operations generating chips
- Environments with loose particulate

See Maintenance Section for:

| | |
|--|------|
| Exploded views and spare parts list..... | 8.28 |
| Drawing sections and assembly procedures | 8.29 |
| QC Series cross-reference | 8.30 |
| Tool Changer terminology | 8.64 |

Product Features

Failsafe Operation

Failsafe locking spring keeps units coupled in the event of pressure loss

Durable Components

Locking components are made from hardened bearing & tool steels

Offboard I/O Block

with heavy-duty pins offer reliable contact points

Switches for Couple/Uncouple/Ready-to-Couple

Switch for latch (size 150 only)

Module Mounting Surface

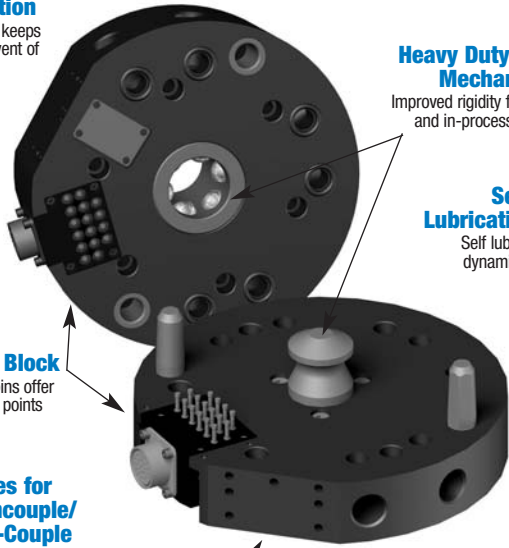
Flat for optional pneumatic, fluid or electric module

Heavy Duty Locking Mechanism

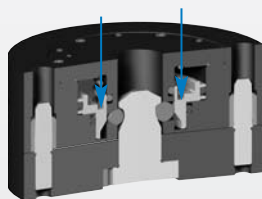
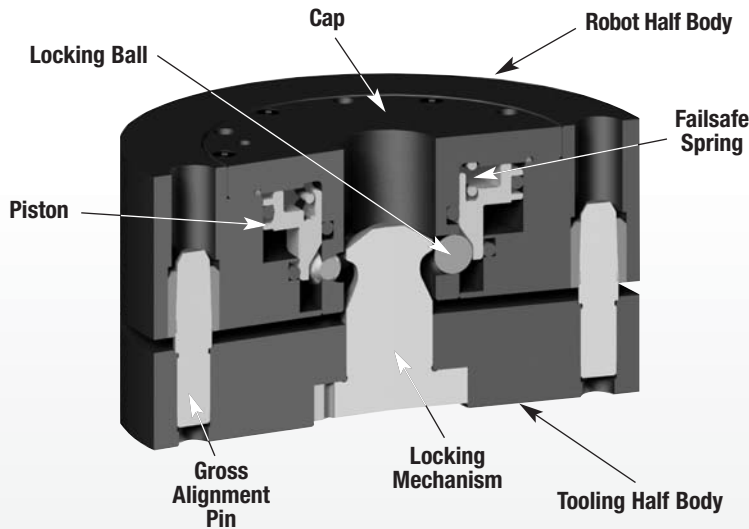
Improved rigidity for heavy-duty and in-process changing

Self Lubricating Seals

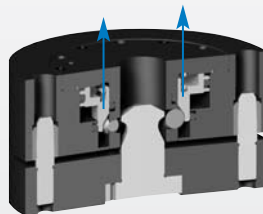
Self lubricating dynamic seals



Operating Principle



Locked Position



Unlocked Position

- The tool half is inserted into the robot half.
- The robot half has a spring assisted double acting piston (QC-30 single acting only). When the piston is actuated the locking balls are driven under the locking mechanism. Thus locking the halves together.
- The fail-safe spring maintains the piston position in the event of pressure loss and the connected units must receive air pressure to de-couple.

Style-QC Robot Half

Size-30

| Style: | QC-30 | |
|---------------|-------------|---------|
| Max. Payload: | 30 lbs. | 13.6 Kg |
| Max. Moment: | 200 in-lbs. | 22.6 Nm |
| Weight: | 0.50 lbs. | 0.23 Kg |



See Page **8.4**

Style-TP Tool Half

Size-30

| Style: | TP-30 | |
|---------------|-------------|---------|
| Max. Payload: | 30 lbs. | 13.6 Kg |
| Max. Moment: | 200 in-lbs. | 22.6 Nm |
| Weight: | 0.25 lbs. | 0.11 Kg |



See Page **8.5**

Style-QC Robot Half

Size-60

| Style: | QC-60 | |
|---------------|-------------|---------|
| Max. Payload: | 60 lbs. | 27 Kg |
| Max. Moment: | 780 in-lbs. | 88.1 Nm |
| Weight: | 1.9 lbs. | 0.86 Kg |



See Page **8.6**

Style-TP Tool Half

Size-60

| Style: | TP-60 | |
|---------------|-------------|---------|
| Max. Payload: | 60 lbs. | 27 Kg |
| Max. Moment: | 780 in-lbs. | 88.1 Nm |
| Weight: | 0.90 lbs. | 0.41 Kg |



See Page **8.7**

Style-QC Robot Half

Size-60 10-Port

| Style: | QC-60 10-Port | |
|---------------|---------------|---------|
| Max. Payload: | 60 lbs. | 27 Kg |
| Max. Moment: | 780 in-lbs. | 88.1 Nm |
| Weight: | 1.9 lbs. | 0.86 Kg |



See Page **8.8**

Style-TP Tool Half

Size-60 10-Port

| Style: | TP-60 10-Port | |
|---------------|---------------|---------|
| Max. Payload: | 60 lbs. | 27 Kg |
| Max. Moment: | 780 in-lbs. | 88.1 Nm |
| Weight: | 0.90 lbs. | 0.41 Kg |

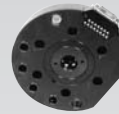


See Page **8.9**

Style-QC Robot Half

Size-150

| Style: | QC-150 | |
|---------------|--------------|--------|
| Max. Payload: | 150 lbs. | 68 Kg |
| Max. Moment: | 1900 in-lbs. | 215 Nm |
| Weight: | 4.8 lbs. | 2.2 Kg |



See Page **8.10**

Style-TP Tool Half

Size-150

| Style: | TP-150 | |
|---------------|--------------|--------|
| Max. Payload: | 150 lbs. | 68 Kg |
| Max. Moment: | 1900 in-lbs. | 215 Nm |
| Weight: | 2.3 lbs. | 1.0 Kg |

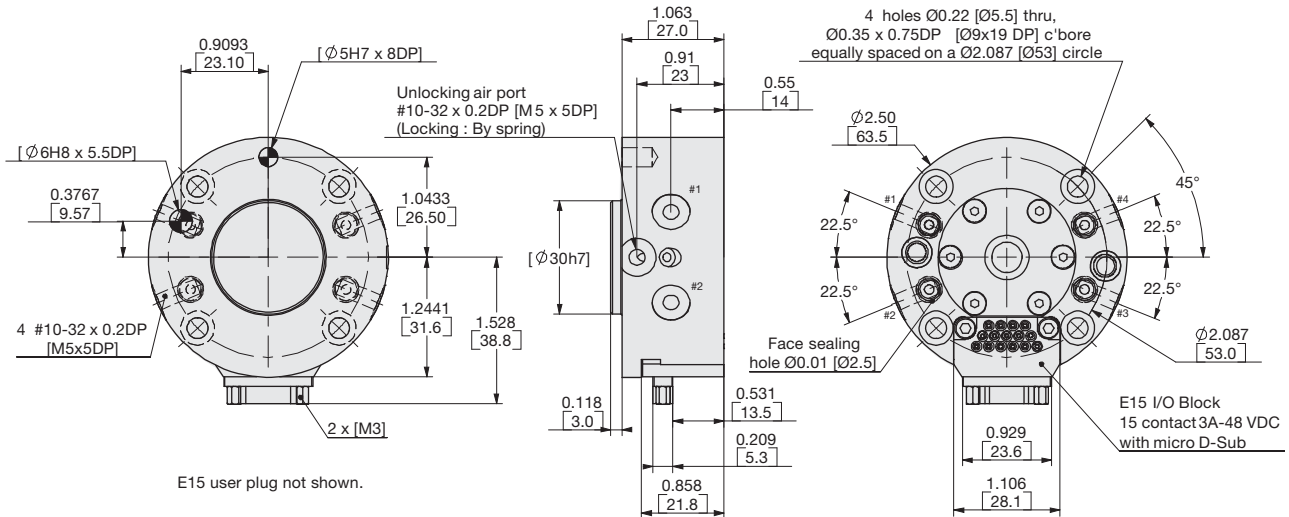


See Page **8.11**

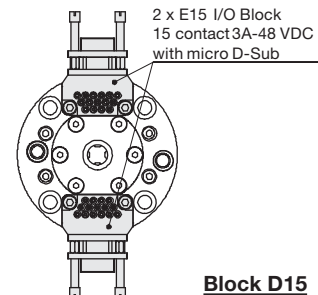
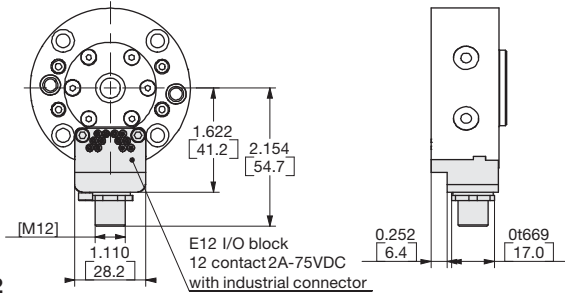
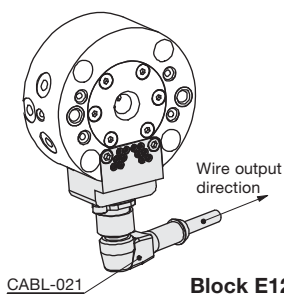
Options and Accessories

See Page **8.12**

TOOL CHANGER QC-30 ROBOT ADAPTER MODULE



E15 user plug not shown.

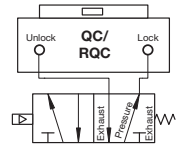


Specifications

| | QC-30 | |
|----------------------------------|----------------------|---------------------|
| Maximum Payload | 30 lbs | 13.6 Kg |
| Maximum Moment Rating | 200 in.-lbs | 22.6 Nm |
| Weight of QC Unit only | 0.50 lbs | 0.23 Kg |
| Weight of Coupled Units | 0.75 lbs | 0.34 Kg |
| Pressure Range (locked cylinder) | 40-100 psi | 3-7 bar |
| Bore Ø | 1.00 in | 25.4 mm |
| Displacement | 0.24 in ³ | 3.9 cm ³ |
| Temperature Range | -30°~180° F | -35°~80° C |
| Repeatability | ± 0.001 in. | ± 0.025 mm |
| Valve required to actuate | 3-way, 2-position | |

Failsafe operation:

4-way valves with a spring return are recommended to maintain air pressure to the lock port during emergency stop conditions.

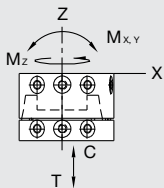


UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

| Imperial in. | Metric [mm] |
|-----------------|-------------------|
| 0.00 ± 0.01 | [0.] = [± 25] |
| 0.000 ± 0.005 | [0.0] = [± 13] |
| 0.0000 ± 0.0005 | [0.00] = [± 0.13] |

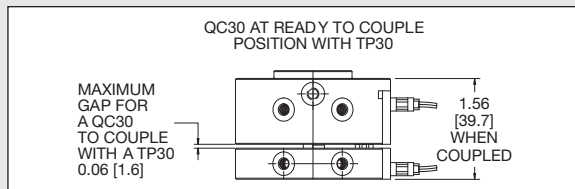
Dimensions are symmetrical about centerline
 Third Angle Projection
 All Dowel Holes are SF (Slip Fit). Locational Tolerance ±.0005" or [±.013mm]
 Metric Threads Course Pitch

Loading Information

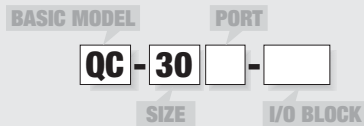


Loading Capacity

| | Imperial | Metric |
|-------------------------------------|--------------|---------|
| Maximum Tensile T | 70 lbs. | 311 N |
| Maximum Compressive C | 100 lbs. | 445 N |
| Maximum Moment M_x | 200 in.-lbs. | 22.6 Nm |
| Maximum Moment M_y | 200 in.-lbs. | 22.6 Nm |
| Maximum Moment M_z | 200 in.-lbs. | 22.6 Nm |



How to Order: (Order Accessories separately from Basic Model)



| PORT | BLANK M | Imperial Metric |
|------------|---|-----------------|
| E15 | 15 Pin I/O Block with Micro D-Sub Connector, w/1.2M Cordset | |
| D15 | 2X 15 Pin I/O Block with Micro D-Sub Conn, w/1.2M Cordset | |
| E12 | 12 Pin I/O Block with Turck M12 Connector, w/o Cordset | |
| 0 | without I/O Block | |

REPLACEMENT I/O MODULE ACCESSORIES

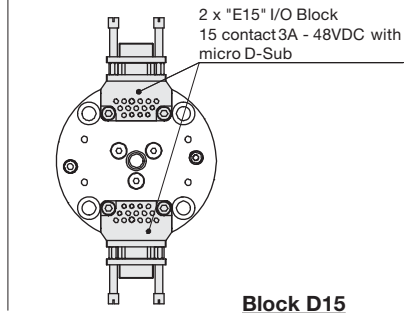
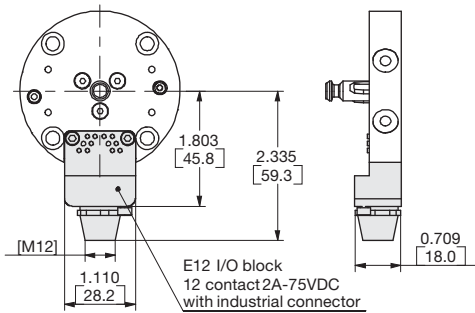
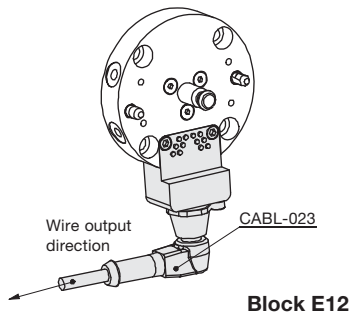
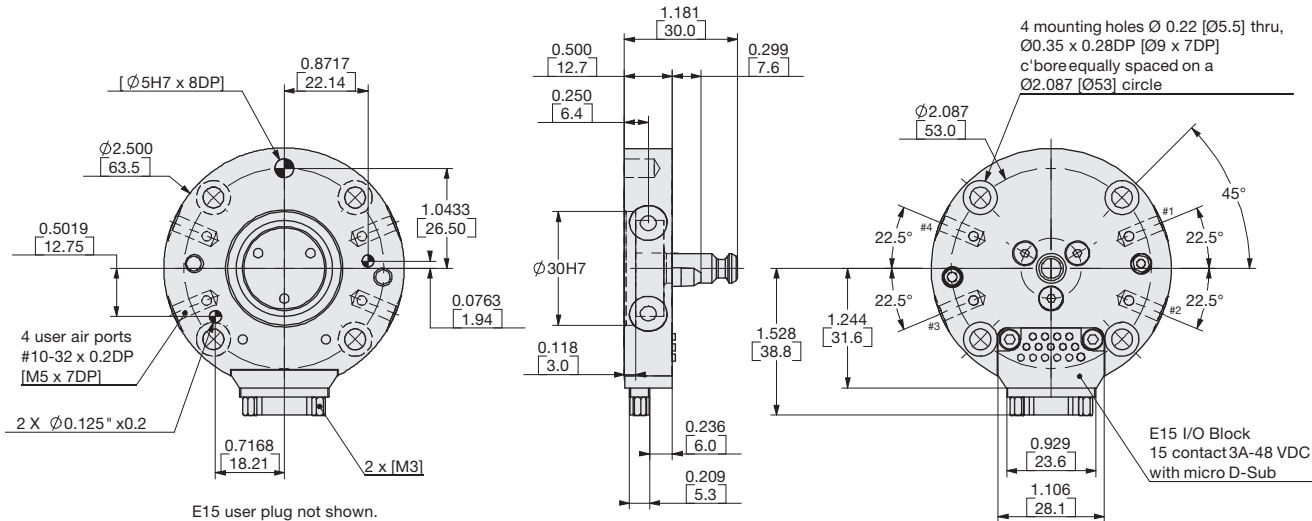
| | ORDER # | QTY/UNIT |
|---|------------------|----------|
| 15 Pin I/O Block with Micro D-Sub Connector, w/1.2M Cordset | KE15-QC30 | 1 |
| 12 Pin I/O Block with Turck M12 Connector, w/o Cordset | KE12-QC30 | 1 |
| Straight Male Cordset 1.2M for E15 | CABL-024 | 1 |
| 90° Female Cordset 4M for E12 | CABL-021 | 1 |

ADAPTER PLATES

Consult Factory

PNEUMATIC ACCESSORIES

| | | |
|----------------------|-----------------|----------|
| Seal Repair Kit | SLKT-387 | 1 |
| Face Seal Repair Kit | SLKT-388 | 1 |



Specifications

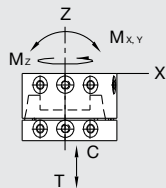
| | TP-30 | |
|-------------------------|-------------|------------|
| Maximum Payload | 30 lbs | 13.6 Kg |
| Maximum Moment Rating | 200 in.-lbs | 22.6 Nm |
| Weight of TP Unit only | 0.25 lbs | 0.11 Kg |
| Weight of Coupled Units | 0.75 lbs | 0.34 Kg |
| Temperature Range | -30°~180° F | -35°~80° C |
| Repeatability | ± 0.001 in. | ±0.025 mm |

UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

| Symbol | Imperial in. | Metric [mm] |
|--------|-----------------|------------------|
| | 0.00 = ±.01 | [.] = [±.25] |
| | 0.000 = ±.005 | [0.] = [±.13] |
| | 0.0000 = ±.0005 | [0.00] = [±.013] |

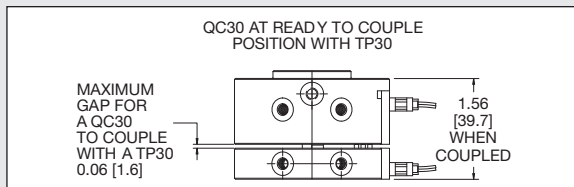
Dimensions are symmetrical about centerline
Third Angle Projection
All Dowel Holes are SF (Slip Fit). Locational Tolerance ±.0005" or [±.013mm]
Metric Threads Course Pitch

Loading Information



Loading Capacity

| | Imperial | Metric |
|-------------------------------------|--------------|---------|
| Maximum Tensile T | 70 lbs. | 311 N |
| Maximum Compressive C | 100 lbs. | 445 N |
| Maximum Moment M_x | 200 in.-lbs. | 22.6 Nm |
| Maximum Moment M_y | 200 in.-lbs. | 22.6 Nm |
| Maximum Moment M_z | 200 in.-lbs. | 22.6 Nm |



How to Order: (Order Accessories separately from Basic Model)



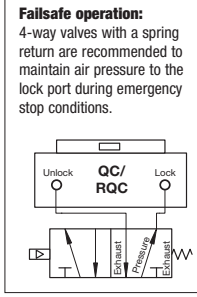
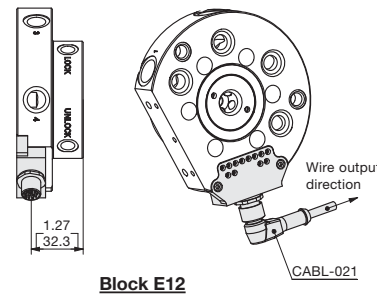
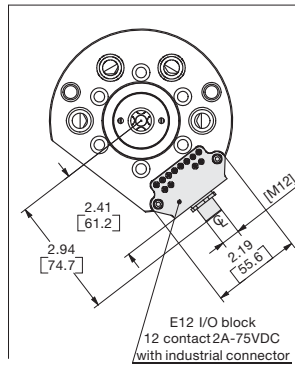
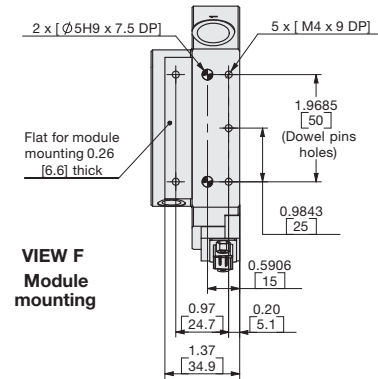
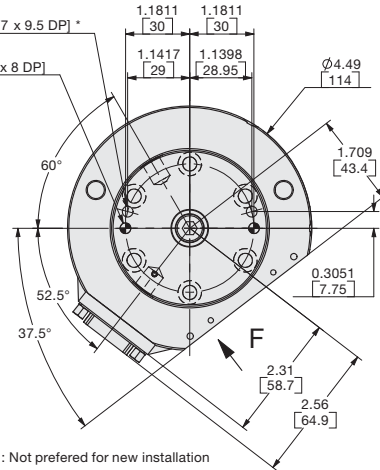
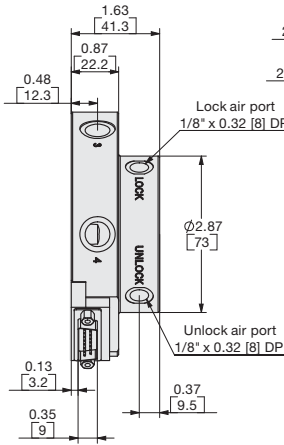
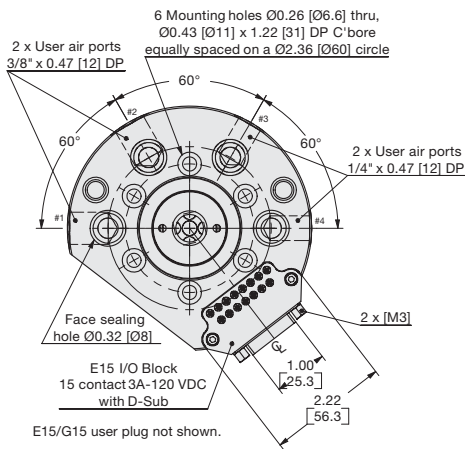
| PORT | BLANK | Imperial |
|----------|----------|----------|
| M | M | Metric |

| I/O BLOCK | Imperial |
|------------|---|
| E15 | 15 Pin I/O Block with Micro D-Sub Connector, w/1.2M Cordset |
| D15 | 2X 15 Pin I/O Block with Micro D-Sub Conn, w/1.2M Cordset |
| E12 | 12 Pin I/O Block with Turck M12 Connector, w/o Cordset |
| 0 | without I/O Block |

REPLACEMENT I/O MODULE ACCESSORIES

| | ORDER # | QTY/UNIT |
|---|------------------|----------|
| 15 Pin I/O Block with Micro D-Sub Connector, w/1.2M Cordset | KE15-TP30 | 1 |
| 12 Pin I/O Block with Turck M12 Connector, w/o Cordset | KE12-TP30 | 1 |
| Straight Male Cordset 1.2M for E15 | CABL-024 | 1 |
| 90° Male Cordset 2M for E12 | CABL-023 | 1 |

TOOL CHANGER QC-60 ROBOT ADAPTER MODULE



Specifications

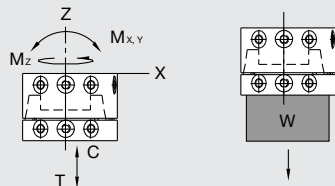
| | QC-60 | |
|----------------------------------|----------------------|---------------------|
| Maximum Payload | 60 lbs | 27 Kg |
| Maximum Moment Rating | 780 in.-lbs | 88.1 Nm |
| Weight of QC Unit only | 1.9 lb | 0.86 Kg |
| Weight of Coupled Units | 2.8 lbs | 1.27 Kg |
| Pressure Range (locked cylinder) | 40-100 psi | 3-7 bar |
| Bore \varnothing | 1.75 in. | 44.5 mm |
| Displacement | 0.56 in ³ | 9.2 cm ³ |
| Temperature Range | -30°~180° F | -35°~80° C |
| Repeatability | ± 0.001 in. | ± 0.025 mm |
| Valve required to actuate | 4-way, 2-position | |

UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

| | Imperial in. | Metric [mm] |
|--|-----------------|------------------|
| Dimensions are symmetrical about centerline | 0.00 ± 0.01 | [0.] = [±.25] |
| Third Angle Projection | 0.000 ± 0.005 | [0.0] = [±.13] |
| All Dowel Holes are SF (Slip Fit). Locational Tolerance ±.0005" or [±.013mm] | 0.0000 ± 0.0005 | [0.00] = [±.013] |
| Metric Threads Course Pitch | | |

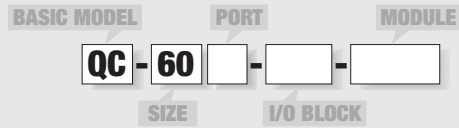
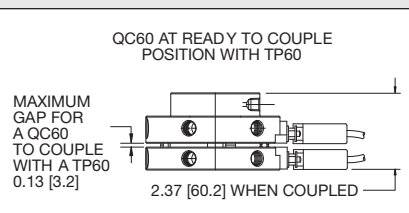
Loading Information

How to Order: (Order Accessories separately from Basic Model)



Loading Capacity

| | Imperial | Metric |
|-------------------------------------|--------------|---------|
| Maximum Tensile T | 100 lbs. | 445 N |
| Maximum Compressive C | 120 lbs. | 534 N |
| Maximum Moment M_x | 780 in.-lbs. | 88.1 Nm |
| Maximum Moment M_y | 780 in.-lbs. | 88.1 Nm |
| Maximum Moment M_z | 780 in.-lbs. | 88.1 Nm |



PORT:
Blank NPT port
M BSPP ports
A BSPT ports

I/O BLOCK

E15 15 Pin I/O Block with D-Sub Connector and User Plug, without Cable
G15* 15 Pin I/O Block Non-Recessed, with D-Sub Connector and User Plug, without Cable
E12 12 Pin I/O Block w/Turck M12 Conn, w/o Cordset
O without I/O Block

*For previous installations only. New Installations use E15.

REPLACEMENT I/O MODULE ACCESSORIES

15 Pin I/O Block with D-Sub Connector and User Plug, w/o Cable
 15 Pin I/O Block Non-Recessed, with D-Sub Connector and User Plug, w/o Cable
 12 Pin I/O Block with Turck M12 Connector, w/o Cordset
 Straight Female D-Sub User Plug, w/o Cable, Solder Type for E15/G15
 90° Female Cordset 4M for E12

ADAPTER PLATES

Consult Factory

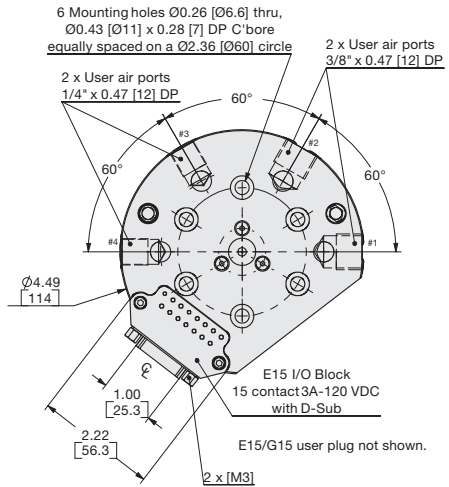
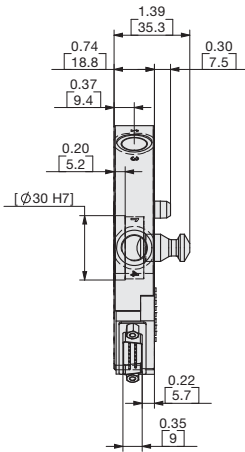
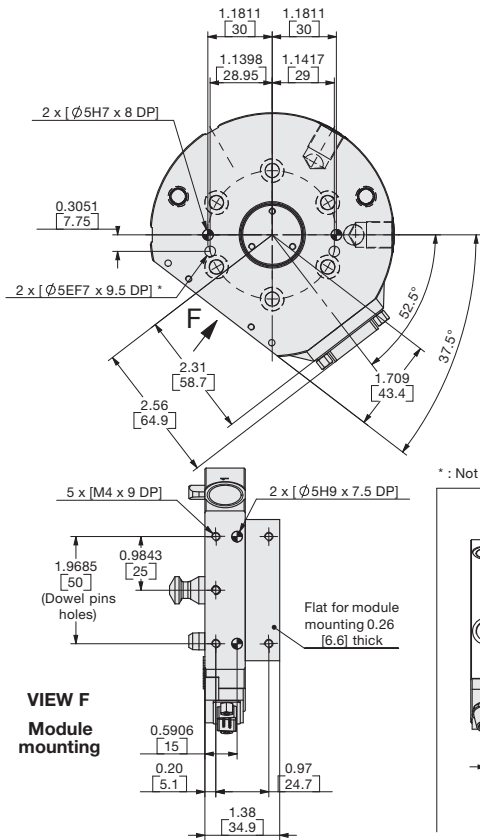
PNEUMATIC ACCESSORIES

Seal Repair Kit
 Face Seal Repair Kit

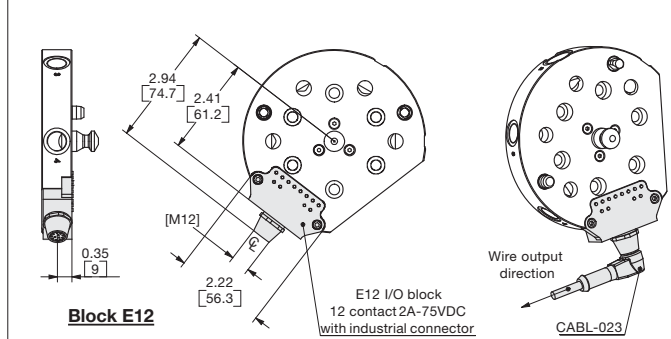
MODULE:

E26 26 pin, 5A Module w/Ind. User Connector
E19 19 pin, 5A Module w/Ind. User Connector
E10 10 pin, 13A Module w/Ind. User Connector
PN18 4X 1/8" NPT Pneumatic Ports, 10 bar
PP18 4X 1/8" BSPP Pneumatic Ports, 10 bar
PT18 4X 1/8" BSPT Pneumatic Ports, 10 bar
PN14 2X 1/4" NPT Pneumatic Ports, 10 bar
PP14 2X 1/4" BSPP Pneumatic Ports, 10 bar
PT14 2X 1/4" BSPT Pneumatic Ports, 10 bar
HN38 2X 3/8" NPT Fluid Ports, 100 bar

| ORDER # | QTY/UNIT |
|------------------|----------|
| KE15-QC60 | 1 |
| KG15-QC60 | 1 |
| KE12-QC60 | 1 |
| ELCT-047 | 1 |
| CABL-021 | 1 |
| SLKT-389 | 1 |
| SLKT-390 | 1 |



* : Not preferred for new installation



Specifications

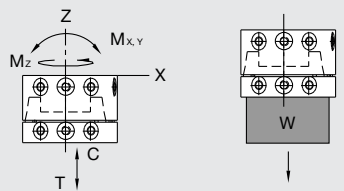
| | TP-60 | |
|-------------------------|-------------|-----------|
| Maximum Payload | 60 lbs | 27 Kg |
| Maximum Moment Rating | 780 in.-lbs | 88 Nm |
| Weight of TP Unit only | 0.90 lb | 0.41 Kg |
| Weight of Coupled Units | 2.8 lbs | 1.27 Kg |
| Temperature Range | -30~180° F | -35~80° C |
| Repeatability | ±0.001 in. | ±0.025 mm |

UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

| | Imperial in. | Metric [mm] |
|--|----------------|------------------|
| Dimensions are symmetrical about centerline | 0.00 ± .01 | [0.] = [±.25] |
| Third Angle Projection | 0.000 ± .005 | [0.0] = [±.13] |
| All Dowel Holes are SF (Slip Fit). Locational Tolerance ±.0005" or [±.013mm] | 0.0000 ± .0005 | [0.00] = [±.013] |
| Metric Threads | | |
| Course Pitch | | |

Loading Information

How to Order: (Order Accessories separately from Basic Model)



| Loading Capacity | Imperial | Metric |
|-------------------------------------|--------------|---------|
| Maximum Tensile T | 100 lbs. | 445 N |
| Maximum Compressive C | 120 lbs. | 534 N |
| Maximum Moment M_x | 780 in.-lbs. | 88.1 Nm |
| Maximum Moment M_y | 780 in.-lbs. | 88.1 Nm |
| Maximum Moment M_z | 780 in.-lbs. | 88.1 Nm |



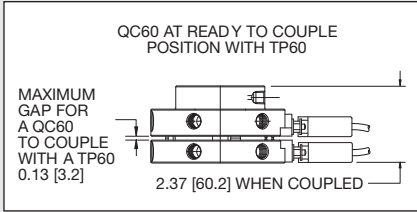
PORT:
Blank NPT port
M BSPP ports
A BSPT ports

I/O BLOCK
E15 15 Pin I/O Block with D-Sub Connector and User Plug, without Cable
G15* 15 Pin I/O Block Non-Recessed, with D-Sub Connector and User Plug, without Cable
E12 12 Pin I/O Block w/Turck M12 Conn, w/o Cordset
O without I/O Block

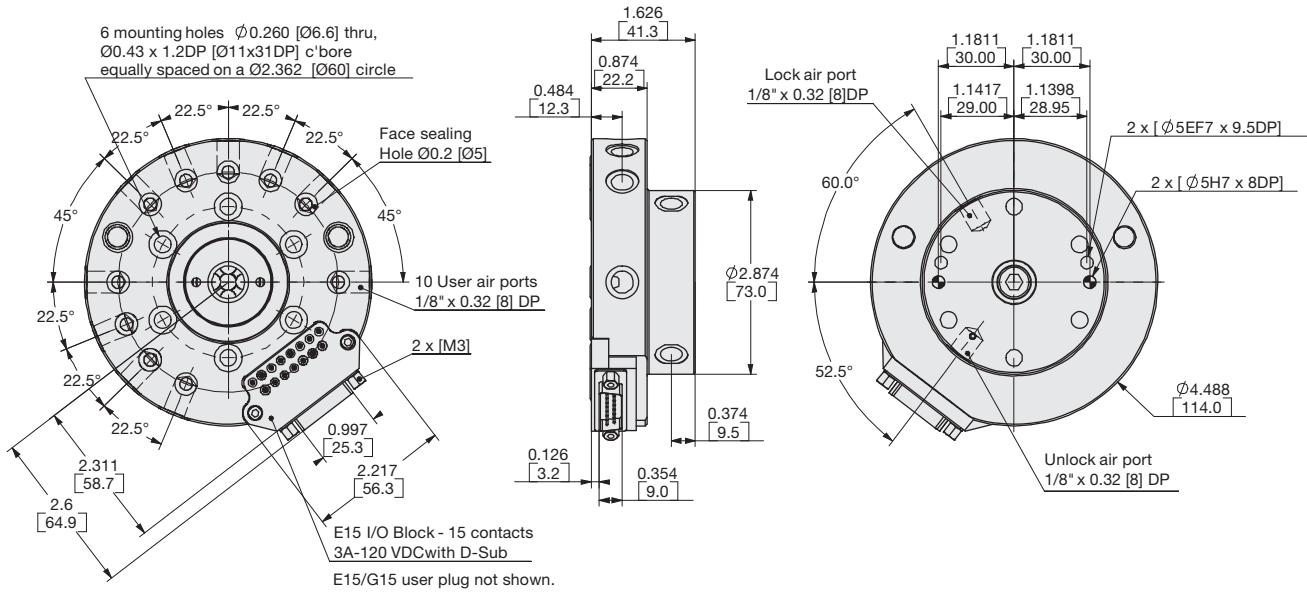
MODULE:
E26 26 pin, 5A Module w/Ind. User Connector
E19 19 pin, 5A Module w/Ind. User Connector
E10 10 pin, 13A Module w/Ind. User Connector
PN18 4X 1/8" NPT Pneumatic Ports, 10 bar
PP18 4X 1/8" BSPP Pneumatic Ports, 10 bar
PT18 4X 1/8" BSPT Pneumatic Ports, 10 bar
PN14 2X 1/4" NPT Pneumatic Ports, 10 bar
PP14 2X 1/4" BSPP Pneumatic Ports, 10 bar
PT14 2X 1/4" BSPT Pneumatic Ports, 10 bar
HN38 2X 3/8" NPT Fluid Ports, 10 bar

REPLACEMENT I/O MODULE ACCESSORIES

| | ORDER # | QTY/UNIT |
|--|------------------|----------|
| 15 Pin I/O Block with D-Sub Connector and User Plug, w/o Cable | KE15-TP60 | 1 |
| 15 Pin I/O Block Non-Recessed, with D-Sub Connector and User Plug, w/o Cable | KG15-TP60 | 1 |
| 12 Pin I/O Block with Turck M12 Connector, w/o Cordset | KE12-TP60 | 1 |
| Straight Female D-Sub User Plug, w/o Cable, Solder Type for E15/G15 | ELCT-047 | 1 |
| 90° Male Cordset 2M for E12 | CABL-023 | 1 |

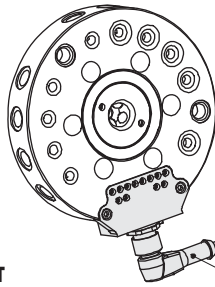
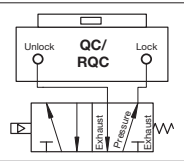


TOOL CHANGER QC-60 10-PORT ROBOT ADAPTER MODULE



Failsafe operation:

4-way valves with a spring return are recommended to maintain air pressure to the lock port during emergency stop conditions.



Wire output direction
CABL-021

E12 I/O block
12 contact 3A-75VDC
with industrial connector

Block E12

Specifications

QC-60 10-PORT

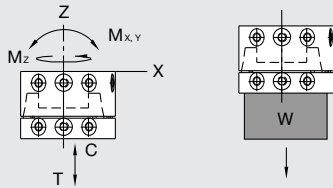
| | | |
|----------------------------------|----------------------|---------------------|
| Maximum Payload | 60 lbs | 27 Kg |
| Maximum Moment Rating | 780 in.-lbs | 88.1 Nm |
| Weight of QC Unit only | 1.9 lb | 0.86 Kg |
| Weight of Coupled Units | 2.8 lbs | 1.27 Kg |
| Pressure Range (locked cylinder) | 40-100 psi | 3-7 bar |
| Bore Ø | 1.75 in. | 44.5 mm |
| Displacement | 0.56 in ³ | 9.2 cm ³ |
| Temperature Range | -30°~180° F | -35°~80° C |
| Repeatability | ± 0.001 in. | ± 0.025 mm |
| Valve required to actuate | 4-way, 2-position | |

UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

| | | | | | |
|---|------------------------|--|-----------------------------|--|---|
| Dimensions are symmetrical about centerline | Third Angle Projection | All Dowel Holes are SF (Slip Fit). Locational Tolerance ±.0005" or [±.013mm] | Metric Threads Course Pitch | Imperial in. 0.00 = ±.01 0.000 = ±.005 0.0000 = ±.0005 | Metric [mm] [0.] = [±.25] [0.0] = [±.13] [0.00] = [±.013] |
|---|------------------------|--|-----------------------------|--|---|

Loading Information

How to Order: (Order Accessories separately from Basic Model)

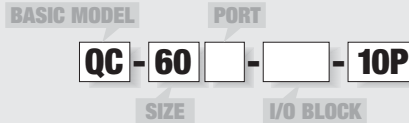
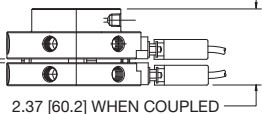


Loading Capacity

| | Imperial | Metric |
|-------------------------------------|--------------|---------|
| Maximum Tensile T | 100 lbs. | 445 N |
| Maximum Compressive C | 120 lbs. | 534 N |
| Maximum Moment M_x | 780 in.-lbs. | 88.1 Nm |
| Maximum Moment M_y | 780 in.-lbs. | 88.1 Nm |
| Maximum Moment M_z | 780 in.-lbs. | 88.1 Nm |

QC60 AT READY TO COUPLE POSITION WITH TP60

MAXIMUM GAP FOR A QC60 TO COUPLE WITH A TP60 0.13 [3.2]



PORT:

- Blank** NPT port
- M** BSPP ports
- A** BSPT ports

I/O BLOCK

- E15** 15 Pin I/O Block with D-Sub Connector and User Plug, w/o Cable
- G15*** 15 Pin I/O Block Non-Recessed, w/D-Sub Connector and User Plug, w/o Cable
- E12** 12 Pin I/O Block w/Turk M12 Connector, w/o Cordset
- 0** without I/O Block

*For previous installations only. New Installations use E15.

REPLACEMENT I/O MODULE ACCESSORIES

| | ORDER # | QTY/UNIT |
|--|------------------|----------|
| 15 Pin I/O Block with D-Sub Connector and User Plug, w/o Cable | KE15-QC60 | 1 |
| 15 Pin I/O Block Non-Recessed, w/D-Sub Connector, User Plug, w/o Cable | KG15-QC60 | 1 |
| 12 Pin I/O Block with Turk M12 Connector, w/o Cordset | KE12-QC60 | 1 |
| Straight Female D-Sub User Plug, w/o Cable, Solder Type for E15/G15 | ELCT-047 | 1 |
| 90° Female Cordset 4M for E12 | CABL-021 | |

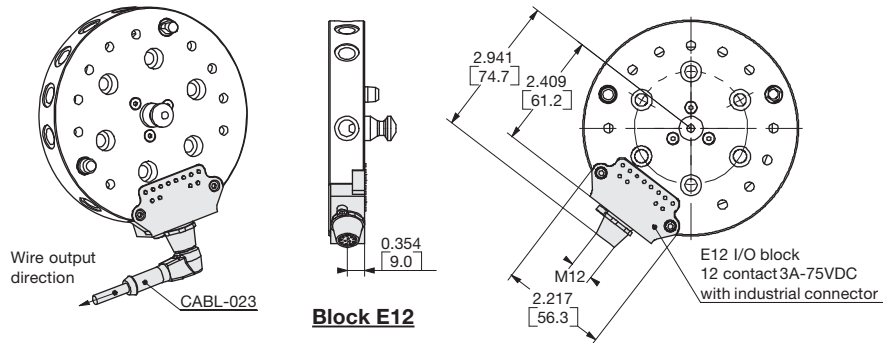
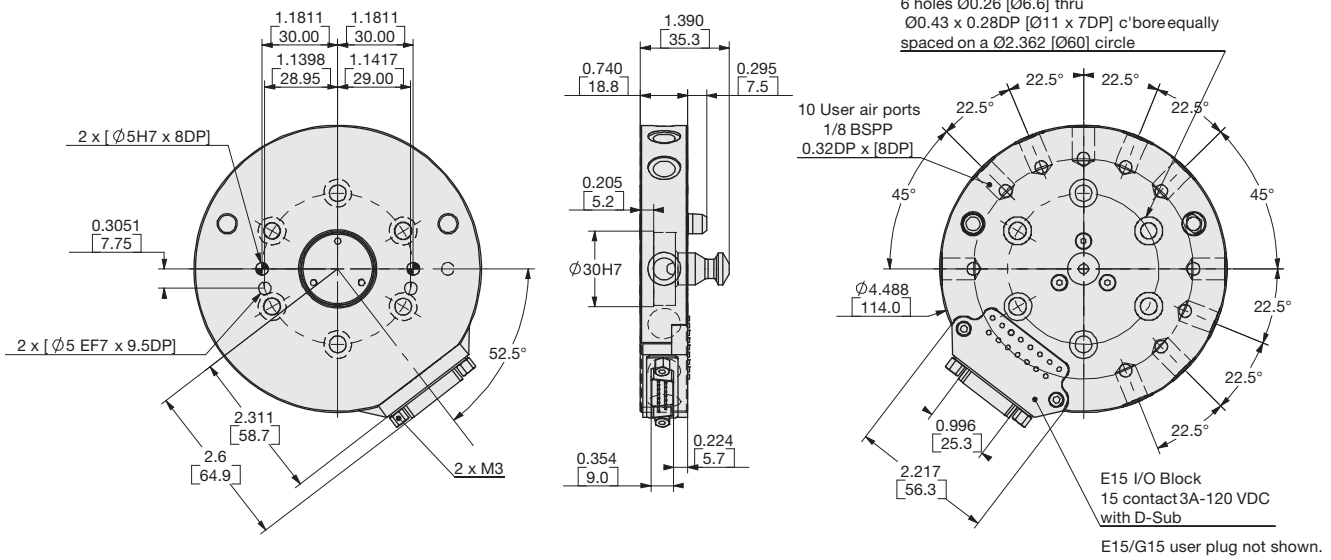
ADAPTER PLATES

Consult Factory

PNEUMATIC ACCESSORIES

| | | |
|----------------------|-----------------|----------|
| Seal Repair Kit | SLKT-389 | 1 |
| Face Seal Repair Kit | SLKT-392 | 1 |

TOOL CHANGER TP-60 10-PORT TOOLING ADAPTER MODULE



Specifications

TP-60 10-PORT

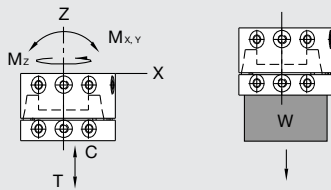
| | | |
|------------------------------|-------------|------------|
| Maximum Payload..... | 60 lbs | 27 Kg |
| Maximum Moment Rating..... | 780 in.-lbs | 88 Nm |
| Weight of TP Unit only..... | 0.90 lb | 0.41 Kg |
| Weight of Coupled Units..... | 2.8 lbs | 1.27 Kg |
| Temperature Range..... | -30°~180° F | -35°~80° C |
| Repeatability..... | ± 0.001 in. | ±0.025 mm |

UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

| | | | | | |
|---|------------------------|--|--------------------------------|--|---|
| Dimensions are symmetrical about centerline | Third Angle Projection | All Dowel Holes are SF (Slip Fit). Locational Tolerance ±.0005" or [±.013mm] | Metric Threads Course Pitch | Imperial in. 0.00 = ±.01 0.000 = ±.005 0.0000 = ±.0005 | Metric [mm] [0.] = [±.25] [0.0] = [±.13] [0.00] = [±.013] |
|---|------------------------|--|--------------------------------|--|---|

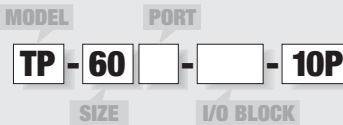
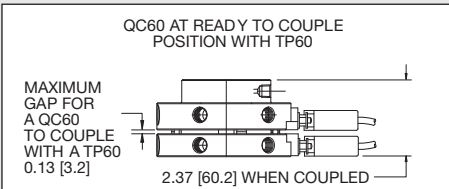
Loading Information

How to Order: (Order Accessories separately from Basic Model)



Loading Capacity

| | Imperial | Metric |
|-------------------------------------|--------------|---------|
| Maximum Tensile T | 100 lbs. | 445 N |
| Maximum Compressive C | 120 lbs. | 534 N |
| Maximum Moment M_x | 780 in.-lbs. | 88.1 Nm |
| Maximum Moment M_y | 780 in.-lbs. | 88.1 Nm |
| Maximum Moment M_z | 780 in.-lbs. | 88.1 Nm |



PORT:

- Blank** NPT port
- M** BSPP ports
- A** BSPT ports

I/O BLOCK

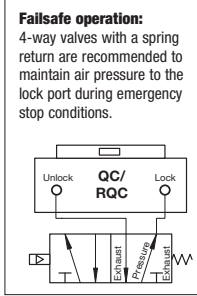
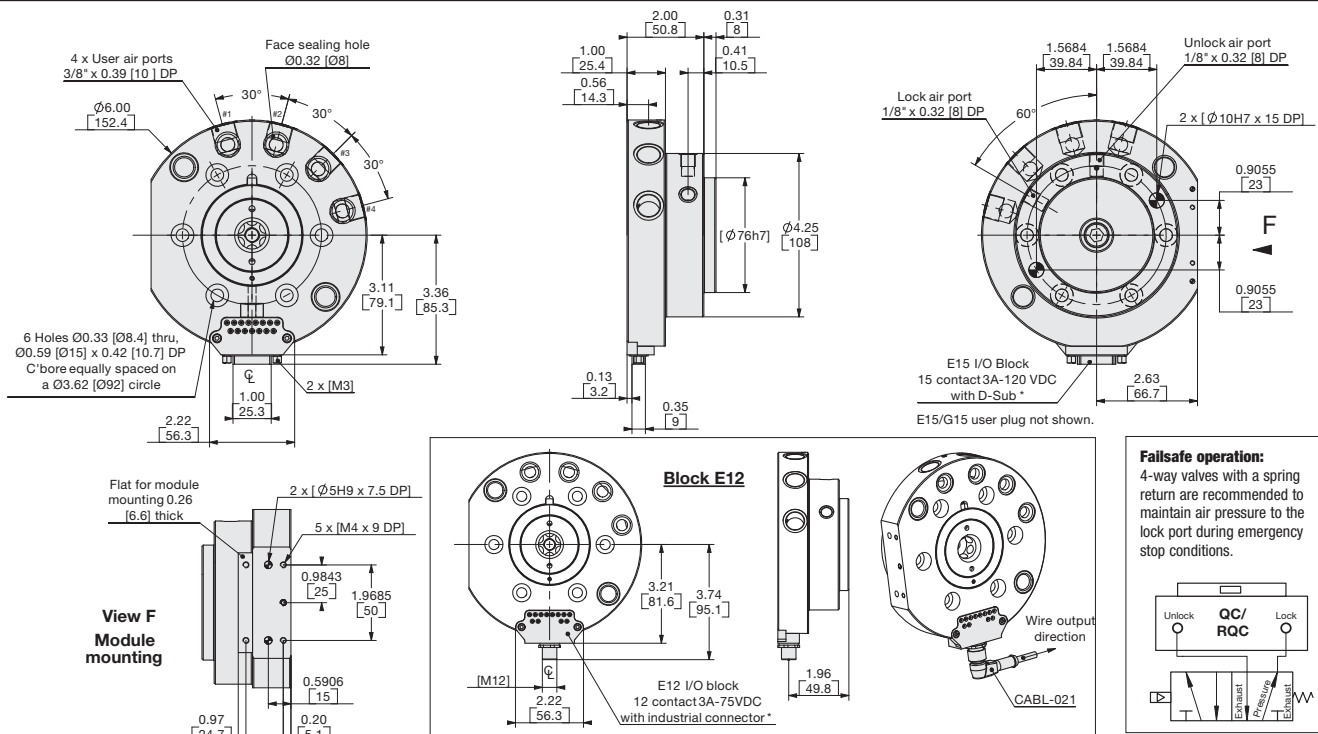
- E15** 15 Pin I/O Block with D-Sub Connector and User Plug, w/o Cable
- G15*** 15 Pin I/O Block Non-Recessed, w/D-Sub Connector and User Plug, w/o Cable
- E12** 12 Pin I/O Block w/Turk M12 Connector, w/o Cordset
- 0** without I/O Block

*For previous installations only. New Installations use E15.

REPLACEMENT I/O MODULE ACCESSORIES

| | ORDER # | QTY/UNIT |
|--|------------------|----------|
| 15 Pin I/O Block with D-Sub Connector and User Plug, w/o Cable | KE15-TP60 | 1 |
| 15 Pin I/O Block Non-Recessed, w/D-Sub Connector, User Plug, w/o Cable | KG15-TP60 | 1 |
| 12 Pin I/O Block with Turk M12 Connector, w/o Cordset | KE12-TP60 | 1 |
| Straight Female D-Sub User Plug, w/o Cable, Solder Type for E15/G15 | ELCT-047 | 1 |
| 90° Male Cordset 2M for E12 | CABL-023 | 1 |

TOOL CHANGER QC-150 ROBOT ADAPTER MODULE



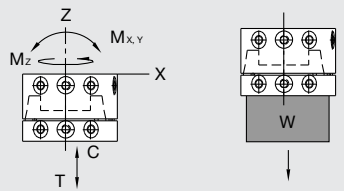
Specifications

| | QC-150 | |
|----------------------------------|----------------------|----------------------|
| Maximum Payload | 150 lbs | 68 Kg |
| Maximum Moment Rating | 1900 in.-lbs | 215 Nm |
| Weight of QC Unit | 4.8 lb | 2.2 Kg |
| Weight of Coupled Units | 7.1 lbs | 3.2 Kg |
| Pressure Range (locked cylinder) | 40-100 psi | 3-7 bar |
| Bore Ø | 2.63 in. | 66.8 mm |
| Displacement | 1.55 in ³ | 25.4 cm ³ |
| Temperature Range | -30°~180° F | -35°~80° C |
| Repeatability | ±0.001 in. | ±0.025 mm |
| Valve required to actuate | 4-way, 2-position | |

UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

| | Imperial in. | Metric [mm] |
|--|-----------------|------------------|
| Dimensions are symmetrical about centerline | 0.00 = ±.01 | [0.] = [±.25] |
| Third Angle Projection | 0.000 = ±.005 | [0.0] = [±.13] |
| All Dowel Holes are SF (Slip Fit). Locational Tolerance ±.0005" or [±.013mm] | 0.0000 = ±.0005 | [0.00] = [±.013] |

Loading Information



| Loading Capacity | Imperial | Metric |
|-------------------------------------|---------------|--------|
| Maximum Tensile T | 200 lbs. | 890 N |
| Maximum Compressive C | 300 lbs. | 1334 N |
| Maximum Moment M_x | 1900 in.-lbs. | 214 Nm |
| Maximum Moment M_y | 1900 in.-lbs. | 214 Nm |
| Maximum Moment M_z | 1900 in.-lbs. | 214 Nm |

How to Order: (Order Accessories separately from Basic Model)

PORT:
Blank NPT port
M BSPP ports
A BSPT ports

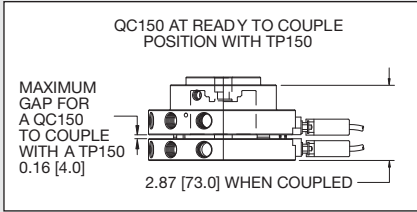
I/O BLOCK:
E15 15 Pin I/O Block with D-Sub Connector and User Plug, without Cable
G15* 15 Pin I/O Block Non-Recessed, with D-Sub Connector and User Plug, without Cable
E12 12 Pin I/O Block w/Turck M12 Conn, w/o Cordset
0 without I/O Block

SENSING:
LP PNP Inductive Latch Sensor
LN NPN Inductive Latch Sensor
0 without Sensing

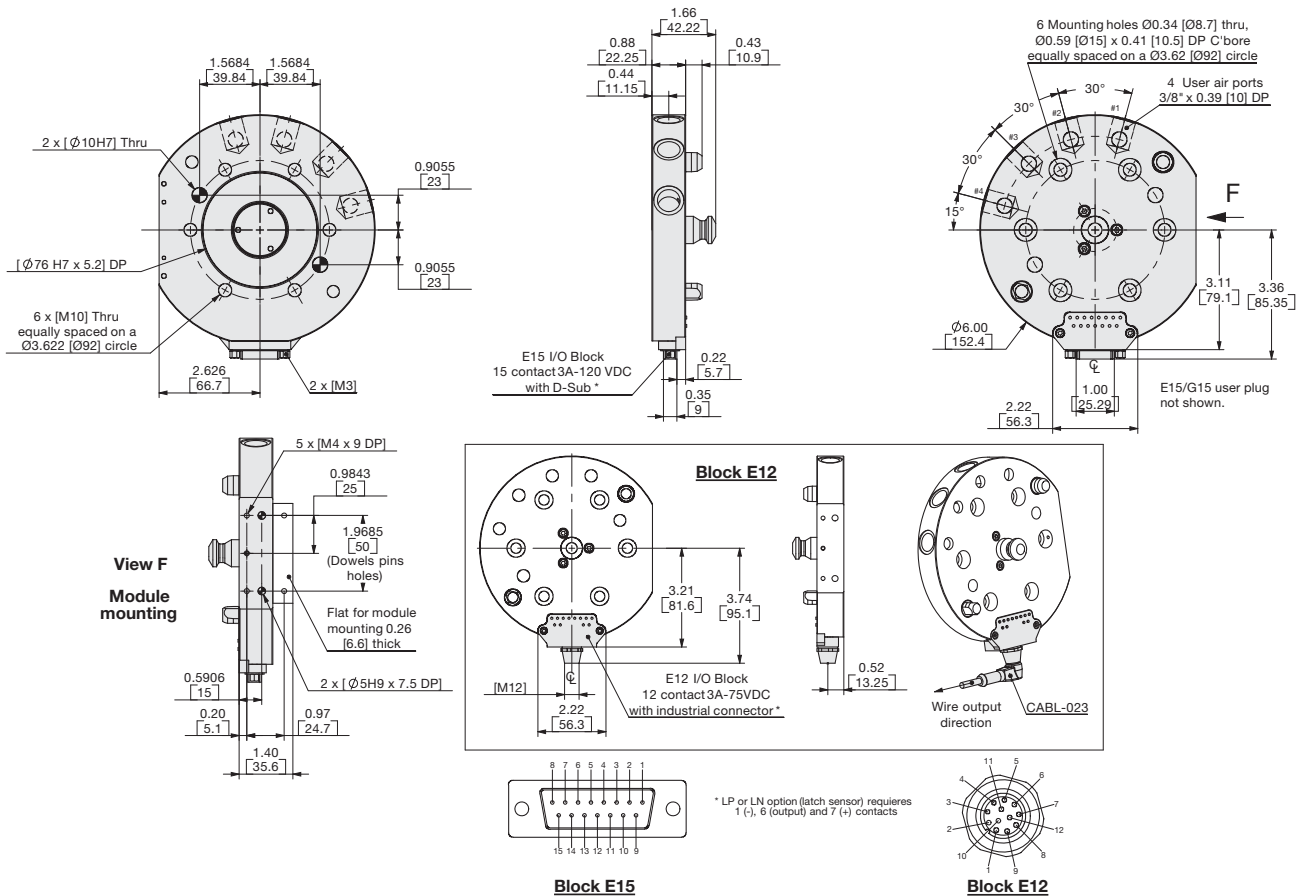
*For previous installations only. New Installations use E15.

REPLACEMENT I/O MODULE ACCESSORIES

| | ORDER # | QTY/UNIT |
|--|------------|----------|
| 15 Pin I/O Block with D-Sub Connector and User Plug, w/o Cable | KE15-QC150 | 1 |
| 15 Pin I/O Block Non-Recessed, w/D-Sub Connector, User Plug, w/o Cable | KG15-QC150 | 1 |
| 12 Pin I/O Block with Turck M12 Connector, w/o Cordset | KE12-QC150 | 1 |
| Straight Female D-Sub User Plug, w/o Cable, Solder Type for E15/G15 | ELCT-047 | 1 |
| 90° Female Cordset 4M for E12 | CABL-021 | 1 |
| NPN Inductive Sensor Repair Kit | OSRK-009 | 1 |
| PNP Inductive Sensor Repair Kit | OSRK-010 | 1 |



QC SERIES
8.10



Specifications

TP-150

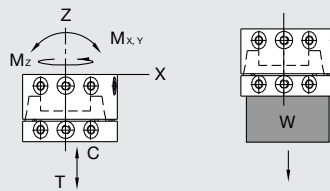
| | | |
|------------------------------|--------------|------------|
| Maximum Payload..... | 150 lbs | 68 Kg |
| Maximum Moment Rating..... | 1900 in.-lbs | 215 Nm |
| Weight of TP Unit only..... | 2.3 lb | 1.0 Kg |
| Weight of Coupled Units..... | 7.1 lbs | 3.2 Kg |
| Temperature Range..... | -30°~180° F | -35°~80° C |
| Repeatability..... | ± 0.001 in. | ±0.025 mm |

UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

| | | | | | |
|---|------------------------|--|-----------------------------|--|---|
| Dimensions are symmetrical about centerline | Third Angle Projection | All Dowel Holes are SF (Slip Fit). Locational Tolerance ±.0005" or [±.013mm] | Metric Threads Course Pitch | Imperial in. 0.00 = ±.01 0.000 = ±.005 0.0000 = ±.0005 | Metric [mm] [0.] = [±.25] [0.0] = [±.13] [0.00] = [±.013] |
|---|------------------------|--|-----------------------------|--|---|

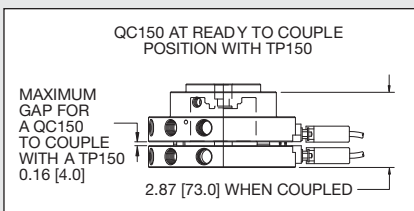
Loading Information

How to Order: (Order Accessories separately from Basic Model)



Loading Capacity

| | Imperial | Metric |
|-------------------------------------|---------------|--------|
| Maximum Tensile T | 200 lbs. | 890 N |
| Maximum Compressive C | 300 lbs. | 1334 N |
| Maximum Moment M_x | 1900 in.-lbs. | 214 Nm |
| Maximum Moment M_y | 1900 in.-lbs. | 214 Nm |
| Maximum Moment M_z | 1900 in.-lbs. | 214 Nm |



PORT:

- Blank** NPT port
- M** BSPP ports
- A** BSPT ports

I/O BLOCK

- E15** 15 Pin I/O Block with D-Sub Connector and User Plug, without Cable
- G15*** 15 Pin I/O Block Non-Recessed, with D-Sub Connector and User Plug, without Cable
- E12** 12 Pin I/O Block w/Turck M12 Conn, w/o Cordset
- 0** without I/O Block

*For previous installations only. New Installations use E15.

REPLACEMENT I/O MODULE ACCESSORIES

- 15 Pin I/O Block with D-Sub Connector and User Plug, w/o Cable
- 15 Pin I/O Block Non-Recessed, w/D-Sub Connector, User Plug, w/o Cable
- 12 Pin I/O Block with Turck M12 Connector, w/o Cordset
- Straight Female D-Sub User Plug, w/o Cable, Solder Type for E15/G15
- 90° Male Cordset 2M for E12

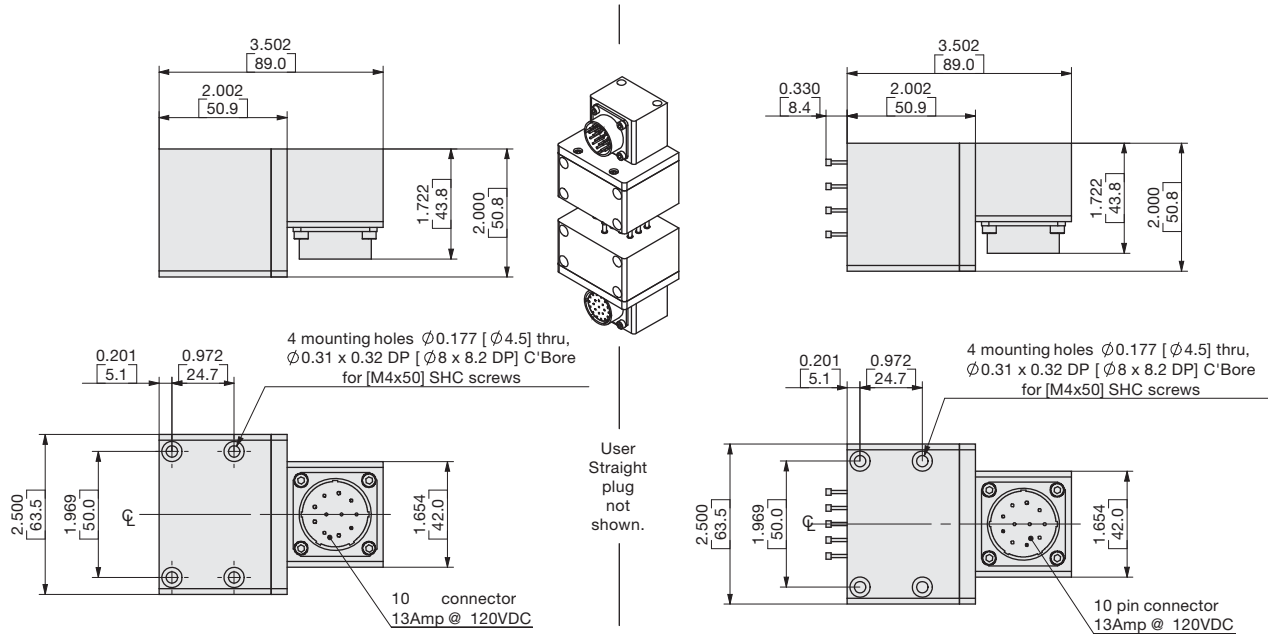
MODULE:

- E26** 26 pin, 5A Module w/Ind. User Connector
- E19** 19 pin, 5A Module w/Ind. User Connector
- E10** 10 pin, 13A Module w/Ind. User Connector
- PN18** 4X 1/8" NPT Pneumatic Ports, 10 bar
- PP18** 4X 1/8" BSPP Pneumatic Ports, 10 bar
- PT18** 4X 1/8" BSPT Pneumatic Ports, 10 bar
- PN14** 2X 1/4" NPT Pneumatic Ports, 10 bar
- PP14** 2X 1/4" BSPP Pneumatic Ports, 10 bar
- PT14** 2X 1/4" BSPT Pneumatic Ports, 10 bar
- HN38** 2X 3/8" NPT Fluid Ports, 100 bar

ORDER # QTY/UNIT

| ORDER # | QTY/UNIT |
|-------------------|----------|
| KE15-TP150 | 1 |
| KG15-TP150 | 1 |
| KE12-TP150 | 1 |
| ELCT-047 | 1 |
| CABL-023 | 1 |

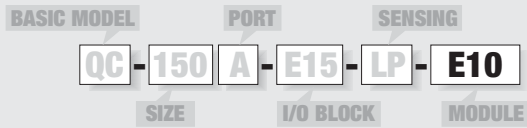
10 Pin Module 13Amp @ 120VDC (E10) For QC/TP-60 & QC/TP-150



Flat for module mounting not shown: See QC or TP drawings.

ROBOT HALF MODULES:

How to Order Modules:



MODULE FOR QC-60

| PREMOUNTED | SEPARATE | |
|------------|-----------|---|
| E10 | KE10-QC60 | 10 pin 13A Module with Industrial User Connector, without Cable |

MODULE FOR QC-150

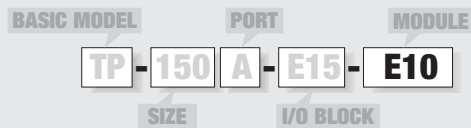
| PREMOUNTED | SEPARATE | |
|------------|------------|---|
| E10 | KE10-QC150 | 10 pin 13A Module with Industrial User Connector, without Cable |

ACCESSORIES:

| | |
|----------|--|
| ELCT-041 | Straight female plug (w/o cable), solder type, cable clamp |
|----------|--|

TOOL HALF MODULES:

How to Order Modules:



MODULE FOR TP-60

| PREMOUNTED | SEPARATE | |
|------------|-----------|---|
| E10 | KE10-TP60 | 10 pin 13A Module with Industrial User Connector, without Cable |

MODULE FOR TP-150

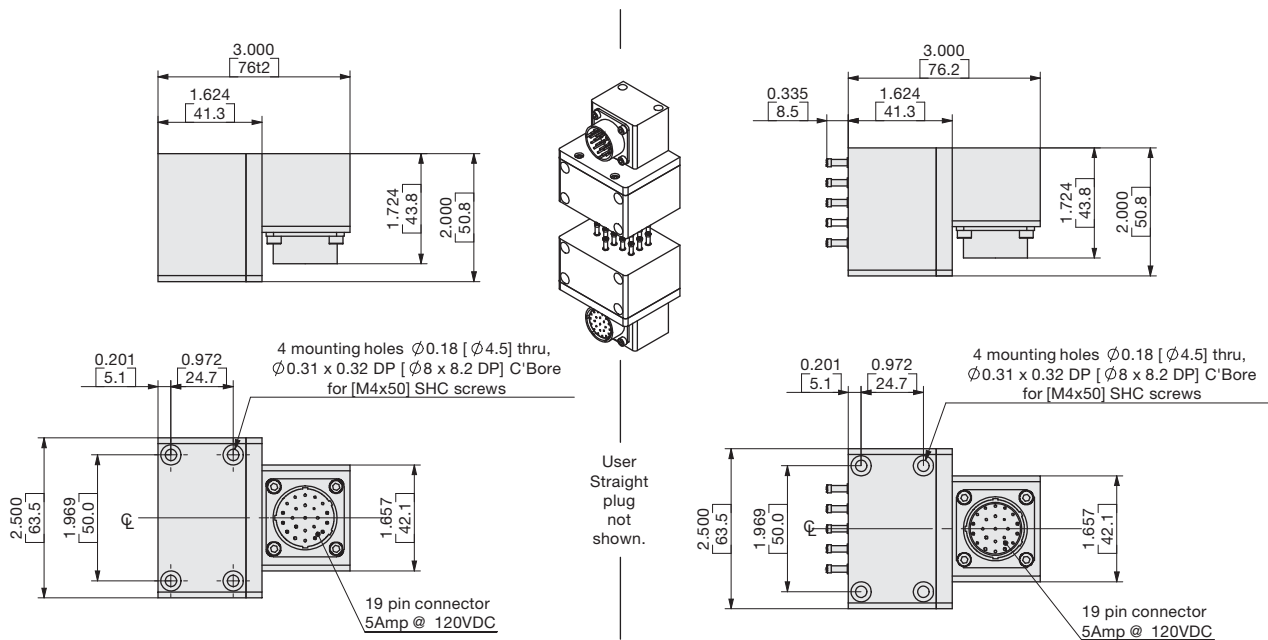
| PREMOUNTED | SEPARATE | |
|------------|------------|---|
| E10 | KE10-TP150 | 10 pin 13A Module with Industrial User Connector, without Cable |

ACCESSORIES:

| | |
|----------|--|
| ELCT-042 | Straight male plug (w/o cable), solder type, cable clamp |
|----------|--|

Module kits above include: Flat for module mounting, straight plug (without cable), locating pins and hardware.

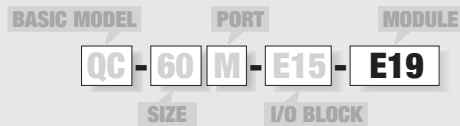
19 Pin Module 5Amp @ 120VDC (E19) For QC/TP-60 & QC/TP-150



Flat for module mounting not shown: See QC or TP drawings.

ROBOT HALF MODULES:

How to Order Modules:



MODULE FOR QC-60

PREMOUNTED SEPARATE

E19 KE19-QC60 19 pin 5A Module with Industrial User Connector, without Cable

MODULE FOR QC-150

PREMOUNTED SEPARATE

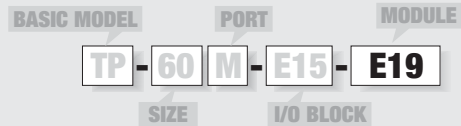
E19 KE19-QC150 19 pin 5A Module with Industrial User Connector, without Cable

ACCESSORIES:

ELCT-043 Straight female plug (w/o cable), solder type, cable clamp

TOOL HALF MODULES:

How to Order Modules:



MODULE FOR TP-60

PREMOUNTED SEPARATE

E19 KE19-TP60 19 pin 5A Module with Industrial User Connector, without Cable

MODULE FOR TP-150

PREMOUNTED SEPARATE

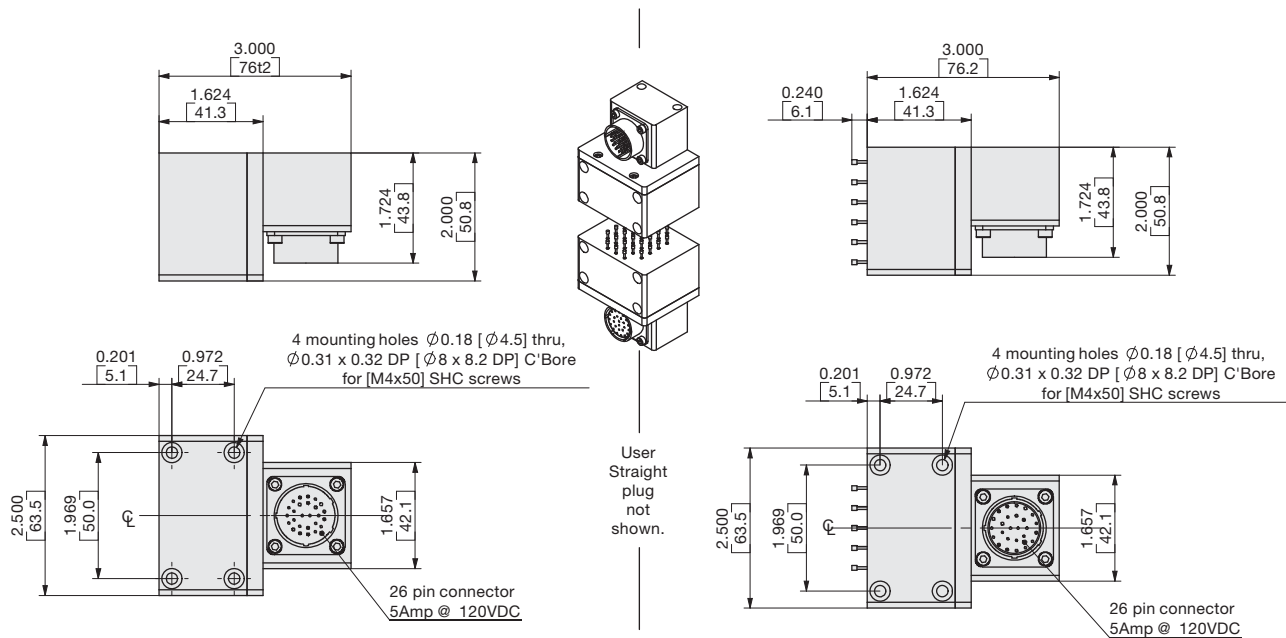
E19 KE19-TP150 19 pin 5A Module with Industrial User Connector, without Cable

ACCESSORIES:

ELCT-044 Straight male plug (w/o cable), solder type, cable clamp

Module kits above include: Flat for module mounting, straight plug (without cable), locating pins and hardware.

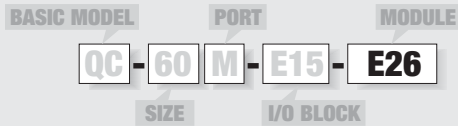
26 Pin Module 5Amp @ 120VDC (E26) For QC/TP-60 & QC/TP-150



Flat for module mounting not shown: See QC or TP drawings.

ROBOT HALF MODULES:

How to Order Modules:



MODULE FOR QC-60

PREMOUNTED SEPARATE

| | | |
|------------|------------------|--|
| E26 | KE26-QC60 | 26 pin 5A Module with Industrial User Connector, without Cable |
|------------|------------------|--|

MODULE FOR QC-150

PREMOUNTED SEPARATE

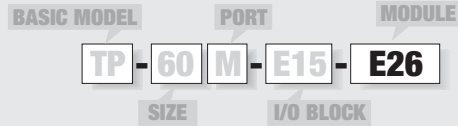
| | | |
|------------|-------------------|--|
| E26 | KE26-QC150 | 26 pin 5A Module with Industrial User Connector, without Cable |
|------------|-------------------|--|

ACCESSORIES:

| | |
|-----------------|--|
| ELCT-045 | Straight female plug (w/o cable), solder type, cable clamp |
|-----------------|--|

TOOL HALF MODULES:

How to Order Modules:



MODULE FOR TP-60

PREMOUNTED SEPARATE

| | | |
|------------|------------------|--|
| E26 | KE26-TP60 | 26 pin 5A Module with Industrial User Connector, without Cable |
|------------|------------------|--|

MODULE FOR TP-150

PREMOUNTED SEPARATE

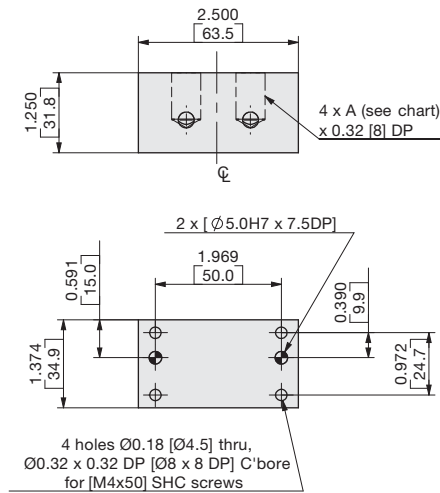
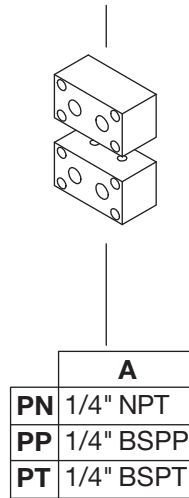
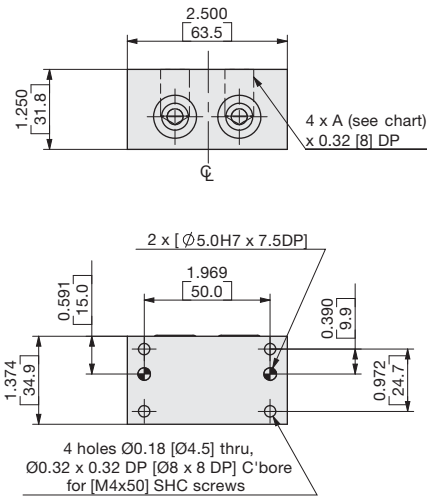
| | | |
|------------|-------------------|--|
| E26 | KE26-TP150 | 26 pin 5A Module with Industrial User Connector, without Cable |
|------------|-------------------|--|

ACCESSORIES:

| | |
|-----------------|--|
| ELCT-046 | Straight male plug (w/o cable), solder type, cable clamp |
|-----------------|--|

Module kits above include: Flat for module mounting, straight plug (without cable), locating pins and hardware.

2 X 1/4" Air ports Module, Face Seal (PN14, PP14, PT14)
For QC/TP-60 & QC/TP-150

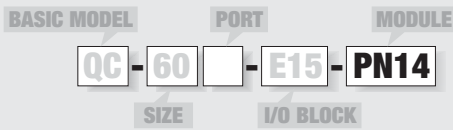


Flat for module mounting not shown: See QC or TP drawings.

Maximum Working Pressure: 10 bar

ROBOT HALF MODULES:

How to Order Modules:



MODULES FOR QC-60

| PREMOUNTED | SEPARATE | |
|-------------|-------------------|---------------------------------------|
| PN14 | KPN14-QC60 | 2 x 1/4" NPT Pneumatic Ports, 10 bar |
| PP14 | KPP14-QC60 | 2 x 1/4" BSPP Pneumatic Ports, 10 bar |
| PT14 | KPT14-QC60 | 2 x 1/4" BSPT Pneumatic Ports, 10 bar |

MODULES FOR QC-150

| PREMOUNTED | SEPARATE | |
|-------------|--------------------|---------------------------------------|
| PN14 | KPN14-QC150 | 2 x 1/4" NPT Pneumatic Ports, 10 bar |
| PP14 | KPP14-QC150 | 2 x 1/4" BSPP Pneumatic Ports, 10 bar |
| PT14 | KPT14-QC150 | 2 x 1/4" BSPT Pneumatic Ports, 10 bar |

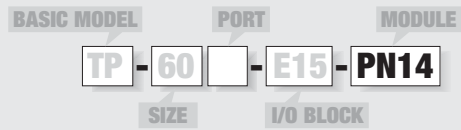
ACCESSORIES:

| | |
|-----------------|-----------------|
| SLKT-395 | Seal Repair Kit |
|-----------------|-----------------|

Module kits above include: Flat for module mounting, seals, locating pins and hardware.

TOOL HALF MODULES:

How to Order Modules:



MODULES FOR TP-60

| PREMOUNTED | SEPARATE | |
|-------------|-------------------|---------------------------------------|
| PN14 | KPN14-TP60 | 2 x 1/4" NPT Pneumatic Ports, 10 bar |
| PP14 | KPP14-TP60 | 2 x 1/4" BSPP Pneumatic Ports, 10 bar |
| PT14 | KPT14-TP60 | 2 x 1/4" BSPT Pneumatic Ports, 10 bar |

MODULES FOR TP-150

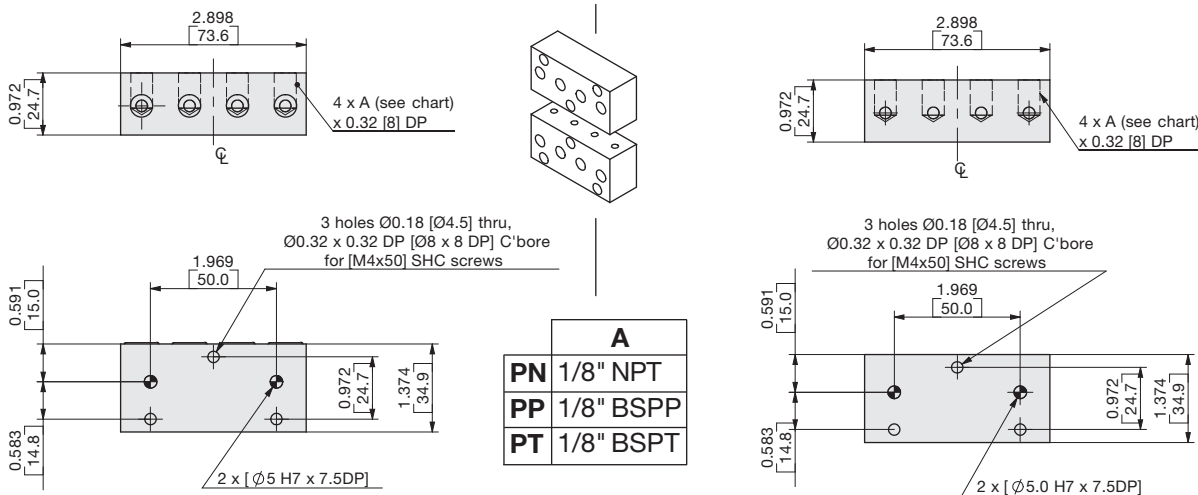
| PREMOUNTED | SEPARATE | |
|-------------|--------------------|---------------------------------------|
| PN14 | KPN14-TP150 | 2 x 1/4" NPT Pneumatic Ports, 10 bar |
| PP14 | KPP14-TP150 | 2 x 1/4" BSPP Pneumatic Ports, 10 bar |
| PT14 | KPT14-TP150 | 2 x 1/4" BSPT Pneumatic Ports, 10 bar |

Module kits above include: Flat for module mounting, straight plug (without cable), locating pins and hardware.

OPTIONAL PNEUMATIC MODULE

4 X 1/8" Air ports Module, Face Seal (PN18, PP18, PT18)

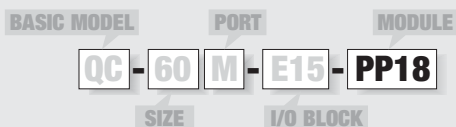
For QC/TP-60 & QC/TP-150



Maximum Working Pressure: 10 bar

ROBOT HALF MODULES:

How to Order Modules:



MODULES FOR QC-60

PREMOUNTED SEPARATE

| PN18 | KPN18-QC60 | 4 x 1/8" NPT Pneumatic Ports, 10 bar |
|------|------------|---------------------------------------|
| PP18 | KPP18-QC60 | 4 x 1/8" BSPP Pneumatic Ports, 10 bar |
| PT18 | KPT18-QC60 | 4 x 1/8" BSPT Pneumatic Ports, 10 bar |

MODULES FOR QC-150

PREMOUNTED SEPARATE

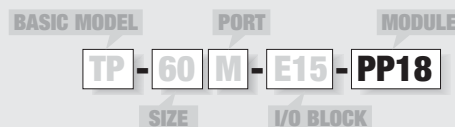
| PN18 | KPN18-QC150 | 4 x 1/8" NPT Pneumatic Ports, 10 bar |
|------|-------------|---------------------------------------|
| PP18 | KPP18-QC150 | 4 x 1/8" BSPP Pneumatic Ports, 10 bar |
| PT18 | KPT18-QC150 | 4 x 1/8" BSPT Pneumatic Ports, 10 bar |

ACCESSORIES:

SLKT-391 Seal Repair Kit

TOOL HALF MODULES:

How to Order Modules:



MODULES FOR TP-60

PREMOUNTED SEPARATE

| PN18 | KPN18-TP60 | 4 x 1/8" NPT Pneumatic Ports, 10 bar |
|------|------------|---------------------------------------|
| PP18 | KPP18-TP60 | 4 x 1/8" BSPP Pneumatic Ports, 10 bar |
| PT18 | KPT18-TP60 | 4 x 1/8" BSPT Pneumatic Ports, 10 bar |

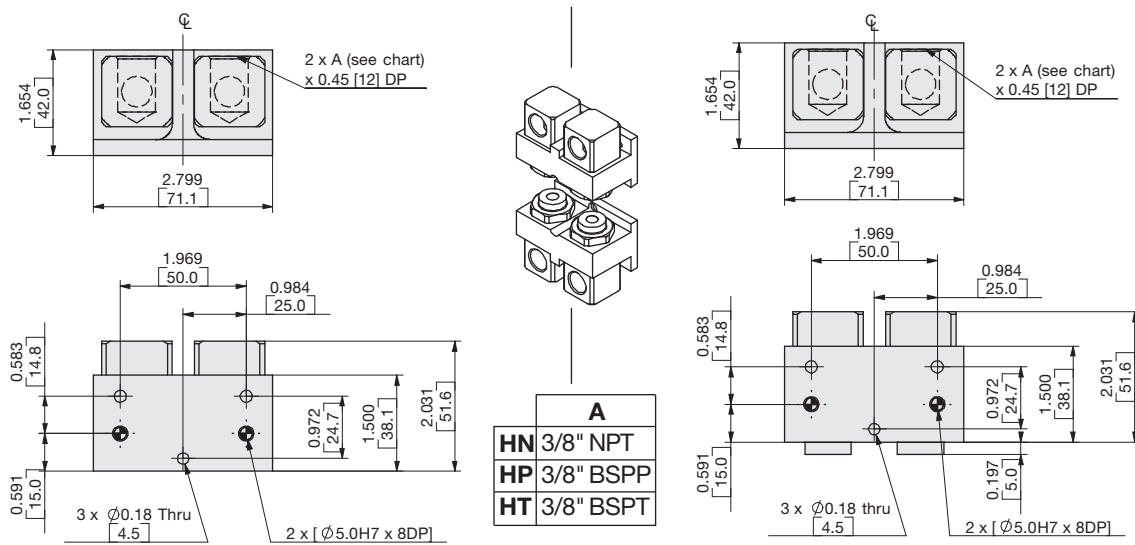
MODULES FOR TP-150

PREMOUNTED SEPARATE

| PN18 | KPN18-TP150 | 4 x 1/8" NPT Pneumatic Ports, 10 bar |
|------|-------------|---------------------------------------|
| PP18 | KPP18-TP150 | 4 x 1/8" BSPP Pneumatic Ports, 10 bar |
| PT18 | KPT18-TP150 | 4 x 1/8" BSPT Pneumatic Ports, 10 bar |

Module kits above include: Flat for module mounting, seals, locating pins and hardware.

2 x 3/8" Fluid Ports Module, Non Spilling, Double Shut-Off (HP38, HN38, HT38) For QC/TP-60 & QC/TP-150

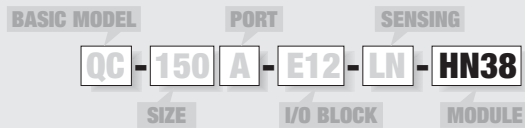


Flat for module mounting not shown: See QC or TP drawings.

Maximum Working Pressure: 100 bar

ROBOT HALF MODULES:

How to Order Modules:



MODULE FOR QC-60

PREMOUNTED **SEPARATE**

HN38 **KHN38-QC60** 2 x 3/8" NPT Fluid Ports Module, 100 bar

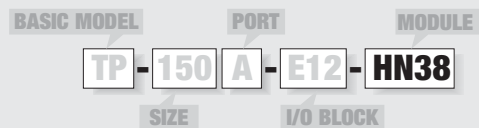
MODULE FOR QC-150

PREMOUNTED **SEPARATE**

HN38 **KHN38-QC150** 2 x 3/8" NPT Fluid Ports Module, 100 bar

TOOL HALF MODULES:

How to Order Modules:



MODULE FOR TP-60

PREMOUNTED **SEPARATE**

HN38 **KHN38-TP60** 2 x 3/8" NPT Fluid Ports Module, 100 bar

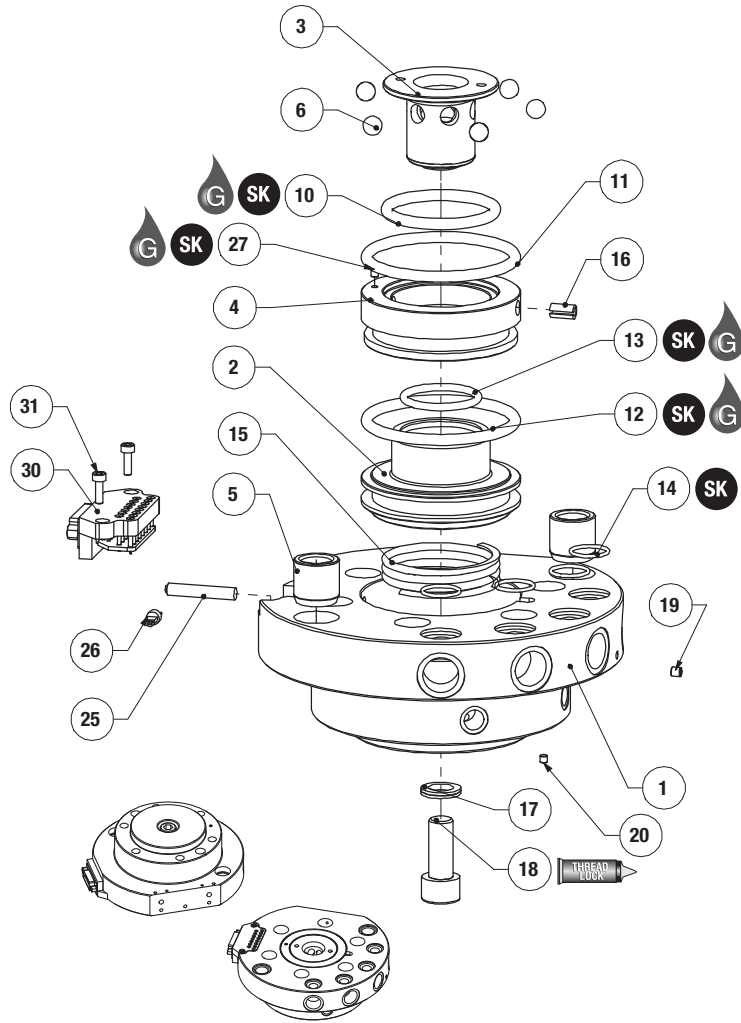
MODULE FOR TP-150

PREMOUNTED **SEPARATE**

HN38 **KHN38-TP150** 2 x 3/8" NPT Fluid Ports Module, 100 bar

Module kits above include: Flat for module mounting, couplings, locating pins and hardware.

Robot Half



| Item | Qty | Name |
|------|-----|------|
|------|-----|------|

Robot Side

| | | |
|----|--------|--|
| 1 | 1 | Body |
| 2 | 1 | Piston |
| 3 | 1 | Ball retainer |
| 4 | 1 | Ring |
| 5 | 2 | Bushing |
| 6 | 4 to 6 | Ball |
| 10 | 1 | Ring, O-Ring |
| 11 | 1 | Ring, O-Ring |
| 12 | 1 | Piston, O-Ring |
| 13 | 1 | Piston, O-ring |
| 14 | 4 | Body, O-Ring |
| 15 | 1 | Spring |
| 16 | 1 | Ring, Pin (QC-150 only) |
| 17 | 1 | Retainer, O-Ring |
| 18 | 1 | Retainer, Washer |
| 19 | 1 | Body, SHC screw |
| 20 | 1 | Body, SHC screw |
| 25 | 1 | Sensor, (QC-150 only - optional) |
| 26 | 1 | Sensor Connector, (QC-150 only - optional) |
| 27 | 1 | Sensor, SS screw (QC-150 only) |
| 30 | 1 | I/O Module |
| 31 | 2 | Module, SHC Screw |

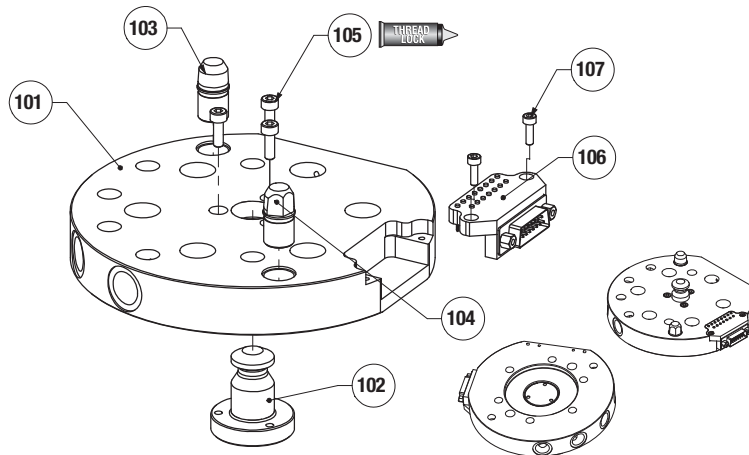
Tool Side

| | | |
|-----|---|-------------------|
| 101 | 1 | Body |
| 102 | 1 | Locking Pin |
| 103 | 1 | Centering Pin |
| 104 | 1 | Diamond Pin |
| 105 | 3 | Pin, Screw |
| 106 | 1 | I/O Module |
| 107 | 2 | Module, SHC screw |

NOTE: Contact the Robohand Sales Department for a complete spare parts list with order numbers and prices.

SK Seal Repair Kit Order #'s See Product Data Sheets

Tool Half



Seal Kit Items



Thread Locker



Krytox™ Lubricant



Lightweight Machine Oil



Teflon® Based Grease

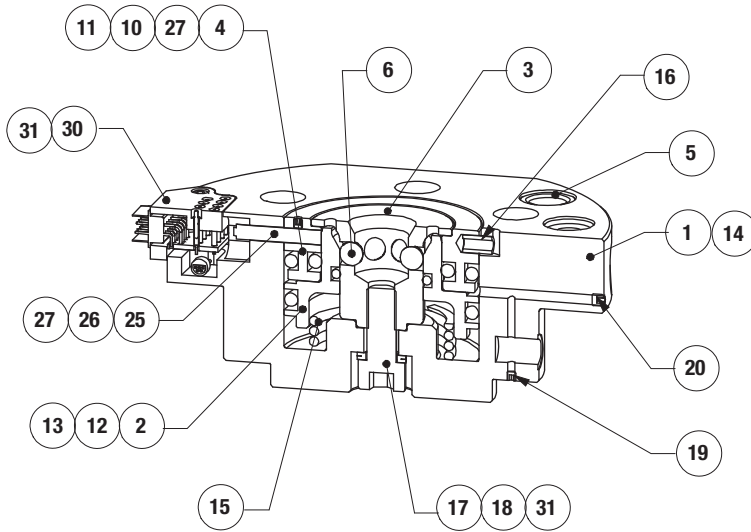


Super Bonder

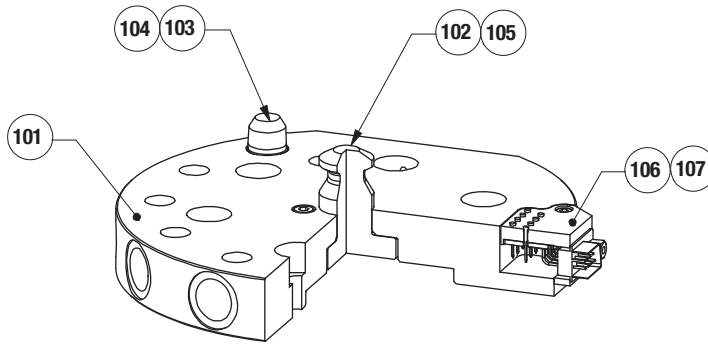


Third Angle Projection

Robot Half



Tool Half



| Item | Qty | Name |
|------|-----|------|
|------|-----|------|

Robot Side

| | | |
|----|--------|--|
| 1 | 1 | Body |
| 2 | 1 | Piston |
| 3 | 1 | Ball retainer |
| 4 | 1 | Ring |
| 5 | 2 | Bushing |
| 6 | 4 to 6 | Ball |
| 10 | 1 | Ring, O-Ring |
| 11 | 1 | Ring, O-Ring |
| 12 | 1 | Piston, O-ring |
| 13 | 1 | Piston, O-ring |
| 14 | 4 | Body, O-Ring |
| 15 | 1 | Spring |
| 16 | 1 | Ring, Pin (QC-150 only) |
| 17 | 1 | Retainer, O-Ring |
| 18 | 1 | Retainer, Washer |
| 19 | 1 | Body, SHC screw |
| 20 | 1 | Body, SHC screw |
| 25 | 1 | Sensor, (QC-150 only - optional) |
| 26 | 1 | Sensor Connector, (QC-150 only - optional) |
| 27 | 1 | Sensor, SS screw (QC-150 only) |
| 30 | 1 | I/O Module |
| 31 | 2 | Module, SHC Screw |

Tool Side

| | | |
|-----|---|-------------------|
| 101 | 1 | Body |
| 102 | 1 | Locking Pin |
| 103 | 1 | Centering Pin |
| 104 | 1 | Diamond Pin |
| 105 | 3 | Pin, Screw |
| 106 | 1 | I/O Module |
| 107 | 2 | Module, SHC screw |

NOTE: Contact the Robohand Sales Department for a complete spare parts list with order numbers and prices.

Assembly Procedure - Robot Side

- 1) Install the air port plugs (#19) and (#20) with thread-locker into the body (#1)
- 2) Lubricate and install seals (#12) and (#13) into the piston (#2)
- 3) Insert the springs (#15) into the body
- 4) Insert the piston sub-assembly into the body
- 5) Lubricate and install seals (#10) and (#11) into the ring (#4)
- 6) Insert the pin (#16) into the ring (#4)
- 7) Insert the ring sub-assembly into the body
- 8) Insert the balls (#6) into the ball retainer (#3)
- 9) Insert the ball and retainer sub-assembly into the body
- 10) Fasten the ball retainer with washer (#17) and screws (#18) with thread-locker
- 11) Press in the bushings (#5) into the body
- 12) Mount the O-Ring (#14) into the body
- 13) For QC150 with latch sensor only, fully insert the sensor (#25) into the body and slightly pull it back (0.5 to 1 mm). Fasten the sensor (#25) with screw (#27). Plug in male connector (#25) with the female connector of the I/O block (#30)
- 14) Mount the I/O block (#30) into the body and fasten with screw (#31)

Assembly Procedure - Tool Side

- 1) Insert the locking pin (#102) into the body #101 and fasten with screws (#105) with thread-locker
- 2) Press in the diamond pin (#104) into the body
- 3) Press in the pin (#103) into the body
- 4) Mount the I/O block (#106) into the body and fasten with screw (#107)

QC Series Cross Reference



| New Product # | Old Product # | Description |
|----------------------------|----------------|--|
| Robot Half Size 30 | | |
| QC-30-E15 | QC2336-0-0-0 | Robot Half, Imperial, 15 Pin I/O Module |
| QC-30-D15 | QC1862-0-0-0 | Robot Half, Imperial, Double 15 Pin I/O Module |
| QC-30M-E15 | QC1956-0-0-0 | Robot Half, Metric, 15 Pin I/O Module |
| QC-30M-E12 | QC7499-0-0-0 | Robot Half, Metric, 12 Pin I/O Module |
| Tool Half Size 30 | | |
| TP-30-E15 | TP2337-0-0 | Tool Half, Imperial, 15 Pin I/O Module |
| TP-30-D15 | TP1506-0-0 | Tool Half, Imperial, Double 15 Pin I/O Module |
| TP-30M-E15 | TP1597-0-0 | Tool Half, Metric, 15 Pin I/O Module |
| TP-30M-E12 | TP7500-0-0 | Tool Half, Metric, 12 Pin I/O Module |
| Accessories Size 30 | | |
| E15-QC30 | 502678 | 15 Pin I/O Block with Micro D-Sub Connector |
| E12-QC30 | 507494 | 12 Pin I/O Block with Turck M12 Connector |
| E15-TP30 | 502679 | 15 Pin I/O Block with Micro D-Sub Connector |
| E12-TP30 | 507495 | 12 Pin I/O Block with Turck M12 Connector |
| CABL-024 | 903319 | Straight Male Cordset 1.2M for E15 |
| SLKT-387 | KQC30-OR | Seal Repair Kit, QC30 |
| SLKT-388 | KQC30-HW | Face Sealing Repair Kit, QC30 |
| Robot Half Size 60 | | |
| QC-60-E15 | QC6675-0-0-0 | Robot Half, NPT, 15 Pin I/O Module |
| QC-60-G15 | QC2166-0-0-0 | Robot Half, NPT, 15 Pin Non-Recessed I/O Module |
| QC-60M-E15 | QC6704-0-0-0 | Robot Half, Metric, 15 Pin I/O Module |
| QC-60M-E12 | QC7592-0-0-0 | Robot Half, Metric, 12 Pin I/O Module |
| QC-60M-G15 | QC4588-0-0-0 | Robot Half, Metric, 15 Pin Non-Recessed I/O Module |
| QC-60A-E15 | QC6708-0-0-0 | Robot Half, BSPT, 15 Pin I/O Module |
| QC-60A-G15 | QC1980-0-0-0 | Robot Half, BSPT, 15 Pin Non-Recessed I/O Module |
| QC-60-E15-10P | QC6923-0-0-0 | Robot Half, NPT, 15 Pin I/O Module, 10 Ports |
| QC-60M-E15-10P | QC7079-0-0-0 | Robot Half, Metric, 15 Pin I/O Module, 10 Ports |
| QC-60A-E15-10P | QC7078-0-0-0 | Robot Half, BSPT, 15 Pin I/O Module, 10 Ports |
| Tool Half Size 60 | | |
| TP-60-E15 | TP6676-0-0-0 | Tool Half, NPT, 15 Pin I/O Module |
| TP-60-G15 | TP2093-0-0-0 | Tool Half, NPT, 15 Pin Non-Recessed I/O Module |
| TP-60M-E15 | TP6705-0-0-0 | Tool Half, Metric, 15 Pin I/O Module |
| TP-60M-E12 | TP7593-0-0-0 | Tool Half, Metric, 12 Pin I/O Module |
| TP-60M-G15 | TP4591-0-0-0 | Tool Half, Metric, 15 Pin Non-Recessed I/O Module |
| TP-60A-E15 | TP6709-0-0-0 | Tool Half, BSPT, 15 Pin I/O Module |
| TP-60A-G15 | TP1981-0-0-0 | Tool Half, BSPT, 15 Pin Non-Recessed I/O Module |
| TP-60-E15-10P | TP6924-0-0-0 | Tool Half, NPT, 15 Pin I/O Module, 10 Ports |
| TP-60M-E15-10P | TP7081-0-0-0 | Tool Half, Metric, 15 Pin I/O Module, 10 Ports |
| TP-60A-E15-10P | TP7080-0-0-0 | Tool Half, BSPT, 15 Pin I/O Module, 10 Ports |
| Accessories Size 60 | | |
| SLKT-389 | KQC60-OR | Seal Repair Kit, QC60 |
| Robot Half Size 150 | | |
| QC-150-E15 | QC6677-0-0-0 | Robot Half, NPT, 15 Pin I/O Module |
| QC-150-G15 | QC2292-0-0-0 | Robot Half, NPT, 15 Pin Non-Recessed I/O Module |
| QC-150-E15-LP | QC6677-052-0-0 | Robot Half, NPT, 15 Pin I/O Module, PNP Latch sensor |
| QC-150-G15-LP | QC2292-052-0-0 | Robot Half, NPT, 15 Pin Non-Recessed I/O Module, PNP Latch sensor |
| QC-150-E15-LN | QC6677-050-0-0 | Robot Half, NPT, 15 Pin I/O Module, NPN Latch sensor |
| QC-150-G15-LN | QC2292-050-0-0 | Robot Half, NPT, 15 Pin Non-Recessed I/O Module, NPN Latch sensor |
| QC-150M-E15 | QC6706-0-0-0 | Robot Half, Metric, 15 Pin I/O Module |
| QC-150M-G15 | QC4593-0-0-0 | Robot Half, Metric, 15 Pin Non-Recessed I/O Module |
| QC-150M-E15-LP | QC6706-052-0-0 | Robot Half, Metric, 15 Pin I/O Module, PNP Latch sensor |
| QC-150M-G15-LP | QC4593-052-0-0 | Robot Half, Metric, 15 Pin Non-Recessed I/O Module, PNP Latch sensor |
| QC-150M-E15-LN | QC6706-050-0-0 | Robot Half, Metric, 15 Pin I/O Module, NPN Latch sensor |
| QC-150M-G15-LN | QC4593-050-0-0 | Robot Half, Metric, 15 Pin Non-Recessed I/O Module, NPN Latch sensor |
| QC-150A-E15 | QC6710-0-0-0 | Robot Half, BSPT, 15 Pin I/O Module |
| QC-150A-G15 | QC3066-0-0-0 | Robot Half, BSPT, 15 Pin Non-Recessed I/O Module |
| QC-150A-E15-LP | QC6710-052-0-0 | Robot Half, BSPT, 15 Pin I/O Module, PNP Latch sensor |
| QC-150A-G15-LP | QC3066-052-0-0 | Robot Half, BSPT, 15 Pin Non-Recessed I/O Module, PNP Latch sensor |
| QC-150A-E15-LN | QC6710-050-0-0 | Robot Half, BSPT, 15 Pin I/O Module, NPN Latch sensor |
| QC-150A-G15-LN | QC3066-050-0-0 | Robot Half, BSPT, 15 Pin Non-Recessed I/O Module, NPN Latch sensor |

| New Product # | Old Product # | Description |
|--------------------------------|---------------|---|
| Tool Half Size 150 | | |
| TP-150-E15 | TP6678-0-0-0 | Tool Half, NPT, 15 Pin I/O Module |
| TP-150-G15 | TP2293-0-0-0 | Tool Half, NPT, 15 Pin Non-Recessed I/O Module |
| TP-150M-E15 | TP6707-0-0-0 | Tool Half, Metric, 15 Pin I/O Module |
| TP-150M-G15 | TP4595-0-0-0 | Tool Half, Metric, 15 Pin Non-Recessed I/O Module |
| TP-150A-E15 | TP6711-0-0-0 | Tool Half, BSPT, 15 Pin I/O Module |
| TP-150A-G15 | TP2259-0-0-0 | Tool Half, BSPT, 15 Pin Non-Recessed I/O Module |
| Modules Size 60 and 150 | | |
| KG15-QC60 | 502675 | 15 Pin I/O Block (Non-Recessed) with D-Sub Connector - QC side |
| KE15-QC60 | 506671 | 15 Pin I/O Block with D-Sub Connector - QC side |
| KG15-TP60 | 502676 | 15 Pin I/O Block (Non-Recessed) with D-Sub Connector - TP side |
| KE15-TP60 | 506673 | 15 Pin I/O Block with D-Sub Connector - TP side |
| KE26-QC60 | QE26 | 26 pin 5A Module with Industrial Connector - QC side |
| KE26-TP60 | TE26 | 26 pin 5A Module with Industrial Connector - TP side |
| KE19-QC60 | QE19 | 19 pin 5A Module with Industrial Connector - QC side |
| KE19-TP60 | TE19 | 19 pin 5A Module with Industrial Connector - TP side |
| KE10-QC60 | QE10 | 10 pin 13A Module with Industrial Connector - QC side |
| KE10-TP60 | TE10 | 10 pin 13A Module with Industrial Connector - TP side |
| KG15-QC150 | 502675 | 15 Pin I/O Block (Non-Recessed) with D-Sub Connector - QC side |
| KE15-QC150 | 506671 | 15 Pin I/O Block with D-Sub Connector - QC side |
| KG15-TP150 | 502676 | 15 Pin I/O Block (Non-Recessed) with D-Sub Connector - TP side |
| KE15-TP150 | 506673 | 15 Pin I/O Block with D-Sub Connector - TP side |
| KE26-QC150 | QE26 | 26 pin 5A Module with Industrial Connector - QC side |
| KE26-TP150 | TE26 | 26 pin 5A Module with Industrial Connector - TP side |
| KE19-QC150 | QE19 | 19 pin 5A Module with Industrial Connector - QC side |
| KE19-TP150 | TE19 | 19 pin 5A Module with Industrial Connector - TP side |
| KE10-QC150 | QE10 | 10 pin 13A Module with Industrial Connector - QC side |
| KE10-TP150 | TE10 | 10 pin 13A Module with Industrial Connector - TP side |
| KPN18-QC60 | QNPT18 | 4 x 1/8 NPT Pneumatic Ports Module - QC side |
| KPP18-QC60 | QBSPP18 | 4 x 1/8 BSPP Pneumatic Ports Module - QC side |
| KPT18-QC60 | QBSPT18 | 4 x 1/8 BSPT Pneumatic Ports Module - QC side |
| KPN18-TP60 | TNPT18 | 4 x 1/8 NPT Pneumatic Ports Module - TP side |
| KPP18-TP60 | TBSPP18 | 4 x 1/8 BSPP Pneumatic Ports Module - TP side |
| KPT18-TP60 | TBSPT18 | 4 x 1/8 BSPT Pneumatic Ports Module - TP side |
| KPN14-QC60 | QNPT14 | 2 x 1/4 NPT Pneumatic Ports Module - QC side |
| KPP14-QC60 | QBSPP14 | 2 x 1/4 BSPP Pneumatic Ports Module - QC side |
| KPT14-QC60 | QBSPT14 | 2 x 1/4 BSPT Pneumatic Ports Module - QC side |
| KPN14-TP60 | TNPT14 | 2 x 1/4 NPT Pneumatic Ports Module - TP side |
| KPP14-TP60 | TBSPP14 | 2 x 1/4 BSPP Pneumatic Ports Module - TP side |
| KPT14-TP60 | TBSPT14 | 2 x 1/4 BSPT Pneumatic Ports Module - TP side |
| KPN18-QC150 | QNPT18 | 4 x 1/8 NPT Pneumatic Ports Module - QC side |
| KPP18-QC150 | QBSPP18 | 4 x 1/8 BSPP Pneumatic Ports Module - QC side |
| KPT18-QC150 | QBSPT18 | 4 x 1/8 BSPT Pneumatic Ports Module - QC side |
| KPN18-TP150 | TNPT18 | 4 x 1/8 NPT Pneumatic Ports Module - TP side |
| KPP18-TP150 | TBSPP18 | 4 x 1/8 BSPP Pneumatic Ports Module - TP side |
| KPT18-TP150 | TBSPT18 | 4 x 1/8 BSPT Pneumatic Ports Module - TP side |
| KPN14-QC150 | QNPT14 | 2 x 1/4 NPT Pneumatic Ports Module - QC side |
| KPP14-QC150 | QBSPP14 | 2 x 1/4 BSPP Pneumatic Ports Module - QC side |
| KPT14-QC150 | QBSPT14 | 2 x 1/4 BSPT Pneumatic Ports Module - QC side |
| KPN14-TP150 | TNPT14 | 2 x 1/4 NPT Pneumatic Ports Module - TP side |
| KPP14-TP150 | TBSPP14 | 2 x 1/4 BSPP Pneumatic Ports Module - TP side |
| KPT14-TP150 | TBSPT14 | 2 x 1/4 BSPT Pneumatic Ports Module - TP side |
| KHN38-QC60 | QQD38 | 2 x 3/8 NPT Fluid Ports Module - QC side |
| KHN38-TP60 | TQD38 | 2 x 3/8 NPT Fluid Ports Module - TP side |
| KHN38-QC150 | QQD38 | 2 x 3/8 NPT Fluid Ports Module - QC side |
| KHN38-TP150 | TQD38 | 2 x 3/8 NPT Fluid Ports Module - TP side |
| ELCT-047 | 502363 | Straight Female D-Sub User Plug (w/o cable) Solder Type for E15/G15 (QC-60/150 & TP-60/150) |
| ELCT-041 | 904831 | Straight Female Plug (w/o cable) for E10-QC60/150 |
| ELCT-042 | 904834 | Straight Male Plug (w/o cable) for E10-TP60/150 |
| ELCT-043 | 902484 | Straight Female Plug (w/o cable) for E19-QC60/150 |
| ELCT-044 | 902486 | Straight Male Plug (w/o cable) for E19-TP60/150 |
| ELCT-045 | 904837 | Straight Female Plug (w/o cable) for E26-QC60/150 |
| ELCT-046 | 904833 | Straight Male Plug (w/o cable) for E26-TP60/150 |