**Through Hole Parallel Gripper PPC Series**

**Mounting Information:**
- **Grippers can be mounted and operated in any direction**
- Gripper is located using pilot boss and a dowel pin and assembled with 3 through body screws.
- The gripper is protected from falling debris when it is mounted and operated upside down.
- Gripper can be operated utilizing top manifold air ports.
- Fingers are located on jaws with 2 dowel pins and assembled with 1 screw.

**Technical Specifications:**

<table>
<thead>
<tr>
<th>Pneumatic Specifications</th>
<th>Imperial</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Operating Range without springs</td>
<td>30-100 psi</td>
<td>2-7 bar</td>
</tr>
<tr>
<td>Pressure Operating Range with springs</td>
<td>45-100 psi</td>
<td>3-7 bar</td>
</tr>
<tr>
<td>Cylinder Type</td>
<td>Double Acting or Double Acting Spring Assist or Single Acting Spring Return Internally Lubricated Buna-N</td>
<td></td>
</tr>
<tr>
<td>Dynamic Seals</td>
<td>4-way, 2-position</td>
<td></td>
</tr>
<tr>
<td>Valve Required to Operate</td>
<td>3-way, 2-position</td>
<td></td>
</tr>
<tr>
<td>Double Acting</td>
<td>Single Acting</td>
<td></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Air Quality Requirements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Filtration</td>
<td>40 Micron or Better</td>
</tr>
<tr>
<td>Air Lubrication</td>
<td>Not Necessary*</td>
</tr>
<tr>
<td>Air Humidity</td>
<td>Low Moisture Content (dry)</td>
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<tr>
<th>Temperature Operating Range</th>
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<tr>
<td>Buna-N Seals (standard)</td>
<td>-30°~180° F, -35°~80° C</td>
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<tr>
<td>Viton® Seals (optional)</td>
<td>-20°~300° F, -30°~150° C</td>
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<table>
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<tr>
<th>Maintenance Specifications*</th>
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<tbody>
<tr>
<td>Expected Life</td>
<td>5 million cycles</td>
</tr>
<tr>
<td>Normal Application</td>
<td>Yes</td>
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<tr>
<td>w/ Preventative Maintenance</td>
<td>10+ million cycles*</td>
</tr>
<tr>
<td>Field Repairable</td>
<td>Yes</td>
</tr>
<tr>
<td>Seal Repair Kits Available</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Addition of lubrication will greatly increase service life
*See Maintenance Section

**Machining applications:**
- The 3 concentric jaws and the excellent repeatability make it easier to accurately load and unload round parts.

**Compact, robust and powerful gripper:**
- This gripper is designed for use in confined spaces, combining long strokes with a high grip force. Optional safety springs retain the components, should the air supply fail or to increase grip force.

**Harsh environments:**
- Shielded design repels chips and other particulate from internal drive mechanism.

**Multipurpose gripper:**
- A wide range of options and accessories (extended stroke, safety springs for internal or external gripping, inductive sensors, Viton® seals) allow these grippers to be used in a number of applications.

---

For more information call us at: 1-800-ROBOHAND or 203-261-5558  Fax: 203-452-7418  Visit us on the Internet at: www.destaco.com
**Product Features**

- **Viton® Seals**
  Optional for high temperature applications

- **Quality Components**
  Made from Aluminum alloy, hard coat anodized with Teflon® Impregnation. The gripper’s main components are made of heat treated steel.

- **Standard Stroke and Extended Stroke**
  Each model of gripper is available in 2 stroke lengths.

- **Shield and Covers**
  Gripper body is shielded to repel chips and other particulate from internal drive mechanism.

- **Multiple Ports**
  Side or top manifold ports.

- **Through Hole Design**
  The standard hole diameter can be customized with optional sleeves.

- **Inductive Sensing**
  Inductive sensor kits available. Capable of sensing 4 positions.

- **Safety Springs**
  Optional Springs for internal gripping (-RI) or external gripping (-RE) in single acting mode or spring assist.

**Operating Principle**

- **Jaw Shielded**
  Case

- **Jaw Slot**

- **Piston with Cam Driver**

- **Cover**

- **Rotation Axis**

- **Groove**

- **Gripper Open**
  Pressure → Exhaust

- **Gripper Closed**
  Pressure → Exhaust

- **A double acting piston with a through hole drives the three cams.**
- **The piston’s motion makes the cam lever rotate and moves the jaws.**
- **The three cams synchronize the jaw motion.**
- **Optional springs can be used to increase the grip force or to hold part in the event of loss of air.**
- **This gripper is suitable for internal or external gripping.**

---

**Style - PPC-12 & PPC-12-C**

- **Style:** PPC-12
  - Total Stroke: 0.394 in. 10 mm
  - Grip Force: 331 lb 1474 N
  - Weight: 2.2 lb 1.00 Kg

- **Style:** PPC-12-C
  - Total Stroke: 0.630 in. 16 mm
  - Grip Force: 201 lb 896 N
  - Weight: 2.4 lb 1.10 Kg

See Page 1.228-1.229

---

**Style - PPC-25 & PPC-25-C**

- **Style:** PPC-25
  - Total Stroke: 0.512 in. 13 mm
  - Grip Force: 589 lb 2620 N
  - Weight: 4.9 lb 2.20 Kg

- **Style:** PPC-25-C
  - Total Stroke: 0.787 in. 20 mm
  - Grip Force: 369 lb 1642 N
  - Weight: 5.1 lb 2.30 Kg

See Page 1.230-1.231

---

**Style - PPC-34 & PPC-34-C**

- **Style:** PPC-34
  - Total Stroke: 0.787 in. 20 mm
  - Grip Force: 974 lb 4332 N
  - Weight: 11.2 lb 5.10 Kg

- **Style:** PPC-34-C
  - Total Stroke: 1.181 in. 30 mm
  - Grip Force: 638 lb 2838 N
  - Weight: 11.7 lb 5.3 Kg

See Page 1.232-1.233

---

For more information call us at: 1-800-ROBOHAND or 203-261-5558  Fax: 203-452-7418  Visit us on the Internet at: www.destaco.com
PARALLEL GRIPPERS PPC-12
THROUGH HOLE SERIES

Specifications

- **PPC-12**
  - Total Rated Grip Force @ 100 psi, 7 bar: 331 lbs. *1474 N*
  - Total Stroke: 0.394 in. (10 mm)
  - Weight: 2.2 lbs. (1.0 Kg)
  - Pressure Range without Springs: 30-100 psi (2-7 bar)
  - Pressure Range with Springs: 45-100 psi (3-7 bar)
  - Cylinder Bore Ø: 2.48 in. (63 mm)
  - Displacement: 1.40 in² (23 cm²)
  - Temperature Range
    - Standard Seals: -30° to 180° F (-35° to 80° C)
    - Viton® Seals: -20° to 300° F (-30° to 150° C)
  - Actuation: 0.03 sec (0.03 sec)
  - Repeatability: ±0.0008 in. ±0.02 mm

*with Option RE or RI

**UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW**

All Dowel Holes are SF (Slip Fit).
Locational Tolerance ±0.0005" or ±0.013mm

---

**Loading Information**

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

**PPC-12**

<table>
<thead>
<tr>
<th>Safety Springs</th>
<th>E</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC MODEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VITON® SEALS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SAFETY SPRINGS**

- **RE** External Clamping
- **RI** Internal Clamping

**SAFETY SPRINGS** (See below)

**FINAL MODEL**

**SENSOR ACCESSORIES**

- Inductive Sensor Holder Kit (1 Holder, 1 Flag, 2 Spacers)
  - SD-REP-63 (1 to 2)
- Inductive NPN Sensor M8 with Quick Disconnect
  - OSN-011 (1 to 4)
- Inductive PNP Sensor M8 with Quick Disconnect
  - CSP-011 (1 to 4)
- Quick Disconnect 2 Meter Cable Length
  - CABL-010 (1 to 6)
- Quick Disconnect 5 Meter Cable Length
  - CABL-013 (1 to 6)

**PNEUMATIC ACCESSORIES**

- Standard Seal Repair Kit
  - SLKT-207 (1)
- Viton® Seal Repair Kit
  - SLKT-207V (1)

**Detailed sensor information at the end of this section.**

---

**Loading Information**

- **Grip Force per Finger (springs compressed at mid-stroke)**
- **WARNING! DO NOT EXCEED MAXIMUM EFFECTIVE FINGER LENGTHS**

**EFFECTIVE FINGER LENGTH - L**

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<thead>
<tr>
<th>N (lbs.)</th>
<th>0</th>
<th>50</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
<th>350</th>
<th>400</th>
<th>450</th>
<th>500</th>
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<tr>
<td>F/3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Finger Force - F</th>
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</thead>
<tbody>
<tr>
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</tr>
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<tr>
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<td>1.57</td>
</tr>
<tr>
<td>1.97</td>
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<tr>
<td>2.36</td>
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</table>

<table>
<thead>
<tr>
<th>Load Capabilities</th>
<th>Static</th>
<th>Dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Tensile T</td>
<td>101 lbs. (450 N)</td>
<td>49 lbs. (220 N)</td>
</tr>
<tr>
<td>Maximum Compressive C</td>
<td>259 lbs. (1150 N)</td>
<td>49 lbs. (220 N)</td>
</tr>
<tr>
<td>Maximum Moment Mx</td>
<td>177 lbs. (20 Nm)</td>
<td>53 lbs. (6 Nm)</td>
</tr>
<tr>
<td>Maximum Moment My</td>
<td>177 lbs. (20 Nm)</td>
<td>53 lbs. (6 Nm)</td>
</tr>
<tr>
<td>Maximum Moment Mz</td>
<td>443 lbs. (50 Nm)</td>
<td>89 lbs. (10 Nm)</td>
</tr>
</tbody>
</table>

*Capacities are per set of jaws and are not simultaneous.
PARALLEL GRIPPERS PPC-12-C THROUGH HOLE SERIES

Specifications

**PPC-12-C**
- Total Rated Grip Force @ 100 psi, 7 bar: 201 lbs.* 896 N
- Total Stroke: 0.630 in. 16 mm
- Weight: 2.4 lbs. 1.1 Kg
- Pressure Range without Springs: 30-100 psi 2-7 bar
- Pressure Range with Springs: 45-100 psi 3-7 bar
- Cylinder Bore Ø: 2.48 in. 63 mm
- Displacement: 1.40 in² 23 cm²
- Temperature Range
  - Standard Seals: -30°~180° F -35°~80° C
  - Viton® Seals: -20°~300° F -30°~150° C
- Actuation: 0.03 sec. 0.03 sec.
- Repeatability: ±0.0008 in. ±0.02 mm

*with Option RE or RI

---

Grippers are supplied with open side air ports and top manifold air ports plugged. Top manifold sealing dimensions shown.

---

**Loading Information**

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

**BASIC MODEL**
- SAFETY SPRINGS
  - External Clamping RE
  - Internal Clamping RI
  - Leave Blank. No Spring Option (standard)

**EXTENDED STROKE**
- SAFETY SPRINGS: (See below)
- VITON® SEALS

**SENSOR ACCESSORIES**
- Inductive Sensor Holder Kit (1 Holder, 1 Flag, 2 Spacers) SD-REP-63 1 to 2
- Inductive NPN Sensor M8 with Quick Disconnect OISH-011 1 to 4
- Inductive PNP Sensor M8 with Quick Disconnect GISP-011 1 to 4
- Quick Disconnect 2 Meter Cable Length CABL-010 1 to 6
- Quick Disconnect 5 Meter Cable Length CABL-013 1 to 6

**PNEUMATIC ACCESSORIES**
- Standard Seal Repair Kit SLKT-207 1
- Viton® Seal Repair Kit SLKT-207V 1

Detailed sensor information at the end of this section.

---

**PARALLEL GRIPPERS PPC-12-C**

**THROUGH HOLE SERIES**

**Specifications PPC-12-C**
- Total Rated Grip Force @ 100 psi, 7 bar: 201 lbs.* 896 N
- Total Stroke: 0.630 in. 16 mm
- Weight: 2.4 lbs. 1.1 Kg
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- Pressure Range with Springs: 45-100 psi 3-7 bar
- Cylinder Bore Ø: 2.48 in. 63 mm
- Displacement: 1.40 in² 23 cm²
- Temperature Range
  - Standard Seals: -30°~180° F -35°~80° C
  - Viton® Seals: -20°~300° F -30°~150° C
- Actuation: 0.03 sec. 0.03 sec.
- Repeatability: ±0.0008 in. ±0.02 mm

*with Option RE or RI

---

**Third Angle Projection**

Dimensions are symmetrical about centerline

Third Angle Projection

Dimensions are symmetrical about centerline

---

**Locational Tolerance**

±.0005" or ±.013 mm

---

**Grippers are supplied with open side air ports and top manifold air ports plugged. Top manifold sealing dimensions shown.**

---

**Warning!**

DO NOT EXCEED MAXIMUM EFFECTIVE FINGER LENGTHS

---

**Loading Capacity**

**Static**
- Maximum Tensile T: 214 lbs. [960 N]
- Maximum Compressive C: 281 lbs. [1250 N]
- Maximum Moment Mx: 177 lbs. [20 Nm]
- Maximum Moment My: 177 lbs. [20 Nm]
- Maximum Moment Mz: 531 lbs. [60 Nm]

**Dynamic**
- Maximum Tensile T: 49 lbs. [220 N]
- Maximum Compressive C: 49 lbs. [220 N]
- Maximum Moment Mx: 53 in.-lbs. [6 Nm]
- Maximum Moment My: 53 in.-lbs. [6 Nm]
- Maximum Moment Mz: 89 in.-lbs. [10 Nm]

*Capacities are per set of jaws and are not simultaneous

---

For more information call us at: 1-800-ROBOHAND or 203-261-5558 Fax: 203-452-7418 Visit us on the Internet at: www.destaco.com
PARALLEL GRIPPERS PPC-25
THROUGH HOLE SERIES

Grippers are supplied with open side air ports and top manifold air ports plugged. Top manifold sealing dimensions shown.

Specifications

<table>
<thead>
<tr>
<th>PPC-25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Rated Grip Force @ 100 psi, 7 bar</td>
</tr>
<tr>
<td>Total Stroke</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Pressure Range without Springs</td>
</tr>
<tr>
<td>Pressure Range with Springs</td>
</tr>
<tr>
<td>Cylinder Bore Ø</td>
</tr>
<tr>
<td>Displacement</td>
</tr>
<tr>
<td>Temperature Range</td>
</tr>
<tr>
<td>Standard Seals</td>
</tr>
<tr>
<td>Viton® Seals</td>
</tr>
<tr>
<td>Actuation</td>
</tr>
<tr>
<td>Repeatability</td>
</tr>
</tbody>
</table>

*with Option RE or RI

UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

Grippers are supplied with open side air ports and top manifold air ports plugged. Top manifold sealing dimensions shown.

**Loading Information**

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

**BASE MODEL**

**VITON® SEALS**

SAFETY SPRINGS

(See below)

**SAFETY SPRINGS**

RE External Clamping
RI Internal Clamping
__ Leave Blank, No Spring Option (standard)

**SENSOR ACCESSORIES**

<table>
<thead>
<tr>
<th>Order #</th>
<th>QTY/UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD-REP-83</td>
<td>1 to 2</td>
</tr>
<tr>
<td>OISH-011</td>
<td>1 to 4</td>
</tr>
<tr>
<td>OISP-011</td>
<td>1 to 4</td>
</tr>
<tr>
<td>CABL-010</td>
<td>1 to 6</td>
</tr>
<tr>
<td>CABL-013</td>
<td>1 to 6</td>
</tr>
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**PNEUMATIC ACCESSORIES**

<table>
<thead>
<tr>
<th>Order #</th>
<th>QTY/UNIT</th>
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<tr>
<td>SLKT-208</td>
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</tr>
<tr>
<td>SLKT-208V</td>
<td>1</td>
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</table>

Detailed sensor information at the end of this section.

For more information call us at: **1-800-ROBOHAND** or **203-261-5558** Fax: **203-452-7418** Visit us on the Internet at: **www.destaco.com**
**Specifications**

**PPC-25-C**

- **Total Rated Grip Force @ 100 psi, 7 bar**: 369 lbs.*
- **Total Stroke**: 0.787 in. 20 mm
- **Weight**: 5.1 lbs. 2.3 Kg
- **Pressure Range without Springs**: 30-100 psi 2-7 bar
- **Pressure Range with Springs**: 45-100 psi 3-7 bar
- **Cylinder Bore Ø**: 3.11 in. 85 mm
- **Temperature Range**
  - **Standard Seals**: -30°~180° F -30°~150° C
  - **Viton® Seals**: -20°~300° F -30°~150° C
- **Actuation**: 0.04 sec. 0.04 sec.
- **Repeatability**: ±0.0008 in. ±0.02 mm

*with Option RE or RI

---

**Loading Information**

**How to Order:**

(Order Accessories separately from Basic Model)

**PARALLEL GRIPPERS PPC-25-C THROUGH HOLE SERIES**

<table>
<thead>
<tr>
<th>Loading Capacity</th>
<th>Static</th>
<th>Dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Tensile</strong></td>
<td>292 lbs. [1300 N]</td>
<td>88 lbs. [390 N]</td>
</tr>
<tr>
<td><strong>Maximum Compressive</strong></td>
<td>337 lbs. [1500 N]</td>
<td>88 lbs. [390 N]</td>
</tr>
<tr>
<td><strong>Maximum Moment Mx</strong></td>
<td>266 in.-lbs. [30 Nm]</td>
<td>115 in.-lbs. [13 Nm]</td>
</tr>
<tr>
<td><strong>Maximum Moment My</strong></td>
<td>266 in.-lbs. [30 Nm]</td>
<td>115 in.-lbs. [13 Nm]</td>
</tr>
<tr>
<td><strong>Maximum Moment Mz</strong></td>
<td>620 in.-lbs. [70 Nm]</td>
<td>221 in.-lbs. [25 Nm]</td>
</tr>
</tbody>
</table>

*Capacities are per set of jaws and are not simultaneous

---

**SAFETY SPRINGS**

- **External Clamping**: RE
- **Internal Clamping**: RI

---

**Viton® SEALS**

**SENSOR ACCESSORIES**

<table>
<thead>
<tr>
<th>Order #</th>
<th>QTY/UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD-REP-83</td>
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</tr>
<tr>
<td>GISN-011</td>
<td>1 to 4</td>
</tr>
<tr>
<td>GISN-013</td>
<td>1 to 4</td>
</tr>
<tr>
<td>CABL-010</td>
<td>1 to 6</td>
</tr>
<tr>
<td>CABL-013</td>
<td>1 to 6</td>
</tr>
</tbody>
</table>

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**PNEUMATIC ACCESSORIES**

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<tr>
<td>SLKT-206V</td>
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**Detailed sensor information at the end of this section.**
Specifications

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</tr>
</thead>
<tbody>
<tr>
<td>Total Rated Grip Force @ 100 psi, 7 bar</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Pressure Range without Springs</td>
</tr>
<tr>
<td>Pressure Range with Springs</td>
</tr>
<tr>
<td>Cylinder Bore Ø</td>
</tr>
<tr>
<td>Displacement</td>
</tr>
<tr>
<td>Temperature Range</td>
</tr>
<tr>
<td>Viton® Seals</td>
</tr>
<tr>
<td>Actuation</td>
</tr>
<tr>
<td>Repeatability</td>
</tr>
</tbody>
</table>

*with Option RE or RI

Fittings Not Included

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 ±0.005" or [±0.13mm]

UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

Metric Threads

Course Pitch

Third Angle Projection

SENSOR ACCESSORIES

Order # | QTY/UNIT
--- | ---
SD-REP-113 | 1 to 2
OSN-011 | 1 to 4
GISP-011 | 1 to 4
CABL-010 | 1 to 6
CABL-013 | 1 to 6

SAFETY SPRINGS

SAFETY SPRINGS

RE External Clamping
RI Internal Clamping

SENSOR ACCESSORIES

Order # | QTY/UNIT
--- | ---
SD-REP-113 | 1 to 2
OSN-011 | 1 to 4
GISP-011 | 1 to 4
CABL-010 | 1 to 6
CABL-013 | 1 to 6

PNEUMATIC ACCESSORIES

Standard Seal Repair Kit

Viton® Seal Repair Kit

Detailed sensor information at the end of this section.

---

For more information call us at: 1-800-ROBOHAND or 203-261-5558  Fax: 203-452-7418  Visit us on the Internet at: www.destaco.com
Specifications PPC-34-C

**PPC-34-C**

- **Total Rated Grip Force @ 100 psi, 7 bar**: 638 lbs.* 2838 N*
- **Total Stroke**: 1.181 in. 30 mm
- **Weight**: 11.7 lbs. 5.3 Kg
- **Pressure Range without Springs**: 30-100 psi 2-7 bar
- **Pressure Range with Springs**: 45-100 psi 3-7 bar
- **Cylinder Bore Ø**: 4.33 in. 110 mm
- **Displacement**: 7.81 in³ 128 cm³
- **Temperature Range**
  - **Standard Seals**: -30°~180° F -35°~80° C
  - **Viton® Seals**: -20°~300° F -30°~150° C
- **Actuation**: 0.05 sec 0.06 sec
- **Repeatability**: ±0.0008 in. ±0.02 mm

*with Option RE or RI

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

**BASIC MODEL**

- **SAFETY SPRINGS**
  - **External Clamping** RE
  - **Internal Clamping** RI
  - Leave Blank. No Spring Option (standard)

**EXTENDED STROKE**

- **PPC-34 C** (See below)

**SAFETY SPRINGS** RE External Clamping RI Internal Clamping Leave Blank. No Spring Option (standard)

**VITON® SEALS**

**SENSOR ACCESSORIES**

<table>
<thead>
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**PNEUMATIC ACCESSORIES**

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**Detailed sensor information at the end of this section.**

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**Specifications PPC-34-C**

**Total Rated Grip Force @ 100 psi, 7 bar**: 638 lbs.* 2838 N*

**Total Stroke**: 1.181 in. 30 mm

**Weight**: 11.7 lbs. 5.3 Kg

**Pressure Range without Springs**: 30-100 psi 2-7 bar

**Pressure Range with Springs**: 45-100 psi 3-7 bar

**Cylinder Bore Ø**: 4.33 in. 110 mm

**Displacement**: 7.81 in³ 128 cm³

**Temperature Range**

- **Standard Seals**: -30°~180° F -35°~80° C
- **Viton® Seals**: -20°~300° F -30°~150° C

**Actuation**: 0.05 sec 0.06 sec

**Repeatability**: ±0.0008 in. ±0.02 mm

*with Option RE or RI

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

**BASIC MODEL**

- **SAFETY SPRINGS**
  - **External Clamping** RE
  - **Internal Clamping** RI
  - Leave Blank. No Spring Option (standard)

**EXTENDED STROKE**

- **PPC-34 C** (See below)

**SAFETY SPRINGS** RE External Clamping RI Internal Clamping Leave Blank. No Spring Option (standard)

**VITON® SEALS**

**SENSOR ACCESSORIES**

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**VITON® SEALS**

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SENSOR ACCESSORIES

Accessory (SD): Inductive Sensor Holders

Each kit allows sensing up to 2 jaw positions: open jaws, closed jaws, or part present. Two kits can be used on each gripper allowing sensing up to 4 positions. The accessory (SD) comes with 1 sensor holder, 1 flag, 2 spacers and screws for mounting. The sensors are not included.

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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### PPC Series Exploded View

#### Item  Qty  Name
01  1  Body
02  1  Cam Driver Piston
04  1  Cap
05  3  Cam Lever
06  3  Jaw
07  3  Cover
08  1  Shielded Case
09  3  Pivot Pin
65  6  Springs

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

**Assembly Procedure**
1) Lubricate and install the seals onto the cam driver piston
2) Lubricate and install the seals into the cap
3) Plug rear ports in the cap if rear inlets are not used. If rear inlets are used, plug body ports.
4) Insert the piston into body. Place springs into counterbore holes between the body and the piston for -RE option or between the piston and the cap for -RI option
5) Assemble the cap
6) Insert together the jaw and the cam lever into the body
7) Insert the pivot pin aligning cam lever hole. Screw SS Screw into the body for preventing pivot pin from moving
8) Assemble the cover
9) Assemble the shielded case

**SK Seal Repair Kit Order #'s**
See Product Data Sheets
Accessory Installation & Adjustment Instructions

Installation-Inductive Sensor
1) Assemble the sensor holder (#50) onto the gripper
2) Place the flag (#52) on one of the jaws above the sensor holder
3) Place the spacer (#53) on the other jaws
4) Position sensor for desired stroke position
5) Tighten sensor locking nuts (#56) to hold sensor depth
6) Repeat these operations in case of the use of two sensors holders

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

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