



Unique, patented, modular design uses common components to reduce your purchase price and stocking requirements.

Features a robust hardened steel chassis and grip force up to 450 lb at 80 psi (200kg at 551kPa).

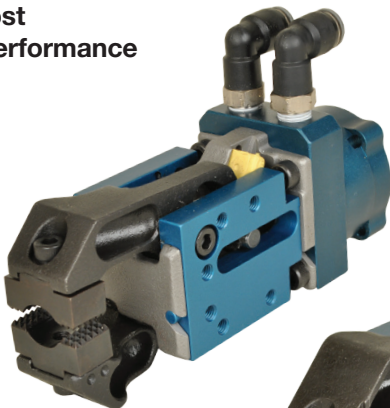
Quick and easy to configure and repair in less than five minutes by just removing one bolt on each side.

A 4mm hex wrench is all that's required for all configuration and repair.

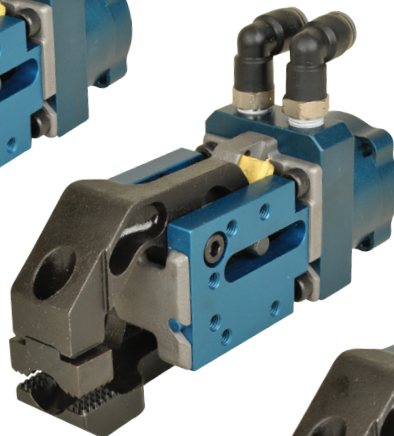
Full line of mounting brackets and adapters allows grippers to be used with all types of tooling.

Indirect and In-Pad sensors with PNP, NPN, or 2 Wire 24-140V ACDC outputs ensure compatibility with all control logic.

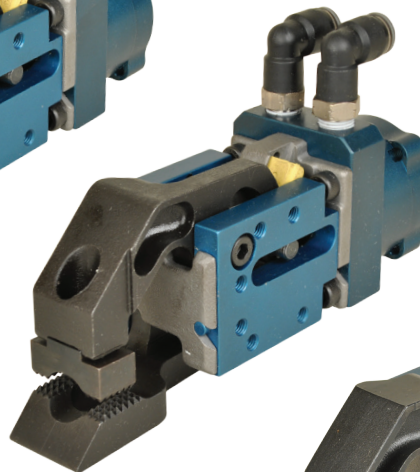
Versatile
Low cost
High Performance



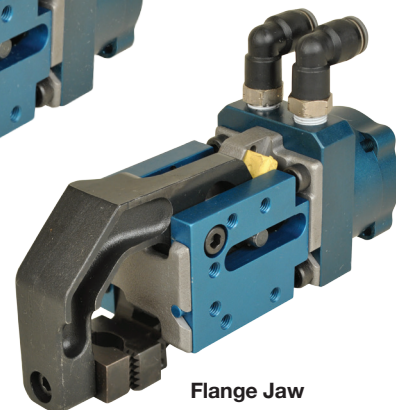
Regular Jaw



Chisel Jaw

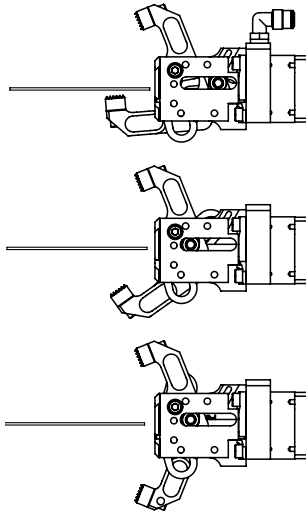


Shovel Jaw



Flange Jaw

Regular Jaw

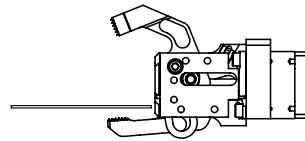
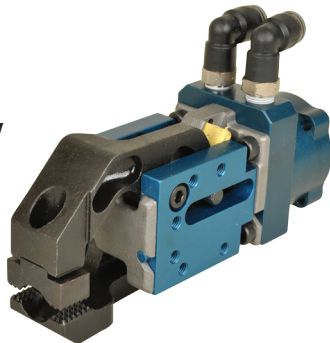


General purpose gripper for transfer finger or EOAT use.
 Wide angle Jaw opening accommodates blanks with inconsistent pick up location.
 Available jaw configurations:

| | | |
|----------|-----------|-----------|
| 22° x 0° | 22° x 11° | 22° x 22° |
| 45° x 0° | 45° x 22° | 45° x 45° |
| 70° x 0° | 70° x 35° | 70° x 70° |

Indirect and In-pad part present sensors available.
 Indirect double blank sensor available.
 See data sheet 00732SP for detailed information.

Chisel Jaw

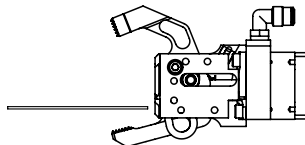
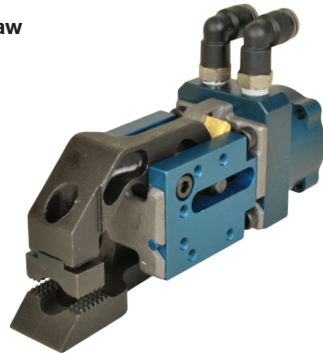


Low profile chisel/shovel jaw useful in dies with low clearance or low lift parts.
 Available jaw configurations:

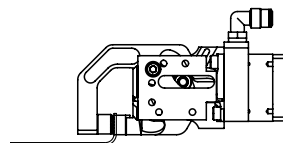
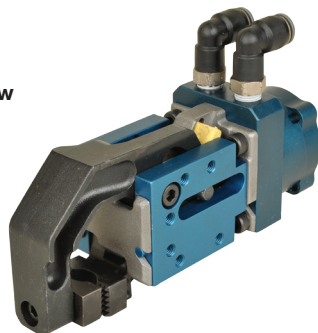
| | |
|----------|-----------|
| 22° x 0° | 22° x 14° |
| 45° x 0° | 45° x 14° |
| 70° x 0° | 70° x 14° |

Indirect and In-pad part present sensors available.
 Indirect double blank sensor available.
 One jaw pad is mounted on a moving jaw (upper).
 The lower jaw does not have a removable pad.
 See data sheet 00768SP for Chisel Jaw detailed information.
 See data sheet 13007SP for Shovel Jaw detailed information.

Shovel Jaw



Flange Jaw



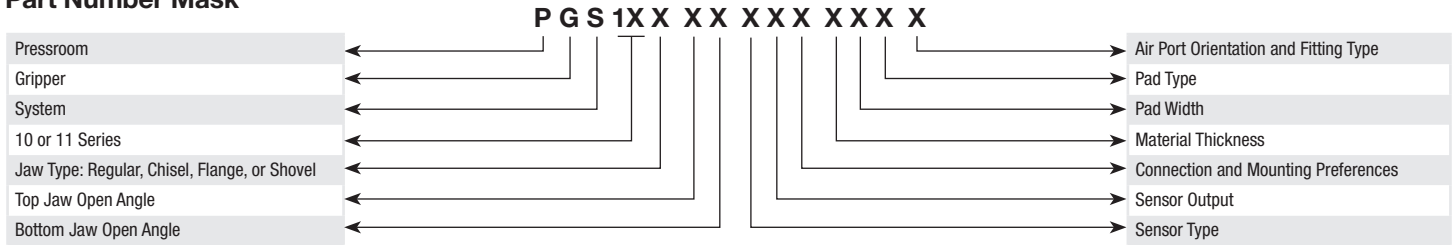
Mounted vertically from gantry tooling.
 Drop down on part and reach around edge to lift.
 Flange jaw allows gripping directly on the formed flange edge.
 Available jaw configurations:

| |
|----------|
| 22° x 0° |
| 45° x 0° |
| 70° x 0° |

Indirect and In-pad part present sensors available.
 See data sheet 00770SP for detailed information.



Part Number Mask



| | |
|------------------|--|
| Body | Hard Coat Aluminum |
| Jaw Pads | Hardened Steel |
| Working Pressure | 60 psi min - 100psi max 413 kPa min - 689 kPa Min |
| Lubrication | Permanent for non-lube air |
| Grip Force | Up to 450 lb (200 kg) |
| Cycles | MCBF 5 Million |
| Actuation Times | 0.050 close / <0.090 open |
| Weight | 1.6 lbs (716 grams) |
| Air Ports | 1/8" NPS or 1/8 Rc |
| Front Face | Hardened Steel |

General Notes

In-Pad sensor cannot be used with:

0.5" [12.7mm] wide pads

Rubber pads

15° or 45° angle pads

Indirect sensors cannot be used with:

Rubber Pads

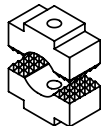
Double Point Pads

Jaw Pads

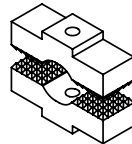
Flat pads for general purpose gripping.



XS0



XM0

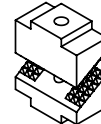


XD0

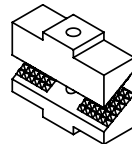
Angle pads for more challenging panels.



XSX

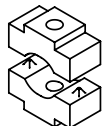


XMx

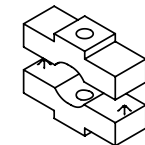


XDX

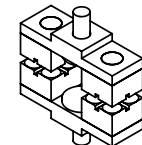
Special Purpose Pads



XMD



XDD



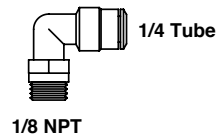
RDR

Double Point Pads won't load up on galvanized panels

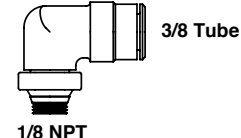
Rubber Pads won't leave scratches on panels.

Air Fittings

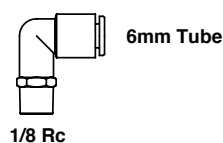
Air fittings can be ordered preassembled to the gripper.



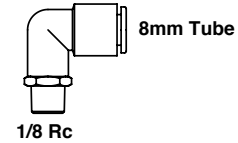
1/8 NPT



1/8 NPT



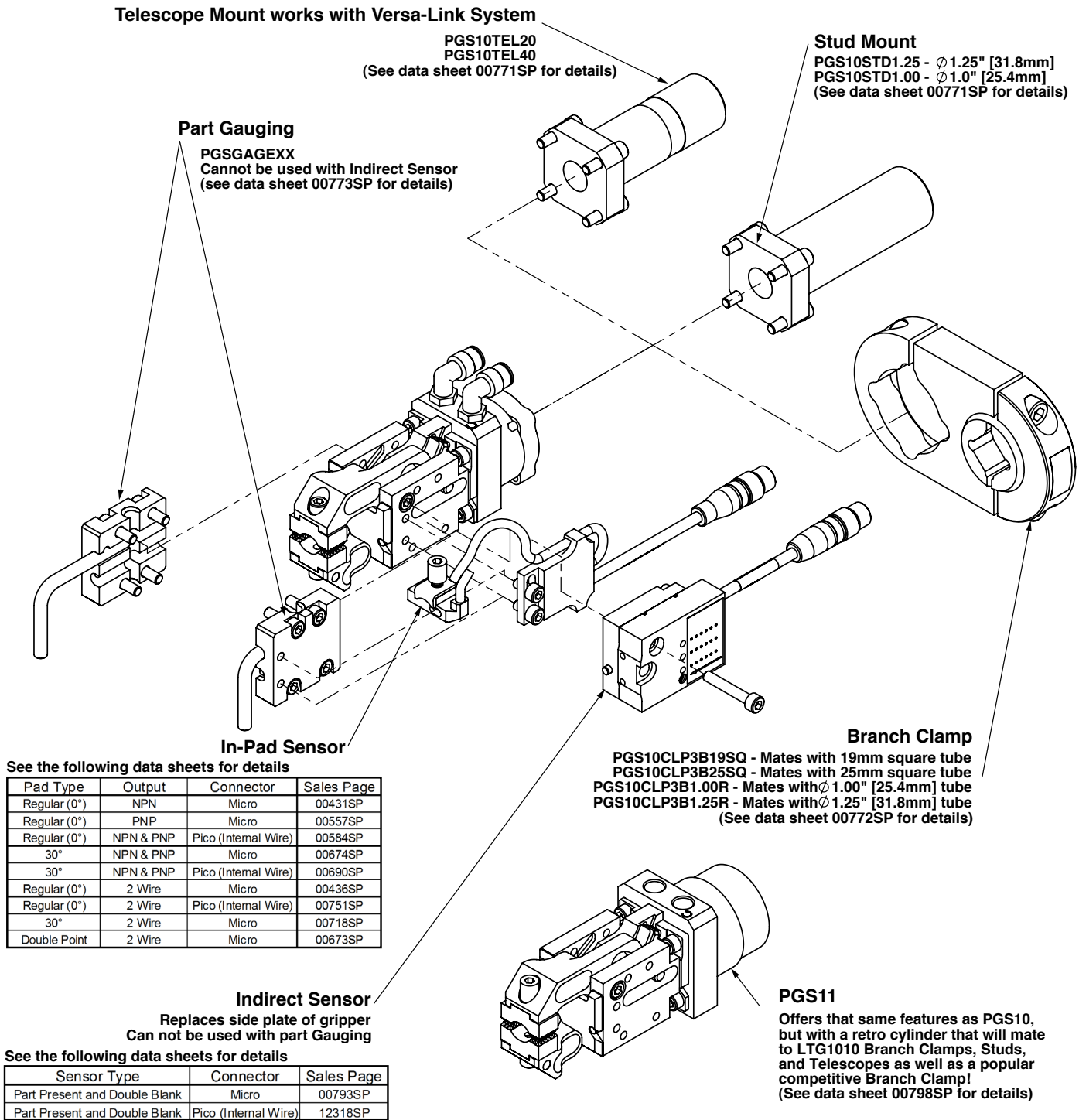
1/8 Rc



1/8 Rc

See technical data sheets for more options.

Accessories



For data sheet PGS10/11 repair kit information see 00775SP



Warning

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction data sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Proposition 65: These products may contain chemicals known to the state of California to cause cancer, or birth defects, or other reproductive harm.

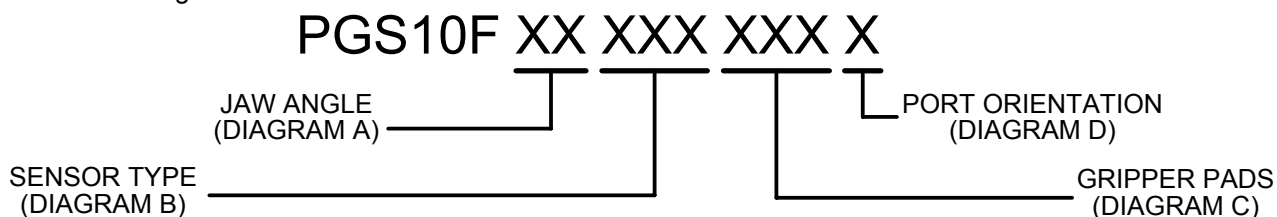
Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.

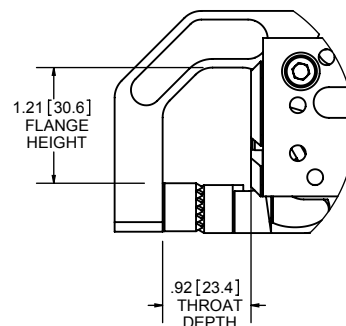
PGS10 Series Flange Jaw Grippers

DIMENSIONAL DATA

For LTG1010 backward compatibility see PGS11 on page 7.
All PGS11 configuration data is the same as PGS10.



| | |
|------------------|--|
| Throat depth | .91 [23.1mm] |
| Flange Height | 1.20 [30.4mm] |
| Jaw Pads | Hardened Steel |
| Body | Hardcoat Aluminum |
| Lubrication | Permanent for non-lube air |
| Working Pressure | 60psi min. - 100psi max. 413kPa min. - 689kPa max |
| Grip Force | *Up to 450 lb @ 80psi Up to 200 kg @ 551kPa |
| Cycles | MCBF 5 million |
| Actuation time | .050 ± .010 sec close / <.090 sec open |
| Weight | **1.69lbs. (766 grams) |
| Air Ports | 1/8" NPS or 1/8 Rc |



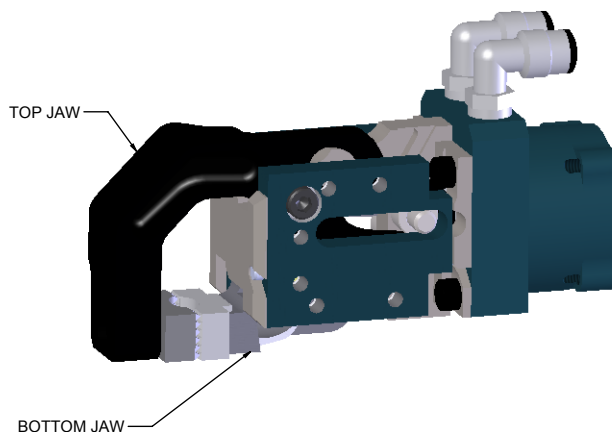
* Double sided force measurement
** Weight is with air fittings and 1.0" wide pads

DIAGRAM A

JAW ANGLE OPTIONS

PGS10F XX XXX XXX X

| JAW TYPE | TOP JAW ANGLE | BOTTOM JAW ANGLE | CODE |
|----------|---------------|------------------|-----------|
| FLANGE | 22 | 0 | 20 |
| | 45 | 0 | 40 |
| | 70 | 0 | 70 |



All technical data subject to change without notice

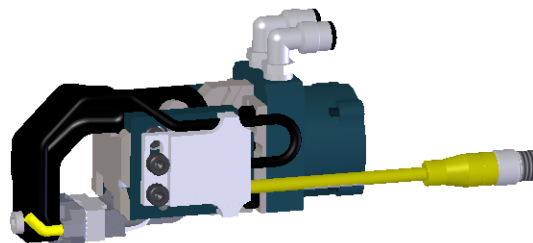
PGS10 Series Flange Jaw Grippers

DIMENSIONAL DATA

- NOTES:**
1. In-Pad sensors are only available with 1.0" wide regular and 30° angled pads
 2. In-Pad sensors are available for .5-3.5mm and 2.01-5.0mm thickness.
 3. In-Pad sensors can only be used in the following combinations for Angled pads (30° only)
CODE: #4, TOP LEFT or BOTTOM LEFT.
 4. No sensor option NUL

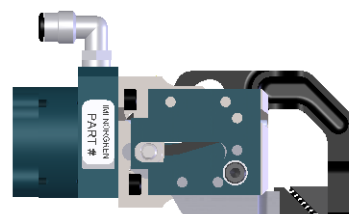
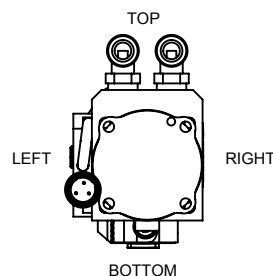
PGS10F XX **X** **X** **X** XXX X

| TYPE | CODE | OUTPUT | CODE | PAD | CONNECTOR | PAD MOUNT | PCB MOUNT | CODE |
|--------|------|--------|------|----------------------|----------------------|-----------|-----------|------|
| In-Pad | I | NPN | N | Reg (0°) | Micro | Top | Right | A |
| | | | | | | Left | Left | B |
| | | | | | Bottom | Right | Right | C |
| | | | | | | Left | Left | D |
| | | | | Pico (Internal Wire) | Top | Right | Right | E |
| | | | | | | Left | Left | F |
| | | | | | Bottom | Right | Right | G |
| | | | | | | Left | Left | H |
| | | | | 30° | Micro | Top | Left | K |
| | | | | | | Bottom | Left | M |
| | | | | | Pico (Internal Wire) | Top | Left | P |
| | | | | | | Bottom | Left | R |
| | | | | Double Point | Micro | Top | Left | T |
| | | | | | | Bottom | Left | V |
| | | | | | Pico (Internal Wire) | Top | Right | W |
| | | | | | | Left | Left | Y |
| In-Pad | I | PNP | P | Reg (0°) | Micro | Top | Right | Z |
| | | | | | | Left | Left | 2 |
| | | | | | Bottom | Right | Right | I |
| | | | | | | Left | Left | 9 |
| | | | | 30° | Micro | Top | Right | 3 |
| | | | | | | Bottom | Left | 4 |
| | | | | | Pico (Internal Wire) | Top | Left | 6 |
| | | | | | | Bottom | Left | 8 |
| | | | | Double Point | Micro | Top | Right | A |
| | | | | | | Left | Left | B |
| | | | | | Bottom | Right | Right | C |
| | | | | | | Left | Left | D |
| In-Pad | I | 2 WIRE | 2 | Reg (0°) | Micro | Top | Right | E |
| | | | | | | Left | Left | F |
| | | | | | Bottom | Right | Right | G |
| | | | | | | Left | Left | H |
| | | | | 30° | Micro | Top | Left | K |
| | | | | | | Bottom | Left | M |
| | | | | | Pico (Internal Wire) | Top | Left | P |
| | | | | | | Bottom | Left | R |
| | | | | Smooth (0°) | MICRO | Top | Right | I |
| | | | | | | Left | Left | 9 |
| | | | | | Bottom | Right | Right | 3 |
| | | | | | | Left | Left | 4 |
| | | | | Smooth (30°) | MICRO | Top | Left | 6 |
| | | | | | | Bottom | Left | 8 |
| In-Pad | I | 2 WIRE | T | Reg (0°) | Micro (4 Pin 1 Key) | Top | Right | A |
| | | | | | | Left | Left | B |
| | | | | | | Right | Right | C |
| | | | | | | Left | Left | D |



For detailed sensor information please see Sales Pages:

| Pad Type | Output | Connector | Sales Page |
|--------------|-----------|----------------------|------------|
| Regular (0°) | NPN | Micro | 00431SP |
| Regular (0°) | PNP | Micro | 00557SP |
| Regular (0°) | NPN & PNP | Pico (Internal Wire) | 00584SP |
| 30° | NPN & PNP | Micro | 00674SP |
| 30° | NPN & PNP | Pico (Internal Wire) | 00690SP |
| Regular (0°) | 2 Wire | Micro | 00436SP |
| Regular (0°) | 2 Wire | Pico (Internal Wire) | 00751SP |
| 30° | 2 Wire | Micro | 00718SP |
| Double Point | 2 Wire | Micro | 00673SP |
| Regular (0°) | 2 Wire | 4 Pin Micro | 13484SP |



CODES K,M,P,R FOR THE 30° IN-PAD ARE ONLY COMPATIBLE WITH 30° PAD TYPE CODE 4

PGS10R XX XXX XXX X

| Sensor Code, In-Pad Sensor, 30° Pads | Pad Type Code 30° Angle Pads Only |
|--------------------------------------|-----------------------------------|
| K | |
| M | 2 |
| P | 4 |
| R | 6 |
| 6 | 8 |
| 8 | |

See page 4 for detailed pad information
All technical data subject to change without notice

PGS10 Series Flange Jaw Grippers

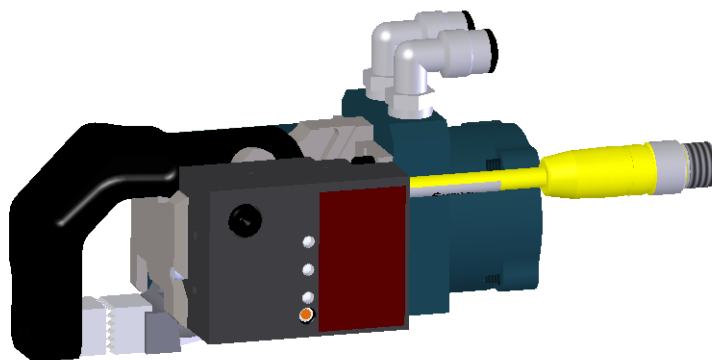
DIMENSIONAL DATA

DIAGRAM B SENSOR TYPE CON'T

- NOTES:**
1. Gaging accessories can not be used on the same side as an Indirect Sensors.
 2. Double point and Rubber pads can not be used on Indirect Sensors.
 3. No sensor code- **NUL**

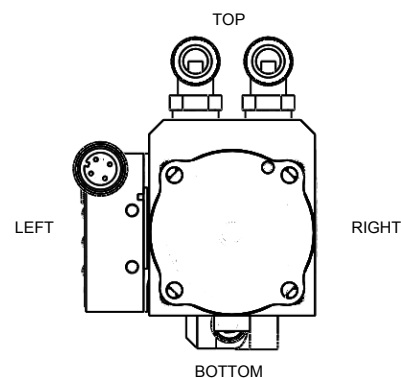
PGS10F XX **X** **X** **X** XXX X

| TYPE | CODE | OUTPUT | CODE | CONNECTOR | MOUNT SIDE | CODE |
|--------------------------|------|--------|------|-------------------------------|------------|------|
| INDIRECT PART PRESENT | H | NPN | N | MICRO | RIGHT | R |
| | | | | | LEFT | L |
| | | | | PICO 3 PIN (Internal wire) | RIGHT | E |
| | | | | | LEFT | W |
| | | PNP | P | MICRO | RIGHT | R |
| | | | | | LEFT | L |
| | | | | PICO 3 PIN (Internal wire) | RIGHT | E |
| | | | | | LEFT | W |
| NO SENSOR CODE - NUL | | | | | | |



For detailed sensor information please see Sales Pages:

| Sensor Type | Connector | Sales Page |
|--------------|----------------------|------------|
| Part Present | Micro | 00793SP |
| Part Present | Pico (Internal Wire) | 12318SP |



All technical data subject to change without notice

PGS10 Series Flange Jaw Grippers

DIMENSIONAL DATA

DIAGRAM C

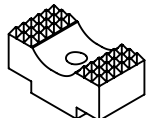
GRIPPER PADS

- NOTES:**
- 30° & 45° Angle pads only available in code 4 & 6 orientations.
 - Double point pads only available in 1.0" & 1.5" widths.
 - Double point and Rubber pads can not be used on Indirect Sensors.
 - Rubber pads thickness range 0.5-2.5mm.
 - No pad code - **NUL**

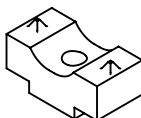
PGS10F XX XXX X X X X

| Material Thickness & Pad Color | | Code | Pad Width | Code | Pad Type | Code |
|--------------------------------|-------------------|------|----------------|------|---|-----------------------|
| Material Thickness | Pad Color | | | | | |
| .50 - 2.0mm | 2 Black | 1 | 0.5" / 12.7mm | S | Regular (0°) 15° Angle 30° Angle 45° Angle | 0 1 or 2 4 6 |
| 2.01 - 3.5mm | 2 Silver | 3 | 1.0" / 25.4mm | M | | |
| 3.51 - 5.0mm | 1 Silver & 1 Gold | 4 | 1.50" / 38.1mm | D | | |
| .50 - 2.0mm | 2 Black | 1 | 1.0" / 25.4mm | M | Double Point | D |
| 2.01 - 3.5mm | 2 Silver | 3 | | | | |
| 3.51 - 5.0mm | 1 Silver & 1 Gold | 4 | | | | |
| .50 - 2.0mm | 2 Black | 1 | 1.50" / 38.1mm | D | Double Point | D |
| 2.01 - 3.5mm | 2 Silver | 3 | | | | |
| 3.51 - 5.0mm | 1 Silver & 1 Gold | 4 | | | | |
| .50 - 2.5mm | 2 Rubber | R | 1.5" / 3.8mm | D | Rubber | R |
| .50 - 2.0mm | 2 Black | 1 | .50" / 12.7mm | S | Smooth | S |
| 2.01 - 3.5mm | 2 Silver | 3 | | | | |
| 3.51 - 5.0mm | 1 Silver & 1 Gold | 4 | | | | |
| .50 - 2.0mm | 2 Black | 1 | 1.0" / 25.4mm | M | Smooth | S |
| 2.01 - 3.5mm | 2 Silver | 3 | | | | |
| 3.51 - 5.0mm | 1 Silver & 1 Gold | 4 | | | | |
| .50 - 2.0mm | 2 Black | 1 | .50" / 12.7mm | S | Convex | C |
| 2.01 - 3.5mm | 2 Silver | 3 | | | | |
| 3.51 - 5.0mm | 1 Silver & 1 Gold | 4 | | | | |
| .50 - 2.0mm | 2 Black | 1 | 1.0" / 25.4mm | M | Convex | C |
| 2.01 - 3.5mm | 2 Silver | 3 | | | | |
| 3.51 - 5.0mm | 1 Silver & 1 Gold | 4 | | | | |

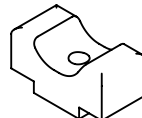
REGULAR PADS



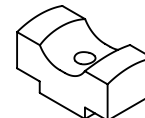
DOUBLE POINT PADS



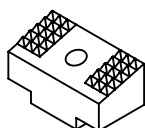
SMOOTH PADS



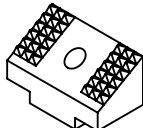
CONVEX PADS



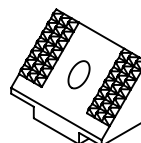
ANGULAR PADS



15°

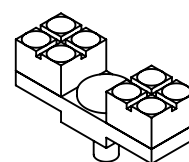


30°

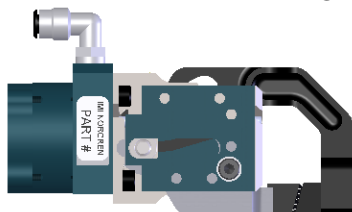


45°

RUBBER PADS

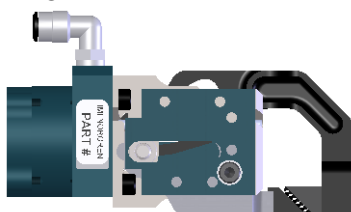


ANGLE PAD ORIENTATION



CODE 1 (15° ANGLE) ONLY.

Pad Type Code
1

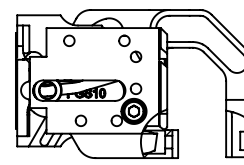


CODES K.M.P.R. FOR THE 30° IN-PAD
ARE ONLY COMPATIBLE
WITH 30° PAD CODE 4

See page 2 for detailed IN- PAD sensor information

Pad Type Code
2
4
6

NO PADS (NUL)



1.020"-1.080"
[25.9 - 27.4]

GRIP RANGE WITH NO PADS

All technical data subject to change without notice

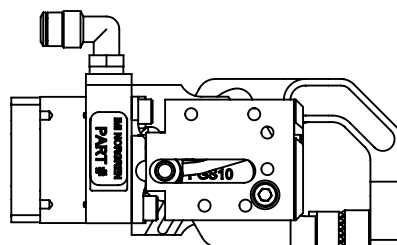
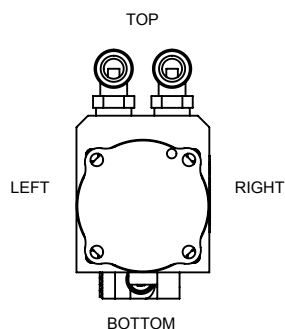
PGS10 Series Flange Jaw Grippers

DIMENSIONAL DATA

DIAGRAM D

PGS10F XX XXX XXX X

| AIR PORT ORIENTATION | TUBE SIZE | CODE |
|----------------------|---------------------------------|------|
| TOP | 1/4" TUBE | A |
| | 3/8" TUBE | B |
| | 6mm TUBE | C |
| | 8mm TUBE | D |
| | NO FITTINGS 1/8" NPS THREADS | E |
| | NO FITTINGS 1/8 Rc | F |
| RIGHT | 1/4" TUBE | G |
| | 3/8" TUBE | H |
| | 6mm TUBE | J |
| | 8mm TUBE | K |
| | NO FITTINGS 1/8" NPS THREADS | L |
| | NO FITTINGS 1/8 Rc | M |
| BOTTOM | 1/4" TUBE | N |
| | 3/8" TUBE | P |
| | 6mm TUBE | Q |
| | 8mm TUBE | R |
| | NO FITTINGS 1/8" NPS THREADS | S |
| | NO FITTINGS 1/8 Rc | T |
| LEFT | 1/4" TUBE | U |
| | 3/8" TUBE | V |
| | 6mm TUBE | W |
| | 8mm TUBE | Y |
| | NO FITTINGS 1/8" NPS THREADS | Z |
| | NO FITTINGS 1/8 Rc | 2 |



All technical data subject to change without notice

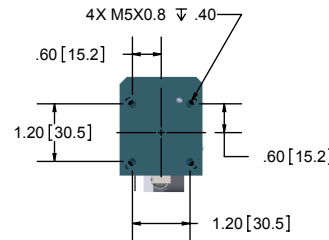
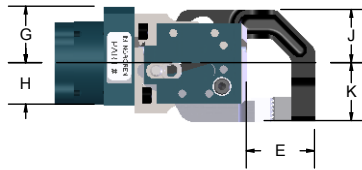
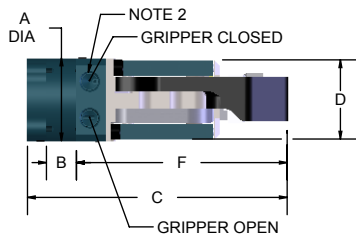
PGS10 Series Flange Jaw Grippers

DIMENSIONAL DATA

TOP VIEW

SIDE VIEW

BACK VIEW



| DIM | MM | INCHES |
|-----|-------|--------|
| A | 43.8 | 1.73 |
| B | 15.9 | 0.63 |
| C | 137.2 | 5.40 |
| D | 41.9 | 1.65 |
| E | 35.8 | 1.41 |
| F | 111.2 | 4.38 |
| G | 29.8 | 1.18 |
| H | 21.9 | .86 |
| J | 29.9 | 1.18 |
| K | 30.7 | 1.21 |

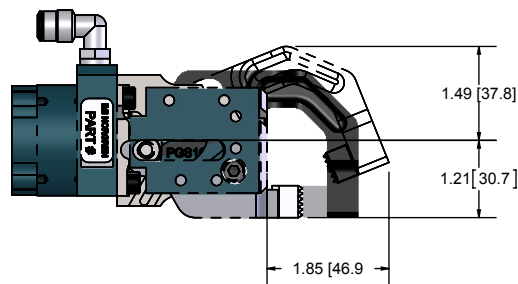
NOTE 1

SEE PAGES 4 FOR VARIOUS GRIPPER PADS

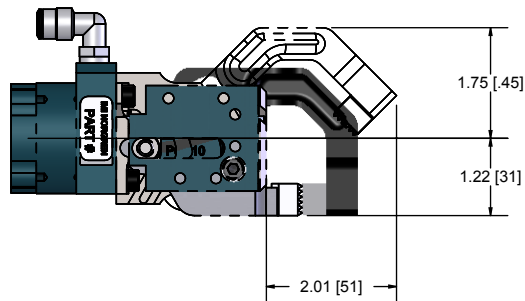
NOTE 2

1/8" NPS or 1/8 Rc

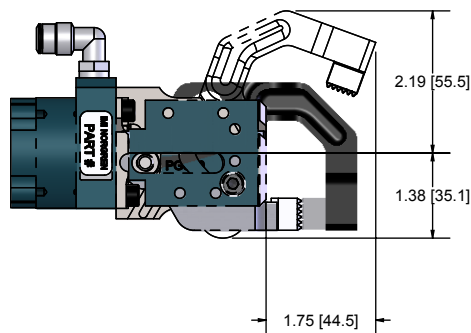
22° X 0°



45° X 0°



70° X 0°

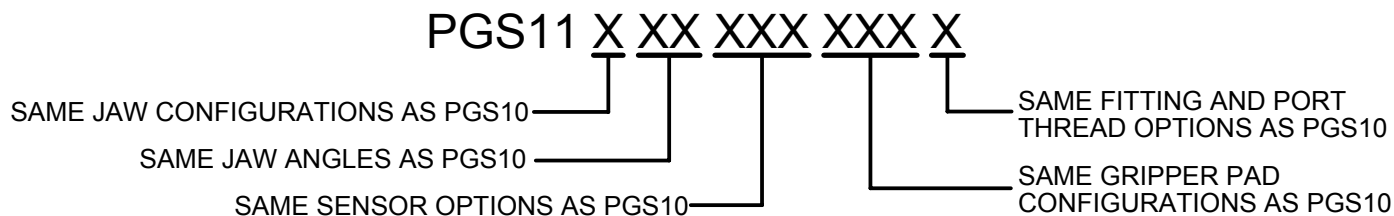


All technical data subject to change without notice

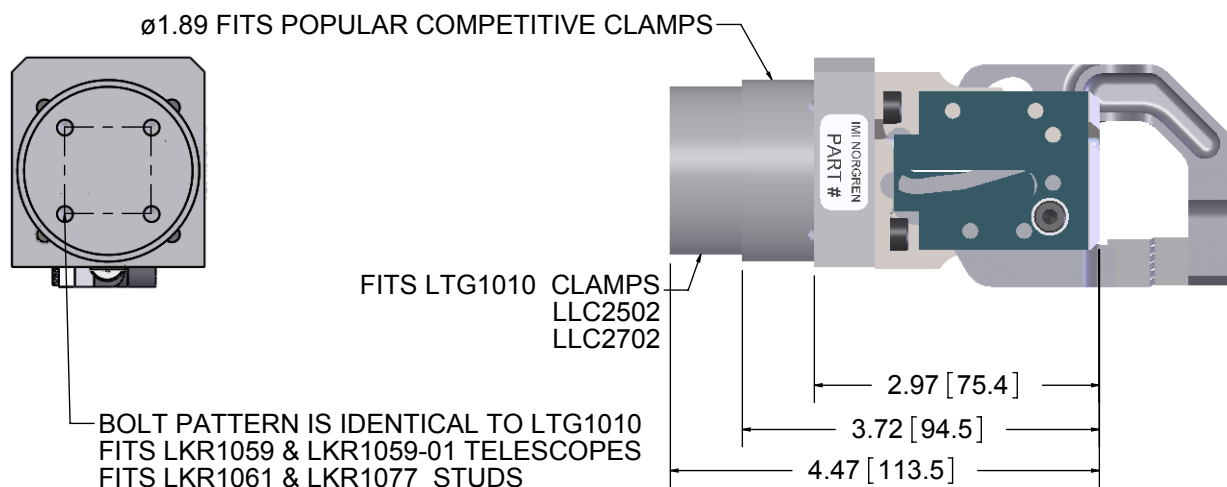
PGS10 Series Flange Jaw Grippers

DIMENSIONAL DATA

PGS11 is backward compatible with LTG1010.

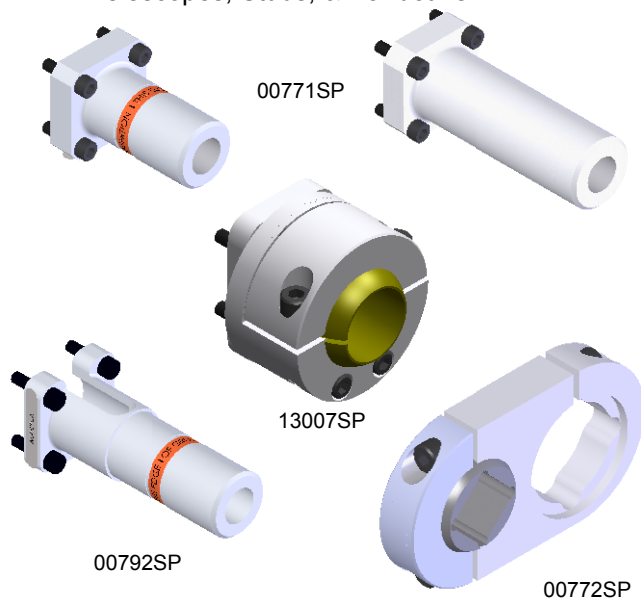


PGS11

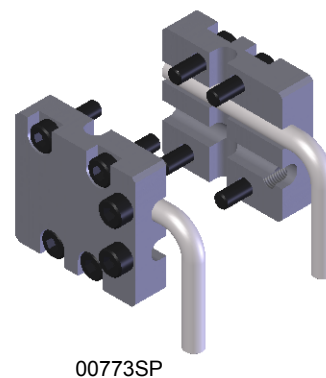


**Flange Jaw shown - Dimensions are typical of all jaw configurations.
For detailed dimensional data see page 6.**

FOR PGS10 MOUNTING
Telescopes, Studs, & Handcuffs



GAGING



All technical data subject to change without notice