

# Tube Grabber CCB

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The Blockwise **Tube Grabber™** is a high pressure, panel-mounted quick connector for tubes, Luer fittings, or other items that need a fluid connection. It provides a fast, ergonomic, and reliable fluid connection to your product for processing or testing. Tube grabbers are also often used for holding product, much like a chuck.



## Operation

Insert your tube, Luer fitting, or component, then actuate by applying pilot pressure (either manually or automatically), causing the rubber seal to tightly grip your product, then run your process or test through the main port.

## Features

- Seals on most tubes to at least 300 psi [20 bar]
- Panel mounting with screws from rear or, with optional bracket, from front
- Large straight-through port allows mandrels or catheter tips to pass through connector
- Suitable for product diameters from 0.5 mm (0.02 inch) to 8 mm (0.31 inch)
- Quick & safe operation

## Specifications

Body & Face Material	Aluminum, anodized Mil-A-8625, Type II clear
Seal Material	Urethane 40A or 60A durometer, natural color
Lubrication	A small amount of Dupont Krytox grease is applied to the outside of the rubber seal (McMaster #10195K29)
Pilot Pressure Range	50 to 100 psi
Main (Process) Pressure Rated Range	Full vacuum to 600 psi

## Rubber Seals

When actuated, the Tube Grabber axially compresses a urethane rubber seal. The ID of the seal collapses, gripping the inserted item. Tube Grabbers and seals are sold separately. Blockwise stocks various ID sizes to match your product.

**Select the smallest seal that is at least 0.015 inch larger than your product diameter.** The harder 60A durometer urethane is the default choice because it's very durable. The softer 40A can maintain the seal at higher pressures, useful in some applications such as balloon forming and high-pressure leak testing. The pressure limit beyond which where the product is pushed out of the seal depends on many factors, including the diameter, material (friction), pilot pressure. But the 60A urethane can usually retain the product up to at least 300 psi on any size nylon tube. For sealing on the threads of Luer fittings, we recommend the C042-U-A-60A-.315.

## Ordering Information

**Tube Grabbers** are stocked and sold separately, without rubber seals. Order model number **CCB**.

**Single Urethane Seals** Appropriate backing washers are included. The listed part numbers are stocked.



Single Urethane Seal Size [inch]	40A (Soft)	60A (Hard)
.040	C042-U-A-40A-.040	C042-U-A-60A-.040
.063	C042-U-A-40A-.063	C042-U-A-60A-.063
.088	C042-U-A-40A-.088	C042-U-A-60A-.088
.114	C042-U-A-40A-.114	C042-U-A-60A-.114
.141	C042-U-A-40A-.141	C042-U-A-60A-.141
.170	C042-U-A-40A-.170	C042-U-A-60A-.170
.200	C042-U-A-40A-.200	C042-U-A-60A-.200
.232	C042-U-A-40A-.232	C042-U-A-60A-.232
.270	C042-U-A-40A-.270	C042-U-A-60A-.270
.315	C042-U-A-40A-.315	C042-U-A-60A-.315

**3-Pack Urethane Seals** Order part number C079 for 40A (soft) or C060 for 60A (hard). Appropriate backing washers are included. The listed part numbers are stocked.

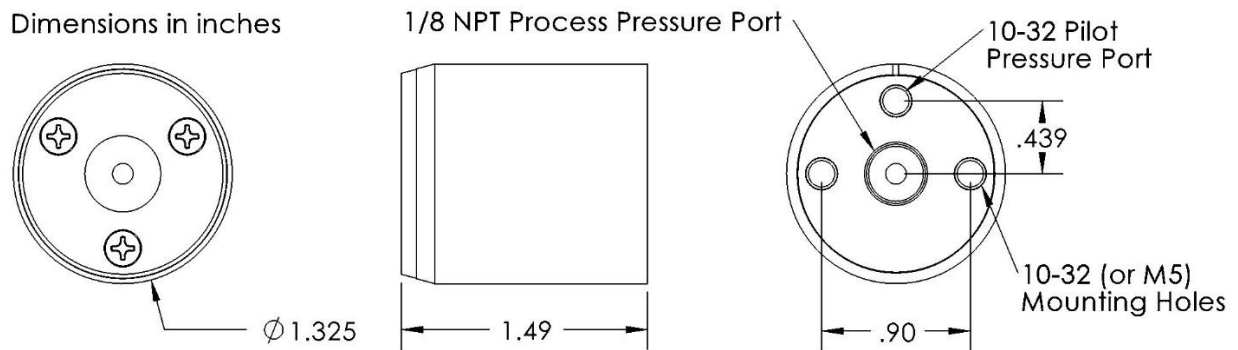


3-Pack Urethane Seal Size [inch]	40A (Soft)	60A (Hard)
.040	C079-040	C060-040
.063	C079-063	C060-063
.088	C079-088	C060-088
.114	C079-114	C060-114
.141	C079-141	C060-141
.170	C079-170	C060-170
.200	C079-200	C060-200
.232	C079-232	C060-232
.270	C079-270	C060-270
.315	C079-315	C060-315

**Seal kits with a variety of sizes:** Kits containing all the sizes from .040 to .200 (not including the three largest sizes) are available. **Order B344 for 40A (soft) or B265 for 60A (hard).**



### Installation & Operating Instructions



#### Mounting:

Two 10-32 tapped holes are provided for mounting from the rear. M5 screws can also be used.

#### Fluid Connections:

Attach a pressure-regulated air source to the pilot port, through a valve. Attach the process line to the process port.

#### Operation:

1. Insert your tube, Luer fitting, or component into the connector.
2. Activate pilot pressure to grip and seal. (Pilot pressure should be set high enough to achieve a good seal.)
3. Run your process or test through the main port.
4. Relieve pilot pressure.
5. Remove your component.

The face mount bracket (PN C048, sold separately) attaches to the back of CCB, allowing 10-32 or M5 mounting screws from the front.

