

Ports and Plugs



25 mm Port Plugs

There are three styles of plugs available from Broadley-James Corporation for straight threaded ports. All are designed to accommodate 25 mm ports and are made from 316L stainless steel. The primary difference in each design is the placement of the o-rings.



Straight Port Plug for Standard 25 mm Port

While these two plugs have the same body dimensions, the o-ring on the Model 303 is further forward, providing a better fit in precision honed ports. The o-rings are silicone, and the distance listed is measured from the inside flange to the top of the o-ring groove.

Model	Part Number	Distance from flange
300	AF-300-61-L040	0.43" (11 mm)
303	AF-303-61-L040	1.17" (30 mm)



B. Braun
Biotech
Plug

Straight Plug for B. Braun Biotech 25 mm Port

The longer body and forward o-ring are necessary for this plug to properly seal in a B. Braun Biotech port. The unique design of these ports makes the position of the o-ring critical for an effective seal. The o-ring is EPDM to conform with B. Braun Biotech's specifications. For more information regarding port identification, see pages 18 and 19.

Part Number	Description
AF-305-62-L055	Straight plug For use with 25 mm B. Braun Biotech ports

Straight 25 mm Threaded Port

Broadley-James offers two 25 mm straight threaded ports, both made of 316L stainless steel. Their i.d. varies to accommodate two different approaches to welding a port to a vessel. The Model 100 has an inner diameter of 25 mm to allow immediate use after welding. The Model 105 has a slightly smaller i.d. to allow the port to be honed out to the proper diameter after it has been attached to the vessel. This second approach is more forgiving of different welding techniques.



Straight
Port

Model	Part Number	Description
100	AF-100-60-L040	25 mm port
105	AF-105-60-L040	Undersized 25 mm port

TIPS & HINTS

Ports & Plugs Although the 25 mm threaded port is a standard within the biotech industry, the term "standard port" is no guarantee that two ports will be exactly the same. The overall length of a 25 mm port may vary from tank to tank. This variation is often due to the wall

thickness of the tank and the manufacturer's specifications. If a particular sensor or plug is not sealing properly in a port, measure the length of the port and compare it to the position of the o-ring. Perhaps a different plug or sensor will work better.

Chamfered 25 mm Threaded Port

This port style is the one most commonly found in the biotech industry. Proper installation will yield a side mounted port at 15° above horizontal. This angle is ideal for D.O. or pH measurement. The measured length is 40 mm from the top of the port to the bottom of the longer side.

Chamfered 25 mm Threaded Port

Part Number	Description
AF-110-60-L040	Standard threaded port, chamfered (15° angle), 25 mm i.d.



Chamfered
Threaded
Port

Chamfered 25 mm Plug

When properly installed, the bottom of this plug should be flush with the tank wall. The length is 40 mm from the inside flange to the end of the longer side of the plug.

Chamfered 25 mm Plug

Part Number	Description
AF-310-61-L040	Chamfered plug, 25 mm o.d.



Chamfered
Plug