

Series 101

101 Cylinder Options

Cylinder Construction

Quincy Ortman Cylinders offers a number of variations in cylinder construction. Descriptions of the more common variation are described below, however Quincy Ortman's engineering staff is capable of designing many more special applications at your request.

Tandem Cylinders

Tandem cylinders are a combination of two cylinders of the same stroke length used in tandem to double cylinder force output. The pistons between the two cylinders are connected with a common rod. For proper results cylinders in the tandem arrangement should be energized simultaneously.

TANDEM CYLINDER



Multi-stage Cylinders

Multi-stage cylinders combine multiple cylinders at different stroke lengths. Piston rods between the cylinders are not connected. This allows each cylinder to be energized independently in sequence to produce multiple stroke levels out of the foremost cylinder.

MULTI-STAGE CYLINDER



Duplex Cylinders

Duplex cylinders are two independent cylinders combined together back-to-back. Duplex cylinders share common tie rods.

DUPLEX CYLINDER



Double Rod End Cylinders

Double rod end cylinders have two rods exiting at either end of the cylinder attached to a single piston. The advantage of double rod end cylinders is that they produce equal force and equal speed in either direction, while performing two operations with one stroke.

DOUBLE ROD END CYLINDER



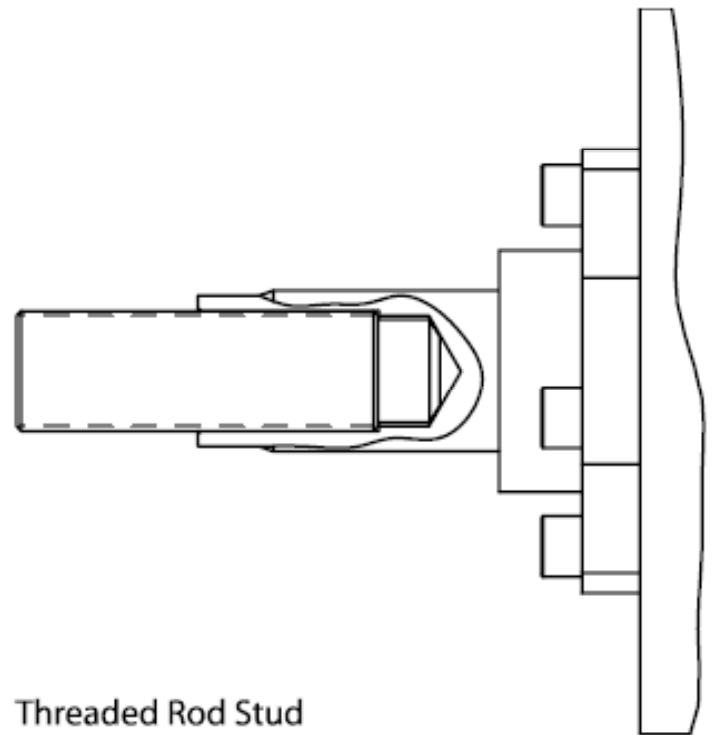
Other 101 Options

Metallic Rod Scrapers

Metallic rod scrapers should be used in place of synthetic wiper seals in applications where contaminants may cling or stick to the extended piston rod. Metallic rod scrapers are available upon request.

Stainless Steel Piston Rods

In applications where the piston rod may be subjected to water, special wash-downs, or weather, stainless steel piston rods should be considered. Quincy Ortman stocks, but is not limited to, 303 and 17-4 ph stainless steel rod stock. Other commonly used stainless materials, such as 304 and 316, are available upon request.



Threaded Rod Stud

Studded Rod Ends

Quincy Ortman offers studded rod ends for applications held in high tension where it may be possible to break or shear standard machined rod ends. For rod sizes $\frac{1}{8}$ " to 2 ft", a rolled thread stud can be threaded into a standard female rod end. Studded rod ends offer higher resistance to thread shear and are more economical to replace in case of fracture.

Plated Finishes and Coatings

Quincy Ortman Cylinders are also available in a number of plated finishes, such as NiCoTef®, Electroless Nickel, Flash Chrome, and Cad plating. Additionally we are prepared to handle most primer, paint and epoxy coating requirements. Contact the sales staff or an authorized distributor near you for details.