

Dual Pilot Tubes & Rack



Part No. FA40255F (Vertical Rack), FA48325F (Horizontal Rack)

- Provides Lubrication At Steering Head During Pilot Tube Installation •
- Allows Visibility Of The Illuminated Target In Steering Head Section •



FEATURES

- One assembly comes complete with twelve or forty pilot tubes, caps, plugs, rack and lifting bar/lifting hoops (for vertical rack).
- Pilot tubes have 2.4 sq. in. of annular area to provide fluid passage.
- Double o-ring seal at joints of inner tube.
- Inner tube treated to resist corrosion which assures good seal at the mating surface to the o-rings.
- Two inch ID to view the illuminated target for steering control.
- Three thread start for fast assembly (one and a half turns to lock). Lock joints at 2,000 ft/lbs.
- Joints tested to 12,000 ft/lbs. of rotational torque.
- Cap and plug included with each pilot tube to protect threads and seals during transport and storage.
- Pre-Lubricated threads for easy assembly.
- The horizontal rack offers manageable unloading/loading of pilot tubes and ease of cleaning of pilot tubes after each drive.

SPECIFICATIONS

Length, Pilot Tube (PT) 30 in. (762 mm)
Length, PT With Cap & Plug
30" PT. 34.75 in. (883 mm)
Length of Assembly
Vertical (12 PT) 30 ft. (9.1 m)
Horizontal (40 PT) 100 ft. (36.6 m)
Tube Diameter (OD) 4.1 in. (104 mm)
Inner Tube Diameter (ID) 2 in. (51 mm)
Assembly Dimension (W x D x H)
V - 14 x 18 x 44.5 in. (356 x 457 x 1130 mm)
H - 34.75 x 26 x 58.5 in. (883 x 660 x 1486 mm)

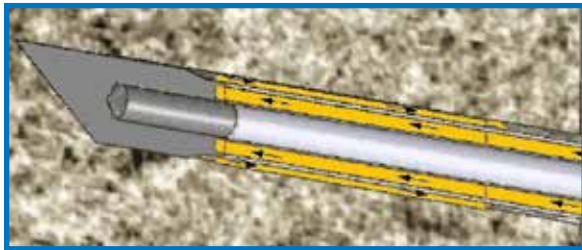
Pilot Tube Weight 73 lbs. (33 kg)
Assembly Weight
Vertical (12 PT) 1,050 lbs. (476 kg)
Horizontal (40 PT) 3,300 lbs. (1,497 kg)
Rotational Torque* 12,000 ft/lbs (16,272 N·m)
Jacking Force 100 Ton (91 mt)
Joint Lock Force 2,000 ft/lbs (2,712 N·m)
* Tested
PT - Pilot Tube



Pilot tube cap and plug protects the threads during transport and storage.



Dual o-rings at the inner tube seals the connection between the pilot tubes. The inner tube is treated to resist corrosion assuring a good seal at the mating surface to the o-rings.



The area in yellow illustrates the fluid path through the dual pilot tubes to the steering head. The fluid flowing out the steering head and along the side of the pilot tubes, reduces the ground friction on the pilot tubes. This fluid lubrication reduces jacking force and rotational torque which makes longer drive distances possible.



Pilot Tube Cap And Plug Maintains clean lubrication of the thread joint between pilot tube use. Protects the o-ring sealing on the inner tube while in storage. The thread joint can be lubricated as the pilot tubes are removed so they are ready for the next drive.



Each pilot tube contains a valve assembly that restricts the fluid from flowing during the installation of the next pilot tube. Fluid can be supplied from the launch shaft or the reception shaft depending on the job requirements.



To lock and unlock the pilot tubes, two parallel dual slots are located on each end of the pilot tube to work in conjunction with tooling on the jacking frame.