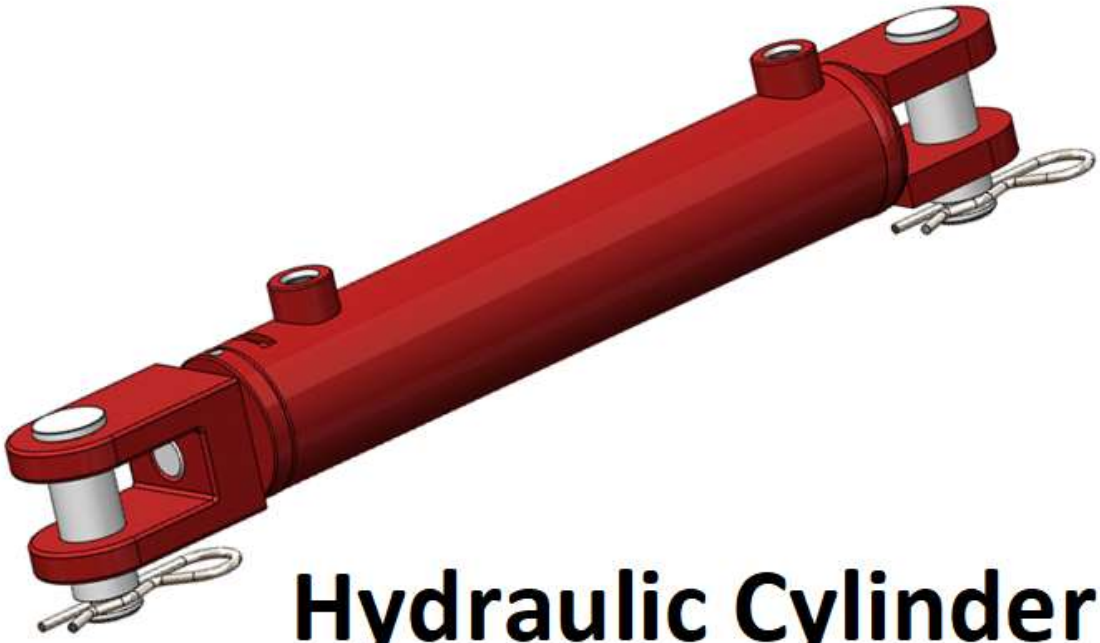
TMS Hydraulics



Hydraulic Cylinder

QUESTIONNAIRE

BASIC DESIGN QUESTIONS

Please provide a drawing to us if you have one. If that drawing includes the blow information, then feel free to skip that question.

BORE SIZE _____

STROKE _____

RETRACTED LENGTH _____

ROD SIZE _____

BASE MOUNT _____

ROD END MOUNT _____

*WORKING PRESSURE _____

*ACTUAL MAXIMUM TENSIL LOAD _____

*ACTUAL MAXIMUM COMPRESSIVE LOAD AND LENGTH _____

SYSTEM RELIEF SETTING _____

CYLINDER VALVE SETTING _____

FLOW RATE _____

CYCLE FREQUENCY

NOTE: Pursuant to ANSI 92.2-2009 we maintain a safety factor of 4:1. If the working pressure is 3,000 PSI then the burst pressure must be 12,000 PSI. This can have a big impact on the cost of the cylinder. Be sure to determine the actual working pressure. Ask us if you have any questions.

PAINT

We will coat the exterior with Red Oxide Primer. If you require a different coating, please let us know. Things to consider are: Nickel Plating, QPQ, Marine Offshore, or additional coatings at your request.

ENVIRONMENT

Please tell us if any of the following conditions exist:

YES NO Ocean Salt Water Spray

YES NO Road Salt, Magnesium Chloride

YES NO Hydrogen Sulfide Atmospheres

YES NO Hot

YES NO Cold

YES NO Humidity

YES NO Acid

YES NO Other: _____

DESIGN QUESTIONS

We appreciate this opportunity to work with you in designing a hydraulic cylinder that is cost effective, does what it is designed to do, and is safe.

TMS Hydraulics is in compliance with the American National Standards Institute (ANSI) A92.2-2009. In many instances we exceed their minimum requirements.

Pursuant to our quality standards, we need answers to certain questions to help us understand the application and design constraints.

CUSTOMER INFORMATION

Business name: _____

Personal Name: _____

Address: _____

Phone: _____

APPLICATION

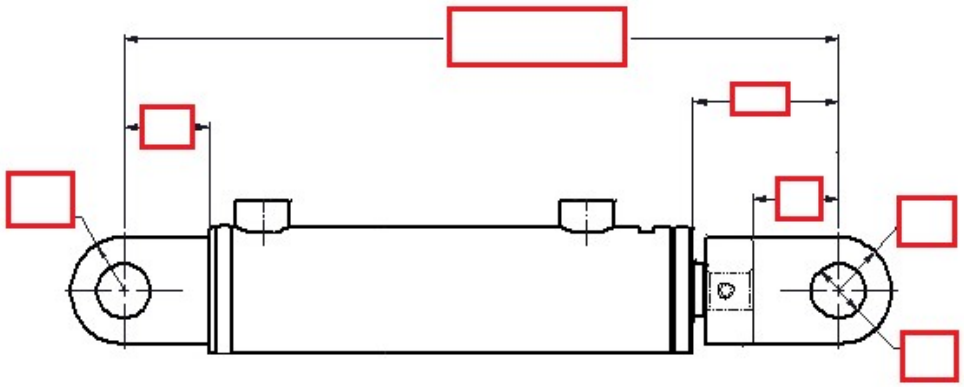
YES NO Will this cylinder be used to lift people?

YES NO Is there any side load? Are there forces that could cause the rod to buckle?

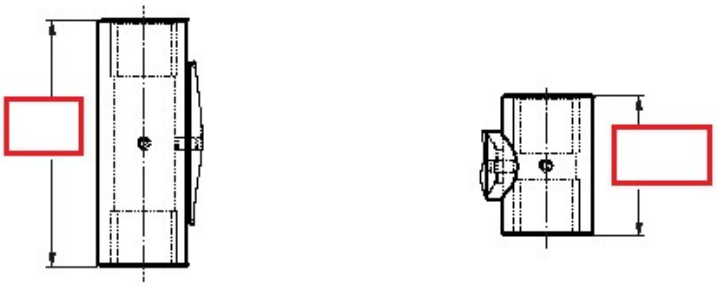
YES NO Is the cylinder supported along the length? (especially for longer cylinders)

PUSH PULL In which direction does this cylinder do most of its work?

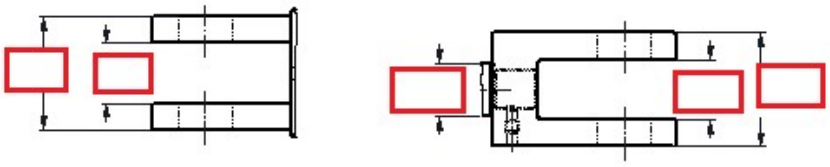
DESIGN WORKSHEET



PINEYE MOUNT



CLEVIS MOUNT



SINGLE LUG MOUNT