

DESCRIPTION

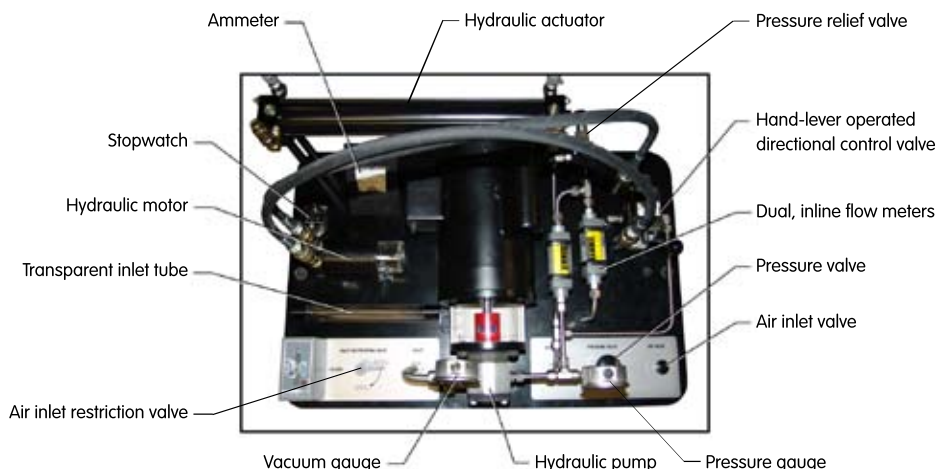
The highly affordable MF400-MP is ideal for teaching the basic principles of hydraulics. This simulator is ideal for teaching the function, characteristics, and basic operating principles of:

- Pressure relief valves
- Hydraulic cylinders
- Hydraulic motors
- Directional control valves

With the MF400-MP, students can also learn the three conditions in which pump cavitation can occur:

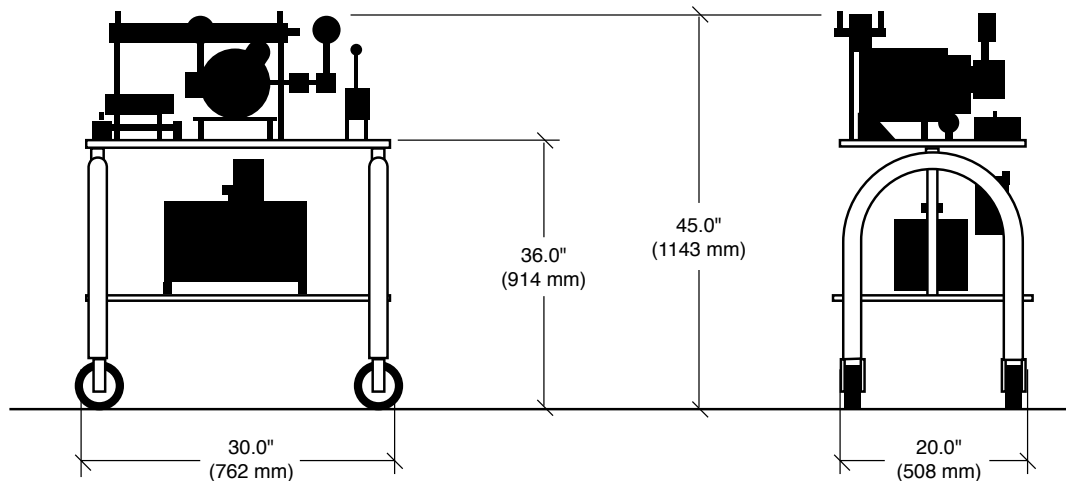
1. Air restriction - restriction at the pump inlet.
2. Air ingression - air enters the inlet side of a pump.
3. Aeration - air bubbles, formed due to returning oil dropping on top of the oil supply in the reservoir, enter the pump inlet.

The MF400-MP is equipped with a transparent reservoir and pump inlet line so the effects of cavitation can actually be seen, not just explained.



MF400-MP features include:

- 1.0 GPM hydraulic gear pump
- 1 HP, 120V, single-phase, electric motor - operates on a single, 20-amp circuit
- Restrictor valve
- Needle valve
- Air valve
- Vacuum gauge
- Pressure gauge
- Two (2) 2.0 GPM inline flow meters
- 3-position, 4-way, open-center, hand-lever operated directional control valve
- Direct-operated pressure relief valve
- Bi-directional hydraulic motor
- Double-acting, single-rod cylinder
- Ammeter
- Flat-face quick disconnects for quick, clean, near oil-free operation
- Electronic stop-watch with auto-retract
- Transparent, hydraulic reservoir with filler/breather cap
- Inline return filter with filter condition indicator
- In-reservoir thermometer
- Electric motor ON/OFF switch with thermal protection
- Transparent hydraulic pump inlet line
- Hydraulic hoses
- Return line ball valve allows oil to terminate above oil level
- Locking, four-wheel casters
- Optional hand-held tachometer



Shipping Specifications:

Shipping weight: 350 lbs (29.5 kg)

Shipping (pallet/crate) dimensions: 48" tall x 48" wide x 40" deep (122cm x 122cm x 102cm)

Warranty:

FPTI™ warrants its products against defect in materials or workmanship for a period of two years from date of delivery.