



Porto Power

4 & 10 ton

BEST PRACTICES

Tool Uses

- ▶ Spreading
- ▶ Clamping
- ▶ Pushing
- ▶ Lifting
- ▶ Frame Straightening



Components

- ▶ Ram
- ▶ Extension tubes
- ▶ Adapters



Ram



Extension Tubes



Adapters

Safety

- ▶ Safety glasses
- ▶ Use common sense at all times
- ▶ Never let the ram slip off material while pressure is applied
- ▶ Never exceed tool's rated pressure capacity (4 or 10 ton)

USE ADAPTERS
ACCORDINGLY FOR
THE GIVEN SITUATION
COMMON SENSE!!!

Inspect Before Use

- ▶ Check all threaded components for
 - ▶ Dirt
 - ▶ Dust
 - ▶ Cuts in threads
- ▶ Make sure the shortest length tube is positioned farthest away from ram when using multiple extension tubes



Furthest From Ram

Set-Up


- ▶ Measure the space applying Porto Power to and find out if you need extension tubes
- ▶ Pick correct adapter according to the situation being used
- ▶ Set pump on a level base
- ▶ Position the adapter securely for the job it will be used for

Operation

- ▶ Slowly operate the pump handle so the ram is extended to meet the load or so the claw has sufficient pressure applied
- ▶ Continue to activate the pump unless it is evident the setup is becoming unstable
- ▶ Stop activating pump once sufficient pressure has been applied for job being completed or once ram is fully extended (handle will become extremely tight)



**Move Up And Down
Until Tightens**

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- ▶ If setup becomes unstable, turn pump's release valve counterclockwise to remove ram pressure
 - ▶ Adjust or change the setup accordingly

NOTE: All rams have return springs that return them to their retracted positions when the pump's release valve is opened

Releasing Pressure

- ▶ Once job is complete turn the release valve counter clockwise two full turns
- ▶ Air will quickly release from compression area
- ▶ Once air pressure is released you can change or remove adapters and components



Release Valve

Watch Out For...

- ▶ Make sure the ram is completely contracted before disconnecting the hose from the ram
- ▶ Never try to remove adapters with pressure still applied (the pressure will shoot the adapter out at you)
- ▶ Tool can't exceed max force
- ▶ Keep fingers away from adapter when pressure is applied

Maintenance

- ▶ A thin coat of general purpose grease must be applied to external threads of all applicable components
- ▶ General purpose grease must be applied to pump's extension tubes, not pump piston
- ▶ Use only Chevron Hydraulic Oil AW ISO 32 or its equivalent Unocal Unax AW 150



Oil Reservoir

Tool Storage

- ▶ Wipe down all components with a clean dry rag
- ▶ Put each piece back in it's designated spot on the cart
- ▶ Store the cart in a clean dry area

Training

Training Quiz



- ▶ <https://www.flexiquiz.com/SC/N/41c51f74-cc3c-46d2-baf1-a059ddb4c735>