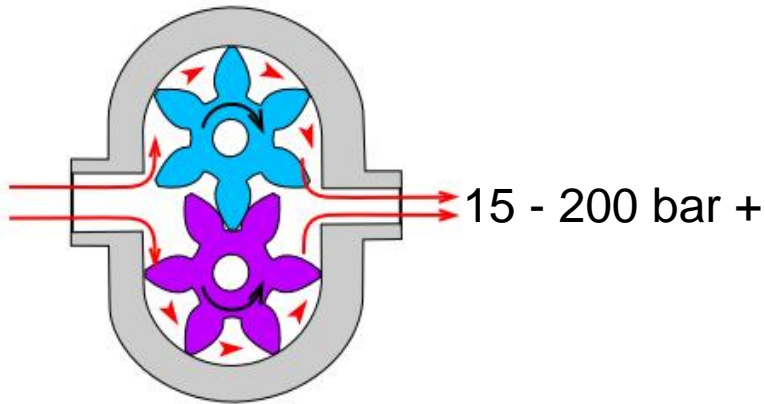


DO YOU KNOW WHAT A SCANWILL INTENSIFIER DOES?

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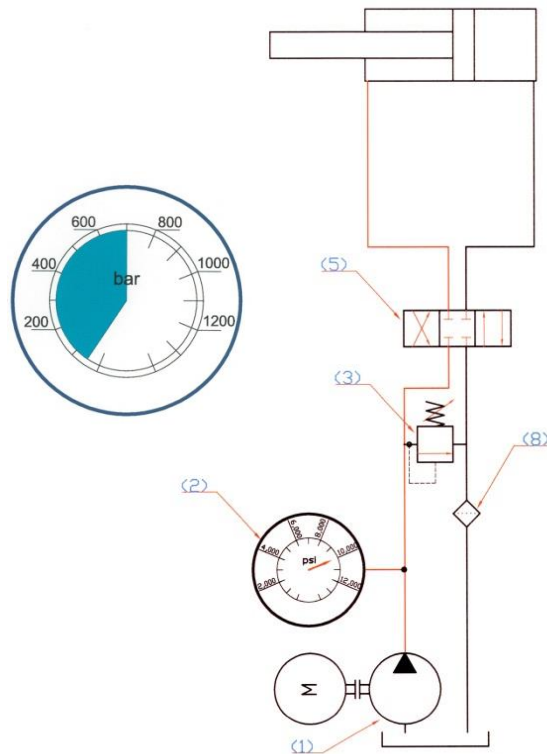
\Rightarrow 500 bar
700 bar
800 bar
2000 bar
2400 bar
2800 bar
4000 bar

The Scanwill intensifier increases a supplied pressure to a higher output pressure!

HOW CAN WE ACHIEVE A HIGH PRESSURE?

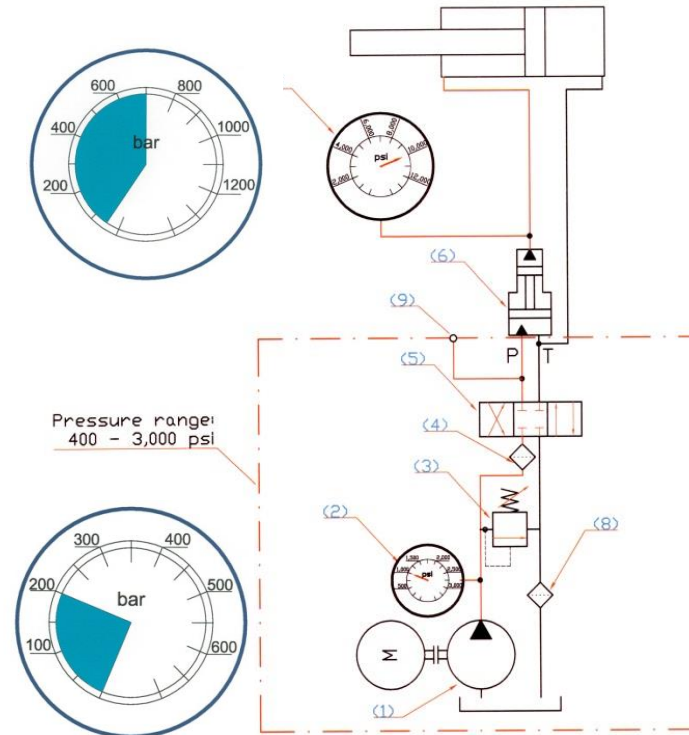
Most Commonly Used Solution:
Standard High Pressure Pump

POWER PACK WITH HIGH PRESSURE PUMP:



The Future Energy Saving Solution:
Scanwill Pressure Intensifier

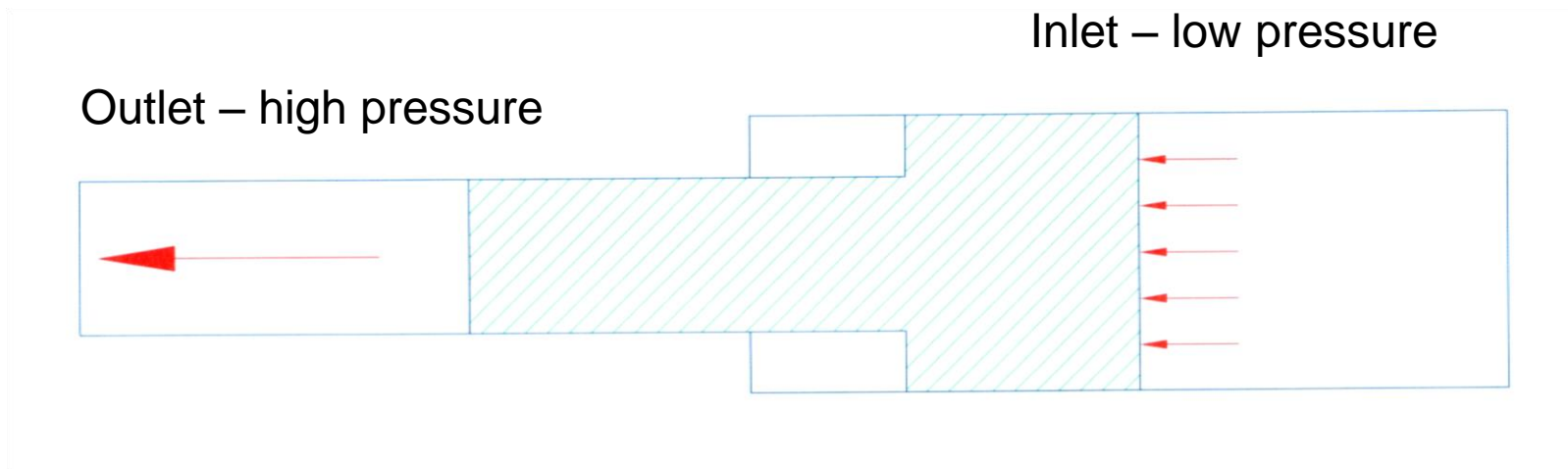
POWER PACK WITH low PRESSURE PUMP & INTENSIFIER:



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THE BASIC PRINCIPLE OF A SCANWILL INTENSIFIER

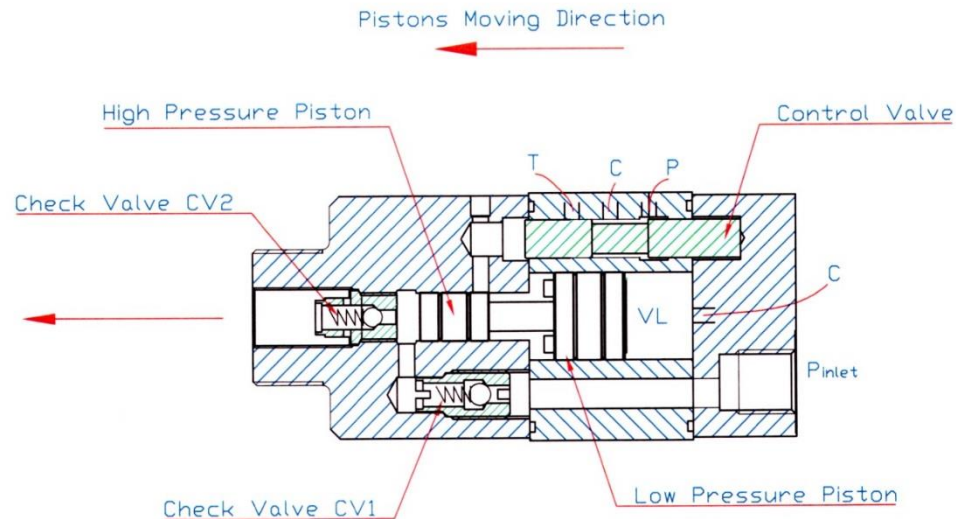
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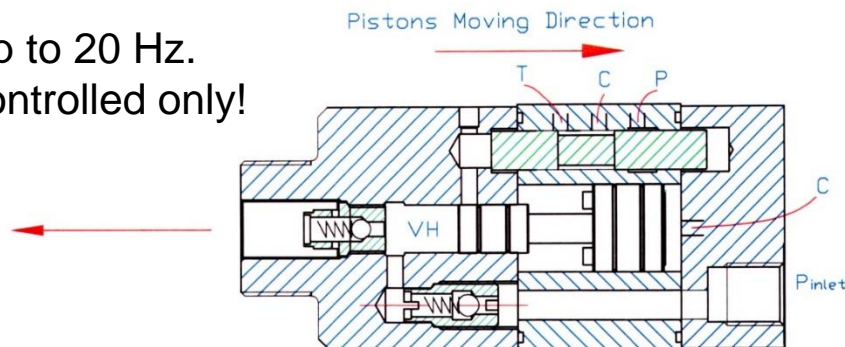
The intensifier function as a small “piston pump” in the system and will constantly deliver flow until the output pressure has been reached.

SCANWILL ADDED VALVES AND MADE A COMPACT DESIGN

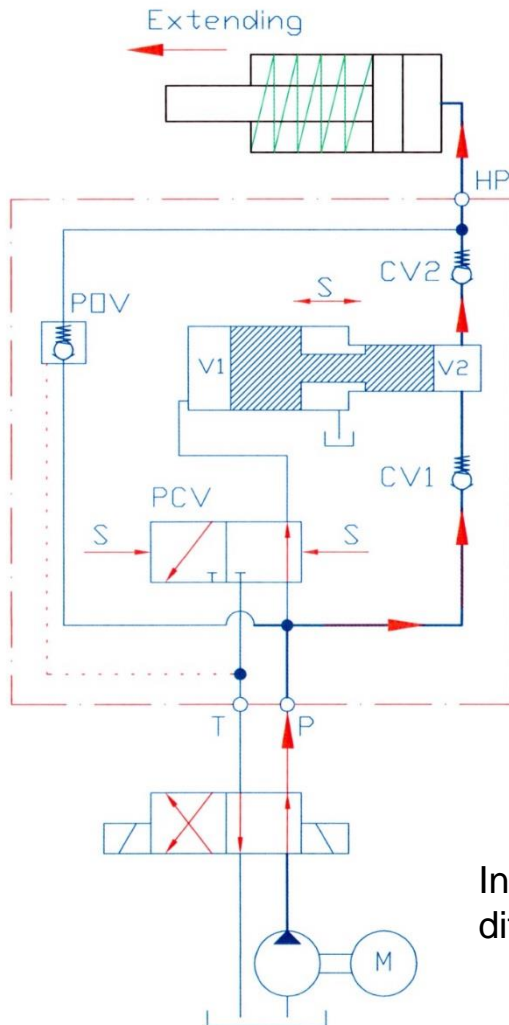
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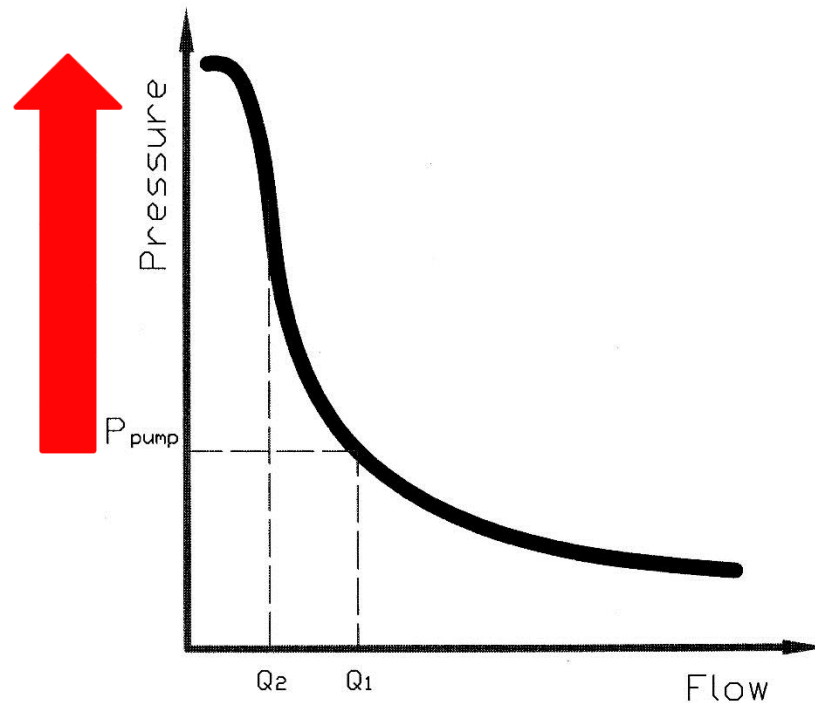
Piston speed up to 20 Hz.
Hydraulically controlled only!



THE BASIC PRINCIPLE & THE GENERAL FLOW-PRESSURE CURVE

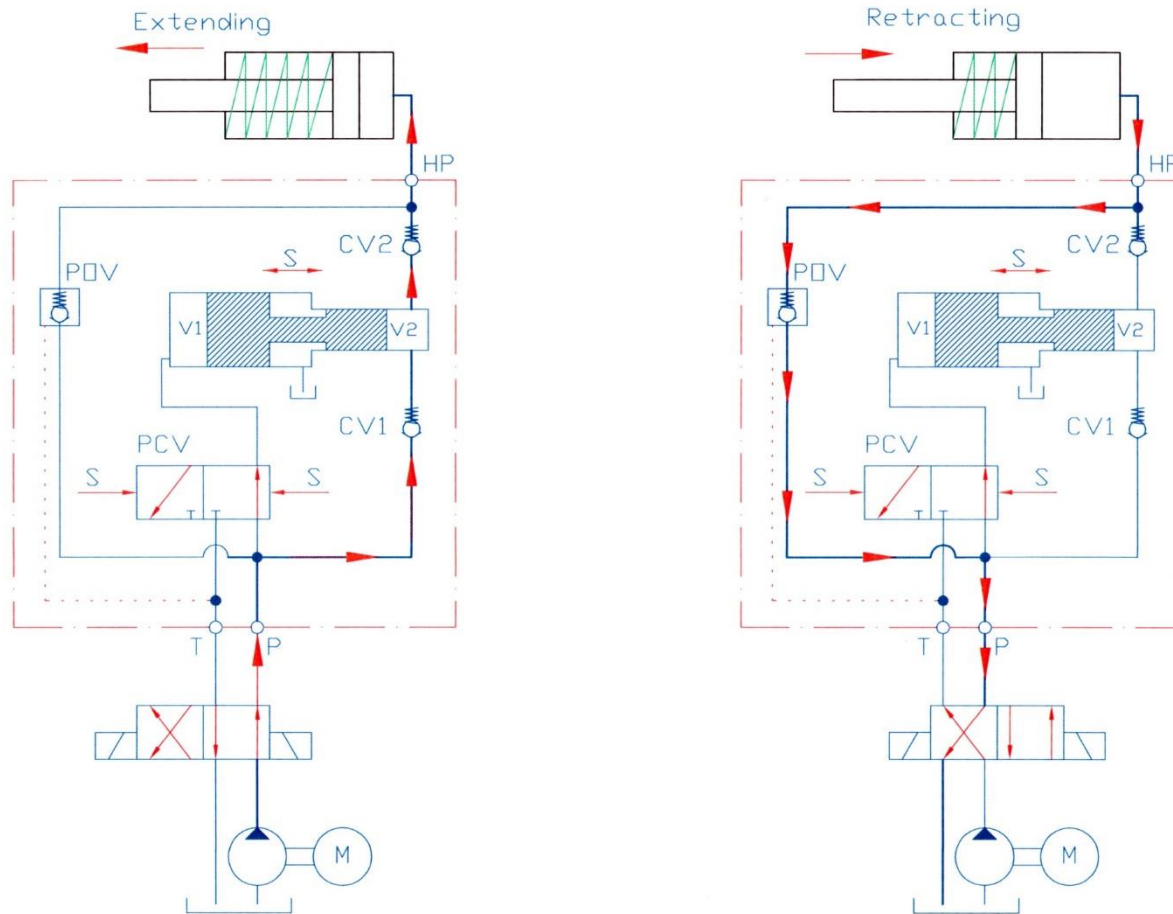


Add-on feature
from intensifier!



Intensifier output pressure equals ratio multiplied by the differential pressure between P & T (P minus T)!

THE EXTENDING & RETRACTING CYCLE OF SCANWILL INTENSIFIERS



SCANWILL INTENSIFIERS TECHNICAL DATA

Material: Cast Iron & Steel (Option: Stainless Steel)

Surface Coating: Chromite Blue Finish

Minimum inlet flow:

MP-T, MP-C, MP-F & MP-2000: 2 LPM

MP-M: 7 LPM

MP-L: 15 LPM

Minimum inlet pressure: 15 bar

Temperature Range: -10 °C to 100 °C

Filtration requirement: Minimum 10 micron nominal

Fluids:
Standard hydraulic oils
Water glycol (min. 5% glycol)
Water (stainless steel units only)

Functionality test: Factory tests – before surface coating/after surface coating



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F.A.Q. ABOUT SCANWILL INTENSIFIERS

Is the intensifier a pump?

No!

Does the T-port need to be connected?

Yes, or it will not oscillate.

Can intensifiers operate on fluid "X"?

If standard hydraulic components are used - then yes! However always ask if special sealing material is required (EPDM, Viton etc.). If it is aggressive fluids check with Scanwill.

Can intensifiers be used for reducing the pressure and/or flow?

No!

Will the intensifiers operate on gas?

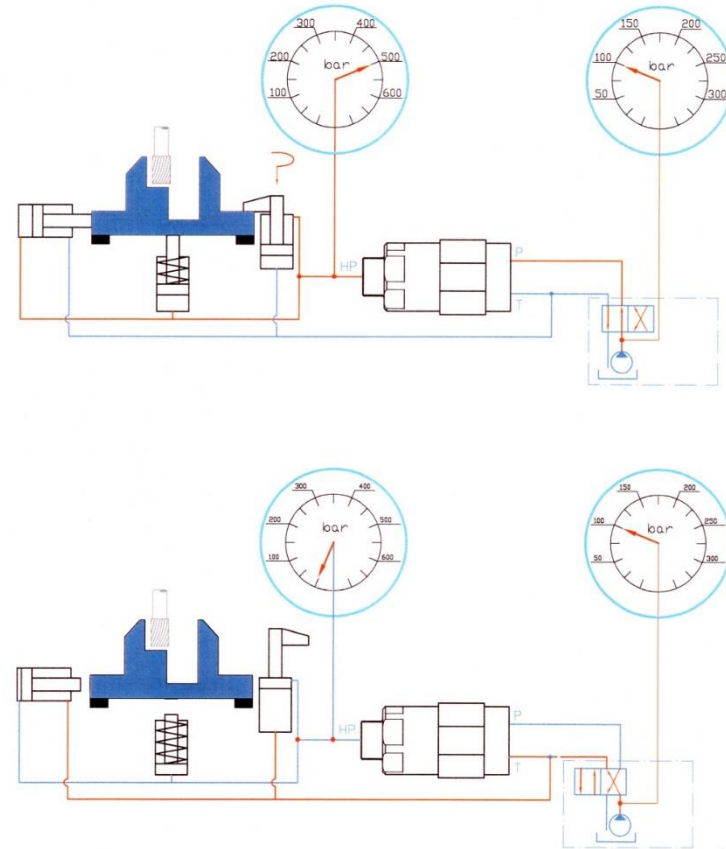
No!

Can the intensifiers be traced?

Yes, they are all stamped with a unique serial number.

APPLICATION: WORK HOLDING

OUTPUT PRESSURE: 250 – 500 BAR



APPLICATION: HYDRAULIC MINING EQUIPMENT

OUTPUT PRESSURE: 300 – 800 BAR

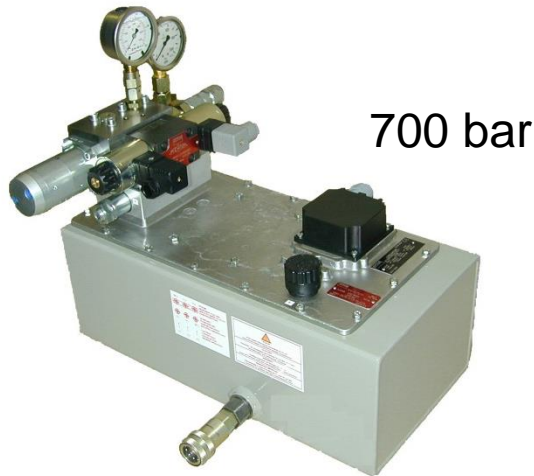
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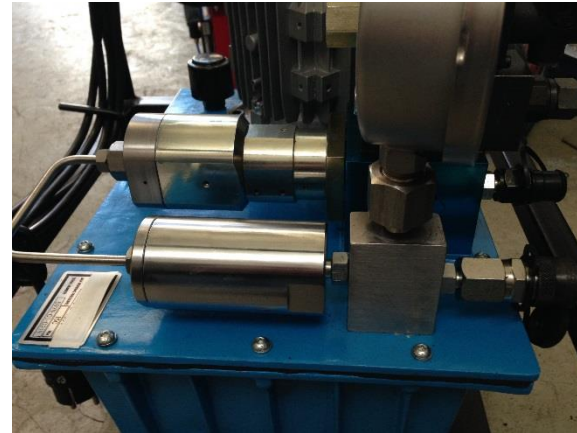
10

APPLICATION: HYDRAULIC POWER PACKS

OUTPUT PRESSURE: 500 – 2,500 BAR



700 bar



2,000 bar

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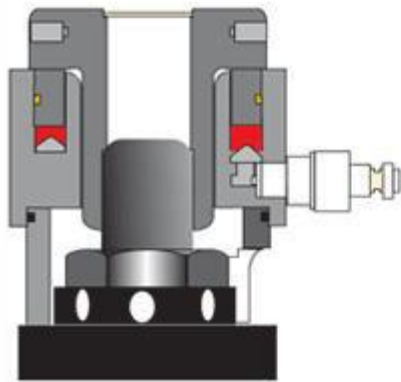
1,400 bar



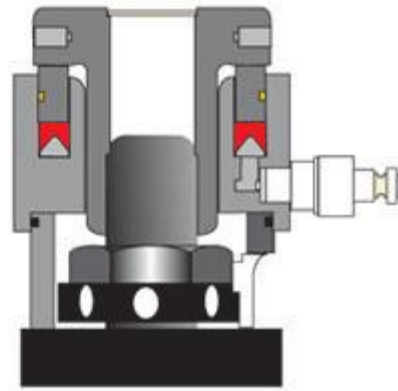
800 bar

APPLICATION: BOLT TENSIONING

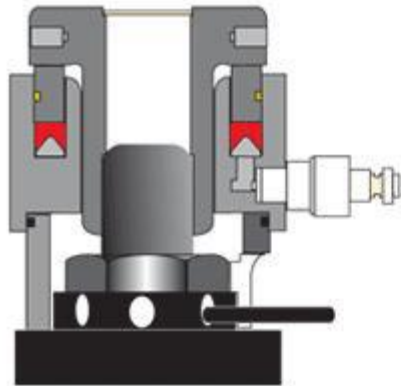
OUTPUT PRESSURE: 1,300 – 2,500 BAR



Step 1



Step 2



Step 3



Step 4



HYDRAULIC
TENSIONING NUTS

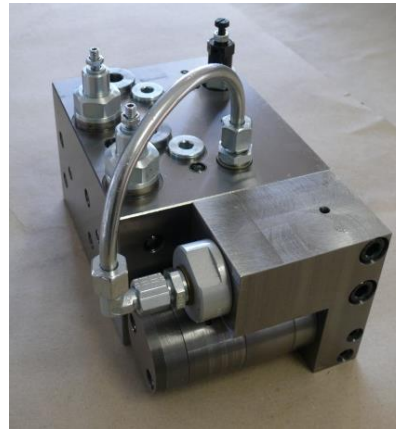


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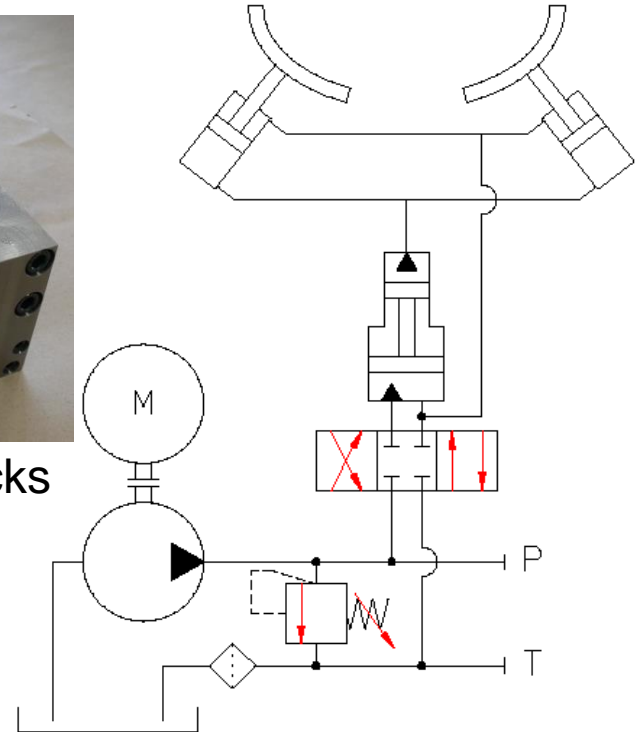
12

APPLICATION: HYDRAULIC ROUGHNECKS

OUTPUT PRESSURE: 500 – 700 BAR



Hydraulic Blocks



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APPLICATION: DEMOLITION TOOLS

OUTPUT PRESSURE: 500 – 2,800 BAR

Handheld Demolition
Tools 500 – 700 bar



Concrete Bursting 1,500 – 2,800 bar



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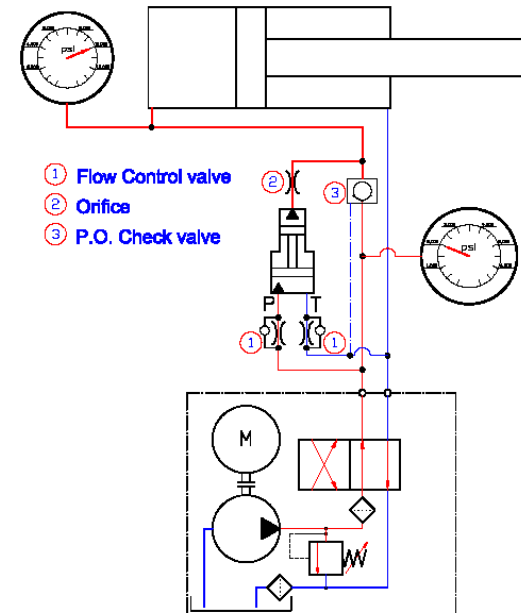
Excavator Tools 700 bar

APPLICATION: FILTER PRESSES

OUTPUT PRESSURE: 500 – 700 BAR



Bypass circuit for high flow applications:



APPLICATION: HYDRAULIC TOOLS

OUTPUT PRESSURE: 500 – 700 BAR

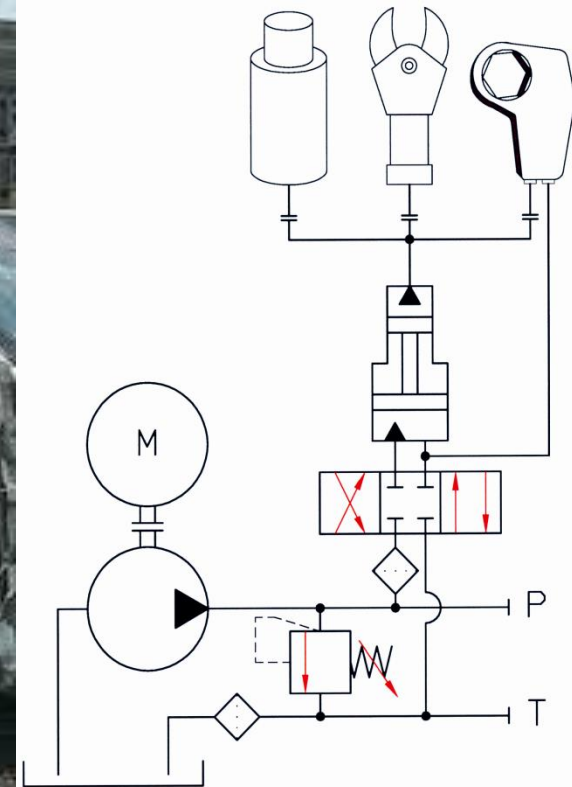
Cable Tools



Cutting Tools



ROV Tools



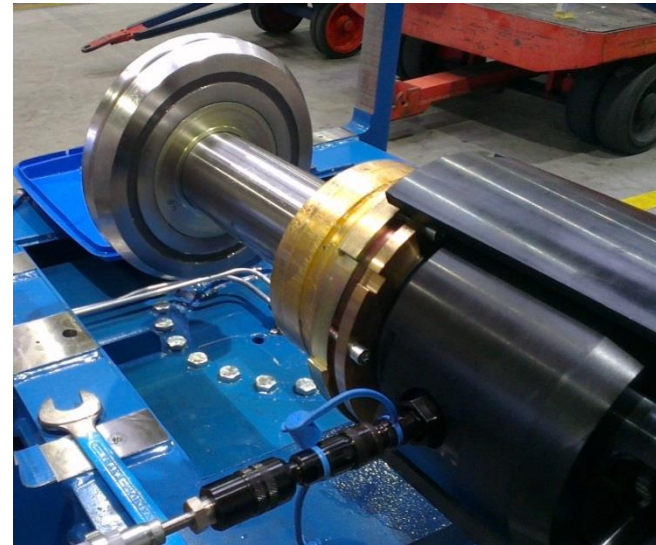
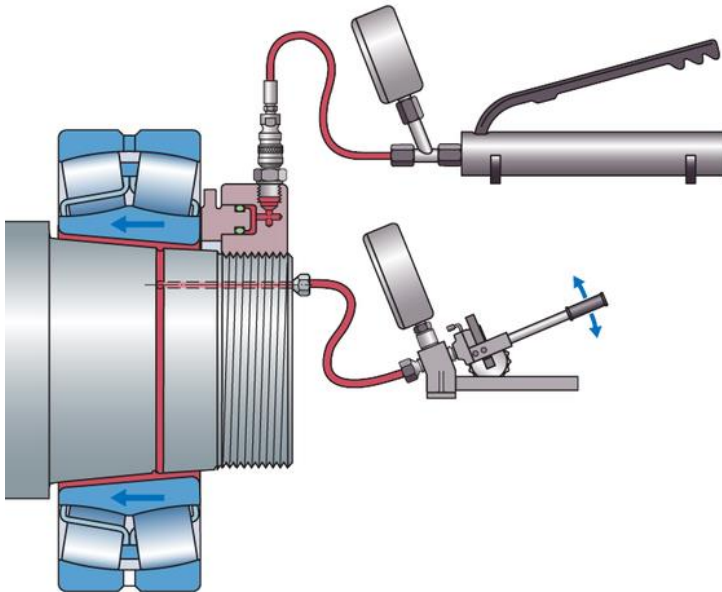
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Intensifier panels!

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APPLICATION: BEARING & WHEEL ASSEMBLY

OUTPUT PRESSURE: 2,500 – 4,000 BAR



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APPLICATION: HYDRAULIC TESTING

OUTPUT PRESSURE: 300 – 2,000 BAR

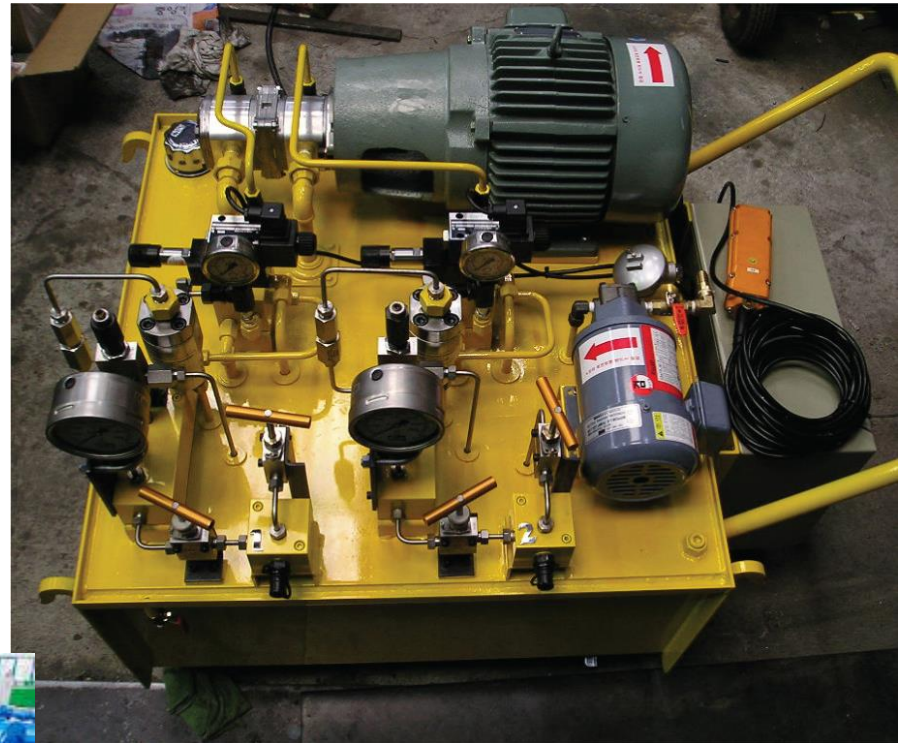
Landing gear testing
(A380 @12 mio. cycles)



Cylinder testing



High Pressure Testing



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SCANWILL INTENSIFIERS IN SHORT...

Characteristics

- High pressure precisely where needed
- High pressure by low pressure pump
- Low pressure in most places
- Low pressure supply to intensifier
- Intensifiers are compact components
- Intensifier fitted directly to cylinder
- Just add Scanwill intensifier
- Built-in bypass valve

Advantages

- Low operating pressure in the system
- Use existing installed pump
- Longer life of hydraulic components
- Use standard tubing, hoses & valves
- Easy to accommodate where needed
- No need for extra tubing or special parts
- Use existing equipment for the new task
- Full flow available at pump pressure

Benefits

- Energy savings for the total system
- No need of expensive hp components
- Cost savings by maintenance
- Less cost for the total system & higher safety
- Cost savings by installation
- Cost & space savings by installation
- Cost savings by installation
- Fast operation until high pressure is reached