

PORTABLE HYDRAULIC POWER SUPPLY

Electric Driven, P/N 98612-100

NSN 4920-01-491-0153



HYDRAULICS INTERNATIONAL, INC.

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Features

- Low profile and narrow structure provides better air transportability.
- Hydraulic circuit is designed as an integral manifold which eliminates excessive plumbing & external leakage of hydraulic fluid.
- By utilizing a sealed hydraulic reservoir the air and moisture entering the reservoir is eliminated.
- Heat exchanger system for the hydraulic system is designed for high ambient temperature.
- A highly efficient purification system removes moisture, particulate, & dissolved gases from aircraft, test stand, & external hydraulic fluid.
- Continuous cooling, filtering, moisture and particle removal from hydraulic fluid keeps hydraulic fluid clean and eliminates the need of changing hydraulic fluid.
- Sample ports are provided for monitoring the condition of the hydraulic fluid in the reservoir.
- External reservoir fill and discharge ports enables the operator to fill the hydraulic reservoir from an outside source, or to remove clean filtered hydraulic fluid from the reservoir.
- Back pressure regulator allows operation in both aircraft (closed loop) or test stand (open loop) reservoir operation.

Leading Particulars

ITEM	CHARACTERISTICS
Test medium	Hydraulic fluid, MIL-H-83282, MIL-H-5606, or as specified by customer when ordering
Capacity	55 GPM at 3000 PSI, 32 GPM at 5000 PSI, or 20 GPM at 6000 PSI
Operating Conditions	
Ambient temperature range	-40°F to +120°F
Altitude	Sea level to 6000 feet
Relative humidity	0% to 100%
Test stand position	Up to 8 1/2° from horizontal
Overall Physical Characteristics	
Size	Height: 53", width: 52" and length: 110"
Wet weight	4200 lb
Hydraulic reservoir	60 U.S. gallon (55 useable)
Road clearance	8 inches
Tow speed	20 mph max over improved loads
Steering angle	40°
Major Component	
Drive unit	100 HP, ODP Electric Motor
Main pump	Variable displacement piston pump, with remote volume and pressure compensator
Boost pump	Fixed displacement gear pump
Heat exchanger	Oil-to-air radiator type
Supply port	1" in tube size, AN type fitting
Return port	1 1/4" tube size, AN type fitting
Filtration	
Boost system filter	10-micron (nominal)
Supply system filter	3-micron (absolute)
Fill & purification system filter	3-micron (absolute)
Instrumentation	
Output pressure gauge	0-6000 PSI
Compound gauge	-30-0-30 PSI
(Purification/boost suction)	
Hydraulic temp gauge	-20°F to 200°F
Hourmeter	0 to 99999 hr
Automatic shutdown	Low boost pressure, high temp, low and high reservoir level, electrical input power out of phase
Purification system	
Contaminant removal	55 gallon of hydraulic fluid in 5 hrs
Water	From 1000 to less than 200 PPM
Chlorinated solvents	From 400 to less than 100 PPM
Air and gas	100% dissolved air removal, 98% (by volume) removal
Particulate	Cleanliness level equal to or better than NAS 1638 class 3



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