

Portable Hydraulic Test Stand, Dual System

Model MK-3A

Electric Motor Driven

NSN: 4920-00-528-8780 and 4920-00-045-7543



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Leading Particulars

Item	Characteristic
Overall Unit Capacity:	
Test Medium	Hydraulic fluid, MIL-H-5606, MIL-H-83282, Skydrol 500 A and B, or as specified by customer when ordering
Capacity:	
Single System	35 GPM at 3000 PSIG(60 HZ), 32 GPM at 3000 PSIG(50 HZ) 25 GPM at 5000 PSIG
Two System	70 GPM (35 GPM/system) at 3000 PSIG(60 HZ), 64 GPM at 3000 PSIG(50 HZ)
Operating Conditions:	
Ambient temperature range	-40°C to +51.7°C (-40°F to +125°F)
Altitude	Sea level to 6000 feet
Relative humidity	0% to 100% at operating temperature of 51.75°C (125°F)
Fluid temperature	To +77° ± 2°C (165 ± 5°F)
Operation positions:	
Up to 8½° from horizontal	
Tow speed:	
20 MPH max. over improved roads	
Cramping Angle:	
40°	
Road clearance:	
8 inches	
Overall physical characteristics:	
Height: 72"; Length: 116"; Width: 76"; Gross: 6300 pounds	
Reservoir capacity:	
60 U.S. gallons	
Test System Components:	
High-pressure pump	Variable displacement, pressure compensator controlled, axial-piston type; 35 GPM at 3000 PSIG with integral boost pump 40 PGM at 300 PSIG and variable volume
Filtration:	
Boost system filter	10-micron, two element
High-pressure system filter	3-micron (absolute)
Fill and deaeration system filter	10-micron disposable element
Output pressure gauge	0 to 6000 PSIG
Boost system press gauge	0 to 30 in. of HG/0 to 300 PSIG range
Flowmeter	0 to 35 GPM range
Temperature gage	0° to +200°F range
Preset components:	
Thermal Relief Valve	200 PSIG (adjustable)
Fill Relief Valve	As required by aircraft system
Boost System Check Relief	140 ± 5 PSIG
Boost System Pressure Switch	Closes at 25 PSIG
Differential Hi-Pressure	100 PSID ± 10 PSID
Differential Low-Pressure	35 PSID ± 2 PSID
Fluid Heat Exchanger:	
Oil-to-air type, selected to maintain fluid temperature below +60°C (+140°F) at 30 GPM at 750 PSIG at an ambient temperature of +37.8°C (+100°F)	
Pressure port	1 in. tube size, AN-type fittings
Return port	1½ in. tube size, AN-type fittings
Fill and bleed system components:	
Pump	5 GPM at 300 PSIG, gear type
Pump Motor	1 HP, 3600 RPM
Electrical System	220 VAC, 380/460 VAC, 3 Phase 50/60 Hz
Drive Unit:	
Electrical Motor	2/75 HP at 1800/1500 RPM
Trailer and Cabinet:	
Construction	Welded Steel
Wheels	Four pneumatic tires, 10-ply, 6 x 9, split wheel
Tire pressure	100 ± 10 PSI
Springs	Leaf type
Brake	Hand operated, parking type (rear wheels)
Steering	Knuckle type with tow bar
Cabinet	Metal enclosure with access panels, hinged doors, storage compartments, and weather resistant properties



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