

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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