

**NASA Armstrong (Dryden) FLL Hydraulic Actuator Specifications**

**3.25 Inch Bore 12 Inch Stroke**

**7/15/2014**

**Quantity 6 EACH**

Miller Fluid Power Hydraulic Actuator

HV2 - Series, Position Sensing Cylinder

84 Mount, Fixed Clevis (NFPA MP1)

3.25" cylinder bore

12" usable stroke

1-3/4" rod diameter

Bolted bushing, non-cushioned

1"-14 UNS-3A male rod end, "A" = 1.625"

#8 SAE (3/4-16) ports

Head & Cap @ position #4

Bronze low friction gland filled PTFE KR type rod seals w/nitrile energizers & wiper (class 1 seals)

Low friction piston with bi-directional seal & wear bands

Fluid Type: MIL-H-83282C (red oil)

3,000 psi envelope rating (operating pressure)

Mounting Pin 1.00 dia. (inches, +0/-.003), included

Mounting Style: Fixed Clevis (Equiv. to Miller Model 84-B)

Certified Drawing provided, reviewed/approved by purchaser before fabrication

Quick Disconnects installed per drawing prior to shipment

Quick Disconnect Type: Aeroquip 5608-8-10S head, 5610-8-10S cap

Pressure Test Report provided, 10 cycles at operating pressure

LRT transducer, 3-pin EPC @ position # 3 (90-degrees from port location)

LRT Resistance Test Report provided for full extend, full retract

LRT Electrical Cable, with attached mating connector, other end blank (pig tail), 30' length

Theoretical Compression force @ 3000psi= 24888 pounds

Theoretical Tension force@3000psi = 17673 pounds

Reference "Miller/Parker HV2 Series Piston Rod—Stroke Selection Chart" to determine no stop tube required.

**NASA Armstrong (Dryden) FLL Hydraulic Actuator Specifications**  
**2.5 Inch Bore 18 Inch Stroke**  
**7/15/2014**  
**Quantity 6 EACH**

Miller Fluid Power Hydraulic Actuator

HV2 - Series, Position Sensing Cylinder

84 Mount, Fixed Clevis (NFPA MP1)

2.5" cylinder bore

18" usable stroke

1-3/4" rod diameter

Bolted bushing, non-cushioned

1"-14 UNS-3A male rod end, "A" = 1.625"

#8 SAE (3/4-16) ports

Head & Cap @ position #4

Bronze low friction gland filled PTFE KR type rod seals w/nitrile energizers & wiper (class 1 seals)

Low friction piston with bi-directional seal & wear bands

Fluid Type: MIL-H-83282C (red oil)

3,000 psi envelope rating (operating pressure)

Mounting Pin 0.75 dia. (inches, +0/-.003), included

Mounting Style: Fixed Clevis (Equiv. to Miller Model 84-B)

Certified Drawing provided, reviewed/approved by purchaser before fabrication

Quick Disconnects installed per drawing prior to shipment

Quick Disconnect Type: Aeroquip 5608-8-10S head, 5610-8-10S cap

Pressure Test Report provided, 10 cycles at operating pressure

LRT transducer, 3-pin EPC @ position # 3 (90-degrees from port location)

LRT Resistance Test Report provided for full extend, full retract

LRT Electrical Cable, with attached mating connector, other end blank (pig tail), 30' length

Theoretical Compression force @ 3000psi= 14727 pounds

Theoretical Tension force@3000psi = 7512 pounds

Reference "Miller/Parker HV2 Series Piston Rod—Stroke Selection Chart" to determine no stop tube required.