



Morehouse
THE FORCE IN CALIBRATION SINCE 1925

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OPERATION AND INSTRUCTION MANUAL

AUXILIARY HYDRAULIC SCREW PUMP



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Table of Contents

1. General Specification2

2. Installation Instructions.....2

3. Operating Instructions.....3

4. Parts Lists & Drawings

- Morehouse Screw Pump with Safety Check Valve (Drawing 075-806000).....3
- Full Unit Assembly for Morehouse Hydraulic Screw Pump (Drawing 806000-02)& Part-List.....5
- Full Unit Outline for Morehouse Hydraulic Screw Pump (Drawing 806000-01).....6



General Specification

- 1- The Morehouse screw pump (P/N: 66-806) is setup to be used with the Morehouse hydraulic jack along with the existing hand pump or hydraulic power control. The screw pump can provide up to 0.15 inch of stroke on the 100,000-pound hydraulic jack. The screw pump is intended to maintain the load during testing and calibration and will allow the generation of decreasing loads.
- 2- The Morehouse screw pump (P/N: 66-806) is can also be used on the 804000 and 654000 Aircraft Scale Calibrator (Press) along with the existing hand pump. The screw pump can provide up to 1/4 inch of stroke on the 60,000-pound force jack. The screw pump is intended to maintain the load during testing and calibration of aircraft scales.

Installation Instructions

Install the screw pump on a Morehouse Universal Calibrating Machine

- 1- Remove the hose fitting from the jack and install the compression fitting .
- 2- Hold the screw pump in position and mark the mounting holes to be drilled using the steel line to locate the position.
- 3- Drill two 5/16" holes in the frame, and tap them to 3/8"-16.
- 4- Mount the pump and connect the steel line, it may be necessary to bend the line to align the fitting . Connect the hand pump to the quick connect fitting on needle valve.
- 5- The system can be bled, if necessary, by operating the hand pump to extend the jack, and then unscrewing the compression fitting on the side of the pump .

Install the screw pump on Morehouse 804000 or 654000 Aircraft Scale Calibrator

- 1- Remove the jack from the frame.
- 2- Remove the hose fitting from the jack, and install the 90-degree compression fitting .
- 3- Drill two clearance holes in the frame located 7.5 inches from the right end of the beam, 3.0 and 6.0 inches down from the top.
- 4- Mount the pump, and connect the steel line. It may be necessary to bend the line to align the fitting . Connect the hand pump to the quick connect fitting on needle valve.
- 5- The system can be bled, if necessary, by operating the hand pump to extend the jack, and then unscrewing the compression fitting on the pump .

Operating Instructions

1- The Morehouse Auxiliary Screw Pump may be ready to use as received. If the Auxiliary screw pump is not installed on a Morehouse Universal Calibrating Machine or Aircraft Scale Calibrator, please see installation instructions above first

2- To operate the Morehouse Auxiliary Screw Pump make sure the shut-off valve is closed. The Morehouse Auxiliary Screw Pump should be used in combination with a Morehouse Hydraulic Power control or Morehouse Hand Pump. Operation is as simple as turning clockwise to increase the force and counter clockwise to decrease the force.

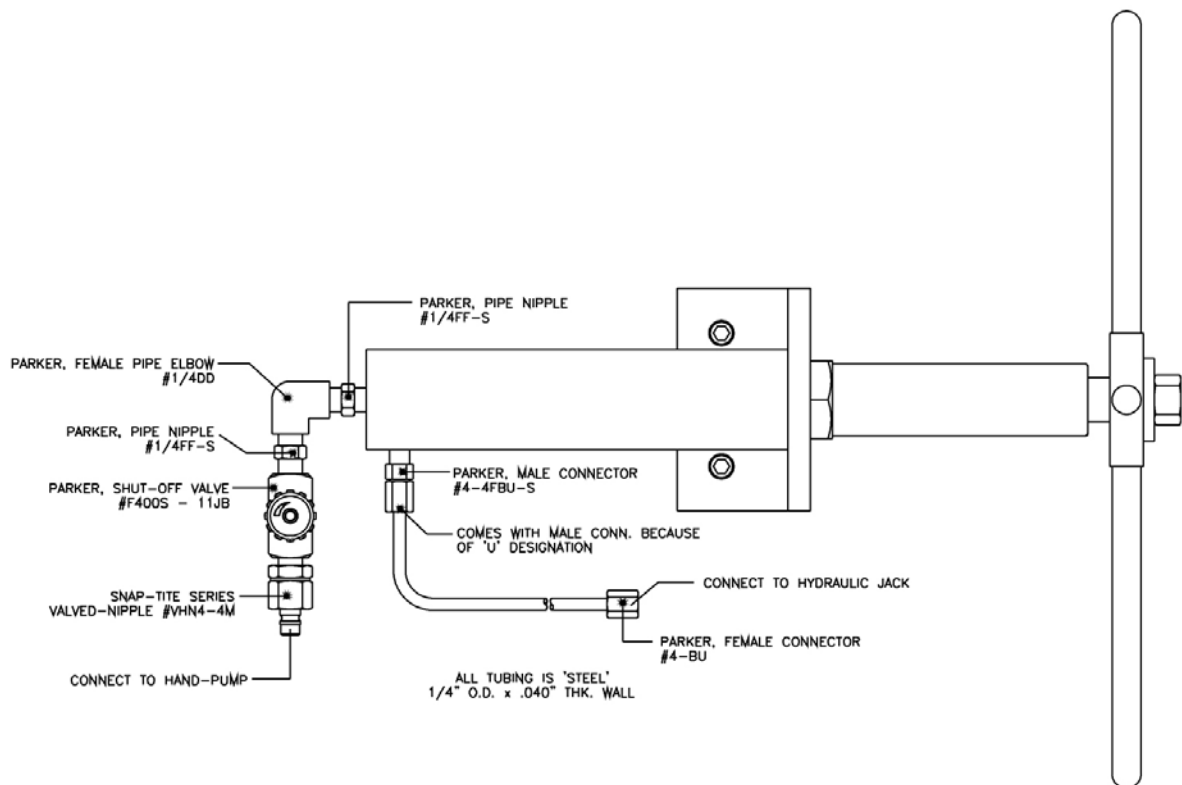


Figure 1: Morehouse Screw Pump with Safety Check Valve (Drawing 075-806000)

Screw Pump shaft will extend 5 3/8" from minimum position (as shown)

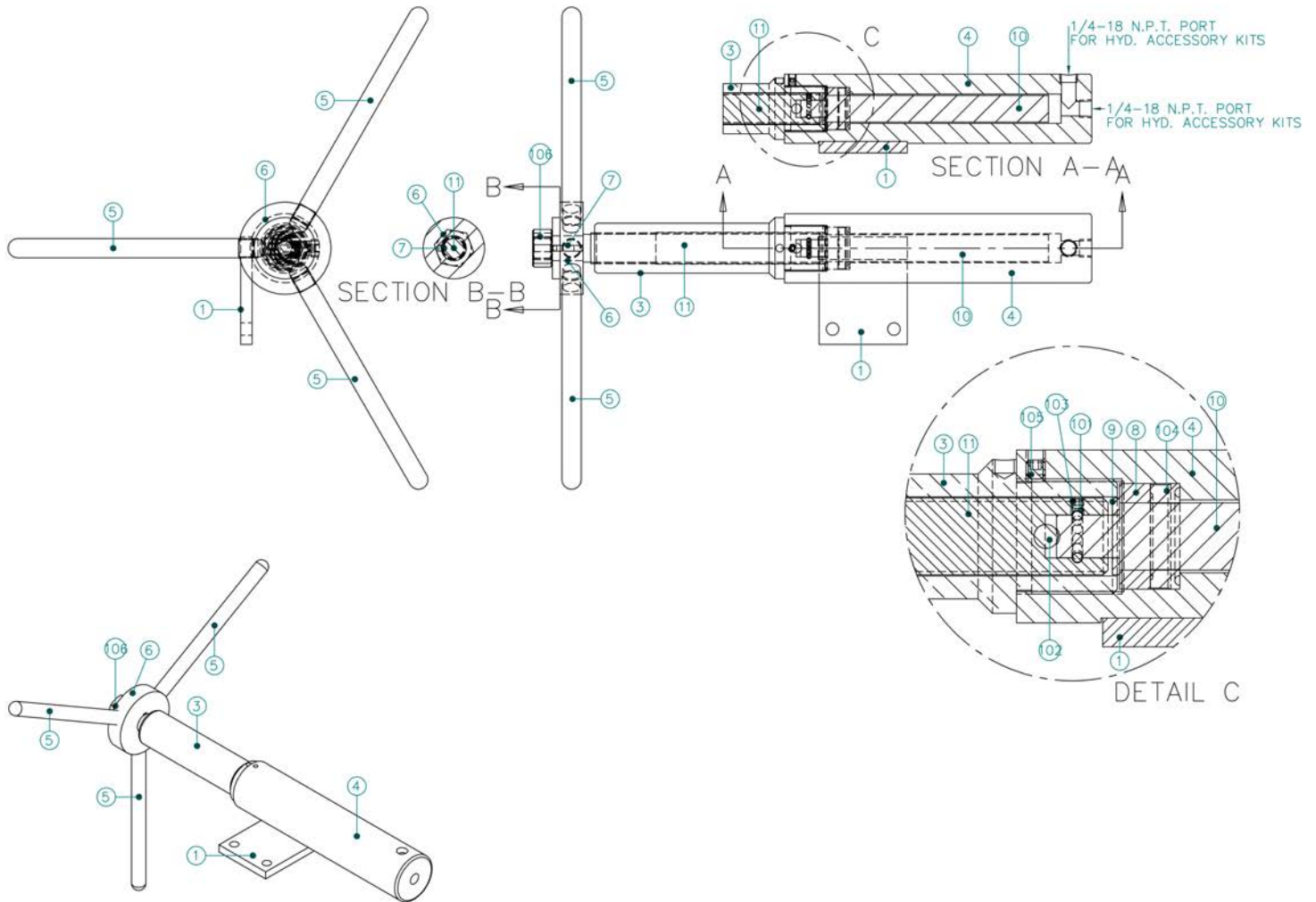


Figure 2: Full Unit Assembly for Morehouse Hydraulic Screw Pump (Drawing 806000-02)



Parts List for Morehouse Hydraulic Screw Pump			
Item	Part No.	Description	Quantity
1	806001	Mounting Bracket	1
2	OBSOLETE	(No Longer Used)	N/A
3	806003	Gland Nut	1
4	806004	Screw Pump Body	1
5	806005	Handle Arm	3
6	806006	Handle Hub	1
7	806007	Key Lock Pin	1
8	806008	Back-up Washer	1
9	806009	Stop Washer	1
10	806010	Smooth Shaft (1 of 2)	1
11	806011	Threaded Shaft (2 of 2)	1
101	806101	1/8" DIA. Guide Ball	13
102	806102	5/8" DIA. Load Ball	1
103	806103	Sealing Set-Screw	1
104	806104	Deep Loaded Lip Seal	1
105	806105	Locking Set-Screw	1
106	806106	Locking Hex Nut	1

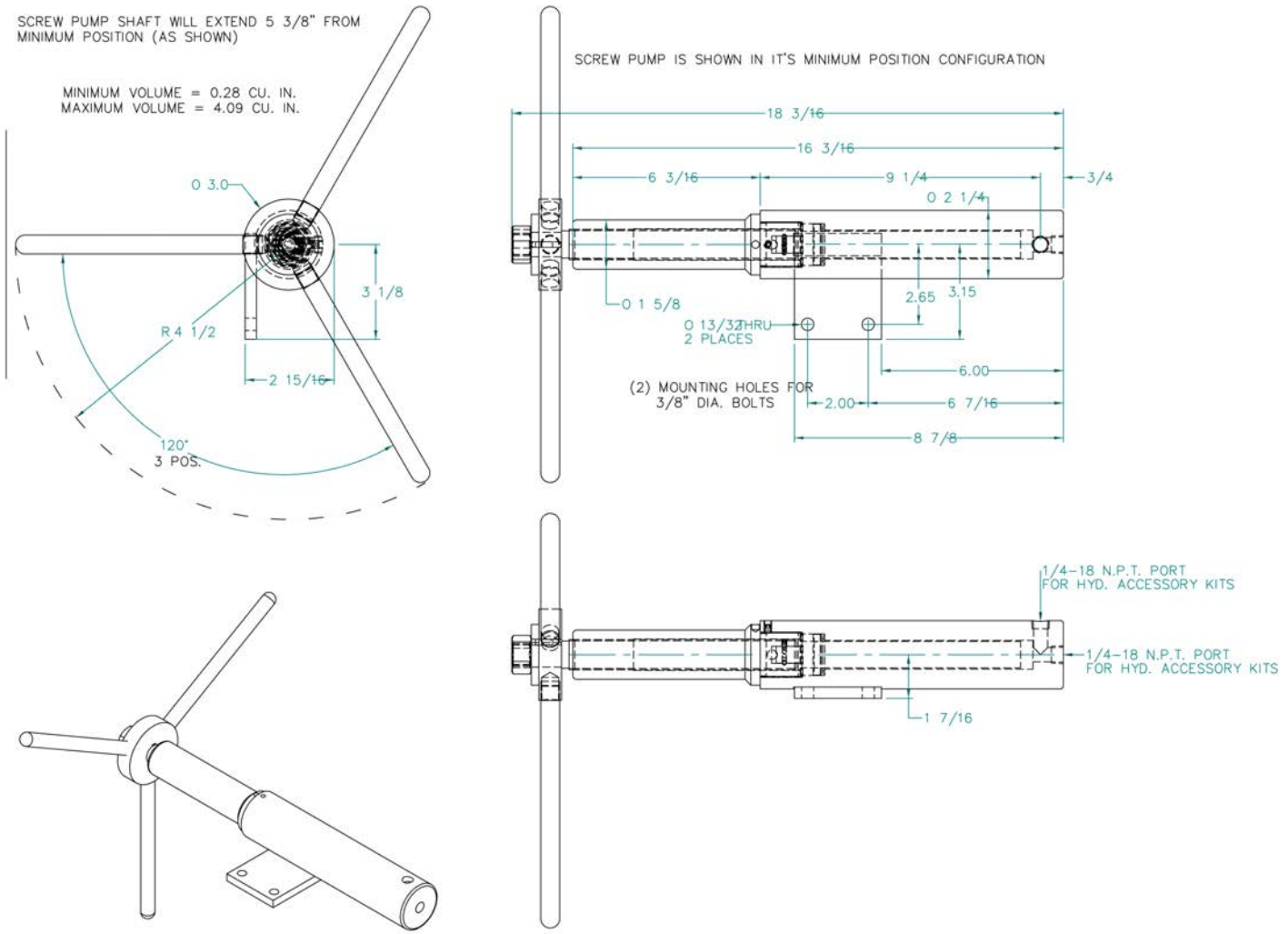


Figure 3: Full Unit Outline for Morehouse Hydraulic Screw Pump (Drawing 806000-01)