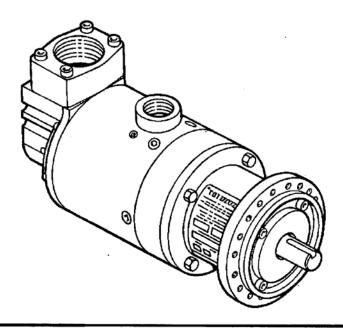
Installation Information for Model T30-M Air Motor

Part Numbers: T30X-60016-00R-1 &

T30X-60016-00L-1

Effective for S/N: 9604-001 to Present



IMPORTANT NOTE:

The purpose of this manual is to provide preliminary information for the installation and operation of the Model T30-M air motor manufactured by TDI. If there are questions not answered by this manual, please contact your local TDI Turbostart distributor or dealer for assistance.



Issued April 15, 2006

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TDI Model: T30-M P/N: T30X-60016-00X-1 GENERAL SPECIFICATIONS

Type: Pneumatic Impulse two stage turbine

Media: Natural gas or compressed air

Temperature: Media -40°F to +175°F (-40°C to +79°C)

Ambient -29°F to +175°F (-34°C to +79°C)

Storage -40° F to $+200^{\circ}$ F (-40° C to $+93^{\circ}$ C)

Pressure: Inlet Max. 150 psig (1034 kPa)
Proof: 600 psig (4137 kPa)

Burst: 1500 psig (10343 kPa)

Exhaust Max:

Continuous 15 psig (103 kPa) Intermittent 25 psig (172 kPa)

Duty Cycle: Intermittent to 4 hours continuous

Speed: Continuous 500-3000 rpm

Intermittent See motor Curves

Gear Ratio: 11.4:1

Rotation: CCW (LH) viewed from shaft end.

Leakage: External, Zero under pressure limits.

Shaft Seal: Lip Type

Bearings: Ball and Needle grease packed for Life of unit.

Inlet Size: 1" NPT (See Motor Envelope drawing page 3)

Exhaust Size: 1 1/2" NPT Threaded, 90° Elbow per attached Dwg.

(See Motor Envelope drawing page 3)

Materials: See T30-M IPB with Material callouts. (See page 5&6)

Finish: Painted TDI - Blue

Specifcations: Wetted materials shall be suitable for exposure to sour gas

(H₂S) per NACE MR-01-75, lastest revision.

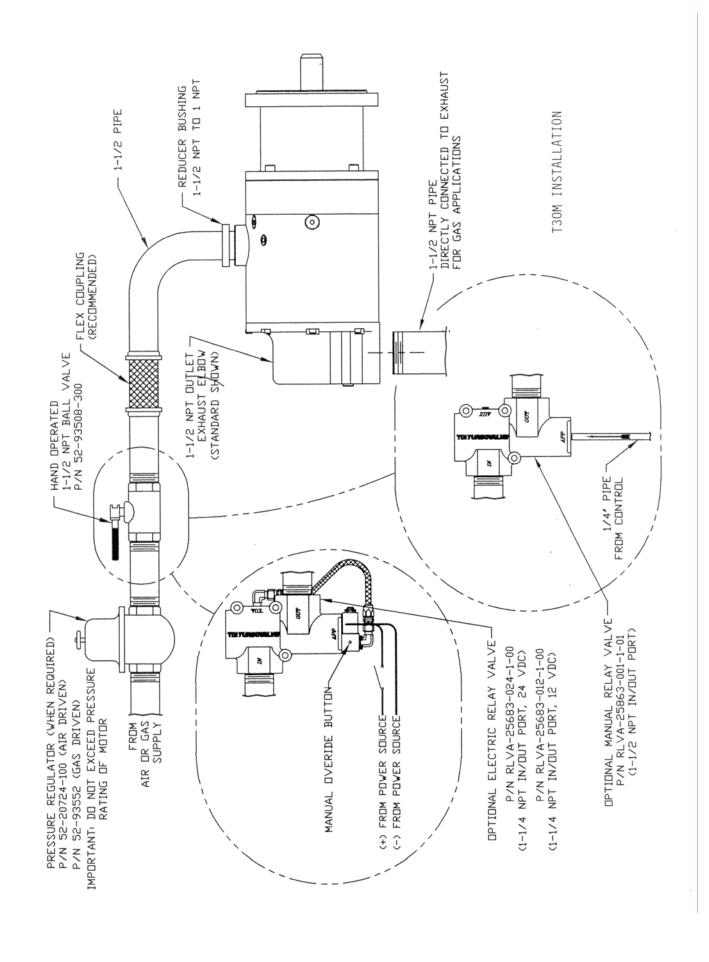
Identification: Direction of rotation shall be permanently identified on the

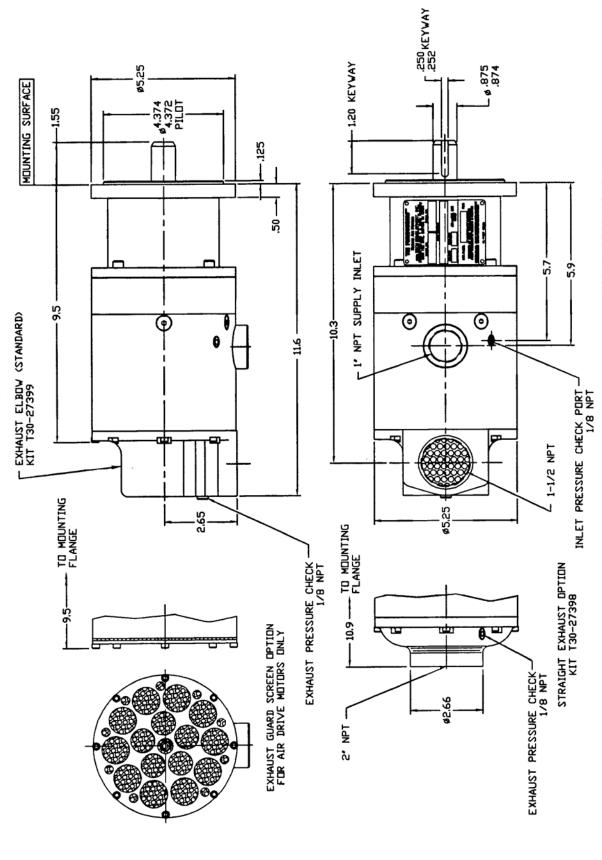
nameplate.

Performance: Curves attached for the 3 & 6 nozzle units on air and

methane gas. See pages 7-10

Weight: 24.5 lbs.





T30M MOTOR ASSEMBLY