

 The gear train and bearings are factory grease-packed for the life of the starter, so it requires no maintenance. There are no rubbing parts, so there is no external lubrication required. Lubricator problems, installation expense, system maintenance, and the messy and hazardous oil film around the starter exhaust . . . all are eliminated ENVIRONMENTALLY SAFE

 The TURBOTWIN T30-P starter fits a wide range of engine applications, up to 20 liters. One basic design can be used for a broad range of engine types. APPLICATION VERSATILITY

 The TURBOTWIN T30-P is ideal for remote or "black" start applications. The unit requires only simple control lines for its operation. SIMPLICITY

 Piping consists of only a single supply line with a ball valve or TDI relay valve in the line. See the typical manual or electric installation diagrams.

EASE of INSTALLATION

 The efficient twin-turbine motor design increases the torque applied to the ring gear, using less air per start than competitive designs. Refer to the performance curves for 6 nozzle models. The T30 Series includes models with 3, 6, and 12 nozzles. LOWER AIR CONSUMPTION

The T30-P starter can be used over a wide range of drive pressures from 30 psig (2 BAR) to 150 psig (10 BAR). It is suitable for operation on either compressed air or natural gas. The lightweight, 29 Lb, unit is capable of delivering over 21 HP (15.65 kW) of cranking power at only 120 psig (8 BAR).

BROAD RANGE OF OPERATION

 TURBOTWIN T30 Series starters are constructed from durable, high quality materials. Major components are made from high strength aluminum or steel alloy. HEAVY DUTY CONSTRUCTION

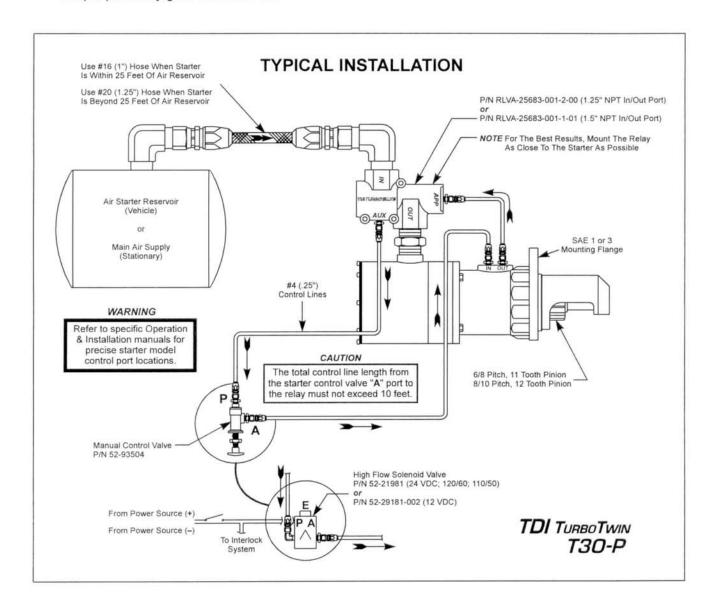
The durable turbine motor design in the TURBOTWIN T30 Series has no rubbing parts. It's tolerant of solid and liquid contamination in the supply gas with nearly no adverse affects. The motor is well adapted to running on "sour" natural gas.

CONTAMINATED SUPPLY GAS

6800 Poe Ave. • Dayton, OH 45413-0557 Tel: 937 / 898 - 9600 Fax: 937 / 898 - 8431 TECH DEVELOPMENT INC. introduced the first turbine technology for starting industrial engines in 1979. The TURBOTWIN T30 Series features an innovative and more reliable turbine motor than anything on the market today. DEVELOPMENT HISTORY

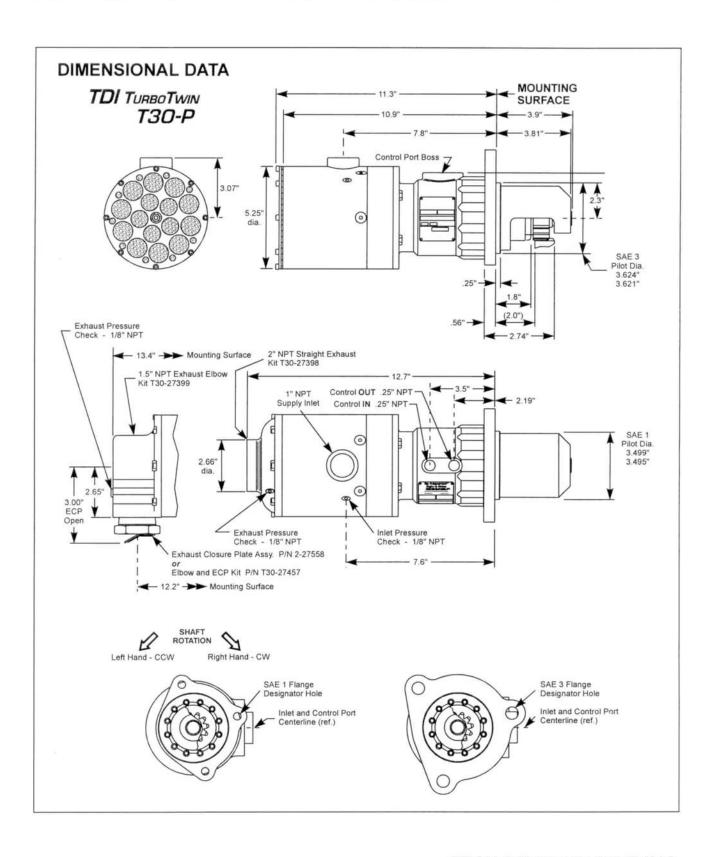
The TURBOTWIN T30 Series is the result of TDI's continuing turbine starter design innovations. Based on our successful TURBOTWIN T100 Series starters, the TURBOTWIN T30 Series starters should exceed customer requirements in every installation.

 The high horsepower of a turbine air motor combined with the planetary gear speed reducer results in a very efficient and compact unit. The TURBOTWIN T30 Series models are powered by a pair of axial flow turbines coupled to a simple planetary gear reduction set. DESCRIPTION of OPERATION



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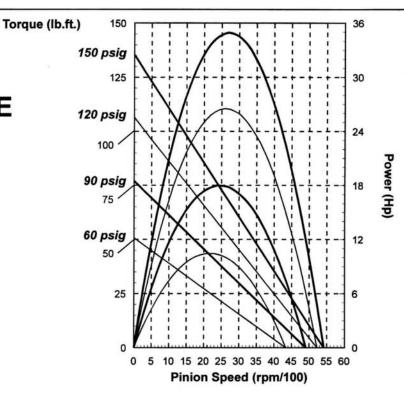


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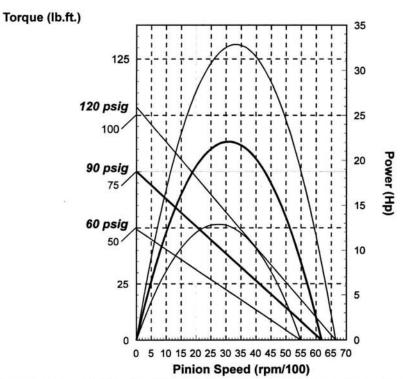
TDI TURBOTWIN T30-P **PERFORMANCE CURVES**

Model T306-P 6 NOZZLES 70° F, Compressed Air 9.0:1 Ratio

INLET Pressure	FLOW (Scfm)
150 PSIG	600
120 PSIG	478
90 PSIG	365
60 PSIG	255



Model T306-P 70° F, Methane Gas



9.0:1 Ratio FLOW (Scfm) INLET Pressure 120 PSIG 600 90 PSIG 465 60 PSIG 330

6 NOZZLES

T30 Series: Flexibility To Meet Any Requirement

T30-I Inertia Engagement

T30-P Pre-Engaged

T30-Y Pre-Engaged/Overhung

T30-M Industrial Air/Gas Drive Motor

from TECH DEVELOPMENT INC.

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