

# Series 6100

## Gas/Pneumatic Driven Injection Pump

### Specifications

The TXT 6100 Series Pump line consists of a series of basic pump options all developed from a modular power unit. All units are pneumatically driven positive displacement, single or double acting, reciprocating pumps.

The basic pump is designed for use with three fluid ends, a 1-1/4" and 2-3/4" diameter plunger and a 4" diameter piston. The fluid ends are interchangeable with the modular power cylinder and can be assembled as single ended units or double ended units in all combinations of sizes. All fluid ends are designed to withstand maximum output force of the power cylinder.

Due to the balanced valving of the power cylinder it is, in theory, possible to operate the pump against a back pressure equal to the inlet power gas pressure; however, a differential in these two pressures must be maintained for the pump to stroke. (See Power to Fluid Ratio below) When the supply gas is piped off to other areas, the pilot valves may also be connected to the pump exhaust manifold system. All fluid ends are designed with removable cartridge type ball check valves. These valves may be replaced without disconnecting the suction and discharge piping.

### Operational Data

	1-1/4"	2-3/4"	4"
<b>Pump Model Number</b>	6111	6121	6141
<b>Fluid Discharge Pressure Maximum</b>	9000PSIG	1800PSIG	900PSIG
<b>Fluid Discharge Volumes up to Maximum Pressure</b>	see chart on back	see chart on back	see chart on back
<b>Operating Speed Maximum</b>	see chart on back	see chart on back	see chart on back
<b>Minimum</b>	see chart on back	see chart on back	see chart on back
<b>Power/Fluid Pressure Ratio</b> (Inlet Gas Pressure - Exhaust Back Pressure) X Power to Fluid Ratio = Maximum Fluid Discharge Pressure at Stall	40:1	8:1	4:1
<b>Pneumatic Pressure Required to Operate Pump</b>	see chart on back	see chart on back	see chart on back
<b>Maximum Temperature</b>	200°F with Buna-N trim, all models 400°F with Viton trim, all models		
<b>Minimum NPSHR</b>	8ft. of water, all models		



