

# 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.

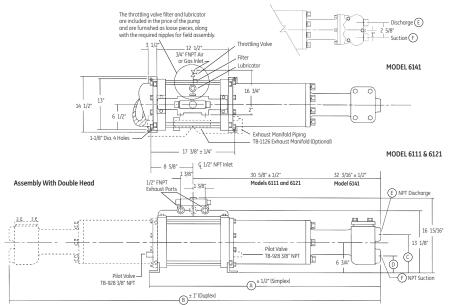
Due to the balanced valving of the power cylinder it is, in theory, possible to operate the pump against a back pressure equal to the inlet power gas pressure; however, a differential in these two pressures must be maintained for the pump to stroke. (See Power to Fluid Ratio below) When the supply gas 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"	
Pump Model Number	6111	6121	6141	
Fluid Discharge Pressure Maximum	9000PSIG	1800PSIG	900PSIG	
Fluid Discharge Volumes up to Maximum Pressure	see chart on back	see chart on back	see chart on back	
Operating Speed Maximum	see chart on back	see chart on back	see chart on back	
Minimum	see chart on back	see chart on back	see chart on back	
Power/Fluid Pressure Ratio  (Inlet Gas Pressure - Exhaust Back Pressure) X Power to Fluid Ratio =  Maximum Fluid Discharge Pressure at Stall	40:1	8:1	4:1	
Pneumatic Pressure Required to Operate Pump	see chart on back	see chart on back	see chart on back	
Maximum Temperature	200°F with Buna-N trim, all models 400°F with Viton trim, all models			
Minimum NPSHR	8ft. of water, all models			



#### **Dimensional Data**

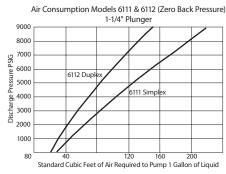


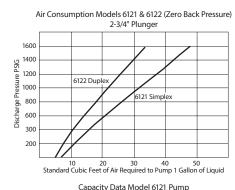
#### Weights (pounds) & Dimensions (inches)

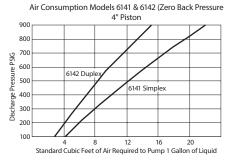
TB-928 Pilot Valve (Two Required)									
Model #	A	В	С	D	E	F	WT.		
6111	40-1/4		8-5/8	4-11/16	3/4	3/4	260		
6112		61-1/4	8-5/8	4-11/16	3/4	3/4	340		
6121	40-1/4		9-5/16	4-1/4	1	1	268		
6122		61-1/4	9-5/16	4-1/4	1	1	362		
6141	42-1/2		9-23/32	3-5/8	2	2	300		
6142		65-5/8	9-23/32	3-5/8	2	2	428		

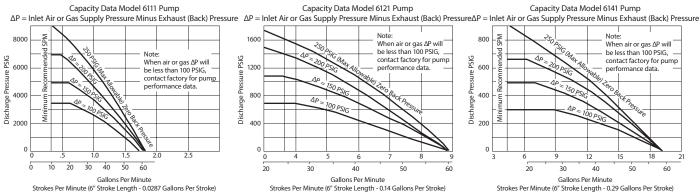
<sup>\*</sup> Recommended Spare Parts

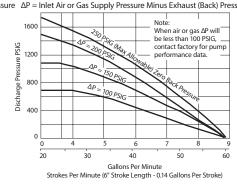
#### Performance Data

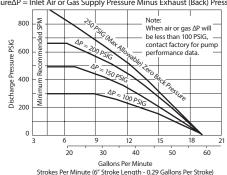












Capacity Data Model 6141 Pump

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