

# Series 5000

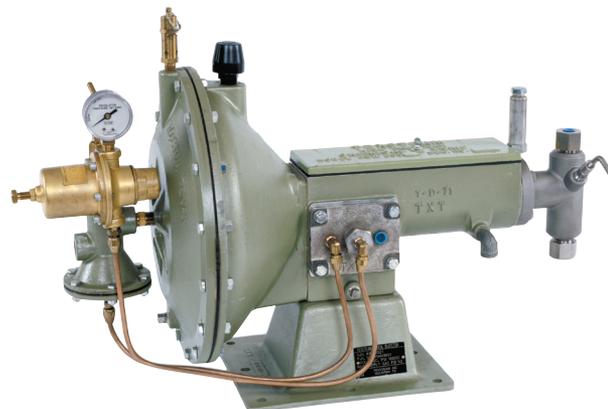
## Gas/Pneumatic Driven Injection Pump

### Description

Texsteam Series 5000 chemical injectors are positive displacement units powered by an integral gas/air motor. These pumps fill the requirements of a broad range of applications because of their ability to achieve high discharge pressures (up to 12,000 psig) and wide volume ranges. A horizontal plunger and vertical check valve arrangement provide high operating efficiency. The standard pump head has a Ductile Iron body and stainless steel trim. Stainless steel heads are available for high corrosive applications. A built-in priming valve facilitates pump head priming, enables the operator to easily check pump operation, and offers a sample-catching device. The pump frame and body castings are high-strength aluminum. The operating mechanism strokes in oil and is gasket sealed to protect against dust and other atmospheric influences. Oil-less models are also available. A standard equipment safety valve offers protection against accidental overpressure of the main diaphragm. The adjustable packing is equipped with lantern ring and a grease jack (except on 1 1/4" head) for lubricating the plunger and packing to provide long life. Product is in compliance with EU Requirements CE.

### Applications

- Introducing detergents in air-gas drilling operations
- Blending foaming agents in water laden gas wells
- High pressure addition of fluid compounds in blending and chemical processing



- Introduction of de-salting agents, de-emulsifiers, inhibitors and flocculants in crude oil and gas steams
- High and low pressure lubrication systems
- Methanol and alcohol injection in gas systems to prevent freezing
- General high pressure injection applications
- Fluid blending of extreme pressures within varied, controlled processes
- Hydrostatic testing
- Glycol circulation
- Water treatment

### Performance Data

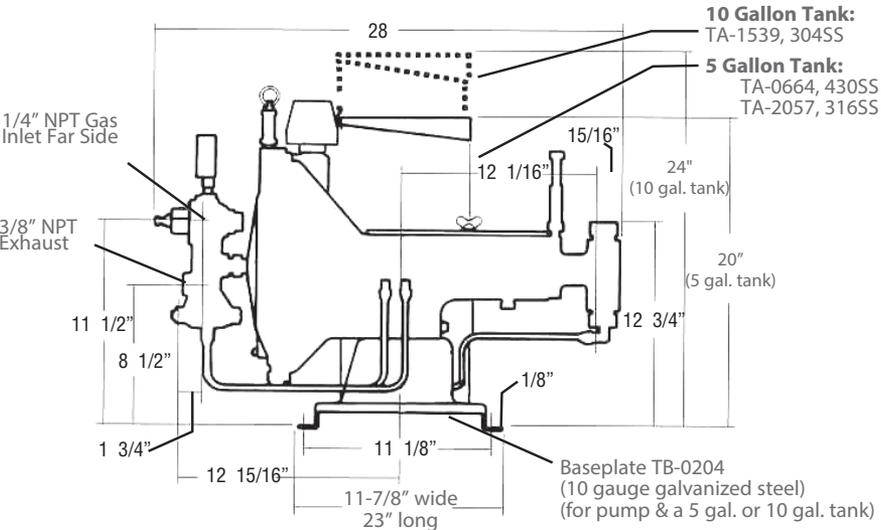
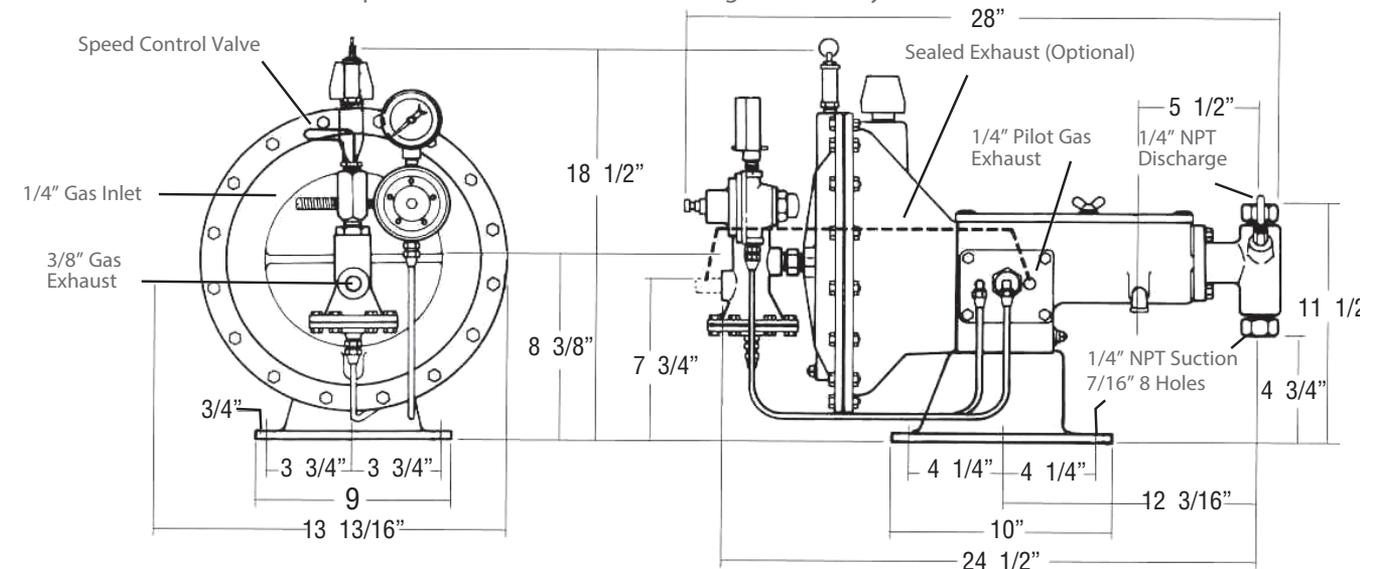
Model #	Plunger Size	Operating Ratio Gas*/Fluid	Maximum Pressure Pressure (PSIG)		Maximum Volume			
			Hard Packing	Soft Packing	Intermittent		Continuous	
					GPH	GPD	GPH	GPD
5001	1/4"	1000/1	12,000	3000	0.83	20	0.67	16
5003	3/8"	497/1	12,000	3000	2.33	56	1.79	43
5005	1/2"	264/1	10,000	3000	4.38	105	3.54	85
5006	3/4"	115/1	5,000	3000	7.42	190	6.67	160
5007	1"	66/1	N/A	3000	16.66	400	13.33	320
5008	1-1/4"	42/1	N/A	2000	26.04	625	20.83	500

Stroke Length - Long: 1 1/4" ; Short: 1/2"  
 Hard Packing Available in Buna or Viton only,  
 Depending on model

\*Maximum Power Gas Pressure: 50 PSI  
 Specify a TB-0040 & TA-0129 inlet regulator and gauge  
 when the inlet air/gas pressure is over 50 psig.

# Dimensions

Do not use for construction. Request certified dimension drawing from factory if needed.



**NOTICE**  
 This pump is oil-less and does not need to be filled with oil. If desired, fill with three quarts S.A.E. 30W non-detergent lubricating oil before starting.

(Standard Cubic Feet of Gas Required to Pump One Gallon)

## Gas consumption chart

For inlet regulator sizing, double the requirement indicated.

Injection Press in PSI	50	100	150	200	250	300	400	500	600	700	800	900	1000	1500	2000	3000	3500	4000	5000	6000	7000	8000	9000	10000
1/4" Piston Long Stroke 5001	280	281.2	282.4	283.6	284.8	286	289	292	294.6	297.2	300	303	306	318	330	356	368	380	404	428	452	476	500	522
1/4" Piston Short Stroke	700	703	706	707	709	712	720	724	731	737	741	748	756	779	802	854	872	897	937	984	1017	1057	1090	1122
3/8" Piston Long Stroke 5003	140	140.6	141.2	141.8	142.4	143	144.5	146	147.3	148.8	150	151.5	153	159	165	178	184	190	202	214	226	238	250	262
3/8" Piston Short Stroke	355	355.6	356.2	356.8	357.4	358	359.5	361	362.3	363.6	365	366.5	368	374	380	393	399	405	417	429	441	453	465	477
1/2" Piston Long Stroke 5005	80.6	81.2	81.8	82.4	83	83.6	84.8	86	87.2	88.4	89.6	90.8	92	98	104	116	122	128	140	152	164	176	188	200
1/2" Piston Short Stroke	200.6	201.1	201.8	202.4	203	203.6	204.8	206	207	208.4	209.6	210.8	212	218	224	236	242	248	260	272	284	296	308	320
3/4" Piston Long Stroke 5006	36	37	38	39	40	41	43	45	47.3	49.4	51.3	52.8	55.6	66	76.2	97	107	114	121					
3/4" Piston Short Stroke	89	91	92	94	95	96	99	101	105	109	111	113	117	132	145	172	183	190	191					
1" Piston Long Stroke 5007	20.6	21.2	21.8	22.4	23	23.6	24.8	26	27.2	28.4	29.6	30.8	32	38	44	56	62							
1" Piston Short Stroke	50.6	51.2	51.8	52.4	53	53.6	54.8	56	57.2	58.4	59.6	60.8	62	68	74	86								
1 1/4" Piston Long Stroke 5008	13.6	14.2	14.8	15.4	16	16.6	17.8	19	20.2	21.4	22.6	23.8	25	31	37	49								
1 1/4" Piston Short Stroke	32.6	33.2	33.8	34.4	35	35.6	36.8	38	39.2	40.4	41.6	42.8	44	50	56									

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