



# TDE (GD-180T) CONTINUOUS DUTY PLUNGER PUMP

## SPECIFICATIONS:

- Maximum BHP: 180 (134 kw)
- Maximum RPM: 370
- No. of Plungers: 3
- Stroke Length: 5 in. (127 mm)
- Plunger Load: 11,560 lbs. (5,242 kg)
- Discharge Hydrostatic Test Pressure
  - LP – 3,000 psi (211 kg/cm<sup>2</sup>)
  - MP – 7,410 psi (521 kg/cm<sup>2</sup>)
  - HP – 15,000 psi (1,055 kg/cm<sup>2</sup>)
- Oil Capacity: 14.5 gal. (40 liters)
- Pump Weight: 3,355 lbs. (1,522 kg)



## PERFORMANCE RATINGS

Plunger Size		Maximum Pressure		Displacement per revolution		Gallons Per Minute at the following RPM:											
						175		200		250		300		350		370	
in.	mm	PSI	kg/cm <sup>2</sup>	gal.	liters	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
<b>Low Pressure Aluminum Bronze (TDEA) Fluid End</b>																	
4 1/4	108	815	57	0.921	3.486	161	610	184	697	230	872	276	1046	322	1220	341	1290
4	102	920	65	0.816	3.089	143	541	163	618	204	772	245	927	286	1081	302	1143
3 3/4	1050	1050	74	0.717	2.714	125	475	143	543	179	679	215	814	251	950	265	1004
3 1/2	1200	1200	84	0.625	2.366	109	414	125	473	156	591	188	710	219	828	231	875
3 1/4	1395	1395	98	0.539	2.040	94	357	108	408	135	510	162	612	189	714	199	755
3	1480	1480	104	0.459	1.738	80	304	92	348	115	434	138	521	161	608	170	643
<b>Medium Pressure Aluminum Bronze (TDEB) Fluid End</b>																	
3	1635	1635	115	0.459	1.738	80	304	92	348	115	434	138	521	161	608	170	643
2 3/4	1945	1945	137	0.386	1.461	68	256	77	292	97	365	116	438	135	511	143	541
2 1/2	2355	2355	166	0.319	1.208	56	211	64	242	80	302	96	362	112	423	118	447
2 1/4	2910	2910	205	0.258	0.977	45	171	52	195	65	244	77	293	90	342	95	361
2	3680	3680	259	0.204	0.772	36	135	41	154	51	193	61	232	71	270	75	286
<b>Extra HP Forged (TDEG), HP Block Steel (TDEC), Forged Steel (TDEF) Fluid Ends</b>																	
2	3680	3680	259	0.204	0.772	36	135	41	154	51	193	61	232	71	270	75	286
1 7/8	4190	4190	295	0.179	0.678	31	119	36	136	45	169	54	203	63	237	66	251
1 3/4	4805	4805	338	0.156	0.591	27	103	31	118	39	148	47	177	55	207	58	218
1 5/8	5580	5580	392	0.135	0.511	24	89	27	102	34	128	41	153	47	179	50	189
1 1/2	6535	6535	459	0.115	0.435	20	76	23	87	29	109	35	131	40	152	43	161
1 3/8	7780	7780	547	0.096	0.363	17	64	19	73	24	91	29	109	34	127	36	134
1 1/4	9415	9415	662	0.080	0.303	14	53	16	61	20	76	24	91	28	106	30	112

Based on 90% mechanical efficiency and 100% volumetric efficiency.  
For applications within shaded area contact Customer Service.

Specifications subject to change without notice.



## TDE (GD 180T) CONTINUOUS DUTY PLUNGER PUMP

### STANDARD EQUIPMENT

- Oil level gauge.
- Crankshaft type construction.
- Double-extended crankshaft 4.0" (10.16 mm) dia., 8.0" (20.32 mm) long.
- Keyway (L x W x H) 7.1" x 1" x .57" (18.03 x 2.54 x 1.45 mm).
- Turbo lubrication.
- Flanged suction and discharge connections on either side.
- Stainless steel clamp connections between plungers and push rods.
- Removable stuffing boxes with threaded glands.
- Cradle cover.
- Colmonoy, ceramic, or tungsten carbide plungers.
- Disc style aluminum bronze, stainless steel, or monel valves.
- Wing-guided aluminum bronze, steel, or stainless steel valves.
- Non-adjustable packing standard. Kevlar or double stack packing optional.

### ACCESSORIES

- Mechanical lubricator for stuffing box packing.
- Suction stabilizers.
- Discharge pulsation dampeners.
- Discharge pressure relief valve.
- Fabricated steel skid under pump and drive.
- V-belt drive assembly.
- Totally enclosed metal belt guard (OSHA approved).
- Valve seat puller.
- Valve seat driver.
- Valve cage wrench.
- Companion flanges.

	Suction Manifold	Discharge Manifold
TDEA	6" 150# ANSI	3" 2000# API
TDEB	4" 150# ANSI	2" 1500# ANSI
TDEC	3" 300# ANSI	1-13/16" 10,000# API
TDEF	3" 300# ANSI	1-13/16" 10,000# API
TDEG	2" 300# SAE	2" GR14

**Note:** All installations must contain a pressure relief valve in the discharge line near the pump to help prevent breakage.

**Dimensions:** Length 59.43", Width 47.62", Height 22.12"

### MATERIAL SPECIFICATIONS

SERVICE	TYPE	CYLINDER	PACKING	STUFFING BOX	COMPONENT	MATERIAL
TDEA	Low Pressure	ASTM B-148-9D Aluminum Bronze	Buna-N Non-Adjustable Type	ASTM B-148-9D Aluminum Bronze	Crankshaft Connecting Rods	Cast Nodular Iron Cast Nodular Iron
TDEB	Medium Pressure	ASTM B-148-9D Aluminum Bronze	Buna-N Non-Adjustable Type	ASTM B-148-9D Aluminum Bronze	Crossheads Frame	Cast Nodular Iron Cast Iron
TDEC	High Pressure	ASTM A-514 Forged Steel	Buna-N Non-Adjustable Type	ASTM A546 Iron	Bearing-Main Bearing-Crankpin	Tapered Roller Steel Lined with Tin & Babbit
TDEF	High Pressure	ASTM A-514 Block Steel	Buna-N Non-Adjustable Type	ASTM A536 Nodular Steel	Bushing-Crosshead	Bronze
TDEG	Extra High Pressure	ASTM A-514 Forged Steel	Buna-N Non-Adjustable Type	ASTM A536 Nodular Iron		

\*Materials listed are furnished as standard equipment. Alternate materials available upon request.



For additional information contact your local representative or  
Gardner Denver Compressor and Pump Division,  
Customer Service Department

Sales and Service in all major cities.

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