

ROTATING RIGHT

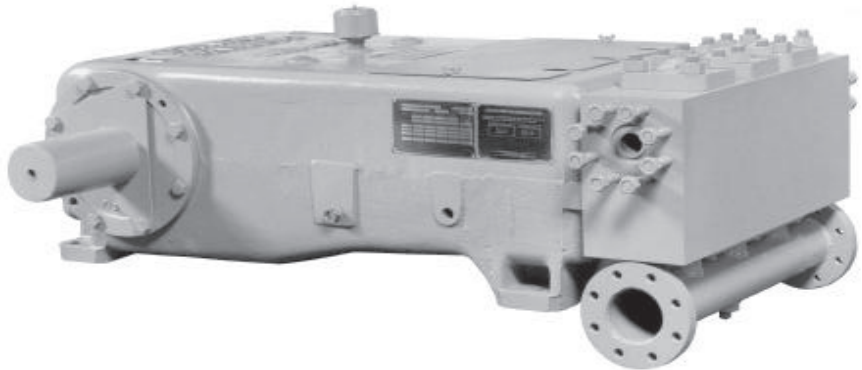
# GARDNER DENVER TECHNICAL DATA SHEETS



## 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# A
TDEF	3" 300# ANSI	1-13/16" 10,000# A
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		



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