

ROTATING RIGHT

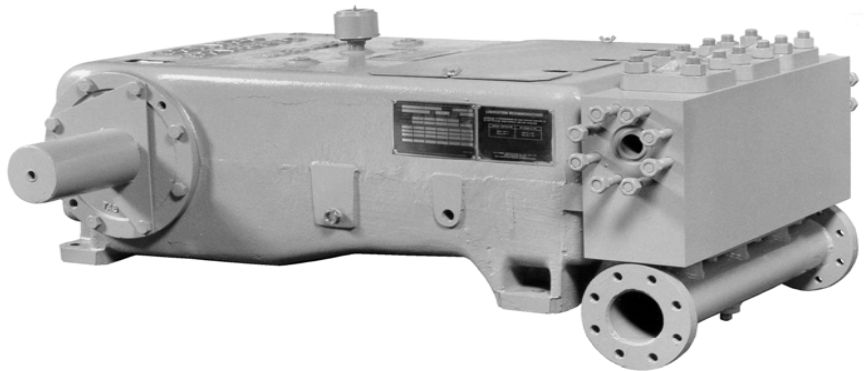
GARDNER DENVER TECHNICAL DATA SHEETS



TAE (GD-150T) CONTINUOUS DUTY PLUNGER PUMP

SPECIFICATIONS:

Maximum BHP: 150 (112 kw)
Maximum RPM: 370
No. of Plungers: 3
Stroke Length: 5 in. (127 mm)
Plunger Load: 9,633 lbs. (4,378 kg)
Discharge Hydrostatic Test Pressure
 LP – 3,000 psi (211 kg/cm²)
 MP – 7,410 psi (521 kg/cm²)
 HP – 15,000 psi (1055 kg/cm²)
Oil Capacity: 14.5 gal. (55 liters)
Pump Weight: 3,355 lbs. (1,522 kg)



PERFORMANCE RATINGS

Plunger Size		Maximum Pressure		Displacement per revolution		Gallons Per Minute/Liters at the following RPM:											
						175		200		250		300		350		370	
in.	mm	PSI	kg/cm ²	gal.	liters	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
LOW PRESSURE ALUMINUM BRONZE FLUID END (TAEF)																	
4.25	108	680	48	0.921	3.486	161	610	184	697	230	871	276	1046	322	1220	341	1290
4.00	102	770	54	0.816	3.089	143	540	163	618	204	772	245	927	286	1081	302	1143
3.75	95	870	61	0.717	2.714	125	475	143	543	179	678	215	814	251	950	265	1004
3.50	89	1000	70	0.625	2.366	109	414	125	473	156	591	188	710	219	828	231	875
3.25	83	1160	82	0.539	2.040	94	357	108	408	135	510	162	612	189	714	199	755
3.00	76	1360	96	0.459	0.216	80	304	92	347	115	434	138	521	161	608	170	643
MEDIUM PRESSURE ALUMINUM BRONZE FLUID END (TAEG)																	
3.00	76	1365	96	0.459	1.737	80	304	92	347	115	434	138	521	161	608	170	643
2.75	70	1620	115	0.386	1.461	68	256	77	292	97	365	116	438	135	511	143	541
2.50	64	1960	139	0.319	1.207	56	211	64	241	80	302	96	362	112	423	118	447
2.25	57	2420	170	0.258	0.977	45	171	52	195	65	244	77	293	90	342	95	361
2.00	51	3065	218	0.204	0.772	36	135	41	154	51	293	61	232	71	270	75	286
EXTRA HP FORGED STEEL (TAEM), HP BLOCK STEEL (TAEH), HP FORGED STEEL (TAEI) FLUID ENDS																	
2.00	51	3065	215	0.204	0.772	36	135	41	154	51	193	61	232	71	270	75	286
1.88	48	3490	244	0.179	0.678	31	119	36	136	45	169	54	203	63	237	66	251
1.75	44	4005	280	0.156	0.590	27	103	31	118	39	148	47	177	55	207	58	218
1.63	41	4645	325	0.135	0.511	24	89	27	102	34	128	41	153	47	179	50	189
1.50	38	5445	381	0.115	0.435	20	76	23	87	29	109	35	131	40	152	43	161
1.38	35	6480	454	0.096	0.363	17	64	19	73	24	91	29	109	34	127	36	134
1.25	32	7850	550	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.

Specifications subject to change without notice.



TAE (GD-150T) 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 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
TAEF	6" 150# ANSI	3" 2000# API
TAEG	4" 150# ANSI	2" 1500# ANSI
TAEL	3" 300# ANSI	1-13/16" 10,000# API
TAEH	3" 300# ANSI	1-13/16" 10,000# API
TAEM	2" 3000# 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
TAEF	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
TAEG	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
TAEL	High Pressure	ASTM A-514 Forged Steel	Buna-N Non-Adjustable Type	ASTM A536 Cast Nodular Iron	Bearing-Main Bearing-Crankpin	Tapered Roller Steel Lined with Tin & Babbit
TAEH	High Pressure	ASTM A-514 Block Steel	Buna-N Non-Adjustable Type	ASTM A536 Carbon Steel	Bushing-Crosshead	Bronze
TAEM	Extra High Pressure	ASTM A-514 Forged Steel	Buna-N Non-Adjustable Type	ASTM A536 Cast Nodular Iron		

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



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