

ROTATING RIGHT

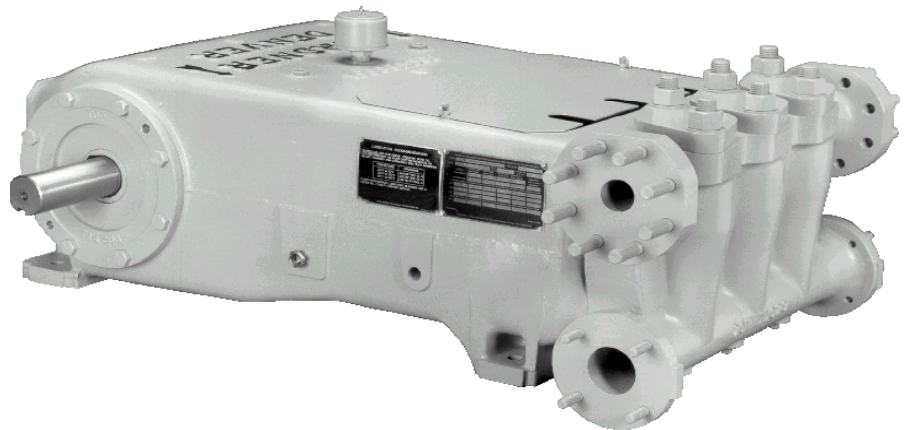
GARDNER DENVER TECHNICAL DATA SHEETS



TDD (GD-100T) CONTINUOUS DUTY PLUNGER PUMP

SPECIFICATIONS:

Maximum BHP: 100 (75 kw)
Maximum RPM: 425
No. of Plungers: 3
Stroke Length: 4 in. (102 mm)
Plunger Load: 7,175 lbs. (3,255 kg)
Discharge Hydrostatic Test Pressure
 LP – 2,190 psi (154 kg/cm²)
 HP – 4,470 psi (314 kg/cm²)
Oil Capacity: 10.5 gal. (40 liters)
Pump Weight: 2,900 lbs. (1,315 kg)



PERFORMANCE RATINGS

Plunger Size		Maximum Pressure		Displacement per revolution		Gallons Per Minute/Liters at the following RPM:													
						175		200		250		300		350		400		425	
in.	mm	PSI	kg/cm ²	gal.	liters	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
LP ALUMINUM BRONZE (TDDA), STEEL (TDDC), NODULAR IRON (TDDE) FLUID END																			
3.50	89	745	52	0.500	1.893	88	331	100	379	125	473	150	568	175	662	200	757	213	804
3.25	83	865	61	0.431	1.631	75	285	86	326	108	408	129	489	151	571	172	653	183	693
3.00	76	1015	71	0.367	1.389	64	243	73	278	92	347	110	417	128	486	147	556	156	590
2.75	70	1205	85	0.309	1.170	54	205	62	234	77	292	93	351	108	409	124	468	131	497
2.50	64	1460	103	0.255	0.965	45	169	51	193	64	241	77	290	89	338	102	386	108	410
MP ALUMINUM BRONZE (TDDB) FLUID END																			
2.50	64	1460	103	0.255	0.965	45	169	51	193	64	241	77	290	89	338	102	386	108	410
2.25	57	1800	127	0.207	0.783	36	137	41	157	52	196	62	235	72	274	83	313	88	333
2.00	51	2280	160	0.163	0.617	29	108	33	123	41	154	49	185	57	216	65	247	69	262
1.75	44	3000	210	0.125	0.473	22	83	25	95	31	118	38	142	44	166	50	189	53	201

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

Specifications subject to change without notice.



TDD (GD-100T) CONTINUOUS DUTY PLUNGER PUMP

STANDARD EQUIPMENT

- Oil level gauge.
- Crankshaft type construction.
- Double-extended crankshaft 2.88" (7.32 mm) dia., 6.0" (15.24 mm) long.
- Keyway (L x W x H) 5" x .75" x .43" (12.7 x 1.9 x 1.09 mm).
- Turbo lubrication.
- 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
TDDA	4" 150# ANSI	3" 600# ANSI
TDDB	3" 150# ANSI	2" 1500# ANSI
TDDC	4" 600# ANSI	3" 600# ANSI

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

Dimensions: Length 54.13", Width 41.00", Height 32.50"

MATERIAL SPECIFICATIONS

SERVICE	TYPE	CYLINDER	PACKING	STUFFING BOX	COMPONENT	MATERIAL
TDDA	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
TDDB	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
TDDC	Low Pressure	AISI 8630 Cast Steel	Buna-N Non- Adjustable Type	ASTM A536 Cast Nodular Iron	Bearing-Main Bearing-Crankpin Bushing-Crosshead	Tapered Roller Steel Lined with Tin & Babbit Bronze

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



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