



## TQW (GD-45T) CONTINUOUS DUTY PLUNGER PUMP

### SPECIFICATIONS:

Maximum BHP: 46 (34 kw)

Maximum RPM: 550

No. of Plungers: 3

Stroke Length: 2.5 in. (63.5 mm)

Plunger Load: 4,000 lbs. (1,814 kg)

Discharge Hydrostatic Test Pressure

LP – 3,400 psi (239 kg/cm<sup>2</sup>)

HP – 7,500 psi (527 kg/cm<sup>2</sup>)

Oil Capacity: 4 gal. (15 liters)

Pump Weight: 730 lbs. (331 kg)



### PERFORMANCE RATINGS

Plunger Size		Maximum Pressure		Displacement per revolution		Gallons Per Minute/Liters at the following RPM:											
						225		300		400		450		500		550	
in.	mm	PSI	kg/cm <sup>2</sup>	gal.	liters	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM	GPM	LPM
LP ALUMINUM BRONZE (TQWA), CAST NODULAR IRON (TQWC), CARBON STEEL (TQWD) FLUID ENDS																	
2.75	70	675	47	0.193	0.731	43	164	58	219	77	292	87	329	97	365	106	402
2.50	64	815	57	0.159	0.602	36	135	48	181	64	241	72	271	80	301	87	331
2.25	57	1005	71	0.129	0.488	29	110	39	146	52	195	58	220	65	244	71	269
2.00	51	1275	90	0.102	0.386	23	87	31	116	41	154	46	174	51	293	56	212
1.75	44	1665	117	0.078	0.295	18	66	23	89	31	118	35	133	38	148	43	162
1.50	38	2000	159	0.057	0.216	13	49	17	65	23	86	26	97	29	108	31	119
HP BLOCK ALUMINUM BRONZE FLUID END (TQWB)																	
1.50	38	2265	159	0.057	0.216	13	49	17	65	23	86	26	97	29	108	31	119
1.25	32	3260	229	0.040	0.151	9	34	12	45	16	60	18	68	20	75	22	83
1.00	25	5000	352	0.025	0.095	6	22	8	29	10	39	11	43	13	48	14	53

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

Specifications subject to change without notice.



## TQW (GD-45T) CONTINUOUS DUTY PLUNGER PUMP

### STANDARD EQUIPMENT

- Oil level gauge.
- Crankshaft type construction.
- Double-extended crankshaft 2.5" (6.35 mm) dia., 4.13" (10.49 mm) long.
- Keyway (L x W x H) 2.75" x .625" x .625" (6.98 x 1.59 x .91 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
TQWA	2 1/2" NPT	2" NPT
TQWB	3" NPT	2" NPT
TQWC	2 1/2" NPT	2" NPT
TQWD	2 1/2" 300# SAE	2" 3000# SAE

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

**Dimensions:** Length 36.50", Width 38.75", Height 17.375"

### MATERIAL SPECIFICATIONS

SERVICE	TYPE	CYLINDER	PACKING	STUFFING BOX	COMPONENT	MATERIAL
TQWA	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
TQWC	Low Pressure	ASTM A536 Nodular Iron	Buna-N Non-Adjustable Type	ASTM A536 Cast Nodular Iron	Crossheads Frame	Cast Nodular Iron Cast Iron
TQWD	Low Pressure	AISI 1035 Carbon Steel	Buna-N Non-Adjustable Type	AISI 1035 Carbon Steel	Bearing-Main Bearing-Crankpin	Tapered Roller Steel Lined with
TQWB	High Pressure	ASTM B-148-9D Aluminum Bronze	Buna-N Non-Adjustable Type	ASTM B-148-9D Aluminum Bronze	Bushing-Crosshead	Tin & Babbit Bronze

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