

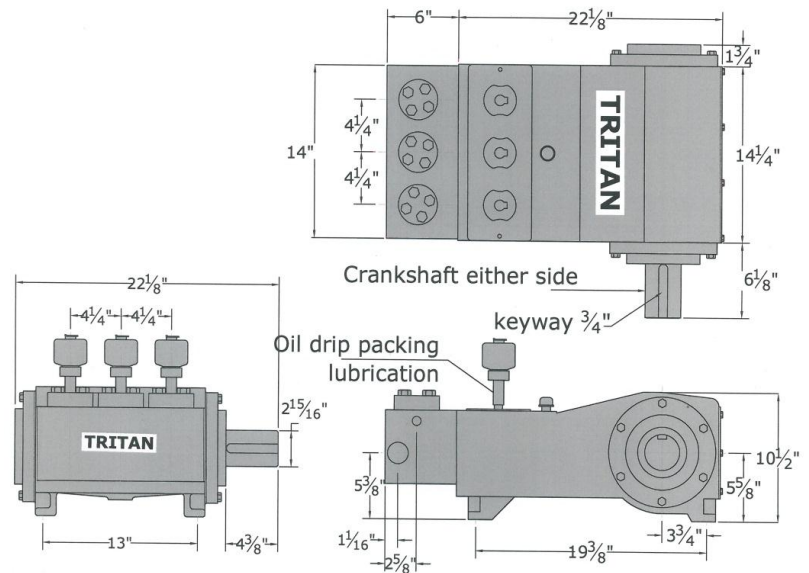


McFarland – TriTan, LLC
 The “High Pressure” Specialists!

Series 3085 SX

Triplex Plunger Pumps

Pressure to 40,000 PSI | Flow to 24 GPM | Power to 85 HP



DISPLACEMENT VOLUME (100% VOL.EFF.) GPM BPH BPD			PUMP SPEED IN CRANKSHAFT REVOLUTIONS PER MINUTE							
			3/8" 40,000 PSI	5/8" 25,500 PSI	3/4" 18,000 PSI	7/8" 13,200 PSI	1" 10,000 PSI	1-1/8" 8,000 PSI	1-1/4" 6,400 PSI	1-3/8" 5,300 PSI
0.2	0.3	7	56							
0.3	0.4	10	83							
0.5	0.7	17	139	50						
1	1.4	34	277	100	70	51				
2	3	69		200	140	102	78	61	50	
3	4	103		300	210	154	117	93	75	62
5	7	168		500	350	256	196	155	125	103
7	10	245			500	359	274	217	175	145
9	13	307				461	352	278	226	187
10	14	336				500	392	309	251	207
12	17	403					500	371	301	249
14	20	470						433	352	290
16	22	538						500	402	332
18	25	605							452	373
20	28	672							500	414
22	30	739								456
24	34	806								500
GPM FACTOR			0.0036	0.100	0.0143	0.0195	0.0255	0.0323	0.0398	0.0482
BPH FACTOR			0.0051	0.0143	0.0204	0.0278	0.0364	0.0461	0.0569	0.0689
			500 Max RPM BHP=(GPM XPSI) / 1543 All figures based on 100% volumetric efficiency							

Applications:

- * Hydrostatic Testing
- * Water Blasting/
Jetting
- * Chemical Injection
- * Concrete Demolition
- * Water Disposal

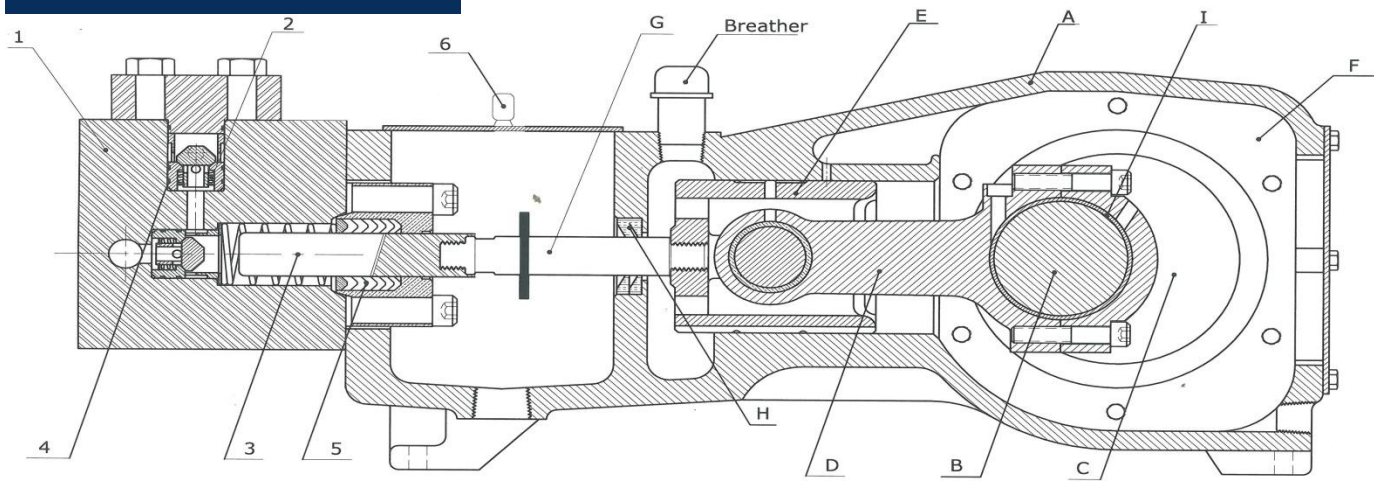
921 Seaco Court, Deer Park, TX 77536, USA

Tel: 1-713-864-3366 / Fax: 1-713-864-3252

Email: sales@tritanpump.com

www.tritanpump.com

Series 3085 SX



SPECIFICATIONS

- * Number of Plungers 3
- * Stroke Length: 2-1/2" (63.5 mm)
- * Plunger Load 7960 lbs
- * Pump Weight 585 lbs
- * Oil Capacity 1 U.S gallons
- * Suction Connection 1-1/2" NPT
- * Discharge Connection 1/2" NPT or Autoclave

FLUID END

- 1) Fluid End Body:** Forged stainless steel high pressure fluid block.
- 2) Valves:** All valves assemblies completely interchangeable- No selective fits required. Valves are all vertical, reducing valve guide friction found in Horizontal valves.
- 3) Plungers:** Plunger materials available are: colmonoy coated stainless steel, ceramic.
- 4) Valve Seats:** O-Ring sealed and "Sandwiched" in place. Reversible for extra-long life. No threads or tight fit. Replaced in minutes.
- 5) Plunger Packing:** Non-Adjustable or spring loaded plunger packing-Changed in minutes without fluid block removal.
- 6) Plunger Lubrication:** Water packing lubrication is standard for all stainless steel high pressure pumps. Grease, Oil drip, and forced feed lubrication are furnished as designated.

POWER END

- A) Power Frame:** High strength gray iron alloy casting with heavy wall sections well ribbed to insure rigid construction, totally enclosed with sealed access cover
- B) Crankshaft:** Ductile iron for inherent shock load damping, mounted with center line of shaft on center line of cross-head. Crankshafts may extend from either side.
- C) Crankshaft Bearings:** Interchangeable heavy duty roller bearing. Minimum L-10 rated life of 60,000 hours at maximum RPM.
- D) Connecting Rods:** All TriTan plunger pumps are equipped with H-type connecting rods, with replaceable inserts.
- E) Crossheads:** High strength alloy castings, cross head and guides are Cylindrical for maximum bearing area and alignment, Crosshead pins are hardened and ground steel.
- F) Lubrication:** All power end parts are lubricated by splash system from oil in crankcase reservoir. Power frame has an oil return channel, from front of crossheads back to crankcase, to permit constant circulation of oil and to help keep oil cool.
- G) Pony Rods:** Pony rods are polished stainless steel, independent-not part of crosshead or plunger.
- H) Pony Rods Seals:** Double acting lip seals around pony rod-prevents oil leakage from the inside and precludes contamination entering from the outside.
- I) Connecting Rod Bearings:** Similar to those in finest diesel engine for shock resistance and long wear life.



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