

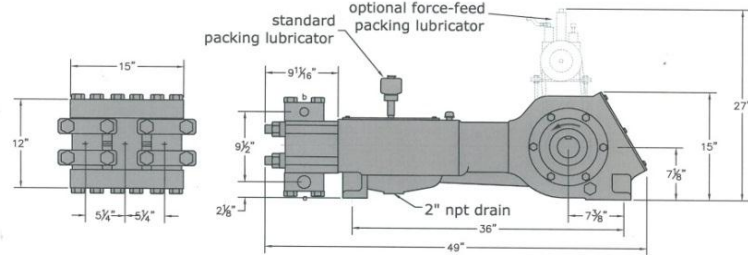
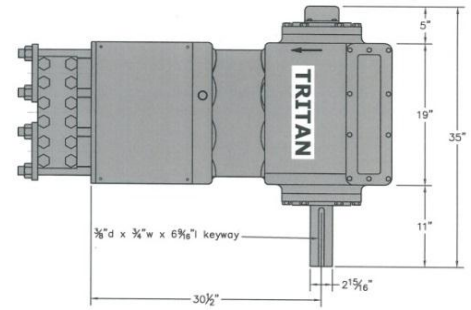
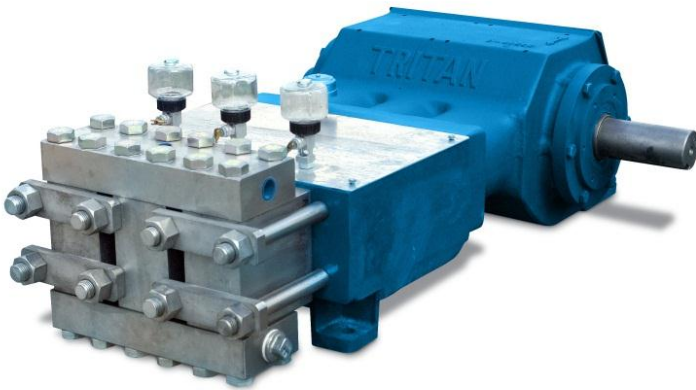


**McFarland - TriTan, LLC**  
The "High Pressure" Specialists!

**Series 3150 SX**

**Triplex Plunger Pumps**

**Pressure to 40,000 PSI | Flow to 34 GPM | Power to 150 HP**



DISPLACEMENT VOLUME (100% VOL.EFF.) GPM BPH BPD			PUMP SPEED IN CRANKSHAFT REVOLUTIONS PER MINUTE								
			3/8" 40,000 PSI	5/8" 30,000 PSI	3/4" 22,000 PSI	7/8" 16,530 PSI	1" 12,655 PSI	1-1/8" 10,000 PSI	1-1/4" 8,100 PSI	1-3/8" 6,695 PSI	
0.6	0.9	21	118								
0.8	1.2	28	157	57							
1	1.4	35	196	72	50						
2	3	72	392	144	100	73	56				
4	6	144		288	199	147	112	88	72	59	
6	9	216		432	299	220	168	133	108	89	
8	11	274			398	293	224	177	143	119	
10	14	336			498	366	280	221	179	148	
12	17	408				440	336	265	215	178	
14	20	480				512	392	310	251	207	
16	23	552					448	354	287	237	
18	26	624					504	398	323	267	
20	29	696						442	358	296	
22	32	768						487	394	326	
24	34	816							430	356	
26	37	886							466	385	
28	40	960							502	415	
30	43	1,032								444	
32	46	1,104								474	
34	49	1,176								504	
GPM FACTOR			0.0051	0.0139	0.2001	0.0273	0.0357	0.0452	0.0558	0.0675	
BPH FACTOR			0.0072	0.0199	0.0287	0.0390	0.0510	0.0646	0.0797	0.0964	
500 Max RPM      BHP=(GPM XPSI) / 1543 All figures based on 100% volumetric efficiency											

**Applications:**

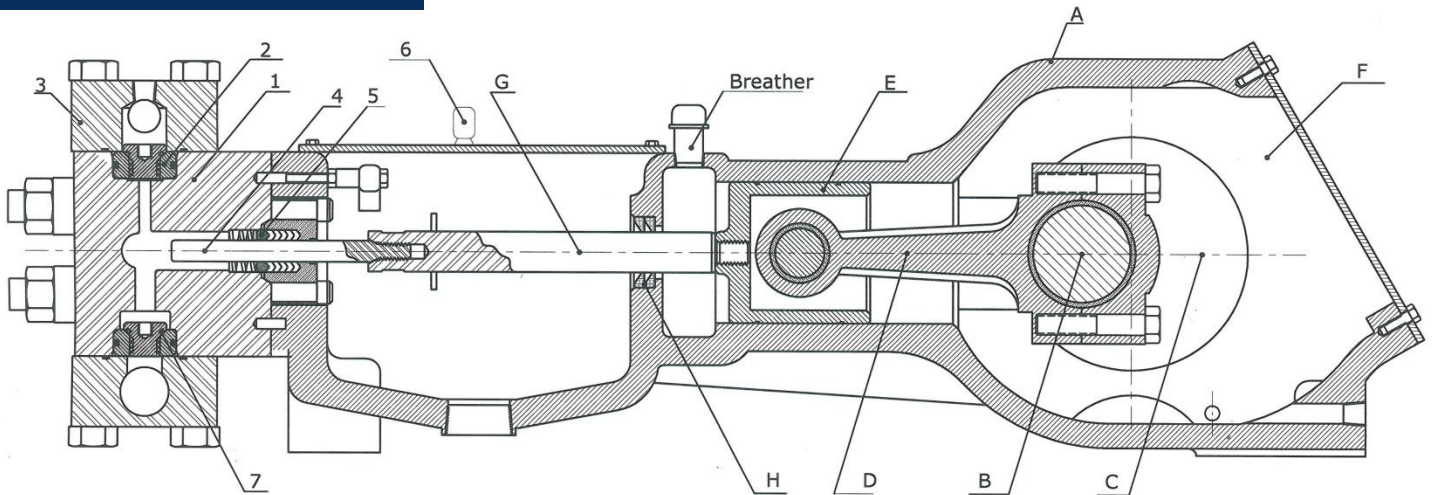
- \* Hydrostatic Testing
- \* Water Blasting/  
Jetting
- \* Chemical Injection
- \* Concrete Demolition
- \* Water Disposal

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www.tritanpump.com

# Series 3150 SX



## SPECIFICATIONS

- \* Number of Plungers 3
- \* Stroke Length: 3-1/2" (89 mm)
- \* Plunger Load 9940 lbs
- \* Pump Weight 1455 lbs
- \* Oil Capacity 2 U.S gallons
- \* Suction Connection 1-1/2" NPT
- \* Discharge Connection 1" NPT or Autoclave

### FLUID END

- 1) Fluid End Body:** Stainless steel alloys for high pressure applications with generous radii at intersecting bores reduces stress points that can cause fluid block cracks. Smooth flow body design reduces flow velocity, turbulence and pulsation-virtually eliminates cavitation.
- 2) Valves:** . All stainless steel fluid end pumps are furnished with cone seat internal spring non-tapered seat style valves. All valves are vertical eliminating valve guide friction drag found in horizontal valves.
- 3) Valve Covers:** Stainless steel fluid end with bolts- on valve covers to prevent galling.
- 4) Plungers:** Plunger materials available are: colmonoy coated stainless steel, ceramic, and tungsten carbide.
- 5) Packing:** Chevron "V" ring style high pressure plunger packing is furnished in all pumps, 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.
- 7) Metal to metal valve seating:** Precision metal to metal, plus O-Ring to metal, valve seating result in 98% volumetric efficiency –reduces horsepower requirements.

### 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.



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