

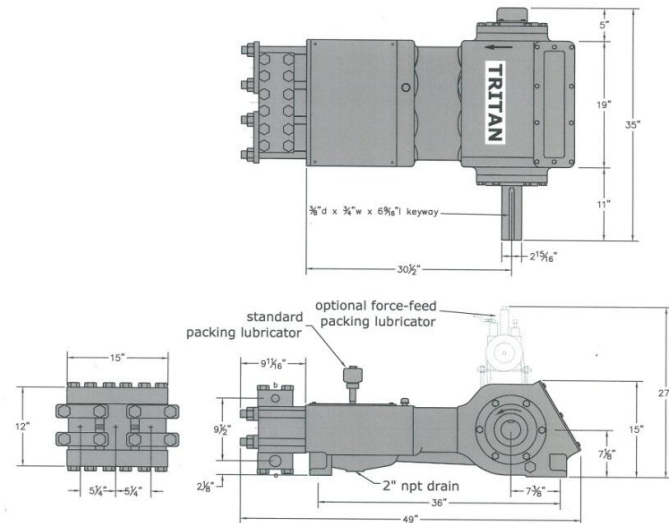
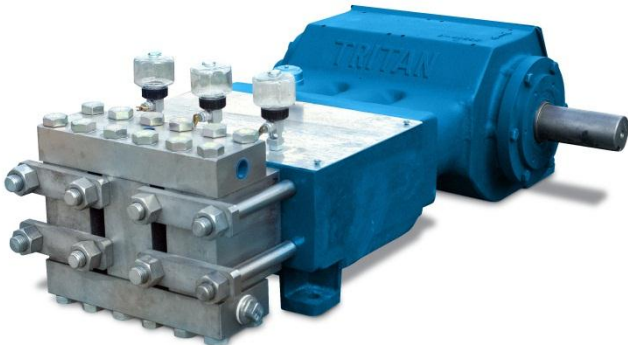


McFarland – TriTan, LLC
The “High Pressure” Specialists!

Series 3140 SX

Triplex Plunger Pumps

Pressure to 40,000 PSI | Flow to 44 GPM | Power to 200 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	
1	1	34	154	56							
2	3	69	308	112	78	57					
3	4	103	462	168	116	85					
4	6	137		223	155	114	87	69	56		
6	9	205		335	233	171	131	103	84	69	
8	11	274		447	310	228	174	138	112	92	
10	14	342			388	285	218	172	139	115	
12	17	411			415	342	261	207	167	138	
14	20	479				399	305	241	195	161	
16	23	549				456	349	275	223	184	
18	26	616					392	310	251	207	
20	28	684					436	344	279	230	
22	31	754					479	379	307	253	
24	34	821						413	335	276	
26	37	893						448	363	300	
28	40	961						482	391	323	
30	43	1,030							418	346	
32	46	1,098							446	369	
34	49	1,167							474	392	
36	51	1,234							502	415	
38	54	1,303								438	
40	57	1,372								461	
42	60	1,440								484	
44	63	1,509								507	
GPM FACTOR			0.0065	0.0176	0.0258	0.0351	0.0459	0.0581	0.0717	0.0868	
BPH FACTOR			0.0093	0.0259	0.0369	0.0502	0.0656	0.0830	0.1025	0.1240	

500 Max RPM BHP= (GPM X PSI) / 1543
All figures based on 100% volumetric efficiency

Applications:

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

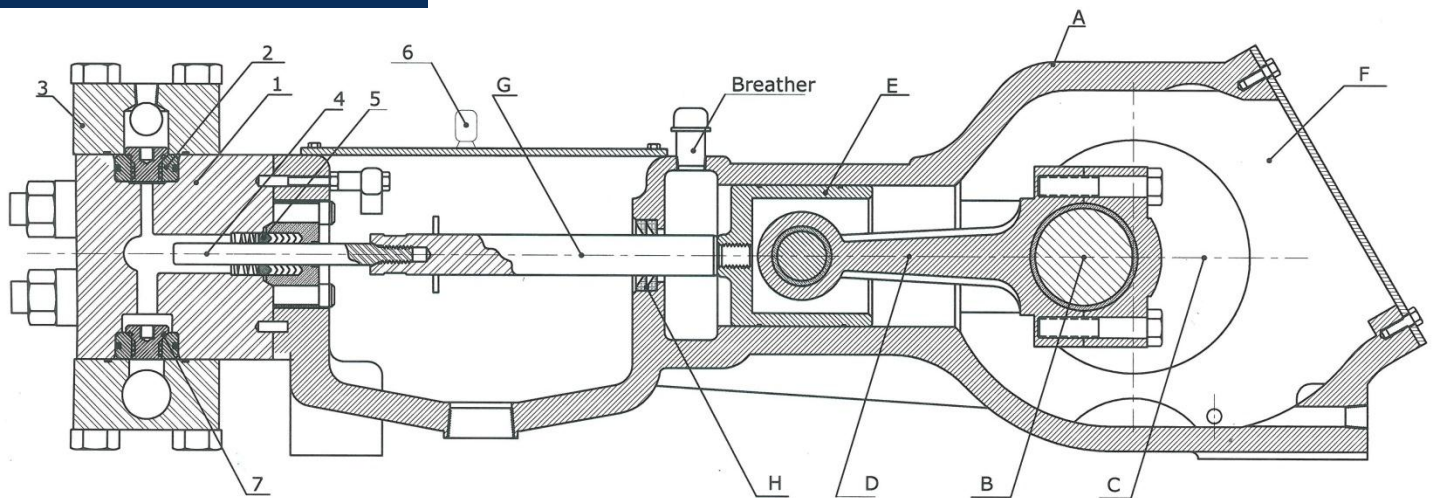
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Series 3140 SX



SPECIFICATIONS

- * Number of Plungers 3
- * Stroke Length: 4-1/2" (114 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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