

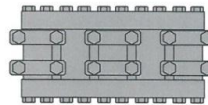
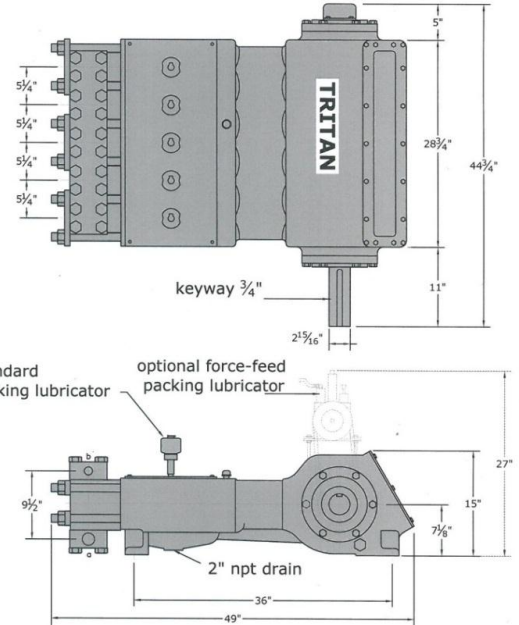


McFarland – TriTan, LLC
The “High Pressure” Specialists!

Series 5200 SX

Quintuplex Plunger Pumps

Pressure to 40,000 PSI | Flow to 56 GPM | Power to 250 HP



DISPLACEMENT VOLUME (100% VOL.EFF.)			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
GPM	BPH	BPD								
0.5	0.7	17	59							
1	1.4	34	118							
2	3	68	235	86						
3	4	102	353	129	89					
4	6	144	471	172	119	88	67	53		
6	8	192		259	179	131	101	80		
8	11	264		345	239	176	134	106	86	71
12	17	408			358	264	202	159	129	107
16	23	552			478	352	269	212	172	142
20	29	696				439	336	266	215	178
24	34	816					403	319	258	213
28	40	960					471	372	301	249
32	46	1,104						425	344	284
36	51	1,224						478	387	320
40	57	1,368							430	356
44	63	1,512							473	391
48	69	1,656								427
52	74	1,776								462
56	80	1,920								500
GPM FACTOR			0.084	0.0232	0.0335	0.0455	0.0595	0.0753	0.0930	0.1125
BPH FACTOR			0.0120	0.0331	0.0479	0.0650	0.0850	0.1076	0.1329	0.1607

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

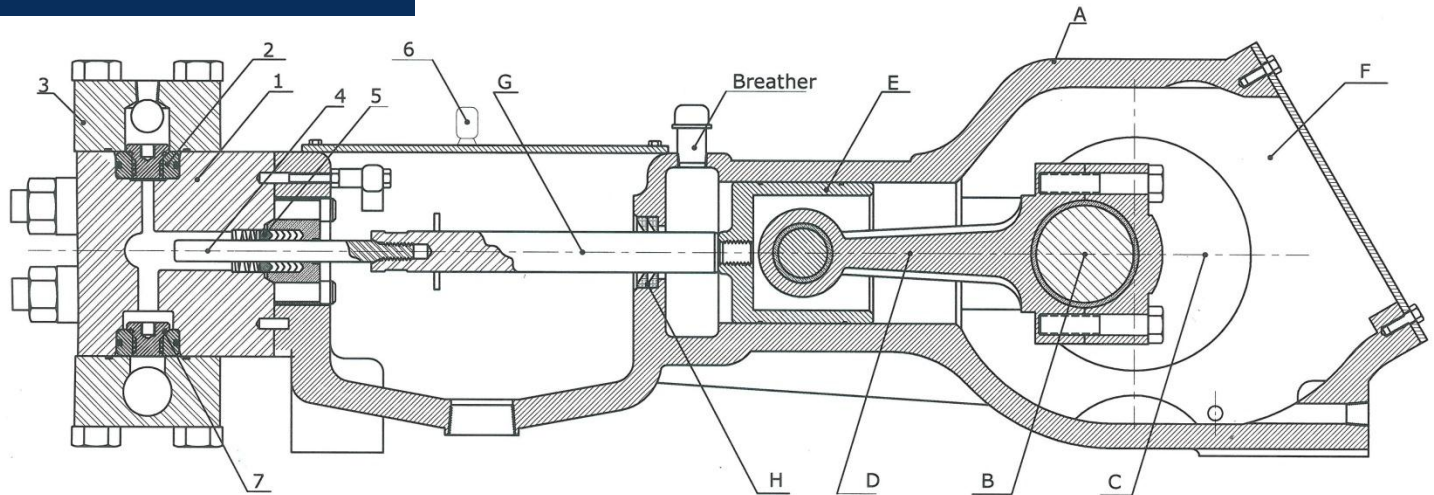
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Series 5200 SX



SPECIFICATIONS

- * Number of Plungers 5
- * Stroke Length: 3-1/2" (89 mm)
- * Plunger Load 9940 lbs
- * Pump Weight 2180 lbs
- * Oil Capacity 4 U.S gallons
- * Suction Connection 1-1/2" NPT
- * Discharge Connection 1" 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 Rod 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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