

PIJTTERSEN

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18 Frame Block-Style 10K - Triplex Positive Displacement Plunger Pump

Model

1810

FEATURES

Superior Design

- 1 Triplex plunger design provides smoother liquid flow.
- V-Packings and Lo-Pressure Seals are completely lubricated and cooled by the liquid being pumped.
- Low upswept volume maximizes volumetric efficiency.
- Oil bath crankcase assures optimum lubrication.
- Close tolerance concentricity of the ceramic plunger offers perfect alignment and maximizes seal life.

Quality Materials

- Precision stainless steel seat and ceramic ball provides true sphericity and long life.
- Block-style, stainless steel manifolds for strength and corrosion resistance
- Special concentric, high-density, polished, solid ceramic plungers provide a true wear surface and extended seal life.
- Special UHMV supported V-Packings for high pressure stability and extended life.
- Die cast aluminum crankcase provides high strength, minimum weight and precision tolerance control.
- Chrome-moly crankshaft gives unmatched strength and surface hardness.
- Oversized crankshaft bearings with greater loading capacity mean longer bearing life.

Easy Maintenance

- Wet-end is easily serviced without entering crankcase, requiring less time and effort.
- Preset packings mean no packing adjustment is necessary , reducing maintenance costs.

⚠ CAUTIONS AND WARNINGS

All High Pressure Systems require a primary pressure regulating device (i.e. regulator, unloader) and a secondary pressure relief device (i.e. pop-off valve, relief valve). Failure to install such relief devices could result in personal injury or damage to pump or property. CAT PUMPS does not assume any liability or responsibility for the operation of a customer 's high pressure system.

Read all CAUTIONS and WARNINGS before commencing service or operation of any high pressure system. The CAUTIONS and WARNINGS are included in each service manual and with each Data sheet. CAUTIONS and WARNINGS can also be viewed online at www.catpumps.com/cautions-war nings or can be requested directly from CATPUMPS.

WARRANTY

View the Limited Warranty on-line at www.catpumps.com/warranty.

SPECIFICATIONS	U.S. Measure	Metric Measure
Flow	3.0 gpm	(11.4 l/m)
Pressure Range	100 to 10,000 psi	(7 to 690 bar)
Inlet Pressure Range	Flooded to 60 psi	(Flooded to +4 bar)
RPM	1500 RPM	(1500 RPM)
Bore	0.433"	(11 mm)
Stroke	1.181"	(30 mm)
Crankcase Capacity	42 oz.	(1.24 l)
Maximum Liquid Temperature Above 130F call CAT PUMPS for inle		(71°C) mer recommendations.
Inlet Ports (2)	1/2" NPTF	(1/2" NPTF)
Discharge Ports (3)	3/8" NPTF	(3/8" NPTF)
Pulley Mounting	Either Side	(Either Side)
Shaft Diameter	1.181"	(30 mm)
Weight	60 lbs.	(27.2 kg)
Dimensions 19.	53 x 12.99 x 6.44"	(496 x 330 x 164 mm)

ELECTRIC HORSEPOWER REQUIREMENTS

FLOW			PRESSURE			RPM
			psi 5000	psi 7500	psi 10,000	
	U.S. gpm	l/m	bar 345	bar 517	bar 690	
	3.0 2.0	11.4 7.6	10.3 6.8	15.4 10.3	20.5 13.7	1500 1000
	1.0	3.8	3.4	5.1	6.8	500

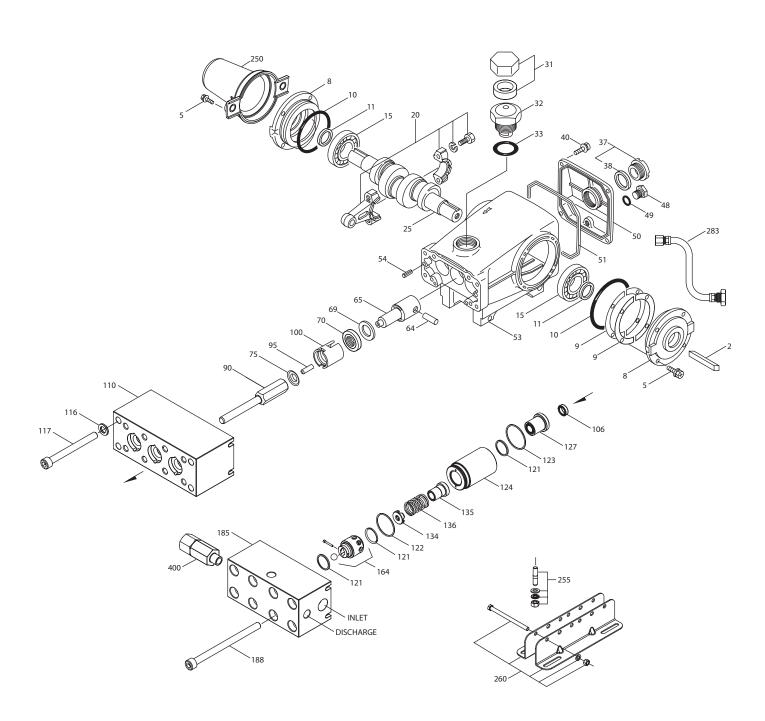
DETERMINING Rated gpm "Desired" gpm THE PUMP RPM Rated rpm "Desired" rpm DETERMINING gpm x psi Electric Brake THE REQUIRED H. 1460 H. P. Required DETERMINING Motor Pulley O.D. Pump Pulley O.D. Motor rpm MOTOR PULLEY SIZE Pump rpm

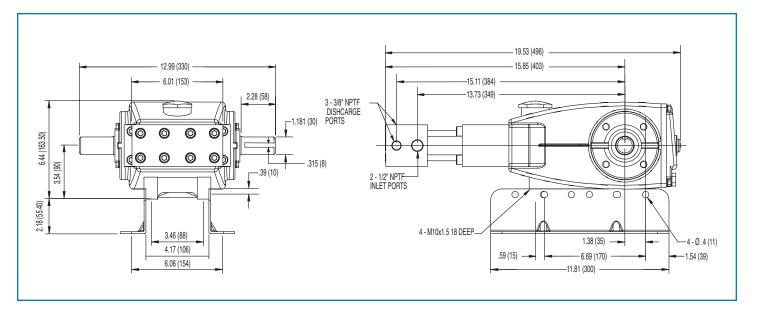
See complete Drive Packages [Inclds: Pulleys, Belts, Hubs, Key] Tech Bulletin 003.

Refer to pump Service Manual for repair procedure, additional technical information.

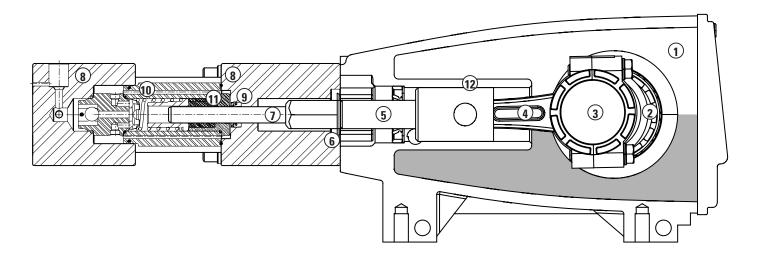
PARTS LIST

2 30067 STL Key (M8x7.8x25) 1 8	ITEM	P/N	MATL	DESCRIPTION	QTY
8					
9 815281 FBR Split Shim, Bearing Cover, 2 Pc. 814800 S Split Shim, Bearing Cover, 2 Pc. 10 11340 NBR O-Ring, Bearing Case - 70D 2 11 43495 NBR Seal, Oil, Crankshaft - 70D 2 15 39060 STL Bearing, Roller 2 12 43494 FCM Crankshaft - Dual End 1 13 826710 — Protector, Oil Cap w/Foam Gasket 1 13 826710 — Protector, Oil Cap w/Foam Gasket 1 13 826711 ABS Cap, Oil Filler 1 13 84428 NBR O-Ring, Filler Cap - 70D 1 13 84428 NBR Gasker, Flat, Oil Cauge, 60D 1 14 92542 S Scrow, HH/C Sems (M6x20) 4 16 92542 S Scrow, HH/C Sems (M6x20) 4 17 923170 NBR O-Ring, Drain Plug - 70D 1 18 44428 NBR Gasker, Flat, Oil Cauge, 60D 1 19 4391 AL Cover, Rear 1 10 44834 NBR O-Ring, Drain Plug - 70D 1 11 44834 NBR O-Ring, Drain (1/4*x/98SP) 1 15 44834 NBR O-Ring, Drain Flug - 70D 1 16 44834 NBR O-Ring, Bear Cover - 70D 1 17 6480 S Pin, Guide 2 18 4597 C Plug, Drain Ring, Short 3 18 4458 NBR Gasker, Bear Cover - 70D 1 19 44500 NBR SSCROW, Pin, Crosshead 3 18 67 45892 SSHB Rod, Plunger, Short 3 18 67 45892 SSHB Rod, Plunger, Short 3 18 67 45895 NBR Seal, Oil, Crankcase - 80D 3 18 67 67895 C Assentiby, Plunger, M11 w/S Holder 3 18 67 67820 ST CP Restricts of State					
814800 S Split Shim, Bearing Cover, 2 Pc. 2					
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15 39960 STL Bearing, Roller 2				o.	
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14177 NBR					
1972 92241					
40 92542 S SCrew, HHC Sems (M6x20) 4 48 25625 STCP Plug, Drain (14"x198SP) 1 49 23170 NBR O-Ring, Drain Plug - 70D 1 51 44834 NBR O-Ring, Drain Plug - 70D 1 51 44834 NBR O-Ring, Drain Plug - 70D 1 53 115471 AL Crankcase (Inclús: 54) 1 54 27488 S Pin, Guide 2 64 43507 CM Pin, Crosshead 3 65 48982 SHB Rod, Plunger, Short 3 69 126592 STCP R Washer, Seal 3 70 43500 NBR Seal, Oil, Crankcase - 80D 3 75 43506 S Silnger, Barrier 3 76 43506 S Silnger, Barrier 3 77 43506 S Silnger, Barrier 3 78 31585 S Stud, Plunger, M11 w/S Holder 3 78 31585 S Stud, Plunger, M11 w/S Holder 3 79 31585 S Stud, Plunger, M11 w/S Holder 3 70 43500 NBR Seal, Oil, Crankcase - 80D 3 71 43500 S Silnger, Barrier 3 72 43506 S Silnger, Barrier 3 73 43506 S Silnger, Barrier 3 74 43506 S Silnger, Barrier 3 75 43506 S Silnger, Barrier 3 76 43506 S Silnger, Barrier 3 77 43505 S Stud, Plunger, M11 w/S Holder 3 78 31585 S Stud, Plunger, M11 w/S Holder 3 79 31585 S Stud, Plunger, M11 w/S Holder 3 70 43509 POP Retainer, Rear Seal 3 710 43509 POP Retainer, Rear Seal 3 710 43509 POP Retainer, Rear Seal 3 711 76840 S Block, Housing 1 71 76840 S Block, Housing 1 71 31695 S Screw, HSH (M10 x 100) 4 71 31695 PTFE Ring, Cylinder Sealing 9 71 3147 76840 S Cylinder 3 71 76850 S Valve, Inlet Spring 3 71 76850 S Valve, Inlet Spring 3 71 76850 S Screw, HSH (M10 x 140) 8 71 76850 S Seat, Ball Assembly, V-Packing w/Cylinder Support 3 71 76850 S Screw, HSH (M10 x 140) 8 71 76850 S Screw, HSH (M10 x 140) 8 71 76850 S Screw, HSH (M10 x 140) 8 71 76850 S FP Mount, Rail Assy Mount, Rail Required on Diesel/Gas) 7 71 7690 S Houter Dies (Reief Valve) (Includes 3 diesc) 1 71 7690 S Austrain Rail Required on Diesel/Gas Assembly, Rupture Dies (Reief Valve) (Includes 3 diesc) 1 71 7600 SS Austrain, Rail Required on Diesel/Gas Assembly, Rupture Dies (Reief Valve) (Includes 3 dies	37	92241	_	- · · · · · · · · · · · · · · · · · · ·	1
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250 30764 NY R Protector, Shaft w/Two Screws 1 255 30264 STZP Mount, Direct 1 260 30613 STZP R Mount, Rail Assy 1 269 30206 F Mount, Rail (Required on Diesel/Gas) 1 269 30206 F Pulley (10") AB [See Drive Packages, Tech Bulletin 003] 1 274 30059 STL Hub, "H" (M30) (Keyway M8) [See Drive Packages, Tech Bulletin 003] 1 283 34334 - Kit, Oil Drain (3/8" x 24") (See Tech Bulletin 077) 1 299 992810 S Head, Complete, w/Plungers 1 300 76810 NBR* Kit, Seal (Inclds: 106, 121, 122, 123, 127) 1 310 76820 NBR Kit, Valve (Inclds: 121, 122, 123, 134, 136, 164) 1 350 30696 STZP Plier, Reverse 1 352 44050 STZP Tool, Oil Gauge Removal 1 400 9920 SS Assembly, Rupture Disc (Relief Valve) (Includes 3 discs) 1 - 76010 SS Rupture Disc, 15K 1					
30764S NY Protector, Shaft w/Two SS Screws 1					
255 30264 STZP Mount, Direct 1 260 30613 STZP R Mount, Rail Assy 1 990550 STZP R Mount, Rail (Required on Diesel/Gas) 1 269 30206 F Pulley (10") AB [See Drive Packages, Tech Bulletin 003] 1 274 30059 STL Hub, "H" (M30) (Keyway M8) [See Drive Packages, Tech Bulletin 003] 1 283 34334 — Kit, Oil Drain (3/8" x 24") (See Tech Bulletin 077) 1 299 992810 S Head, Complete, w/Plungers 1 300 76810 NBR* Kit, Seal (Inclds: 106, 121, 122, 123, 127) 1 310 76820 NBR Kit, Valve (Inclds: 121, 122, 123, 134, 136, 164) 1 350 30696 STZP Plier, Reverse 1 352 44050 STZP Tool, Oil Gauge Removal 1 400 9920 SS Assembly, Rupture Disc (Relief Valve) (Includes 3 discs) 1 — 76010 SS Rupture Disc, 15K 1 — 6107 — Oil, Bottle (21 oz.) ISO-68 Hydraulic 2	250				
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- 6119 - Lubricant, Antiseize (1 oz.) (See Tech Bulletin 095)					
	_	6119	_	Lubricant, Antiseize (1 oz.) (See Tech Bulletin 095)	1





Model 1810



- 1 Die cast aluminum **crankcase** means high strength, lightweight, and excellent tolerance control.
- Oversized crankshaft bearings provide ex-tended bearing life and pump performance.
- 3 Chrome-moly crankshaft provides unmatched strength and surface hardness for long life.
- 4 Matched oversized TNM connecting rods noted for superior tensile strength and bearing quality.
- 5 Special stainless steel high strength plunger rods for high load bearing and longevity.
- 6 The stainless steel slinger provides back-up protection for the crankcase seal, keeping pumped liquids out of the crankcase.
- 7 Special concentric, high-density, polished, solid ceramic plungers provide a true wear surface and extended seal life.
- 8 Manifolds are a high tensile strength stainless steel for long term, continuous duty and corrosion resistance.
- 9 100% wet seal design adds to service life by allowing pumped liquids to cool and lubricate on both sides.
- 10 Precision stainless steel seat and ceramic ball provide true sphericity and extended life.
- 11 Special UHMW supported V-Packings for high pressure stability and extended
- **12 Crossheads** are 360° supported for uncompromising alignment.

PN 993304 Rev B 2/10 12928



PIJTTERSEN

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