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38 Frame Block-Style Stainless Steel Plunger Pump

Standard Models **3821, 3831**

Flushed Models **3821K, 3831K**

FEATURES

Superior Design

- Triplex plunger design provides smoother liquid flow.
- Oil bath crankcase assures optimum lubrication.
- Close tolerance concentricity of the ceramic plunger maximizes seal life.
- Standard Models: Lo-Pressure Seals and V-Packings are completely lubricated and cooled by the liquid being pumped.
- K Models: Special Flushed Inlet Manifold permits flush for added cooling with high temperature liquids and lubrication with low lubricity liquids.

Quality Materials

- Precision design 316 stainless steel valves are hardened and polished for ultimate seating and extended valve life.
- 316 SSL block-style manifolds for strength and corrosion resistance.
- Special concentric, high-density, polished, solid ceramic plungers provide a true wear surface and extended seal life.
- Specially formulated, CAT PUMP exclusive, V-Packings offers unmatched performance and seal life.
- Die cast aluminum crankcase provides high strength, minimum weight and precision tolerance control.
- Optional Cast Iron crankcase for hazardous environments.
- Chrome-moly crankshaft gives unmatched strength and surface hardness.
- Oversized crankshaft bearings with greater loading capacity means longer bearing life.

Easy Maintenance

- Wet-end is easily serviced without entering crankcase, requiring less time and effort.
- Inlet and discharge valve assemblies interchange for easier maintenance without disturbing piping.
- Preset packings mean no packing gland adjustment is necessary, reducing maintenance costs.

⚠ WARNING

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

SPECIFICATIONS

U.S. Measure

Metric Measure

MODEL 3821, 3821K

Flow23 GPM

(87 L/M)

Pressure Range.

100 to 2000 PSI (7 to 140 BAR)

Bore1.260"

(32 mm)

MODEL 3831, 3831K

Flow36 GPM

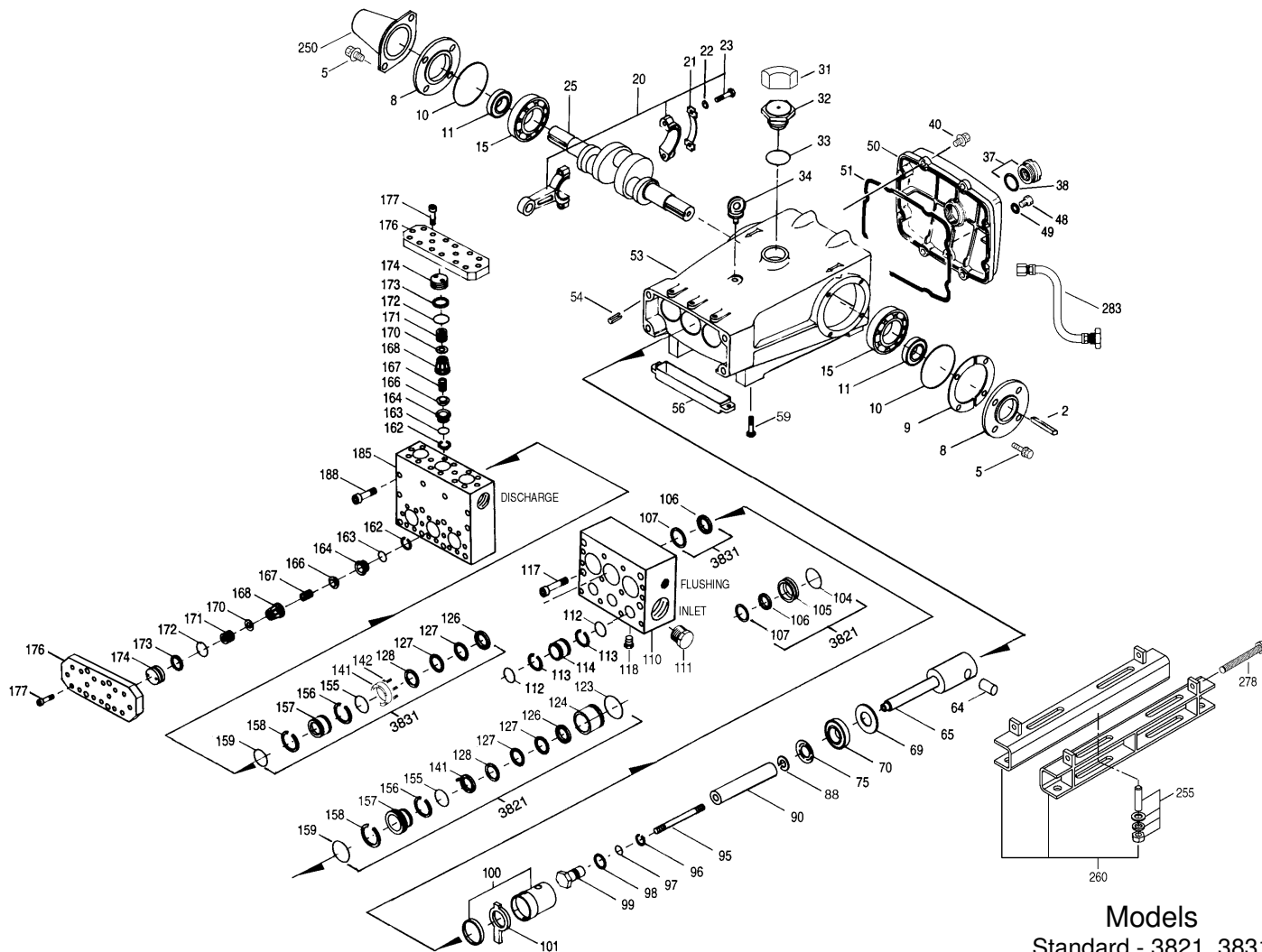
(136 L/M)

Pressure Range.

PARTS LIST

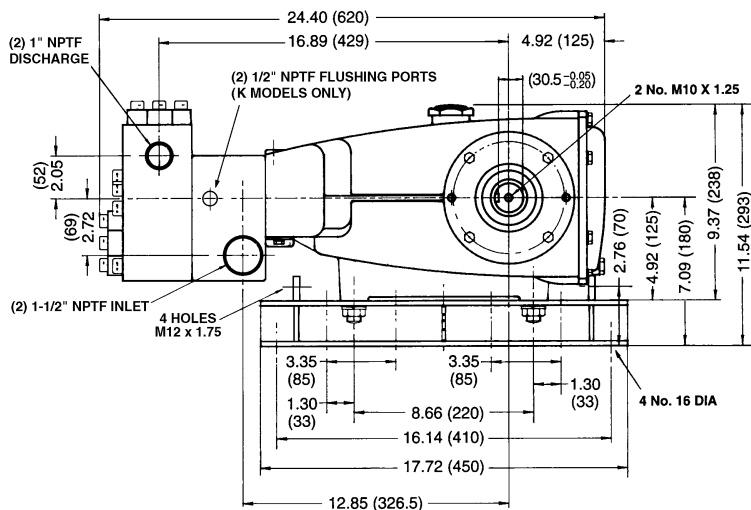
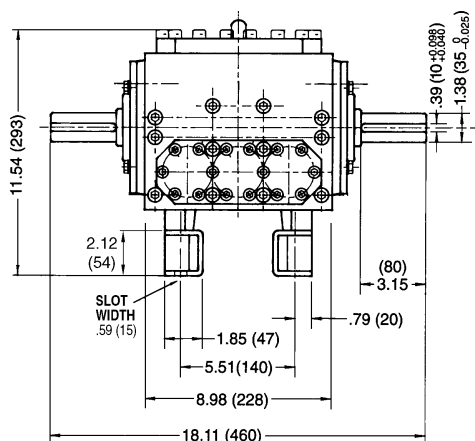
ITEM	PART NUMBER				DESCRIPTION				QTY
	3821	MATL	3821K	MATL	3831	MATL	3831K	MATL	
2	34021	STL	34021	STL	34021	STL	34021	STL	Key (M10x8x70)
5	125753	S	125753	S	125753	S	125753	S	Screw, HH Sems (M8x25)
8	44542	AL	44542	AL	44542	AL	44542	AL	Cover, Bearing
9	815279	FBR	815279	FBR	815279	FBR	815279	FBR	Shim, Split 2-Pc
10	12398	NBR	12398	NBR	12398	NBR	12398	NBR	O-Ring, Bearing Cover - 70D
11	13296	NBR	13296	NBR	13296	NBR	13296	NBR	Seal, Oil, Crankshaft
15	29326	STL	29326	STL	29326	STL	29326	STL	Bearing, Roller
20	121467	TNM	121467	TNM	121467	TNM	121467	TNM	Rod, Connecting Assy (Incls: 21,22,23) [10/00]
21	126749	STCP R	126749	STCP R	126749	STCP R	126749	STCP R	Washer, Locking (M10)
22	126574	STCP R	126574	STCP R	126574	STCP R	126574	STCP R	Washer, Flat (M10)
23	122045	STZP	122045	STZP	122045	STZP	122045	STZP	Screw, HH (M10x55)
25	29325	FCM	29325	FCM	29325	FCM	29325	FCM	Crankshaft, Dual End (M48)
31	828710	—	828710	—	828710	—	828710	—	Protector, Oil Cap w/Foam Gasket
32	43211	ABS	43211	ABS	43211	ABS	43211	ABS	Cap, Oil Filler
33	14177	NBR	14177	NBR	14177	NBR	14177	NBR	O-Ring, Oil Filler Cap - 70D
34	126743	STCP R	126743	STCP R	126743	STCP R	126743	STCP R	Bolt, Eye (M12x1.75) (For Lifting Pump Only)
37	92241	—	92241	—	92241	—	92241	—	Gauge, Oil Bubble w/Gasket
38	44428	NBR	44428	NBR	44428	NBR	44428	NBR	Gasket, Flat, Oil Gauge - 80D
40	125753	S	125753	S	125753	S	125753	S	Screw, HH Sems (M8x25)
48	25625								

EXPLODED VIEW

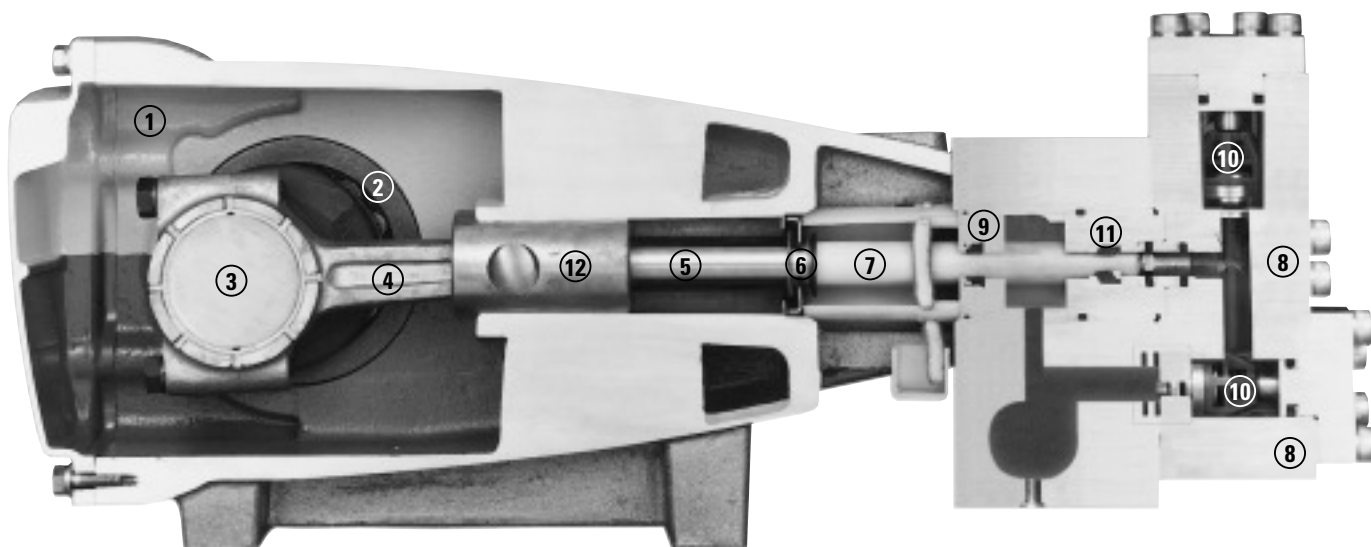


Models
Standard - 3821, 3831
Flushed - 3821K, 3831K
February 2009

	3821	MATL	3821K	MATL	3831	MATL	3831K	MATL		
174	701278	SS	701278	SS	701278	SS	701278	SS	Plug, Valve	6
176	701316	SS	701316	SS	701316	SS	701316	SS	Cover, Valve	2
177	87951	S	87951	S	87951	S	87951	S	Screw, HSH (M10x30)	32
185	701315	SSL	701315	SSL	701315	SSL	701315	SSL	Manifold, Discharge, Block-Style	1
188	701279	S	701279	S	701279	S	701279	S	Screw, HSH (M12x100)	12
196	701342	SS	701342	SS	701342	SS	701342	SS	Plug, Discharge (1" NPT) Not Shown	1
250	44516	NY	44516	NY	44516	NY	44516	NY	Protector, Shaft w/2 Screws, Lockwashers and Washers (Incl w/Pump)	1
255	34039	S	34039	S	34039	S	34039	S	Assy, Direct Mount	1
260	92674	STZP	92674	STZP	92674	STZP	92674	STZP	Mount, Rail Assy (Incls: 34018)	1
275	990013	STL	990013	STL	990013	STL	990013	STL	Hub, "B", (35mm Keyway) [See Drive Packages Tech 003]	1
278	80540	ZP	80540	ZP	80540	ZP	80540	ZP	Screw, HH (M12x100) (Rail Adjusting Screw)	1
279	30278	STZP	30278	STZP	30278	STZP	30278	STZP	Oiler (1 oz.) Not Shown	3
281	30967	—	30967	—	30967	—	30967	—	Glass, Oiler Not Shown	3
282	10069	NBR	10069	NBR	10069	NBR	10069	NBR	Gasket, Oiler Not Shown	3
283	34314	—	34314	—	34314	—	34314	—	Kit, Oil Drain (3/8" X 48")	1
290	6124	—	6124	—	6124	—	6124	—	Gasket, Liquid (3 oz.)	1
299	901401	SSL	—	—	901400	SSL	—	—	Head, Complete, Block-Style	1
300	70169									



Models 3821, 3821K, 3831, 3831K



- 1 Die cast aluminum **crankcase** means high strength, lightweight, and excellent tolerance control.
- 2 Oversized crankshaft **bearings** provide extended bearing life and pump performance.
- 3 Chrome-moly **crankshaft** provides unmatched strength and surface hardness for long life.
- 4 Matched oversized high strength TNM **connecting rods** noted for superior strength and bearing quality.
- 5 Special stainless steel **plunger rods** with high strength crossheads for longevity and corrosion resistance.

- 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 316 SSL block-style for long-term continuous-duty and corrosion resistance.
- 9 **Standard Models:** Lo Pressure Seals and V-Packings are completely lubricated and cooled by the liquid being pumped.

- 9 Special **Flushed Inlet Manifold** permits external flush for added cooling with high temperature liquids and lubrication with low lubricity liquids.
- 10 Stainless steel **valves, seats and springs** provide corrosion-resistance, ultimate seating and extended life.
- 11 Specially formulated, CAT PUMP exclusive, **V-Packings** offer unmatched performance and seal life.
- 12 **Crossheads** are 360° supported for uncompromising alignment.



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