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OIS DIESEL DRIVEN DEUTZ KERR TRIPLEX PUMP 2.25'' & 2.75'' PLUNGERS



SKID MOUNTED, 2.3 M X 2.8 M.

GW 3.5 TONS

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BF4M2012C Power Pack, Tier II, 131 Hp @ 2500 Rpm

BOM Description EPA Level II, Mechanical, new

6305 Balanced Open Power Pack with Front Shroud on Skid Base TIER II

SAE 3 Flywheel Housing, SAE 10/11.5 Flywheel

T-18 Industrial Grade Transmission, 4 speed, with plate to lock out 4th gear, heavy duty clutch and disk plate with foot engage and disengage lever.

- 1st gear 6.32 to 1 with a belt 8" driver and 37.5" driven 8V Carlie belt produces 89 RPM, *locked out due to minimum speed of 100RPM on pump due to rod lubrication.*
- 2nd gear 3.09 to 1 with a belt 8" driver and 37.5" driven 8V Carlie belt produces 173 RPM on pump with engine output of 2500 RPM
- 3rd gear 1.69 to 1 with a belt 8" driver and 37.5" driven 8V Carlie belt produces 315 RPM on pump with engine output of 2500 RPM
- Please note we have found the pump life is greatest if ran no faster than 315 RPM. We have locked out forth gear due to overspeeding potential of the pump.
- Transmission connected to 2.5" drive line connected with an H-Block style setup with two steel universal joints.

12 Volt Electrics – Alternator and Starter

12 Volt Heavy Duty battery with disconnect switch



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Drive Line - new

8" Driver 8V-4 Grove drive sprocket with 2.5" E style bushing
37.5" Driven 8V-4 Grove drive sprocket with 3.5" D style bushing
Carlie 8V-1250 single wedge, 4 groove, style belt
2 – Heavy duty 2.5" pillow block with jack screws, and grease zerks
Belt guard, per OSHA Standards

Fuel System

100 Gallon Single wall fuel tank

- Fuel Gauge
- Fuel Supply, piped to engine
- Fuel Return, piped to engine
- Fuel Drain
- Secondary containment, open top, with drain

Pump

Kerr KA3500

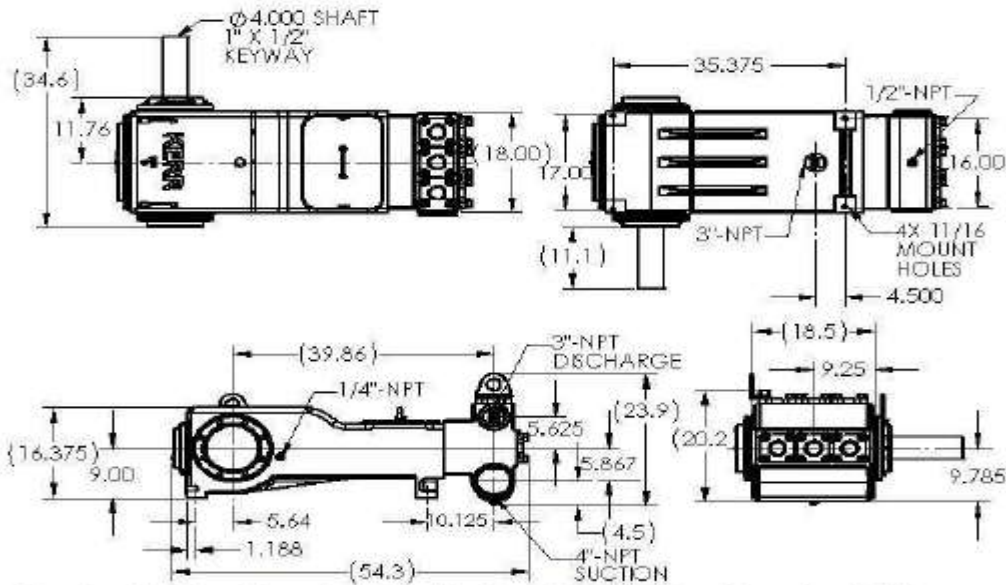
- Triplex, plunger style, 2.25", rated at 1741 PSI, 120 bar
- Stroke: 5"
- Pump weight: 1900 LBS
- Fluid cylinder pressure rating: 1741 PSI, 120 bar
- Maximum RPM: 350
- Minimum RPM: 100
- Suction: 4", with 5" y-strainer and 4" bypass plug
- 4" suction stabilizer chamber with air bleed valve
- Discharge: 3" with reducer to 2", 2" 2000 PSI Hammer Union, flapper check, 2000 PSI rated, 2" ball valve, 2000 PSI rated, 2" NPT discharge
- 3" Murphy 2000 PSI rated pressure gauge with mechanical high/low pressure shutdown. Wired to engine.
- Plunger packing lubricator with 2000 PSI stainless steel lines, 6 drops per minute minimum.
- Pony rod/plunger connection cover
- 2.5" Drain elbow with extension
- 1" air bleed off valves, low pressure
- 2" Pulsation Dampener, 2000 PSI rated, nitrogen filled to 80 % of 1300 PSI
- 2" 1600 PSI Mercer Popoff valve piped to skid base with support bracket.
- 1" 2000 PSI rated drain valve, drain high pressure side of fluid and relieve pressure off flapper check.
- All high pressure piping to be schedule 80 or greater.
- All ball valves to be 2000 PSI rated or greater

Pump Oil Cooler

- 12 VDC cooler fan thermosttically controlled.
- 3 GPM 12 VDC heavy duty pump
 - Draws from bottom of pump, pushes through cooler, back to top of pump
- Murphy 160 F close to initiate pump and fan
- Hard mounted to skid, free of pump

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* ~ General Dimensions Only - Consult Factory for Authorized Drawings ~ Threaded or Flanged Connections Available
 * ~ Flanges Available Only With Steel or Stainless Steel Fluid Ends

POWER END SPECIFICATIONS

Stroke = 5.000" / 127 mm
 Rated Power at 350 RPM = 140 BHP / 105 KW
 Direction of Rotation = Top of input shaft towards fluid end
 Shipping Weight = 1900 lbs / 864 kilos
 Crankcase Material = Cast Ductile Iron

Maximum Speed = 385 RPM
 Minimum Speed = 100 RPM
 Number of Plungers = 3
 Oil Capacity = 24 quarts / 22.75 liters
 Oil Type = Petroleum per AGMA 5EP (ISO 220)
 or Synthetic per SAE 75W-90 (ISO 100)

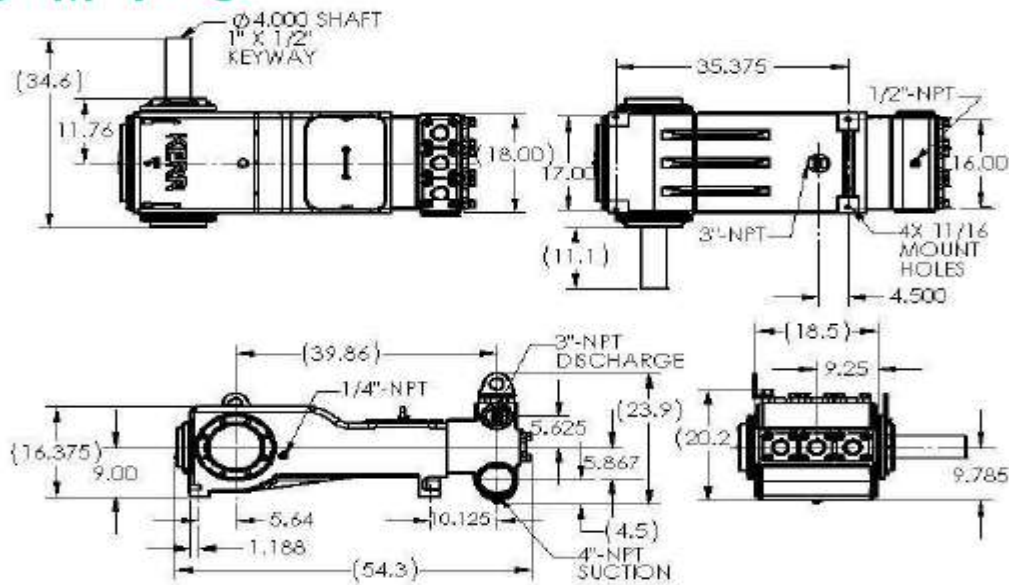
KA-3500 TRIPLEX PLUNGER PUMP

PLGR DIA. INCHES	MAX PRESS PSI	DISP GAL PER REV	DISPLACEMENT																	
			100 RPM		140 RPM		175 RPM		210 RPM		245 RPM		280 RPM		315 RPM		350 RPM		385 RPM	
			GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
2.250	2100	0.2582	25.8	880	36.1	1240	45.2	1550	54.2	1880	63.3	2170	72.3	2480	81.3	2790	90.4	3100	99	3400
2.500	1765	0.3187	31.9	1093	44.6	1531	55.8	1913	66.9	2296	78.1	2679	89.2	3061	100.4	3444	111.6	3827	123	4209
2.750	1458	0.3857	38.6	1323	54.0	1852	67.5	2315	81.0	2778	94.5	3241	108	3704	121	4167	135	4630	148	5093
3.000	1225	0.4590	45.9	1574	64.3	2204	80.3	2755	96	3306	112	3857	129	4408	145	4959	161	5510	177	6061
3.250	1044	0.5387	53.9	1848	75.4	2587	94.3	3233	113	3880	132	4527	151	5174	170	5820	189	6467	207	7114
3.500	900	0.6247	62.5	2143	87.5	3000	109	3750	131	4500	153	5250	175	6000	197	6750	219	7500		N/A

KERR PUMPS

KA-3500

Continuous Duty
Ductile Iron Crankshaft



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POWER END SPECIFICATIONS

Stroke = 5.000" / 127 mm
Rated Power at 350 RPM = 102 BHP / 76 KW
Direction of Rotation = Top of input shaft towards fluid end
Shipping Weight = 1900 lbs / 864 kilos
Crankcase Material = Cast Ductile Iron

Maximum Speed = 350 RPM
Maximum API Speed = 310 RPM
Number of Plungers = 3
Oil Capacity = 24 quarts / 22.75 liters
Oil Type = Petroleum per AGMA 5EP (ISO 220)
or Synthetic per SAE 75W-90 (ISO 100)

KA-3500 TRIPLEX PLUNGER PUMP

PLGR DIA. INCHES	MAX PRESS PSI	DISP GAL PER REV	DISPLACEMENT																	
			100 RPM		150 RPM		200 RPM		225 RPM		250 RPM		275 RPM		310 RPM		325 RPM		350 RPM	
			GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
2.250	1743	0.2582	25.8	886	38.7	1328	51.6	1771	58.1	1993	64.5	2214	71.0	2435	80.0	2745	83.9	2878	90	3100
2.500	1412	0.3187	31.9	1093	47.8	1640	63.7	2187	71.7	2460	79.7	2733	87.7	3007	98.8	3389	103.6	3553	112	3827
2.750	1167	0.3857	38.6	1323	57.9	1984	77.1	2646	86.8	2977	96	3307	106	3638	120	4101	125	4299	135	4630
3.000	980	0.4590	45.9	1574	68.8	2362	91.8	3149	103	3542	115	3936	126	4330	142	4881	149	5117	161	5510
3.250	835	0.5387	53.9	1848	80.8	2772	108	3895	121	4157	135	4819	148	5081	167	5728	175	6005	189	6407
3.500	720	0.6247	62.5	2143	93.7	3214	125	4286	141	4821	156	5357	172	5893	194	6643	203	6964	N/A	N/A