

Corken Plant Pumps



52IEG

Reliable, time tested and proven, the best plant pump in the industry...

Floating rotor and hydraulically actuated vanes.

CORKEN

Note: Add -103 to the model number to indicate the complete unit; pump, baseplate, motor slide base, belts and pulleys, with belt guard.

Stock units are setup at 780 RPM

Motors should be ordered separately - 1750 RPM, explosion proof, three phase or single phase.

Bare Pumps				
Part Number	Inlet Connection	Outlet Connection	Weight	Recommended Motor Size
52IEG	2"	2"	132 lbs	5 HP ⁽¹⁾
Z3500HG	3"	3"	140 lbs	10 HP ⁽¹⁾
Z4500HG	4" ANSI RF Flange	3" ANSI RF Flange	261 lbs	10 HP ⁽¹⁾

(1) Explosion Proof Motors, if required, should be ordered separately. Electrical options include Voltage & Phase Rating.

Complete Pump, Base & Motor Assembly				
Part Number	Inlet Connection	Outlet Connection	Weight	Installed Motor
52IEG-103	2"	2"	422 lbs	(1)
Z3500HGAMT-103-10HP	3"	3"	424 lbs	10HP
Z4500HGASP-103-25HP	4" ANSI RF Flange	3" ANSI RF Flange	1028 lbs	25HP
FF150CD6A-101-14	1 1/2" ANSI RF Flange	1" ANSI RF Flange	396 lbs	10HP
FF150CD6A-101-14-7.5HP			396 lbs	7.5HP (2)

(1) Stocked without motor. Motor can be sized and installed before shipping. Contact our sales team for assistance.
 (2) Use 7.5 HP motor when electrical service is limited.



Corken Bulk Truck and Transport Pumps

Controlling thrust loads and cavitation are critical for extended pump life. The new Corken Z pump thrust bearing design is rated up to 4000 lb. of thrust. Z pumps last longer and need service less often because of their new materials and design. You can hear the quiet superiority of the Z pump. It is easy to switch to a Z pump... no piping changes. And the best warranty in the business. Now is the time to step up to Corken quality.

Bulk Truck/Bobtail Pump

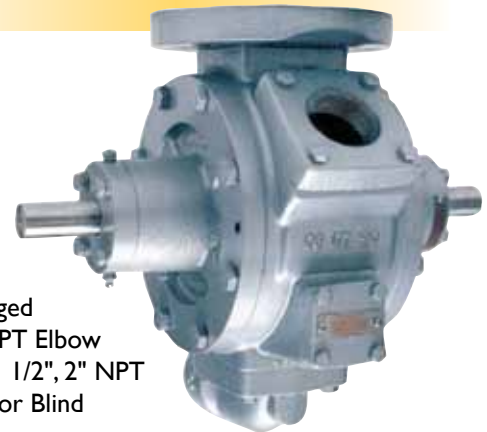
The Z3200 is a truck pump that is typically used on delivery trucks requiring capacities of 63 to 121 GPM. The Z3200 is designed with 300 lb. ANSI flanges for maximum strength. The belly-mount flange design minimizes cavitation and increases pumping efficiency.

Transport Pump

The Z4200 is a truck pump used on transports requiring capacities of 200 to 400 GPM. It is designed with 300 lb. ANSI flanges for maximum strength. The belly-mount flange design minimizes cavitation and increases pumping efficiency.

Bulk Truck/Bobtail Pump

The Z2000 is a foot-mounted, sliding vane, pump designed for bulk delivery trucks requiring 41 to 85 GPM flow capacity. The pump is securely mounted on a steel frame fixed to the truck's chassis and is piped from the internal valve on the truck's barrel.



Inlet: 3" Flanged
Outlet: 2" NPT Elbow
Auxil. Inlet: 1 1/2", 2" NPT
or Blind

Z3500HG



Inlet: 4" Flanged
Outlet: 2" Dual NPT

Z4500HG



Inlet: 2" NPT
Outlet: 2" NPT

Z2000



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Kit No.	2904X2		3109X1	2905X5	2906X2		2907X3	
For Pump Model	521E	522E, T522E, TR522E	T522G, TR522G	T722G, TR722G	I021E, F1021E	I022E, F1022E	F1521F	F1522F, T1522F, TR1522F
Seal Assembly (Qty)	1769XRA (2)		1769XRA (2)	1769XRA (2)	1769XRA (2)		1769XRA (2)	
Bearings (Qty)	2754X (2)		2754X(2)	2754X(2)	2754X (2)		3209	
Outer Race	-	-	-	-	-	-	2754 (2)	
Thrust Bearing	-	-	-	-	-	-	-	
Grease Seals (Qty)	1358 (2)		1358 (2)	1358 (2)	1358 (2)		1358 (2)	
Grease Seal Thrust	-	-	-	-	-		2014	
Blades / Vanes (Qty)	1168-7 (10)		4000 (6)	3981 (6)	1308-9 (10)		3477 (6)	
Blade/Vane Driver	-	-	-	-	-	-	-	-
Sideplates (Qty)	1163-2 (2)		3932 (2)	3932 (2)	1209-1 (2)		3476R, 3476L	
Case O- Ring (Qty)	2-261A (2)		2-261A (2)	2-261A (2)	2-268A (2)		2-268A (2)	
Inlet Flange O-Ring	2-234A	?	?	-	** 2-245A, 2-249A		-	-
Outlet Flange O-Ring	2-234A	?	?	2-234A	** 2-245A, 2-249A		-	-
R Valve Cap O-Ring	2-224A		?	-	2-228A		-	-
RV Adj Screw O-ring	2-112A		?	-	2-112A		-	-
RV Flange O-Ring	-		?	-	-		2-245A, 2-249A, 2-234A, 2-238A	
Cam / Liner	* 1162-2		?	* 4192	* 1201-2 (10)		* 1792-1	
Rotor & Shaft	* 11661X1R	* 11661X2R		* 3983X2R	* 12081X1R	* 12081X2R	* 3350X1R	* 3350X2R

* Items Not included in Kit

** 2 pieces each 3" standard & 4" optional. Flange O-Rings are included with kit 2906X2

Kit No.	3193X1	3195X1	3195X2	3197X1
For Pump Model	Z2000	Z3200, ZH3200	Z3500	Z4200, Z4500
Seal Assembly (Qty)	4431XA2 (2)	4431XA2 (2)	4431XA2 (2)	4464XA2 (2)
Roller Bearing (Qty)	2754X (2)	2754X (2)	2754X (2)	4460X (2)
Outer Race	-	-	-	-
Thrust Bearing (Qty)	4432 (2)	4432 (2)	4432 (2)	4453 (2)
Thrust Bearing Mtg Ring (Qty)	4435 (2)	4435 (2)	4435 (2)	4454 (2)
Grease Seals (Qty)	4441 (2)	4441 (2)	4441 (2)	4463 (2)
Blades / Vanes (Qty)	4428 (6)	4232 (6)	3936 (6)	4448 (6)
Blade/Vane Driver (Qty)	4262X (3)	4262X (3)	5554X (2)	4449X (5)
Sideplates (Qty)	*4427 (2)	* 4231 (2)	* 3938 (2)	* 4446 (2)
Case O- Ring (Qty)	* 2-261A (2)	* 2-262A (2)	* 2-268A (2)	* 2-270A (2)
Inlet Flange O-Ring	2-231A	-	* 2-259A	-
Aux Inlet Flange O-Ring	-	-	-	2-234A
Outlet Flange O-Ring (Qty)	2-231A (2)	2-234A (2)	* 2-245A	2-231A
R Valve Cap O-Ring	2-224A	2-224A	2-228A	2-234A
Bearing Cap Shim (0.002) (Qty)	4439 (8)	4439 (8)	4439 (8)	4458 (8)
Bearing Cap Shim (0.010) (Qty)	44391 (2)	44391 (2)	44391 (2)	44581 (2)
Bearing Cap Shim (0.020) (Qty)	44392 (2)	44392 (2)	44392 (2)	44582 (2)
Shaft Key	2270	2270	2270	4459
Cam / Liner	*4414	* 4242	* 5539	* 4443
Rotor & Shaft	4430X2R	* 4495X2R	* 12081X6R	* 4444X2R
* Items Not included in Kit				
Rebuild Kit No.	3194X1	3196X1	3196X2	3198X1
For Pump Model - includes all repair kit items plus sideplates & cam/liner	Z2000	Z3200, ZH3200	Z3500	Z4200, Z4500

CORKEN CORO-VANE LPG/NH3 REPAIR KITS

Corken Autogas Pumps

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The Corken Autogas Pump achieves new levels of performance with higher flow at high differential pressures, non-pulsating and quiet transfer, longer pump life and a design that is easy to repair. The pump is also versatile enough to be used in like applications such as cylinder filling, vaporizer feeding or bulk transfer.



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Frame mount shown
C-Face mount also available.

FF-150 Coro-Flo Model

Model No	Description	Inlet	Outlet	RPM	Working Pressure	Differential Pressure
FF075	Bare pump	1 1/2" ANSI 300# RF Flange	1" ANSI 300# RF Flange	3450	400 psig	150 psig
FF075CD6A-101-14(213)	Pump on direct drive mount 213T baseplate - no motor					
FF075CD6A-101-14-7.5 HP	Pump on direct drive mount baseplate with 7.5 hp motor					
FF150¹²³	Bare pump					250 psig
FF150CD6A-101-14 (184) ¹²³	Pump on direct drive mount 184T baseplate - no motor					
FF150CD6A-101-14 (213) ¹²³	Pump on direct drive mount 213T baseplate - no motor					
FF150CD6A-101-14 ¹²³	Pump on direct drive mount 215T baseplate and 10 HP motor					
HDPFF075-1P75¹³⁴	Pump on direct drive mount with bypass and 7.5 HP motor. Includes Variable Frequency Drive					
HDPFF075-3P75¹³	Pump on direct drive mount with bypass and 7.5 HP motor.					

Notes

- (1) All pumps require companion flange kit (part no 6133X1) which includes bolts, nuts, flexitalluc gaskets and flanges
- (2) Use B166B-CAUY bypass with 100 - 225 psi spring range (150 max allowed per NFPA 58)
- (3) Switch not included. Requires 3 phase explosion proof switch with magnetic starter
- (4) Variable frequency drive converts single phase to three phase service, also has slow start up function which helps nuisance excess flow closures and allows for switch without magnetic starter

Corken Coro-Flo Pumps for Dispensing Units



The world's most popular propane gas pump, the Corken Coro-flo, achieved its wide acceptance because it is long-lived, dependable, quiet, impossible to over-work, easy to repair and simple to maintain.

C Model features.....

- Only one moving part!
- Smooth, pulseless flow
- No rubbing parts
- Floating impeller
- Ductile iron case
- Hydraulically balanced mechanical seal
- Replaceable shaft sleeve under mechanical seal
- No coupling necessary
- No bearing in pump!
- Adjusted for wear
- Compact construction
- Motor overload in switch
- Automatic drain on motor
- Heavy duty motor

C12SM

Coro-Flo 'C' Model

Model No.	C-Models			On-Off Switch	FNPT Inlet	FNPT Outlet	Gal./Min. at 50lbs. Differential
	HP	PH	Volts				
C-10	1				1 1/4"		6.5
C-12	1	1	115/230	Yes		1"	15
C-13	2				1 1/2"		22
C-14	3	3	230/460	No			32

Note: Always use a B166 bypass valve with C & F model pumps... usually a B166-3/4" with C/F10, C/F12 and a B166-1" with C/F13 and C/F14



F models pumps are similar to C models but without a motor.

Typically, these pumps are mounted on a baseplate and close coupled to a motor of your choice.

Coro-Flo 'F' Model

Model No.	FNPT Inlet	FNPT Outlet	Gal./Min. at 50lbs. Differential
F-10 *	1 1/4"		6.5
F-12 *		1"	15
F-13 *	1 1/2"		32

*To order with a baseplate use -101. Example F12-101

F12CD

The Coro-Vane® pump was designed for higher flow and head conditions, pumping thin liquids and liquefied gases.

The C51A is the smallest of the Corken Coro-Vane® sliding vane pumps. It is designed for small LPG and NH3 applications needing very low flow. It is a very compact and economical pump and can be used industrially as well.

Flow range: 1–6 gpm (3.8–22.7 L/min)

Maximum differential pressure:
125 psi (8.6 bar)

Maximum driver size: 2 hp (1.5 kW)
NPT or ANSI flanges

C51 UL listed for use with LPG



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Part Number	Description	Inlet Connection	Outlet Connection	Weight
C51A	Coro Vane Pump w/Close coupled 1/2 HP Motor	1"	3/4"	50 lbs

Corken Coro-Flo and Blackmer Pump Repair Parts

Corken Coro-Flo Pump Repair Parts - C & F Models

Pump	Seal Kit	Brass Impeller	C Model Motors	Motor HP
C10/F10	113CXA	1003-0	2556	1
C12/F12	113CXA	1003-2	2556	1
C13/F13	113CXA	1003-3	4261	2
C14/F14	113CXA	1003-4	2557'	3

Notes:
 1) C model motors are single phase, except for the C14-2557-3HP
 2) You must order the Corken motor for replacement on C pumps.
 The motor shaft is drilled where the seal pin is placed.



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BLACKMER PUMP REPAIR KITS - REPAIR PARTS

Blackmer Pump Repair Kits

Pump Model	New Maintenance Kit	New Rebulid Kit
LGFI, LGFIP	898994	--
LGL- I 1/4	898976	899077
LGRLF- I 1/4	898976	99076
LGL- I 1/2	892976	899078
LGLD2E	898979	899020
LGLD3E	898981	899081
TLGLF3	898980	899080
LGLD4A/TIGLF4A	898922	899022

Notes:
 Blackmer **Maintenance Kits** include; discs, vanes, push rods, o-rings, gaskets, seals, and bearings.
 Blackmer **Rebuild Kits** include; all maintenance kit parts, plus liner, liner key, bearing locknut, rotor & shaft.

Common Repair Parts for Blackmer Pumps

Parts	LGF I	LGF I 1/4	LGLD2E	LGLD3E	TLFLF3	TLGLF4A
Seals	332920	333045	334439	335225	331652	332050
Vanes	092913	093088	091419	095131	095132	092019
Push Rods	--	123076	123905	125105	121607	122005
Bearings	903405	903114	903156	903166	903156	903172
Liner	--	183004	184405	185111	185101	182000
Disc	--	063075	064412	065112	065121	062039
Rotor and Shaft	262901	4-263076 8-262300	264443	265149	265147	262041