BULK PLANT, TRUCK, & TERMINAL EQUIPMENT

Pumps, Compressors, & Bypass Valves



Blackmer Cylinder Filling Pump

LGF1 FILL STATION PUMP

Excellent for small fill stations, vaporizer installations, and low-capacity transfer.

- Two pump capacities available
 - 10GPM or 15GPM
- Complete kit includes explosion proof motor & switch
- Integral bypass valve and safety relief valve (circulates back to pump inlet)

8-gallon capacity is best suited for cylinder and small motor fuel fill systems

13-gallon capacity is excellent for motor fuel fill systems

RMI Part No.		Capacit	y (GPM)	Inlat/	Motor & Electrical	Dumman
Pump, Moto & Switch Assembly	Pump Only	50lb Diff. 100lb Diff.		Inlet/ Outlet	Service*	Bypass Valve
LGF1-1HP	LGF1	8	4.4	1"	1HP, 115/230V, 1PH	Built-In
LGF1P-1.5HP	LGF1P	13	8	1"	1.5HP, 115/230V, 1PH	Built-In
LGF1-1HPV**	LGF1	8	4.4	1"	1HP, 115/230V, 1PH	Built-In
LGF1P-1.5HPV**	LGF1P	13	8	1"	1.5HP, 115/230V, 1PH	Built-In



^{** &}quot;V" designates motor equipped with condensation drain

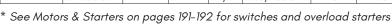


LGF1 SERIES

LGRLF FILL STATION PUMP

Economical large capacity flange-mounted pump assembly for motor fuel and large cylinder fill operation. Provides greater flow capacity while maintaining high differential pressure. Features removable cavitation suppression liner for longer pump life.

RMI Part No.			Inlet/	nlet/ HP	S	Capacity (GPM)		Max.	
Pump Only	Motor*	Bypass	Outlet	пР	Service	50lb	100lb	Diff. Pr.	
	EMC-2	BV-3/4	1-1/4"	2"	115/230 1PH	16	14	80#	
LODIE 1 1/4	EMCT-2			2"	230/460 3PH	16	14	80#	
LGRLF-1-1/4	EMC-1.5**			1-1/2"	115/230 1PH	15	12.5	50#	
	VXM051542			1-1/2"	230/460 3PH	15	12.5	50#	





LGL & LGLF MEDIUM CAPACITY PUMP AND BASE ASSEMBLY

Excellent for small transfer jobs and multiple scale fill operations.

- Integral safety relief valve (circulates back to pump inlet)
- Assembly includes pump, mounting base, coupling, and guard (everything but the motor & switch)
- Cavitation suppression liner

Must specify motor frame size when ordering

RMI Part No.		Inlat/ AAatau		Capacit	Approx.	
Base & Pump Assembly	Pump Only	Inlet/ Outlet	Motor Size *	50lb	100lb	Max Diff. (lbs.)
IOL 1 1/4 DAA	101 11/4	1-1/4"	2 HP	21	18	60
LGL-1-1/4 -DM LGL-1-1/4	1-1/4	3 HP	21	18	120	
LGL-1-1/2-DM	LGL-1-1/2	1-1/2"	3 HP	33	29	80

^{*} See Motors & Starters on pages 191-192 for proper motor, switch, and bypass valve part numbers





^{**} Can be ordered with condensation drain



Blackmer Bulk Plant Pumps & Compressors

LGL LARGE FILL SYSTEM PUMPS

High-capacity pumps for large multiple scale systems and medium liquid transfer systems for loading transports and delivery trucks.

- Integral safety relief valve
- Replaceable cylinder liner & end disc for inexpensive rebuilding
- Assemblies include pump mounting base, v-belts, guards, and sheaves (everything but motor)
- Motors available size determined by pressure differential and GPM requirements. Sheave sizes are determined by RPM requirements.
- Cavitation suppression liner

RMI Part N	о.	Inlet*	Outlet*	Drive	Capacity @ 640 RPM	100lb Dif.	
Pump, Base & Drive Assembly	Pump Only	inier	Outlet	Drive	50lb Dif.	IOOID DIT.	
LGL2-VB	LGLD2E	2" NPT	2" NPT	V-Belt	67 GPM	157 GPM	
LGL3-VB	LGLD3E	3" NPT	3" NPT	V-Belt	133 GPM	112 GPM	
LGLD4B- VB	LGL4	4" WELD	3" WELD	V-Belt	270 GPM	220 GPM	





LGL-V SERIES

LGL2 SERIES

EBSRAY REGENERATIVE TURBINE PUMPS

The Ebsray RC Series Regenerative Turbine Pumps are designed and precision built for highpressure transfer of LPG, Autogas, propane, and butane. The secret to the success of these pumps is the innovative impeller design, which optimizes hydraulic performance resulting in high differential pressures even at low flow rates, a critical consideration for Autogas applications.

RMI Part No.	Flow Rate (GPM)	Max Differential Pressure	Hose Qty	Inlet	Outlet
RC20	16	203	1	DN 25/1" NPT (F)	DN 25/1" NPT (F)
RC25	28	203	2	DN 25/1" NPT (F)	DN 25/1" NPT (F)
RC40	53	203		1-1/2" NPT Flanged to suit 1-1/2" ANSI Class 300 and DN40 DIN PN40	1" NPT Flanged to suit 1" ANSI Class 300 and DN25 DIN PN40



RC20 SERIES

OIL-FREE GAS COMPRESSORS

High performance for liquid transfer and vapor recovery of propane, butane, and other liquefied gases.

- Design improvements promote longer service life and efficient performance
- Vapor recovery from unloading operation provides significant savings
- Durable construction and simplified parts installation make compressor field serviceable

RMI Part N	lo.	Capacity	Motor	Typical F	Pipe Size
Complete Compressor Transfer Unit*	Compressor & Flywheel Only	Range (GPM)	Horse Power	Vapor	Liquid
LB161-LU	LB161-CO	45-95	3 – 7.5	1-1/4"	2"
LB361-LU	LB361-CO	115-205	7.5 – 15	2"	3"
LB601-LU	LB601-CO	240-365	15 - 25	2-1/2"	4"
LB942-LU	LB942-CO	360-650	20 - 50	3"	6"

^{*}Transfer unit includes compressor, gauges, base, piping, strainer, 4-way valve, liquid trap, belt guards, and sliding base (motor not included)



LB SERIES

COMPRESSOR REPAIR KITS

Compressor	RMI Part No.					
Model No.	Kit Top End	Kit Intermediate				
LB161-LU	792229	792230				
LB361-LU	793229	793230				
LB601-LU	794237	794238				



^{*}Weld connection optional



Blackmer Pumps for Mobile Applications

LGL SERIES TRUCK PUMPS

Excellent pump for bobtails and transports, the standard workhorse pump.

- LGLD2E has double shaft extension permitting left- or right-hand PTO
- LGLD3E has been engineered for a high flow and increased durability
- Integral safety relief valves
- Replaceable cylinder liner and end disc for fast and inexpensive rebuilding
- Cavitation suppression liner

		Capacity -	640 RPM	Capacity - 700 RPM		
RMI Part No.	Inlet/Outlet	50 lb Dif.	100 lb Dif	50 lb Dif.	100 lb Dif.	
LGLD2E	2" WELD/NPT	67 GPM	57 GPM	-	-	
LGLD3E	3" WELD/NPT	133 GPM	112 GPM	160 GPM	150 GPM	
LGLD4B	4" WELD/NPT	284 GPM	238 GPM	317 GPM	269 GPM	



LGLD3 SERIES

TLGLF3 TRUCK PUMP

Excellent pump for the modern large capacity bobtail truck.

- 3" Direct Flange Mounting
- Double shaft extension is suitable for right- or left-hand PTO
- Pump has auxiliary 2" intake for emergency pumping
- Cavitation suppression liner

RMI Part No. Intake		Auxi	liary	Capacity	, 650 RPM	Capacity, 870 RPM		
K/WI Part No.	Intake	Intake	Outlet	50 lb Dif.	100 lb Dif.	50 lb Dif.	100 lb Dif.	
TLGLF3	3" Flange	2" NPT	2" NPT	93 gpm	83 gpm	120 gpm	129 gpm	
300/0300		3" Flange Mounting Gasket for TGLF3						



TLGF3 SERIES

TLGLF4B TRANSPORT TRUCK PUMP

The most common transport pump on the road, ideal intake condition assures maximum pumping rate.

- 4" Direct flange mounting
- Auxiliary 3" intake for emergency unloading of another tank or truck
- Rated up to 380GPM
- Integral safety relief valve
- Double shaft extension is suitable for right or left hand
- Cavitation suppression liner

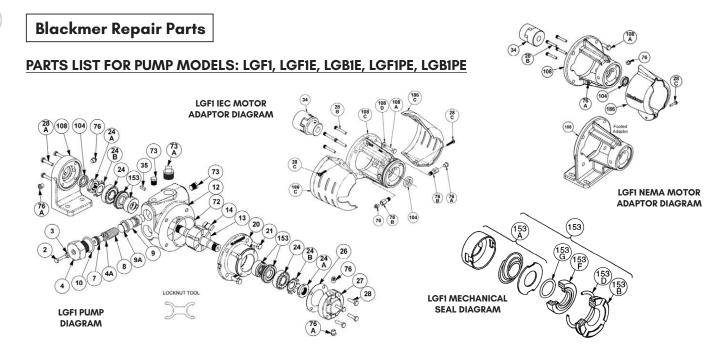
RMI Part No. Intake		Auxiliary		Capacity	, 650 RPM	Capacity, 870 RPM		
K/WI Part No.	intake	Intake	Outlet	50 lb Dif.	100 lb Dif.	50 lb Dif.	100 lb Dif.	
TLGLF4B	4" Flange	3" NPT	2" NPT	250 gpm	245 gpm	380 gpm	350 gpm	
300/0400		4" Flange Mounting Gasket for TGLF3						



TLGLF4 SERIES







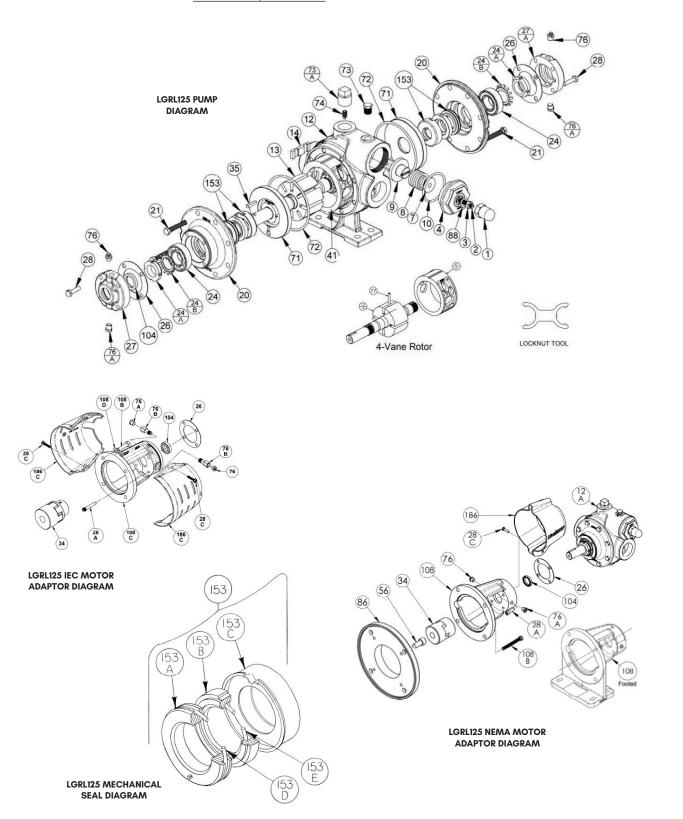
Ref No.	Description	Parts Per Pump	Part No.	Ref No.	Description	Parts Per Pump	Part No.
	PUMP	-			MECHANICAL SE	AL	
2	Adjusting Screw- Relief Valve	1	2 433905	153	Mechanical Seal Assembly	2	1 332920
3	Locknut - Adjusting Screw	1	2 922825	153A**	Jacket Assembly - Seal	2	**
4	Cover-R/V	1	412901	153B**	Stationary Seat (Steel)	2	**
4A	O-Ring - Spring Guide	1	1,2 711940	153D	O-Ring - Stationary Seat	2	711916
7	Spring Guide R/V	1	2 422901		(Buna-N)	2	
8	Spring - R/V	1	2 472901	153F**	Seal Face (Carbon)	2	**
9	Valve - R/V	1	2 452901	153G	O-Ring - Rotating (Buna-N)	2	711939
9A	Disc - R/V	1	2 442901		NEMA C-FACED MOTOR	ADAPTORS	
10	O-Ring - R/V Cover	1	1,2 701965	28B	Motor Adaptor Mounting Screws	4	920101
12	Cylinder -LGF1, LGB1	1	022914	28C	Guard Screw	1	920026
	Cylinder - LGF1P, LGB1P		022915		Coupling Half - Pump		906150
13	Rotor & Shaft Assembly, Six Vane	1	262907	34	Coupling Half - Motor 56C Coupling Half - Motor 143/145TC,	1	906151
13	(includes Ref. Nos 24A & 24B)	1	202707	34	184C	'	906147
14	Vane - Duravane (Std)	6	1,2 092913		Coupling Spider		906155
20	Head	1	032905		Motor Adaptor - Unfooted	_	832912
21	Capscrews -Head	4	920178	108	Motor Adaptor - Footed	1	833000
24	Ball Bearing	2	1 903405	108A	Capscrew - Motor Adaptor	4	920331
24A	Locknut - Bearing	2	903531	186	Guard	1	804120
24B	Lockwasher - Bearing	2	1 903532		IEC MOTOR ADAP1	ORS	
26	Gasket - Bearing Cover	1	1 383075	28B	Motor Adaptor Mounting Screws	4	920101
27	Bearing Cover	1	043071	28C	Guard Screw	2	920026
28	Capscrews - Bearing Cover	4	920080		Coupling Half - Pump		906183
28A	Bracket Mounting Screws	4	920090	34	Coupling Spider	1	906176
35	Key - Shaft	1	1 909152		Coupling Half - Motor (IEC 90)		906186
72	O-Ring - Head	1	1 711941	76	Grease Fitting	1	317815
73	Gage Plug (1/4")	2	908198	76A	Grease Relief Fitting	1	701992
73A	Gage Plug (3/4")	1	908225	76B	Extension Coupling	2	701905
76	Grease Fitting	2	317815	104	Grease Seal	1	331934
76A	Grease Relief Fitting	2	701992	1001	Capscrew - Motor Adaptor to		222247
104	Grease Seal	1	1 331934	108A	Motor	4	920043
108	Mounting Foot - LGB1(P)E	1	832913	108C	"Motor Adaptor (IEC90 B14A)	1	832920
	Tool – Locknut		903090	1000	Includes Ref. Nos. 76, 76A, & 76B"	1	032720
	Kit - RV Maintenance		899094	108D	Washer	4	792094
	Kit - Maintenance (6-Vane)		898994	186C	Guard Half	2	804196

¹ Included in Maintenance Kit, 2 Included in RV Kit, ** Not available as separate repair parts





PARTS FOR PUMP MODELS: LGRL1.25, LGL1.25, LGL1.5, LGRLF1.25A, LGLF1.25A, LGLF1.5A







Ref No.	Description	Parts Per Pump	Part No.	Ref No.	Description	Parts Per Pump	Part No.
	PUMP				NEMA C FACE MOT		
	Cap-Relief Valve R/V	1	413200	12A	Casing without Feet - LG®LF1.25	1	013077
2	Adjusting Screw - R/V	1	433909		Casing without Feet - LGLF1.5		013377
5	Locknut-Adjusting Screw	1	922923	26	Gasket - Bearing Cover	1	383075
1	Cover- R/V	1	413076	28A	Motor Adaptor Mounting Screws	4	920101
7	Spring Guide-R/V	1	423955	28C	Guard Screw	1	920026
3	Spring-R/V (81-125 PSI)	1	471428	34	Coupling Half - Pump	1	906147
)	Valve-R/V	1	453077		Coupling Spider		906155
0	O-Ring-R/V Cover	1	1 711924		Coupling Half - Motor (56C)		906151
2	Casing with feet (1.25)	1	013075		Coupling Half - Motor (143TC,		
	Casing with feet (1.5)		013376		145TC, 184C)		906147
3	Rotor and Shaft Assembly, Eight Vane (with Ref. Nos 24A & 24B)	1	2 262300		Coupling Half - Motor (182TC, 184TC, 215C)		906146
4	Vane-Duravane	8	1 093088	56	Capscrews - Adapter Ring	4	920480
20	Head	2	033073		Mounting	·	720400
21	Cap screws-Head	16	920276	76	Grease Fitting	1	317815
24	Ball Bearing	2	1 903114	76A	Grease Relief Fitting	1	701992
24A	Locknut-Bearing	2	2 903534	86	Motor Adaptor Ring (182TC,	1	832914
24B	Lock washer-Bearing	2	1 903533		184TC, 215C)		771007
26	Gasket-Bearing Cover	2	1 383075	104	Grease Seal	1	331927
27	Bearing Cover-Inboard	0-1	043070	108	Motor Adaptor - Unfooted (Includes Ref. 76 & 76A)	1	832912
27A	Bearing Cover-Outboard	1	043071		Motor Adaptor - Footed (Includes		
28	Cap screws-Bearing Cover	8	920080		Ref. 76 & 76A)		833000
55	Shaft Key	1	1 909152	108B	Capscrews - Motor Adaptor	4	920331
11	Liner - LGRL(F)1.25 (8 Vane Only)	1	2 183019	186	Guard	1	804120
	Liner - LGL(F)1.25 (8Vane Only)		2 183020				
	Liner - LGL)F)1.5 (8 Vane Only)		2 183310	26	Gasket - Bearing Cover	1	383075
1	Disc	2	1 063075	28A	Motor Adaptor Mounting Screws	4	920101
'2	O-Ring-Head	2	1 701918	28C	Guard Screw	2	920026
73	Gage Plug (1/4")	1	908198		Coupling Half - Pump (for		
73A	Gage Plug (3/4")	1	з 908225	34	IEC100/112)	1	906182
' 4	Setscrew-Liner	1	922088		Coupling Spider (for IEC100/112)		906178
76	Grease Fitting	2	317815		Coupling Half - Motor (IEC100/112)		906180
'6A	Grease Relief Fitting	2	701992	76	Grease Fitting	1	317815
38	O-Ring-R/V Cap	1	1 701949	76A	Grease Relief Fitting	1	701992
04	Grease seal	1	1 331927	76B	Extension Coupling	2	701905
	Tool -Locknut		903090	104	Grease Seal	1	331927
	Kit- Maintenance		898976	108B	Capscrew - Motor Adaptor to	4	920044
	Kit-Rebuild LGRL(F)1.25(A) (8 Vane)		899076	IOOD	Motor	+	720042
	Kit-Rebuild LGL(F)1.25(A) (8 Vane)		899077	108C	Motor Adaptor (IEC 100/112 B14A)	1	832930
	Kit-Rebuild LGLR(F)1.5(A) (8 Vane)		899078		Includes Ref. Nos. 76, 76A, & 76B)		
	4-Vane Rotor/Shaft Pa	rts	-	108D	Washer	4	792094
7 /	Rotor & Shaft Assembly, Four Vane		0/707/	186C	Guard Half	2	804198
3A	(Includes Ref. Nos. 24A & 24B)	1	263076		MECHANICA		
4	Vane - Duravane	4	093088	153	Mechanical Seal Assembly	2	333045
IIA	Liner - LGRL(F)1.25 (4-Vane Only)	1	183003	153A	Stationary Seat (Hardened Steel)	2	
	Liner - LGL(F)1.25 (4-Vane Only)		183004	153B	Seal Face (Carbon)	2	**
	Liner - LGL(F)1.5 (4-Vane Only)		183301	153C	Jacket Assembly	2	**
77	Push Rod - LGRL(F)1.25	2	123004	153D	O-Ring - Stationary (Buna-N)	2	711916
	Push Rod - LGL(F)1.25		123076	153E	O-Ring - Rotating (Buna-N)	2	711915
	Push Rod - LGL(F)1.5		123401	2	Adjusting Screw- Relief Valve	1	2 43390
	Maintenance Kit - LGRL(F)1.25A (4-Vane)		898917				
-	Maintenance Kit - LGL(F)1.25(A) (4-Vane)		898918		1.1.11		
	Maintenance Kit - LGL(F)1.5(A) (4-Vane)		898919		ded in Maintenance Kits & Rebui	ld Kits	
	D-1		000017	2 Includ	ded in Rebuild Kits		

¹ Included in Maintenance Kits & Rebuild Kits

^{**}Not available as separate replacement part



899017

899018

899019

Rebuild Kit - LGRL(F)1.25A (4-Vane)

Rebuild Kit - LGL(F)1.25(A) (4-Vane)

Rebuild Kit - LGL(F)1.5(A) (4-Vane)

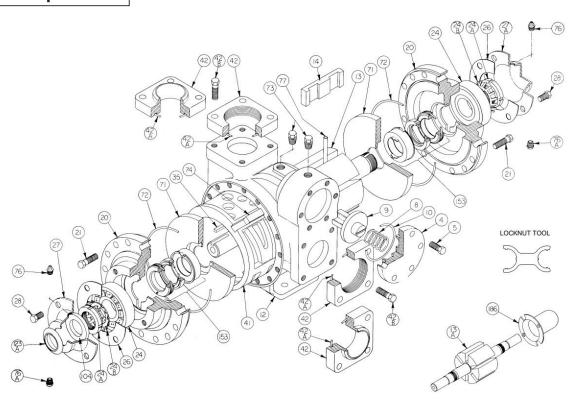
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² Included in Rebuild Kits

 $_{\rm 3}$ Ref. No. 73A: Older pumps may use a 1/4" plug (908198) or 1/2" plug



PARTS FOR MODELS LGLD2E, LGL2E, LGLD3F, LGL3F, LGLD3E, LGL3E



Ref. No.	Description	Parts per Pump	LGL2 Part No.	LGL3 Part No.
4	Cover-Relief Valve (R/V)	1	414401	415113
5	Capscrews-R/V Cover	6	920331	920331
8	Spring-R/V	1	1 471423	1 475135
9	Valve-R/V	1	454405	455129
10	O-Ring - R/V Cover	1	1 701919	1 701925
12	Casing	1	014405	015127
13	Rotor & Shaft Asy. LGL (Includes Ref. Nos. 24A & 24B)	1	264443	265149
13A	Rotor & Shaft Asy. LGLD 5 (Includes Ref. Nos. 24A & 24B)	1	2 264445	2 265148
14	Vane – Duravane (Std)	6	1 091419	1 095131
20	Head	2	034416	035128
21	Capscrews-Head (Size 2)	32	920351	-
	Capscrews-Head (Size 3)	40	-	920369
24	Ball Bearing	2	1 903156	1 903166
24A	Lock-Nut Bearing	2	2 903521	2 903523
24B	Lockwasher-Bearing	2	1 903522	1 903524
26	Gasket-Bearing Cover	2	1 383940	1 385125
27	Bearing Cover (Inboard) 3	1	041431	041815
27A	Bearing Cover (Outboard) 4	1	041433	041817
28	Capscrews-Bearing Cover	8-12	920285	920285

Ref. No.	Description	Parts per Pump	LGL2 Part No.	LGL3 Part No.
35	Key-Shaft, 1/4" Square	1	1,7 909209	1,7 909209
41	Liner	1	2 184405	2 185111
42	Flange - NPT	2	654401	655112
	Flange - Weld		654405	655102
42A	O-Ring-Flange	2	1 702004	1 702002
42B	Capscrew-NPT Flange	8	920384	920547
	Capscrew-Weld Flange		920351	920510
71	Disc	2	1 064412	1 065112
72	O-Ring-Head	2	1 702022	1 702041
73	Gauge Plug	2	908198	908198
74	Key-Liner	1	2,8 183991	2 185191
76	Grease Fitting	2	317815	317815
76A	Grease Relief Fitting	2	701992	701992
77	Push Rod	3	1,6 123909	1,6 125110
104	Grease Seal	1	1,3 331918	1,3 331908
123A	Dirt Shield	1	1,3 701480	_
186	Shaft Protector (LGLD Models Only)	1	341601	341801
	Tool - Locknut		903091	903091
	Kit - Maintenance		898979	898981
	Kit - Rebuild		899079	899081

⁸ Pumps before 1995 require liner key 184407



¹ Included in Maintenance Kit and Rebuild Kit.

² Included in Rebuild Kit

The following Applies to Double end Shaft Pumps (LGLD):

з Use two,

⁴ Use none

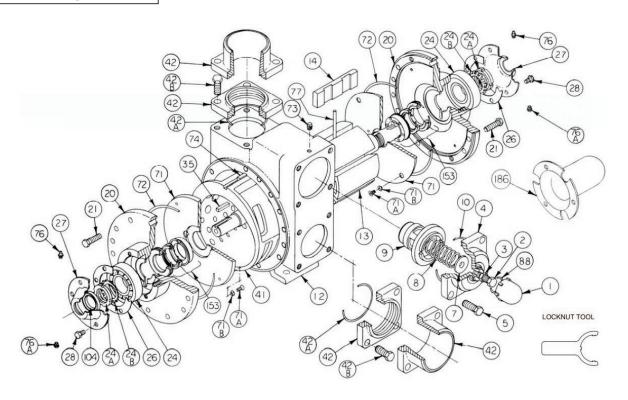
⁵ Double-Ended Rotor & Shaft

^{6 2&}quot; Push Rod is Metal 3" Is Composite

⁷ Pumps before April 2008 used Woodruff Key 909130, included in maintenance kits.



PARTS FOR MODEL LGLD4B



Ref. No.	Description	Parts Per Pump	Part No.
1	Cap-Relief Valve (R/V)	1	413957
2	Adjusting Screw - R/V	1	436310
3	Locknut-Adjusting Screw	1	432039
4	Cover- (R/V)	1	412001
5	Capscrews-R/V Cover	4	920663
7	Spring Guide-R/V	1	426355
8	Spring - R/V	1	1 472039
9	Valve-R/V	1	452001
10	O-Ring-R/V Cover	1	1 701946
12	Casing	1	012019
13	Rotor and Shaft Assembly, Dbl. End (Includes Ref. No. 24A & 24B)	1	2 262041
14	Vane-Duravane	6	1 092019
20	Head	2	032041
21	Capscrerws-Head	28	920532
24	Ball Bearing	2	1 903166
24A	Locknut-Bearing	2	2 903541
24B	Lockwasher-Bearing	2	1 903542
26	Gasket - Bearing Cover	2	1 385125
27	Bearing Cover-LGLD4B	2	041815
28	Capscrews-Bearing Cover	12	920285
35	Key-Shaft	1	1 909183

Ref. No.	Description	Parts Per Pump	Part No.
41	Liner	1	2 182000
	Flange-3" NPT	1-2	652012
42	Flange-3" Weld		652007
	Flange-4" Weld		652005
42A	O-Ring- NPT, Weld Flange	2	1 701937
42B	Capscrew-NPT Flange	8	920663
42b	Capscrew-weld Flange		920640
71	Disc	2	1 062039
71A	Machine Screw-Disc	8	2 920015
71B	Lock washer-Machine Screw	8	2 909634
72	O-Ring - Head	2	1 702039
73	Gauge Plug	2	908198
74	Key – Liner	1	2 182040
76	Grease Fitting	2	317815
76A	Grease Relief Fitting	2	701992
77	Push Rod - Composite - LGLD4B	3	1 122009
88	O-Ring - R/V Cap	1	1 701926
104	Grease Seal - LGLD4B	2	1 331908
186	Shaft Protector	1	341801
	Tool-Locknut		903092
	Kit-Maintenance		898922
	Kit-Rebuild		899022

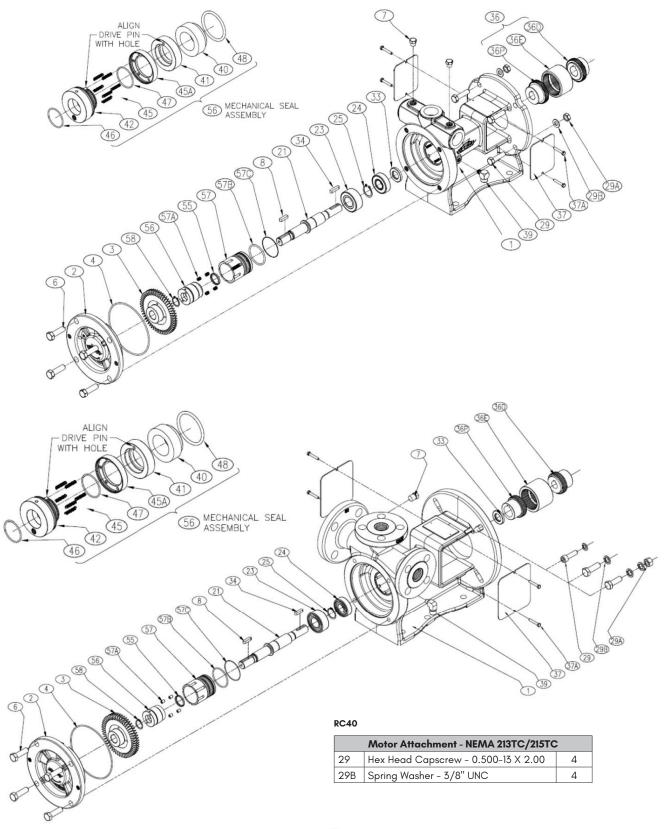


¹ Included in Maintenance Kit and Rebuild Kit

² Included in Rebuild Kit



PARTS LIST - EBSRAY MODELS: RC20, RC25 & RC40





PARTS LIST - EBSRAY MODELS: RC20, RC25 & RC40

Cover	Ref.No	Description	Parts Per Pump	RC20	RC25	RC40
Impeller	1	Body-Nema	1	EBSC317002-1031	EBSC3160031031	EBSC319001-1037
4	2	Cover	1	EBSc317200-1031	EBSC316200-1031	EBSC319200-1037
6 Hex Head Capscrew, MI2-1.75X40	3	Impeller	1	EBSC317301-1042	EBSC316301-1042	EBSC319301-1042
Plug - Guage Tap 2 BLK908198	4	O-Ring - Cover	1	1 EBSD2	49-4029	₂ EBSD252-4029
Section Sec	6	Hex Head Capscrew, M12-1.75X40	4			
21 Shaff 1 2EBSC316550-2152 2EBSC319550-215 25 Ball Bearing - Inpeller End	7	Plug - Guage Tap	2		BLK908198	
Sall Bearing - Inpeller End	8	Key - Impeller End, Steel 6X6X20	1	1		
24 Ball Bearing - Motor Head 1 ₂ EBSB073 25 Circlip - Bearing 1 ₂ EBSB177-025S 34 Key- Pump Shoft, Steel 6X6X20 1 EBSZ044-401I 34 Key- Pump Shoft, Steel 6X6X20 1 EBSL575-028-019-087 56 Coupling Assembly-0.875 Motor Shoft, NEMA 140TC, 184C 1 EBSL575-028-019-306 EBSL575-038-019-3 26 Coupling Assembly-1.125 Motor Shoft, NEMA 180TC, 21SC 1 EBSL575-028-019-306 EBSL575-038-019-3 36 ZisiC, 21SC 1 EBSL575-028-019-306 EBSL575-038-019-3 21STC, 21SC Coupling Assembly-1.375 Motor Shoft, NEMA 180TC, 21SC 1 EBSL575-028-019-306 EBSL575-038-019-3 36 #35D Half Coupling-0.875 Motor Shoft 0-1 Image:	21	Shaft	1	2 EBSC316	350-2152	₂ EBSC319350-2152
25 Circlip - Bearing 1 2EBS8177-025S	23	Ball Bearing - Inpeller End	1		₂ EBSB072	
33 Dust Seal - Bearing 1 EBSZ044-4011 34 Key- Pump Shaft, Steel 6X6X20 1 35 Coupling Assembly-0.875 Motor Shaft, NEMA 1 EBSL575-028-019-087 36 Coupling Assembly-1.125 Motor Shaft, NEMA 1 EBSL575-028-019-306 EBSL575-038-019-2 36 Coupling Assembly-1.375 Motor Shaft NEMA 1 EBSL575-028-019-306 EBSL575-038-019-2 36 #350 Half Coupling-0.875 Motor Shaft 0-1	24	Ball Bearing - Motor Head	1		₂ EBSB073	
Seed Drain Elbow 1 Ses Side Secondary Seal Praine Elbow 1 Ses Side Secondary Seal Praine Elbow 1 Ses Side Secondary Seal Seal Sear Spring Retainer 1 Ses Side Secondary Seal Seal Sear Spring Retainer 1 Ses Side Seal Sear Seal Seal Seal Seal Seal Seal Seal Seal	25	Circlip - Bearing	1		₂ EBS8177-025S	S
Coupling Assembly-0.875 Motor Shaft, NEMA 1 EBSL575-028-019-087	33	Dust Seal - Bearing	1		EBSZ044-4011	
Coupling Assembly-0.875 Motor Shaft, NEMA 1 EBSL575-028-019-087	34	Ŭ	1			
180TC, 215C		Coupling Assembly-0.875 Motor Shaft, NEMA	1	EBSL575-0	28-019-087	
21STC, 21STC 1 EBSL3/5-038-09-2 #36D Half Coupling-0.875 Motor Shaft 0-1 0-1 #36D Half Coupling-1.125 Motor Shaft 0-1 0-1 #36D Half Coupling-1.375 Motor Shaft 0-1 0-1 #36D Half Coupling Element 1 0-1 #36P Half Coupling-Pump 1 0-1 37 Coupling Guard 2 EBSC316700-3081 EBSC319700-3081 37A Hex Head Capscrew-Coupling Guard, M5-0.8X30 4 0-1			1	EBSL575-0	28-019-306	EBSL575-038-019-306
#36D Half Coupling-1.125 Motor Shaft #36D Half Coupling-1.375 Motor Shaft #36D Half Coupling-1.375 Motor Shaft #36E Coupling Element #36F Half Coupling-Pump 1 57 Coupling Guard 2 EBSC316700-5081 EBSC319700-308' 37A Hex Head Capscrew-Coupling Guard, M5-0.8X30 4 EBSC319700-308' 39 Seal Drain Elbow 1 EBS-8312-012S 55 Lip Seal - Secondary Seal 1 2 EBSZ043-4015 56 Mechanical Seal Assembly 1 1,2 EBSL756-28-111-05 40 Seal Seat 1 EBSC316610-4114 41 Rotating Seal Face 1 EBSC316610-4114 41 Rotating Seal Face 1 EBSC316626-4036 42 Seal Sleeve 1 EBSC316651-2162 45 Seal Spring 6 EBSC753001-2223 45A Spring Retainer 1 EBSC316690-2162 46 O-Ring - Shaft 1 EBSC020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Sleeve 1 EBSD020-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4 1 1,2 EBSD032-4029 57C O-Ring - Cartridge Primary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBSR177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111	36		1			EBSL575-038-019-297
#36D Half Coupling-1.375 Motor Shaft		#36D Half Coupling-0.875 Motor Shaft	0-1			
#36E Coupling Element #36P Half Coupling-Pump 1		#36D Half Coupling-1.125 Motor Shaft	0-1			
#36P Half Coupling-Pump 1		#36D Half Coupling-1.375 Motor Shaft	0-1			
57 Coupling Guard 2 EBSC316700-3081 EBSC319700-308 37A Hex Head Capscrew-Coupling Guard, M5-0.8X30 4 1 EBS-8312-012S 39 Seal Drain Elbow 1 EBS-8312-012S 55 Lip Seal - Secondary Seal 1 2 EBSZ043-4015 56 Mechanical Seal Assembly 1 1,2 EBSL756-28-111-05 40 Seal Seat 1 EBSC316610-4114 41 Rotating Seal Face 1 EBSC316626-4036 42 Seal Sleeve 1 EBSC316651-2162 45 Seal Spring 6 EBSC753001-2223 45A Spring Retainer 1 EBSC316690-2162 45 Seal Sleeve 1 EBSC316690-2162 46 O-Ring - Shaft 1 EBSD020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD218-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375		#36E Coupling Element	1			
37A Hex Head Capscrew-Coupling Guard, M5-0.8X30 4 39 Seal Drain Elbow 1 EBS-8312-012S 55 Lip Seal - Secondary Seal 1 2 EBSZ043-4015 56 Mechanical Seal Assembly 1 1 1,2 EBSL756-28-111-05 40 Seal Seat 1 EBSC316610-4114 41 Rotating Seal Face 1 EBSC316626-4036 42 Seal Sleeve 1 EBSC316651-2162 45 Seal Spring 6 EBSC753001-2223 45A Spring Retainer 1 EBSC316690-2162 46 O-Ring - Shaft 1 EBSD020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD218-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4 57B O-Ring - Cartridge Primary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBSR177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111		#36P Half Coupling-Pump	1			
39 Seal Drain Elbow 1 EBS-8312-012S 55 Lip Seal - Secondary Seal 1 2 EBSZ043-4015 56 Mechanical Seal Assembly 1 1,2 EBSL756-28-111-05 40 Seal Seat 1 EBSC316610-4114 41 Rotating Seal Face 1 EBSC3166626-4036 42 Seal Sleeve 1 EBSC316651-2162 45 Seal Spring 6 EBSC753001-2223 45A Spring Retainer 1 EBSC316690-2162 46 O-Ring - Shaft 1 EBSD020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD18-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4 1 57B O-Ring - Cartridge Primary 1 1,2 EBSD032-4029 57C O-Ring - Cartridge Secondary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 EBSK756-28-111	37	Coupling Guard	2	EBSC316	700-3081	EBSC319700-3081
59 Seal Drain Elbow 1 EBS-8312-012S 55 Lip Seal - Secondary Seal 1 2 EBSZ043-4015 56 Mechanical Seal Assembly 1 1,2 EBSL756-28-111-05 40 Seal Seat 1 EBSC316610-4114 41 Rotating Seal Face 1 EBSC316626-4036 42 Seal Sleeve 1 EBSC316651-2162 45 Seal Spring 6 EBSC753001-2223 45A Spring Retainer 1 EBSC316690-2162 46 O-Ring - Shaft 1 EBSD020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD218-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4 1 57B O-Ring - Cartridge Primary 1 1,2 EBSD032-4029 57C O-Ring - Cartridge Secondary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBSR177-020S	37A	Hex Head Capscrew-Coupling Guard, M5-0.8X30	4			
56 Mechanical Seal Assembly 1 1,2 EBSL756-28-111-05 40 Seal Seat 1 EBSC316610-4114 41 Rotating Seal Face 1 EBSC316626-4036 42 Seal Sleeve 1 EBSC316651-2162 45 Seal Spring 6 EBSC753001-2223 45A Spring Retainer 1 EBSC316690-2162 46 O-Ring - Shaft 1 EBSD020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD218-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4 1 1,2 EBSD032-4029 57C O-Ring - Cartridge Primary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBS8177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111	39		1		EBS-8312-012S	
56 Mechanical Seal Assembly 1 1,2 EBSL756-28-111-05 40 Seal Seat 1 EBSC316610-4114 41 Rotating Seal Face 1 EBSC316626-4036 42 Seal Sleeve 1 EBSC316651-2162 45 Seal Spring 6 EBSC753001-2223 45A Spring Retainer 1 EBSC316690-2162 46 O-Ring - Shaft 1 EBSD020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD218-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4 1 1,2 EBSD032-4029 57C O-Ring - Cartridge Primary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBS8177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111	55	Lip Seal - Secondary Seal	1		₂ EBSZ043-4015	5
41 Rotating Seal Face 1 EBSC316626-4036 42 Seal Sleeve 1 EBSC316651-2162 45 Seal Spring 6 EBSC753001-2223 45A Spring Retainer 1 EBSC316690-2162 46 O-Ring - Shaft 1 EBSD020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD218-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4	56		1		1,2 EBSL756-28-111-	-05
42 Seal Sleeve 1 EBSC316651-2162 45 Seal Spring 6 EBSC753001-2223 45A Spring Retainer 1 EBSC316690-2162 46 O-Ring - Shaft 1 EBSD020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD218-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4 1 57B O-Ring - Cartridge Primary 1 1,2 EBSD224-4029 57C O-Ring - Cartridge Secondary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBS8177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111	40	Seal Seat	1		EBSC316610-4114	4
42 Seal Sleeve 1 EBSC316651-2162 45 Seal Spring 6 EBSC753001-2223 45A Spring Retainer 1 EBSC316690-2162 46 O-Ring - Shaft 1 EBSD020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD218-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4 1 57B O-Ring - Cartridge Primary 1 1,2 EBSD224-4029 57C O-Ring - Cartridge Secondary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBS8177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111	41	Rotating Seal Face	1		EBSC316626-403	36
45 Seal Spring 6 EBSC753001-2223 45A Spring Retainer 1 EBSC316690-2162 46 O-Ring - Shaft 1 EBSD020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD18-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4 1 57B O-Ring - Cartridge Primary 1 1,2 EBSD224-4029 57C O-Ring - Cartridge Secondary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBS8177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111	42	-	1		EBSC316651-216	2
45A Spring Retainer 1 EBSC316690-2162 46 O-Ring - Shaft 1 EBSD020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD218-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4 1 57B O-Ring - Cartridge Primary 1 1,2 EBSD224-4029 57C O-Ring - Cartridge Secondary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBS8177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111	45	Seal Spring	6			
46 O-Ring - Shaft 1 EBSD020-4029 47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD218-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4 1 57B O-Ring - Cartridge Primary 1 1,2 EBSD224-4029 57C O-Ring - Cartridge Secondary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBS8177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111	45A	1 0	1		EBSC316690-216	52
47 O-Ring - Seal Sleeve 1 EBSD020-4029 48 O-Ring - Seal Seat 1 EBSD218-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4	46	· · ·	1		EBSD020-4029)
48 O-Ring - Seal Seat 1 EBSD218-4029 57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4	47		1		EBSD020-4029)
57 Cartridge - Mechanical Seal 1 2 EBSC316676-1035 57A Oval Point Setscrew, 1/4-28x0.375 4 57B O-Ring - Cartridge Primary 1 1,2 EBSD224-4029 57C O-Ring - Cartridge Secondary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBS8177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111	48	0	1			
57A Oval Point Setscrew, 1/4-28x0.375 4 57B O-Ring - Cartridge Primary 1 1,2 EBSD224-4029 57C O-Ring - Cartridge Secondary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBS8177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111	57	-	1			
57B O-Ring - Cartridge Primary 1 1,2 EBSD224-4029 57C O-Ring - Cartridge Secondary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBS8177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111		ů .	· ·			
57C O-Ring - Cartridge Secondary 1 1,2 EBSD032-4029 58 Circlip - Mechanical Seal 1 2 EBS8177-020S Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111		• •			1.2 EBSD224-402	29
58 Circlip - Mechanical Seal 1 ₂ EBS8177-020S Mechanical Seal Kit, Repair (Marked by ₁) 1 EBSK756-28-111						
Mechanical Seal Kit, Repair (Marked by 1) 1 EBSK756-28-111		, ,	-			
Quill Assembly, (Marked by 2) 1 EBSL316378 EBSL319378		Quill Assembly, (Marked by 2)	1	FRQ17		EBSL319378

^{*}When ordering spare parts, **Always** quote the pump Seriel Number located on the nameplate of the pump.

RC20/RC25

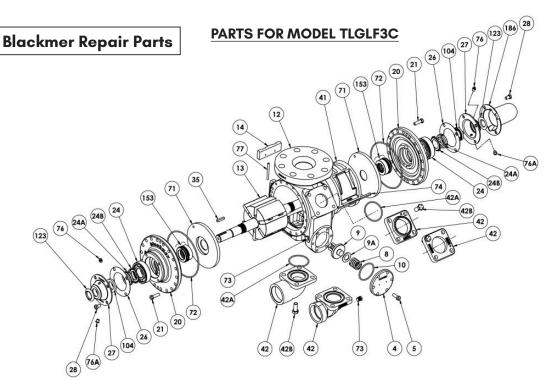
	Motor Attachment - NEMA 140TC, 184C					
29	Hex Head Capscrew-0.375-16 X 1.50	4				
29B	Spring Lock Washer - 0.375	4				
	Motor Attachment - NEMA 180TC, 215C					
29	Hex Head Capscrew - 0.500-13 X 2.00	4				
29B	Spring Washer =, 3/8" UNC	4				



¹ Included in Maintenance Kit and Rebuild Kit.

² Included in Rebuild Kit







Ref. No.	Description	Parts Per Pump	Part No.
4	Cover-Relief Valve (R/V)	1	415108
5	Capscrew-R/V Cover	6	920331
8	Spring-R/V	1	1 471428
9	Valve-R/V	1	₄ 451460
9A	Relief Valve Shim, .035"	0-1	332907
	Relief Valve Shim, .075"		332937
10	O-Ring - R/V Cover	1	1 701919
12	Casing	1	015128
13	Rotor & Shaft Assembly ₅	1	2 265147
14	Vane - Duravane	6	1 095132
20	Head	2	035132
21	Capscrew-Head	36	920351
24	Ball Bearing	2	1 903156
24A	Locknut-Bearing	2	2 903521
24B	Lockwasher -Bearing	2	1 903522
26	Gasket-Bearing Cover	2	1 383940
27	Bearing Cover	2	041431
28	Capscrews-Bearing Cover	8	920285
35	Key - Shaft Current, .25 Sq.	1	1 909209
	Key - Shaft Obs, Woodruff		1 909130
41	Liner	1	2 185101
	Flange - 2" NPT		652010
	Flange -2" Slip-on Weld		652024
	Flange Elbow - 2" NPT		6 655100
42	Flange Elbow - 2" Socket Weld	1-2	6 655109
42	Blank Flange for Auxiliary Inlet] I-Z	652036
	Flange - 2" NPT Stainless		655200
	Flange - 2" Socket Weld EL Stainless		6 655209
	Flange - 2" Slip-on Weld Stainless		655224

Ref. No.	Description	Parts Per Pump	Part No.
42A	O-Ring-Flange 2-5/8" x 2-7/8" (current)	2	1,3 702004
42A	O-Ring-Flange 2-1/2" x 2-3/4" (older pumps)	2	1 701919
42B	Capscrews - Flanges	4-8	920491
42b	Socket Capscrew - Elbow Flanges	4-0	920494
71	Disc.	2	1 065121
72	O-Ring -Head	2	1 711923
73	Gauge Plug	2	908198
74	Key-Liner	1	2 185193
76	Grease Fitting	2	317815
76A	Grease Relief Fitting	2	701992
77	Push Rod	3	1 121608
104	Grease Seal	2	1 331918
123	Dirt Shield	2	1 701480
186	Shaft Protector	1	341601
	Tool – Locknut		903091
	Kit - Maintenance		898980
	Kit - Maintenance with R/V		899225
	Kit - Rebuild		899080
	Kit - Rebuild with R/V		899125

⁶ Socket Head Capscrew Specific



¹ Included in Maintenance Kit and Rebuild Kit

² Included in Rebuild Kit

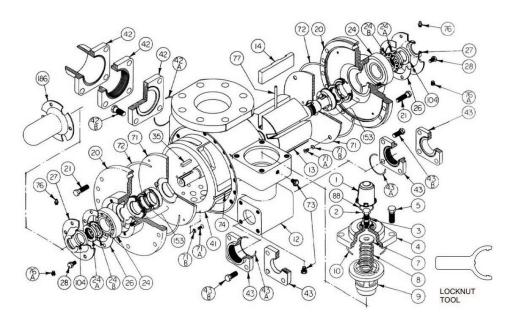
³ Larger O-Ring introduced October 2002

⁴ Additional parts included in kits with R/V

⁵ Includes Ref. No. 24A & 24B



PARTS FOR MODEL TLGLF4B



Ref. No.	Description	Parts Per Pump	Part No.
1	Cap-Relief Valve (R/V)	1	413957
2	Adjusting Screw - R/V	1	436310
3	Locknut- Adjusting Screw	1	432039
4	Cover-(R/V)	1	412001
5	Capscrews-R/V Cover	4	920663
7	Spring Guide-R/V	1	426355
8	Spring - R/V	1	1 472039
9	Valve-R/V	1	452001
10	O-Ring-R/V Cover	1	1 701946
12	Casing	1	012041
13	Rotor & Shaft Assembly (Includes Ref. No. 24A & 24B)	1	2 262041
14	Vane - Duravane	6	1 092019
20	Head	2	032041
21	Capscrews-Head	28	920532
24	Ball Bearing	2	1 903166
24A	Locknut-Bearing	2	2 903541
24B	Lockwasher-Bearing	2	1 903542
26	Gasket-Bearing Cover	2	1 385125
27	Bearing Cover	2	041815
28	Capscrews-Bearing Cover	12	920285
35	Key-Shaft	1	1 909183
41	Liner	1	2 182000
	Auxilary Inlet Options	3	
	Flange - 3" NPT		652012
	Flange - 3" Weld		652030
42	Flange - 4" Weld	1	652005
	Flange - 3" Weld		652007
	Flange – Blank		652000
42A	O-Ring Aux. Inlet Flanges	1	701937
	Capscrew - 2", 3" NPT Flange		920663
42B	Capscrew - 3", 4" Weld Flange; Blank Flange	4	920640

Ref. No.	Description	Parts Per Pump	Part No.
	Twin Discharge Port Opt	ions	
47	Flange - 2" NPT	2	652010
45	Flange - 2" Slip-on Weld		652024
43A	O-Ring - 2" Discharge Flanges	2	1 702004
43B	Capscrews - Discharge Flange	8	920491
71	Disc	2	1 062039
71A	Machine Screw - Disc	8	2 920015
71B	Lock washer-Machine screw	8	2 909634
72	O-Ring - Head	2	1 702039
73	Gauge Plug	2	908198
74	Key - Liner	1	2 182040
76	Grease Fitting	2	317815
76A	Grease Relief Fitting	2	701992
77	Push Rod - Composite	3	1 122009
88	O-Ring-R/V Cap	1	1 701926
104	Grease Seal	2	1 331908
186	Shaft Protector	1	341801
	Tool – Locknut		903092
	Kit - Maintenance		898922
	Kit - Rebuild		899022

¹ Included in Maintenance and Rebuild Kit



² Included in Rebuild Kit



Corken Cylinder Filling Pumps

CORO-FLO CYLINDER FILLING PUMPS

Regenerative turbine pumps. Ductile Iron casing, balance type mechanical seal, and free floating bronze impeller provide years of service and quite operation

C Model Close Coupled Series

- C10 Pump is ideal for the one scale bottle filling operation. Fills 20# cylinder in 30 seconds Fills 100# cylinder in 2.5 minutes, and fuels through a meter at 7 GPM.
- C12 Pump is for those who want to do it faster. Especially recommended for motor fueling and "batch" fork lift filling. Fills 20# cylinder in 15 seconds, 100# cylinders in 2 minutes. Perfect for motor fueling through a meter at 15 GPM.



RMI Part No.		Capaci	ty- GPM			AA	H.P.	Motor
Pump, Starter & Bypass	Pump & Starter	50 PSID	75 PSID	Inlet	Outlet	Max PSID	Rating	Phase
C10JD-SM-B	C10JD-SM	6.5	2.5	1-1/4"	1"	75	2	1
C12JD-SM-B	C12JD-SM	15	11	1-1/2"	1"	85	2	1
C13JD-SM-B	C13JD-SM	22	17	1-1/2"	1"	100	2	1
C14HD*		32	25	1-1/2"	1"	100	3	1

^{*}Starter Not Included



C SERIES



F SERIES

F SERIES CORO-FLO CYLINDER FILLING PUMP

RMI Part No.		Capaci			Max	
Pump, Baseplate & Coupling	Pump Only	50 PSID	75 PSID	Inlet	Outlet	PSID
F10CD-101	F10CD	6.5 W/ 1HP	2.5 W/1HP	1-1/4"	1"	90
F12CD-101	F12CD	15 W/ 2HP	11 W/ 2 HP	1-1/2"	1"	115
F14CD-101	F14CD	31 W/ 3HP	25 W/ 3 HP	1-1/2"	1"	125
F13CD-101	F13CD	21 W/ 3HP	17 W/ 3HP	1-1/2"	1"	125

Corken Autogas Pumps

AUTOGAS PUMPS

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 applications such as cylinder filling, vaporizer feeding, or bulk transfer.

- Ideal for dual hose dispensers and multiple dispensers
- ANSI Flanges 1-1/2" inlet x 1" outlet
- Continuous Duty Capacity
- Self-aligning, free-floating impeller

High Differential Pressure Packages

Prepackaged pump assemblies with motor and bypass valve

Options

TECH TIP: Variable frequency drives allow the use of 3-phase motors on single phase electric service. Can also be used instead of a starter with 3-phase service.



HDPFF150

PUMP PACKAGES

RMI Part N	No. GPM Diff.			Motor
Pump on Base	Pump Only	GPIM	Pressure	HP
FF075CD6A-101-215T	FF075CD6A	22.5	145	7.5
FF150CD6A-101-215T	FF150CD6A	33.8	145*	10

^{*200}psig maximum differential pressure with 20HP motor

HIGH DIFFERENTIAL PRESSURE PACKAGES

RMI Part No.	Description
HDPFF075-3P75	Pump, Base Plate, Bypass, and 7.5HP 3PH MOTOR
HDPFF150-3P10	Pump, Base Plate, Bypass, and 10HP 3PH MOTOR

OPTIONS

RMI Part No.	Description
4204-1	10HP Variable Frequency Drive for use with 5HP motor
4204	15HP Variable Frequency Drive for use with 7.5HP motor
4204-2	20HP Variable Frequency Drive for use with 10HP motor







CORO-VANE BULK FILL PUMPS

- Sliding vane design with internal safety valve
- Large diameter non-metallic pins are not speed sensitive to allow for higher RPM operation
- High Tech materials used on cam and blades to extend life of pump
- Easy maintenance

RMI Part No.		Inlet/Outlet	Capacity @ 50 PSID		
Pump & Base	Pump Only	inlet/Outlet	GPM @ 640 RPM	GPM @ 780 RPM	
Z2000-103	Z2000	2" NPT	69	82	
Z3500-103	Z3500*	3" NPT	143	177	
Z4500-103	Z4500	4" x 3" FLNG	309	382	



Z3500-103

CORO-VANE FLANGE MOUNTED TRUCK AND TRANSPORT PUMPS

- Reversible side plates
- Anti-cavitation cam
- · Low impact high strength drivers
- Needle roller bearing rated for up to 4,000 lbs.

RMI Part No.	Inlet	0	Capacity	e 50 PSIG
KINI Part No.	iniet	Outlet	GPM @ 640 RPM	GPM @ 780 RPM
Z3200	3" Flange	2" NPT	95	112
Z4200	4" Flange	Dual 2"	278	369



Z SERIES FLANGE MOUNT

CORO-VANE BASE MOUNTED TRUCK PUMP

- Double Shaft Extension for LH or RH PTO
- Hydraulic Actuated Blades

RMI Part No.	Inlet	Outlet	Capacity @ 50 PSIG
Z2000	2" NPT Flange	2"	40-85 GPM



DRY CYLINDER COMPRESSORS

- Designed for liquid transfer and residual vapor recovery
- Contamination-free, oil-free delivery
- Fully engineered design

RMI Part No.		Сар	acity	Motor		Standard	Pipe Size
Complete Bulk Plant Transfer Unit*	Compressor & Fly Wheel Only	GPM	CFM	HP	RPM	Vapor	Liquid
91M3FBA-107	91M3FBA	50	8.3	5	600	1"	1-1/4"
291M3FBA-107	291M3FBA	88	16	7.5	780	1-1/4"	2"
491M3FBA-107	491M3FBA	198	36	15	825	2"	3"
691M3FBA-107	691M3FBA	330	60	25	822	3"	4"

^{*}Transfer unit includes compressor, gauges, base, piping, strainer, 4-way valve, liquid trap, belt guards, and sliding base. Motor is not included

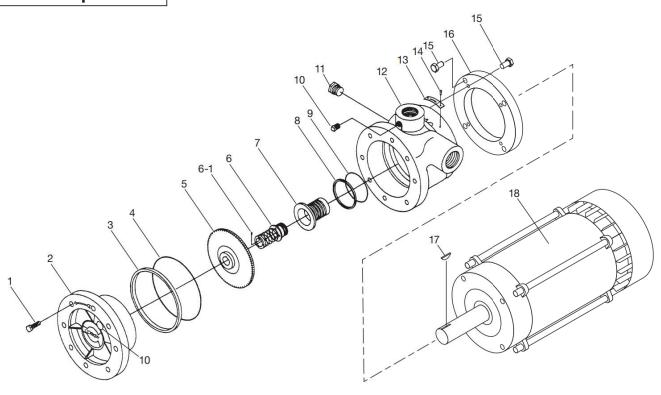




^{*}Easy retrofit with 1021 or other 3" pump



PARTS FOR C10, C12, C13, C14, & C16 MODEL PUMPS



Ref No.	RMI Part No.	Description	Qty.
1	7001-031NC100A	Hex Head Cap Screw	8
	1001-0	Cover - Model 10	1
	1001-2	Cover - Model 12	1
2	1001-3	Cover - Model 13	1
	1001-4	Cover - Model 14	1
	1001-6	Cover - Model 16	1
7	1014¹	Case clearance shim (.002" red)	As Req.
3	1014-11	Case clearance shim (.003" green)	As Req.
4	2-246A ₁	Case O-Ring (non-teflon)	1
	1003-02	Impeller, Bronze - Model 10	1
	1003-22	Impeller, Bronze - Model 12	1
5	1003-32	Impeller, Bronze - Model 13	1
	1003-42	Impeller, Bronze - Model 14	1
	1003-62	Impeller, Bronze - Model 16	1
6	113-CXA6	Seal Assembly (Buna-N O-Rings)	1
6-1	10091	Seal Pin	1
7	1004-13	Seal Housing without Pin (steel)	1
/	1004-1X ₄	Seal Housing with Pin (steel)	1
0	1013	Housing Adjustment Shim (.010")	As Req.
8	1013-1	Housing Adjustment Shim (.020")	As Req.
9	2-224A ₁	Housing O-Ring (Buna-N)	1

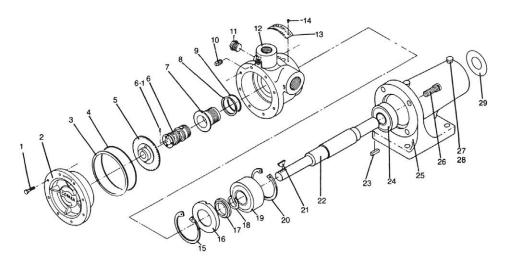
Ref No.	RMI Part No.	Description	Qty.
10	3442	Pipe Plug, 1/4" NPT	1
11	3444	Pipe Plug, 3/4" NPT	1
	1002-0	Case - Model 10	1
	1002-2	Case - Model 12	1
12	1002-3	Case - Model 13	1
	1002-4	Case - Model 14	1
	1002-6	Case - Model 16	1
13	1914-1	Nameplate	1
14	7012-006SF019E	Phillips Head Screw 6-32 X 1/4"	2
15	7002-037NC087A	Socket Head Cap Screw	8
16	1015	Adapter Ring	1
17	24971	Woodruff Key, Steel	1
17	2497-11	Woodruff Key, Stainless Steel	1
	2557	Motor, 3HP - Models 14 & 16 (3 Phase)	1
18	4261	Motor, 2HP - Models 10, 12, & 13	1
10	4261-1	Motor, 1HP - Models 10 & 12	1
	4885	Motor, 3HP - Models 14 & 16 (Single Phase)	1

- 1 Included with seal assembly/repair kit 113-CXA6
- ² For a ductile iron impeller, add a 1 to the end of the part number
- ³ Pin is not required for Buna-N, Neoprene, and Viton O-Rings
- 4 Pin is required for PTFE and Kalrez O-Rings





PARTS FOR F10, F12, F13, F14, F16, F17, F18, & F19 MODEL PUMPS



MATERIAL CODE

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MAILKIAL OODL					
Α	Buna-N					
В	Neoprene					
D	Viton					
Ε	PTFE					
G	Ethylene Propylene					
K	Kalrez					

1014-1 2 Case Clearence Shim (.003" green) As Req.	Ref No.	RMI Part No.	Description	Qty.
2 1001-2 Cover - model 12 1 1 1 1 1 1 1 1 1	1	7001-031NC100A	Hex Head Cap Screw	8
1001-3		1001-0	Cover - model 10	1
1001-4		1001-2	Cover - model 12	1
1001-6		1001-3	Cover - model 13	1
1001-6	0	1001-4	Cover - model 14	1
1001-8		1001-6	Cover - model 16	1
1001-9 Cover - model 19 1 1 1 1 1 1 2 Case Clearence Shim (.002" red) As Req. 1014-1		1001-7	Cover - model 17	1
1014 2 Case Clearence Shim (.002" red) As Req.		1001-8	Cover - model 18	1
1014-1 2 Case Clearence Shim (.003" green) As Req.		1001-9	Cover - model 19	1
1014-1 2 Case Clearence Shim (.003" green) As Req.	7	1014 2	Case Clearence Shim (.002" red)	As Req.
1	5	1014-1 2	Case Clearence Shim (.003" green)	As Req.
2-247E 2 Case O-Ring PTFE 1 1 1 1 1 1 1 1 1	4	2-246_ 1 2	Case O-Ring (non-PTFE)	1
1003-2 3 Impeller, bronze - model 12 1	4	2-247E ₂	Case O-Ring PTFE	1
1003-3 s Impeller, bronze - model 13 1		1003-0 з	Impeller, bronze - model 10	1
1003-4 s Impeller, bronze - model 14 1 1 1 1 1 1 1 1 1		1003-2 з	Impeller, bronze - model 12	1
1003-61 Impeller, ductile iron - models 16 & 17 1		1003-3 з	Impeller, bronze - model 13	1
1003-81	5	1003-4 з	Impeller, bronze - model 14	1
1003-91 Impeller, ductile iron - model 19 1		1003-61	Impeller, ductile iron – models 16 & 17	1
113-CX_6 1 Seal Assembly, aluminum sleeve 1		1003-81	Impeller, ductile iron – model 18	1
0 113CX_6A 1 Seal Assembly, stainless steel sleeve 1 6-1 1009 2 Seal Pin 1 1004-14 Seal Housing, no pin, steel 1 1004-114 Seal Housing, no pin, stainless steel 1 1004-1X 5 Seal Housing, with pin, steel (Kalrez) 1 1004-11X 5 Seal Housing, with pin, stainless steel (Kalrez) 1 1004-2X 5 Seal Housing, with pin, steel (PTFE) 1 1004-21X 5 Seal Housing, with pin, stainless steel (PTFE) 1 1013 Housing Adjustment Shim (.010") As Req.		1003-91	Impeller, ductile iron - model 19	1
0 113CX_6A 1 Seal Assembly, stainless steel sleeve 1 6-1 1009 2 Seal Pin 1 1004-14 Seal Housing, no pin, steel 1 1004-114 Seal Housing, no pin, stainless steel 1 1004-1X 5 Seal Housing, with pin, steel (Kalrez) 1 1004-11X 5 Seal Housing, with pin, stainless steel (Kalrez) 1 1004-2X 5 Seal Housing, with pin, steel (PTFE) 1 1004-21X 5 Seal Housing, with pin, stainless steel (PTFE) 1 1013 Housing Adjustment Shim (.010") As Req.	,	113-CX_6 ₁	Seal Assembly, aluminum sleeve	1
1004-14 Seal Housing, no pin, steel 1	0	113CX_6A ₁		1
7 Seal Housing, no pin, stainless steel 1	6-1	1009 2	Seal Pin	1
7 Seal Housing, with pin, steel (Kalrez) 1		1004-1 4	Seal Housing, no pin, steel	1
7 1004-11X s Seal Housing, with pin, stainless steel (Kalrez) 1 1004-2X s Seal Housing, with pin, steel (PTFE) 1 1 1004-21X s Seal Housing, with pin, stainless steel (PTFE) 1 1013 Housing Adjustment Shim (.010") As Req. 8		1004-11 4	Seal Housing, no pin, stainless steel	1
1004-11/x steel (Kalrez) 1 1 1 1 1 1 1 1 1		1004-1X s	Seal Housing, with pin, steel (Kalrez)	1
1004-21X s Seal Housing, with pin, stainless steel (PTFE) 1013 Housing Adjustment Shim (.010") As Req.	7	1004-11X ₅		1
steel (PTFE) 1013 Housing Adjustment Shim (.010") As Req.		1004-2X s	Seal Housing, with pin, steel (PTFE)	1
8		1004-21X s		1
1013-1 Housing Adjustment Shim (.020") As Req.	Ω	1013	Housing Adjustment Shim (.010")	As Req.
	0	1013-1	Housing Adjustment Shim (.020")	As Req.

Ref No.	RMI Part No.	Description	Qty.
9	2-224_ 1 2	Housing O-Ring	1
10	3442	Pipe Plug, 1/4" NPT	1
11	3444	Pipe Plug, 3/4" NPT	1
	1002-0	Case - model 10	1
	1002-2	Case - model 12	1
	1002-3	Case - model 13	1
12	1002-4	Case - model 14	1
12	1002-6	Case - model 16	1
	1002-7	Case - model 17	1
	1002-8	Case - model 18	1
	1002-9	Case - model 19	1
13	1914-1	Nameplate	1
14	7012-006SF019E	Phillips Head Screw 6-32 X 1/4"	2
15	5002-281	Bearing Retainer Ring	1
16	1238	Bearing Cap	1
17	1006	Grease Seal	1
18	5102-118	Bearing Retainer Ring	1
19	2758	Ball Bearing	1
20	5000-281	Bearing Retaineer Ring	1
21	2497 2	#5 Woodruff Key, steel	1
21	2497-12	#5 Woodruff Key, stainless steel	1
	1234	Shaft, steel	1
22	1234-X ₆	Shaft Assembly, steel	1
22	1234-1	Shaft, stainless steel	1
	1234-1X ₆	Shaft Assembly, stainless steel	1
23	3226 2	Кеу	1
24	2759	Ball Bearing	1
25	1010-2	Frame	1
26	7002-037NC087A	Socket Head Screw	4
27	2158	Grease Zerk	2
28	2159	Lubricap	2
29	3227	Bearing Plate	1

¹_ denotes material code. See material code chart for details



² Included with seal assembly/repair kit

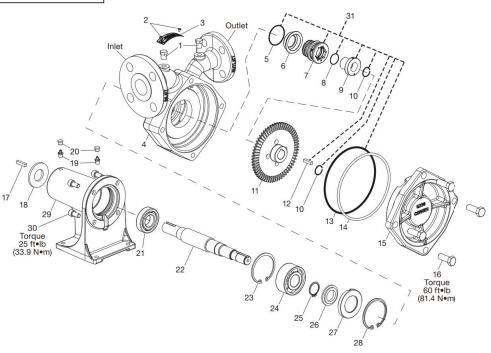
³ Add a 1 to the part number for ductile iron or a 2 for stainless steel

⁴ Pin is not required for Buna-N, Neoprene, or Viton O-rings

⁵ Pin is required for PTFE and Kalrez O-Rings

⁶ Shaft assembly comes with bearing pressed on the shaft and includes part numbers 2758, 2759, & 5102-118

PARTS FOR FF060, FF075, & FF150 MODEL CORO-FLO PUMPS



Ref No.	RMI Part No.	Description	Qty.	
1	3442	1/4" Pipe Plug	2	
2	7012-0065F019E	Nameplate Screw	2	
3	1914-1	Nameplate	1	
	5238-060	060 Case - ANSI Flange (FF)	1	
	5238-75	075 Case - ANSI Flange (FF)	1	
4	5238	150 Case - ANSI Flange (FF)	1	
4	5238-061	060 Case - DIN Flange (FD)	1	
	5238-751	075 Case - DIN Flange (FD)	1	
	5238-1	150 Case - DIN Flange (FD)	1	
5	2-133_ 1 2	Seal Housing O-Ring	1	
6	5244-1X	Seal Housing Assembly	1	
7	Not Sold	Carl Cula Assault	1	
/	Separately 2	Seal Sub Assembly	'	
8	2-108_ 1 2	Seal Sleeve O-Ring	1	
9	Not Sold	Soal Sloove Assambly	Seal Sleeve Assembly	1 1
	Separately 2	Sedi Sieeve Assembly	' '	
10	2760-883	7/8" Retainer Ring	1	
	5240-060	060 Impeller (Bronze)	1	
	5240-75	075 Impeller (Bronze)	1	
	5240	150 Impeller (Bronze)	1	
	5240-061	060 Impeller (Stainless Steel)	1	
11	5240-751	075 Impeller (Stainless Steel)	1	
	5240-1	150 Impeller (Stainless Steel)	1	
	5240-062	060 Impelier (Steel)	1	
	5240-752	075 Impeller (Steel)	1	
	5240-2	150 Impeller (Steel)	1	

1	denotes	material	code

_ 2 Included in seal assembly 3189-1X_6 ₁

Ref No.	RMI Part No.	Description	Qty.
12	42443	Impeller Key	1
13	2-260_ 1 2	Case O-Ring	1
14	5248 3	Case Clearence Shim	1
	5239-060	060-Cover	1
15	5239-75	075-Cover	1
	5239	150-Cover	1
16	7301-140MC040A	M14-2 X 40mm Hex Head Bolt	4
17	3226	Shaft Key	1
18	3227	Bearing Plate	1
19	2158	Grease Zerk	2
20	2159	Lubricap	2
21	2759	Single Row Ball Bearing	1
22	5241-1	Shaft	1
23	5000-281	Retainer Ring	1
24	2758	Double Row Ball Bearing	1
25	5102-118	Retainer Ring	1
26	1006	Grease Seal	1
27	1238	Bearing Cap	1
28	5002-281	Retainer Ring	1
29	1010-3	Mounting Frame	1
30	7302-100MC020A	M10-1.5 X 22mm Allen Head Bolt	4
31	3189-1X_6 ₁	Seal Assembly	1

MATERIAL CODE

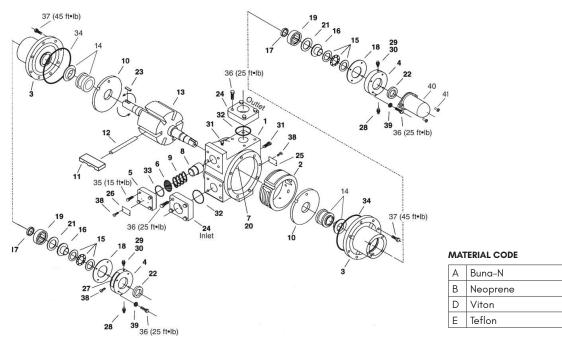
Α	Buna-N
В	Neoprene
D	Viton
G	Ethylene Propylene
K	Kalrez



 $_{\mbox{\scriptsize 3}}$ Only required for models prior to serial number prefix YU



PARTS FOR Z2000 MODEL PUMPS



Ref No.	RMI Part No.	Description	Qty.
1	4413	Case	1
2	4414 2	Cam	1
3	4416	Head	2
4	4417	Bearing Cap	2
5	1174-3	Relief Valve Cap	1
6	4282	Shim (Z2000, ZH2000)	1
7	4424	Cam Key	1
8	4425	Relief Valve	1
9	4426	Relief Valve Spring (Z2000, ZH2000)	1
10	4427 2	Sideplate	1
11	4428 1 2 3	Vane	6
12	4262-X _{1 2}	Vane Driver (Push Rod)	3
13	4430-X2R	Rotor-Shaft Assembly	1
1.4	4431-X_2 1 2 4	Mechanical Seal Assembly - cast iron	2
14	4431-X_6 4	Mechanical Seal Assembly - silicon carbide	2
15	4432 1 2	Thrust Bearing Assembly	2
16	4435 1 2	Bearing Race Mounting Ring	2
17	4438	Grease Seal	2
	4439 1 2	Bearing Cap Shim (.002) Red	As Req.
18	4439-1 1 2	Bearing Cap Shim (.010) Brown	As Req.
	4439-2 1 2	Bearing Cap Shim (.020) Yellow	As Req.
19	2754-X _{1 2}	Bearing	2
20	3253	Cam Key Pin	2

Ref No.	RMI Part No.	Description	Qty.
21	2760-244	Retainer Ring	2
22	4441 1 2	Grease Seal	2
23	2270 1 2	Shaft Key- 1/4" X 9/16"	2
24	4479-2	Flange -2" NPT	2
24	4479-2S	Flange -2" Welded	2
25	2649	Nameplate	1
26	4248	Relief Valve Nameplate (Z2000, ZH2000)	1
27	1359	Lubrication Instructions Plate	2
28	1343	1/8" NPT Relief Fitting	4
29	2158	1/8" NPT Grease Zerk	2
30	2159	Lubricap	2
31	3442	1/4" NPT Pipe Plug	2
32	2-231_ 1 2 4	O-Ring - Flange	2
33	2-224_ 1 2 4	O-Ring - Relief Valve Cap	1
34	2-261_ 4	O-Ring Case	2
35	7001-031-NC125A	Bolt - Hexagon Head	4
36	7001-037-NC150A	Bolt - Hexagon Head	16
37	7001-043-NC125A	Bolt - Hexagon Head	16
38	7012-006-SF025E	Screw	8
39	7206-037A	Lockwasher	8
40	4985	Shaft Protector	1
41	7012-010SF050E	Screw	2
	3193-X16	Repair Kit	1
	3194-X16	Rebuild Kit	1



¹ Included in repair kit

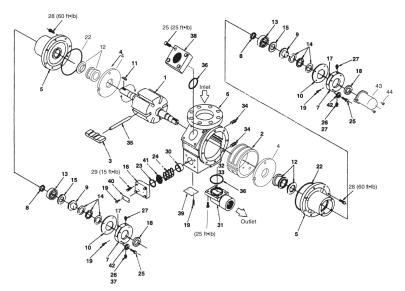
² Included in rebuild kit

³ Slots in vanes must face TOWARDS the direction of rotation

⁴ _ denotes material code



PARTS FOR Z3200 MODEL PUMPS



MATERIAL CODE

Α	Buna-N
В	Neoprene
D	Viton
Е	Teflon

- 4	l		
Ref No.	RMI Part No.	Description	Qty.
1	4995-X2R	Rotor Shaft Assembly	1
2	4242 2	Cam	1
3	4232 1 2 4	Vane	6
2	4231 2	Sideplate	2
5	4488	Head	2
6	4239	Case	1
7	4417	Bearing Cap	2
8	4438	Grease Seal	2
9	4435 1 2	Mounting Ring	2
	4439 1 2	Bearing Shim (.002) Red	As Req.
10	4439-1 1 2	Bearing Shim (.010) Brown	As Req.
	4439-2 1 2	Bearing Shim (.020) Yellow	As Req.
11	2270 1 2	Shaft Key	2
	4431-X_2 1 2 3	Mechanical Seal Assy – cast iron	2
12	4431-X_6	Mechanical Seal Assy - silicon carbide	2
13	2754 2	Bearing Outer Race	2
14	4432 1 2	Thrust Bearing Assembly	2
15	2760-244	Retainer Ring	2
16	1174-2	Relief Valve Cap	1
17	1359	Lubrication Instruction Plate	2
18	4441 1 2	Grease Seal	2
19	7012-006SF019E	Screw	8
22	2-262_ з	O-Ring - Case	2
23	2-224_ 1 2 3	O-Ring - Relief Valve Cap	1
24	1240	Relief Valve Spring	1
25	7001-037NC150A	Bolt 3/8" X 1-1/2" Hex Head	16
26	2158	1/8" NPT Grease Zerk	2
27	1343	1/8" NPT Relief Fitting	4
28	7001-050NC150A	Bolt - 1/2"-13 X 1-1/2" Hex Head	16

Ref No.	RMI Part No.	Description	Qty.
29	7001-031NC125A	Bolt - 5/16" -16 X 1-1/4" Hex Head	4
30	1241	Relief Valve	1
	1172-1.5	Outlet Flange – 1.5" NPT	1
	1172-1.5S	Outlet Flange - 1.5" WF	1
	1172-2	Outlet Flange - 2" NPT	1
31	1172-2S	Outlet Flange - 2" WF	1
	1947	Outlet Flange - 1.5" NPT ELL	1
	4243	Outlet Flange - 2" NPT ELL	1
	5520	Outlet Flange - 2" steel WF	1
32	4241	Cam Key	1
33	3253	Cam Key Pin	1
34	3442	1/4" NPT Pipe Plug	1
35	4262-X _{1 2}	Vane Driver	3
36	2-234_ 1 2 3	O-Ring-Flange	1
37	2159	Lubricap	2
	1172-1.5	Aux. Inlet Flange -1.5" NPT	1
	1172 - 1.5S	Aux. Inlet Flange -1.5" WF	1
38	1172-2	Aux. Inlet Flange -2" NPT	1
36	1172-2S	Aux. Inlet Flange -2" WF	1
	1920-3	Aux. Inlet Flange – Blind	1
	4243	Aux. Inlet Flange –2 NPT ELL	1
39	2649	Nameplate	1
40	4248	Relief Valve Nameplate	1
41	4242	Relief Valve Shim	As.Req.
42	7206-037A	3/8" Lockwasher	8
43	4985	Shaft Protector	1
44	7012-010SF050E	Screw	2
	3195-X16	Repair Kit	1
	3196-X16	Rebuild Kit	1



¹ Included in repair kit

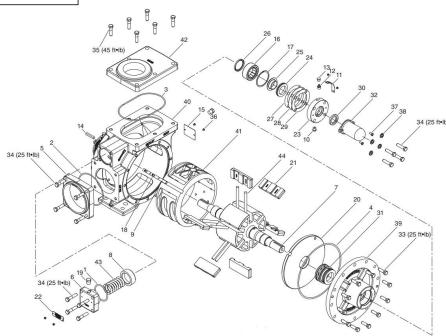
² Included in rebuild kit

³ _ denotes material code

⁴ Slots in vanes must face TOWARDS the direction of



PARTS FOR Z3500 MODEL PUMPS



MATERIAL CODE

A Buna-N		Buna-N
	В	Neoprene
	D	Viton
	Е	Teflon

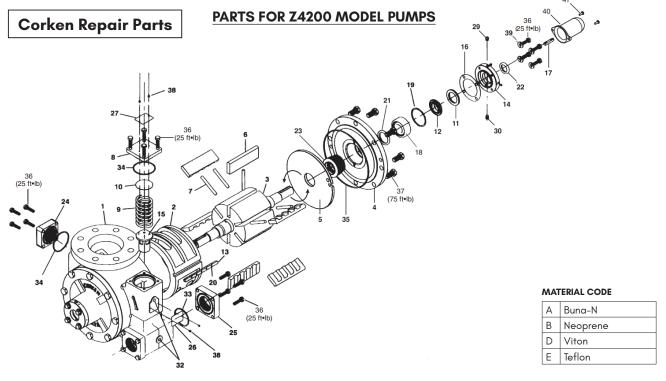
Ref No.	RMI Part No.	Description	Qty.
1	2-228_ 1 2 3	O-Ring	1
2	2-245_ з	O-Ring	1
3	2-259_ з	O-Ring	1
4	2-268_ з	O-Ring	2
	1206-3	Inlet Flange – 3" NPT	1
5	1206-4	Inlet Flange – 4" NPT	1
5	1206-3S	Inlet Flange – 3" WF	1
	1206-4S	Inlet Flange – 4" WF	1
6	1207-2	Relief Valve Cap	1
7	1208-1X6R	Rotor Shaft Assembly	1
8	1224	Relief Valve	1
9	1309	Cam Key	1
10	1343	Greese Relief Fitting	4
11	1359	Lubrication Plate	2
12	2158	Grease Zerk	2
13	2159	Lubricap	2
14	2270 1 2	Shaft Key - 1/4"	1
15	2649	Nameplate	1
16	2754-X ₂	Roller Bearing	2
17	2760-244	Retainer Ring	2
18	3253	Cam Key Pin	2
19	3442	Pipe Plug - 1/4" NPT	2
20	3935 2	Sideplate	2
21	3936 1 2 4	Vane	6
22	4248	Relief Valve Warning Tag	1
23	4417	Bearing Cap	2
24	4432 1 2	Thrust Bearing Assembly	2

Ref No.	RMI Part No.	Description	Qty.
25	4435 1 2	Thrust Bearing Mounting Ring	2
26	4438	Grease Seal/Oil Seal	2
27	4439 1 2	Bearing Cap Shim - 0.002"	2
28	4439-1 1 2	Bearing Cap Shim - 0.010"	2
29	4439-2 1 2	Bearing Cap Shim - 0.020"	2
30	4441 1 2	Grease Seal	2
71	6660-X_2 ₃	Mechanical Seal Assembly - Cast Iron	2
31	6660-X_6 ₃	Mechanical Seal Assembly - Silicon Carbide	2
32	4985	Coro-Vane Shaft Cover	1
33	7001-037NC125A	Hex Head Bolt	24
34	7001-037NC150A	Hex Head Bolt	16
35	7001-043NC150A	Hex Head Bolt	6
36	7012-006SF019E	Screw	9
37	7012-010SF050E	Screw	2
38	7206-037A	Lockwasher - 0.375"	8
39	5534	Head	2
40	5537	Case	1
41	5539 2	Cam	1
40	5538	Outlet Flange - 3" NPT Elongated	1
42	5538-3S	Outlet Flange - 3" WF Elongated	1
43	5548	Spring	1
44	5554-X _{1 2}	Vane Driver	6
	3195-X26	Repair Kit	1
	3196-X26	Rebuild Kit	1

- 1 Included in repair kit
- 2 Included in rebuild kit
- 3 _ denotes material code
- ${\bf 4}$ Slots in vanes must face TOWARDS the direction of rotation







Ref No.	RMI Part No.	Description	Qty.
1	4442	Case	1
2	4443 2	Cam	1
3	4444-X2R	Rotor-Shaft Assembly	1
4	4445	Head	2
5	4446 2	Sideplate	2
6	4448 1 2 4	Vane	6
7	4449-X _{1 2}	Vane Driver	5
8	4450	Relief Valve Cap	1
9	4451	Relief Valve Spring	1
10	4452	Shim	1
11	4453 1 2	Thrust Bearing Assembly	2
12	4454 1 2	Bearing Race Mounting Ring	2
13	4455	Cam Key	1
14	4456	Bearing Cap	2
15	4457	Relief Valve	1
	4458	Bearing Cap Shim (.002) Red	As Req.
16	4458-1 1 2	Bearing Cap Shim (.010) Brown	
	4458-2 1 2	Bearing Cap Shim (.020) Yellow	
17	4459 1 2	Shaft Key - 5/16 x 1-3/4	1
18	4460-X _{1 2}	Roller Bearing	2
19	2760-283	Retainer Ring	2
20	3253	Cam Key Pin	5
21	4462	Grease Seal	2
22	4463 1 2	Grease Seal	2
	4464-X_2 1 2 3	Mechanical Seal Assy - Cast Iron	2
23	4464-X_6	Mechanical Seal Assy - Silicon Carbide	2
	1172-2	Aux. Inlet Flange - 2" NPT	
24 1172-2S		Aux. Inlet Flange - 2" WF	1
	1920-3	Aux. Inlet Flange - Blind	1

Ref No.	RMI Part No.	Description	Qty.
25	4479-2 5	Discharge Flange - 2" NPT	2
25	4981-2	Discharge Flange - 2" NPT	2
26	2649	Nameplate	1
27	4248	Relief Valve Nameplate	1
28	1359	Lubrication Instruction Plate	2
29	1343	1/8" NPT Relief Fitting	2
30	2158	1/8" NPT Grease Zerk	2
31	2159	Lubricap	2
32	3442	1/4" NPT Pipe Plug	2
33	2-231_ 1 2 3	O-Ring - Discharge Flange	2
34	2-234_ 1 2 3	O-Ring - Aux. Inlet Flange	1
35	2-270_ з	O-Ring - Case	2
36	7001-037NC150A	Bolt - Hex Head	24
37	7001-062NC125A	Bolt - Hex Head	16
38	7012-006SF019E	Screw	8
39	7206-037A	Lockwasher	8
40	4985	Shaft Protector	1
41	7012-010SF050E	Screw	2
	3197-X16	Repair Kit	1
	3198-X16	Rebuild Kit	1

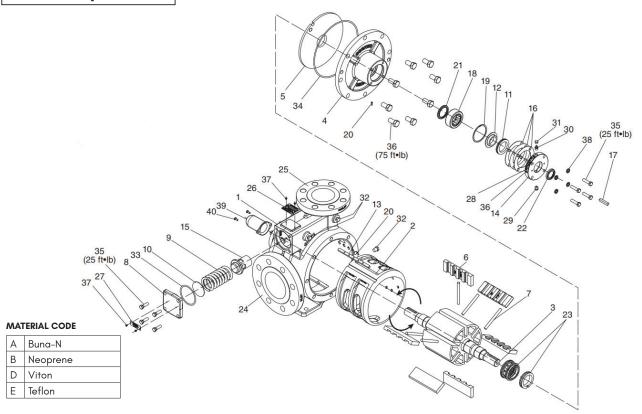
- 1 Included in repair kit
- 2 Included in rebuild kit
- 3 _ denotes material code
- 4 Slots in vanes must face TOWARDS the direction of rotation
- 5 For units built prior to January 1998



4463 1

Grease Seal

PARTS FOR Z4500 MODEL PUMPS



Ref No.	RMI Part No.	Description		Ref No.	RMI Part No.	Description	Qty.
1	5522	Case		1 23	4464-X_2 ₃	Mechanical Seal Assy - Cast Iron	2
2	4443 1 2	Cam		1 23	4464-X_6 _{1 3}	Mechanical Seal Assy - Silicon	2
3	4444-X2R	Rotor-Shaft Assembly		1	4404-7_013	Carbide	
4	4445	Head		2 24		Inlet Flange - 4" ANSI	1
5	4446 1 2	Sideplate		2 25		Outlet Flange – 3" ANSI	1
6	4448 1 4	Vane		6 26	2649	Nameplate	1
7	4449-X 1	Vane Driver		5 27	4248	Relief Valve Nameplate	1
8	4450	Relief Valve Cap		1 28	1359	Lubrication Instruction Plate	2
9	4451	Relief Valve Spring		1 29	1343	1/8" NPT Relief Fitting	2
10	4452	Shim		1 30	2158	1/8" NPT Grease Zerk	2
11	4453 1	Thrust Bearing Assembly		2 3	2159	Lubricap	2
12	4454 1	Bearing Race Mounting Ring		2 32	3442	1/4" NPT Pipe Plug	2
13	4455	Cam Key		1 33	2-234_ 1 3	O-Ring - Relief Valve	1
14	4456	Bearing Cap		2 34	2-270_ з	O-Ring - Case	2
15	4457	Relief Valve		1 35	7001-037NC150A	Bolt – Hex Head	16
	4458 1	Bearing Cap Shim (.002) Red	As	Req ^{3,6}	7001-062NC125A	Bolt – Hex Head	16
16	4458-1 1	Bearing Cap Shim (.010) Brown		37	7012-006SF019E	Screw	8
	4458-2 1	Bearing Cap Ship (.020) Yellow		38	7206-037A	Lockwasher	8
17	4459 1	Shaft Key - 5/16 x 1-3/4		1 39	4985	Shaft Cover	1
18	4460-X 1	Roller Bearing		2 40	7012-010SF050E	Screw	2
19	2760-283	Retainer Ring		2	3197-X16	Repair Kit	1
20	3253	Cam Key Pin		5	3198-X16	Rebuild Kit	1
21	4462	Grease Seal		2		Lu	
	-		+		Included in repair	kit	

¹ Included in repair kit



² Included in rebuild kit

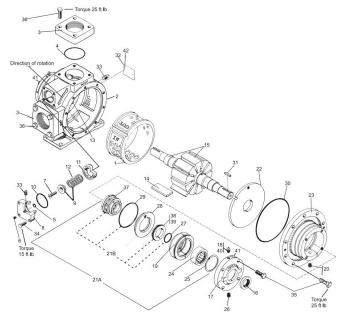
³ _ denotes material code

 $_{\mbox{\scriptsize 4}}$ Slots in vanes must face TOWARDS the direction of rotation



PARTS FOR FF060, FF075, & FF150 MODEL CORO-FLO PUMPS

Ref No.	RMI Part No.	Description	Qty.
1	1162-2	Cam (521)	1
1	1201-2	Cam (1021)	1
	2832	Case (521)	1
2 2841		Case (1021)	1
	1172-2.5	Flange - 2-1/2" (521)	1
3	1172-2	Flange - 2" (521)	1
	1206-34	Flange - 3" (1021)	2
4	2-234_ 1 3	Flange O-Ring (521)	2
4	2-245_ 2 3	Flange O-Ring - 3" (1021)	2
5	2-112_ 1 2 3	Adjusting Screw O-Ring	1
6	2590	Flush Plug - 1/8" NPT	1
7	2252	Relief Valve Adjusting Screw	1
0	1174	Valve Cap (521)	1
8	1207	Valve Cap (1021)	1
9	1242-X	Relief Valve Spring & Guide (521)	1
У	1227	Relief Valve Spring & Guide (1021)	1
10	2-224_ 1 3	Relief Valve Cap O-Ring (521)	1
10	2-228_ 2 3	Relief Valve Cap O-Ring (1021)	1
11	1241	Relief Valve (521)	1
11	1224	Relief Valve (1021)	1
10	1242	Relief Valve Spring (521)	1
12	1226	Relief Valve Spring (1021)	1
17	1170 Cam Key (521)		1
13	1309	Cam Key (1021)	1
14	1168-7 1	Blade (521)	10
14	1308-9 2	Blade (1021)	10
16	1166-1X1R	Rotor & Shaft Assy (521)	1
15	1208-1X1R	Rotor & Shaft Assy (1021)	1
16	1358 2	Grease Seal	2
17	1164-1	Bearing Cap	2
18	2158	Grease Zerk - 1/8" NPT	2
19	1769	Bearing Housing	2
20	1343	Seal Vent Relief Fitting - 1/8" NPT	2
21A	1769-X_6 _{3 4}	Complete Seal Assy Kit	2
21B	1769-XR_6 1 2 3 5	Seal Assy Field Repl Kit	2
22	1163-2 1	Sideplate (521)	2
	1209-1 2	Sideplate (1021)	2
27	1161-4	Head (521)	2
23	1205-4	Head (1021)	2
	2754-X _{1 2}	Roller Bearing - Complete	2
24	2755	Bearing Inner Race	2
	2754	Bearing Outer Race	2
25	2760-244	Retainer Ring	2
26	1343	Grease Relief Fitting - 1/8" NPT	2
27	2-128A	Shaft O-Ring - Buna-N	2
28	1882	Seat Adapter Plate	2



Ref No.	RMI Part No.	Description	Qty.
29	2-240_ з	Adapter Plate O-Ring	2
30	2-261_ 1 3	Case O-Ring (521)	2
50	2-268_ 2 3	Case O-Ring (1021)	2
31	2270	Key - 1/4"	2
32	2949	Nameplate	1
33	3442	Plug - 1/4" NPT	1
34	7001-031NC125A	Hex Head Bolt - 5/16-18 x 1-1/4 (521)	4
54	7001-037NC125A	Hex Head Bolt - 3/8-16 x 1-1/4 (1021)	4
35	7001-037NC125A	Hex Head Bolt - 3/8-16 x 1-1/4 (521)	28
55	7001-037NC125A	Hex Head Bolt - 3/8-16 x 1-1/4 (1021)	32
36	7001-037NC150A	Hex Head Bolt - 3/8-16 x 1-1/2	8
37	6	Retainer	2
38	6	Seal Seat	2
39	2-227_ 1 3	Seal Seat O-Ring	2
40	2159	Lubricap #2	2
41	1359	Lubrication Instruction Tag	2
42	7003-004DR0198	Round Head Drive Screw - 4 x 3/16	2
	2904-X26	Repair Kit (521)	1
	2906-X26	Repair kit (1021)	1

MATERIAL CODE

Α	Buna-N
В	Neoprene
D	Viton
Е	Teflon



¹ Included in 521 repair kit

² Included in 1021 repair kit

³ _ denotes material code

⁴ Includes Bearing Housing, Seat Adaptor Plate, Bearings, Retainer Rings, Seal, & O-Rings

₅ Includes Seal & O-Rings

⁶ Not sold seperately. Included in 1769-X_6 & 1769-XR_6



SMITH D SERIES CYLINDER FILLING PUMPS

Economical pump for low-volume filling applications.

- Built-in bypass (set @ 90PSID)
- Built-in strainer
- Superseal mechanical seal

RMI Part No.			Сар	acity	Inlet /	
Pump Motor, & Switch	Pump Only	Motor Only	40 PSID	70 PSID	Outlet	Motor
DW1ZM-3	DW-1Z	EM-1-3	8.5	7	3/4"	1HP, 1PH 115/230V
DWHZM-5	DW-HZ	EM- 1.5-3	13.5	12	1"	1.5HP, 1PH 115/230V



D SERIES

SMITH E SERIES PUMPS

Economical cylinder pump for low-volume liquid transfer. Can be used with internal combustion engines for portable liquid transfer applications. Can be used with built-in bypass or utilize separate external bypass.

- Built-in Bypass (Set @ 90PSID)
- Built-in Strainer
- Superseal Mechanical Seal

R/M	•	Сар	acity	Inlet /			
Pump, Motor, & Switch	Pump Only	Motor Only	40 PSID	70 PSID	Outlet	Motor	
EG1ZM-1-3DR	EG-1Z	EM-1-3B	8.5	7	3/4"	1HP 1PH	
EG1Z-7H	EG-1Z	GAS-7H	8.5	7	3/4"	3.5HP Honda	
ECHZM-5DR	EC-HZ	EM-5B	13.5	12	1"	1.5HP 1PH	
ECHZ-5	EC-HZ	EM-1.5-3	13.5	12	1"	3.5HP Honda	



SMITH MEDIUM & LARGE CAPACITY PUMPS

Higher capacity pumps for multiple cylinder or truck filling applications.

- Balanced 3-Gear Design
- Superseal Technology
- No Lubrication Required
- Direct Coupled No Belts

RMI Pa	Сар	acity	Inlet /		
Pump & Baseplate	Pump Only	40 PSID	70 PSID	Outlet	Motor
MC1044Z-B	MC1044Z	17	14	1-1/2"	2 HP
MC1044HZ-B	MC1044HZ	30	25	1-1/2"	3 HP
MC2Z-B	MC2Z	42	35	2-1/2"	5 HP
MC2QZ-B	MC2QZ	48	38	2-1/2"	7.5 HP
MC3Z-B	MC3Z	84	70	2-1/2"	7.5 HP



SMITH AUTOGAS PUMPS

- Developed for Autogas vehicles requiring higher than normal differential pressure
- Balanced loading design with hardened gears
- Superseal is standard
- 3/4" inlet and outlet allows for economical installation
- 1HP and 1.5HP motors only require single phase power

RMI P	art No.	Сар	acity	Inlet /	Motor	
Pump Only	Motor Only	40 PSID 70 PSID		Outlet	Notor	
GC-1ZL	EM-1.5-3B	8.5	7	3/4"	1.5HP 1PH	

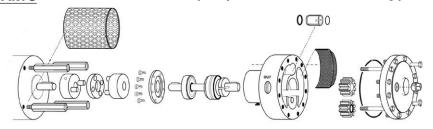






SPARE PARTS

*Must specify serial number when ordering parts



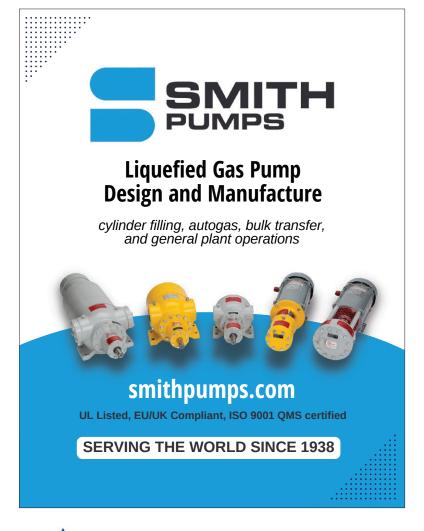
December	Pump Model							
Description	DW-1Z	DW-HZ	EG-1Z	EC-HZ	GC-1ZL	MC-1044Z	MC-1044HZ	
Shaft Seal Assembly	E-100Z	E-100HZ	E-100Z	E-100HZ	MC-100Z	MC-101Z	MC-101Z	
Drive Gear	EG-5	EC-5H	EG-5	EG-5H	649-5LZ	1044-89-8	1044-89-6	
Idler Gear W/Bushing	EG-6	EC-6H	EG-6H	EG-6H	649-6LZ	1044-90-8	T-6	
By-Pass Valve Cartridge	E-20 ASSY	E-20 ASSY	E-20 ASSY	E-20 ASSY	-	-	-	
Strainer Screen	D-21	D-21	E-21	E-22	-	-	-	
Cover O-Ring	6230-14	6230-14	6230-28	6230-28	-	-	-	
Shaft Bushing	-	-	-	-	649-11	TS-11	TS-11	
O-Ring for Shaft Bearing	-	-	-	-	-	6227-19	6227-19	
Complete Drive Coupling*	VC-20	VC-20	VC-20	VC-30	VC-20	-	-	
Coupling Insert	FD-20	FD-20	FD-20	FD-30	FD-20	-	-	

^{*}Must provide bore size.

SMITH PUMP & SEAL ASSEMBLY EXCHANGE PROGRAM

Contact RMI Customer Service for details on our exchange program for Smith pumps and seal assemblies. When replacing a Smith pump, you may return the old unit for credit against a factory rebuilt unit with one (1) year warranty.

Order the Following	Return the Following for Credit		
Exchange Pump Part Number	Core Part Number		
DW1Z-EX (DW-1Z)	DW1Z-RTV		
DWXZ-EX (DW-HZ	DWXZ-RTV		
EG1Z-EX (EG-1Z	EG1Z-RTV		
ECHZ-EX (EC-HZ)	ECHZ-RTV		
MC1044Z-EX (MC-1044Z)	MC1044Z-RTV		
MC1044HZ-EX (MC- 1044HZ)	MC1044HZ-RTV		
MC2Z-EX (MC27)	MC2Z-RTV		
MC2QZ-EX (MC2QZ)	MC2QZ-RTV		
MC3Z-EX (MC3Z)	MC3Z-RTV		
MCAT3R-EX (MCAT3XR)	MCAT3R-RTV		
MCAT3L-EX (MCAT-3LX)	MCAT3L-RTV		
Seal	Kits		
E100Z-EX	E100Z-RTV		
E100HZ-EX	E100HZ-RTV		









VARIABLE FREQUENCY DRIVES

A variable frequency drive (VFD) is a type of motor controller that drives an electric motor by varying the frequency and voltage of its power supply. The VFD also has the capacity to control ramp-up and ramp-down of the motor during start or stop, respectively. If you currently have single phase power, using a VFD gives the option to purchase a three phase motor which is considerably less cost than a single phase motor.

- · Converts single phase power to three phase power
- Takes the place of a manual or magnetic starter for the pump
- Improves the efficiency of the motor and reduces power use
- · Slows motor start-up, preventing surges and prolonging motor life
- Provides overload protection for the motor

RMI Part No.	Description
4204-2	20HP VFD for 10 HP 1 Phase Motor
4204-6X1	VFD 3HP 230V W/NEMA 3R



VFD

EXPLOSION PROOF SWITCHES & STARTERS FOR PROPANE INSTALLATIONS

Starter choice must be matched to motor horsepower, voltage, and power phase.

- Standard on-off switch with explosion proof box for motors with low ampere electric service (does not provide over-load protection)
- Manual starter provides overload starter protection, explosion proof enclosure with lever lock and pad lock feature. Economical control for medium ampere electrical service range
- Magnetic starter provides starter protection, explosion proof enclosure and magnetic circuit contacts. Excellent control for larger motor

SINGLE PHASE SERVICE

Motor	Switch, On-Off		Manual	Manual Starter		Magnetic Starter	
HP	115V	230V	115V	230V	115V	230V	
1	XS-52C	XS-52C	609-AHX	609-AHX	509-AHXD	509-AHXA	
1.5	-	-	609-BHX	609-AHX	509-BHXD	509-AHXA	
2	-	-	609-BHX	609-AHX	509-BHXD	509-AHXA	
3	-	-	609-XHX	609-BHX	509-XHXD	509-BHXA	
5	-	-	-	609-XHX	-	509-XHXA	

THREE PHASE SERVICE

Motor	Switch,	Switch, On-Off		Manual Starter		c Starter
HP	230V	460V	230V	460V	230V	460V
1-1.5	XS-58C	XS-52C	-	-	-	-
2	-	-	609-AHW	609-AHW	509-AHA	509-AHB
3	-	-	609-AHW	609-AHW	509-AHA	509-AHB
5	-	-	609-BHW	609-AHW	509-BHA	509-AHB
7.5	-	-	609-BHW	609-BHW	509-BHA	509-BHB
10	_	_	_	609-BHW	509-CHA	509-BHB
15	_	_	-	_	509-CHA	509-CHB



XS-52C



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Motors & Starters

MOTORS

1 PHASE - C FACE 1725 RPM

RMI	НР	Frame	Shaft	Voltage	AMP I	Rating
Part No.	пг	Size	Snarr	voirage	115V	230V
EMC-1	1	56C	5/8"	115/230	11.2	5.6
EMC - 1.5	1.5	56C	5/8"	115/230	12	6
EMC-2	2	184C	7/8"	115-208/230	22	11.6
EMC-3	3	215C	1-1/8"	115/230	30	15
EMSC-5	5	184TC	1-1/8"	230		21

3 PHASE - C FACE 1725 RPM

RMI	НР	Frame	Shaft	Valtana	AMP I	Rating
Part No.	пР	Size	Snarr	Voltage	115V	230V
EMCT-1	1	56C	5/8"	208-230/460	3.6	1.8
VXM051542	1.5	56C	5/8"	208-230/460	4.6	2.3
EMCT-2	2	56C	5/8"	230/460	6	3
EMCT-3	3	182TC	1-1/8"	230/460	8.2	4.1
EMC-5	5	184TC	1-1/8"	230/460	13.6	6.8
EMCT-7.5	7.5	213TC	1-3/8"	203/460	20.2	10
EMCT-10	10	215TC	1-3/8"	230/460	26	13

C FACE 3600 RPM FOR CORKEN C MODEL PUMPS

RMI	НР	Frame	Shaft	Voltage	AMP I	Rating
Part No.	пР	Size	Snarr	voirage	115V	230V
2556	1	C10/C12	1	208-230/460	12	6
42361	1.5	C12/C13	1	208-230/460	20	10
2557	2	C14	1	230/460	4	8

1 PHASE RIGID BASE 1725 RPM

RMI	RMI HP		Shaft	Voltanas	AMP Rating	
Part No.	пР	Size	Shaft Voltage		115V	230V
EMS-1	1	143T	5/8"	115/230	14	7
EMS-1.5	1.5	184	7/8"	115/230	19	9.5
EMS-2	2	182T	1-1/8"	115/230	22	11
EMS-3	3	215	1-1/8"	115/230	30	15
EMS-5	5	215	1-1/8"	115/230		26

1 PHASE RIGID BASE 3450 RPM

RMI	НР	Frame	ne Shaft Voltage		AMP I	Rating
Part No.	пг	Size	Snarr	voirage	115V	230V
EMSF-1	1	56	5/8"	115/230	12	6
EMSF-1.5	1.5	145T	7/8"	115-208/230	23	11.5
EMSF-2	2	184T	1-1/8"	115/230	29	14.5
EMSF-3	3	184T	1-1/8"	230	30	28

3 PHASE RIGID BASE 1725 RPM

RMI Part	НР	Frame	Cl (t	Shaft Voltage		Rating
No.	пР	Size	Snatt	Voltage	115V	230V
EM-1	1	143T	5/8"	208-230/460	3.6	1.8
EM-1.5	1.5	145T	7/8"	230/460	4.4	2.2
EM-2	2	145T	7/8"	230/460	5.8	2.9
EM-3	3	182T	1-1/8"	230/460	8.4	4.2
EM-5	5	184T	1-1/8"	230/460	13.4	6.7
EM-7.5	7.5	213T	1-3/8"	230/460	17.2	8.6
EM-10	10	215T	1-3/8"	230/460	24	12
EM-15	15	254T	1-5/8"	230/460	36	18
EM-20	20	256T	1-5/8"	230/460	48	24
EM-25	25	284T	1-7/8"	230/460	61	30.5
EM-30	30	286T	1-7/8"	230/460	72	36

3 PHASE RIGID BASE 3600 RPM

RMI	НР	Frame	Shaft	Voltage	AMP I	Rating
Part No.	пР	Size	Snarr	voirage	115V	230V
EMF-1	1	143T	5/8"	208-230/460	3.6	1.8
EMF-2	2	145T	7/8"	230/460	4.8	2.4
EMF-3	3	145T	7/8"	230/460	7.2	3.6
EMF-5	5	184T	1-1/8"	230/460	11.8	5.9
EMF-7.5	7.5	213T	1-1/8"	230/460	16.8	8.4
EMF-10	10	215T	1-3/8"	230/460	23.6	11.8









BLACKMER BYPASS VALVES

Blackmer® BV Series bypass valves have no small, easily plugged, sensing passages; and with only two moving parts, their operation is simple and reliable. They open precisely at the pre-set spring pressure, and they close smoothly and quietly.

In operation, Blackmer valves provide exceptionally close pressure control, even under widely varying bypass flow conditions. The Blackmer valve maintains a virtually constant pressure of 100 psi (6.89 bar) even as the volume being bypassed rises from 10 GPM to 100 GPM.

RMI Part No.	Body Size	Pump Size	PSI Setting*	PSI Range*	Cap. (GPM)
BV-3/4	3/4" NPT	1-1/4" to 1-1/2"	95	70-100	50
BV-1	1" NPT	1-1/4" to 1-1/2"	95	70-100	50
BV-1-1/4	1-1/4" NPT	1-1/2" to 2"	115	90-125	125
BV- 1-1/2	1-1/2" NPT	2" to 3"	115	90-125	125
BV-2	2" NPT	3" to 4"	95	90-125	225

^{*}Other pressure ranges and settings are available



BV SERIES

CORKEN BYPASS VALVES

Dual purpose automatic priming and differential bypass valve. Allows vapor to return to the tank, keeping the line primed.

RMI Part No.	Description	Cap. (GPM)	Standard Spring Setting
B16675	3/4" Bypass Valve	30	50-150 PSI
B166-1	1" Bypass Valve	40	50-150 PSI
T166-1.25	1-1/4" Bypass Valve	80	50-150 PSI
T166-1.5	1-1/2" Bypass Valve	100	50-150 PSI



CORKEN 2" HIGH CAPACITY BYPASS VALVE

A low-pressure build-up bypass valve designed for applications that require protection for positive displacement pumps. It is ideal for capacities up to 250 gpm (56.8 m3/hr). The model ZV200 has a continuous internal bleed that helps operate systems containing an "air" or "electric" operated internal valve.

RMI Part No.	Description	Cap. (GPM)	Standard Spring Setting
ZV200	2" Bypass	180-250	91-125 PSI



ZV200

SMITH BYPASS VALVES

Chatter-free due to unique guide-piston design. Stainless steel piston and spring. All valves have 25-125 PSIG range.

RMI Part No.	Inlet / Outlet	Capacity (GPM)
WW-120	1/2"	10
WW-340	3/4"	15
WW-100	1"	35
WW-114	1-1/4"	50
WW-112	1-1/2"	100
WW-200	2"	150
WW-212	2-1/2"	250



SMITH BYPASS VALVES





Bypass Valves

FISHER N110 SERIES STRAIGHT BYPASS VALVES FOR SMALL PUMPS

Intended for bypass service on smaller pumps (5 to 40 GPM) used on stationary tanks or delivery trucks.

RMI Part No.	Pump Size	Pressure Setting, PSI	Pressure Range, PSI
N110-06-1	3/4"	50	25-75
N110-06-2	3/4"	115	75-150
N110-08-1	1"	50	25-75
N110-08-2	1''	115	75-150



FISHER N100 SERIES ANGLE BYPASS VALVES FOR LARGE PUMPS

Gives rapid, stable liquid transfer and reduces dangerous pressure pulsations. Includes 1/4" tapping for gauge or relief valve.

RMI Part No.	Pump Size	Pressure Setting, PSI	Pressure Range, PSI
N100A-08-2	1"	115	50-150
N100A-10-2	1-1/4"	115	50-150
N100A-12-2	1-1/2"	115	50-150
N100-16-1	2"	50	25-75
N100-16-2	2"	115	50-150



FISHER N120 SERIES BACK PRESSURE VALVES

Valve is installed after the meter and remains closed until vapor is forced back to the tank through the vapor eliminator so that vapor cannot form within the meter during liquid delivery. Intended for smaller pumps used for cylinder filling installations.

RMI Part No.	Size	Diff. Press. Setting, (PSI)	Diff. Press. Range (PSI)
N120-06-3	3/4"	12	10-20
N120-08-3	1"	12	10-20



FISHER MR98H RELIEF VALVES FOR LIQUID SERVICE

The MR98H is a self-operated relief valve for use on relief and back pressure applications involving large liquid propane pumping systems and vaporizers. Internal pressure registration eliminates the need for a control line.

RMI Part No.	Body Size	Relief Setting Range	Relief Pressure Setting
MR98H-17*	1/2" FNPT	25-75 PSIG	50 PSIG
MR98H-18*	1/2" FNPT	70-140 PSIG	100 PSIG
MR98H-22**	3/4" FNPT	70-140 PSIG	100 PSIG
MR98H-30**	1" FNPT	70-140 PSIG	100 PSIG

^{*}Metal diaphragm & seat

^{**} Composition diaphragm & seat







Bypass Valves

MARSHALL EXCELSIOR BYPASS VALVES FOR DISPENSING APPLICATIONS

Intended for use in small cylinder filling applications as a bypass and primer valve for turbine style dispensing pumps. These bypass valves feature a special "check ball" mechanism that helps eliminate vapor from liquid while keeping the pump flooded and properly primed.

RMI Part No.	Description	Standard Spring Setting
ME840-6-150	3/4" FNPT High Flow Bypass Valve	50-150 PSI
ME840-6-225	3/4" FNPT High Flow Bypass Valve	100-225 PSI
ME840-8-150	1" FNPT High Flow Bypass Valve	50-150 PSI
ME840-8-225	1" FNPT High Flow Bypass Valve	100-225 PSI

^{*}Alternate Spring Ranges Available

MARSHALL EXCELSIOR HIGH FLOW 3" BYPASS VALVES FOR PLANT APPLICATIONS

Specifically designed for plant systems where maximum bypass flow is necessary to protect the pump from rapid pressure changes or over pressurization. Perfectly suited for 4" base mount pumps or larger pump applications.

RMI Part No.	Description	Standard Spring Setting
ME840-24-100	3" FNPT High Flow Bypass Valve	50-100 PSI
ME840-24-200	3" FNPT High Flow Bypass Valve	100-200 PSI
ME840-24-3F-100	3" - 300# Flanged High Flow Bypass Valve	50-100 PSI
ME840-24-3F-200	3" - 300# Flanged High Flow Bypass Valve	100-200 PSI

^{*} Alternate Spring Ranges Available



ME840-6-150

MARSHALL EXCELSIOR HIGH FLOR BYPASS VALVES FOR BOBTAIL & PLANT APPLICATIONS

These bypass valves are specifically designed to protect truck and plant pumps from damage due to excessive pressure. They feature wide open flow channels with an orifice weep hole chamber to prevent the valve from slamming open/closed. The weep hole chamber also helps prevent valve seat chatter by allowing constant pressure communication between both the upstream and downstream side of the seat.

BYPLASS VALVES - NPT FLANGE CONFIGURATION

RMI Part No.			Standard	Elamas
WCC A216 Steel	CF8M Stainless Steel	Description	Spring Range	Flange Type
ME840-10-125	ME840SS-10-125	11/4" FNPT High Flow Bypass Valve	00 105 DCI	O Diana Canal
ME840C-10-125	ME840SSC-10-125	11/4" FNPT Classic Flow Bypass Valve	90-125 PSI	O-Ring Seal
MW840-12-125	ME840SS-12-125	11/2" FNPT High Flow Bypass Valve	90-125 PSI	O-Ring Seal
ME840C-12-125	ME840SSC-12-125	11/2" FNPT Classic Flow Bypass Valve	90-125 PSI	
ME840-16-125	ME840SS-16-125	2" FNPT High Flow Bypass Valve	00 105 001	O-Ring Seal
ME840C-16-125	ME840SSC-16-125	2" FNPT Classic Flow Bypass Valve	90-125 PSI	
ME840-125	ME840SS-125	11/4" - 2" Universal High Flow Bypass w/o Flanges	90-125 PSI	Flat Face
ME840C-125	ME840SSC-125	11/4" - 2" Universal High Flow w/o Flanges	90-125 PSI	Flat Face

^{*}Alternate Spring Ranges Available

BYPLASS VALVES - SOCKET WELD FLANGE CONFIGURATION

RMI Part No.			Standard	Flange
WCC A216 Steel	CF8M Stainless Steel	Description	Spring Range	Type
ME841-10-125	ME841SS-10-125	11/4" Weld Flange High Flow Bypass Valve	90-125 PSI	O-Ring
ME841C-10-125	ME841SSC-10-125	11/4" Weld Flange Classic Flow Bypass Valve	90-123 P3I	Seal
ME841-12-125	ME841SSC-12-125	11/2" Weld Flange High Flow Bypass Valve	90-125 PSI	O-Ring
ME841C-12-125	ME841SSC-12-125	11/2" Weld Flange Classic Flow Bypass Valve	90-125 PSI	Seal
ME841-16-125	ME841SS-16-125	2" Weld Flange High Flow Bypass Valve	90-125 PSI	O-Ring
ME841C-16-125	ME841SSC-16-125	2" Weld Flange Classic Flow Bypass	90-125 PSI	Seal

^{*}Alternate Spring Ranges Available



FLANGE KITS

RMI Part No.	Description
ME841-10F	11/4" Socket Weld Flange Kit
MEP840-10	11/4" Threaded 90° Flange Kit
MEP841-10	11/4" Socket Weld 90° Flange
MEP841-12F	11/2" Socket Weld Flange Kit
MEP840-12	11/2" Threaded 90° Flange Kit
MEP841-12F	11/2" Socket Weld 90° Flange
ME841-16F	2" Socket Weld Flange Kit
MEP840-16	2" Threaded 90° Flange Kit
MEP841-16	2" Socket weld 90° Flange

ME840-16-125





Bypass Valves

MARSHALL EXCELSIOR VERSA-FILL HIGH FLOW BYPASS VALVES FOR BOBTAIL APPLICATIONS

Versa-Fill bypass valves are designed to protect pumps from damage due to excessive pressure while providing flow, adjustability, versatility and performance of the pumping system.

Versa-Fill has three settings and functions: normal bypass, auxiliary suction evacuation/self-load and small cylinder/forklift-filling.

VERSA-FILL™ BYPASS VALVES - NPT FLANGE CONFIGURATIONS

RMI P	art No.			Standard
WCC A216 Steel	CF8M Stainless Steel	Description	Poppet Type	Spring Range
ME845-125	ME845SS-125	1-1/4" - 2" Versa-Fill Bypass Valve w/0 Flnges	Standard/High Flow	
ME845C-125	ME845SSC-125		Classic Flow	
ME845-10-125	ME845SS-10-125	1.1/4" ENDT. \	Standard/High Flow	
ME845C-10-125	ME845SSC-10-125	1-1/4" FNPT Versa-Fill Bypass Valve	Classic Flow	90-125 PSI
ME845-12-125	ME845SS-12-125	1 1/0" FNDT \/ F: D \/	Standard/High Flow	90-125 PSI
ME845C-12-125	ME845SSC-12-125	1-1/2" FNPT Versa-Fill Bypass Valve	Classic Flow	
ME845-16-125	ME845SS-16-125	O" FNDT // FILD // I	Standard/High Flow	
ME845C-16-125	ME845SSC-16-125	2" FNPT Versa-Fill Bypass Valve	Classic Flow	

^{*} Alternate Spring Ranges Available

VERSA-FILL™ BYPASS VALVES - WELD FLANGE CONFIGURATIONS

RMI Part No.			Standard	
WCC A216 Steel	CF8M Stainless Steel	Description	Spring Range	
ME846-10-125	ME846SS-10-125	1-1/4" Weld Flange High Flow Versa-Fill Bypass Valve		
ME846-12-125	ME846SS-12-125	1-1/2" Weld Flange High Flow Versa-Fill Bypass Valve		
ME846-16-125	ME846SS-16-125	2" Weld Flange High Flow Versa-Fill Bypass Valve	90-125 PSI	
ME846C-10-125	ME846SSC-10-125	1-1/4" Weld Flange Classic Flow Versa-Fill Bypass Valve	90-123 PSI	
ME846C-12-125	ME846SSC-12-125	1-1/2" Weld Flange High Flow Versa-Fill Bypass Valve		
ME846C-16-125	ME846SSC-16-125	2" Weld Flange High Flow Versa-Fill Bypass Valve		



ME845 SERIES

MARSHALL EXCELSIOR BACKPRESSURE REGULATORS/RELIEF VALVES

Marshall Excelsior liquid service valves are direct operated relief valves for use on relief and backpressure applications involving large LPG pumping systems and vaporizers.

	Inlet /	Outlet Dans	Relief Pressure	Relief Capacity	
RMI Part No.	Outlet Size	Outlet Range (PSIG)	Setting (PSIG)	10 PSI Over Set Point	50 PSI Over Set Point
MEGR-198H/22	3/4"	70-140	100	49	93
MEGR-198H/30	1"	70-140	100	49	93
MEGR-198H-31	1"	130-200	175	52	109



^{*}Alternate Spring Ranges Available