



HYDRAULIC & MECHANICAL POWER
Standard G-Series Electric Power Pumps

Setting The Standard In Power Pump Technology



Safe - Reliable - Durable

Introducing The New G-Series Power Pump Line

At Simplex, understanding our customers' expectations is our first priority.

Our new G-Series Power Pump line has raised the bar to set new standards in the high pressure industrial marketplace. Delivering exceptional performance, enhanced power control technologies, precision tuned components for dependability, and modular assemblies sets the G-Series pumps apart from the competition.

Whether you select the G3 or G5 Series Power Pump, you can count on superior performance levels and reliability to get the job done!

Team Simplex



G-SERIES PUMP ENHANCEMENTS

New Motors

- Compact, lightweight universal motor reduces pump weight on G3 models.
- G5 Series heavy duty permanent magnet motor holds up in tough applications.
- Ideal for use with long extension cords.
- Motors provide reliable service on as little as 60 VAC.
- Operates at full pressure on a 20 amp @ 115 VAC circuit.
- Replaceable motor brushes / armature.





New Modern Shroud Design

- Integrated center-balanced handle for easy transport.
- Provides better air flow which keeps the motor running cooler.
- Non-pendant pumps include On/Off/Jog switch recessed into the shroud.
- Integrated gauge shroud protects your investment.

Advanced Circuit Technology

- Improves pump performance through precise motor control.
- Onboard diagnostics keeps you informed.
- Fewer components and wiring reduces weight & increases dependability.



Power Control Center

- Lightweight, ergonomic pendants.
- Raised rubber buttons are easy to activate, reducing hand fatigue.
- Water resistant, sealed switches operate on 12 VDC.
- High strength material for durability in harsh environments.
- Pendant standard on all models except pumps with manual valves.

Enhanced Reservoirs

- Low profile design simplifies transport.
- Sight gauge enables the operator to monitor reservoir oil levels.
- Powder coated reservoirs stand up to the harshest environments.
- "Easy-Pour" fill and drain hole makes preventative maintenance quick and easy.
- Standard mounting holes to fit with optional roll cage or casters.
- Wide variety of capacities with 1, 1.5, 2.5, 5, 10 and 20 gallon reservoirs.





G3122



G3132M

Pump Technology At A Glance

New light weight universal motor simplifies serviceability.



Electronic advancements offer reliable power control.

"User Friendly" external relief adjustment on all Simplex valves.

Durable, light weight alloy pump housing.

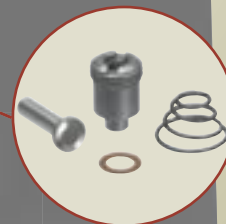
Self priming 1st stage gear pump.



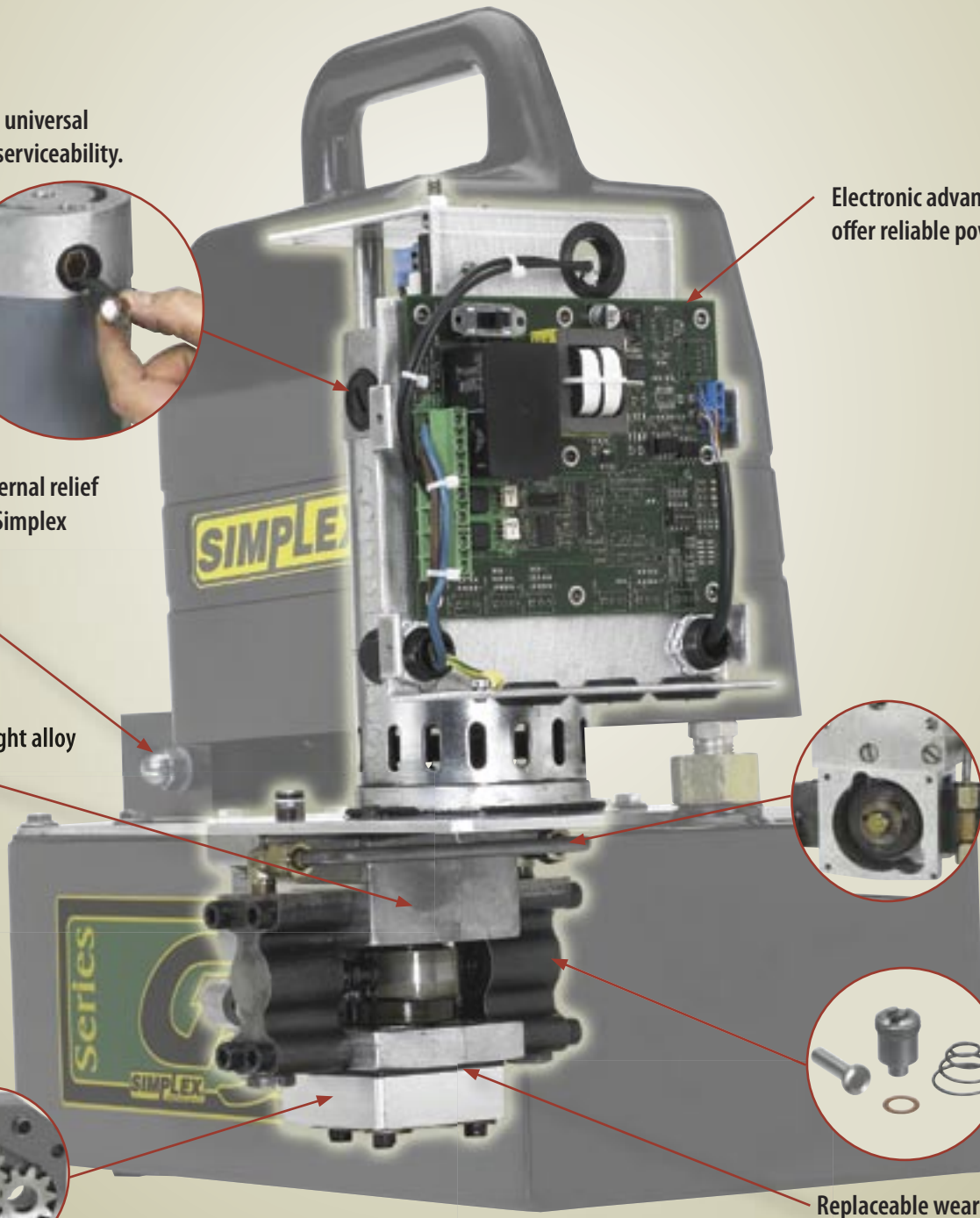
Balanced eccentric shaft and oil bath lubrication provides smooth, quiet performance.



2nd stage piston pump modular design reduces down time.



Replaceable wear plate protects housing.



SIMPLEX

G3 Pump Review **1 1/8 H.P. / 0,8 Kw**

- **Power pumps are available in 15 standard models. By adding optional accessories, a pump can be built to your requirements.**
- **Ideal for remote applications requiring a compact, lightweight power pump that is easily transportable.**
- **Designed for maximum flexibility in the field. Applications requiring alternate valving and reservoir capacity can be interchanged quickly.**
- **High performance pump provides a higher cross-over pressure (1,100 psi / 75,9 bar) than competitive pumps, providing faster cycle times for many applications.**
- **The advanced design of the G3 pump operates more efficiently providing increased flow and less heat.**
- **The motor shroud design manages air flow to reduce heat and extend motor life.**
- **Suc-O-Matic™ feature is standard on all 3 position/3way valves. The Suc-O-Matic™ valve produces a 12 psi/0,8 bar vacuum to retract any single acting spring or load return cylinder or tool.**



G3162G


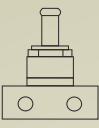



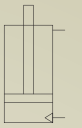
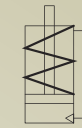
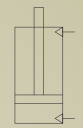


G3122

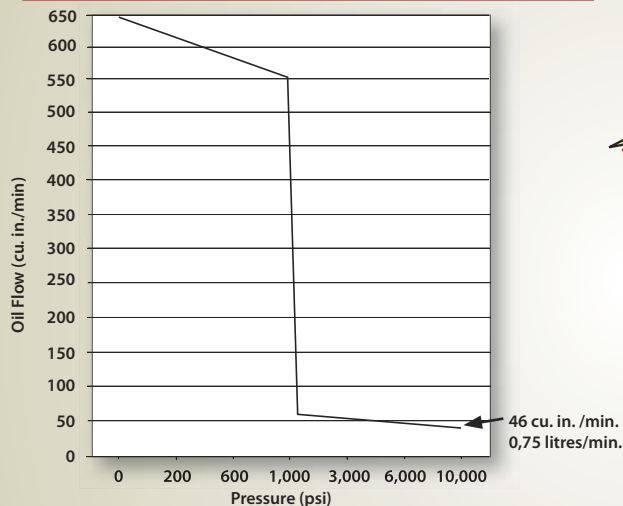


G3232M

BASIC PUMP CONFIGURATIONS

	Valve Type	Valve Function			Works With Cylinder Type		
							
Pump Application		Advance	Hold	Retract	Single-Acting Load RTN	Single-Acting Spring RTN	Double-Acting
G3 Dump pumps are ideal for crimping, pressing or cutting applications. Switching motor on builds pressure, switching motor off dumps pressure.	Dump Valve	●		●	●	●	
G3 Manual valve pumps are ideal for general applications. Directional control is accomplished by manually shifting a control valve.	2 Way	●	●	●	●	●	
	3 Way	●	●	●	●	●	
	4 Way	●	●	●			●
G3 Solenoid valve pumps are ideal for production/automation applications. Directional control is accomplished via solenoid w/pendant.	2 Way	●		●		●	
	3 Way	●	●	●	●	●	
	4 Way	●	●	●			●

G3 SERIES PERFORMANCE CHART



The G3 Series Weighs as Little as 38 lbs. / 17,3 Kg



G3 SERIES 1.125 HP / 0,8 KW ELECTRIC POWER PUMPS (10,000 PSI / 700 BAR CAPACITY)

Model Number	Reservoir Capacity		Valve			Pendant	Motor Specification	Flow Rate	Weight w/Oil		Cylinder or Tool Type	
	Gal.	Litre	Model	Style	Function				lbs	Kg		
G3100	1	3,8	Dump	Auto Retract		Advance/Retract	Motor Control	Imperial		38	17,3	Single Acting
G3101	1	3,8						45	20,4			
G3102	1.5	5,7						50	22,7			
G3121	1	3,8	VP2	2 Position 2 Way	Manual	Optional Motor Control	650 cu. in. / min. @ 0 psi	45	20,4			
G3122	1.5	5,7					554 cu. in. / min. @ 1,100 psi	52	23,6			
G3131	1	3,8	VP3	3 Position 3 Way	Solenoid	Advance/ Hold/ Retract	46 cu. in. / min. @ 10,000 psi	48	21,8			
G3132	1.5	5,7					53	24,1				
G3133	2.5	9,5					63	28,6				
G3162	1.5	5,7	VPS3	3 Position 3 Way	Solenoid	Advance/ Hold/ Retract	Metric		57	25,9	Double Acting	
G3163	2.5	9,5					67	30,4				
G3141	1	3,8					VP4	3 Position 4 Way	Manual	Optional Motor Control		10,7 litres / min. @ 0 bar
G3142	1.5	5,7	9,1 litres / min. @ 75 bar	53	24,1							
G3143	2.5	9,5	VPS4	3 Position 4 Way	Solenoid	Motor/ Solenoid Control	63	28,6				
G3172	1.5	5,7					57	25,9				
G3173	2.5	9,5					67	30,4				

*For 230 VAC pump use "2" in the 3rd character of the model number. Motor specifications 0,8 KW single phase, 10 amps @ 230 VAC.

G3 SERIES CUSTOM BUILD CHART

Class	G	Power Pump
Series	3	1.12 HP / 0,8 KW, Universal Motor
Motor Voltage	1	1 = 115 VAC Single Phase 2 = 230 VAC Single Phase
Valve Function	3	0 = Dump 4 = 4 Way Manual 8 = Port Block 1 = 2 Way Dump 5 = 2 Way Solenoid 2 = 2 Way Manual 6 = 3 Way Solenoid 3 = 3 Way Manual 7 = 4 Way Solenoid
Reservoir Size	2	0 = 1 Gallon / 3,8 litre (Plastic) 3 = 2.5 Gallon / 9,5 litre 1 = 1 Gallon / 3,8 litre (Metal) 5 = 5 Gallon / 18,9 litre 2 = 1.5 Gallon / 5,7 litre
Factory Installed Options*	<div style="display: flex; justify-content: space-around;"> <div style="width: 45%; border: 1px solid black; padding: 2px;"> C = Caster Wheel Kit*** F = Foot Switch (Motor) G = Gauge (Integrated) L = Locking Style Manifold </div> <div style="width: 45%; border: 1px solid black; padding: 2px;"> M = Motor Pendant** O = Oil Filter P = Pressure Switch R = Roll Cage*** S = Foot Switch (Valve) </div> </div>	

**If custom pump model consists of more than three options, contact factory.*

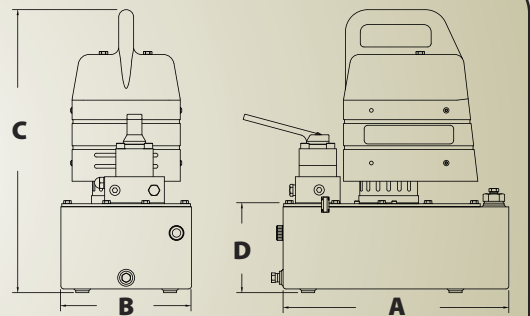
***Optional motor pendant control is available for 2, 3 & 4 way manual valve pumps only, standard w/dump pumps.*

****Cannot be used with 1 gallon plastic reservoir.*

Usable Reservoir Capacity		A		B		C		D	
(Gal.)	(litre)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1	3,8	*13.10	*332,7	*8.19	*208,0	*19	*482,6	*5.73	*145,5
		12.88	327,2	8.08	205,2	19	482,6	5.58	141,7
1.5	5,7	15.13	384,3	8.75	222,3	19	482,6	5.96	151,3
2.5	9,5	17	431,8	9.75	247,7	19	482,6	5.96	151,4
5	18,9	25.10	637,5	11.75	298,5	19	482,6	8.21	208,5

* Pump with metal fabricated reservoir.

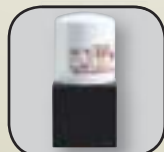
Roll Cage Dimension L - 25.13" x W - 15.13" x H - 22.13" / L - 638,3mm x W - 384,3mm x H - 562,1mm



G3 SERIES OPTIONAL ACCESSORIES



R = Roll Cage



O = Oil Filter



L = Lock Manifolds



M = Motor Pendant



F = Foot Switch



C = Caster Kit



G = Gauge (Integrated)



Pump Technology At A Glance

Tough permanent magnet motors are easily maintained.



Electronic advancements offer reliable power control.

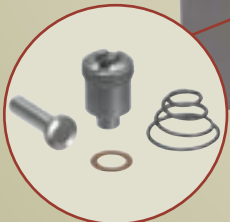
Balanced eccentric shaft and oil bath lubrication provides smooth, quiet performance.



"User Friendly" external relief adjustment on all Simplex valves.

Durable, lightweight alloy pump housing.

2nd stage piston pump modular design reduces down time.



Replaceable wear plate protects housing.

"Heat Exchanger Ready" unloading port improves cooling efficiencies.

Self-priming 1st stage gear pump.



SIMPLEX[®]

G5 Pump Review **1.5 H.P. / 1,1 Kw**

- ✓ **Power pumps are available in 16 standard models. By adding optional accessories, a pump can be built to your requirements.**
- ✓ **Standard as a 2 stage pump, but is available with an optional 3 stage pump. Both pumps have a higher crossover than competitive pumps, which allows for higher pump performance.**
- ✓ **Designed for continuous duty in the harshest environments. Our permanent magnet motor will start under full load on as little as 60 volts.**
- ✓ **Designed for maximum flexibility in the field. Applications requiring alternate valving and reservoir capacity can be interchanged quickly.**
- ✓ **The advanced pump technology maximizes output flow resulting in reduced cycle time.**
- ✓ **The motor shroud design manages air flow to reduce heat and extend motor life.**
- ✓ **Suc-O-Matic™ feature is standard on all 3 position/3way valves. The Suc-O-Matic™ valve produces a 12 psi/0,8 bar vacuum to retract any single acting spring or load return cylinder or tool.**


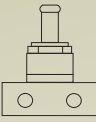




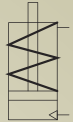
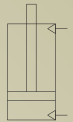


G5162G

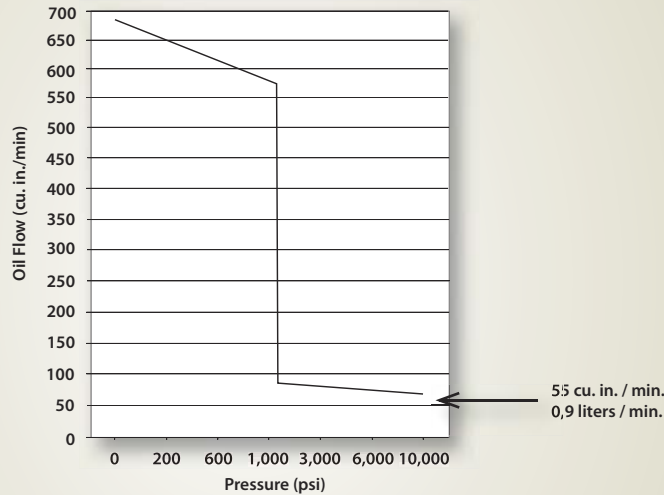


G5122

BASIC PUMP CONFIGURATIONS

	Valve Type	Valve Function			Works With Cylinder Type		
							
Pump Application		Advance	Hold	Retract	Single-Acting Load RTN	Single-Acting Spring RTN	Double-Acting
G5 Dump pumps are ideal for crimping, pressing or cutting applications. Switching motor on builds pressure, switching motor off dumps pressure.	Dump Valve	●		●	●	●	
G5 Manual valve pumps are ideal for general applications. Directional control is accomplished by manually shifting a control valve.	2 Way	●	●	●	●	●	
	3 Way	●	●	●	●	●	
	4 Way	●	●	●			●
G5 Solenoid valve pumps are ideal for production/automation applications. Directional control is accomplished via solenoid w/pendant.	2 Way	●		●		●	
	3 Way	●	●	●	●	●	
	4 Way	●	●	●			●

G5 SERIES PERFORMANCE CHART



G5 SERIES 1.5 HP / 1,1 KW ELECTRIC POWER PUMPS (10,000 PSI / 700 BAR CAPACITY)

Model Number	Reservoir Capacity		Valve			Pendant	Motor Specification	Flow Rate	Weight		Cylinder or Tool Type			
	Gal.	Litre	Model	Style	Function				lbs.	Kg				
G5102	1.5	5,7	Dump	Auto Retract		Advance/Retract	Motor Control	1.5 HP Single Phase 115 VAC Max. 18 amps @ 115VAC	Imperial		Single Acting			
G5103	2.5	9,5		700 cu. in. / min. @ 0 psi					64	29,1				
G5122	1.5	5,7	VP2	2 Position 2 Way	Advance/ Hold/ Retract	Optional Motor Control	575 cu. in. / min. @ 1,100 psi		74	33,6				
G5123	2.5	9,5		700 cu. in. / min. @ 0 psi			64		29,1					
G5132	1.5	5,7	VP3	3 Position 3 Way			Manual		Optional Motor Control	55 cu. in. / min. @ 10,000 psi		74	33,6	
G5133	2.5	9,5								700 cu. in. / min. @ 0 psi		67	30,4	
G5135	5	18,9								700 cu. in. / min. @ 0 psi		77	35	
G5162	1.5	5,7	VPS3	3 Position 3 Way			Solenoid		Motor/ Solenoid Control	700 cu. in. / min. @ 0 psi		115	52,3	
G5163	2.5	9,5				700 cu. in. / min. @ 0 psi				71		32,3		
G5165	5	18,9				700 cu. in. / min. @ 0 psi				81		36,8		
G5142	1.5	5,7	VP4	3 Position 4 Way		Manual	Optional Motor Control		Metric			119	54,1	Double Acting
G5143	2.5	9,5							11,5 litres / min. @ 0 bar			67	30,4	
G5145	5	18,9						9,4 litres / min. @ 75,9 bar		77	35			
G5172	1.5	5,7	VPS4	3 Position 4 Way		Solenoid	Motor/ Solenoid Control	0,9 litres / min. @ 700 bar		115	52,3			
G5173	2.5	9,5			0,9 litres / min. @ 700 bar			71	32,3					
G5175	5	18,9			0,9 litres / min. @ 700 bar			81	36,8					

For 230 VAC pump use "2" in the 3rd character of the model number. Motor specifications 1,1 KW single phase, 10 amps @ 230 VAC.

G5 SERIES CUSTOM BUILD CHART

Class	G	Power Pump												
Series	5	1.5 HP / 1,1 KW, Permanent Magnet Motor												
Motor Voltage	1	1 = 115 VAC Single Phase 2 = 230 VAC Single Phase												
Valve Function	3	<table border="0" style="width: 100%; font-size: small;"> <tr> <td>0 = Dump</td> <td>4 = 4 Way Manual</td> <td>8 = Port Block</td> </tr> <tr> <td>1 = 2 Way Dump</td> <td>5 = 2 Way Solenoid</td> <td></td> </tr> <tr> <td>2 = 2 Way Manual</td> <td>6 = 3 Way Solenoid</td> <td></td> </tr> <tr> <td>3 = 3 Way Manual</td> <td>7 = 4 Way Solenoid</td> <td></td> </tr> </table>	0 = Dump	4 = 4 Way Manual	8 = Port Block	1 = 2 Way Dump	5 = 2 Way Solenoid		2 = 2 Way Manual	6 = 3 Way Solenoid		3 = 3 Way Manual	7 = 4 Way Solenoid	
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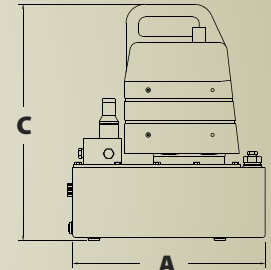
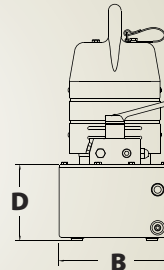
**If custom pump model consists of more than three options, contact factory.*

***Optional motor pendant control is available for 2, 3 & 4 way manual valve pumps only, standard w/dump pumps.*

Optional 3 stage pump available upon request, contact factory for details.

Usable Reservoir Capacity		A		B		C		D	
(Gal.)	(litre)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1.5	5,7	15.13	384,3	8.75	222,3	19	482,6	5.96	151,4
2.5	9,5	17	1,8	9.75	247,7	19	482,6	5.96	151,4
5	18,9	25.10	637,5	11.75	298,5	19	482,6	8.21	208,5
10	37,9	25.10	637,5	11.75	298,5	23	584,2	12.46	315,5

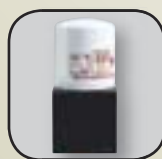
Roll Cage Dimension L - 25.13" x W - 15.13" x H - 22.13" / L - 638,3mm x W - 384,3mm x H - 562,1mm



G5 SERIES OPTIONAL ACCESSORIES



R = Roll Cage



O = Oil Filter



C = Caster Kit



G = Gauge (Integrated)



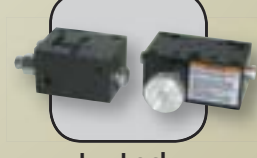
M = Motor Pendant



F = Foot Switch



H = Heat Exchanger



L = Lock Manifolds

SIMPLEX OFFICES

UNITED STATES HOME
OFFICE AND FACTORY
2525 Gardner Road
Broadview, IL 60155-3719
Phone: (708) 865-1500
Fax: (708) 865-0894
Toll Free: (800) 323-9114
Email: sales@tksimplex.com
www.tksimplex.com

CANADIAN WAREHOUSE
637 McCaffrey
St. Laurent, PQ H4T1N3
Phone: (514) 731-4893
Fax: (514) 731-7457
Toll Free: (800) 840-1196
Email: canada@tksimplex.com

EUROPEAN WAREHOUSE
Lindelauffer Gewande 24A
6367 Az Voerendaal,
Netherlands
Phone: +31-45-5234545
Fax: +31-45-5234556
Email: info@tksimplex.nl
www.tksimplex.nl

ASIA & PACIFIC RIM
Phone: +612-9736-1619
Fax: +612-9736-2170
Email: asiapacific@tksimplex.com

MEXICO
Phone: +52-55-2163 0630
Fax: +52-55-2163 0636
mexico@tksimplex.com

SOUTH & CENTRAL AMERICA
latinamerica@tksimplex.com

MIDDLE EAST
Phone: +32-10-223322
Fax: +32-10-229444
mideast@tksimplex.com

SOUTH AFRICA
Phone: +27-11-908-1721
Fax: +27-11-908-5806
southernafrica@tksimplex.com

*When more power and versatility is needed, the
Simplex G-Series power pumps are the ideal solution.*



G3132M

SC103C

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