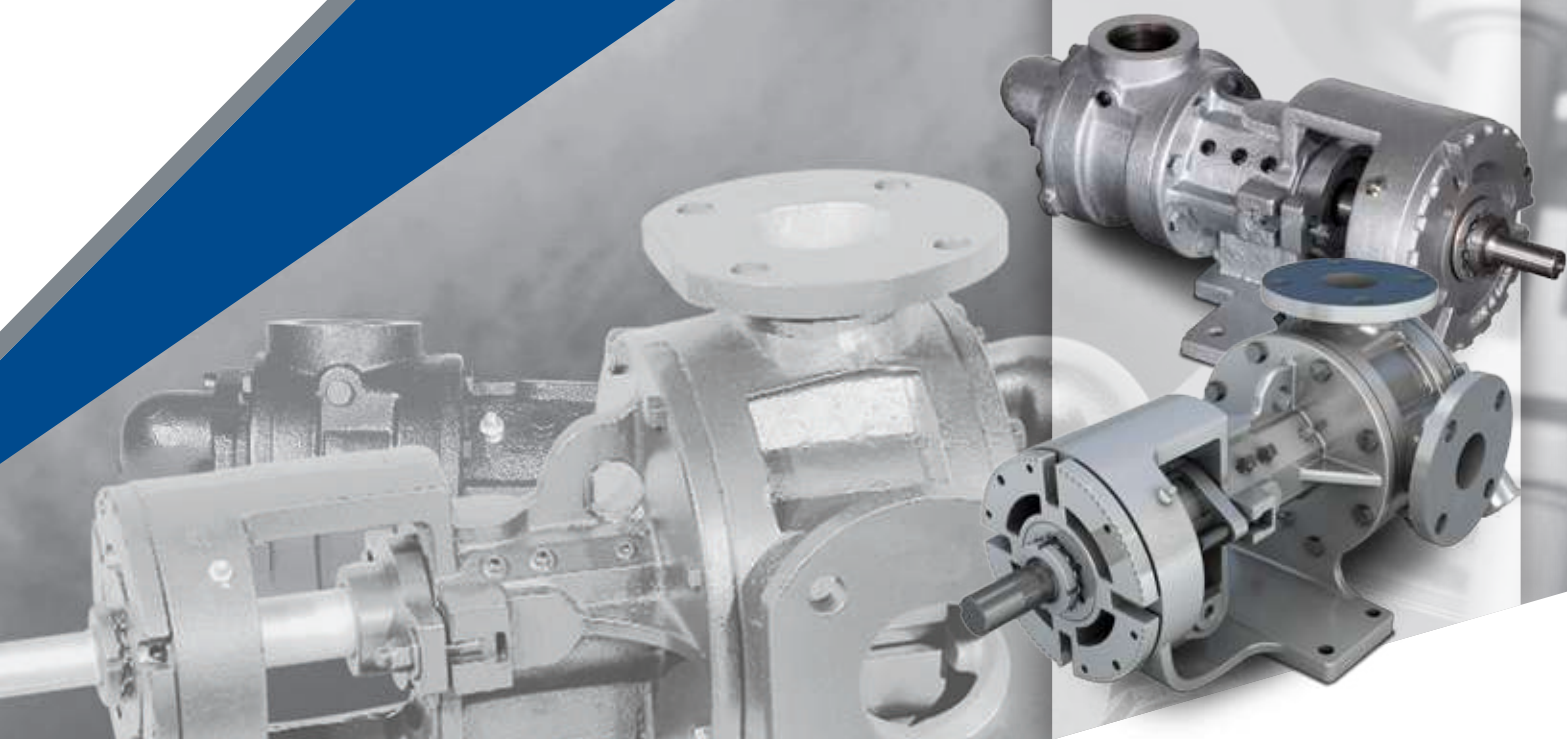




**G Series**  
Sealed Internal  
Gear Pumps



Where Innovation Flows

[envirogearpump.com](http://envirogearpump.com)



# G Series Internal Gear PUMPS

## A Universal **Workhorse** with Unprecedented **Speed!**

EnviroGear® Pumps, part of PSG®, a Dover Company, is a leading global provider of innovative, high-quality industrial gear pumps for the safe and efficient transfer of liquids. G Series Sealed Internal Gear Pumps from EnviroGear are durable, flexible and efficient positive displacement gear pumps that excel in challenging applications. Reliable and capable of overcoming your most difficult fluid-transfer needs, G Series pumps are ideally suited for applications requiring a pump that can move liquids ranging from thin to highly viscous.

Our world-class distributor network ensures you will have access to the pump you need when you need it. We are devoted to your business' success by servicing your needs with world-class products, delivery and best-in-class expertise. The G Series pumps combine all of this while offering some of the shortest gear pump lead times in the industry. Put us to the test today and contact your local distributor at [envirogearpump.com](http://envirogearpump.com).

*Quality • Speed of Delivery • Interchangeability*

## G Series Pumps are **Ideally Suited** For...

- Chemical processing
- Petrochemicals
- Soaps and detergents
- Paints, coatings and adhesives
- Inks and pigments
- Rubbers and plastics
- Resins
- Polyurethane foam
- Food and beverage
- Oilseed
- Pharmaceuticals
- Personal care products
- Textile manufacturing
- Fire retardants
- Petroleum refining
- Petroleum distribution
- Oil and gas
- Lubricating grease and oil
- Construction
- Roofing materials
- Hot oils
- Hydraulic oils
- Heat-transfer fluids
- Glycol
- Automotive
- Pulp and paper
- Mining
- Particulates

## G Series Applications

G Series pumps are excellent for transferring high-viscosity fluids with only two moving parts. This pump operates equally well in both directions and provides a positive, non-pulsating flow. Easy to maintain and user-friendly with a single adjustment end-clearance, the G Series features an enlarged bearing housing at the rear end of the pump that provides easy drive-end access to the shaft seal and single-point end-clearance adjustment. The pump casing also revolves to allow for multiple inlet and outlet positioning. The G Series pump has a flexible design and can be customized for your specific needs.



## G Series Baseplate Systems

G Series pump baseplate systems minimize deflection and vibration to maximize the life of the pump, motor and gear reducer. In addition, their innovative design allows easy and accurate shaft alignment.

## **Interchangeability** Allows Simple and Easy Upgrading with **Minimal** Installation **Costs.**

G Series pumps are interchangeable with up to 95% of the internal gear pumps currently available in the market. No changes needed to piping, driver, coupling, flow rates or baseplates.

As an added benefit, G Series pumps and spare parts are designed to be direct replacements for Viking® H, HL, K, KK, L, LQ, LL, LS, Q and QS. Available in Cast Iron, Carbon Steel and Stainless Steel construction.



## Sizes Available

Model	Cast Iron Port Size <sup>1</sup>	Carbon Steel Port Size <sup>2</sup>	Stainless Steel Port Size <sup>2</sup>
G1-2	1-1/2" NPT	1-1/2" ANSI	1-1/2" ANSI
G1-4	1-1/2" NPT	1-1/2" ANSI	1-1/2" ANSI
G1-24	2" NPT	2" ANSI	2" ANSI
G1-32	2" NPT	2" ANSI	2" ANSI
G1-55	2" NPT or 2-1/2" ANSI	2-1/2" ANSI	2-1/2" ANSI
G1-69	3" ANSI	3" ANSI	3" ANSI
G1-82	3" ANSI	3" ANSI	3" ANSI
G1-133	4" ANSI	4" ANSI	4" ANSI
G1-222	6" ANSI	6" ANSI	6" ANSI

(1) Flanged connections meet Class 125# ANSI (2) Flanged connections meet Class 150# ANSI

## G Series Performance & Technical Information: Pump Selection Performance Criteria

Model	Cast Iron*			Carbon Steel**			Stainless Steel***		
	rpm	gpm	psig (20 cSt and above)	rpm	gpm	psig (20 cSt and above)	rpm	gpm	psig (20 cSt and above)
G1-2	1,750	15	200	1,750	15	200	1,150	10	150
G1-4	1,750	30	200	1,750	30	200	1,150	20	150
G1-24	780	75	200	780	75	200	520	50	150
G1-32	780	100	200	780	100	200	520	65	150
G1-55	640	135	200	640	135	200	420	90	150
G1-69	520	140	200	520	140	200	420	110	150
G1-82	640	200	200	640	200	200	520	160	125
G1-133	520	300	200	520	300	200	350	200	125
G1-222	520	500	200	520	500	200	350	320	125

\* Max temperature: G1-2 through G1-69 models to 343°C (650°F), G1-82 through G1-222 to 260°C (500°F)

\*\* Max temperature: G1-2 through G1-69 models to 343°C (650°F), G1-82 through G1-222 to 260°C (500°F)

\*\*\* Max temperature: All models to 260°C (500°F)

**Temperature:** Pumps operating at temperatures greater than 107°C (225°F) require increased pump clearances. If you require temperatures greater than 107°C (225°F) please contact factory.

**Viscosity:** G Series pumps are capable of pumping viscosities up to 431,500 cSt.

## Model Cross Reference

G Series	E Series	Viking®	Tuthill®	Gorman-Rupp®
G1-2	E1-2	H	015	GHS 1-1/2
G1-4	E1-4	HL	030	GHS 1-1/2
G1-24	E1-24	K	120	GHS 2
G1-32	E1-32	KK	130	GHS 2
G1-55	E1-55	L & LQ	200	GHS 2-1/2, 3
G1-69	E1-69	LL	210	GHS 3
G1-82	E1-82	LS	250	GHS 3
G1-133	N/A	Q	N/A	GHS 4
G1-222	N/A	QS	550	GHS 6

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## Materials of Construction

	Cast Iron	Carbon Steel	Stainless Steel
Case	Cast Iron, ASTM A48 Class 35B	Carbon Steel, ASTM A216 Grade WCB	Stainless Steel, ASTM A743 Grade CF8M
Head	Cast Iron, ASTM A48 Class 35B	Carbon Steel, ASTM A216 Grade WCB	Stainless Steel, ASTM A743 Grade CF8M
Bracket	Cast Iron, ASTM A48 Class 35B	Carbon Steel, ASTM A216 Grade WCB	Stainless Steel, ASTM A743 Grade CF8M
Idler Gear	Cast Iron, ASTM A48 Class 35B <sup>1</sup>	Cast Iron, ASTM A48 Class 35B <sup>1</sup>	Stainless Steel, ASTM A564 Type 630 (17-4PH) <sup>5</sup>
Rotor Standard	Cast Iron, ASTM A48 Class 35B <sup>2,4</sup>	Cast Iron, ASTM A48 Class 35B <sup>2,4</sup>	Stainless Steel, ASTM A564 Type 630 (17-4PH) <sup>5</sup>
Rotor Steel Fitted	Carbon Steel, ASTM A311 Grade 1045 Class A <sup>3,4</sup>	Carbon Steel, ASTM A311 Grade 1045 Class A <sup>3,4</sup>	N/A
Rotor Shaft	Steel, ASTM A311 Grade 1045	Steel, ASTM A311 Grade 1045	Stainless Steel, ASTM A276 Grade 316
Idler Pin	Alloy Steel, Hardened	Alloy Steel, Hardened	Stainless Steel, Hardened
Idler Bushing	Carbon Graphite	Carbon Graphite	Carbon Graphite
Idler Bushing	Bronze	Bronze	
Bracket Bushing	Carbon Graphite	Carbon Graphite	Carbon Graphite
Bracket Bushing	Bronze	Bronze	
Pressure Relieve Valve	Cast Iron, ASTM A48 Class 35B	Carbon Steel, ASTM A216 Grade WCB	Stainless Steel, ASTM A743 Grade CF8M

<sup>1</sup> Cast iron and carbon steel G1-133 and G1-222 come standard with ductile iron idler ASTM A536 Grade 80-55-06

<sup>2</sup> Cast iron and carbon steel G1-32 come standard with ductile iron rotor ASTM A536 Grade 60-40-18

<sup>3</sup> Cast iron and carbon steel G1-4 steel fitted come with alloy steel grade 8620 rotor

<sup>4</sup> Cast iron and carbon steel G1-82, G1-133 and G1-222 standard and steel fitted come with ductile iron rotor ASTM A536 Grade 80-55-06

<sup>5</sup> Stainless steel G1-82, G1-133 and G1-222 come standard with Nitronic 60, ASTM A276, UNS21800 rotor and idler

## Where Innovation Flows



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