



Sizes Available

Model	Cast Iron Port Sizes ¹	Carbon Steel Port Sizes ²	Stainless Steel Port Sizes ³
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

Pump Selection Performance Criteria

Model	Nominal Pump Rating		Max. Discharge Pressure		Max. Temperature		Nominal Pump Rating	Max. Discharge Pressure		Max. Temperature		
	RPM	GPM (m ³ /h)	PSIG (bar)	Fahrenheit (Celsius)	RPM	GPM (m ³ /h)		PSIG (bar)	Fahrenheit (Celsius)	RPM	GPM (m ³ /h)	PSIG (bar)
Cast Iron												
Carbon Steel												
Stainless Steel												
G1-2	1,750	15 (3.4)	200 (13.8) >20 cSt	650° (343°)	1,750	15 (3.4)	200 (13.8) >20 cSt	650° (343°)	1,150	10 (2.3)	150 (10.3) >550 cSt	500° (260°)
G1-4	1,750	30 (6.8)	200 (13.8) >20 cSt	650° (343°)	1,750	30 (6.8)	200 (13.8) >20 cSt	650° (343°)	1,150	20 (4.5)	150 (10.3) >550 cSt	500° (260°)
G1-24	780	75 (17.0)	200 (13.8) >20 cSt	650° (343°)	780	75 (17.0)	200 (13.8) >20 cSt	650° (343°)	520	50 (11.4)	150 (10.3) >550 cSt	500° (260°)
G1-32	780	100 (22.7)	200 (13.8) >20 cSt	650° (343°)	780	100 (22.7)	200 (13.8) >20 cSt	650° (343°)	520	65 (14.8)	150 (10.3) >550 cSt	500° (260°)
G1-55	640	135 (30.7)	200 (13.8) >20 cSt	650° (343°)	640	135 (30.7)	200 (13.8) >20 cSt	650° (343°)	420	90 (20.4)	150 (10.3) >550 cSt	500° (260°)
G1-69	520	140 (31.8)	200 (13.8) >20 cSt	650° (343°)	520	140 (31.8)	200 (13.8) >20 cSt	650° (343°)	420	110 (25.0)	150 (10.3) >550 cSt	500° (260°)
G1-82	640	200 (45.4)	200 (13.8) >165 cSt	500° (260°)	640	200 (45.4)	200 (13.8) >165 cSt	500° (260°)	520	160 (36.3)	125 (8.6) >550 cSt	500° (260°)
G1-133	520	300 (68.1)	200 (13.8) >165 cSt	500° (260°)	520	300 (68.1)	200 (13.8) >165 cSt	500° (260°)	350	200 (45.4)	125 (8.6) >25 cSt	500° (260°)
G1-222	520	500 (113.6)	200 (13.8) >165 cSt	500° (260°)	520	500 (113.6)	200 (13.8) >165 cSt	500° (260°)	350	320 (72.7)	125 (8.6) >25 cSt	500° (260°)

(1) Maximum pressure listed reflects maximum differential pressure and maximum allowable working pressure.

(2) Values listed in table are nominal and for reference only. To ensure proper pump selection, always refer to EnviroGear Select.

Materials of Construction

Description	Part	Cast Iron	Carbon Steel	Stainless Steel	
Pressure Containing	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	
	Pressure Relief Valve	Cast Iron, ASTM A48 Class 35B	Carbon Steel, ASTM A216 Grade WCB	Stainless Steel, ASTM A743 Grade CF8M	
Product Contact	Idler Gear	Cast Iron, ASTM A48 Class 35B ¹		Stainless Steel, ASTM A564 Type 630 (17-4PH) ⁵	
	Rotor	Standard	Cast Iron, ASTM A48 Class 35B ^{2,4}		Stainless Steel, ASTM A564 Type 630 (17-4PH) ⁵
		Steel Fitted	Carbon Steel, ASTM A311 Grade 1045 Class A ^{3,4}		N/A
	Rotor Shaft	Steel, ASTM A311 Grade 1045			Stainless Steel, ASTM A276 Grade 316
	Idler Pin	Alloy Steel, Hardened			Stainless Steel, Hardened
	Idler Bushing	Carbon Graphite, Bronze, Tungsten Carbide			Carbon Graphite, Tungsten Carbide
Bracket Bushing	Carbon Graphite, Bronze, Tungsten Carbide			Carbon Graphite, Tungsten Carbide	
Non-Product Contact	Bearing Housing	Cast Iron, ASTM A48 Class 35B			

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

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

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

⁴ 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

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

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	E1-133	Q	N/A	GHS 4
G1-222	E1-222	QS	550	GHS 6

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