

BLACKMER G SERIES INTERNAL GEAR PUMP PERFORMANCE CURVE



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Iron and Steel Construction

- 1 Centistokes
- 5 Centistokes
- 10 Centistokes
- 100 Centistokes
- 1,000 Centistokes
- 10,000 Centistokes
- 50,000 Centistokes

Stainless Steel Construction

- 1 Centistokes
- 5 Centistokes
- 10 Centistokes
- 100 Centistokes
- 1,000 Centistokes
- 10,000 Centistokes
- 50,000 Centistokes

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Iron and Steel Construction

- 1 Centistokes
- 5 Centistokes
- 10 Centistokes
- 100 Centistokes
- 1,000 Centistokes
- 10,000 Centistokes
- 50,000 Centistokes

Stainless Steel Construction

- 1 Centistokes
- 5 Centistokes
- 10 Centistokes
- 100 Centistokes
- 1,000 Centistokes
- 10,000 Centistokes

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Iron and Steel Construction

- 1 Centistokes
- 5 Centistokes
- 10 Centistokes
- 100 Centistokes
- 1,000 Centistokes
- 10,000 Centistokes
- 50,000 Centistokes

Stainless Steel Construction

- 1 Centistokes
- 5 Centistokes
- 10 Centistokes
- 100 Centistokes
- 1000 Centistokes
- 10,000 Centistokes
- 50,000 Centistokes

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Iron and Steel Construction

- 1 Centistokes
- 5 Centistokes
- 10 Centistokes
- 100 Centistokes
- 1,000 Centistokes
- 10,000 Centistokes
- 16,500 Centistokes

Stainless Steel Construction

- 1 Centistokes
- 5 Centistokes
- 10 Centistokes
- 100 Centistokes
- 1,000 Centistokes
- 10,000 Centistokes
- 50,000 Centistokes

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Iron and Steel Construction

- 1 Centistokes
- 5 Centistokes
- 10 Centistokes
- 100 Centistokes
- 1,000 Centistokes
- 10,000 Centistokes
- 16,500 Centistokes

Stainless Steel Construction

- 1 Centistokes
- 5 Centistokes
- 10 Centistokes
- 100 Centistokes
- 1,000 Centistokes
- 10,000 Centistokes
- 50,000 Centistokes

Section 9: G1-222/G2-222 (Iron Only).....115

Iron and Steel Construction

- 1 Centistokes
- 5 Centistokes
- 10 Centistokes
- 100 Centistokes
- 1,000 Centistokes
- 10,000 Centistokes
- 16,500 Centistokes

Stainless Steel Construction

- 1 Centistokes
- 5 Centistokes
- 10 Centistokes
- 100 Centistokes
- 1,000 Centistokes
- 10,000 Centistokes
- 50,000 Centistokes

How to Use this Guide?

Thank you for considering Blackmer Gear! This guide is intended to help you begin selecting a pump based on desired flow rate and/or drive power needs. Start by determining which pump size will best suit your application by using the specifications and performance data below. We've also included a competitor cross reference table in case you're coming to us from one of several other popular brands. From there, use the table of contents to navigate to the appropriate section based on fluid viscosities. The section headers in the Table of Contents are clickable, as are the lists of viscosities to take you directly to the section you're most interested in. We've also included links back to the Table of Contents at the bottom right corner of each curve page.

If you're new to the Blackmer family of products, welcome! If you're a long time user, welcome back!"

Specification								
	Standard Non-Jacketed (G1)		Jacketed (G2)		Standard Non-Jacketed (G1)		Standard Non-Jacketed (G1)	
Model	Cast Iron Port Sizes ²		Cast Iron Port Sizes ²		Carbon Steel Port Sizes ¹		Stainless Steel Port Sizes ¹	
	Threaded	Flanged	Threaded	Flanged	Threaded	Flanged	Threaded	Flanged
G1-2 G1-4	1-1/2" NPT	N/A	N/A	N/A	N/A	1-1/2" ANSI	N/A	1-1/2" ANSI
G1-24 G1-32	2" NPT	N/A	N/A	N/A	N/A	2" ANSI	N/A	2" ANSI
G1-55 / G2-55	2" NPT	2-1/2" ANSI	2" NPT	2-1/2" ANSI	N/A	2-1/2" ANSI	N/A	2-1/2" ANSI
G1-69 / G2-69 G1-82 / G2-82	N/A	3" ANSI	N/A	3" ANSI	N/A	3" ANSI	N/A	3" ANSI
G1-133 / G2-133	N/A	4" ANSI	N/A	4" ANSI	N/A	4" ANSI	N/A	4" ANSI
G1-222 / G2-222	N/A	6" ANSI 180°	N/A	6" ANSI 180°	N/A	6" ANSI 180°	N/A	6" ANSI 180°

(1) Flanged connections meet Class 150# ANSI
(2) Flanged connections meet Class 125# ANSI
(3) Jacketed bracket, head, and valve available in 55-133 sizes; 90 deg ANSI case optional for 55 and 133 sizes only
Note: All port orientations 90° unless specifically noted 180°
Note: All G Series ANSI flanges are flat-face (FF)

Performance								
	Standard Non-Jacketed (G1)		Jacketed (G2)		Standard Non-Jacketed (G1)		Standard Non-Jacketed (G1)	
Model	Cast Iron		Cast Iron		Carbon Steel		Stainless Steel	
	RPM	GPM (M ³ /H)	RPM	GPM (M ³ /H)	RPM	GPM (M ³ /H)	RPM	GPM (M ³ /H)
G1-2	1,750	15 (3.4)	N/A	N/A	1,750	15 (3.4)	1,150	10 (2.3)
G1-4	1,750	30 (6.8)	N/A	N/A	1,750	30 (6.8)	1,150	20 (4.5)
G1-24	780	75 (17.0)	N/A	N/A	780	75 (17.0)	520	50 (11.4)
G1-32	780	100 (22.7)	N/A	N/A	780	100 (22.7)	520	65 (14.8)
G1-55 / G2-55	640	135 (30.7)	640	135 (30.7)	640	135 (30.7)	420	90 (20.4)
G1-69 / G2-69	520	140 (31.8)	520	140 (31.8)	520	140 (31.8)	420	110 (25.0)
G1-82 / G2-82	640	200 (45.4)	640	200 (45.4)	640	200 (45.4)	520	160 (36.3)
G1-133 / G2-133	520	300 (68.1)	520	300 (68.1)	520	300 (68.1)	350	200 (45.4)
G1-222 / G2-222	520	500 (113.6)	520	500 (113.6)	520	500 (113.6)	350	320 (72.7)

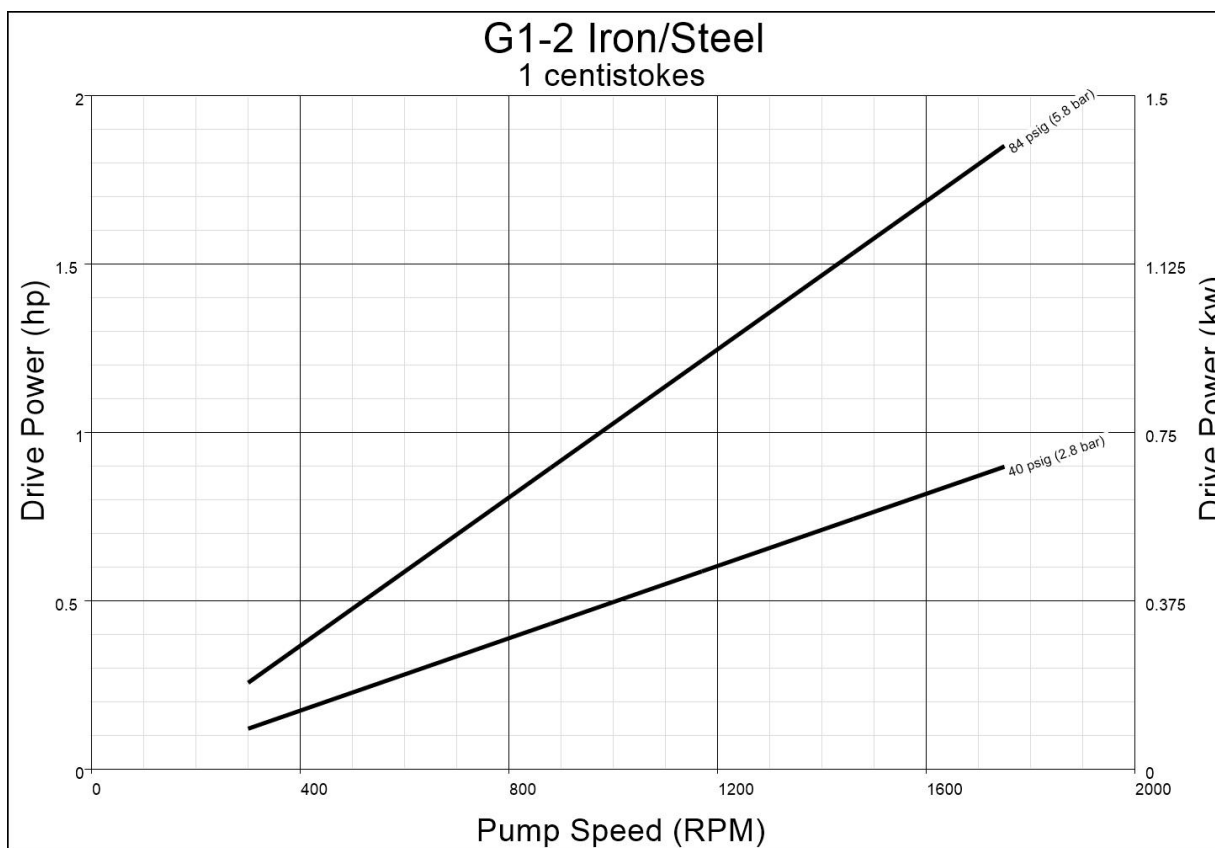
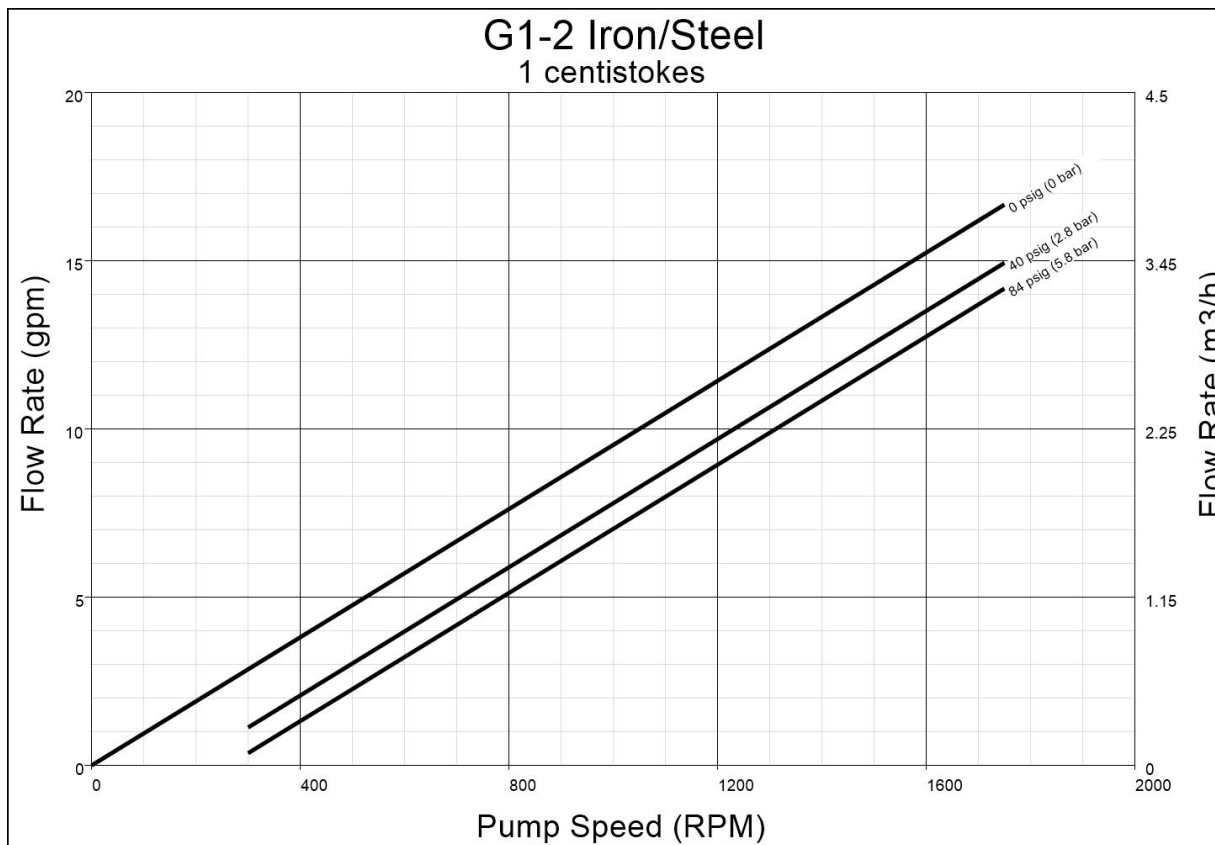
(1) Jacketed bracket, head, and valve available in 55-133 sizes; 90 deg ANSI case optional for 55 and 133 sizes only

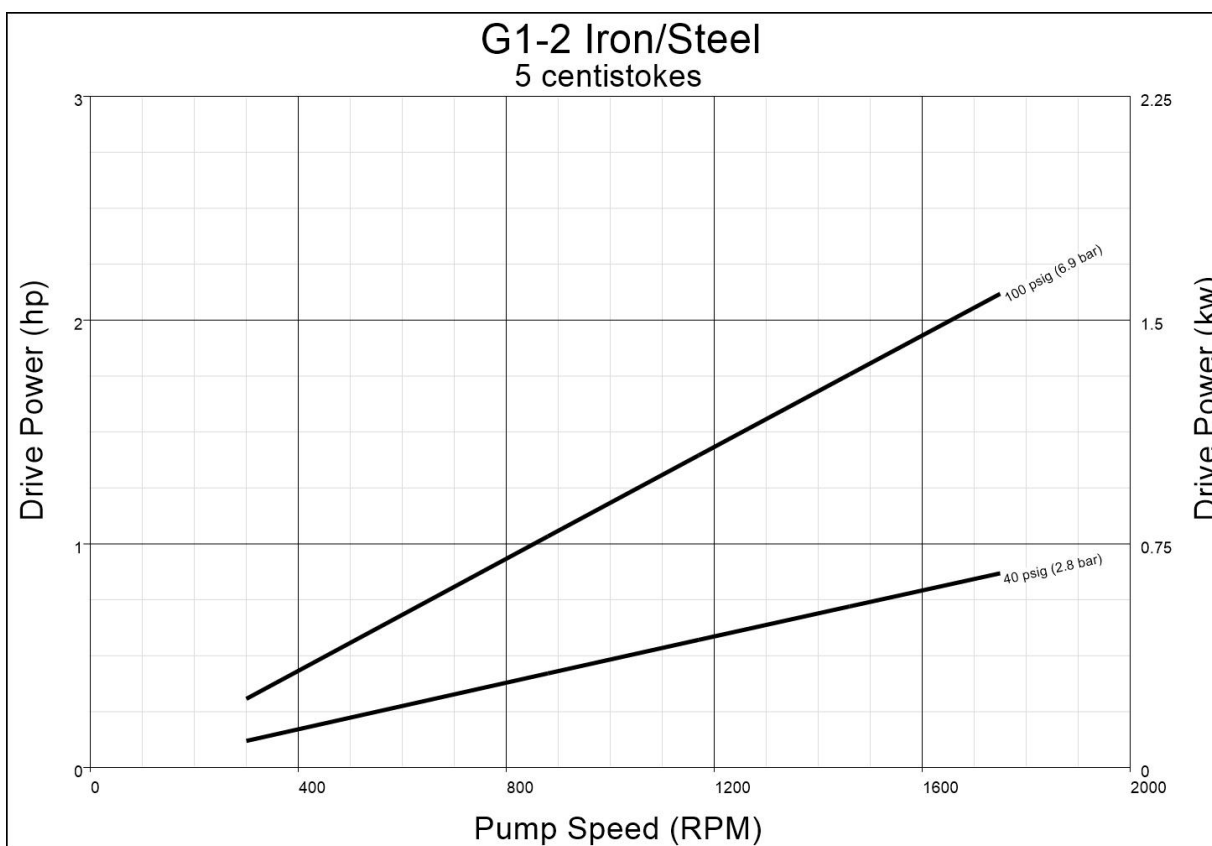
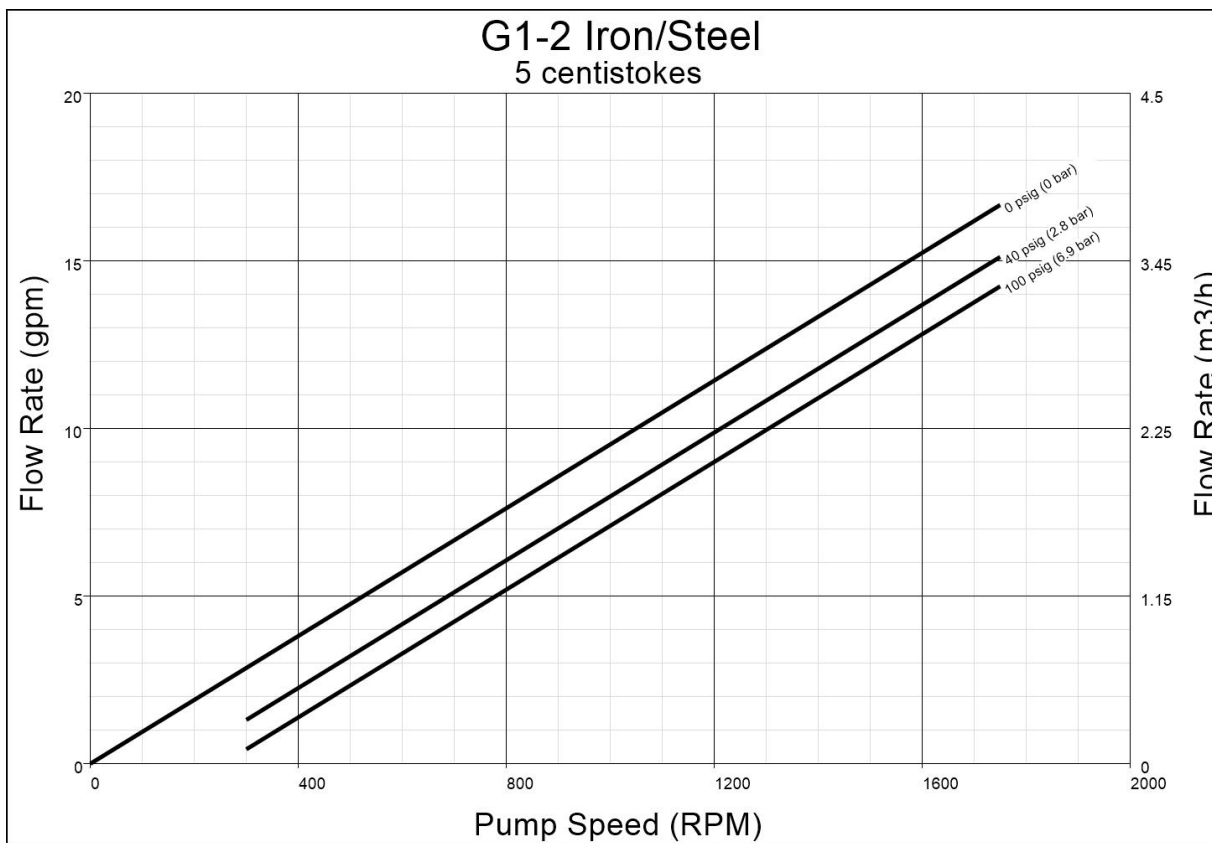
Competitor Model Cross Reference

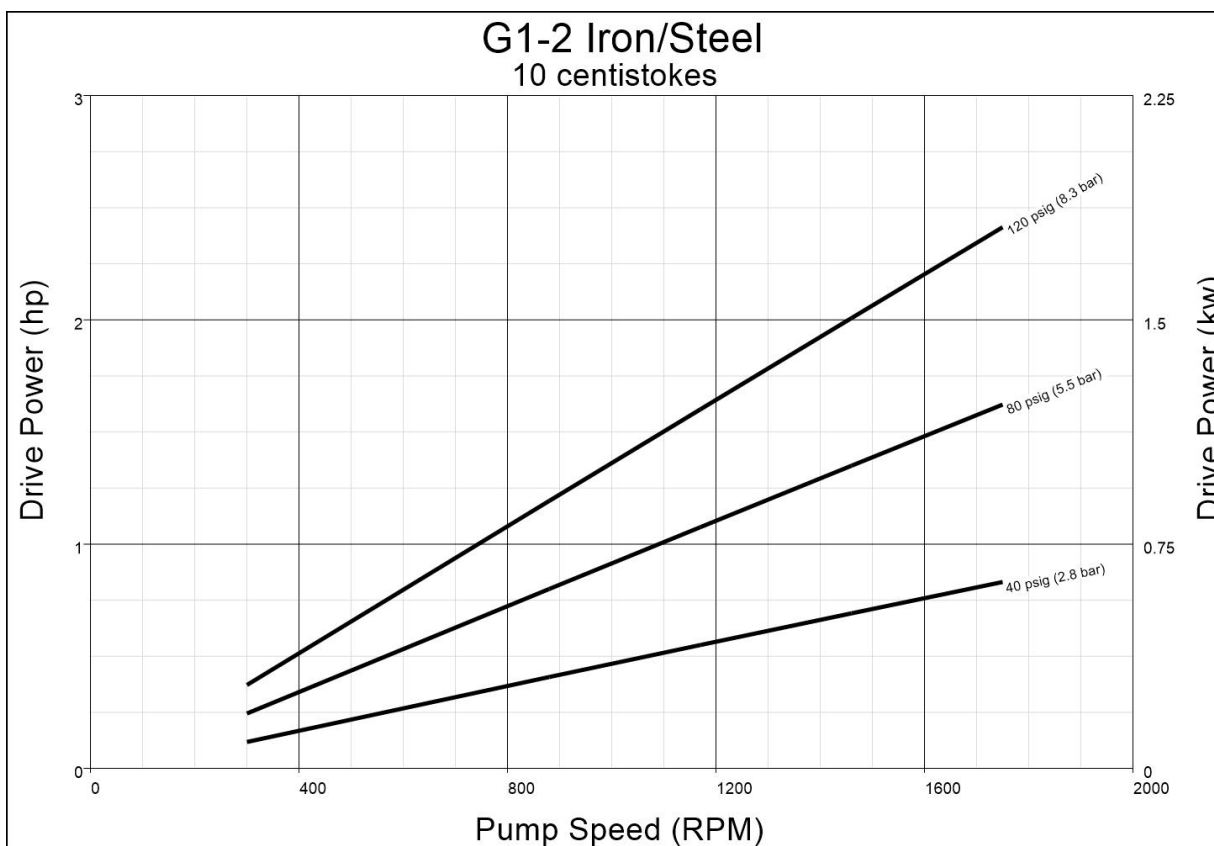
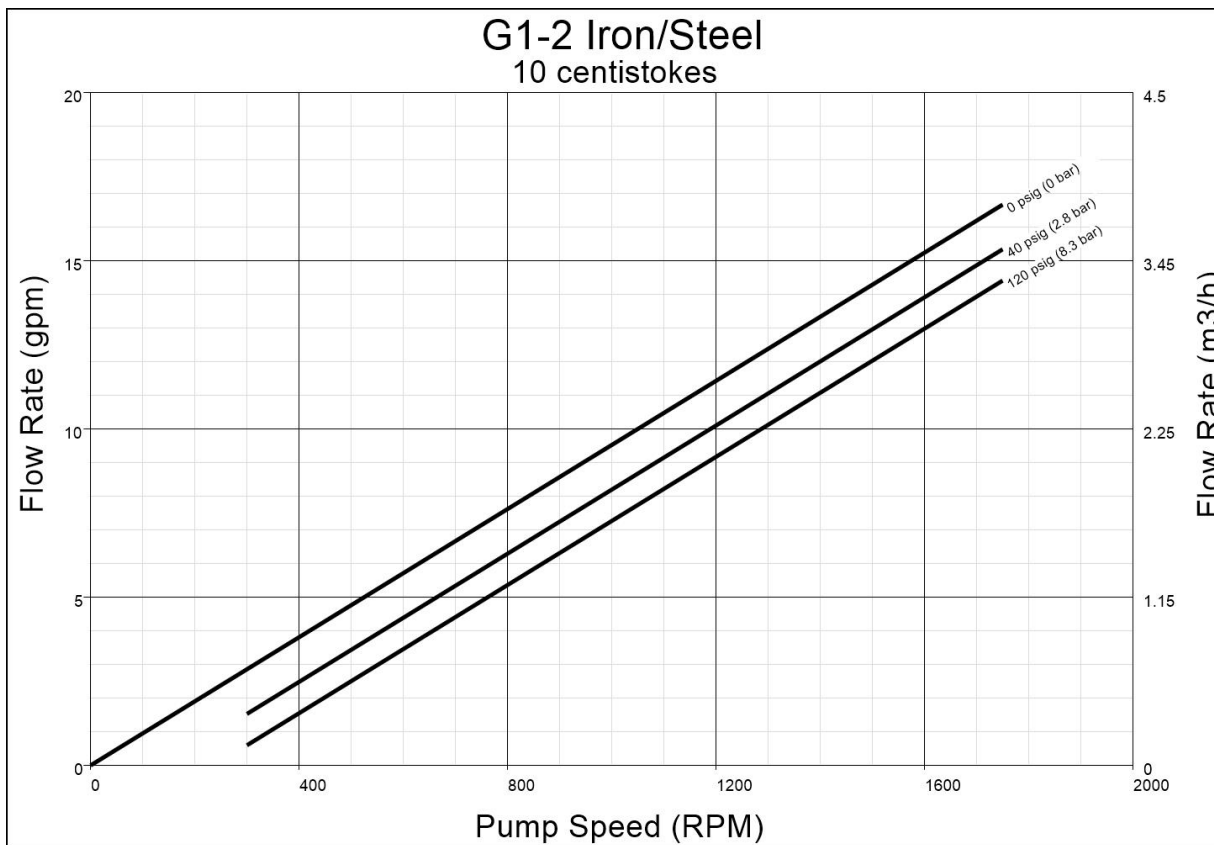
Blackmer G Series	Blackmer E Series	Viking®	Tuthill®	Gorman-Rupp®
G1-2	E1-2	H	15	GHS 1-1/2
G1-4	E1-4	HL	30	GHS 1-1/2
G1-24	E1-24	K	120	GHS 2
G1-32	E1-32	KK	130	GHS 2
G1-55 / G2-55	E1-55	L & LQ	200	GHS 2-1/2, 3
G1-69 / G2-69	E1-69	LL	210	GHS 3
G1-82 / G2-82	E1-82	LS	250	GHS 3
G1-133 / G2-133	E1-133	Q	N/A	GHS 4
G1-222 / G2-222	E1-222	QS	550	GHS 6

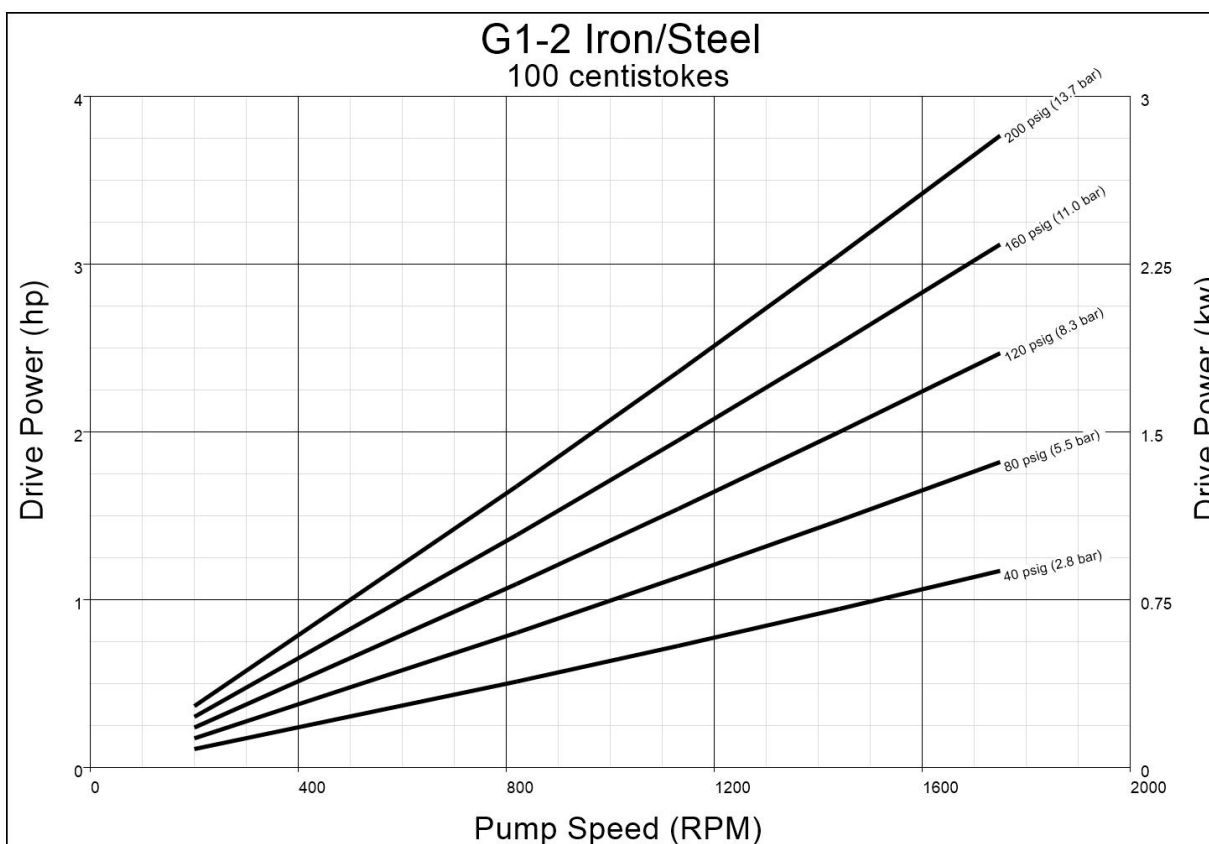
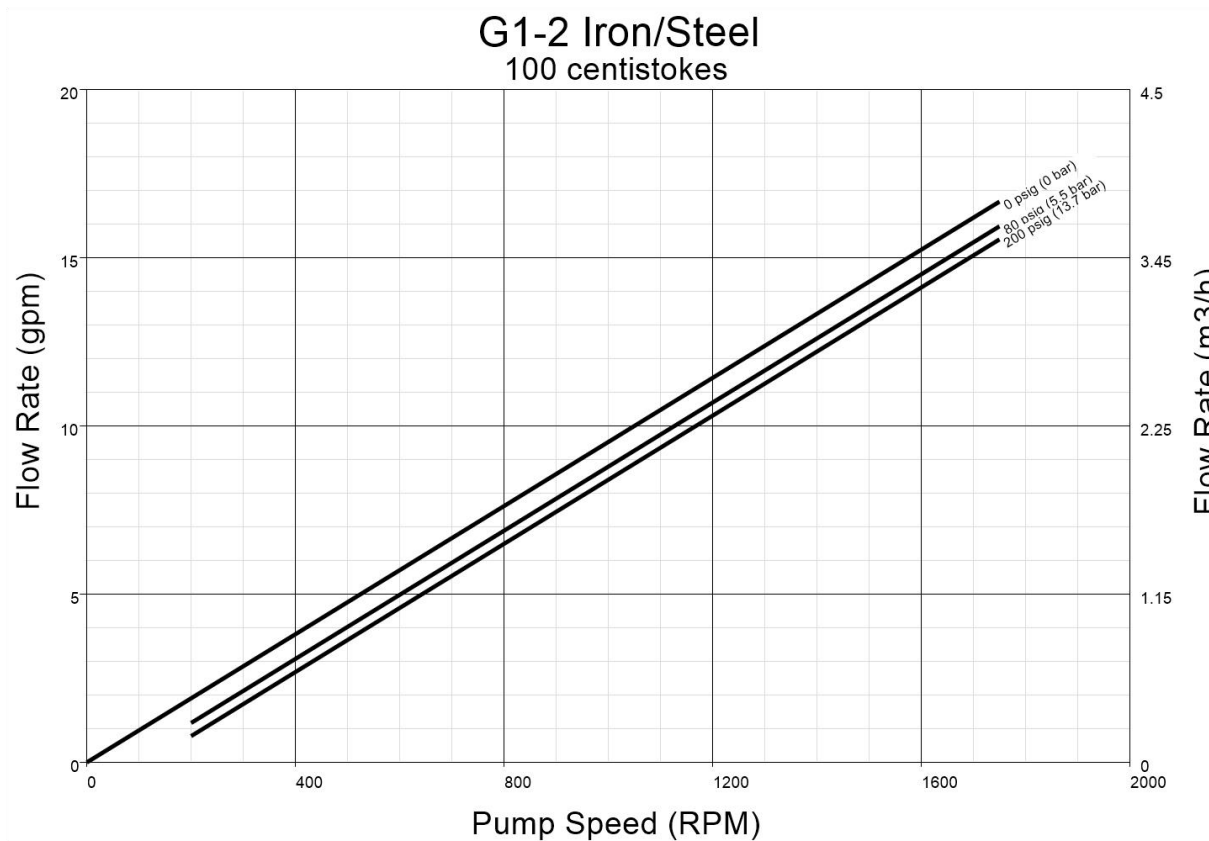
Note: See the [Blackmer Competitor Dimensional Comparison Guide](#) for detailed dimensional information

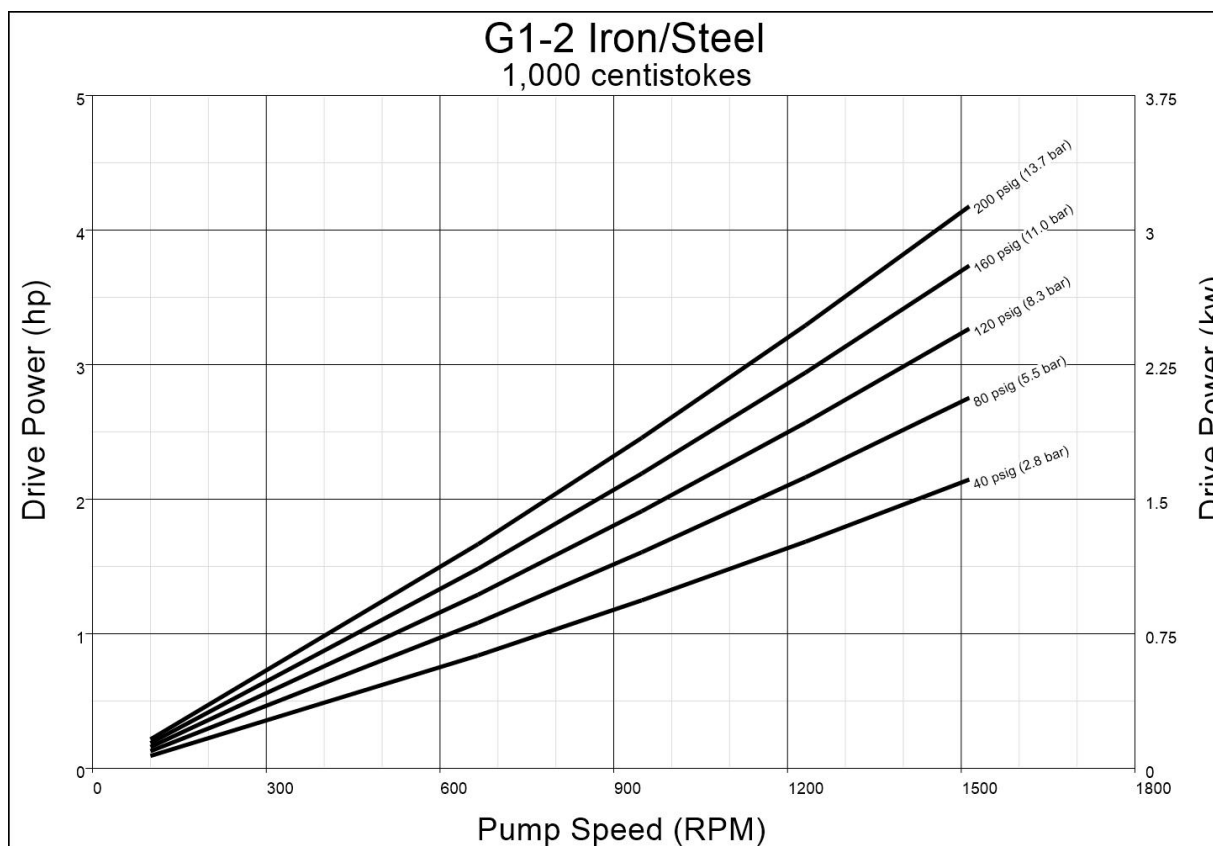
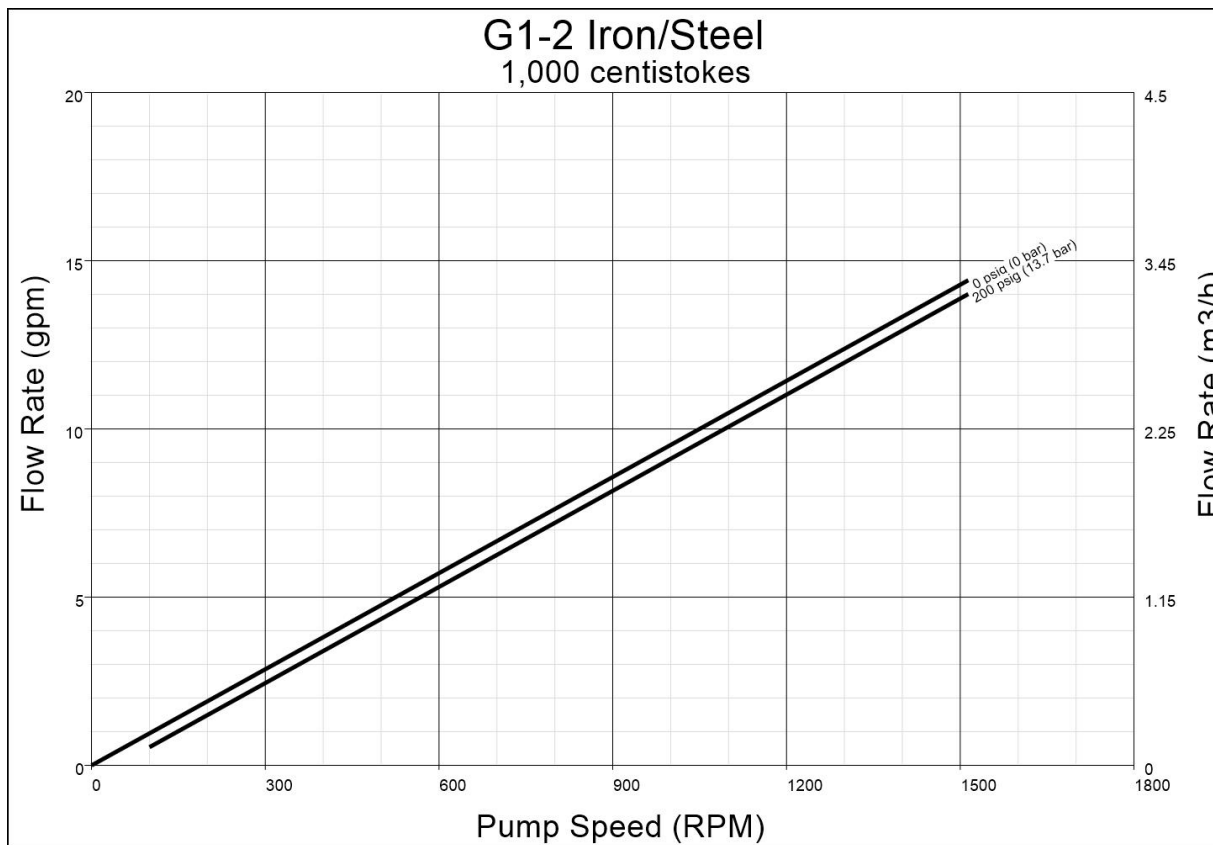
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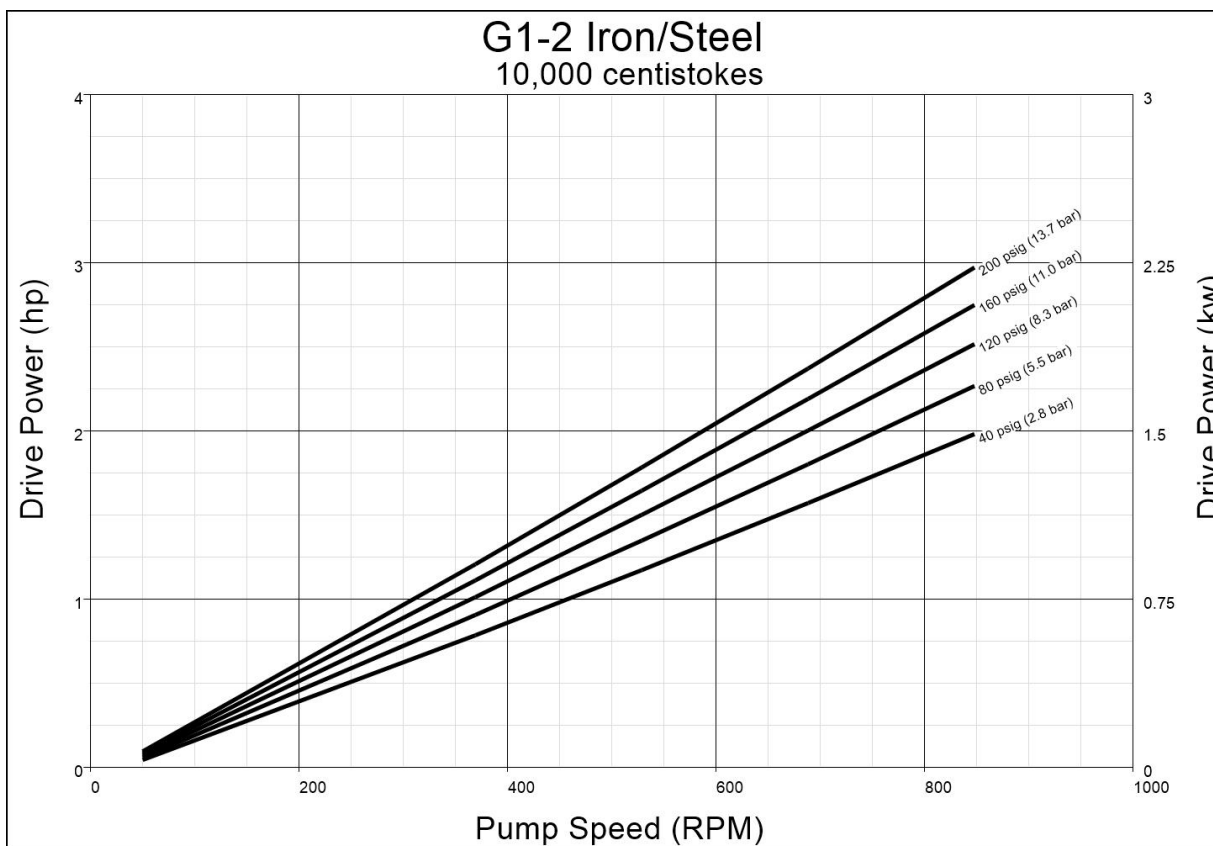
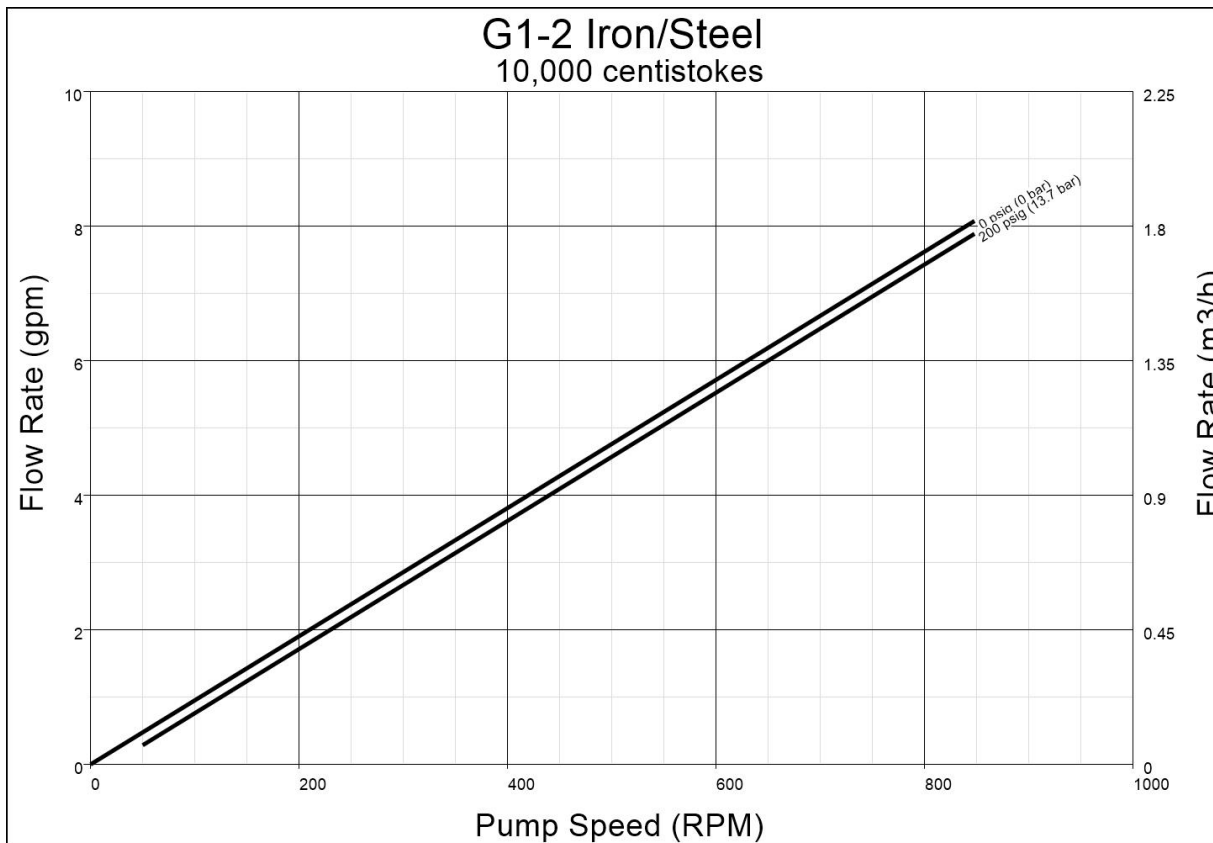


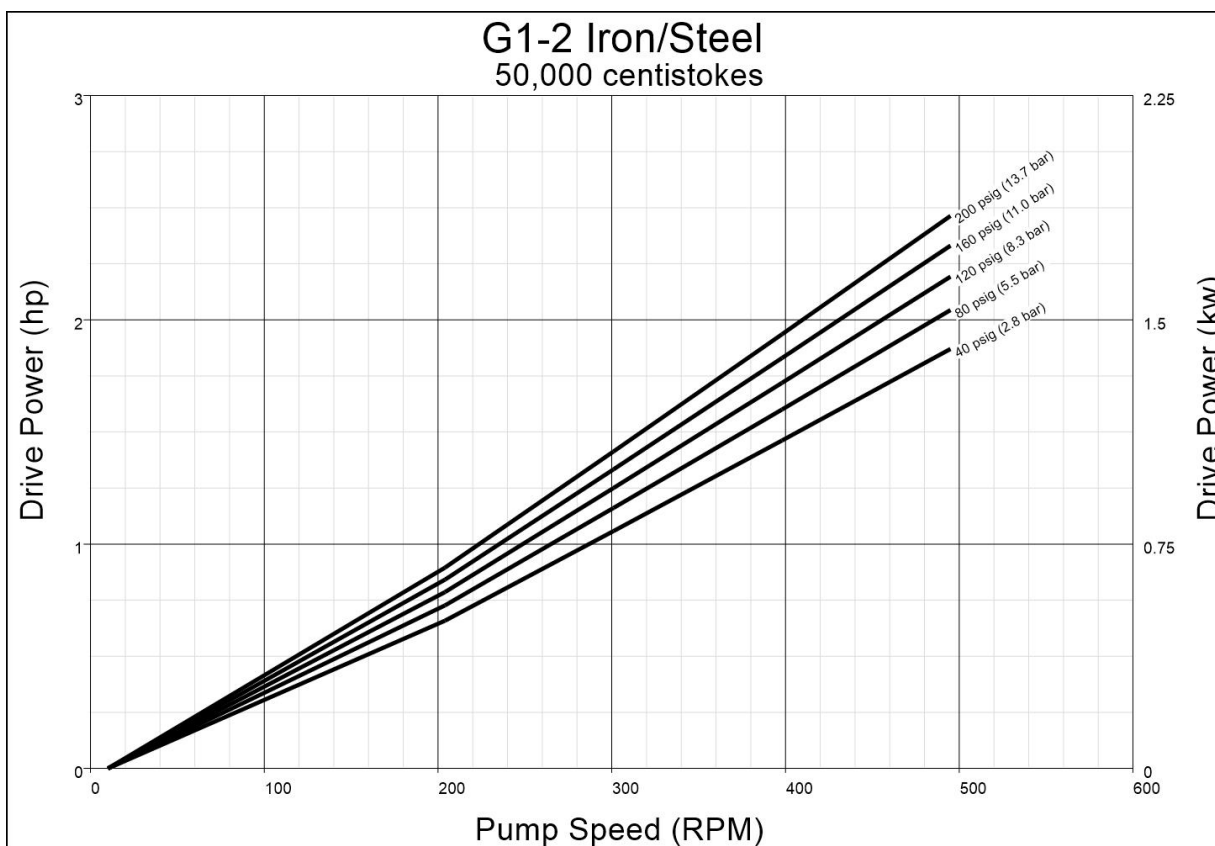
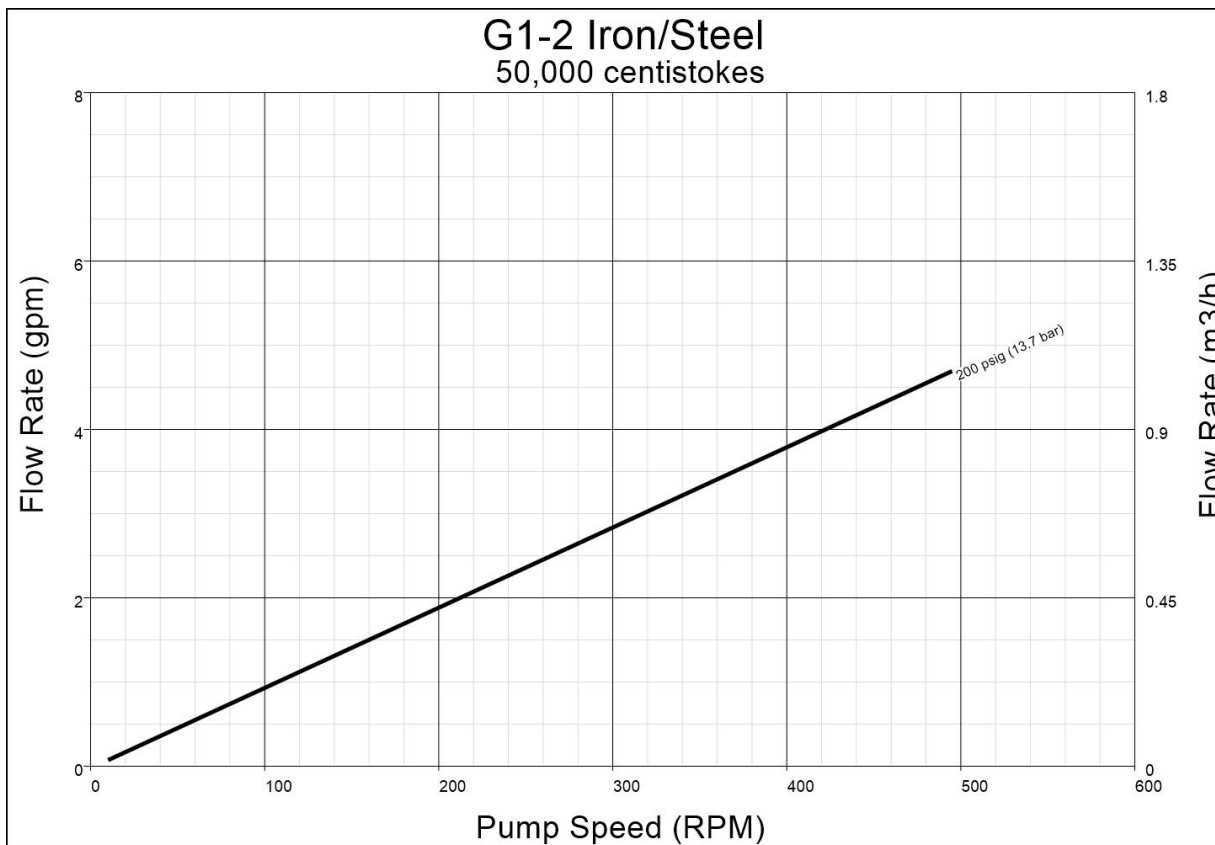


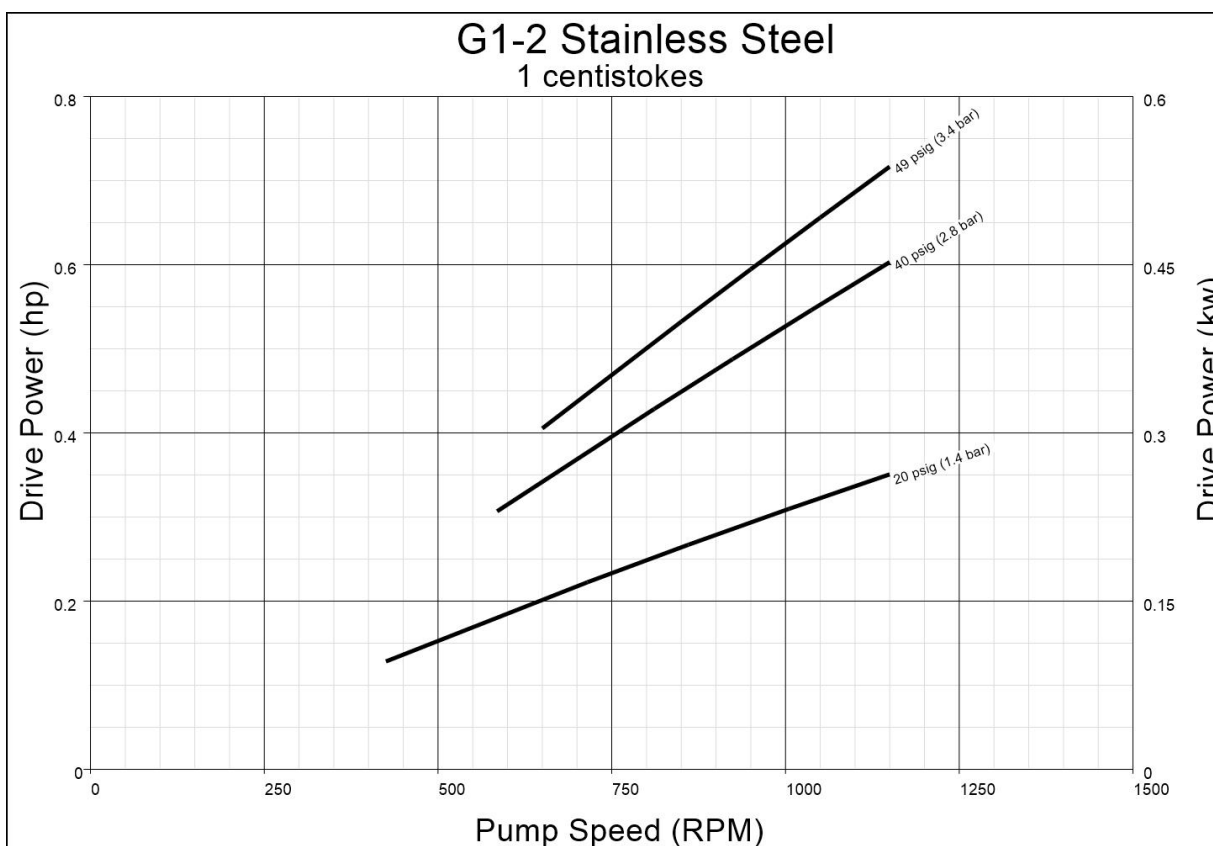
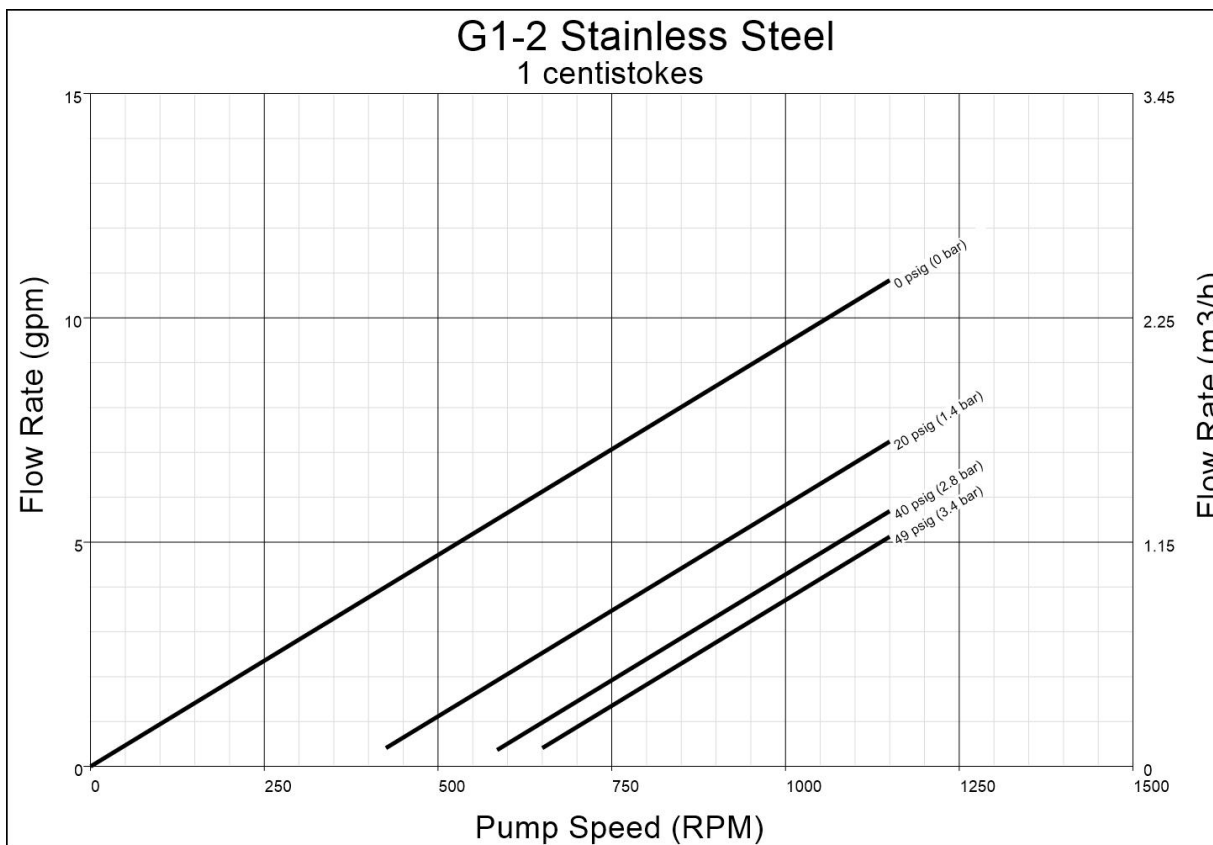


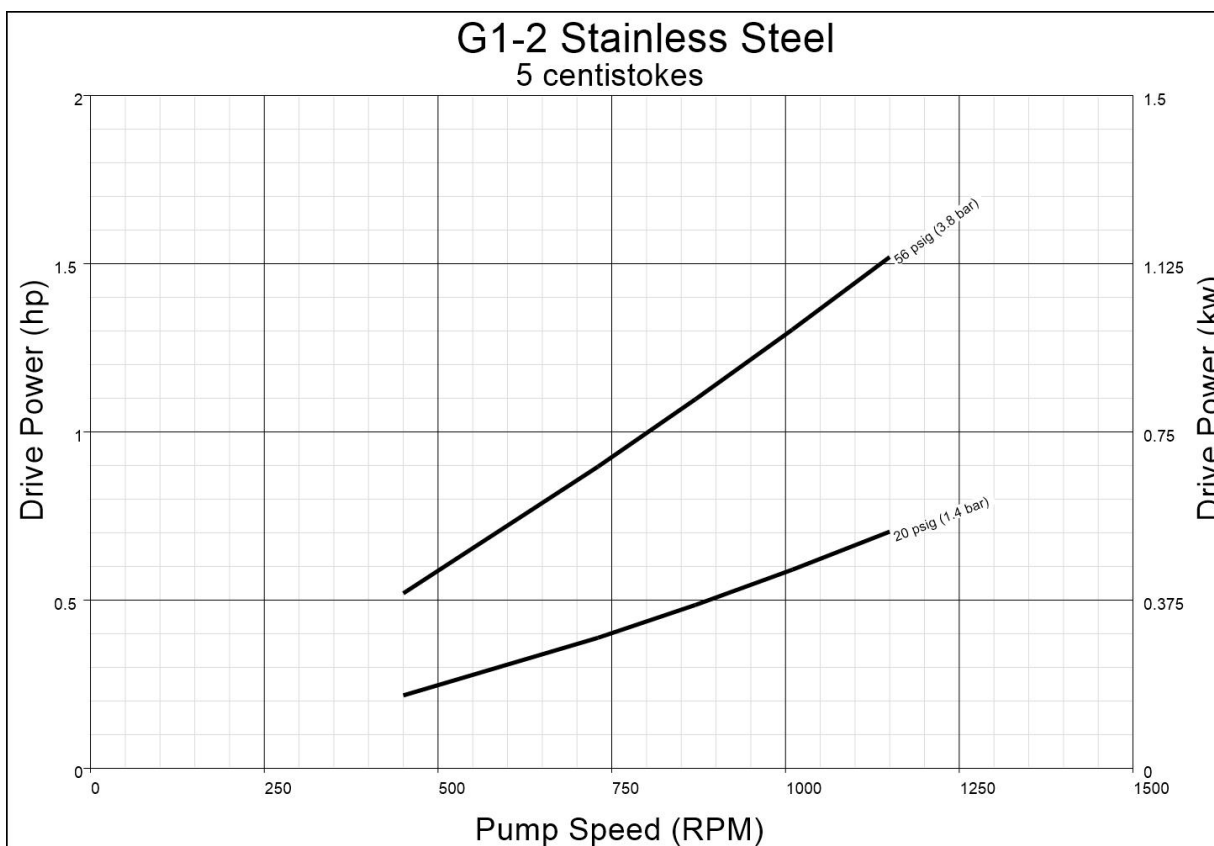
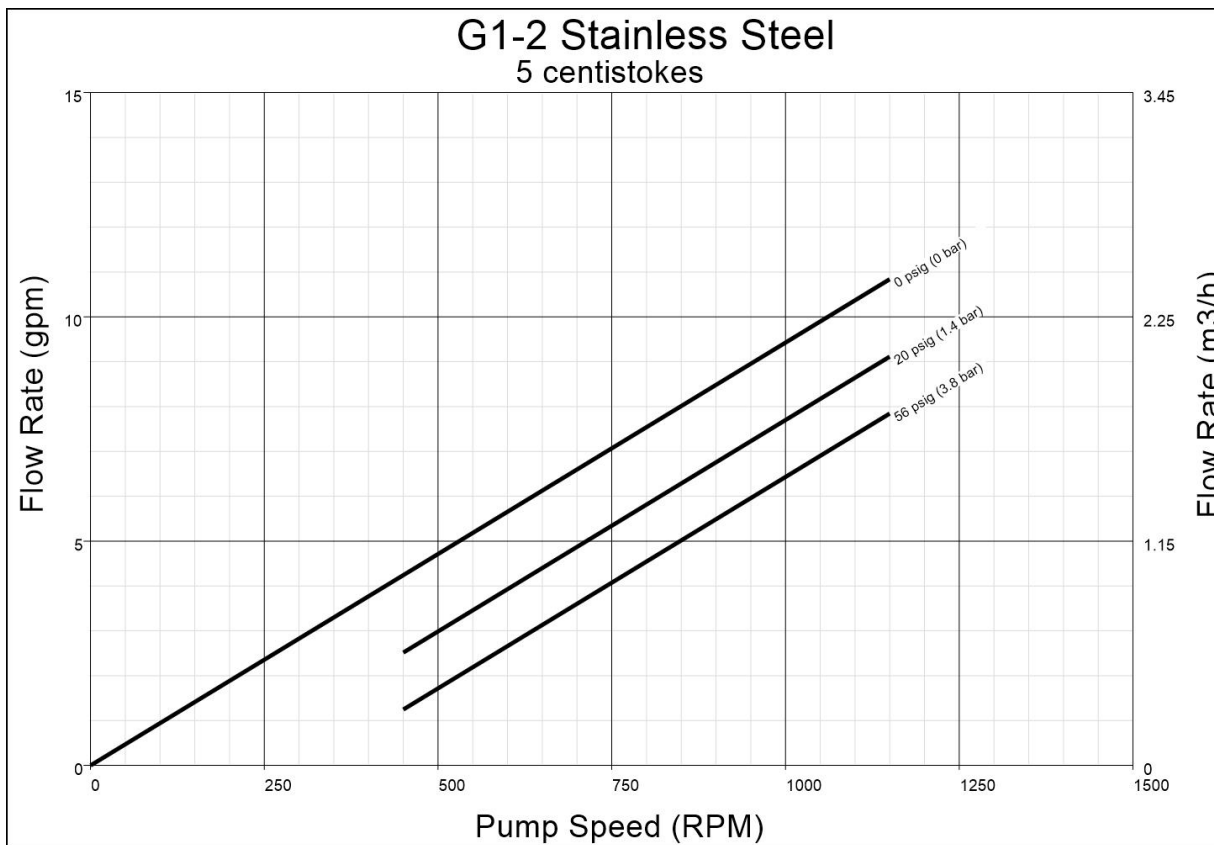


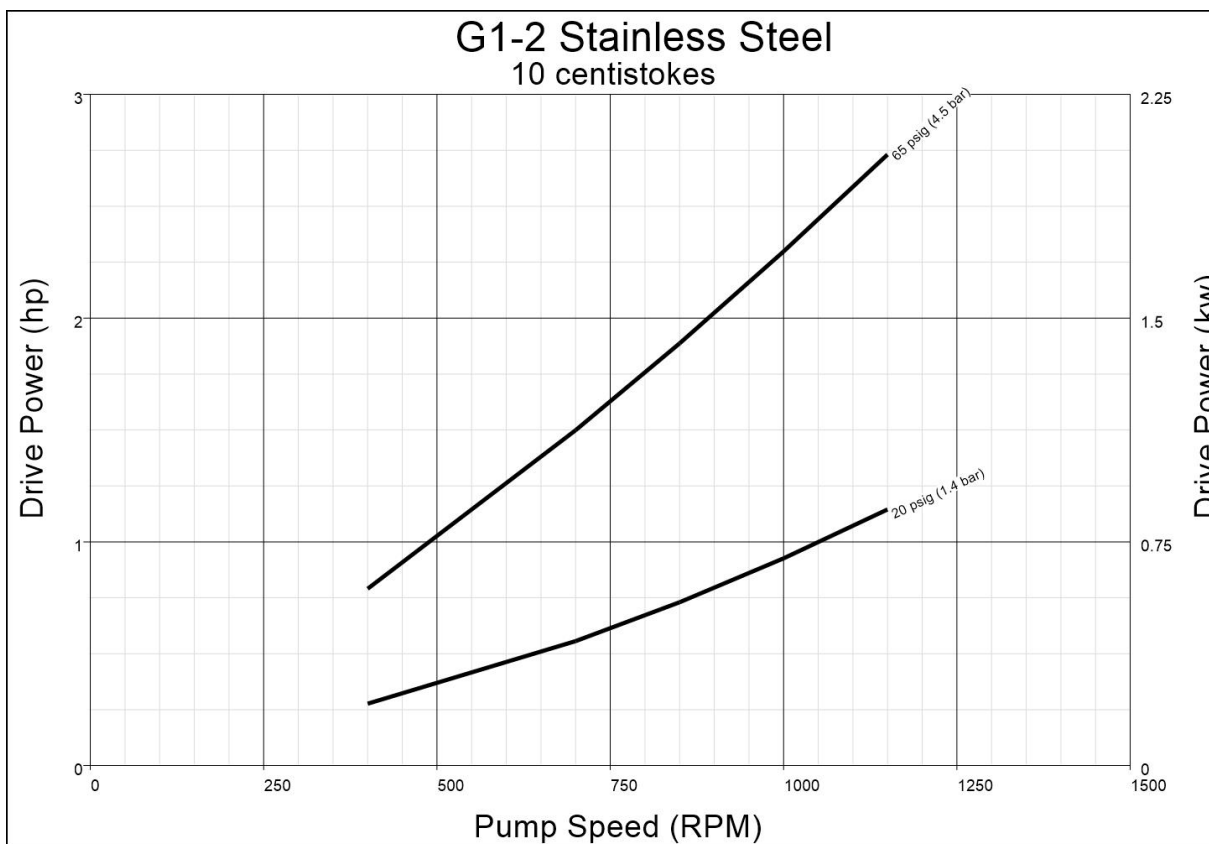
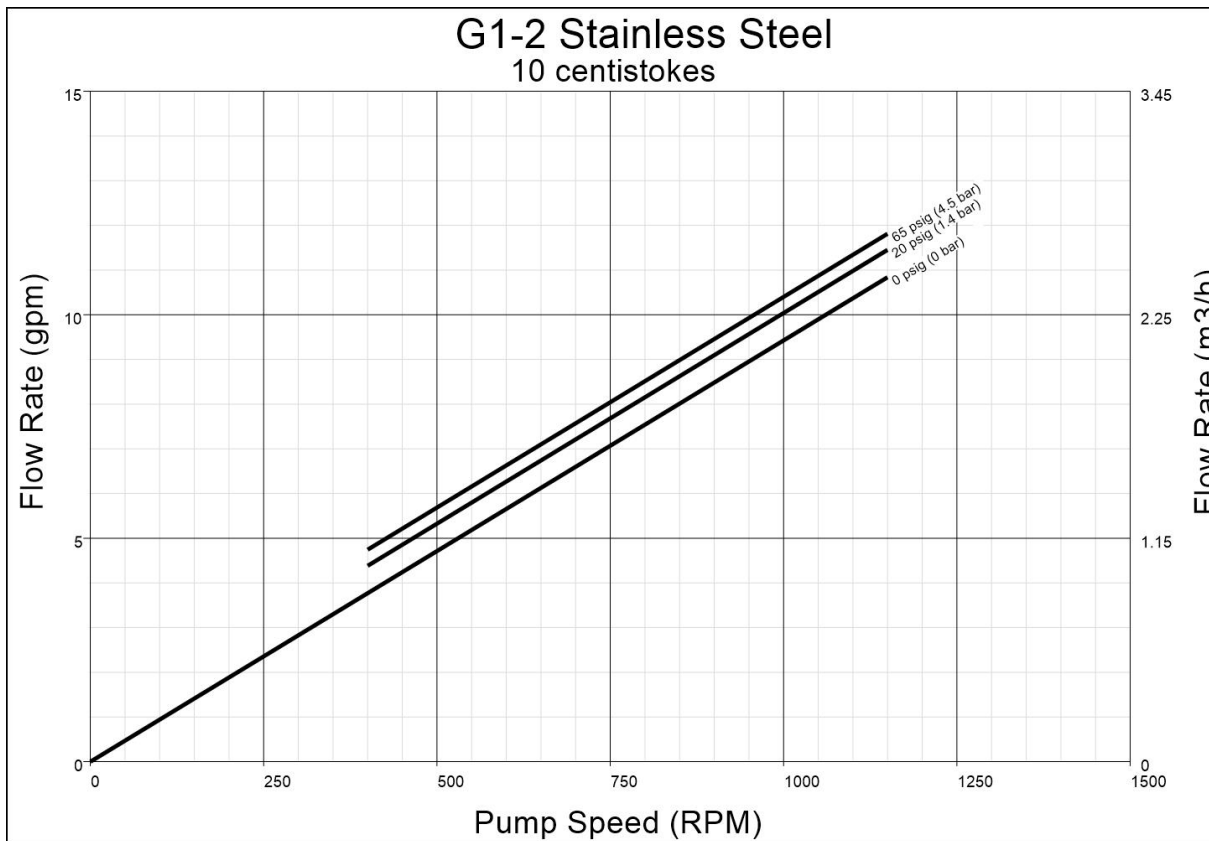


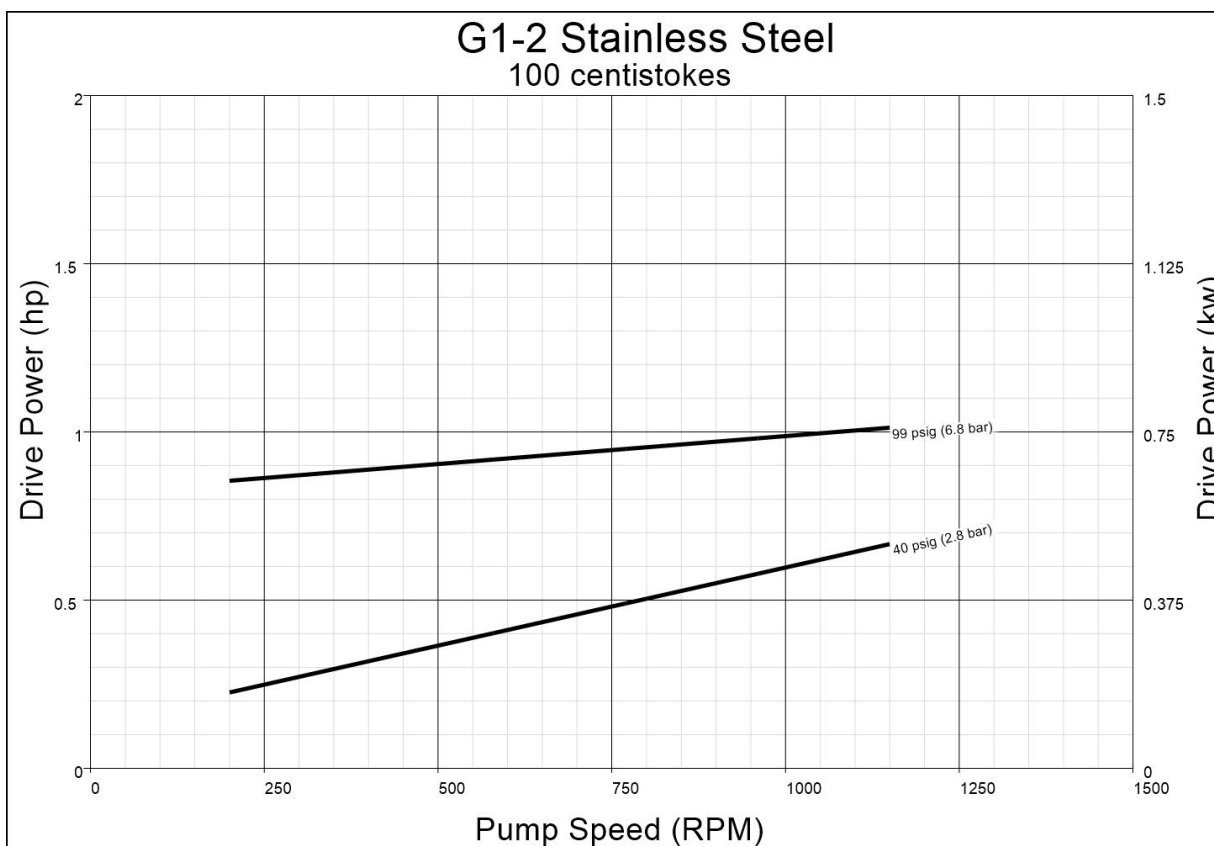
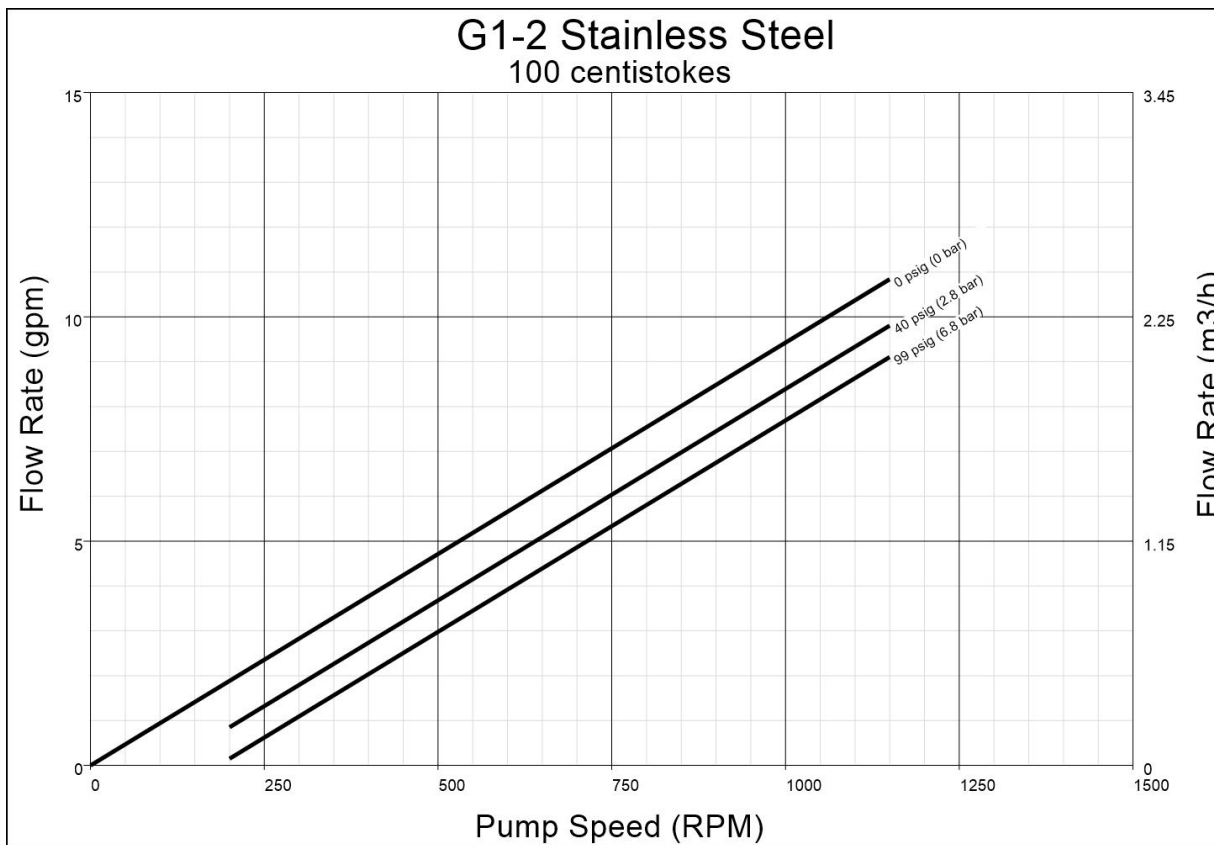


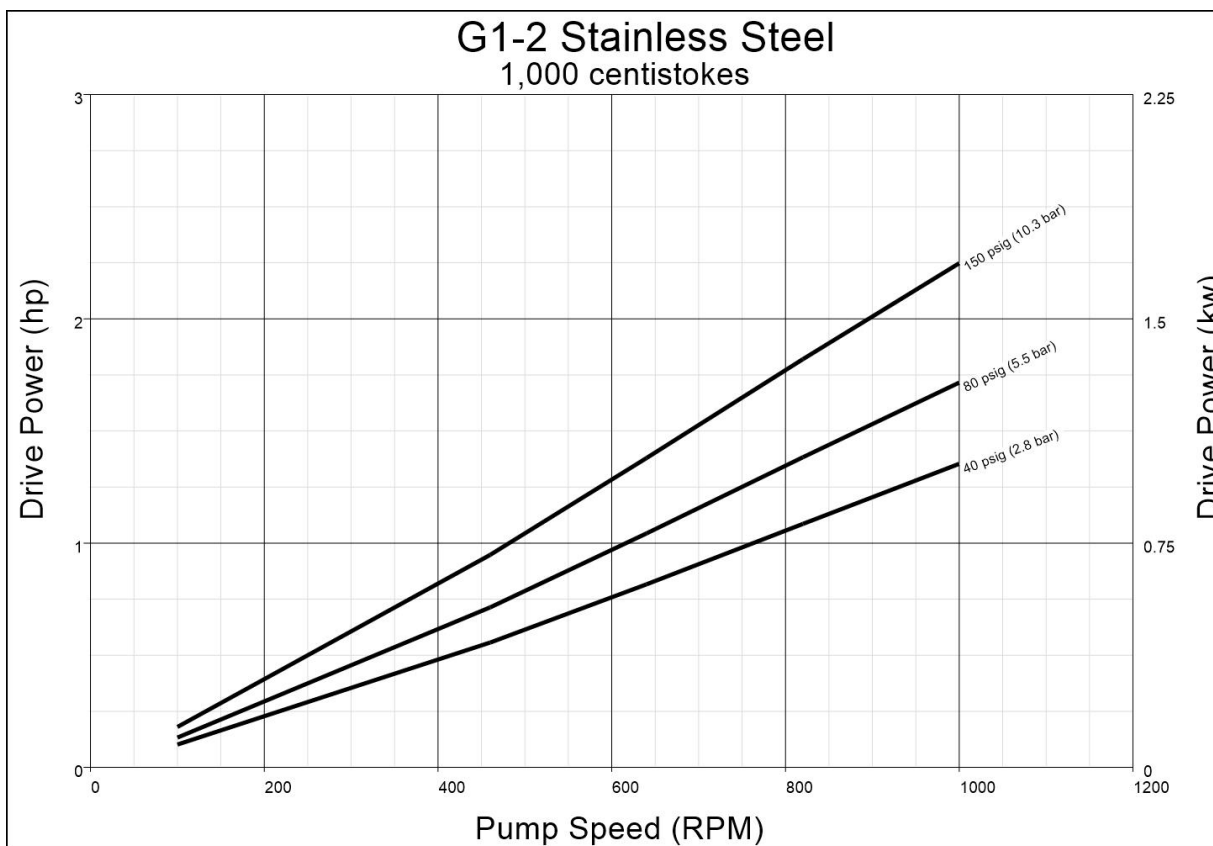
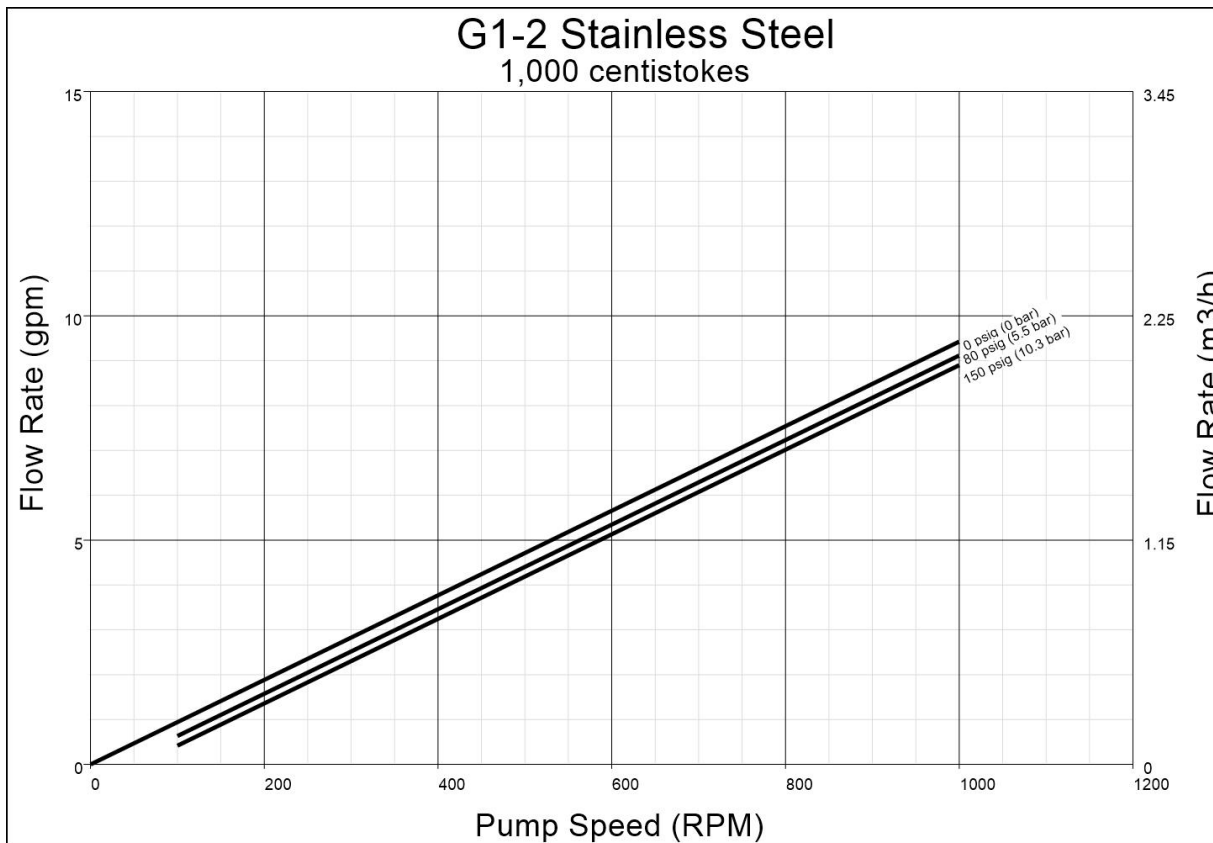


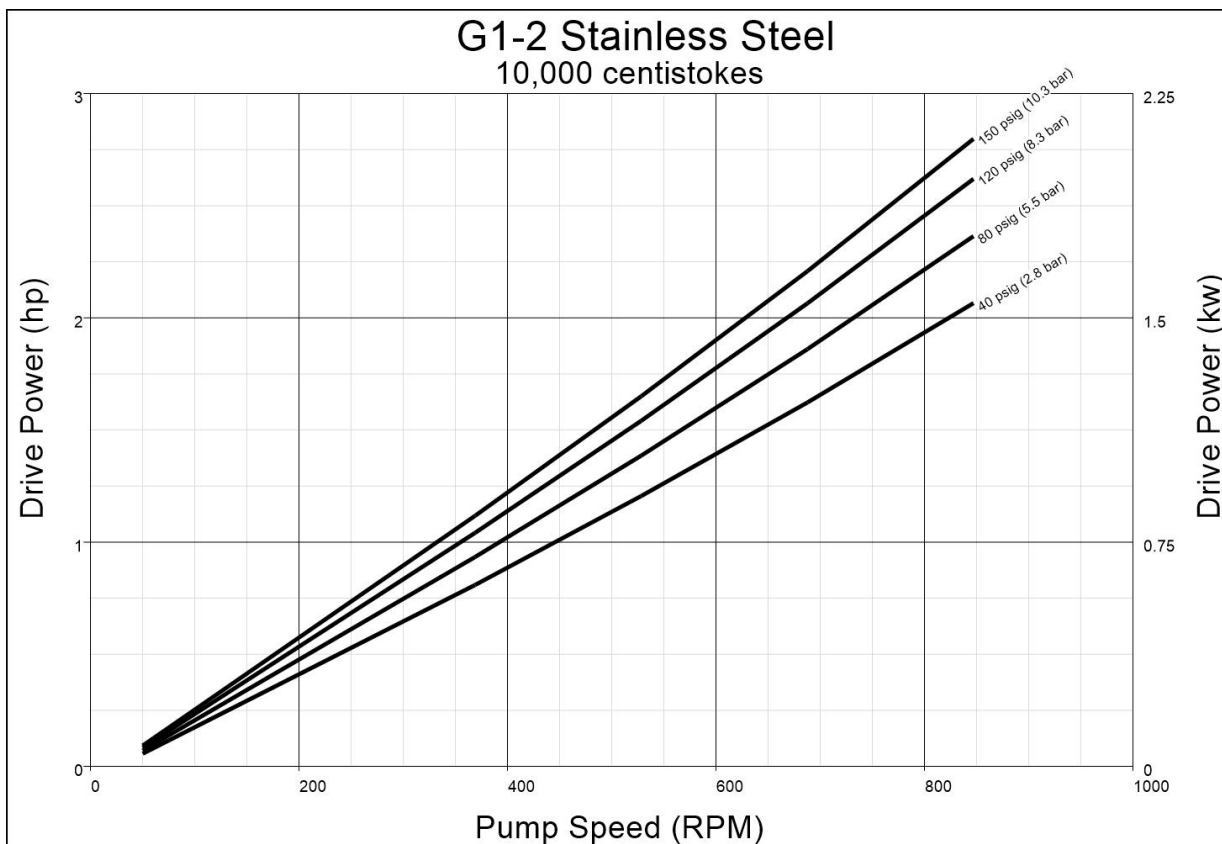
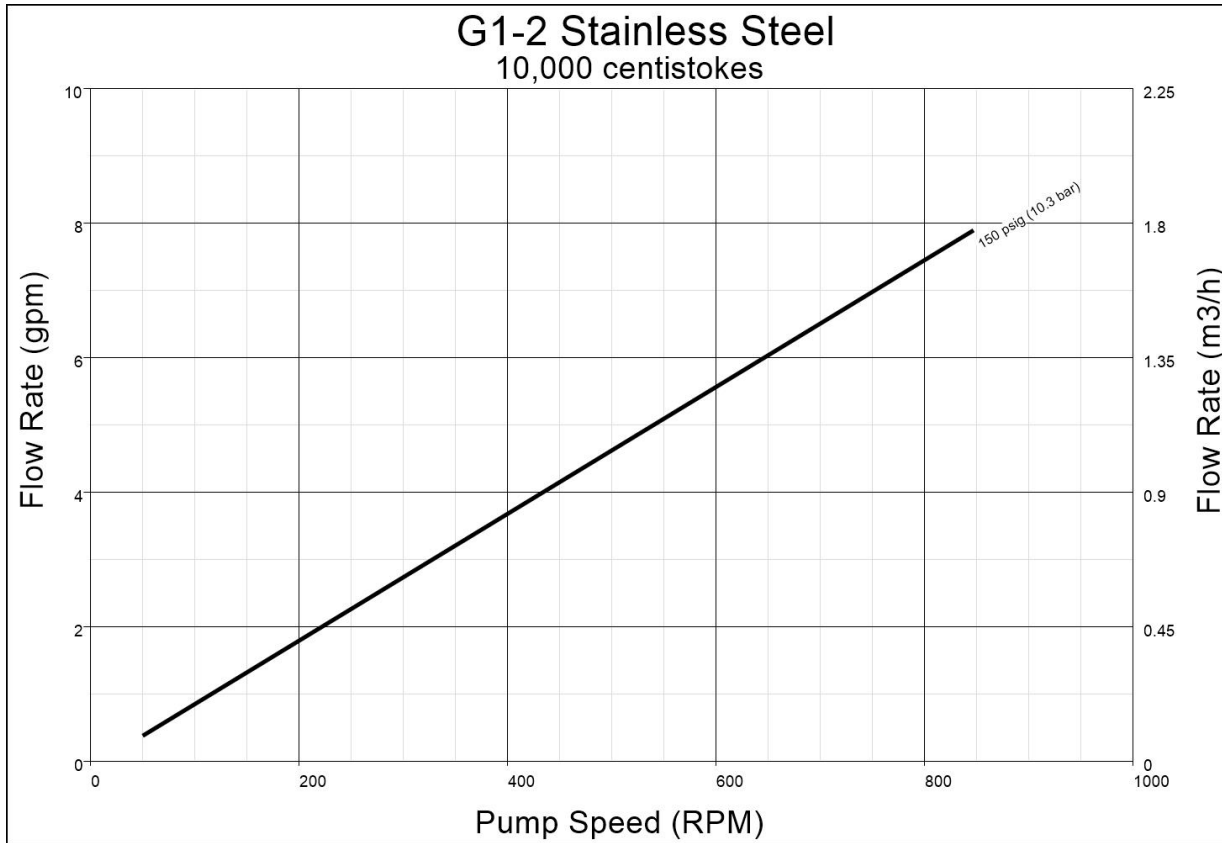


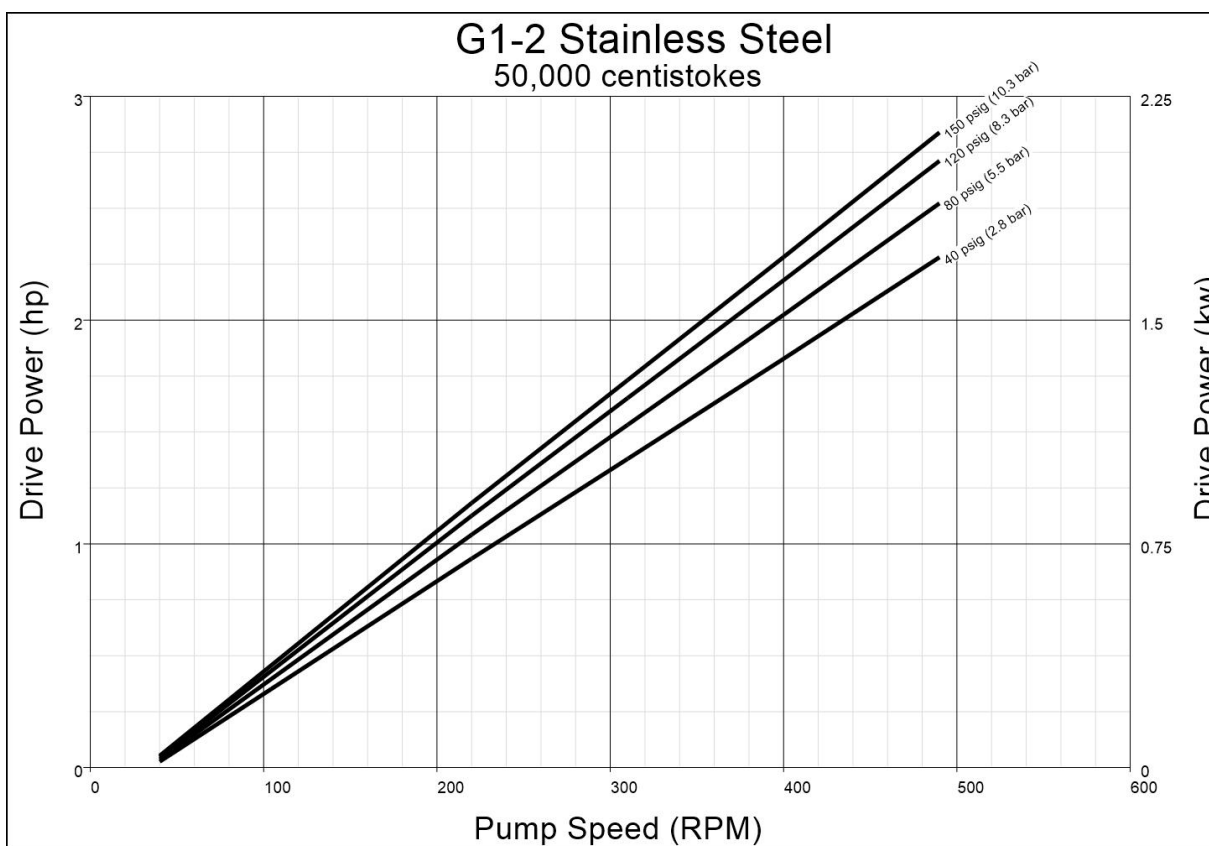
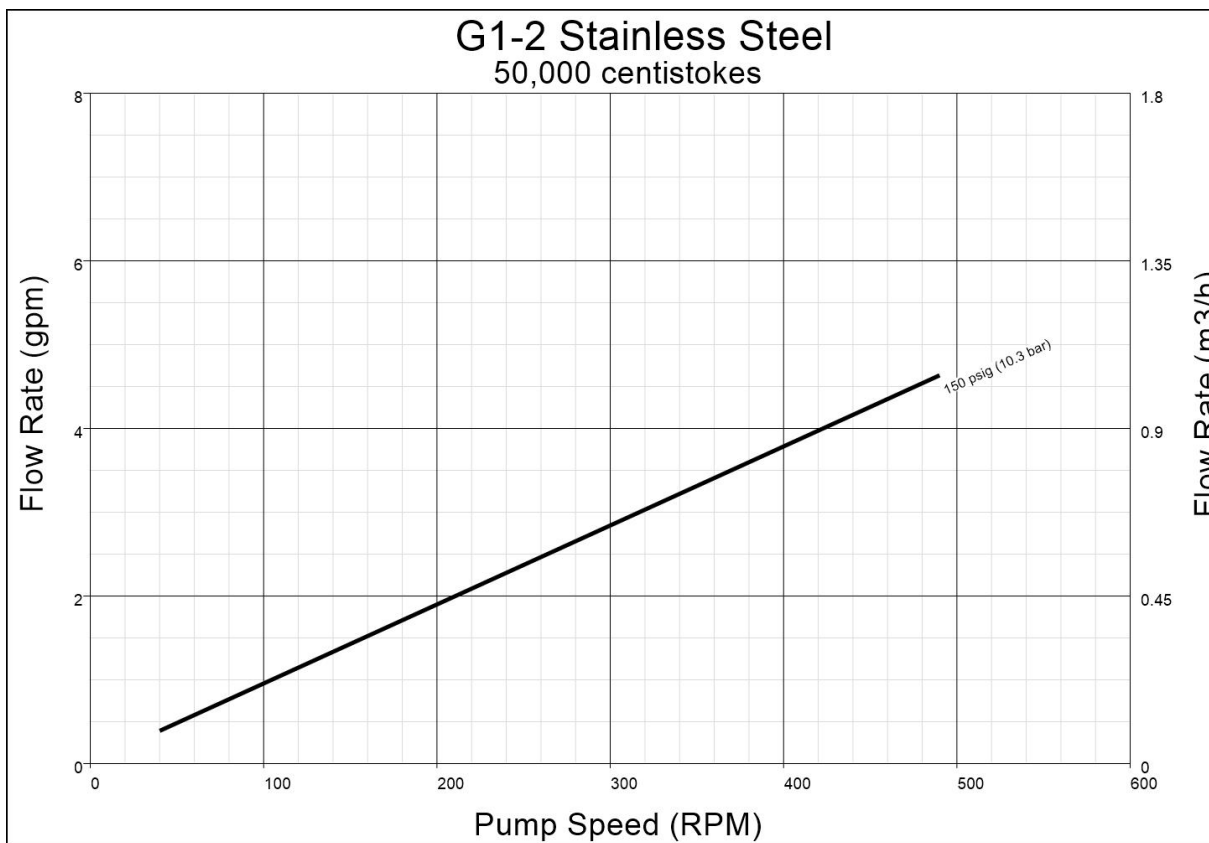


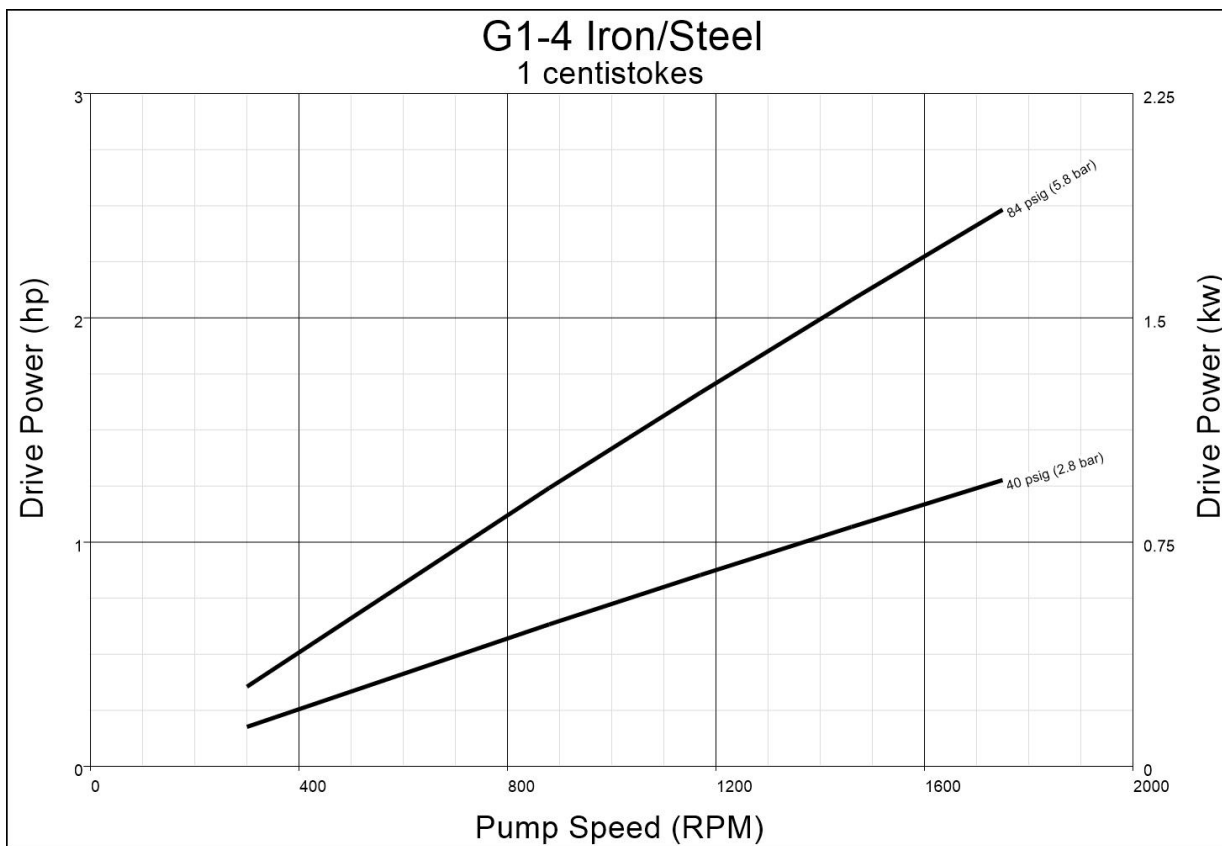
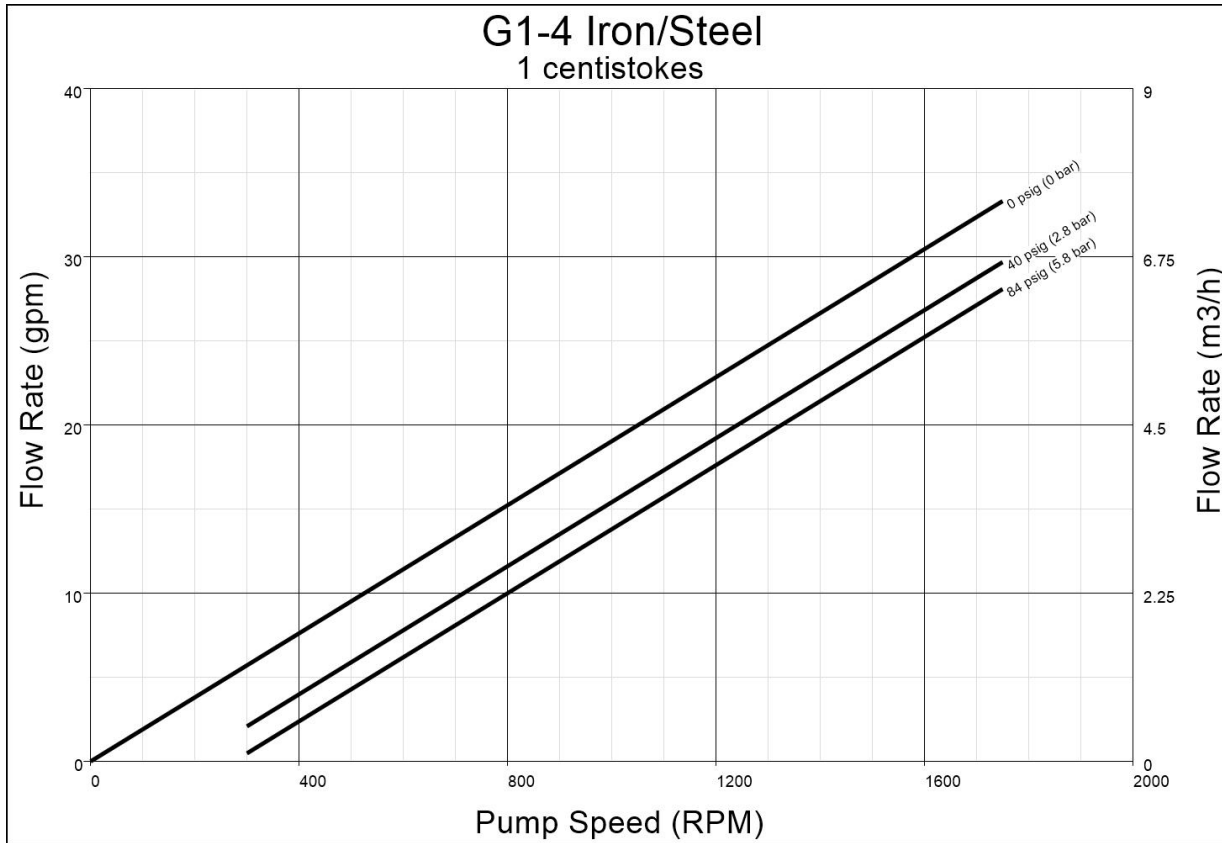


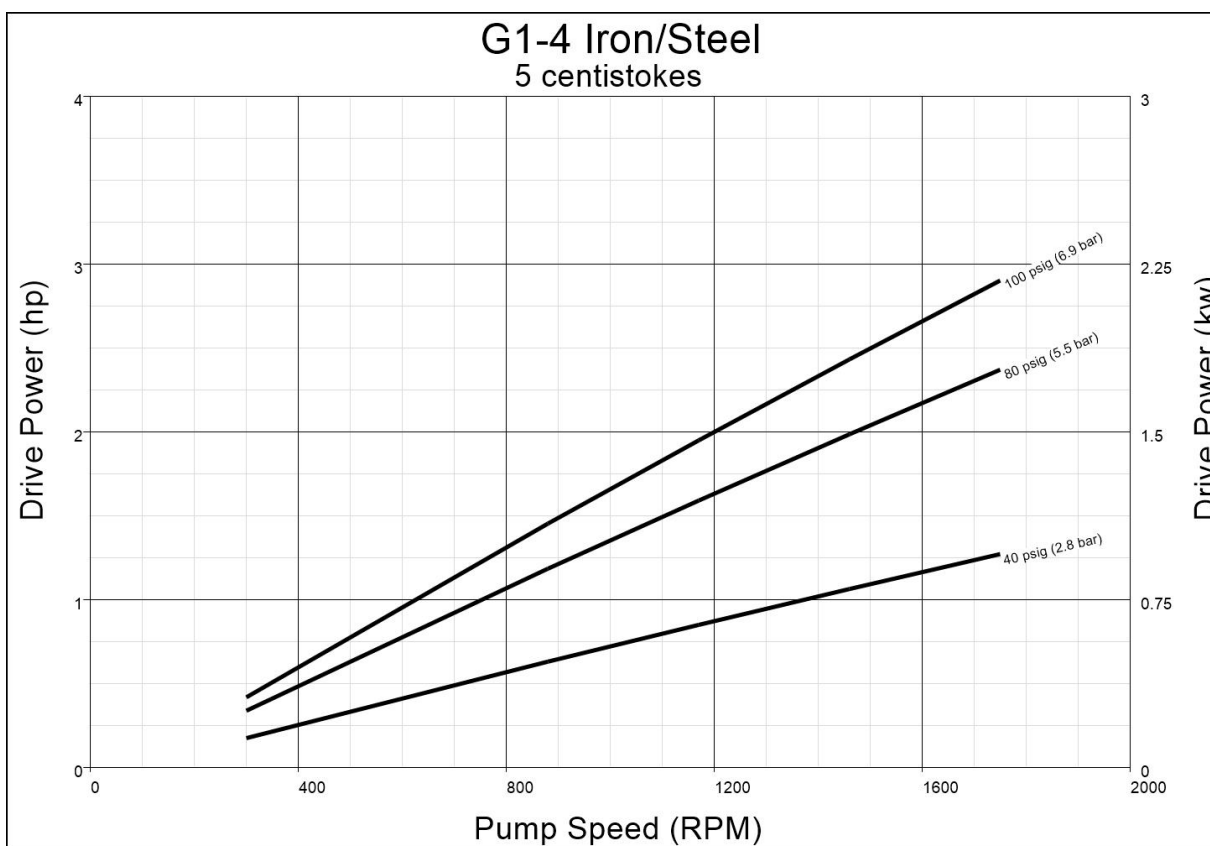
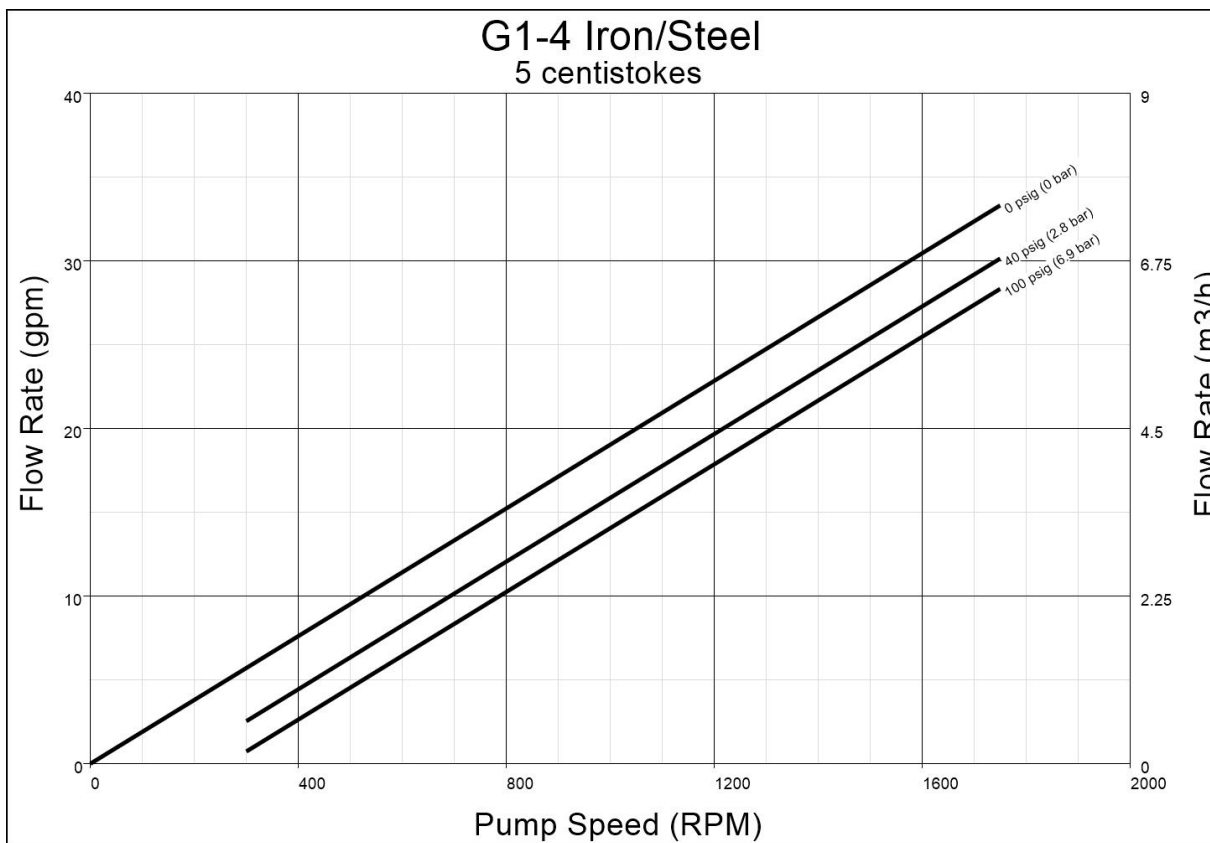


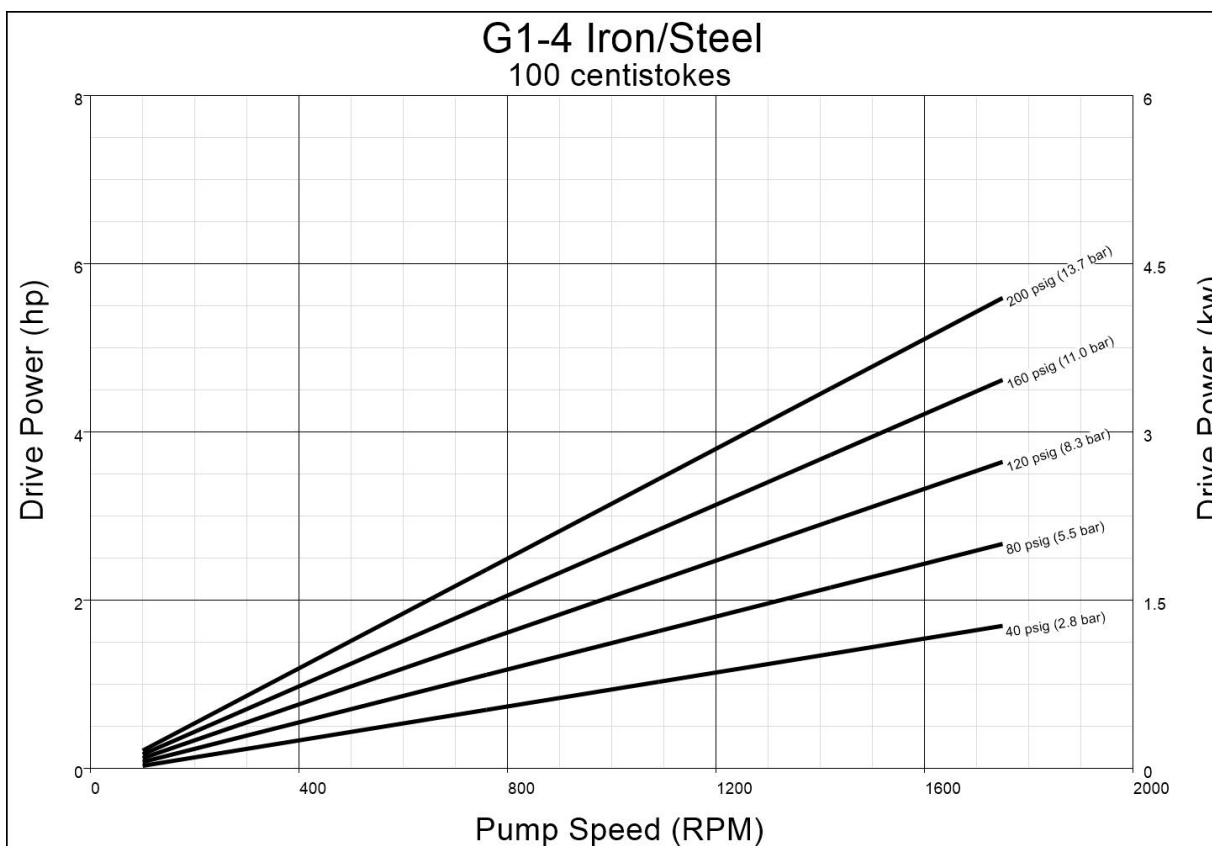
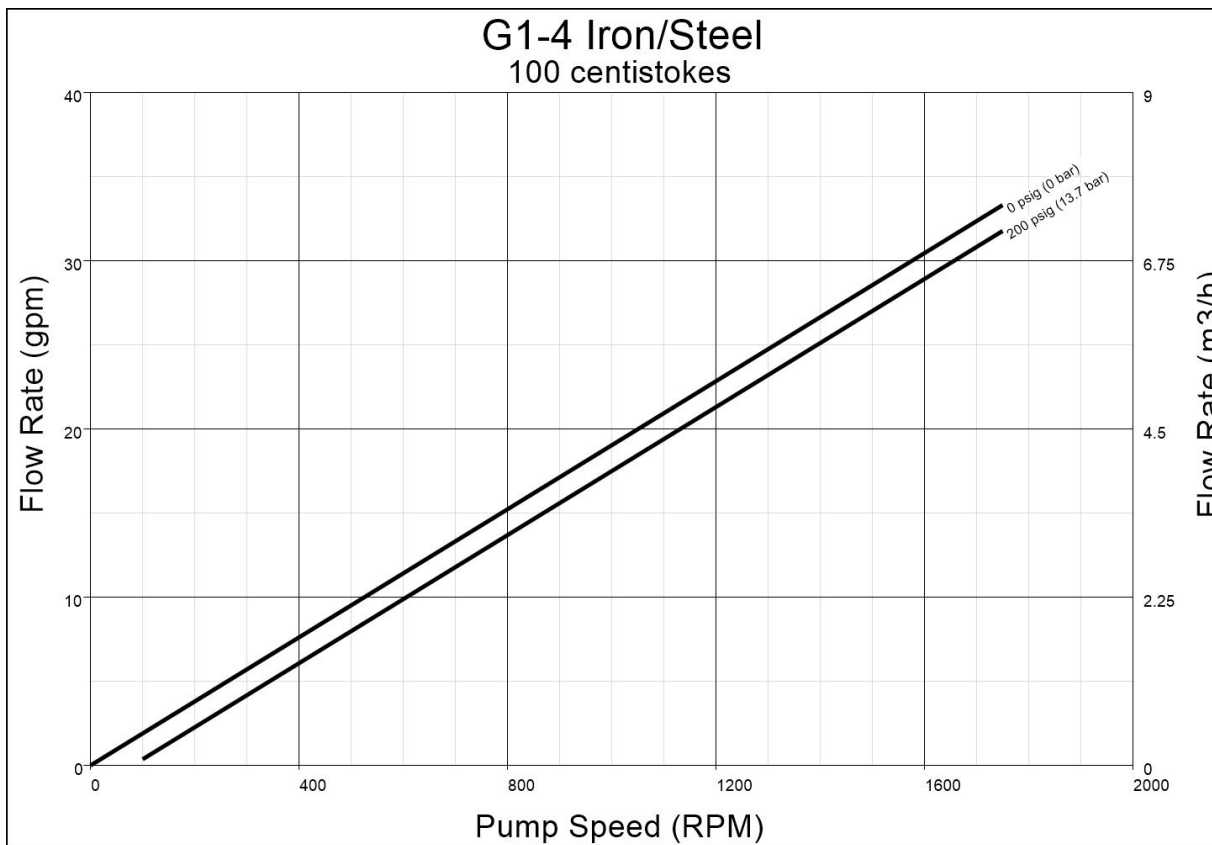


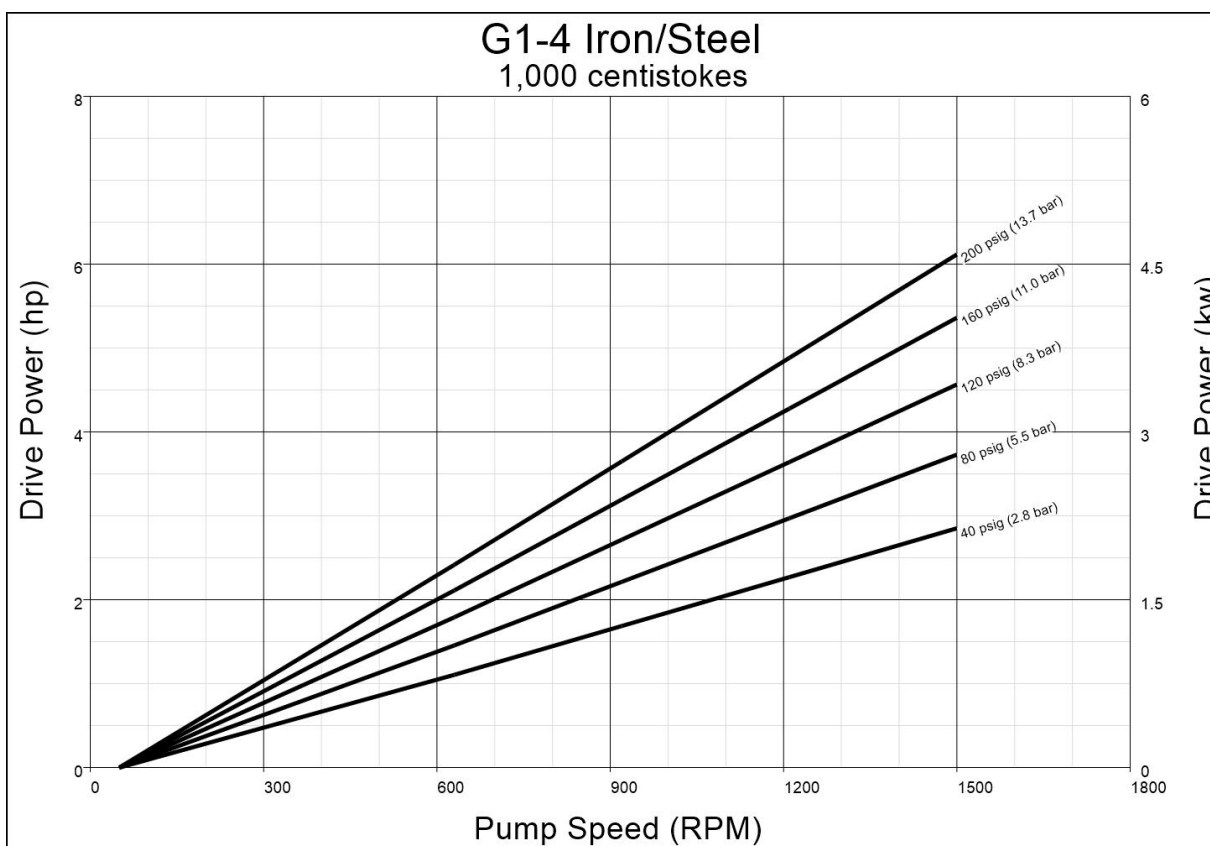
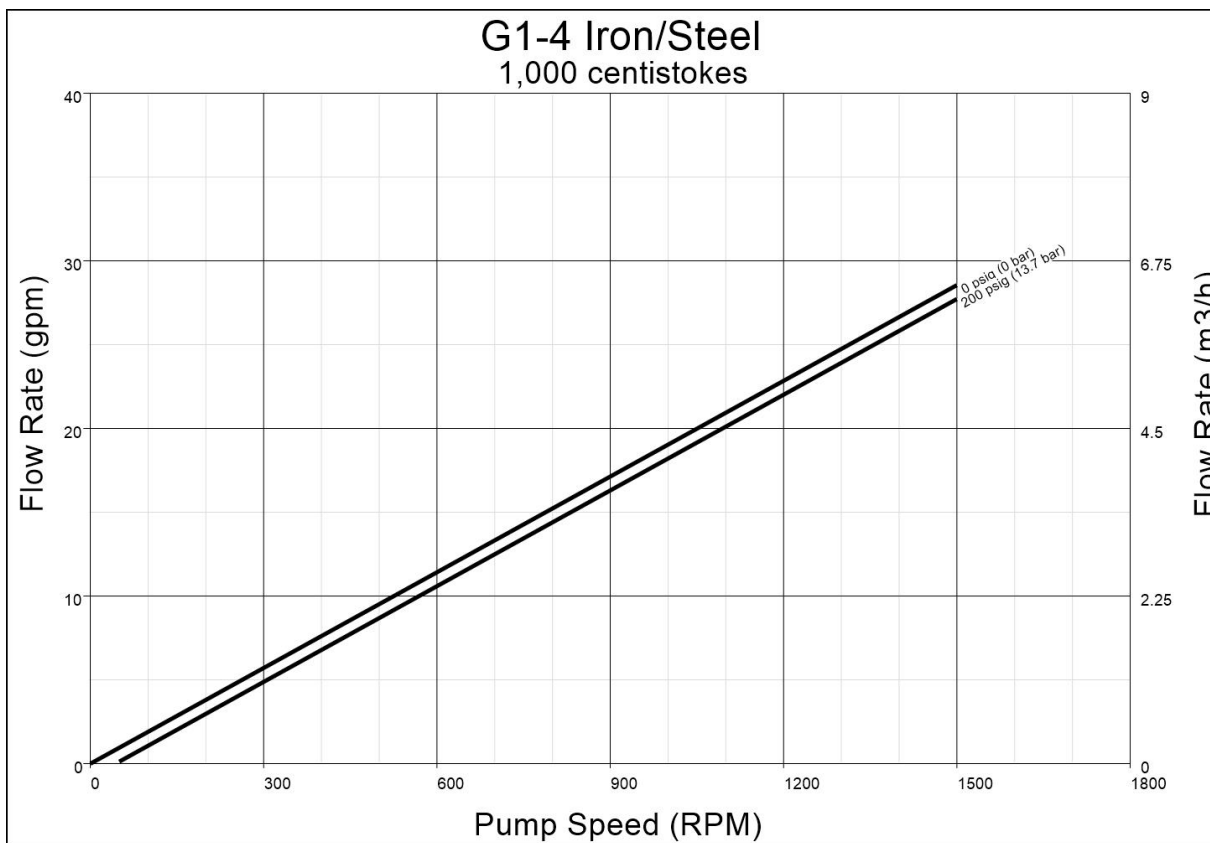


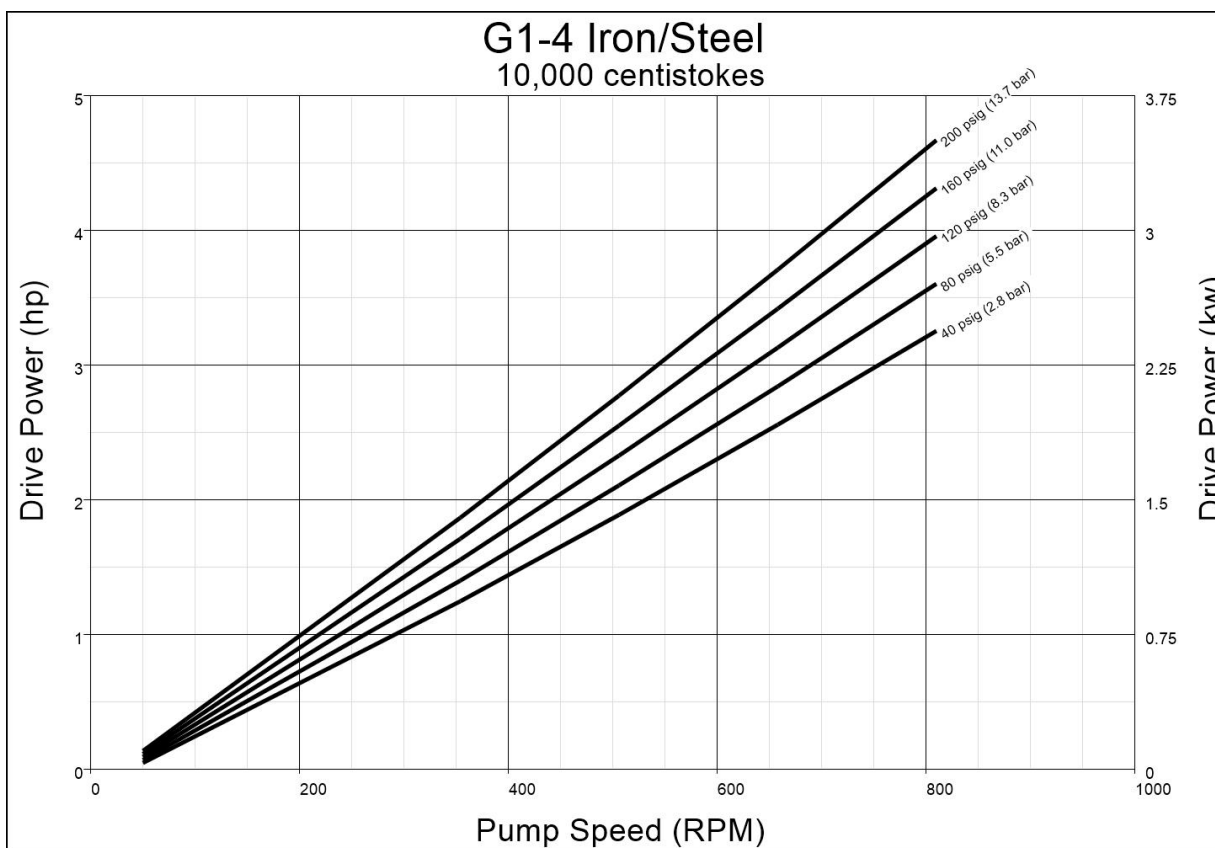
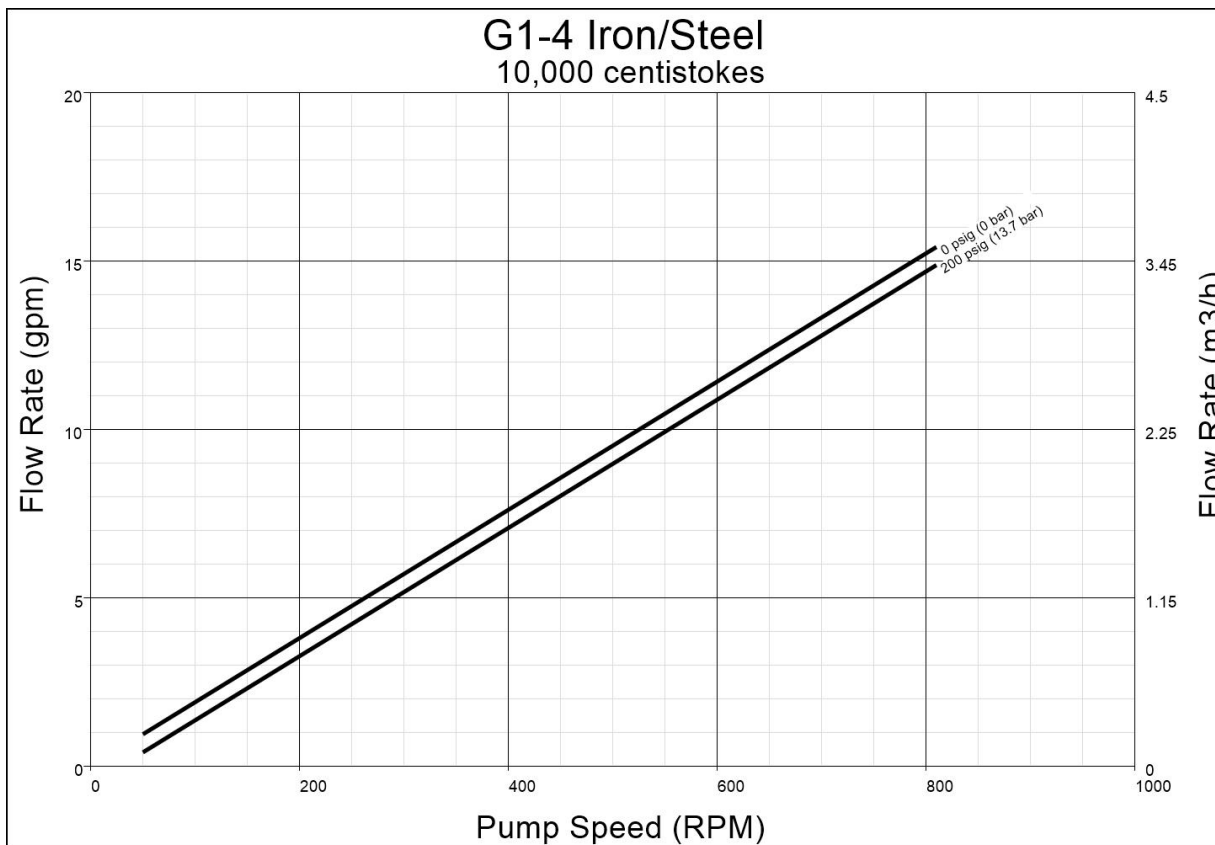


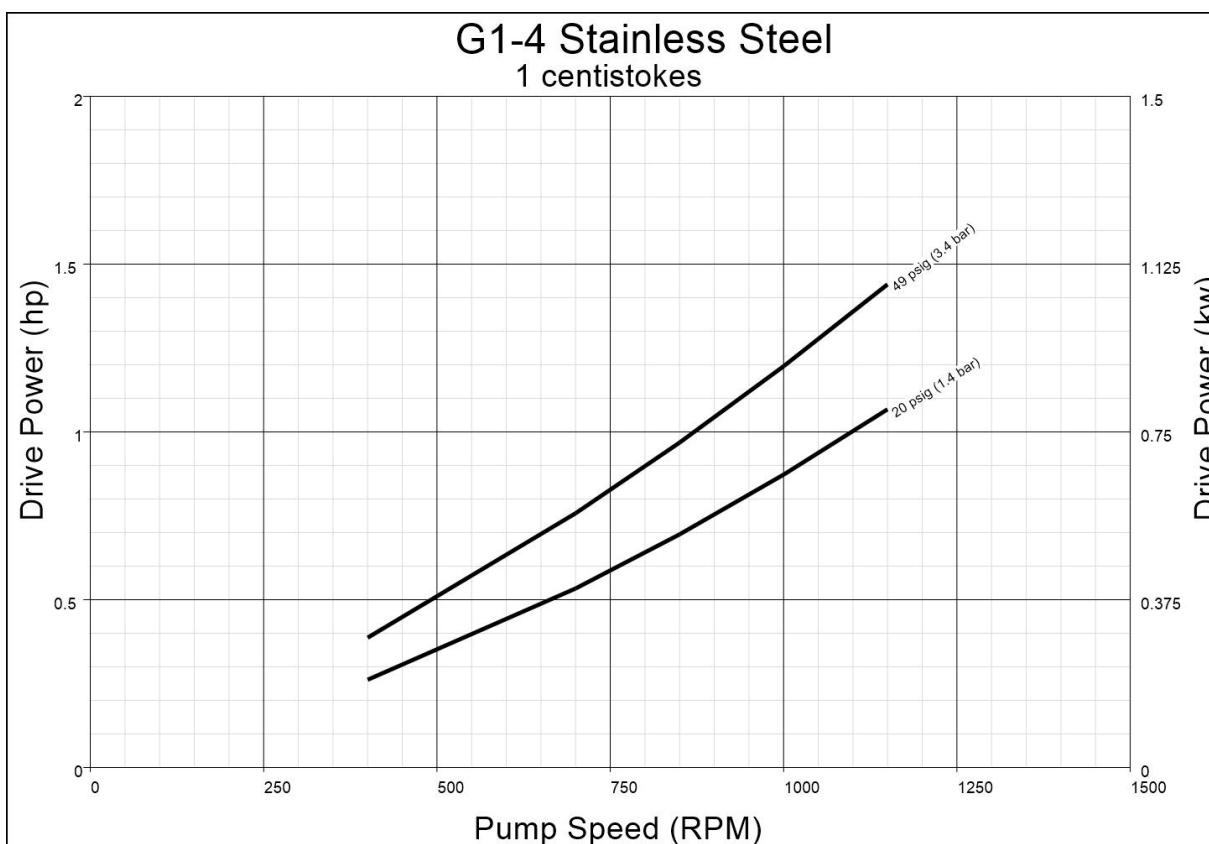
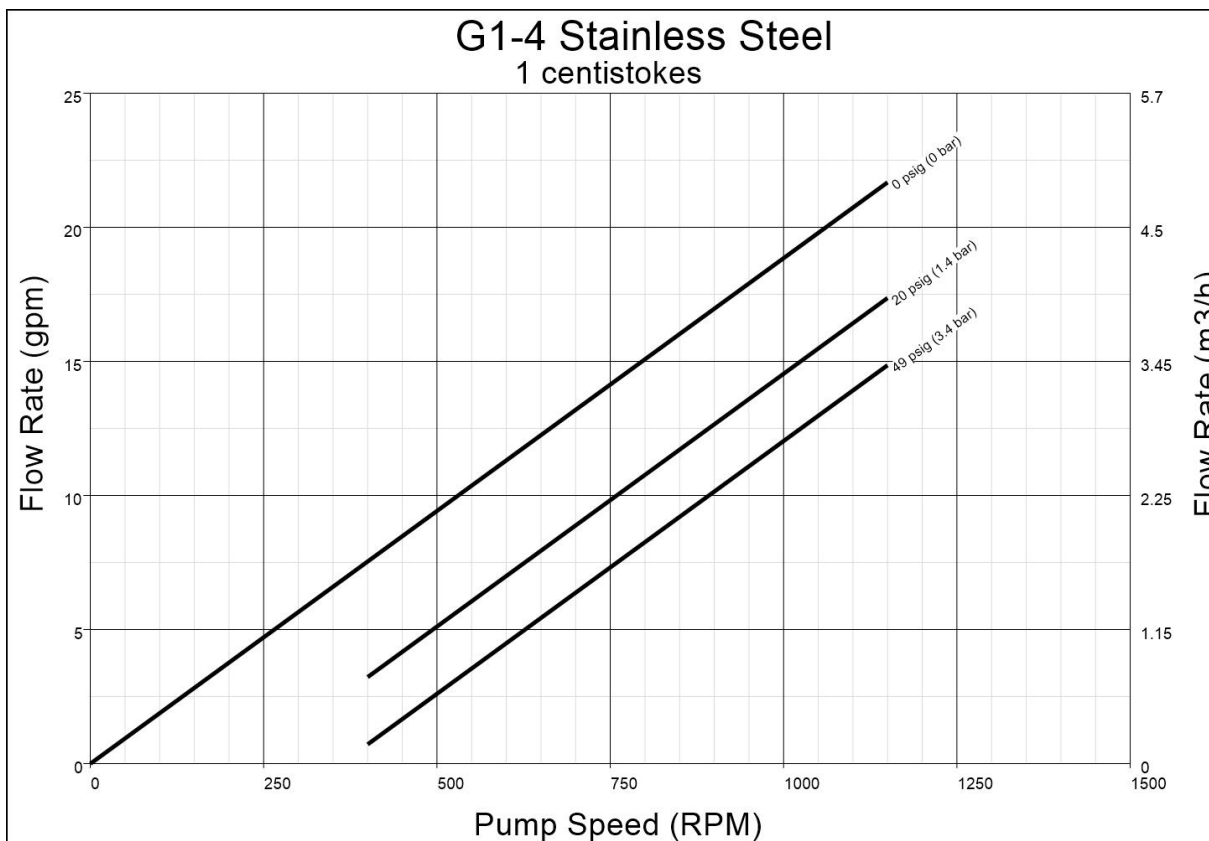


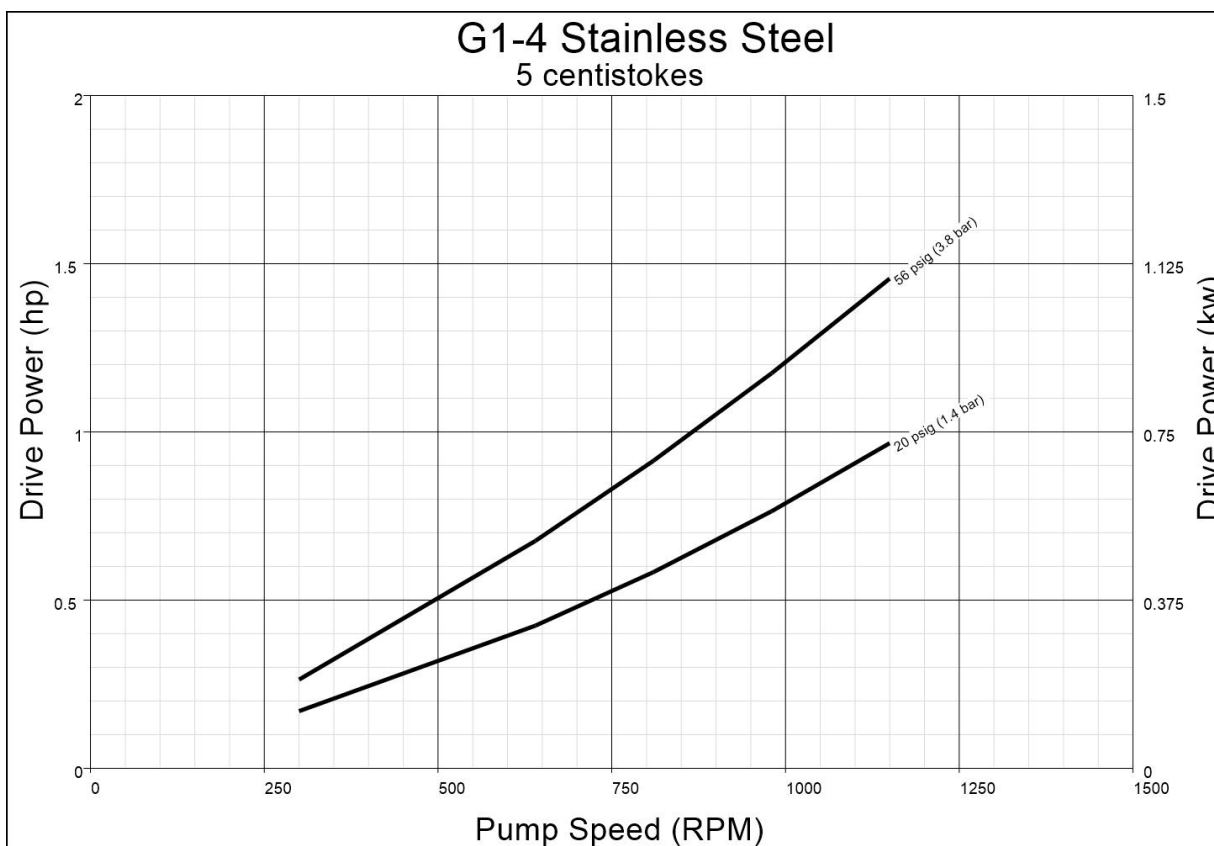
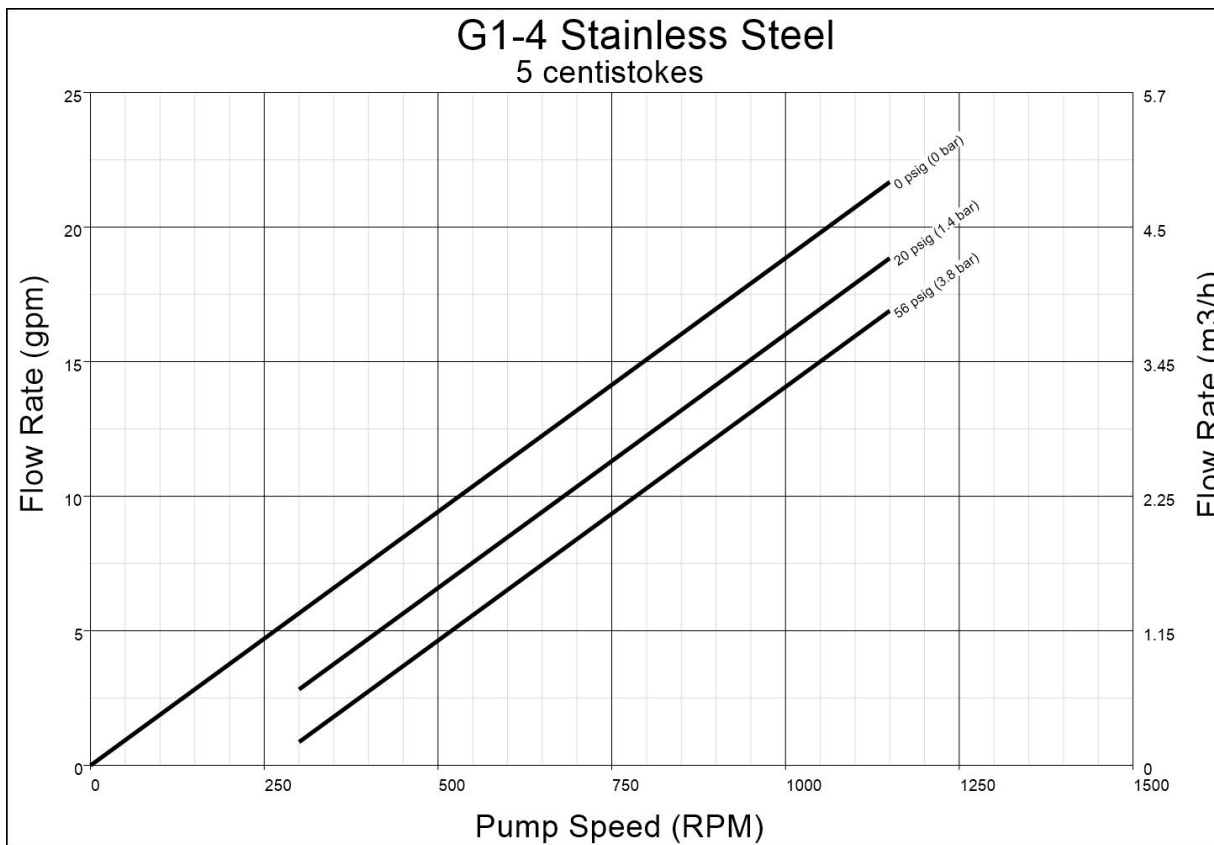


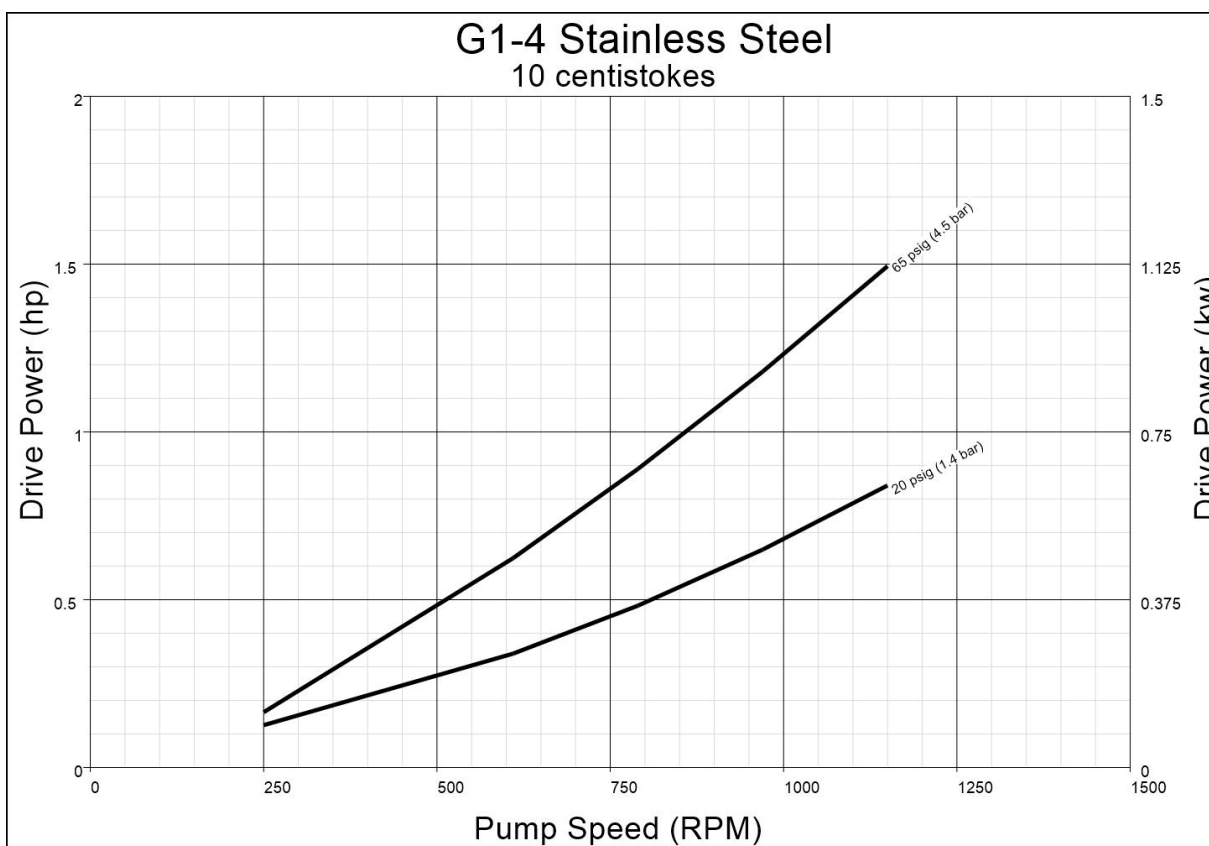
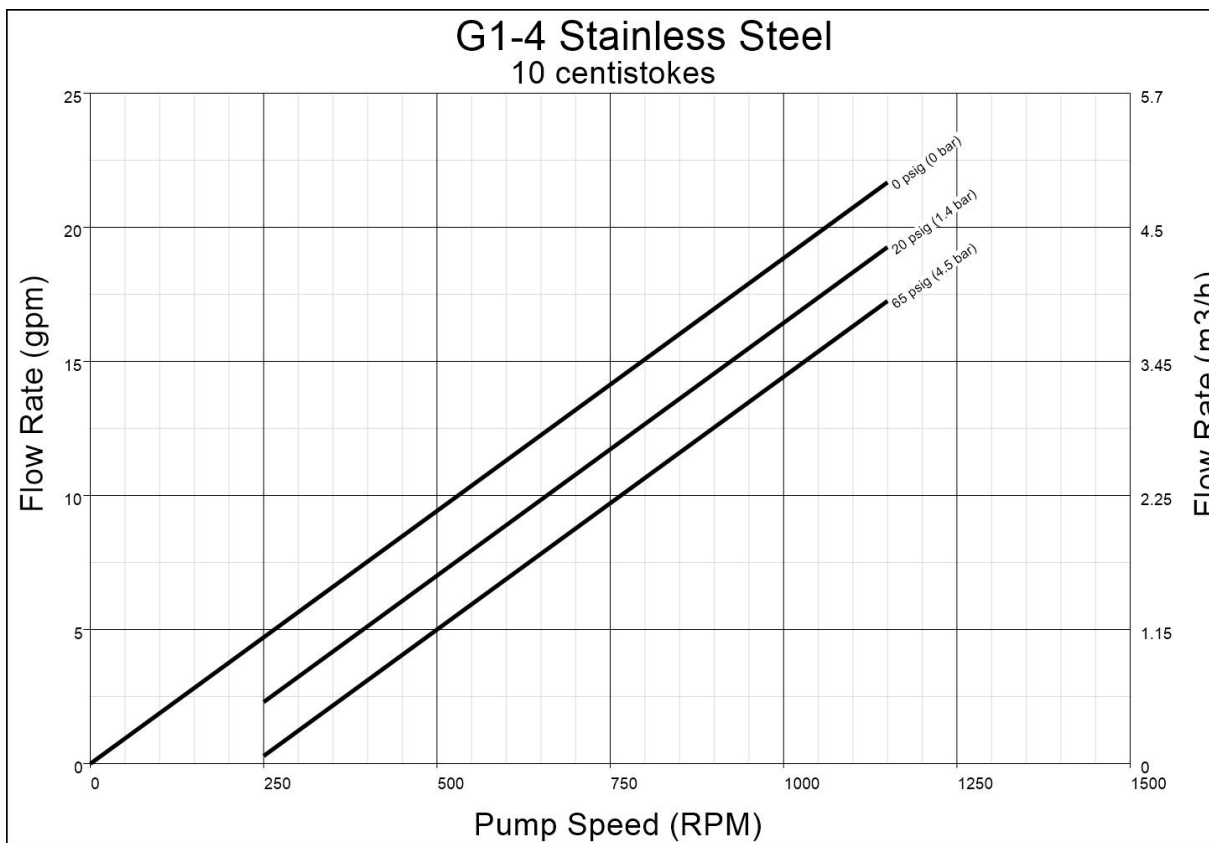


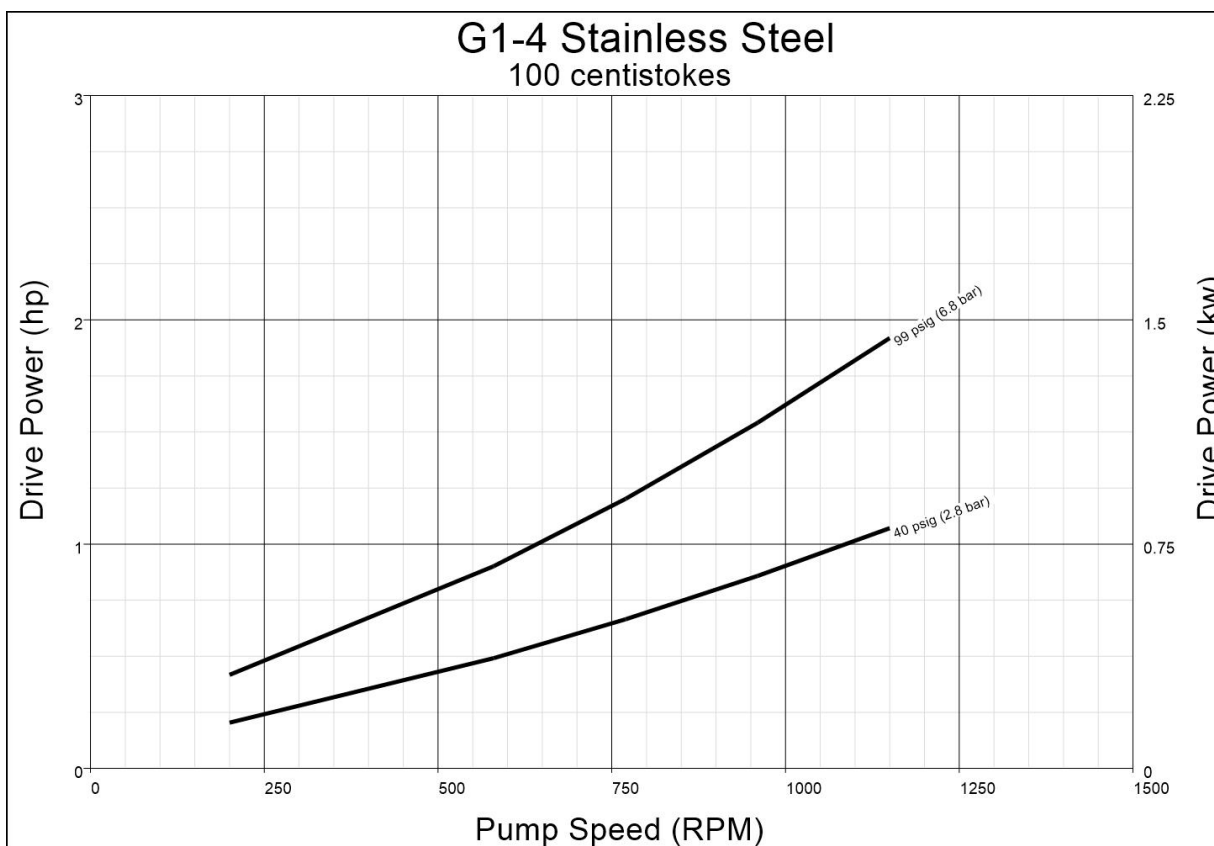
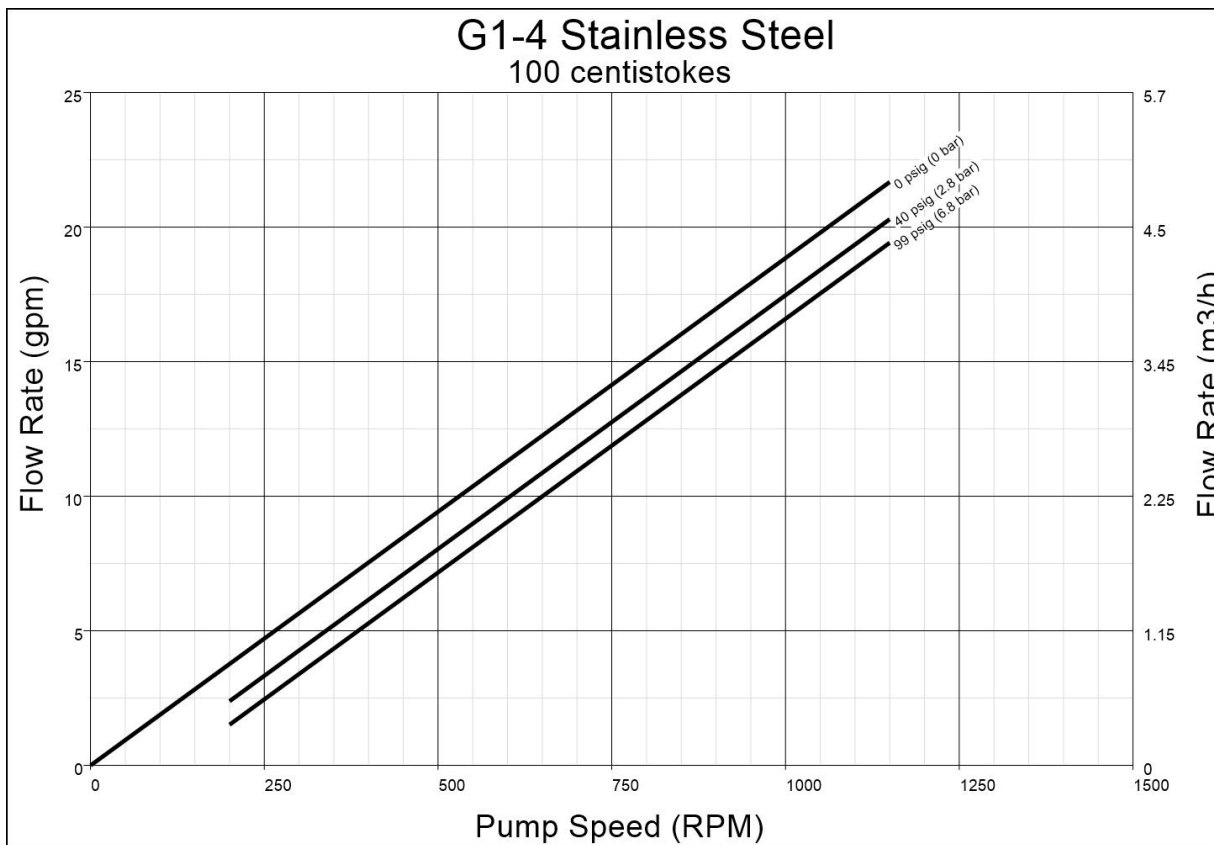


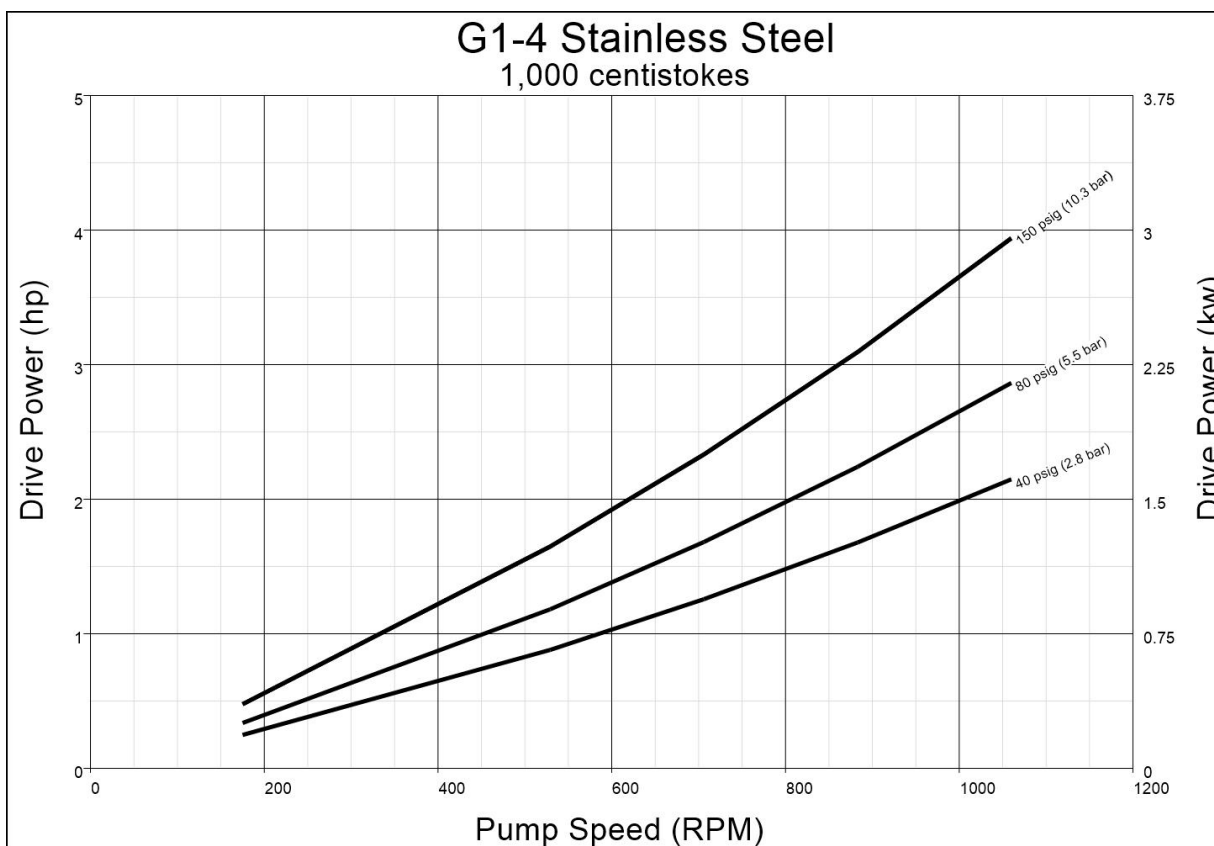
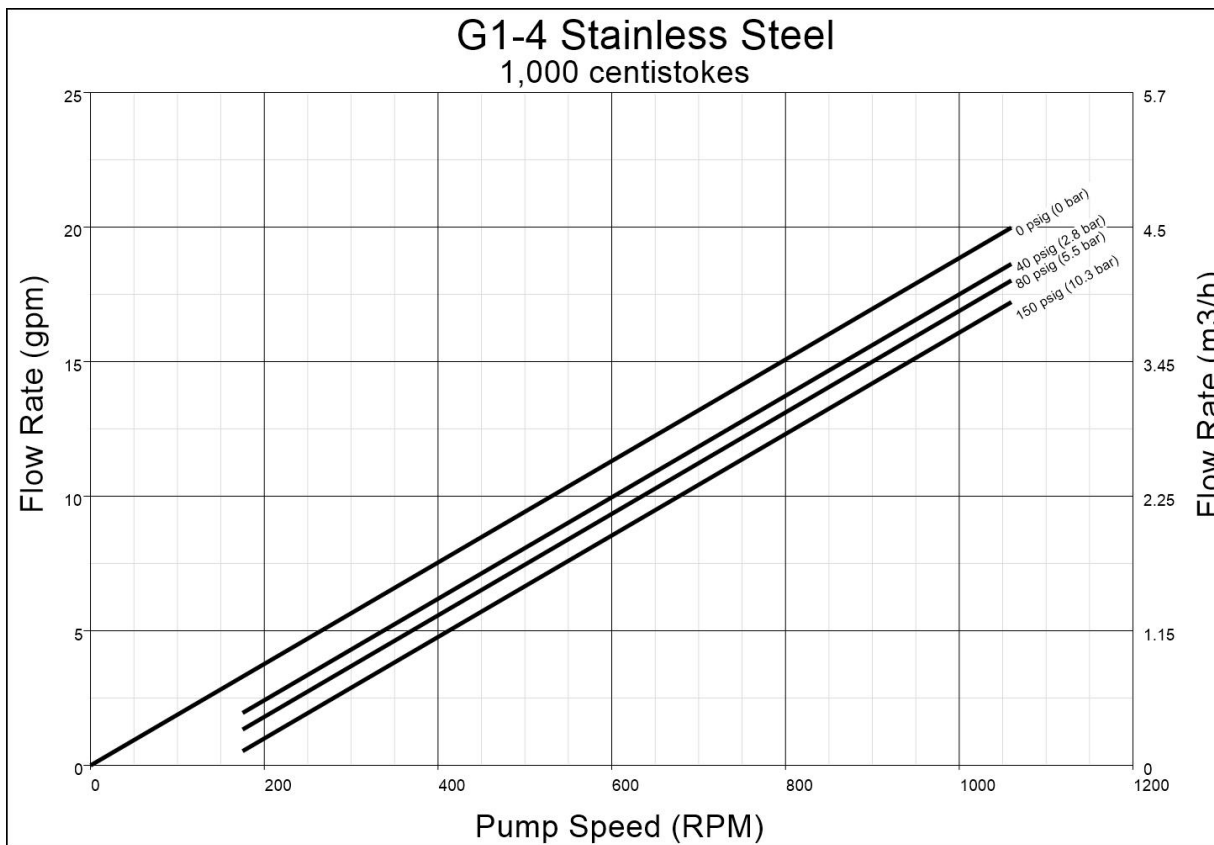


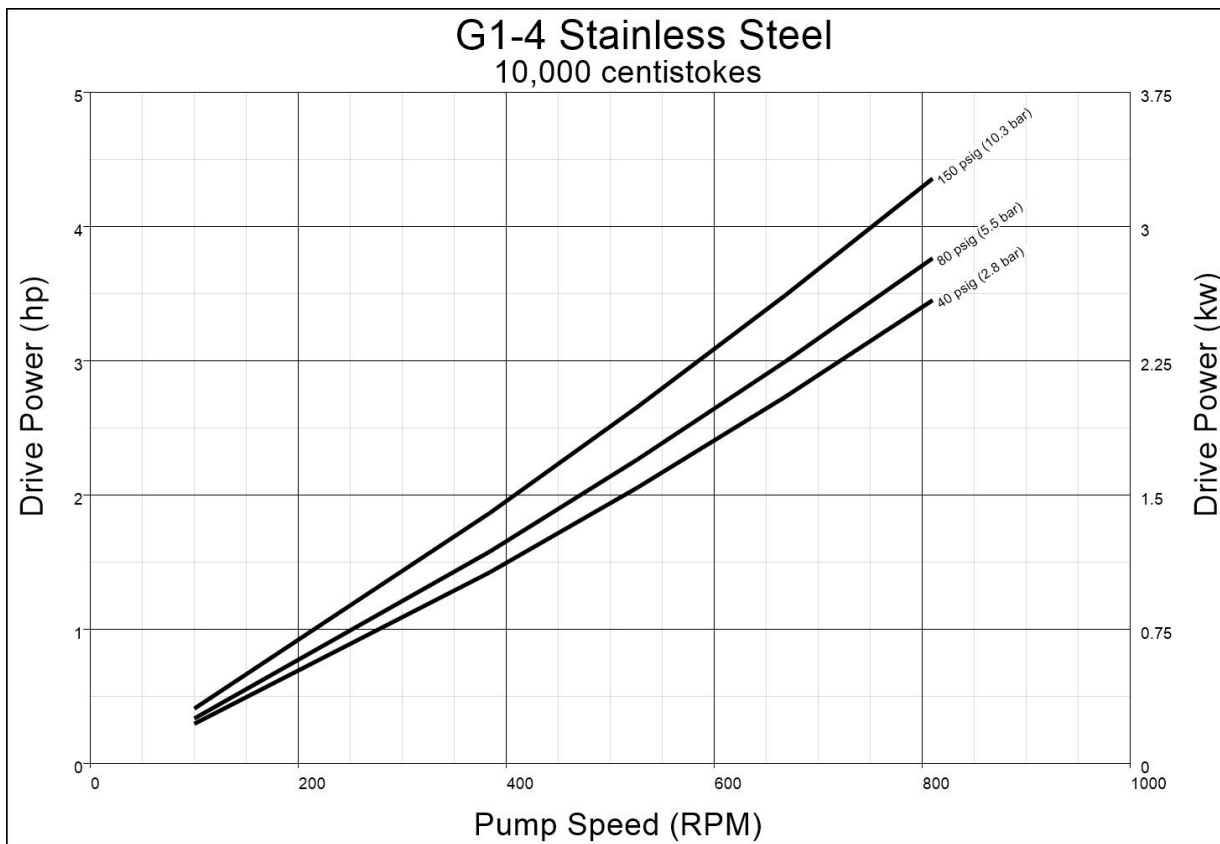
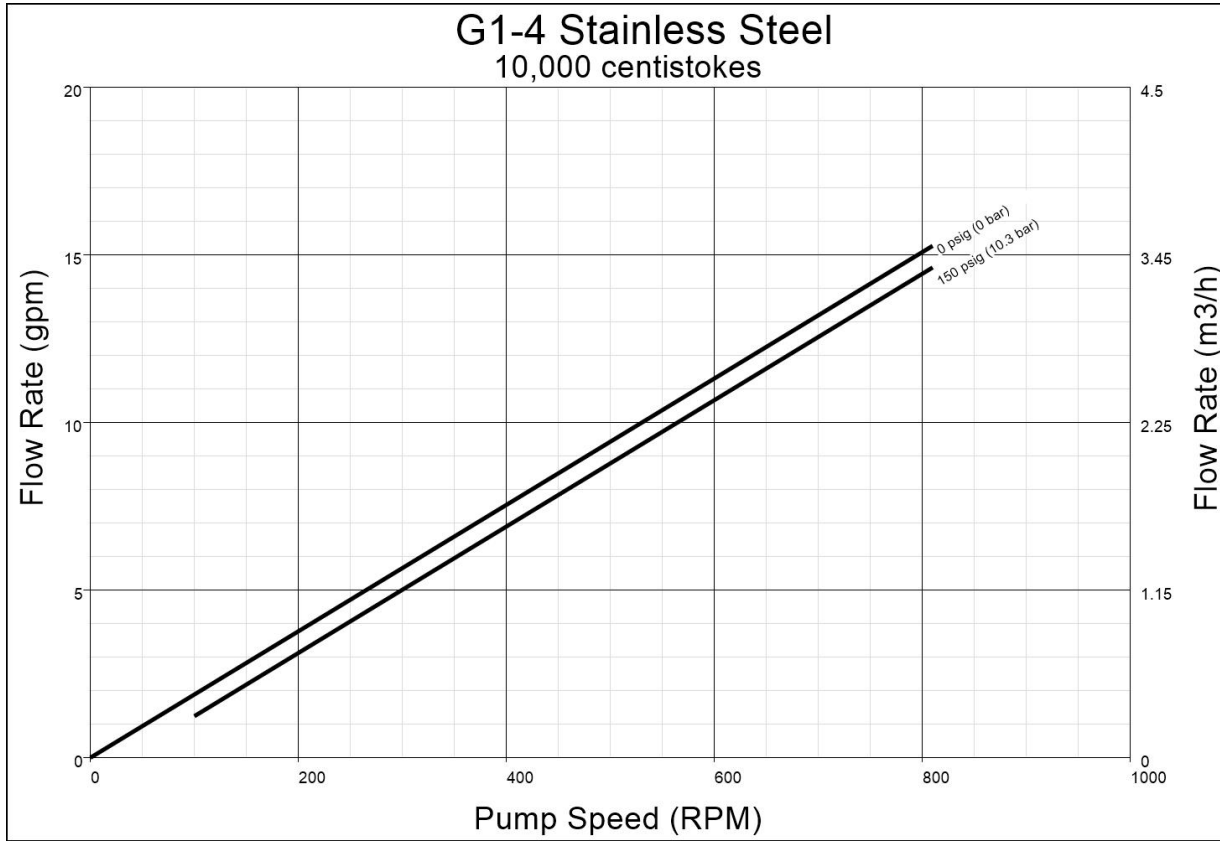


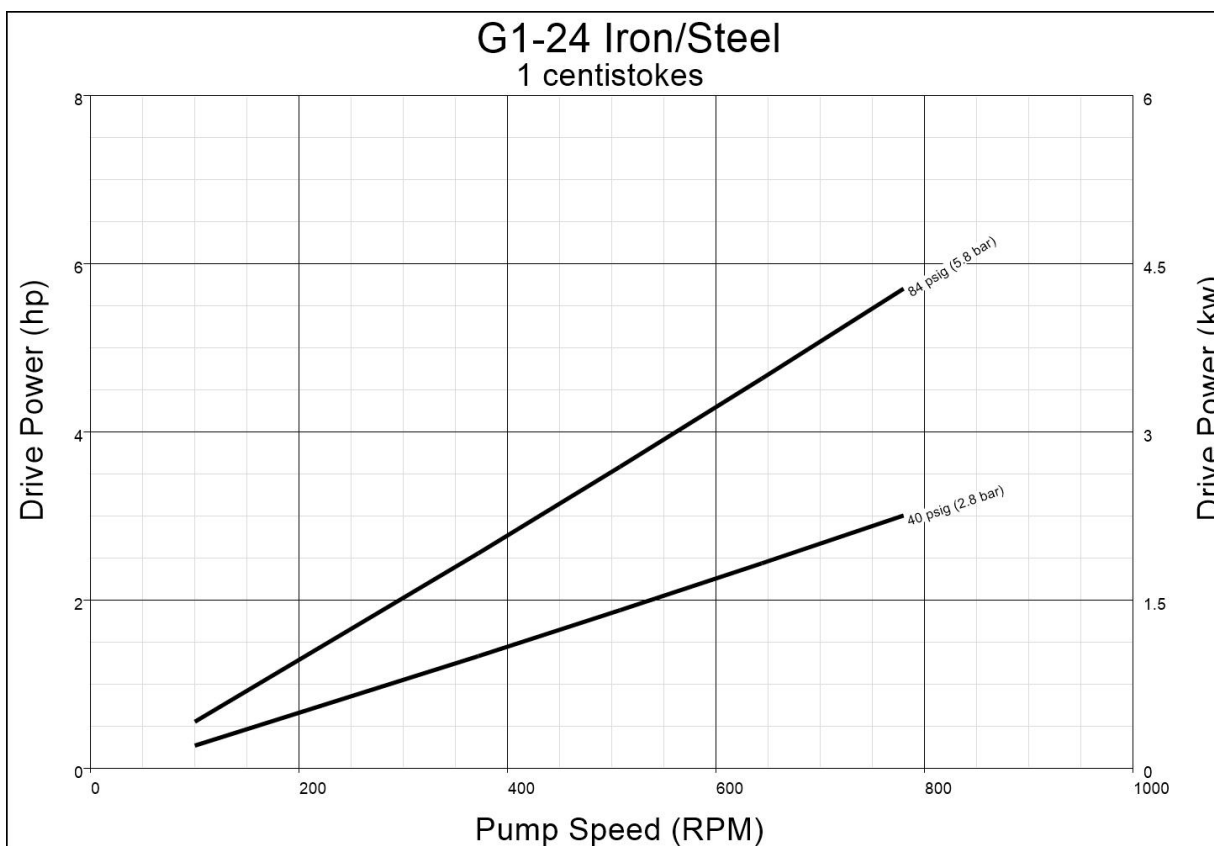
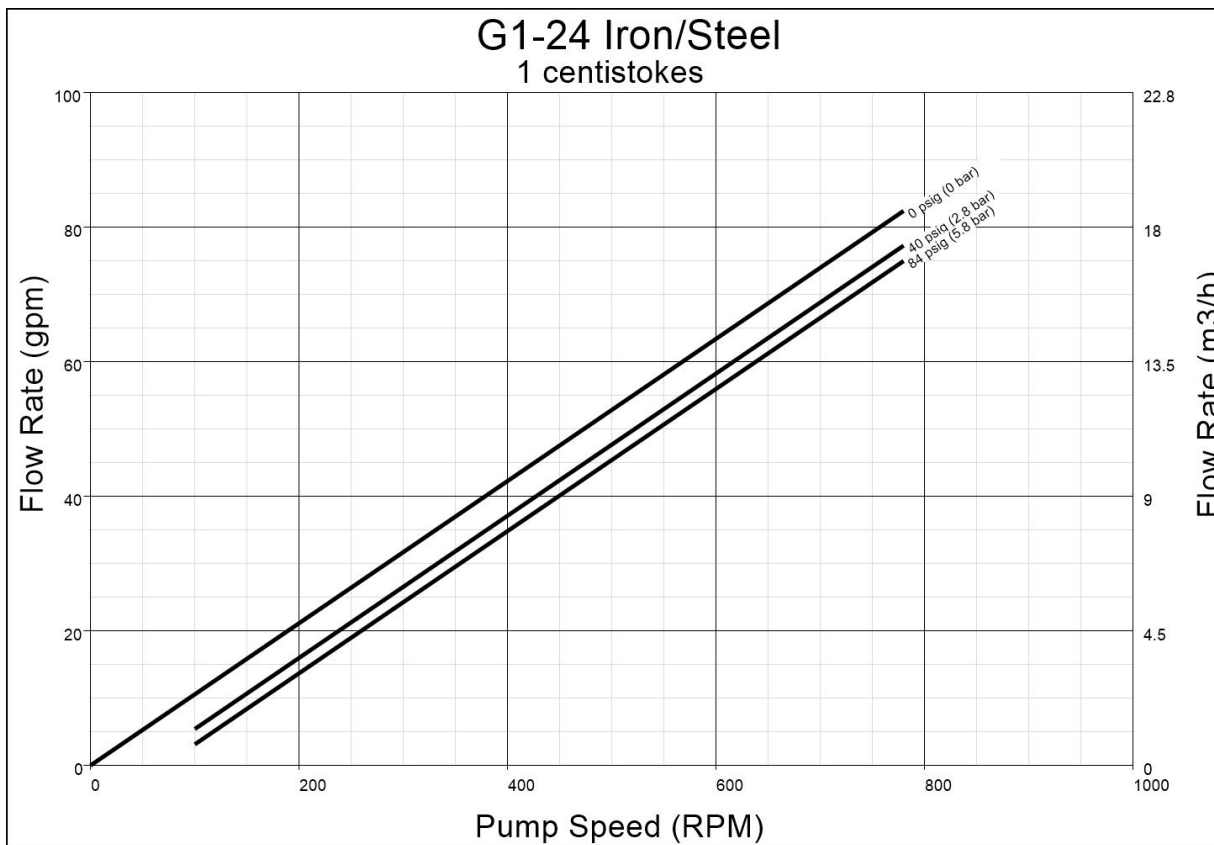


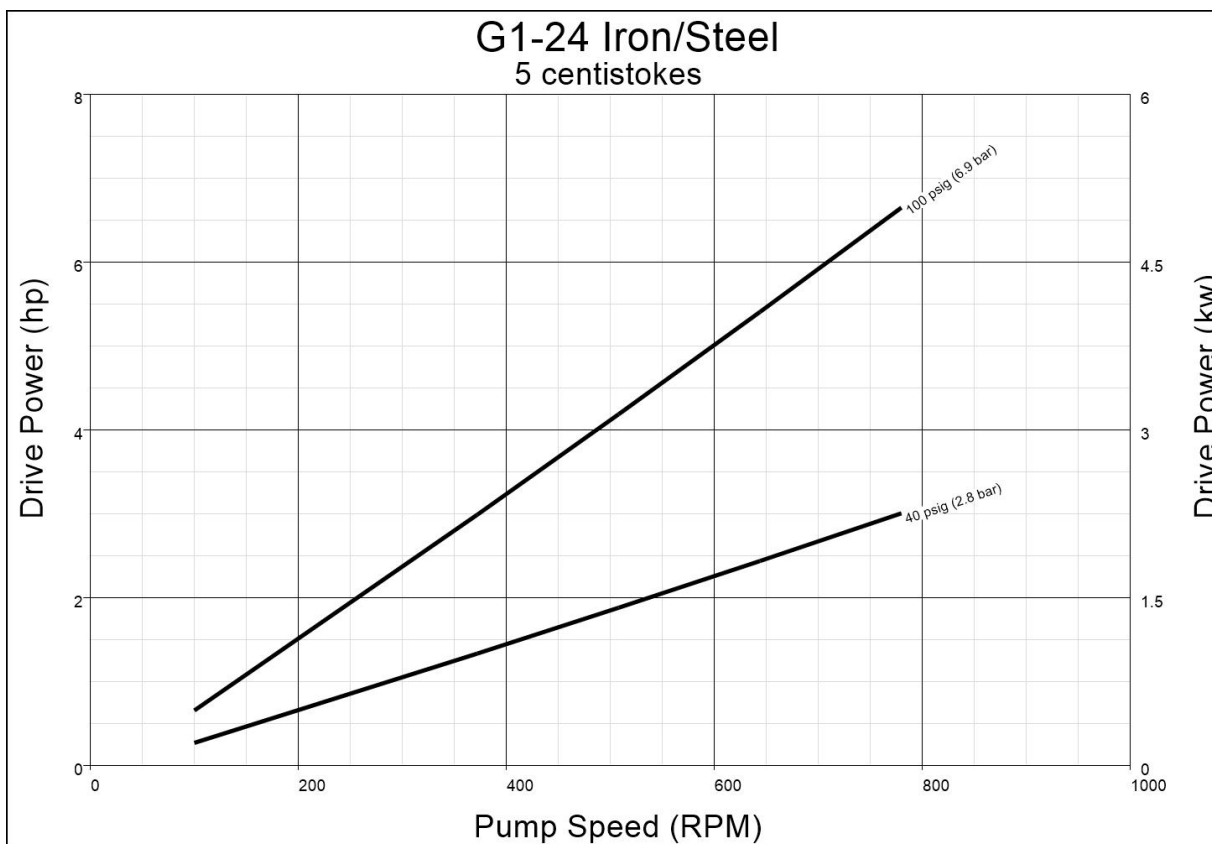
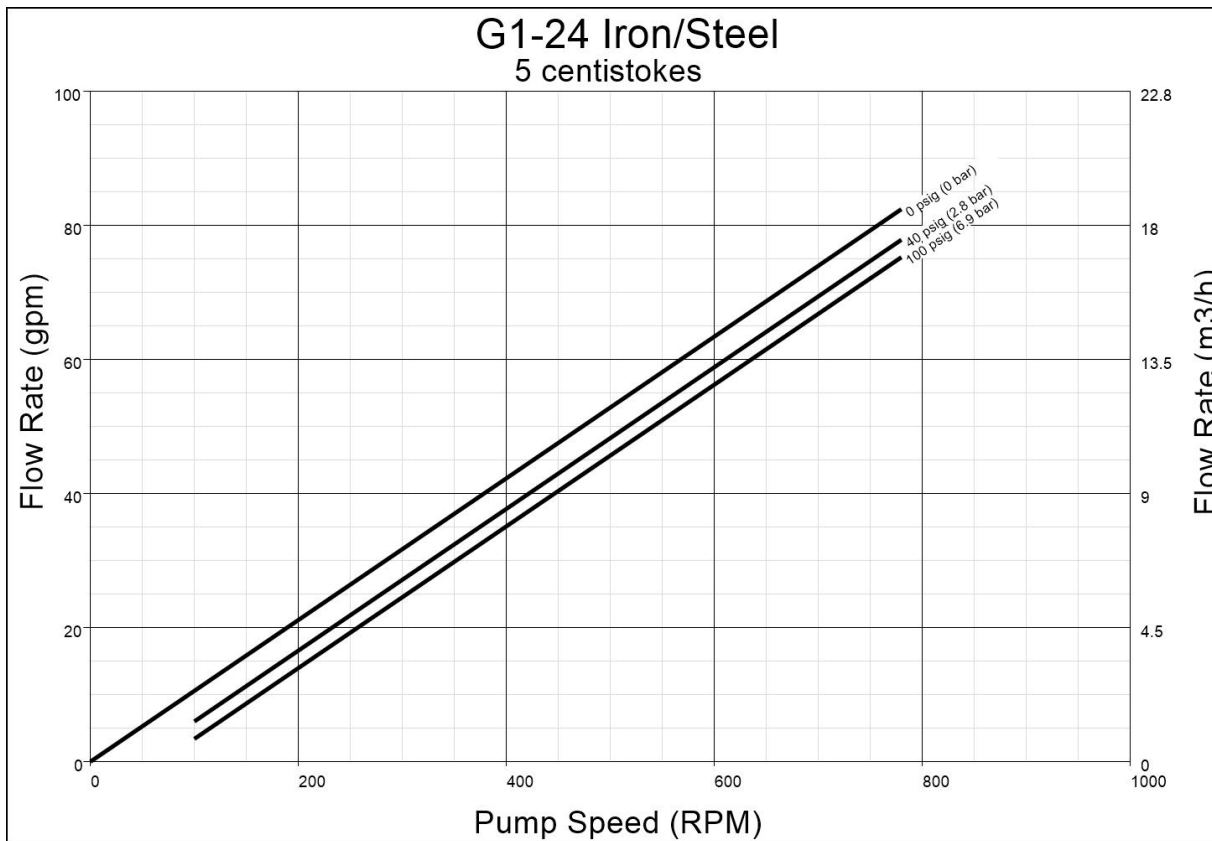


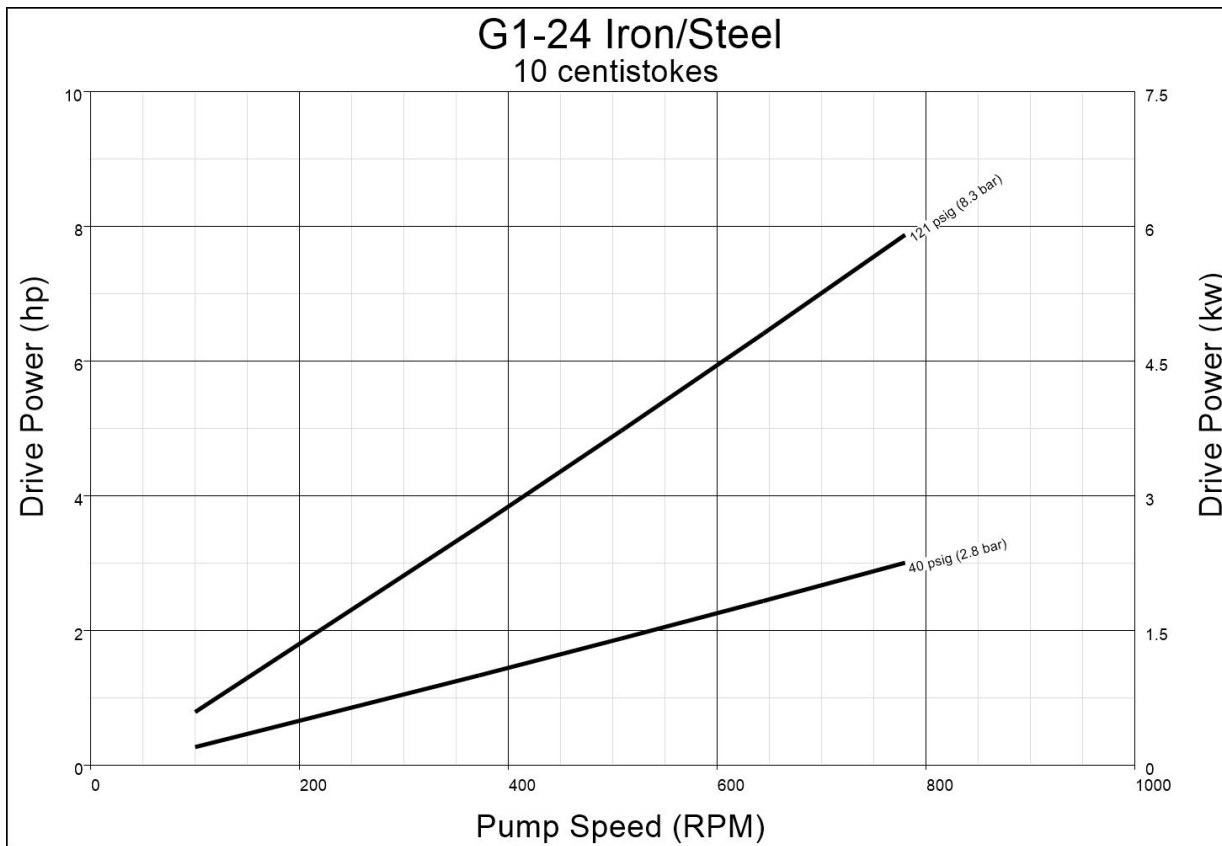
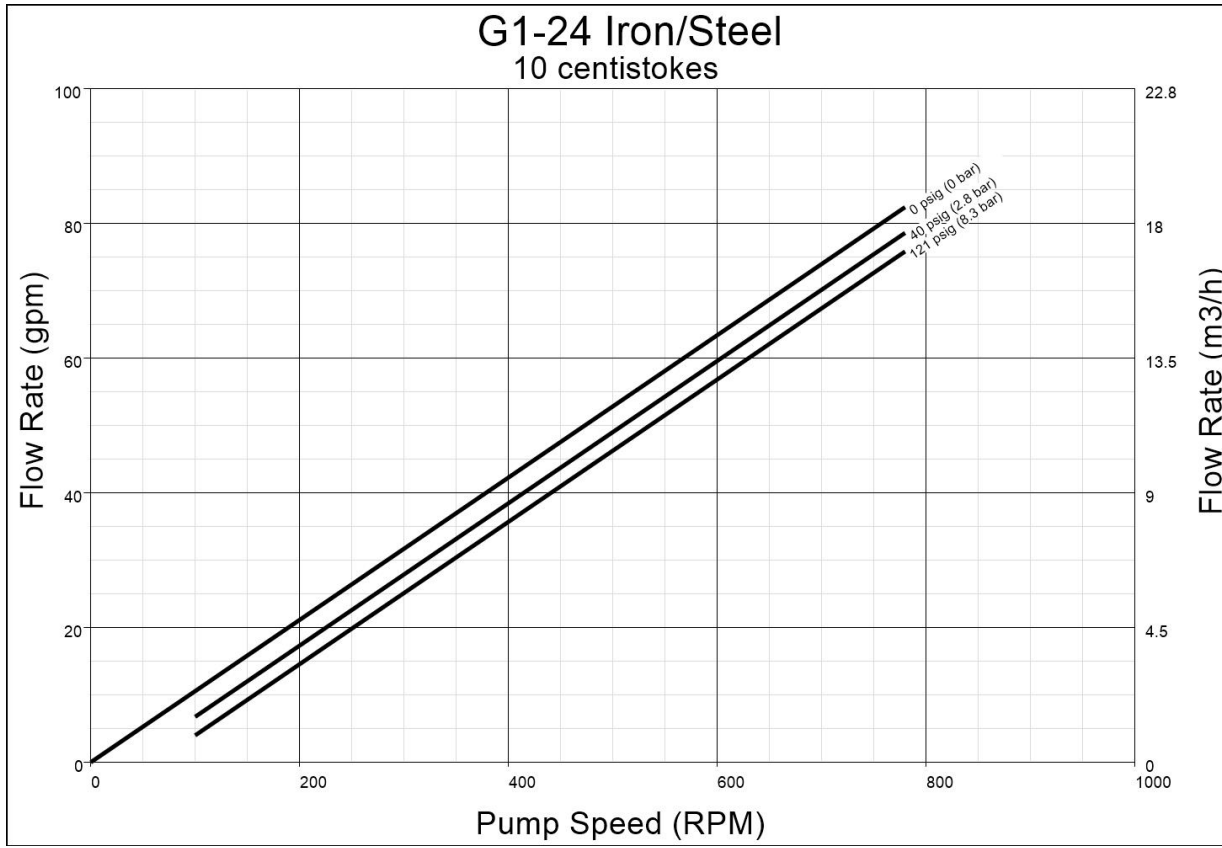


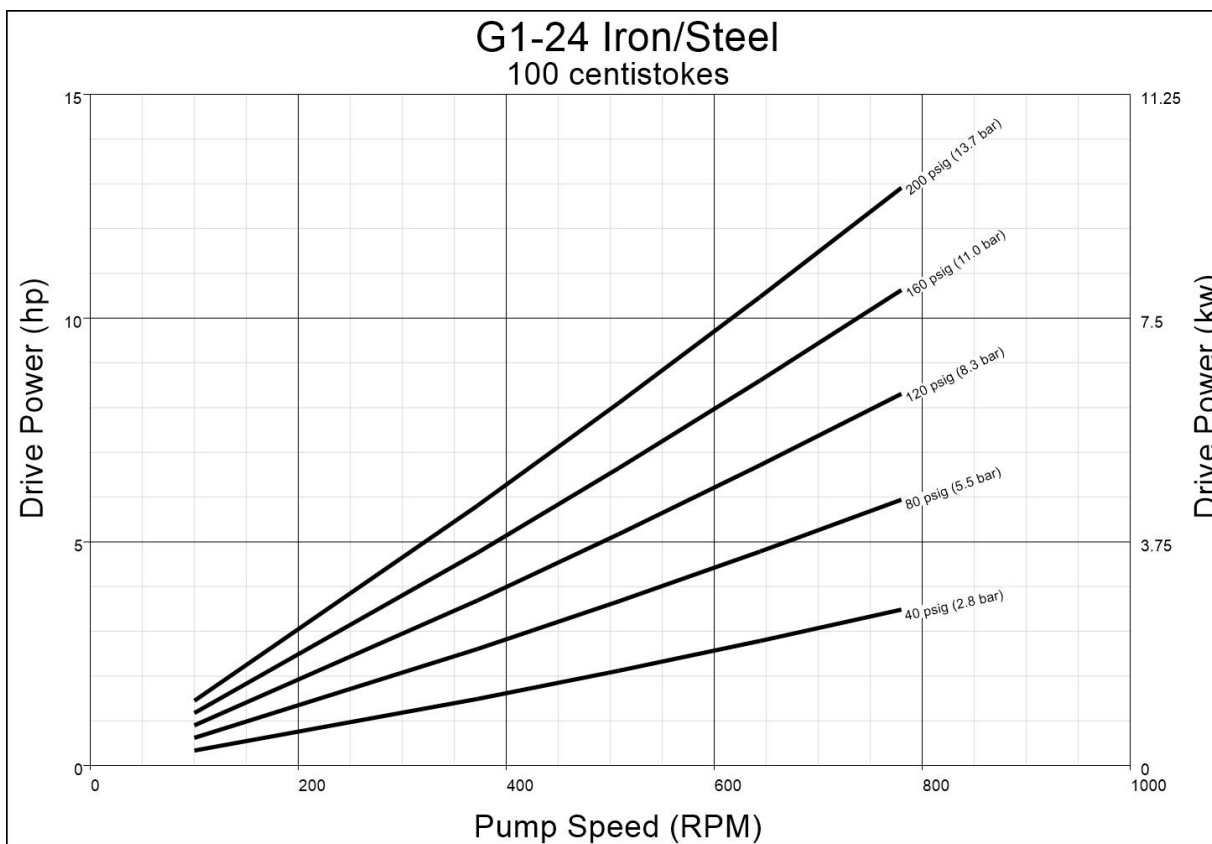
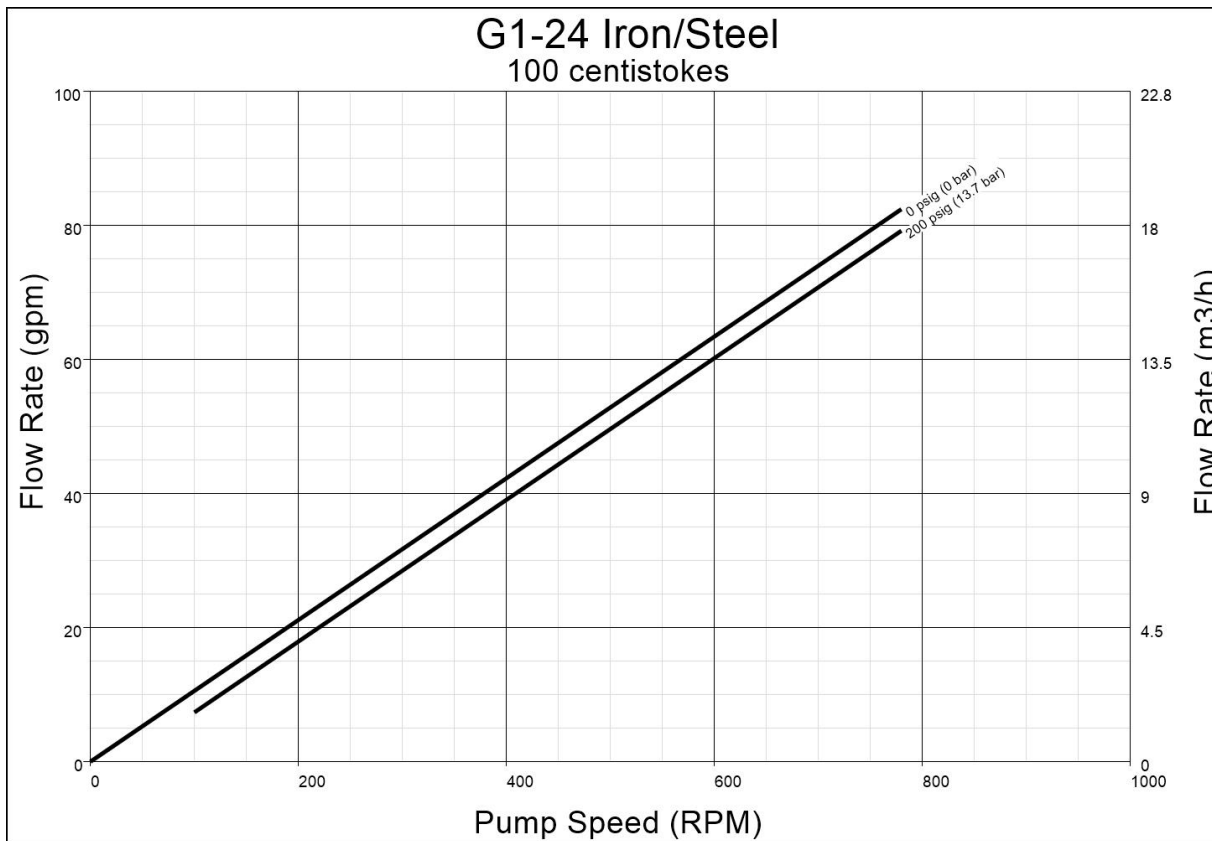


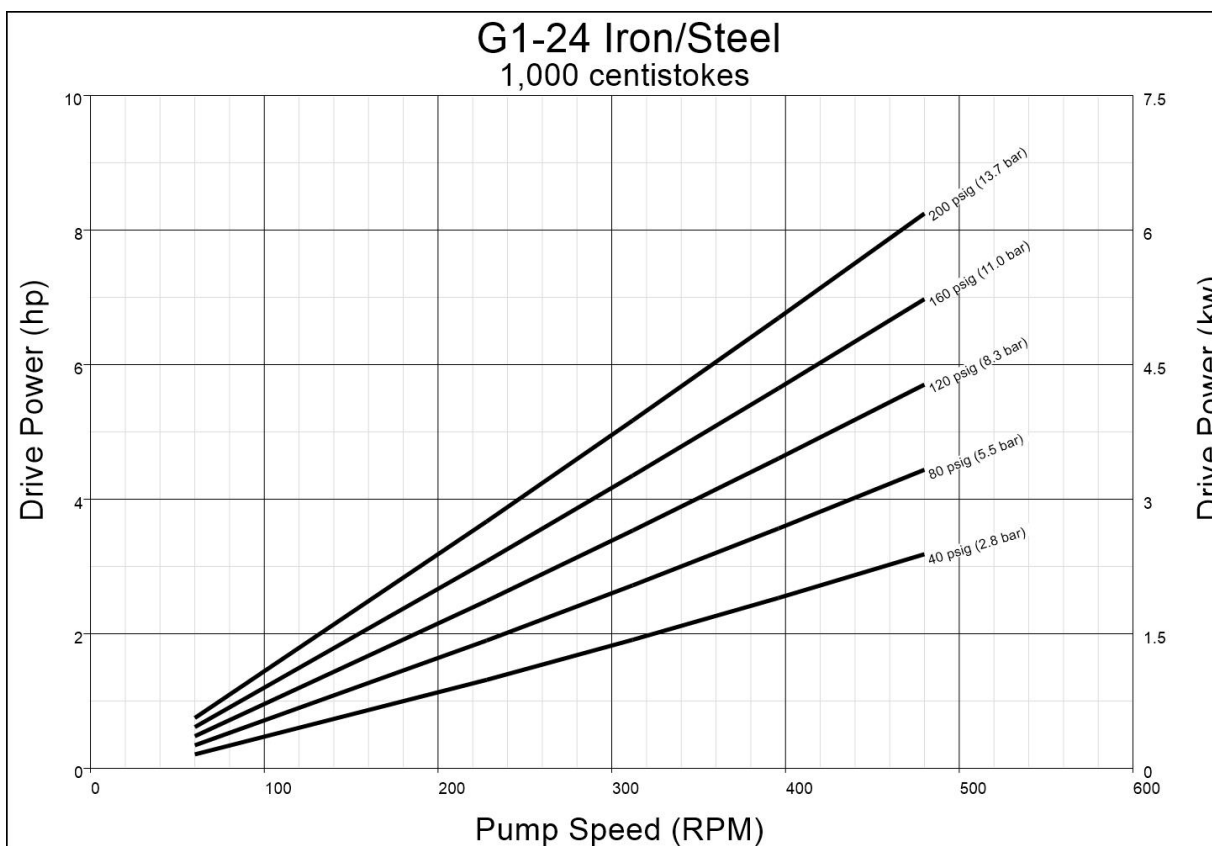
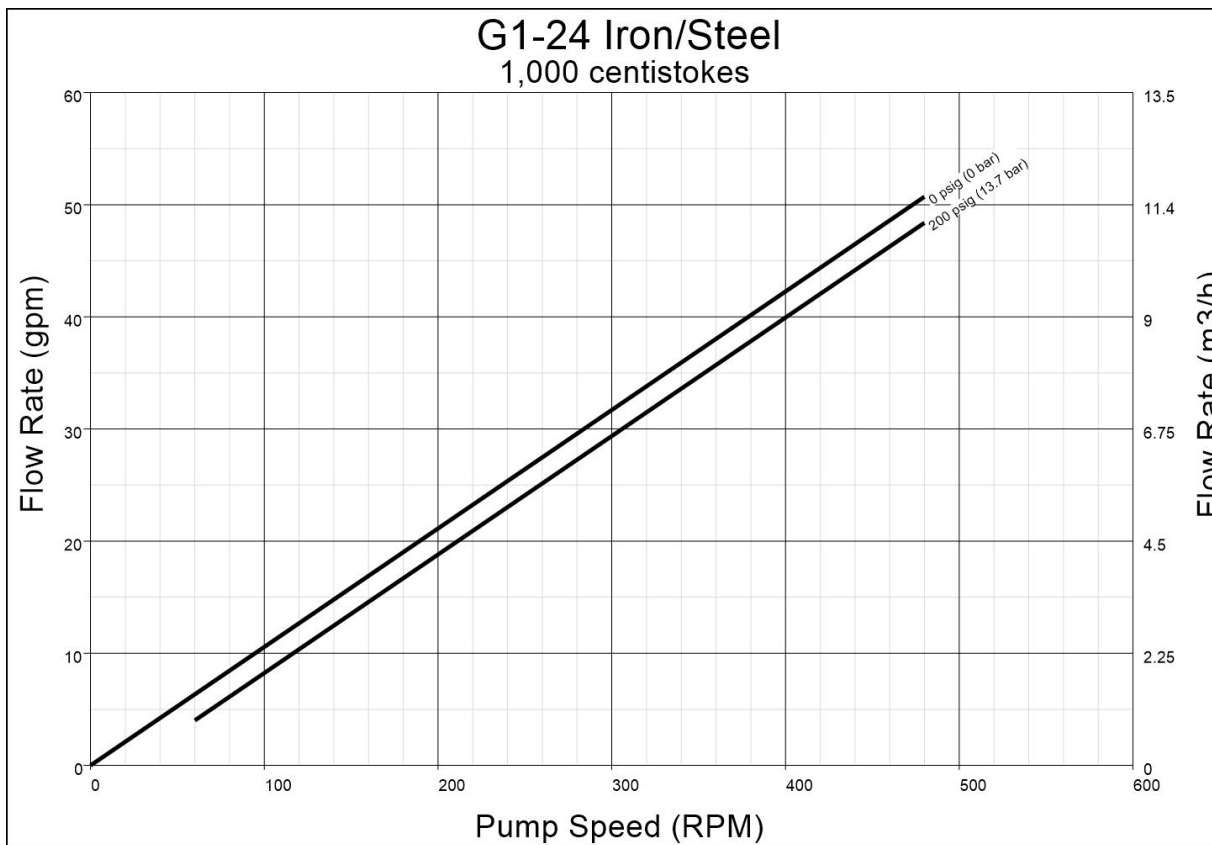


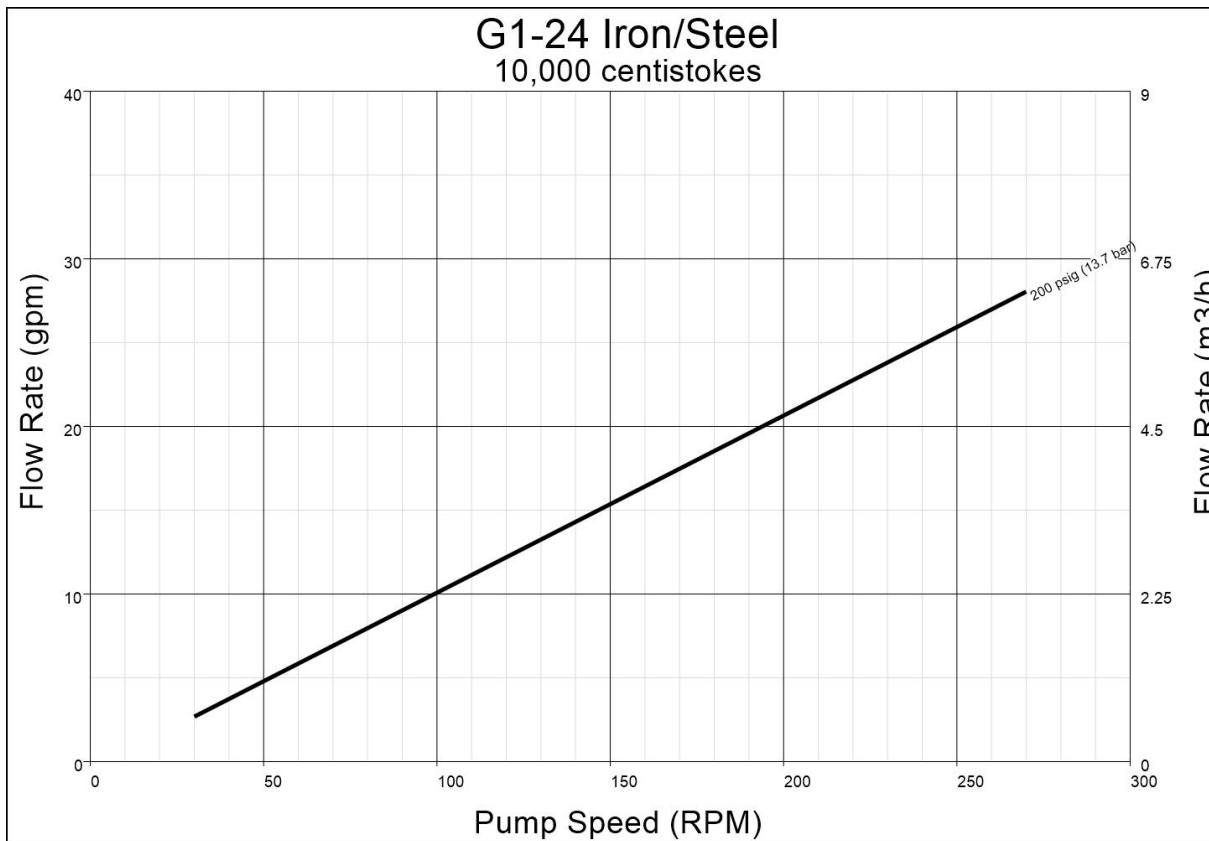


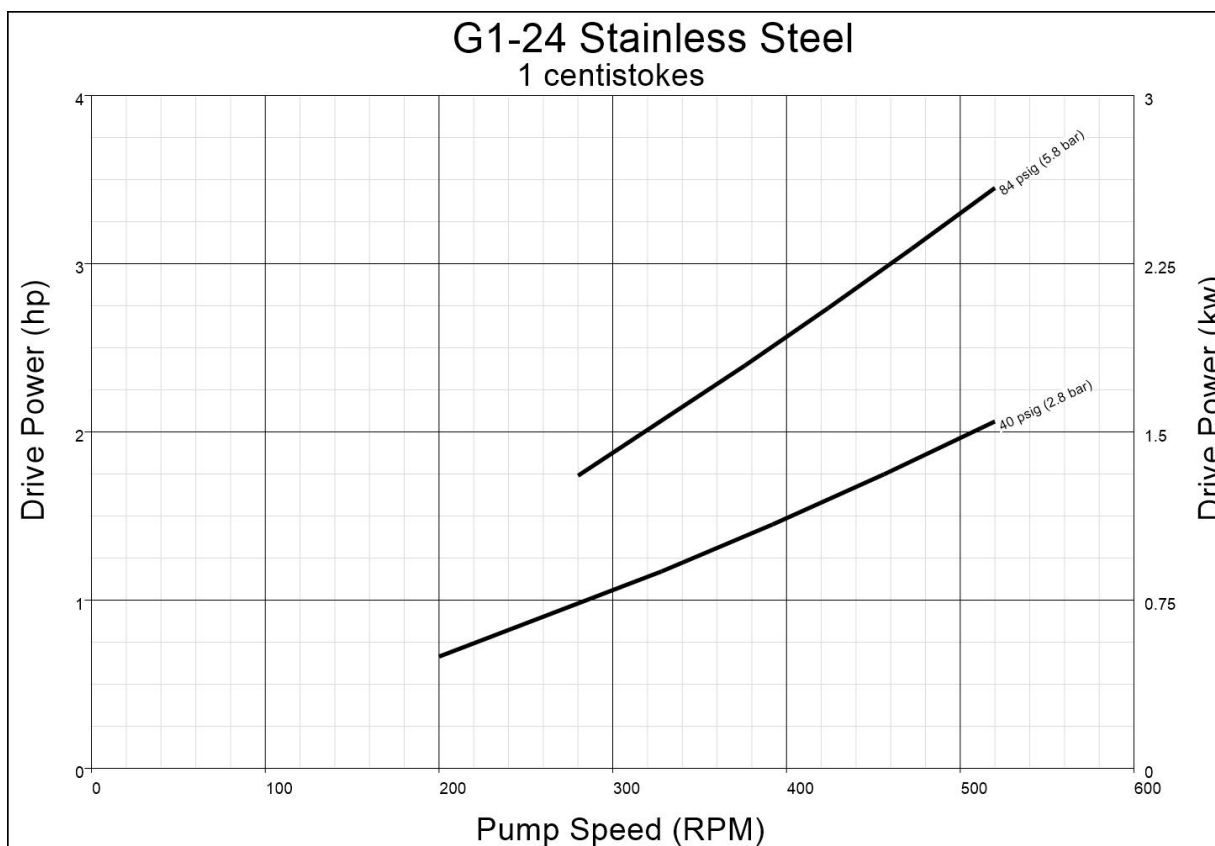
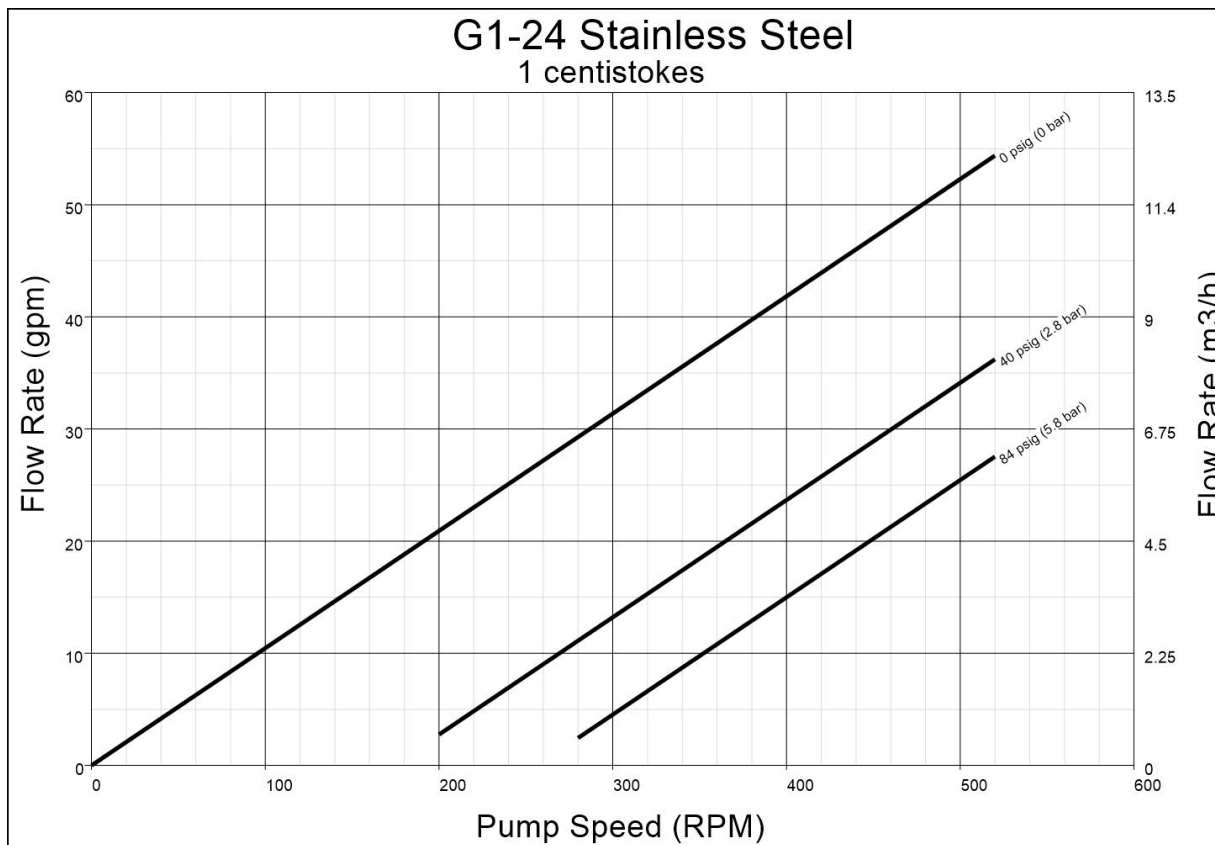


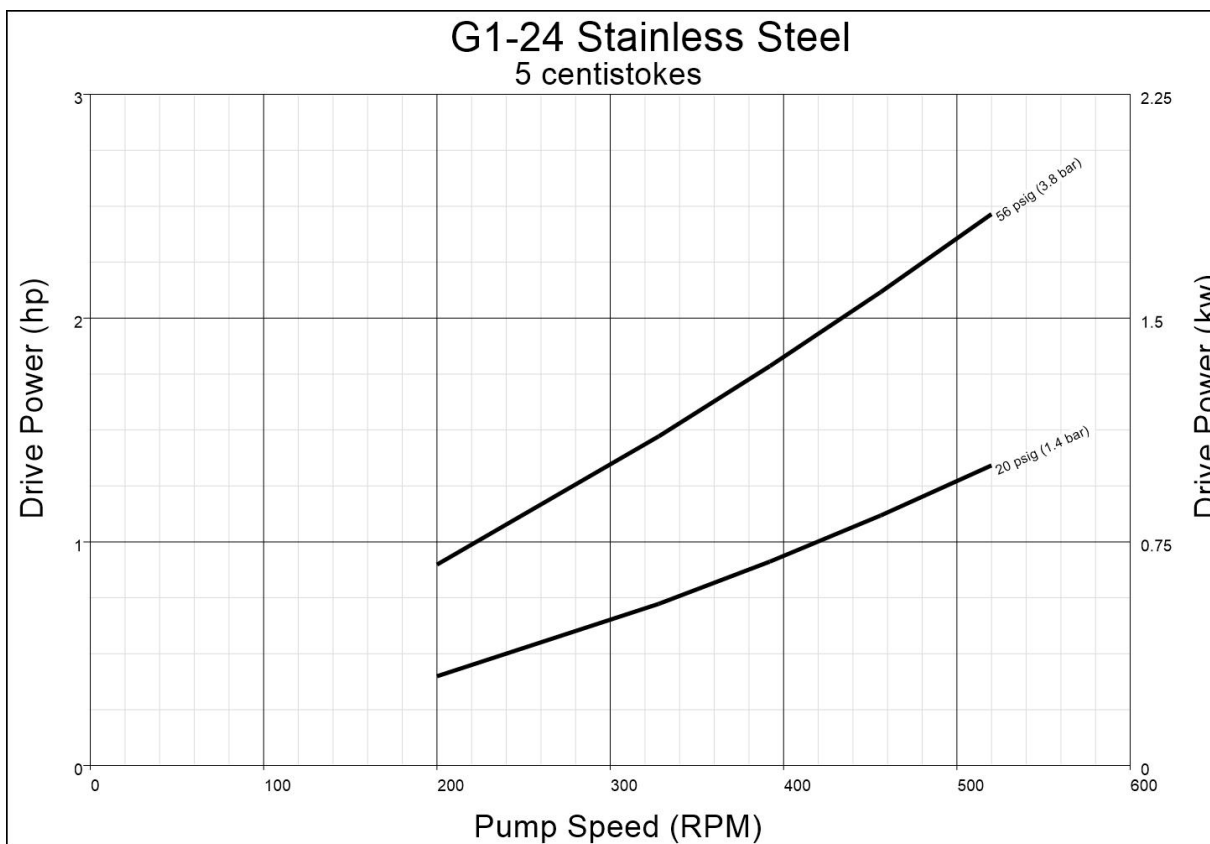
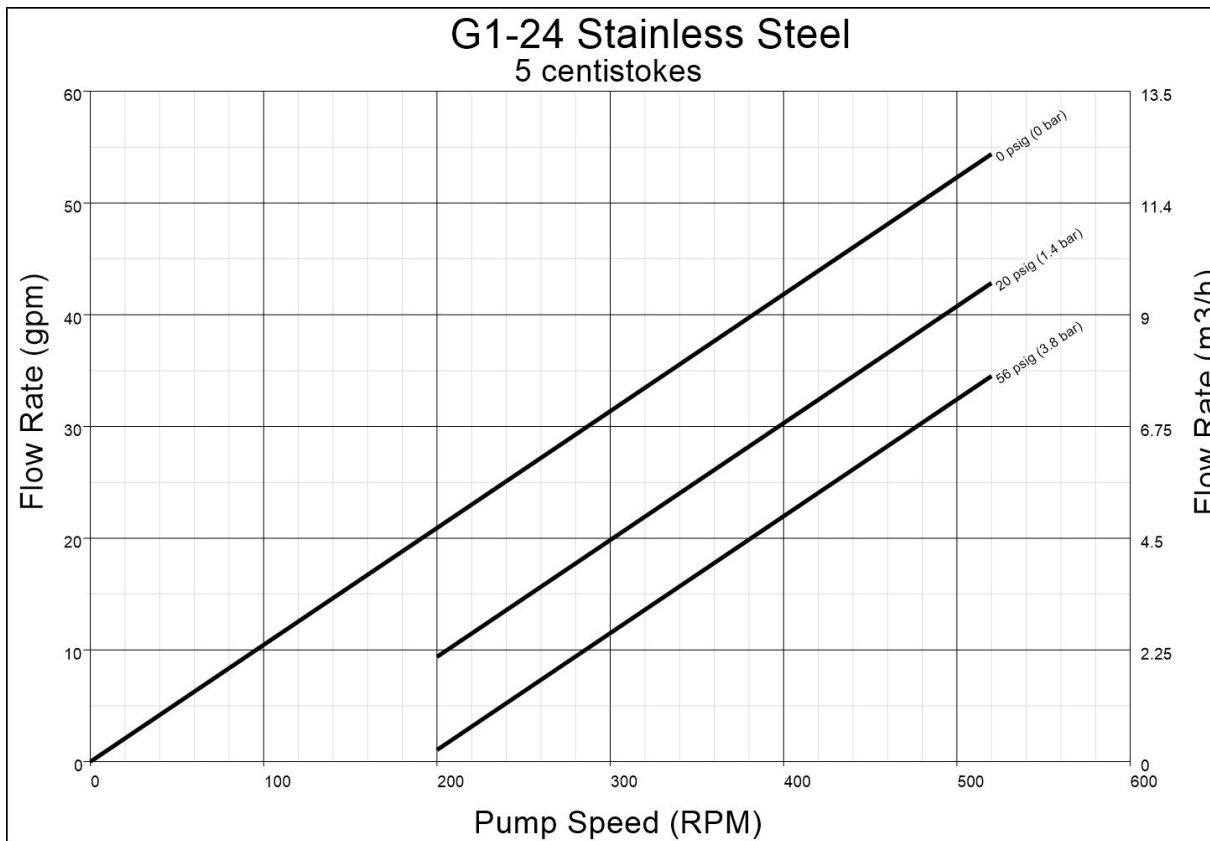


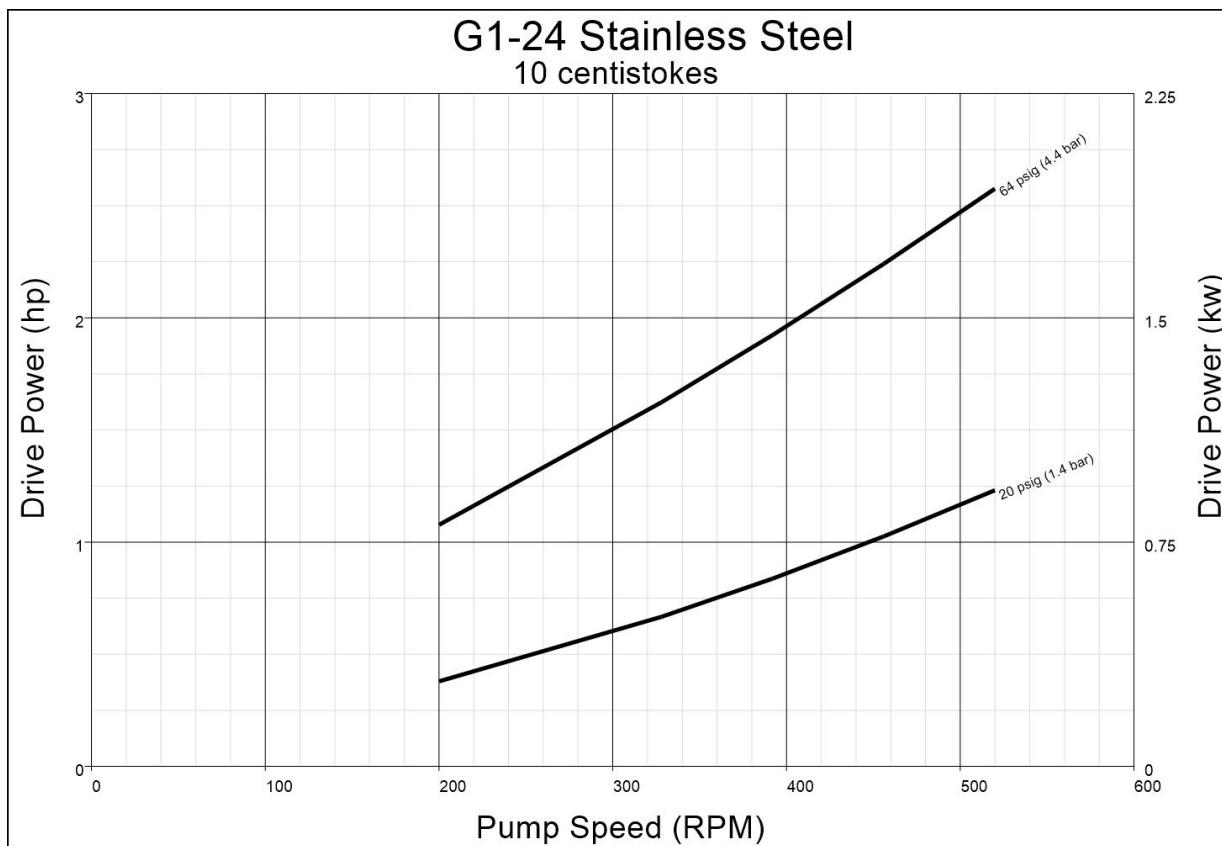
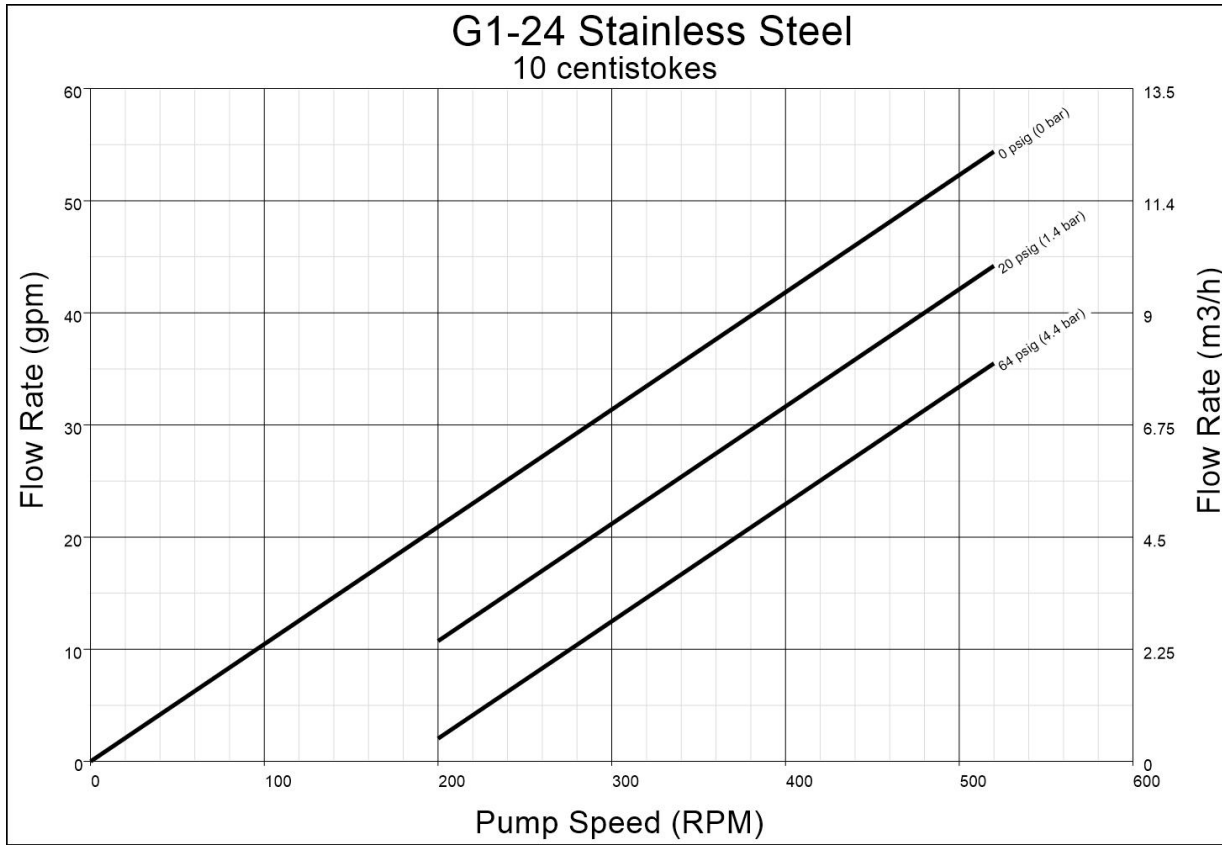


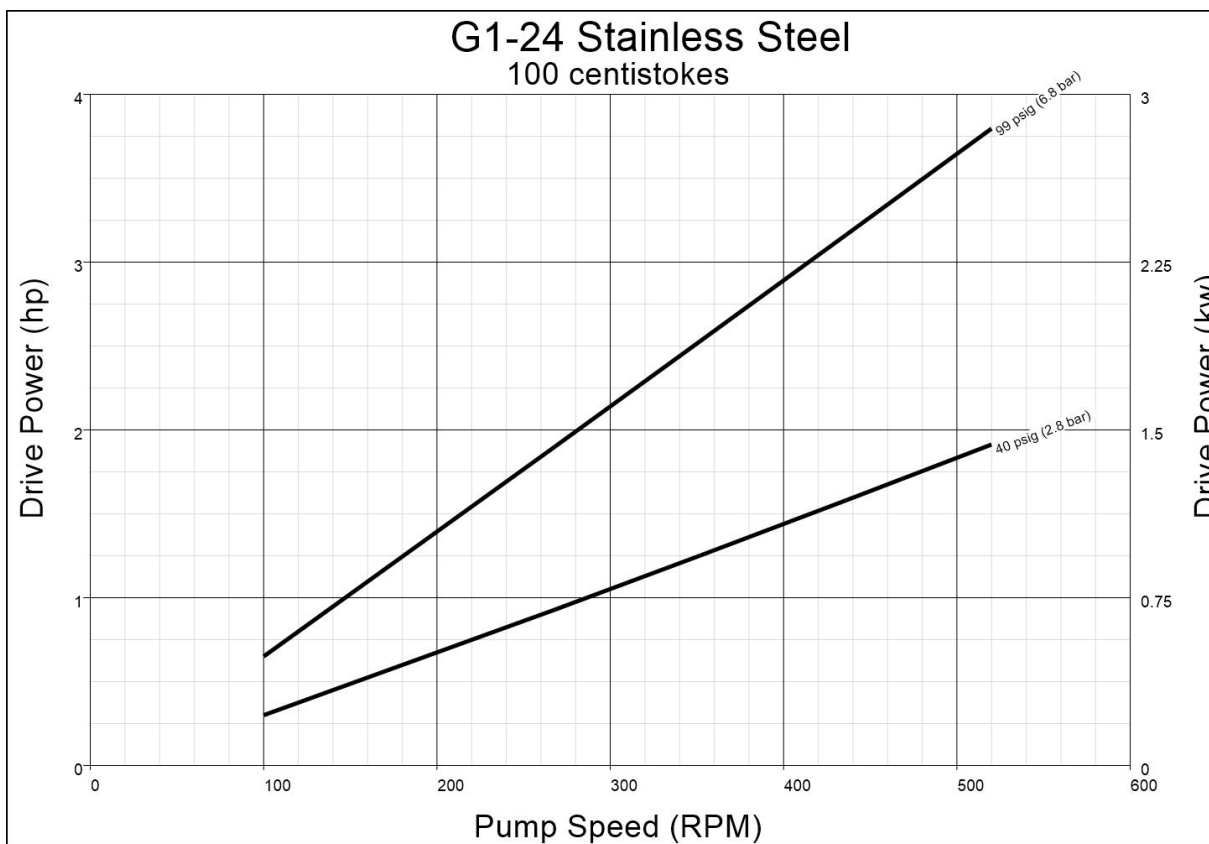
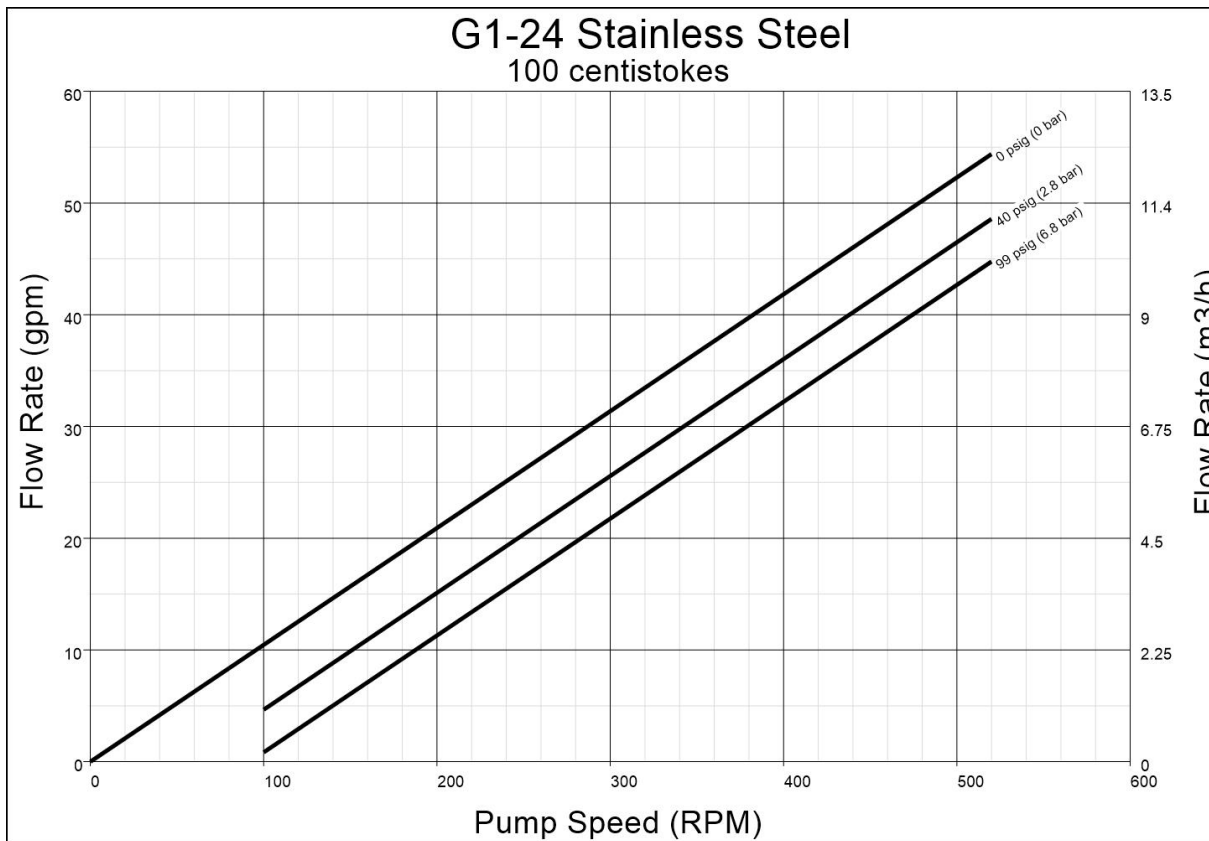


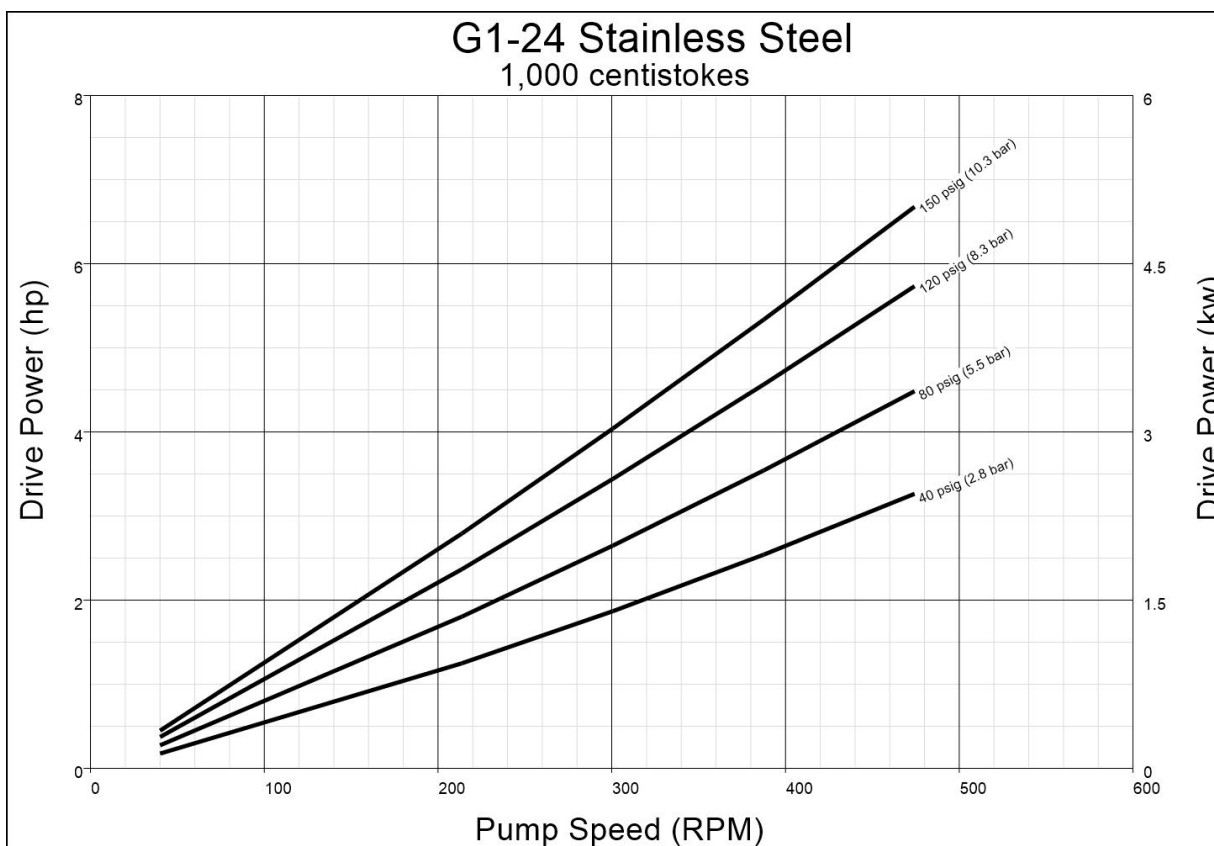
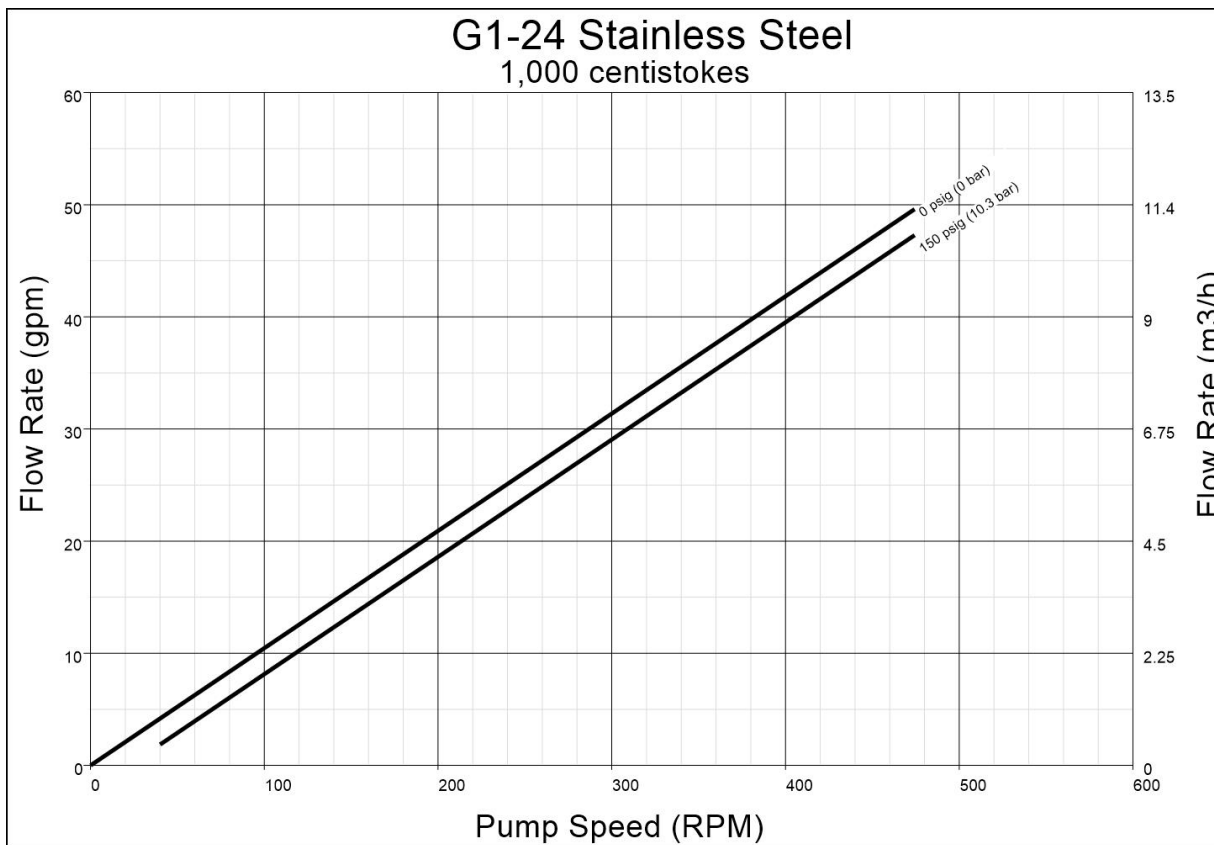


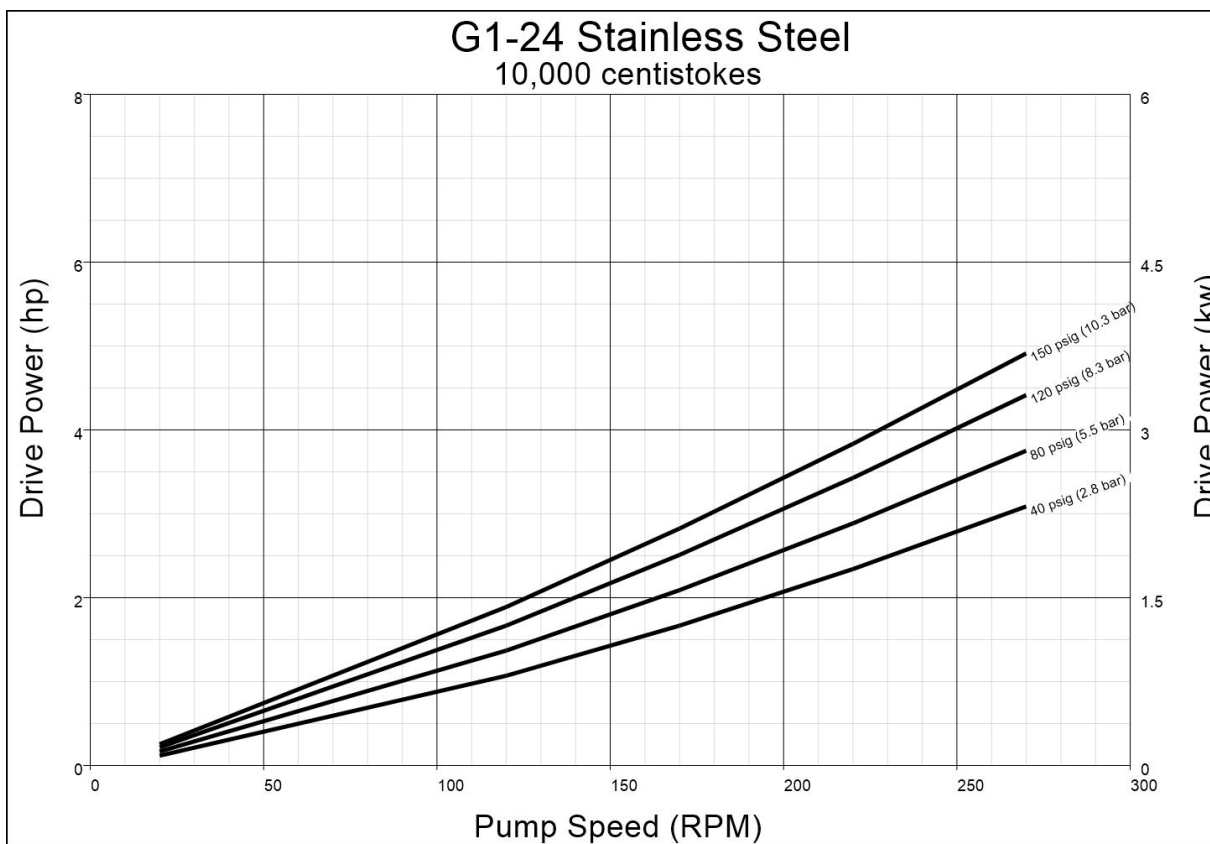
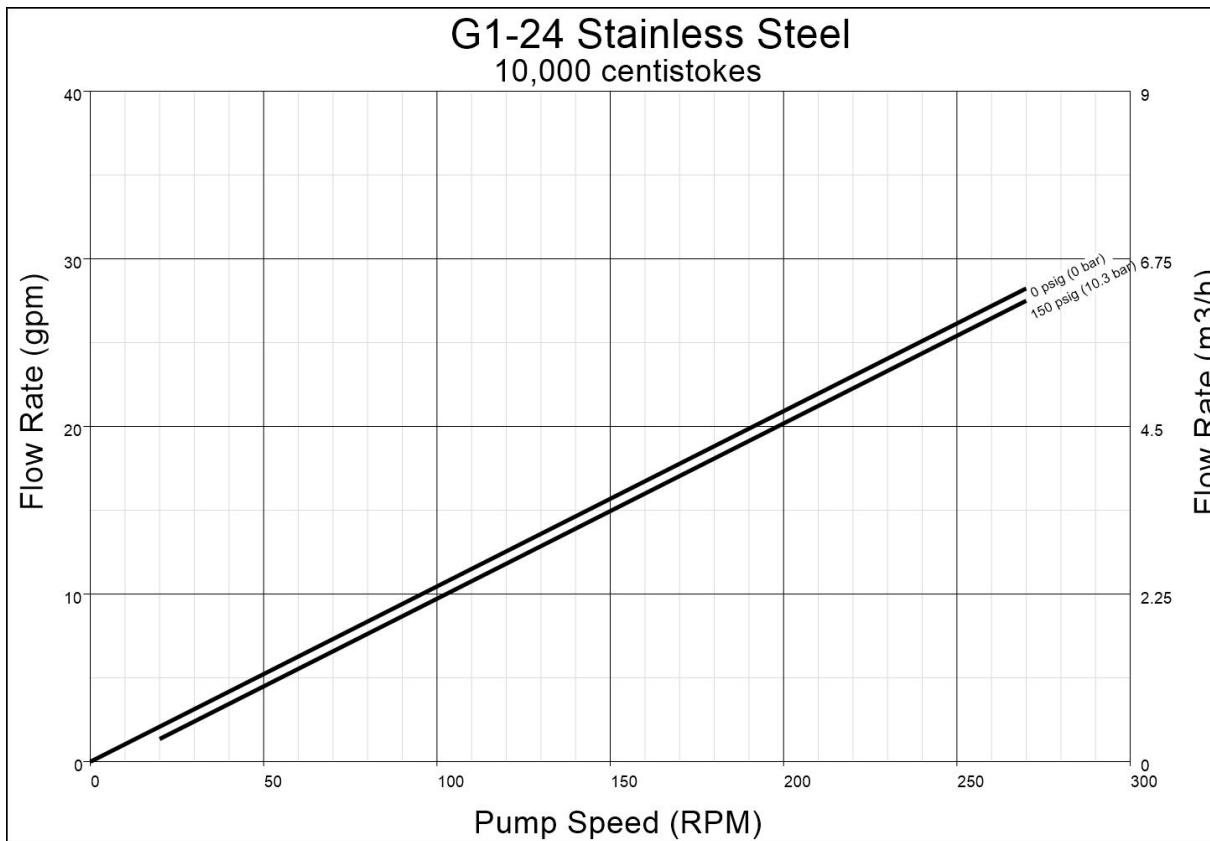


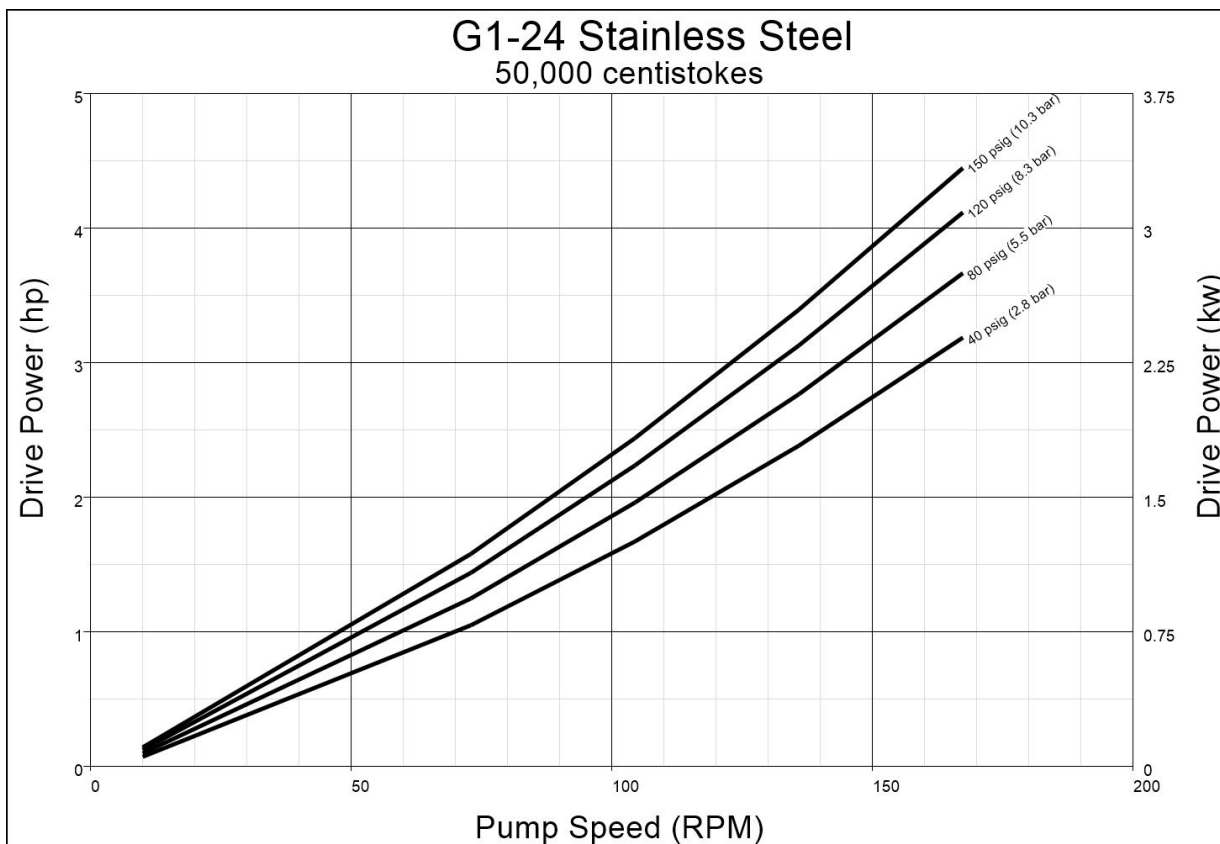
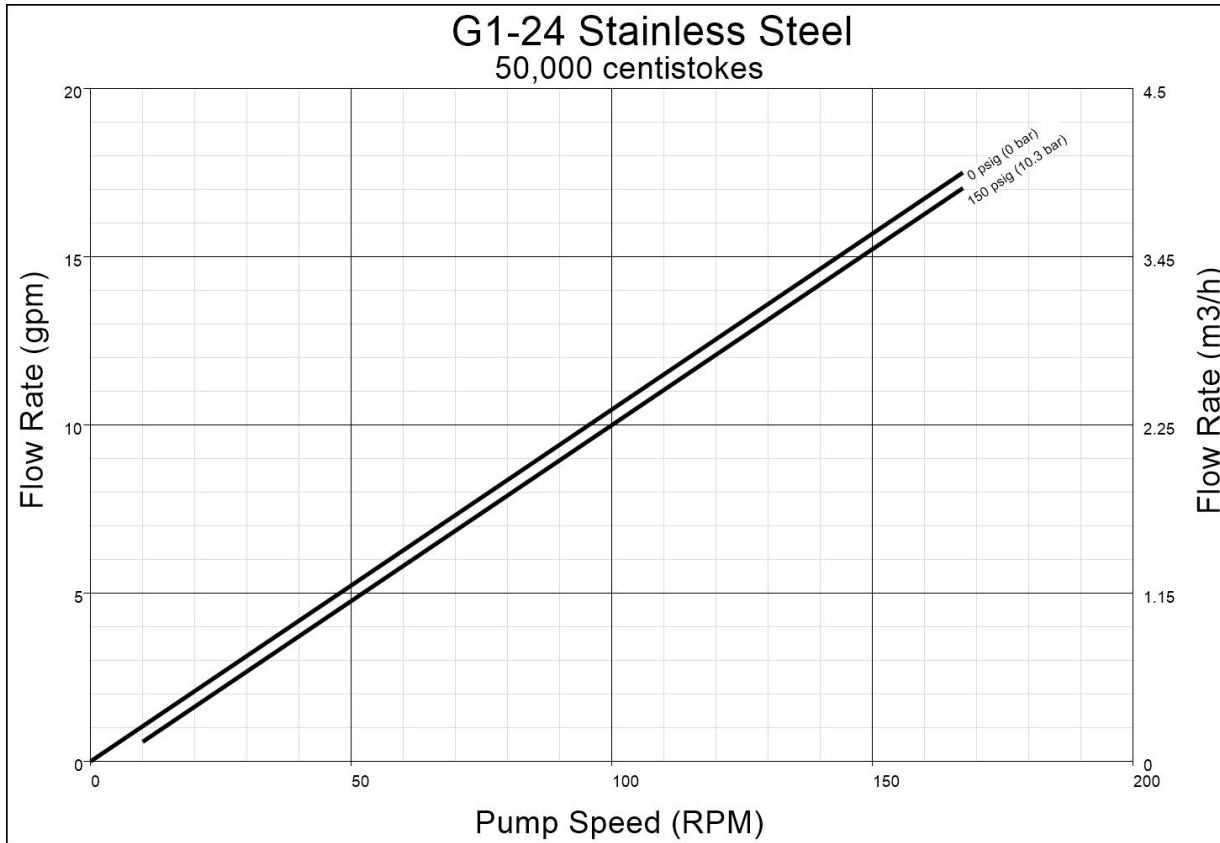


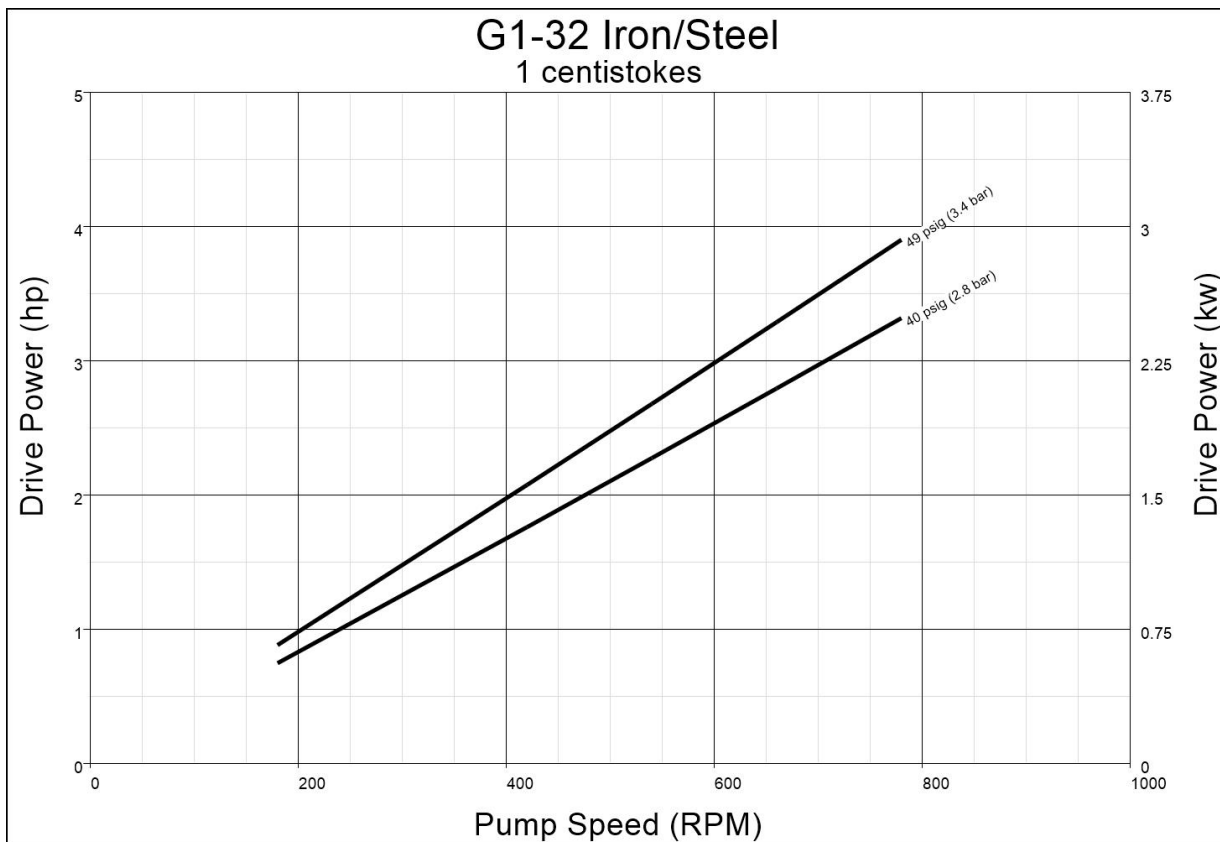
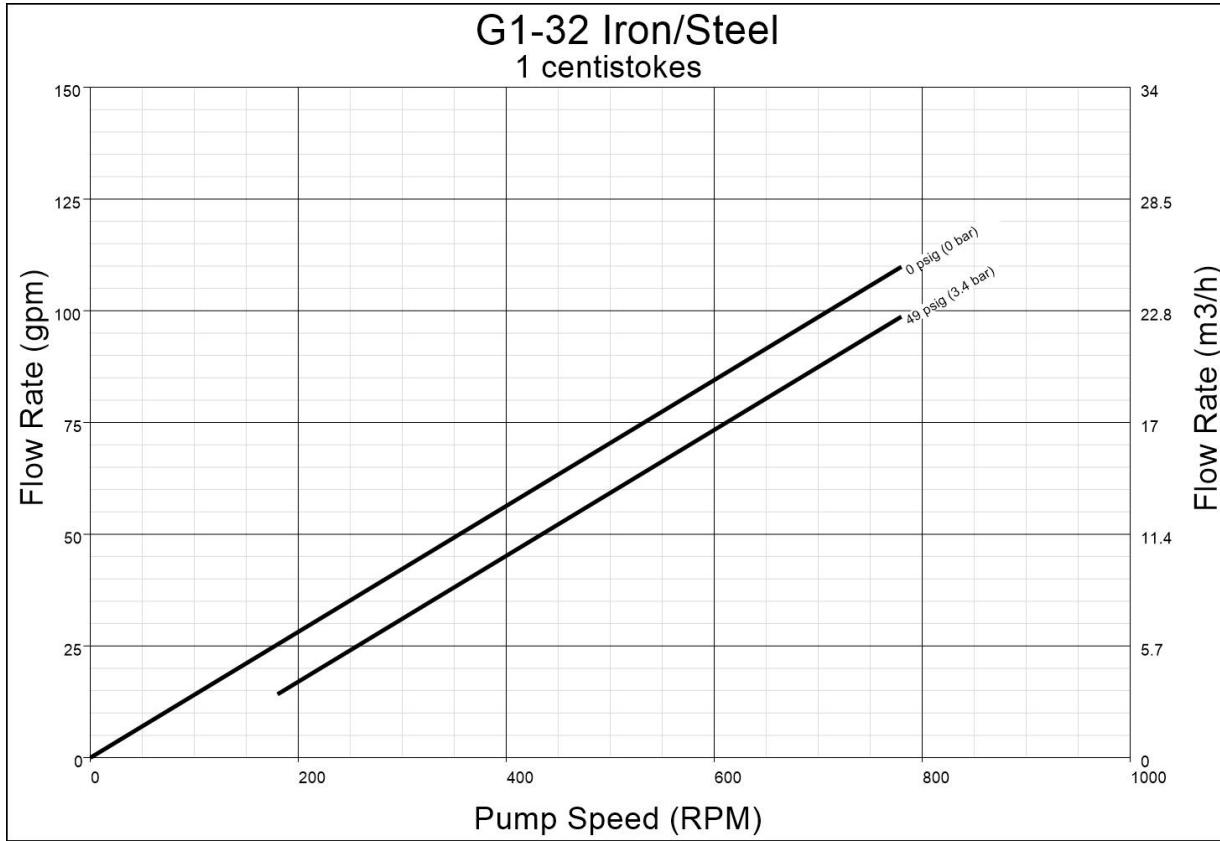


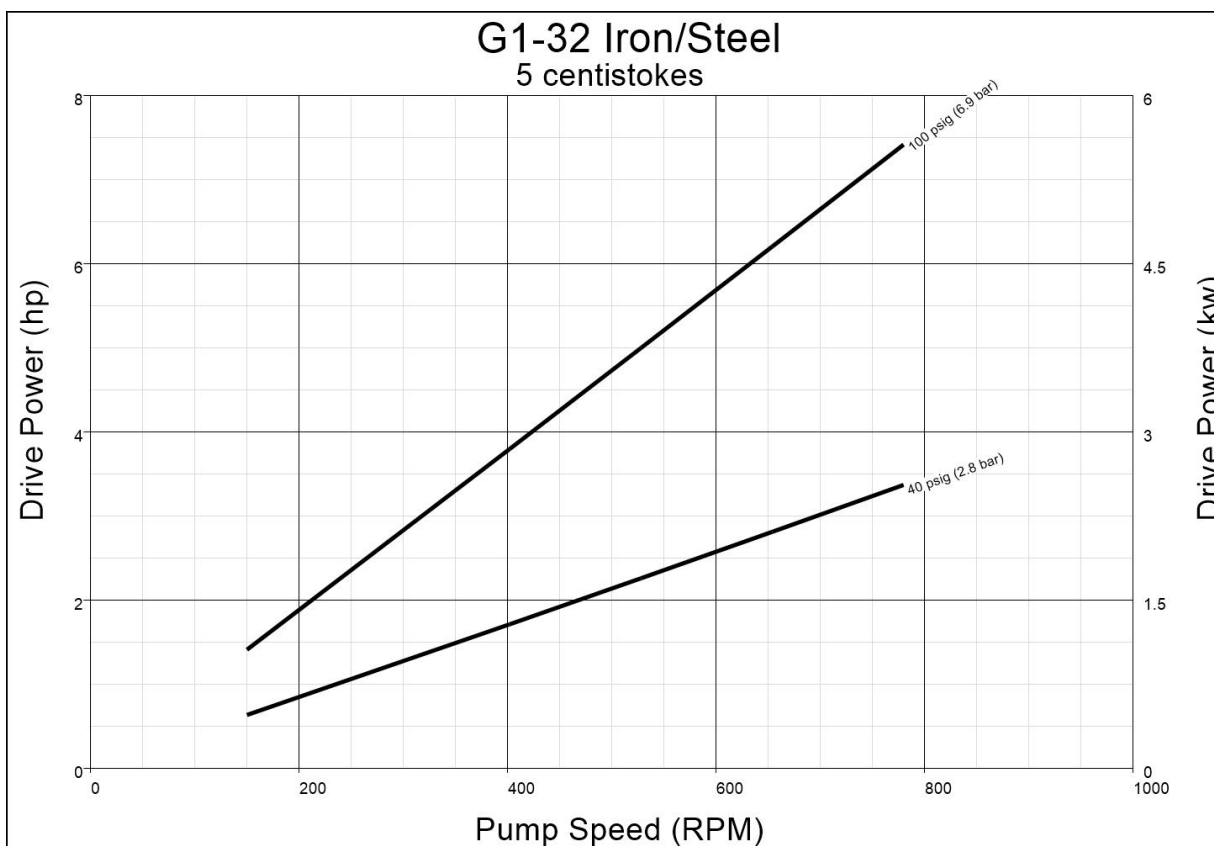
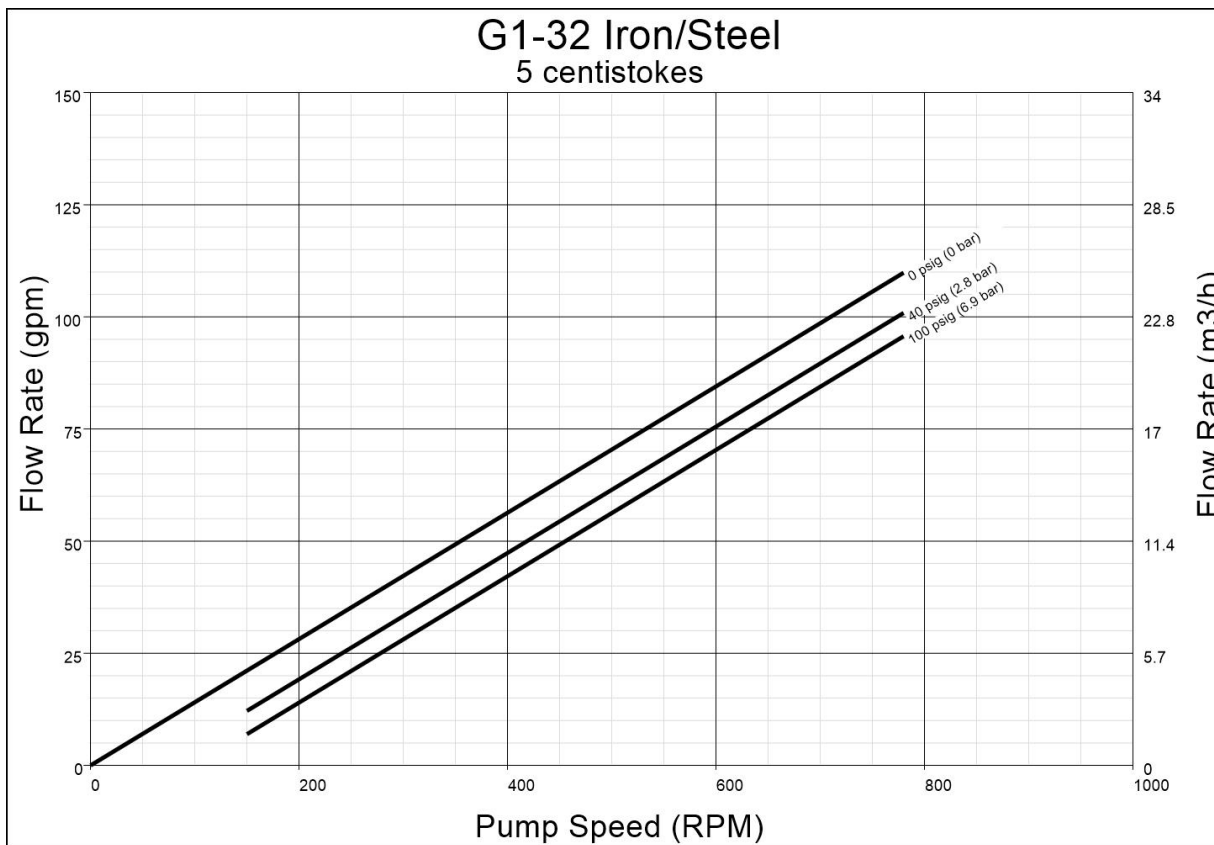


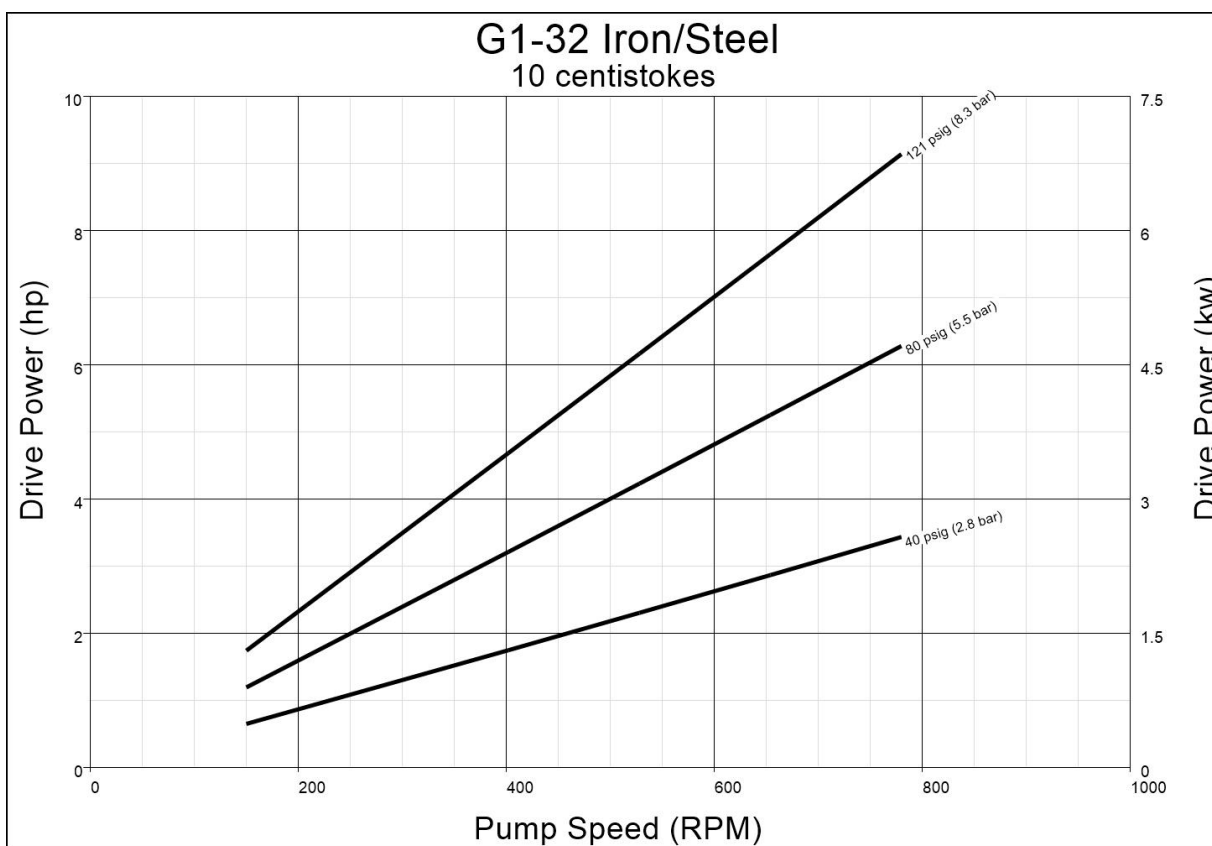
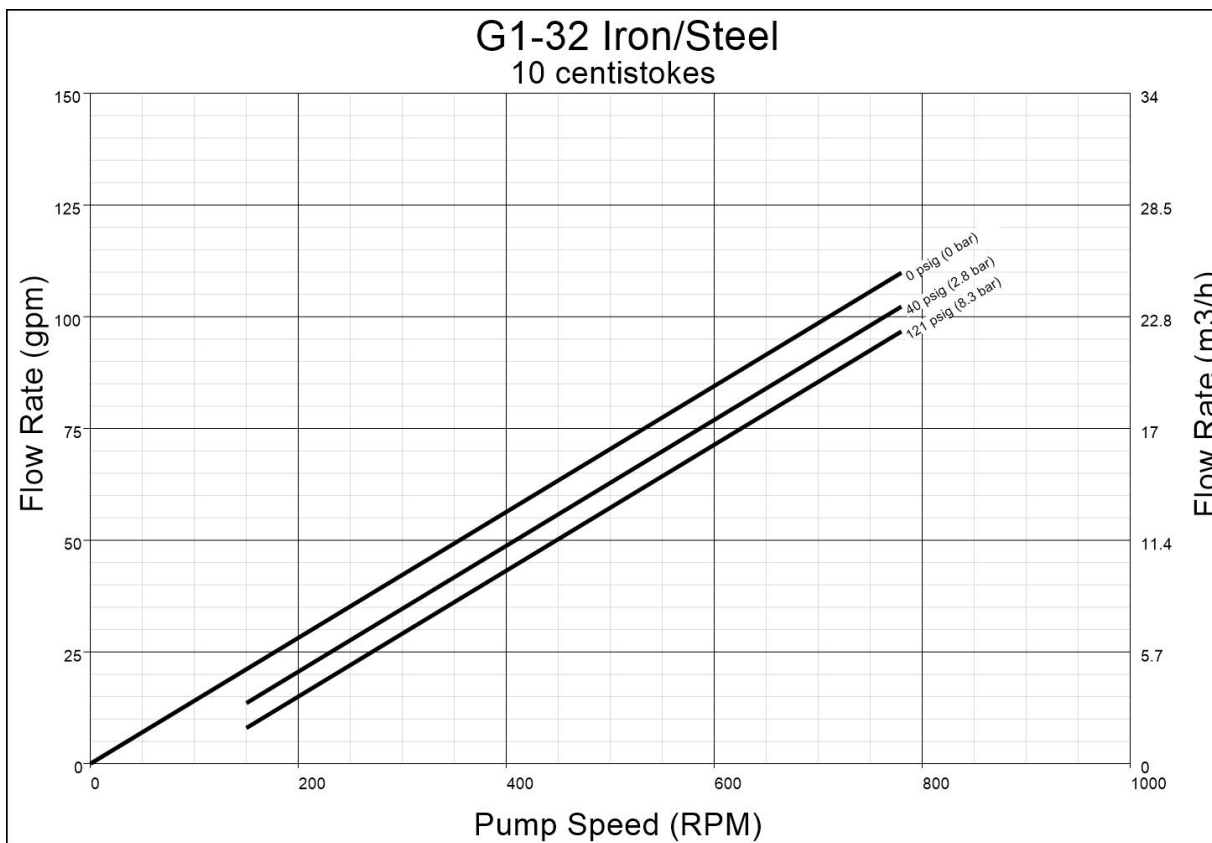


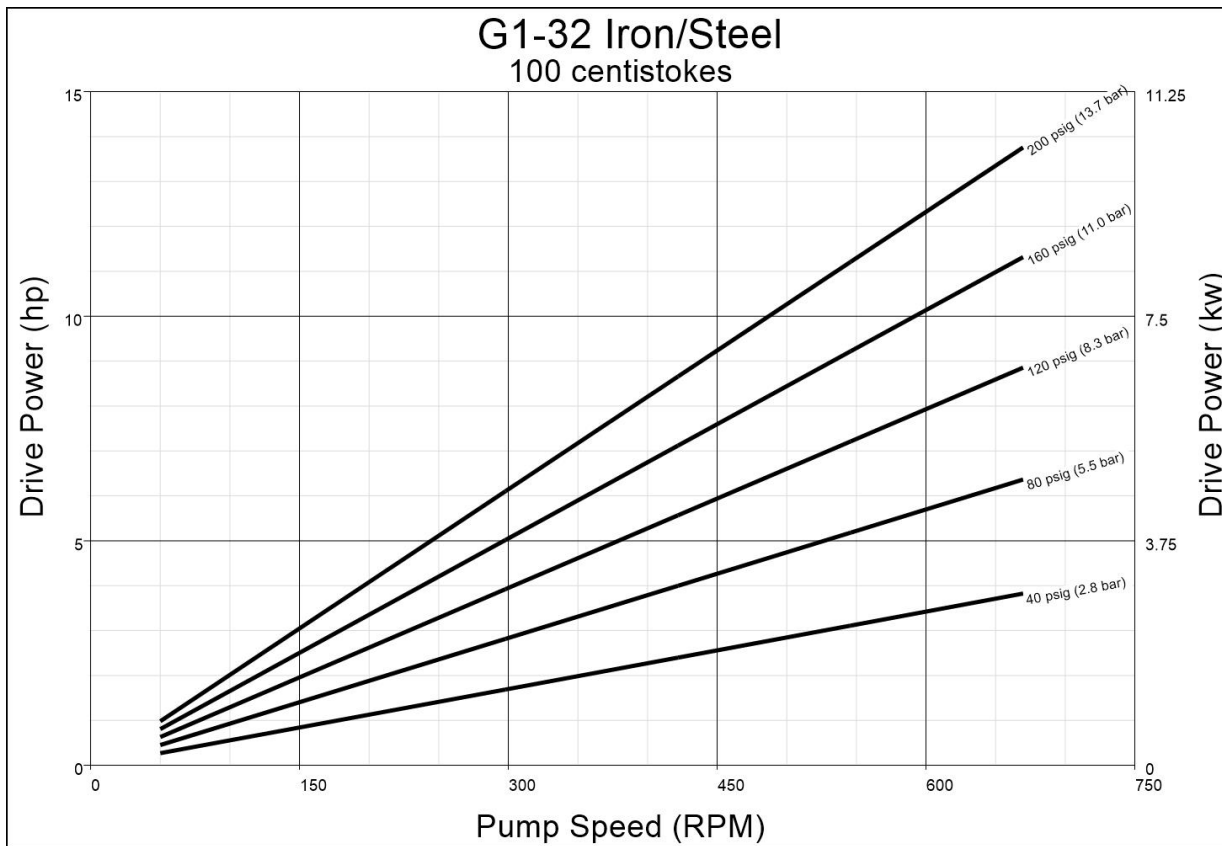
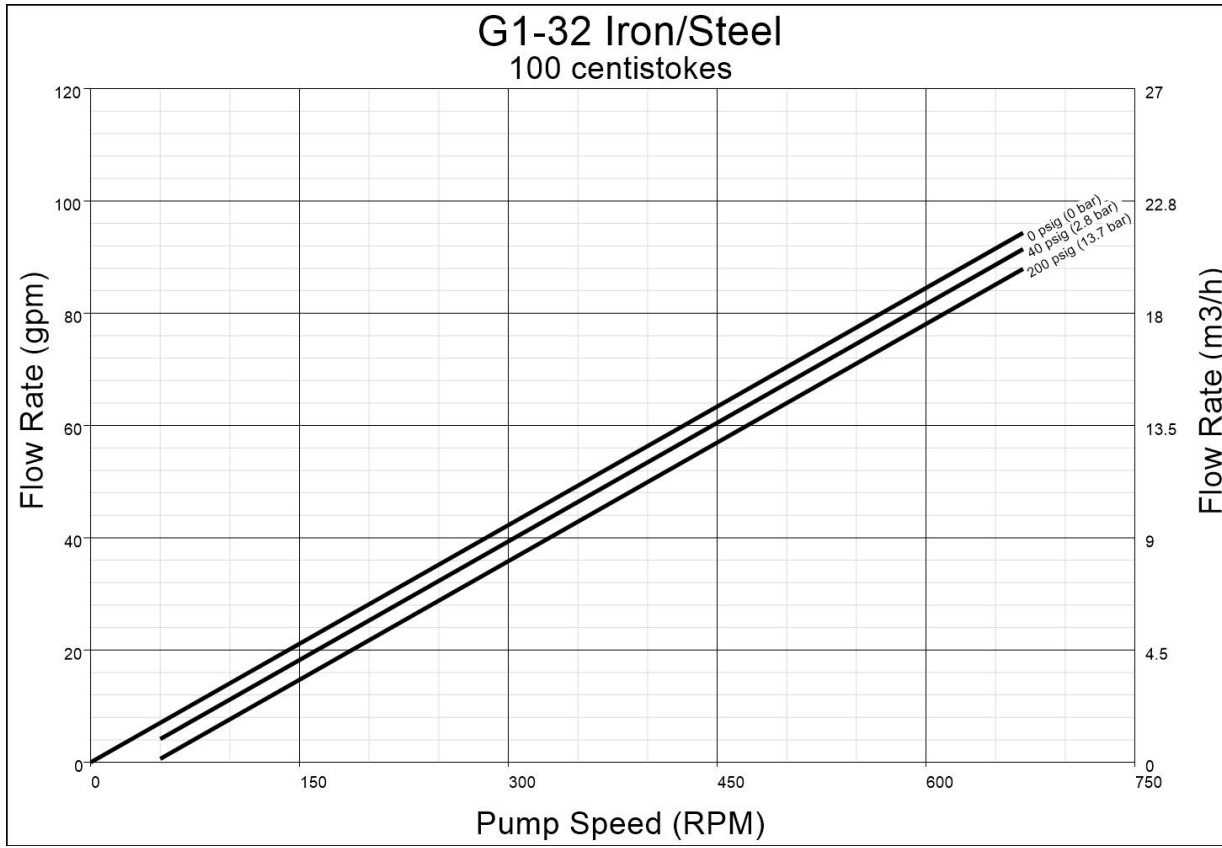


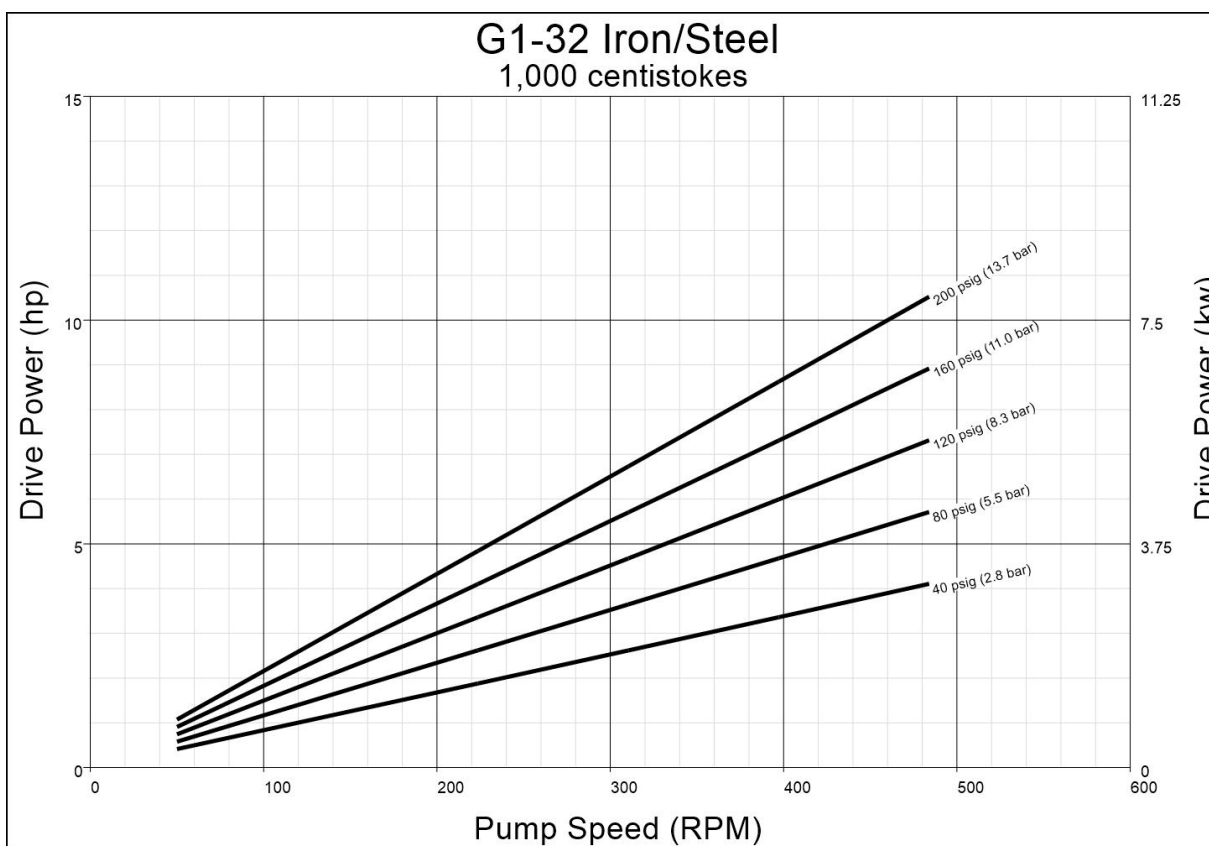
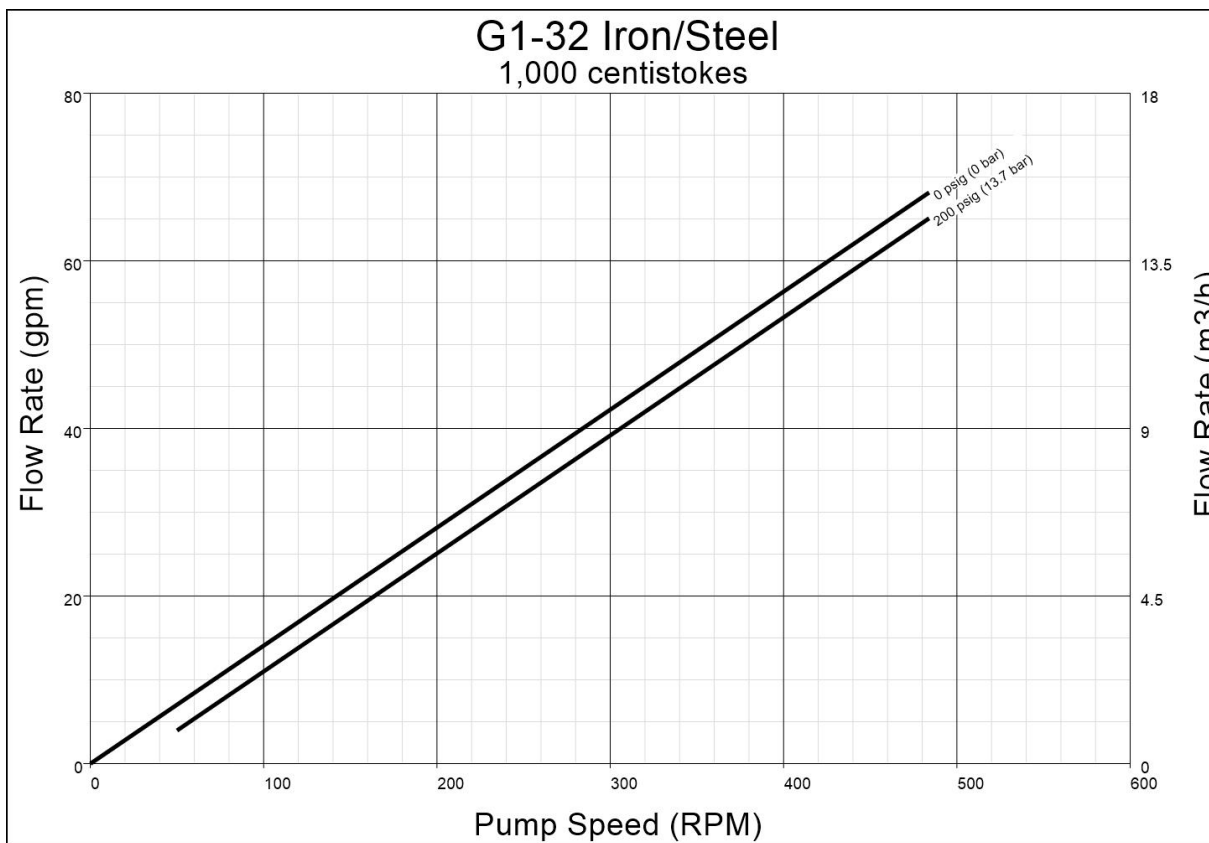


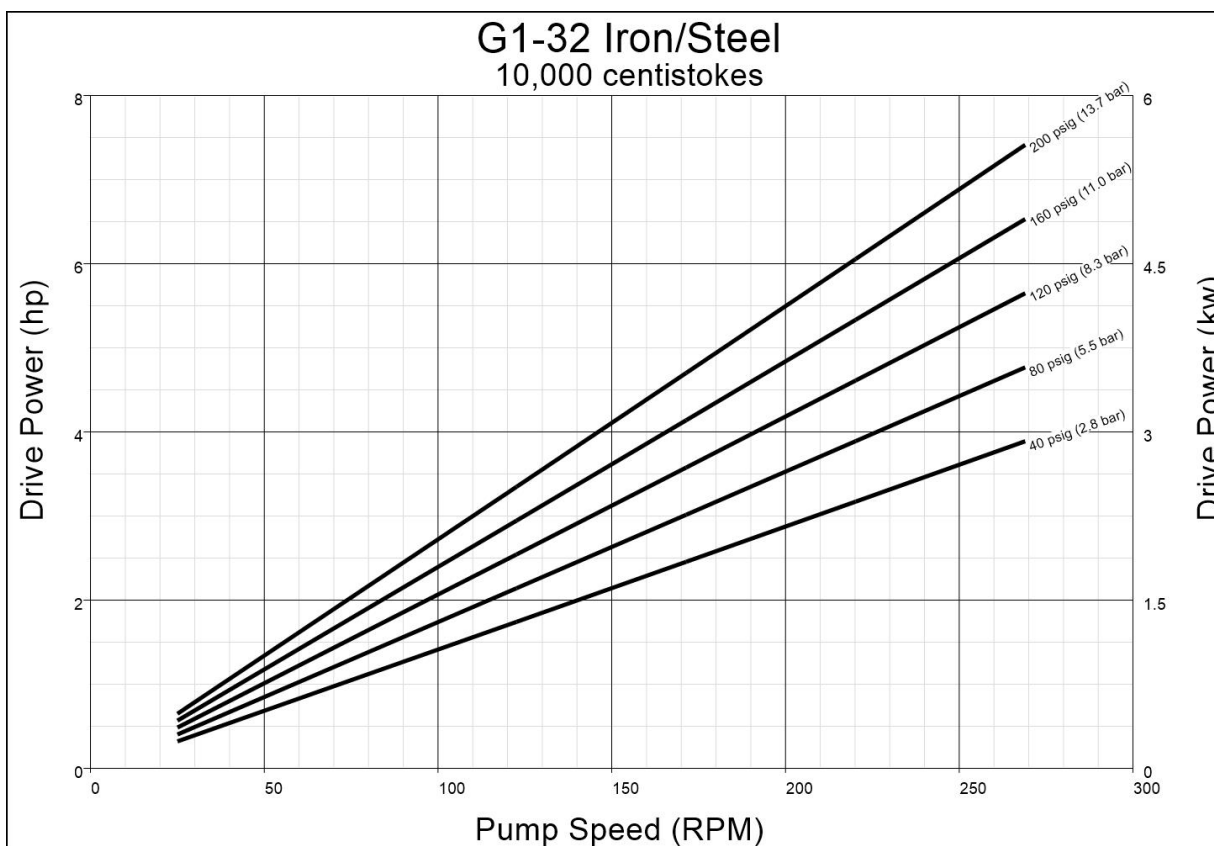
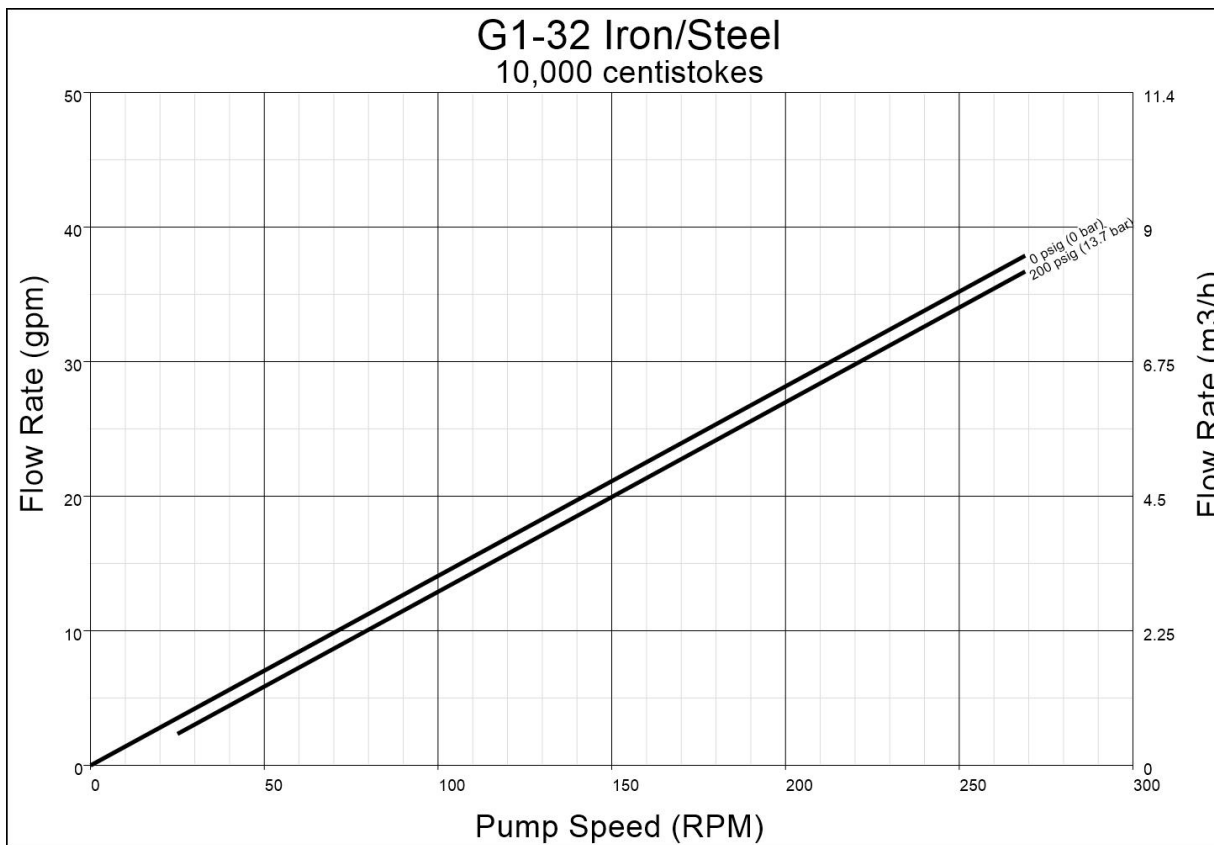


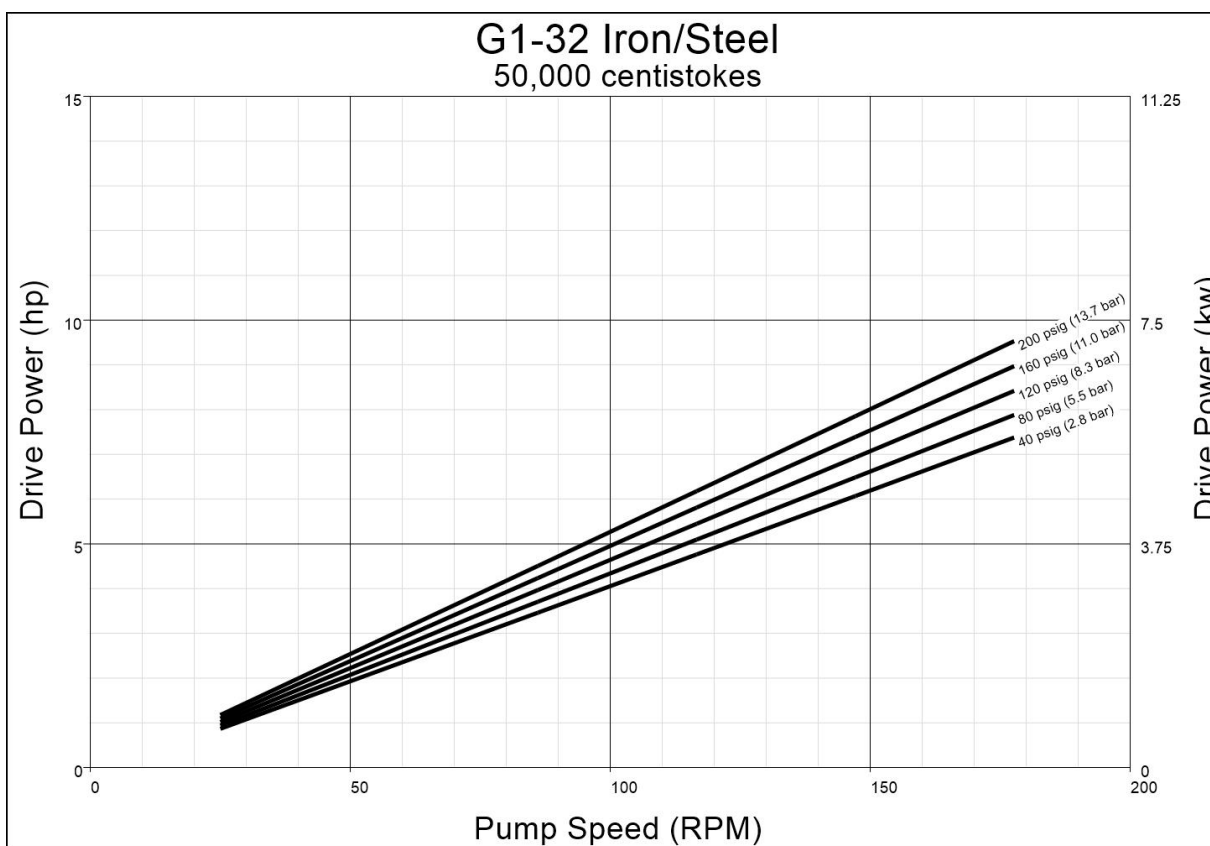
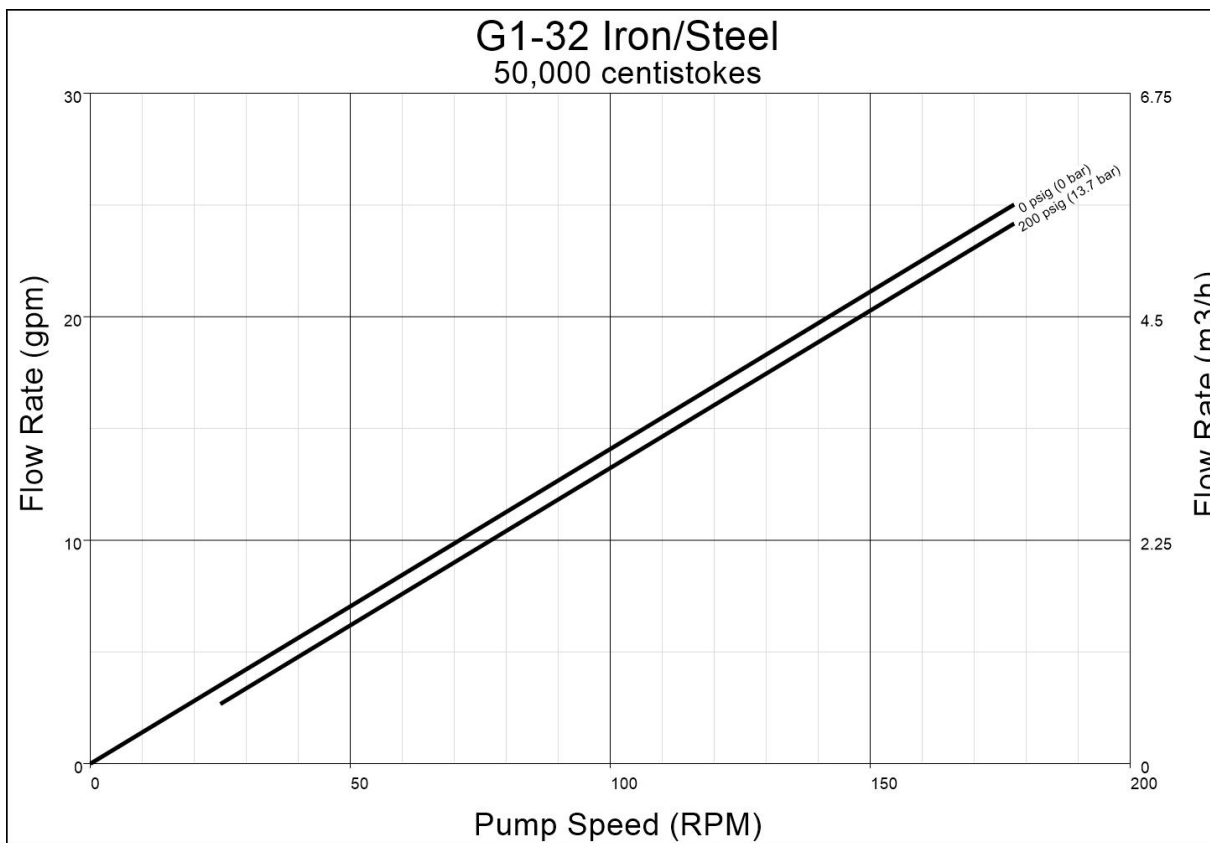


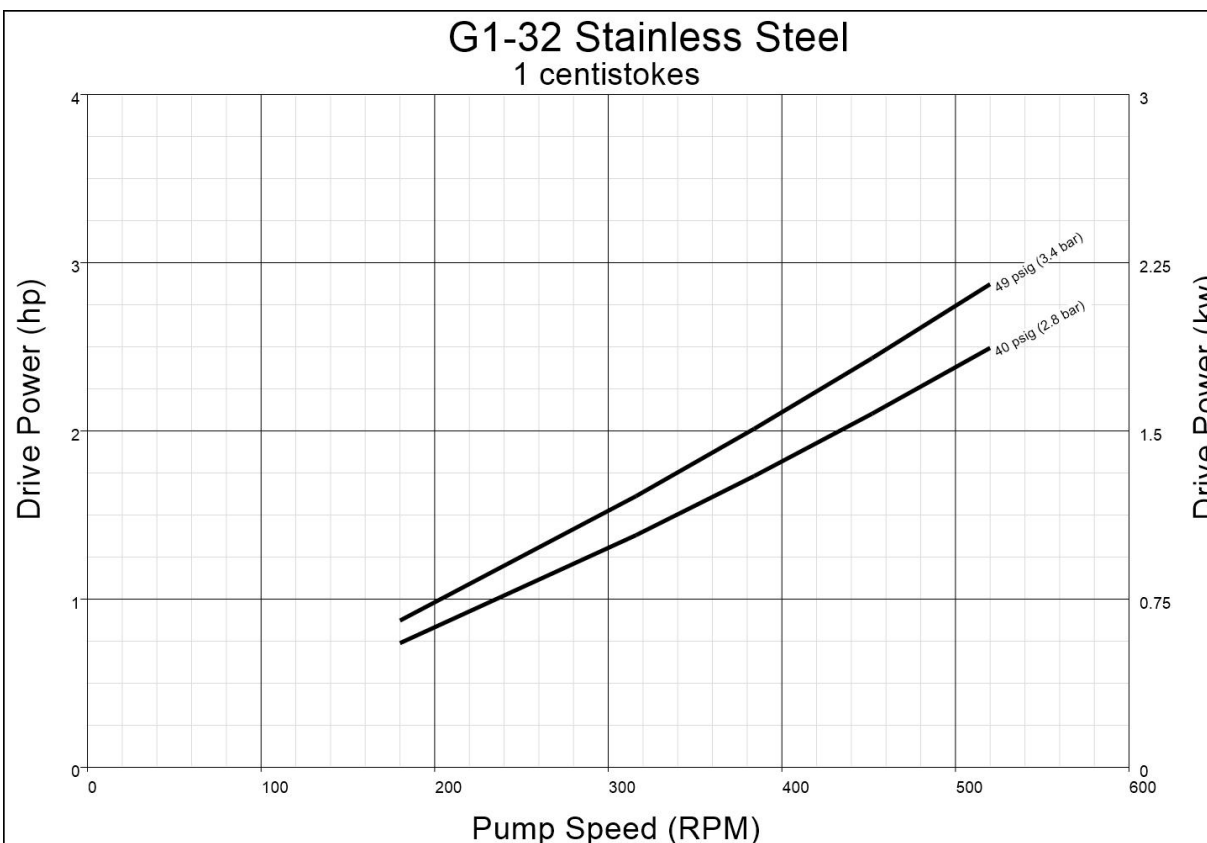
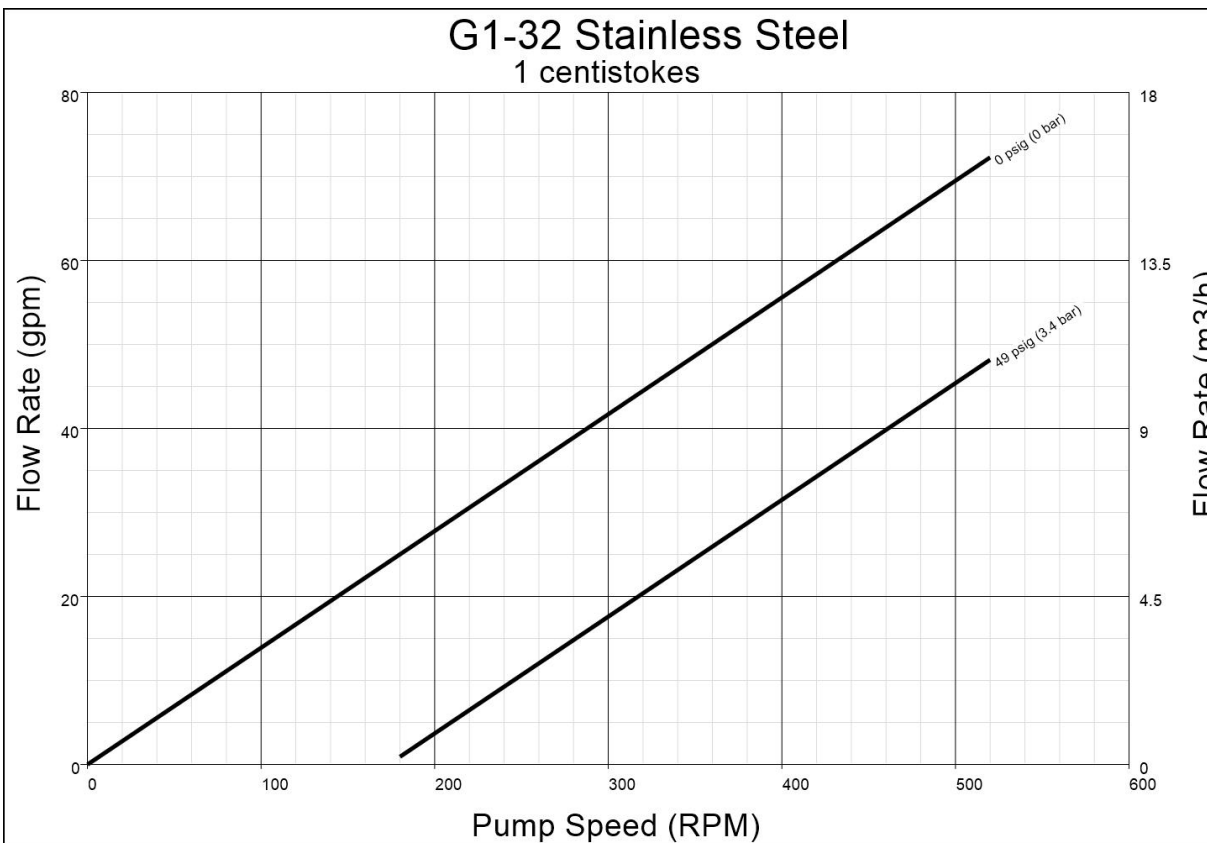


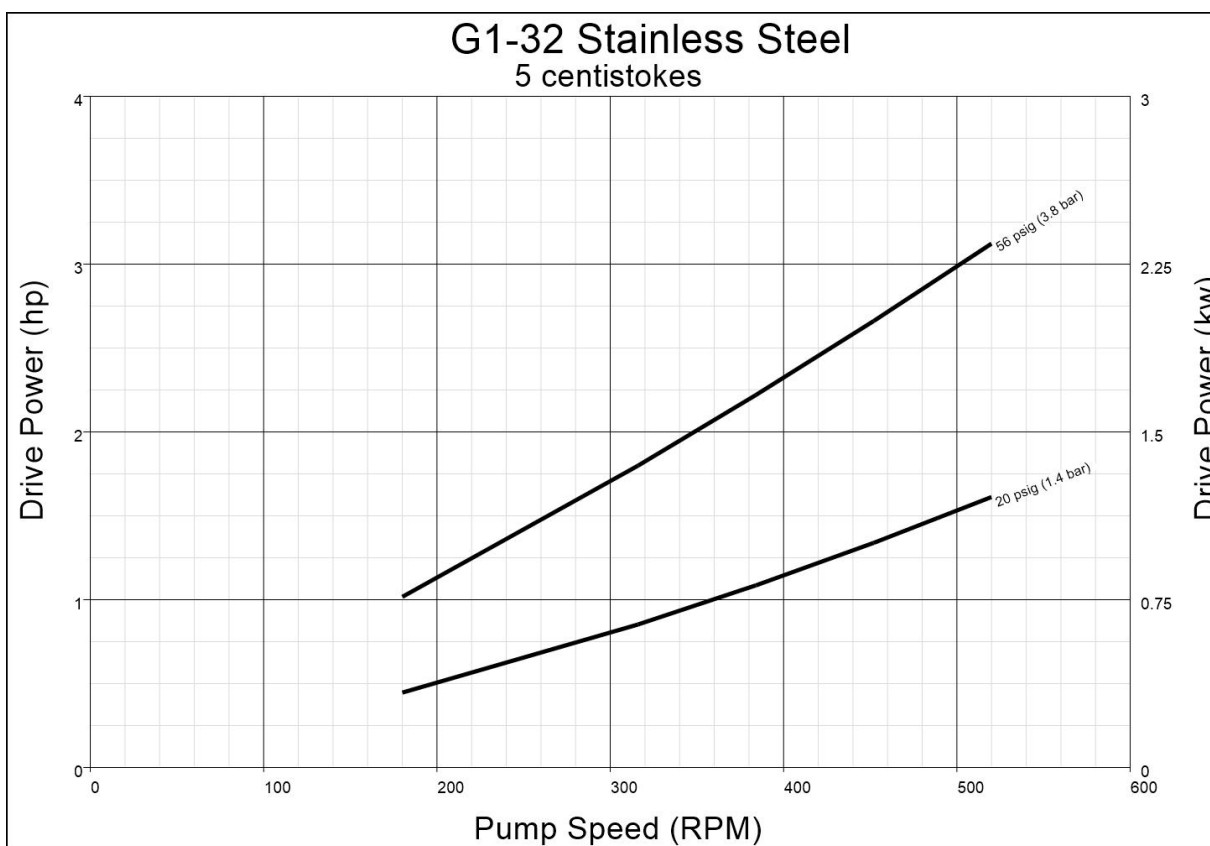
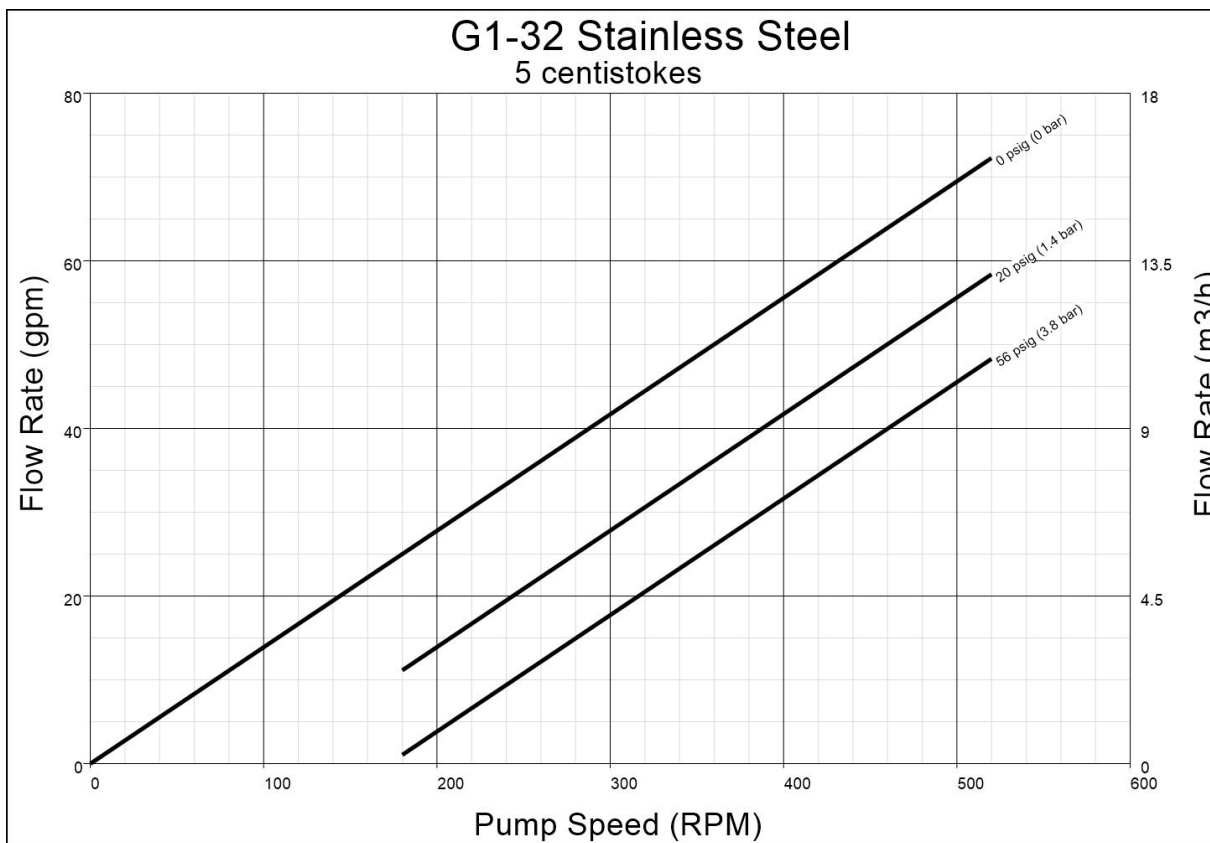


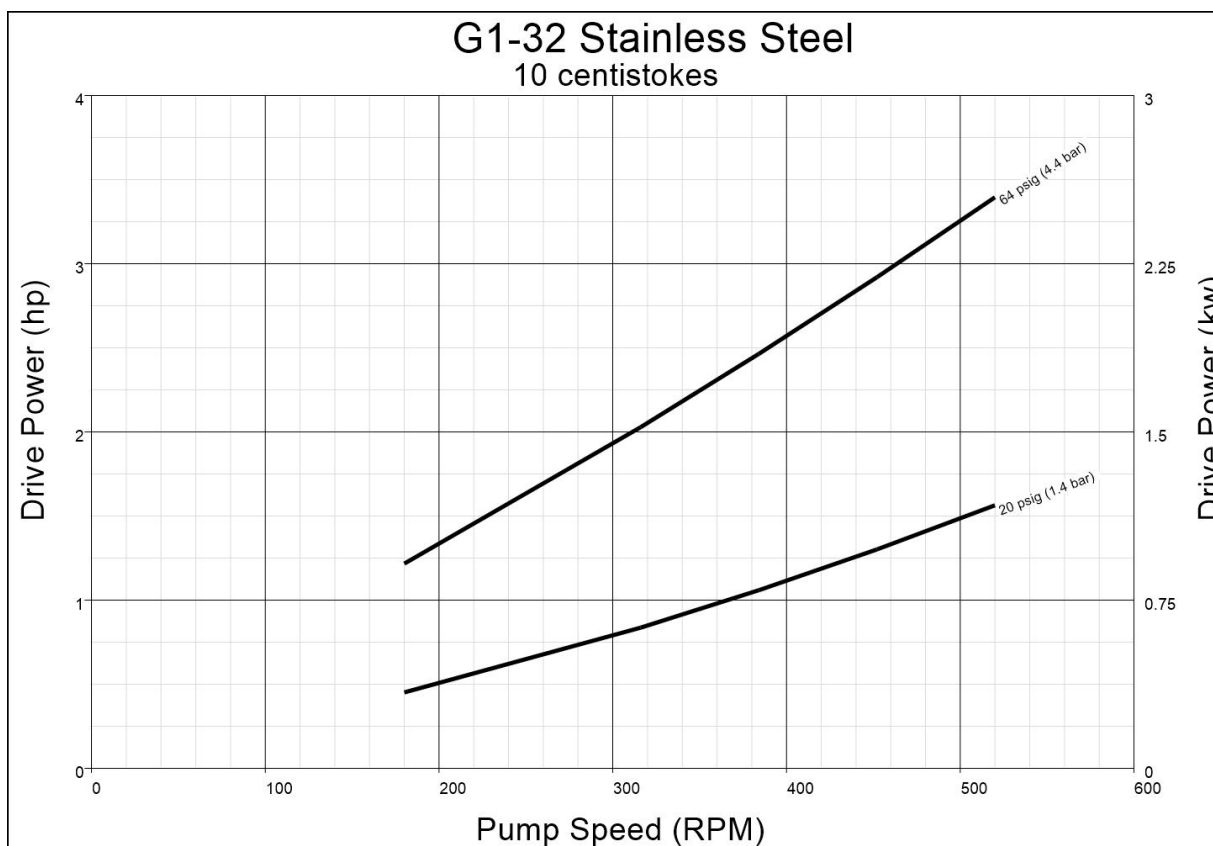
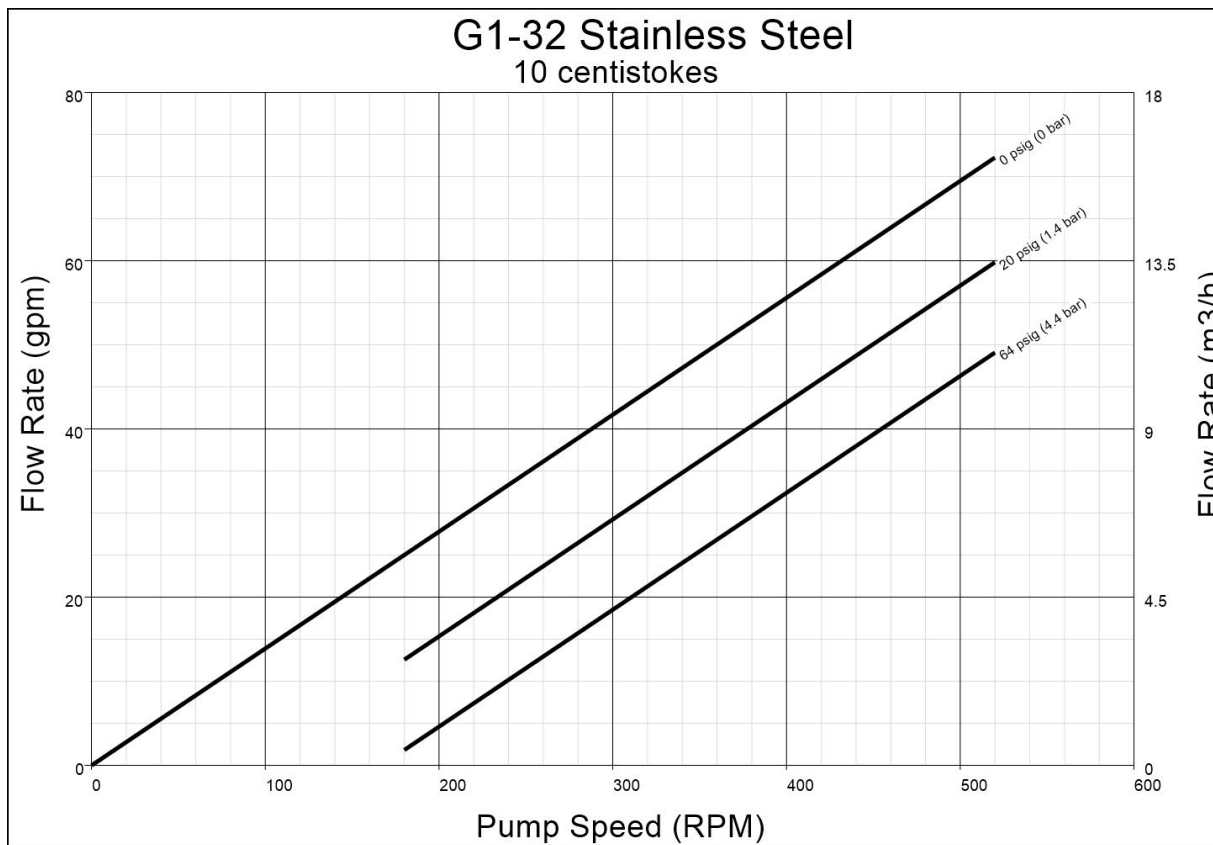


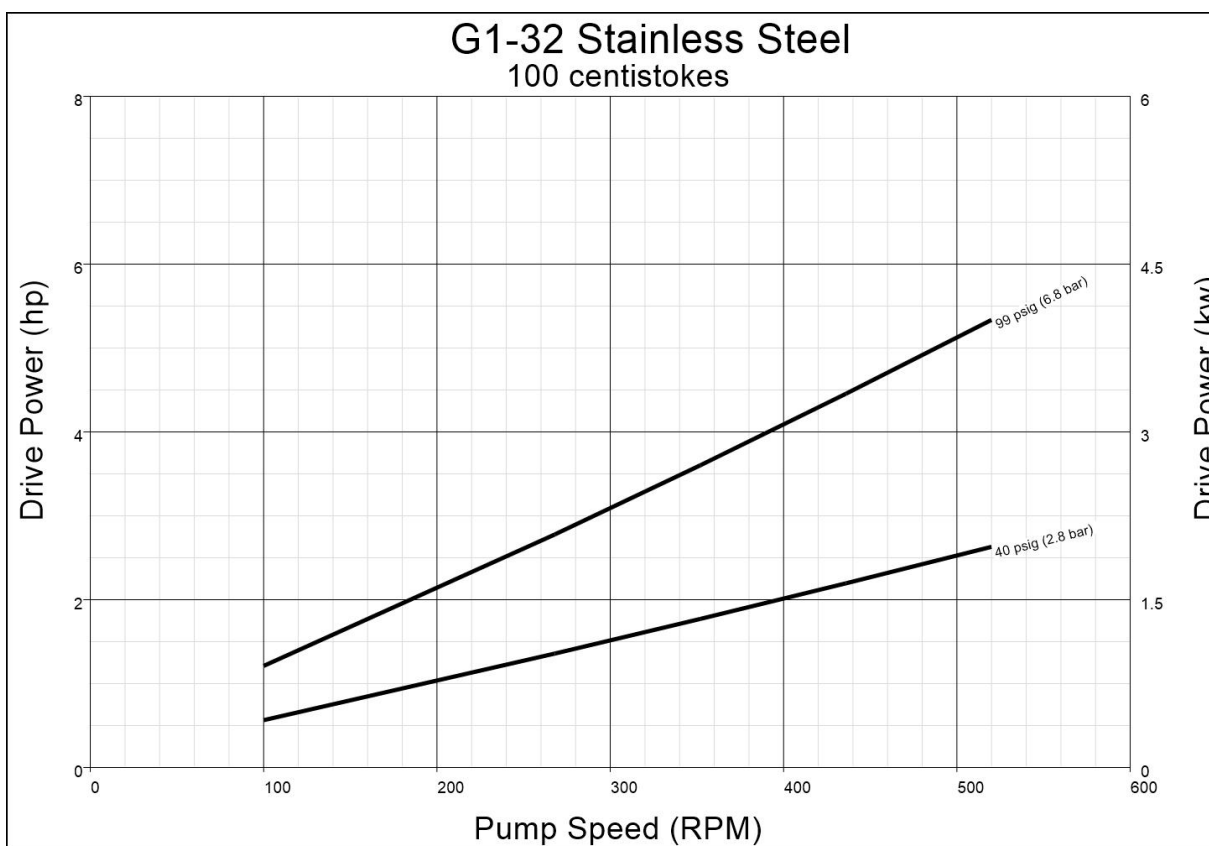
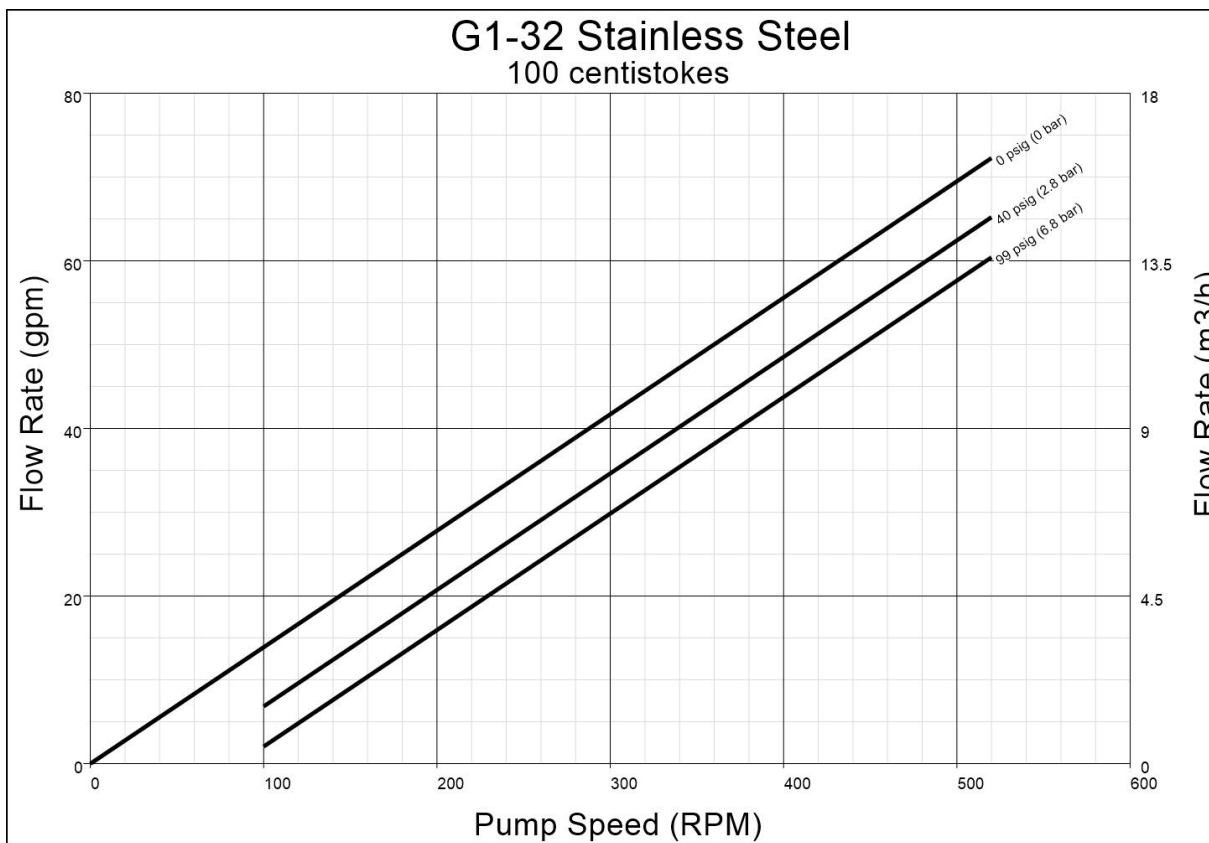


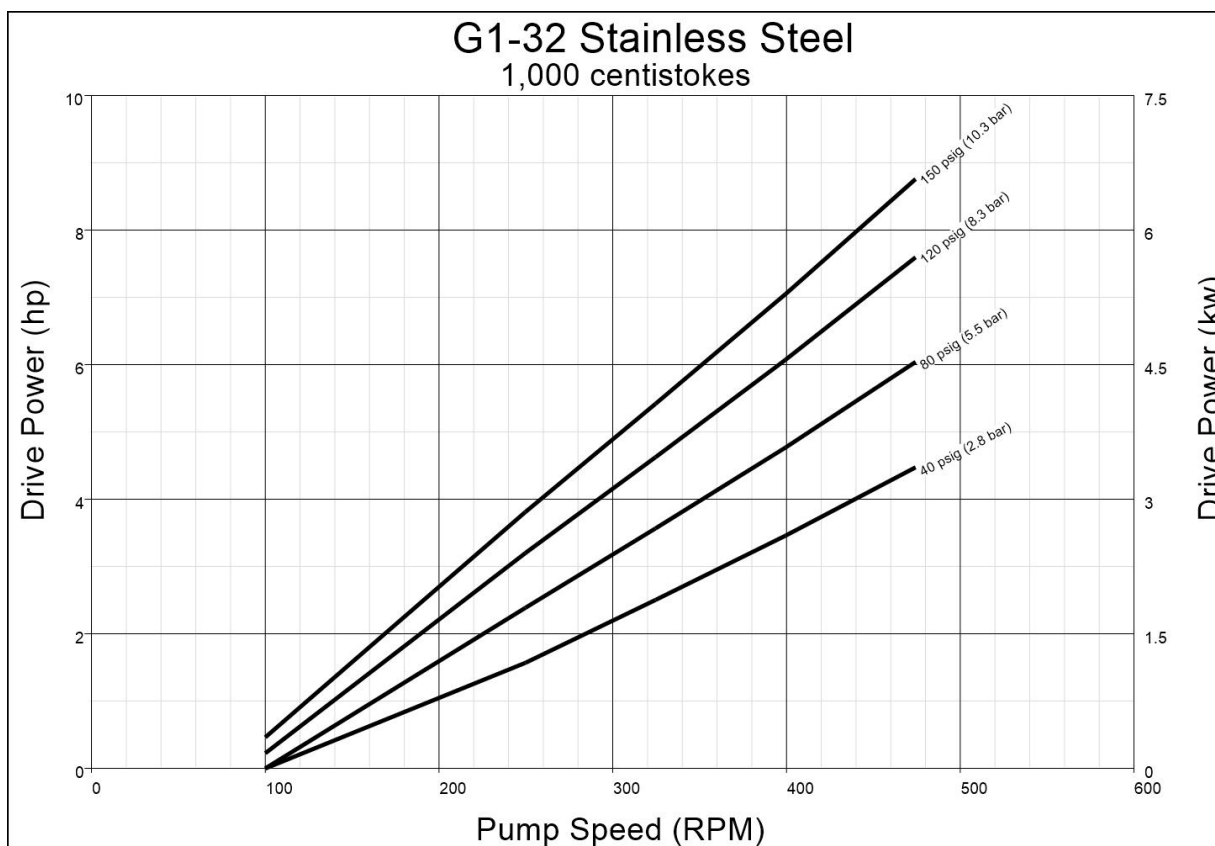
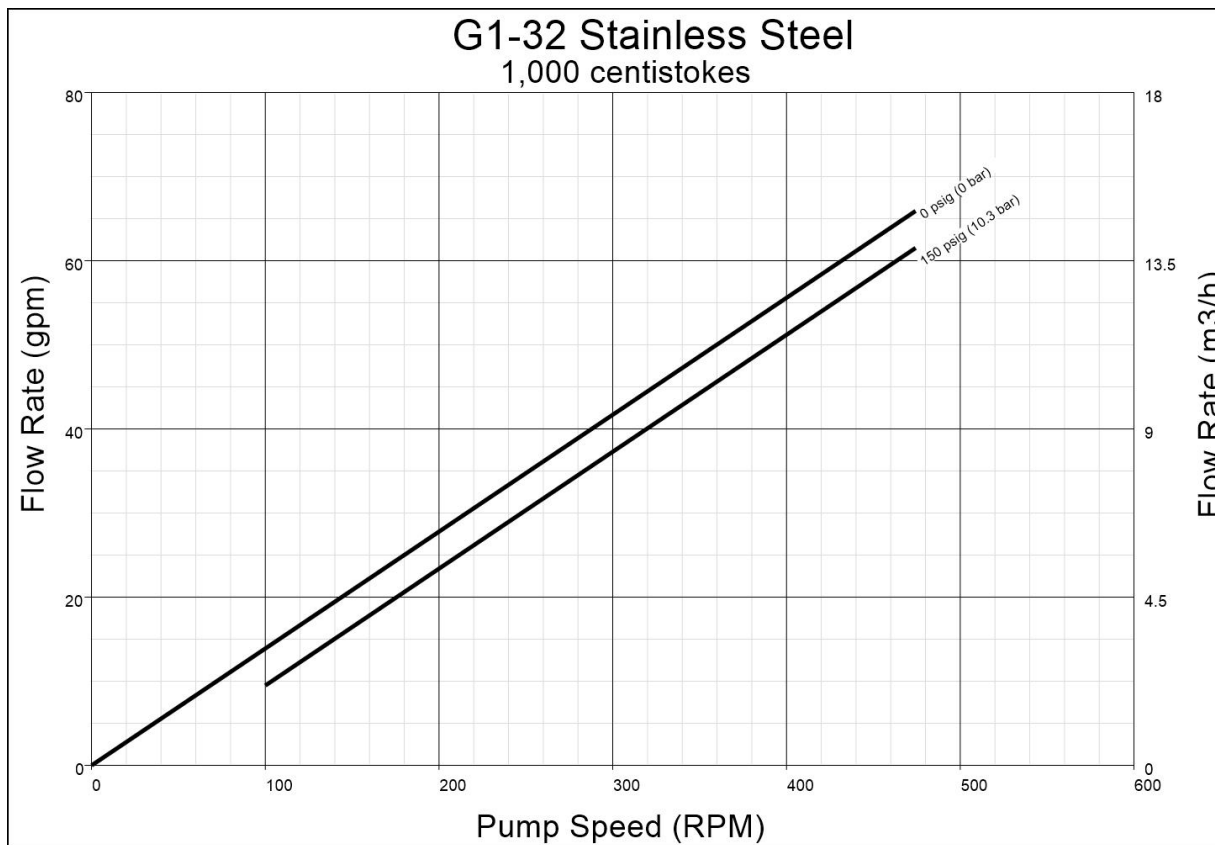


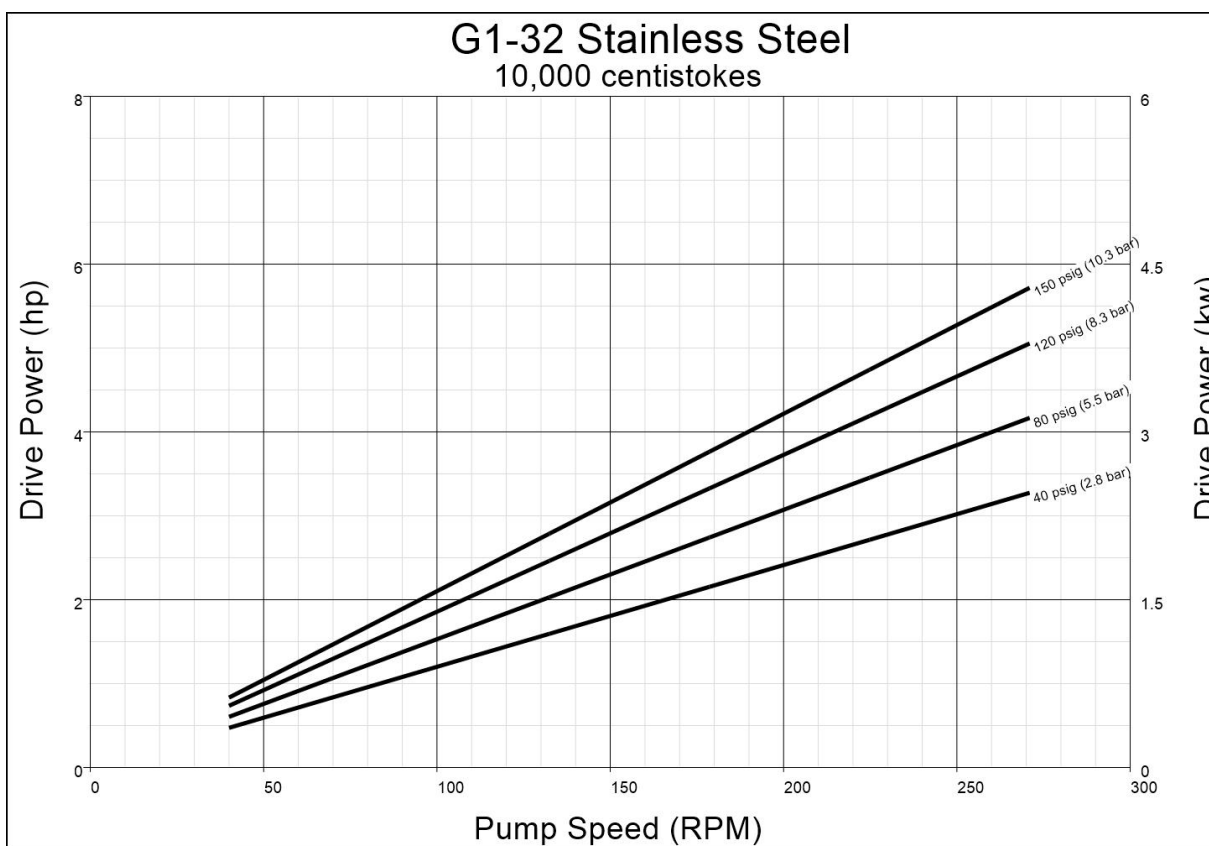
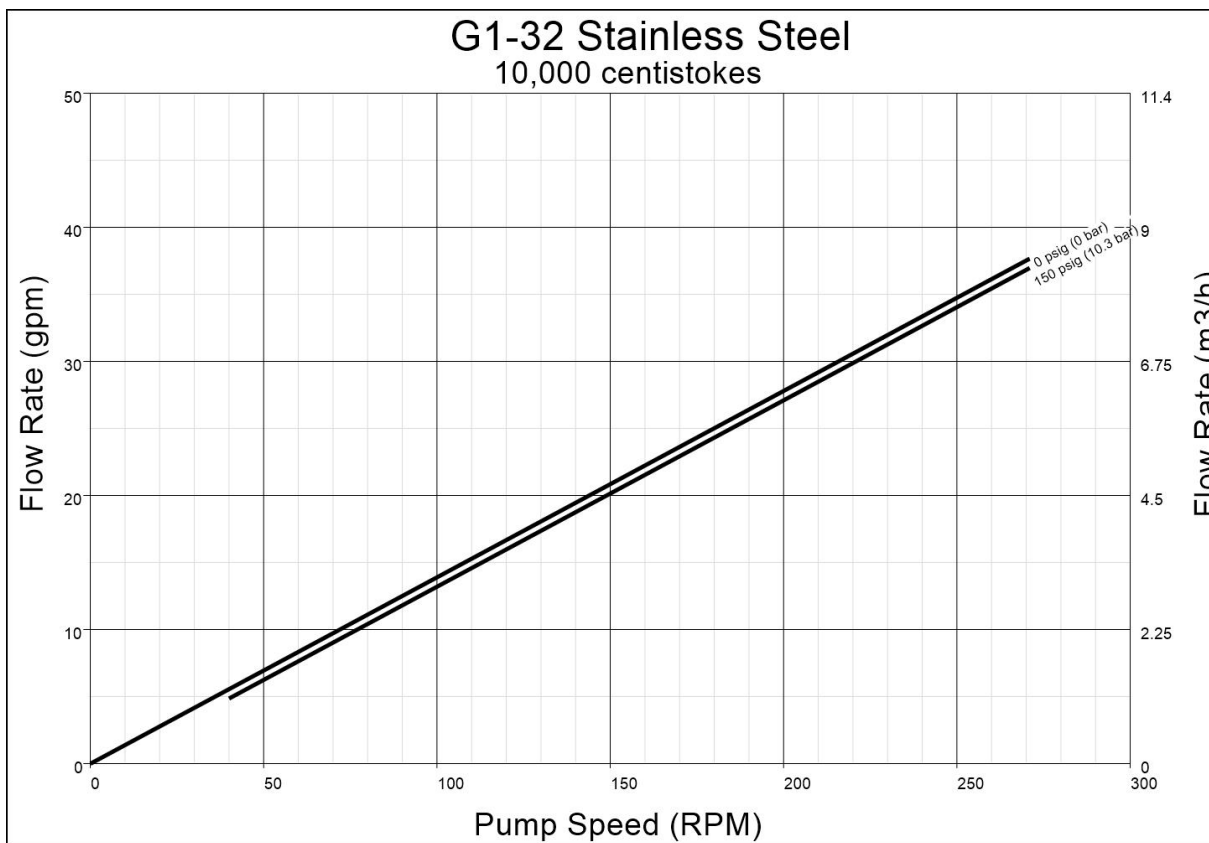


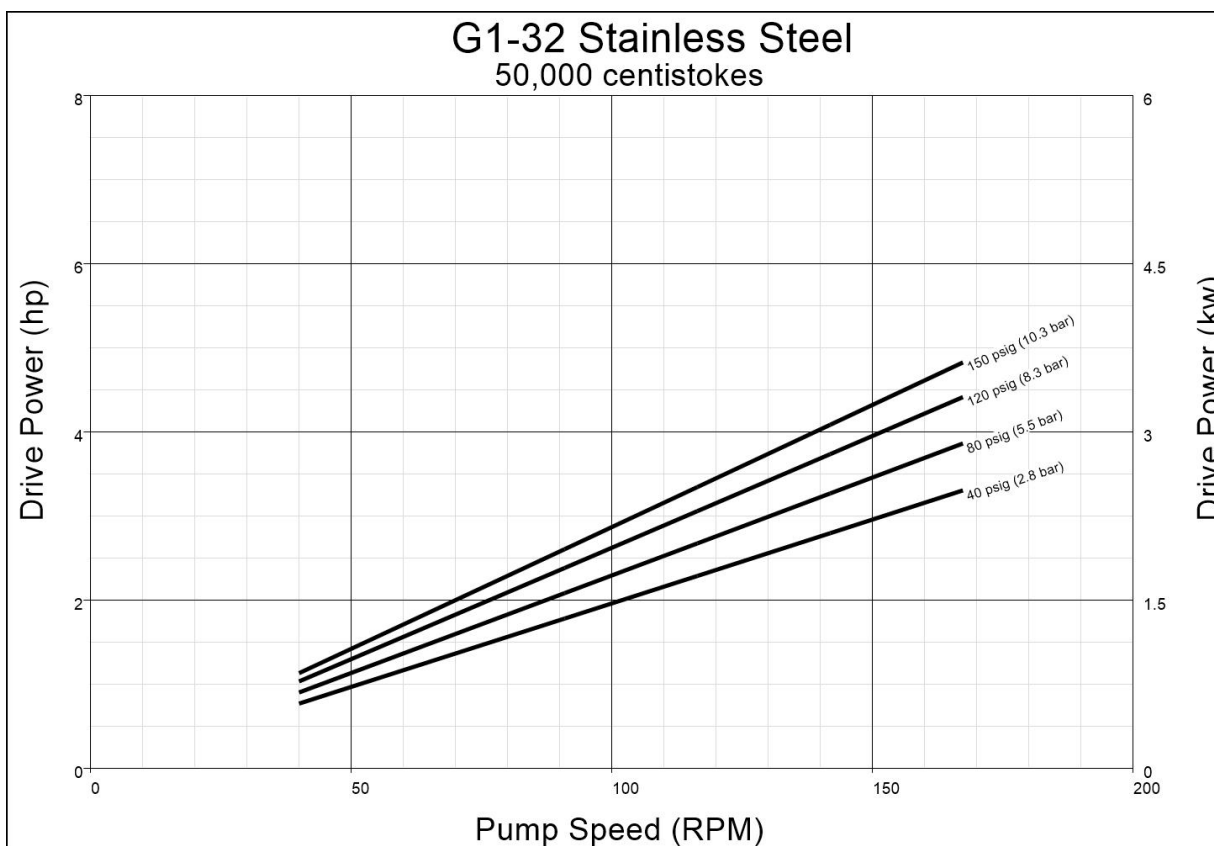
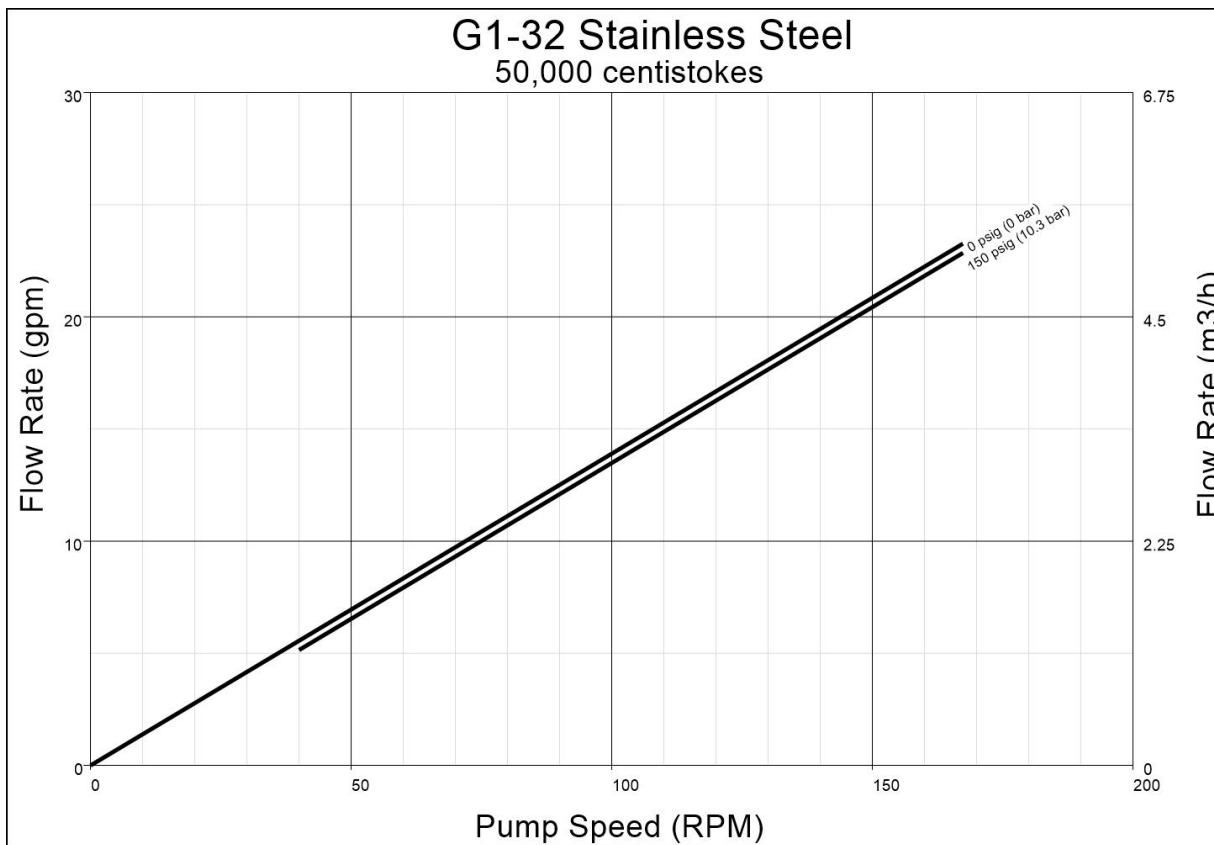




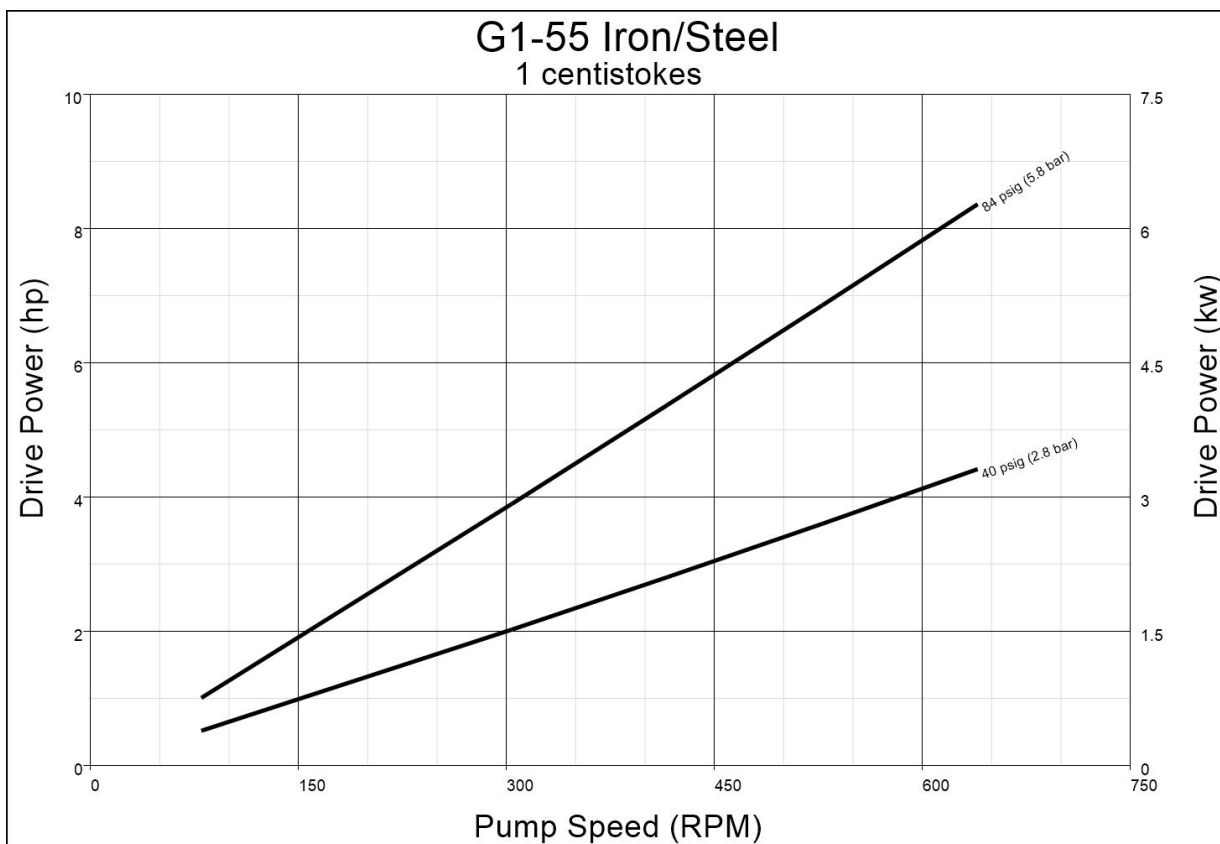
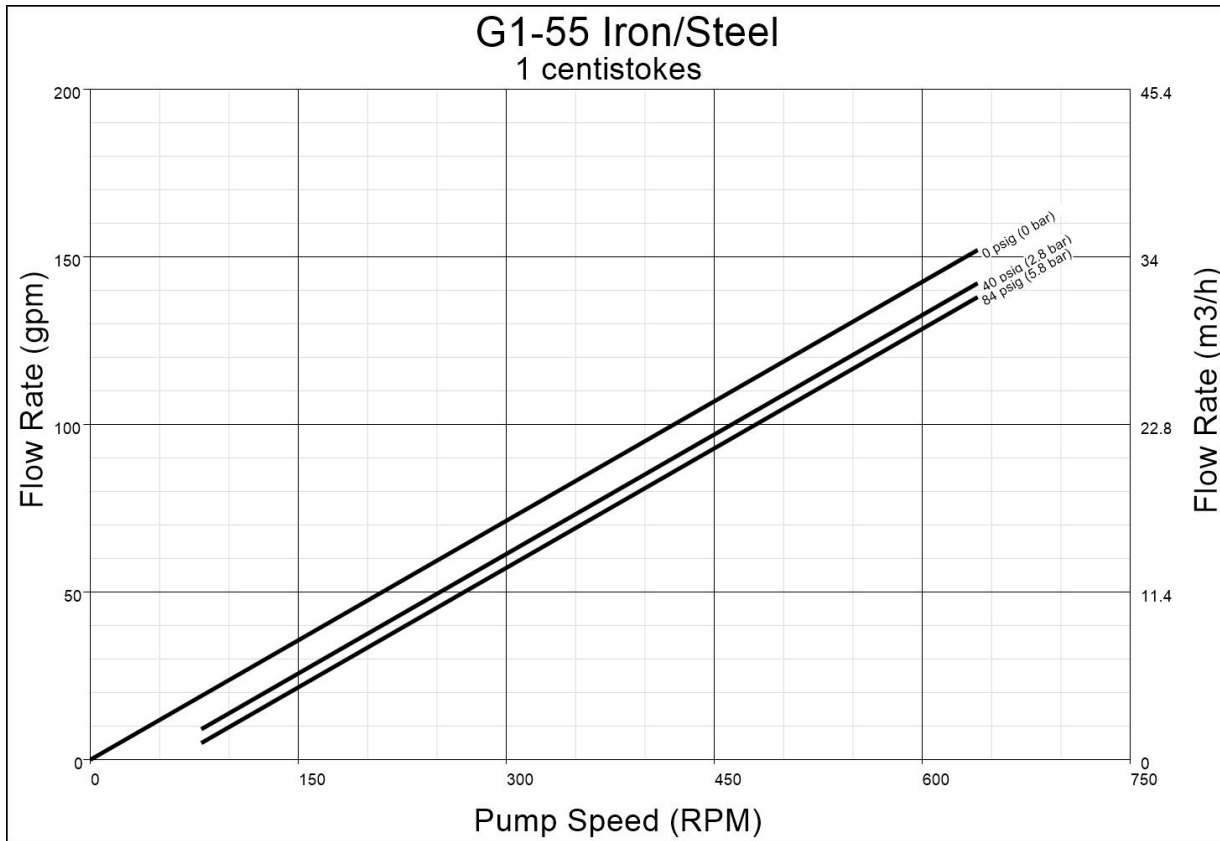


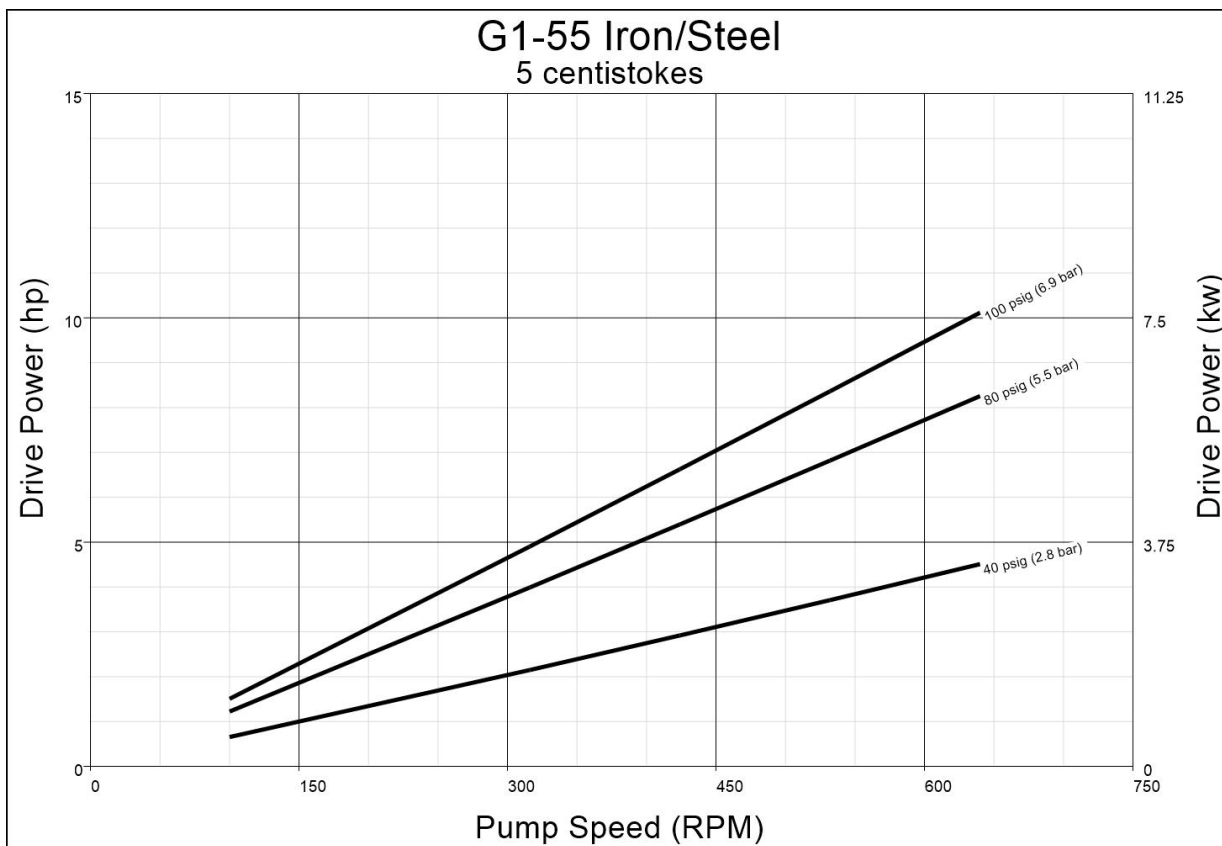
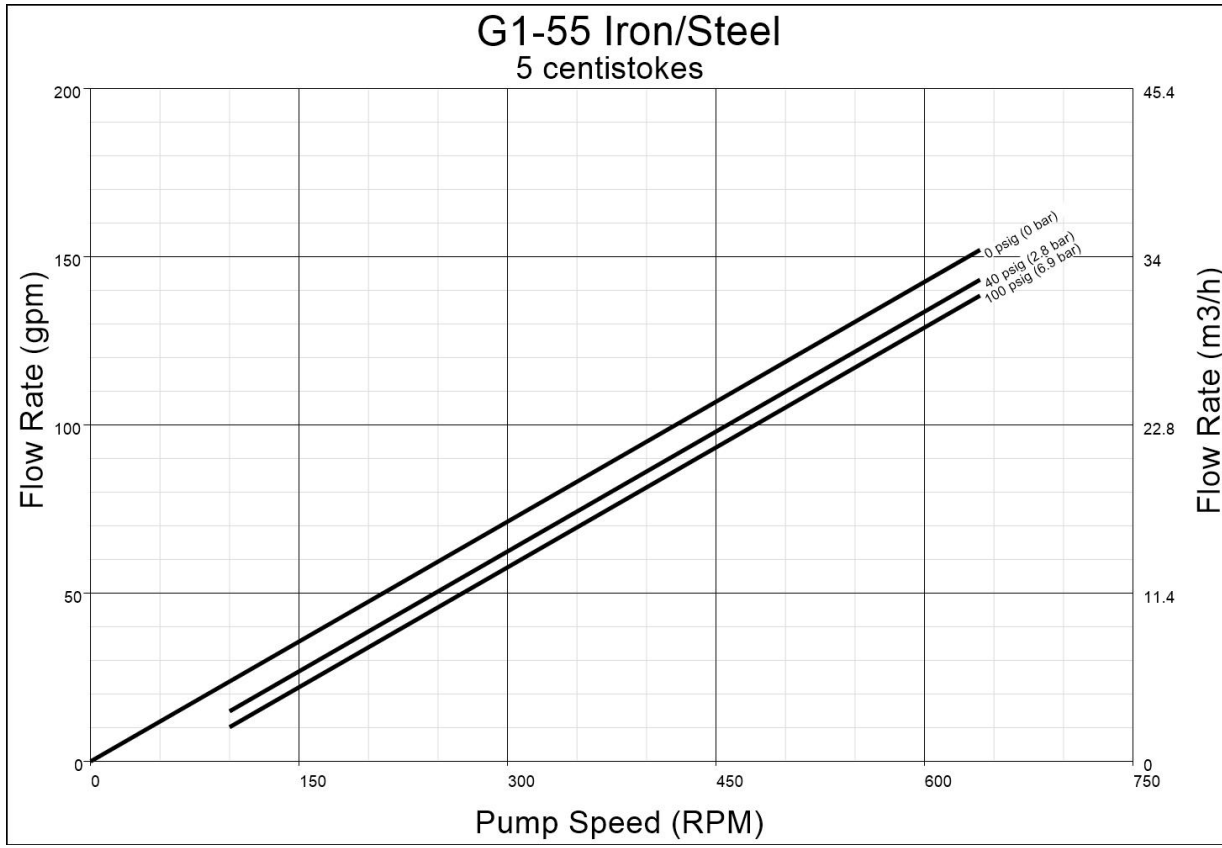




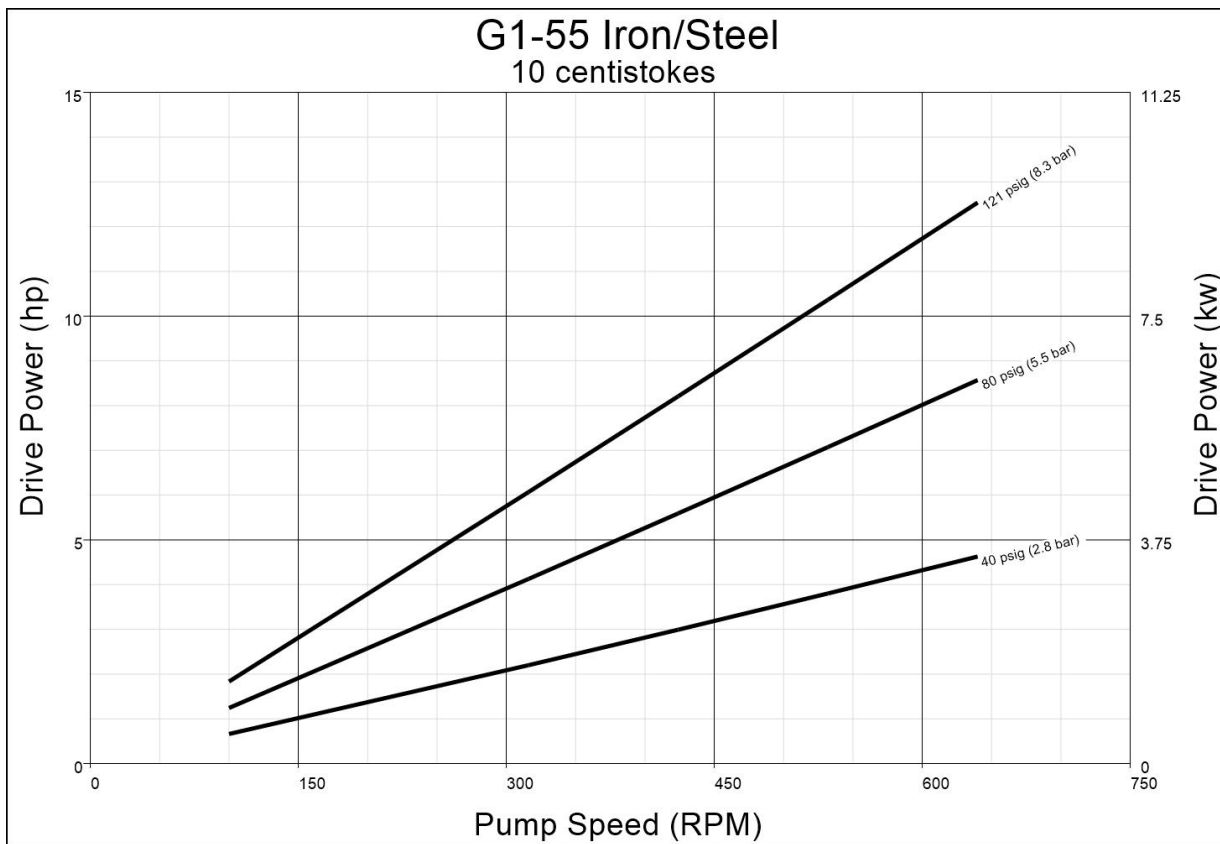
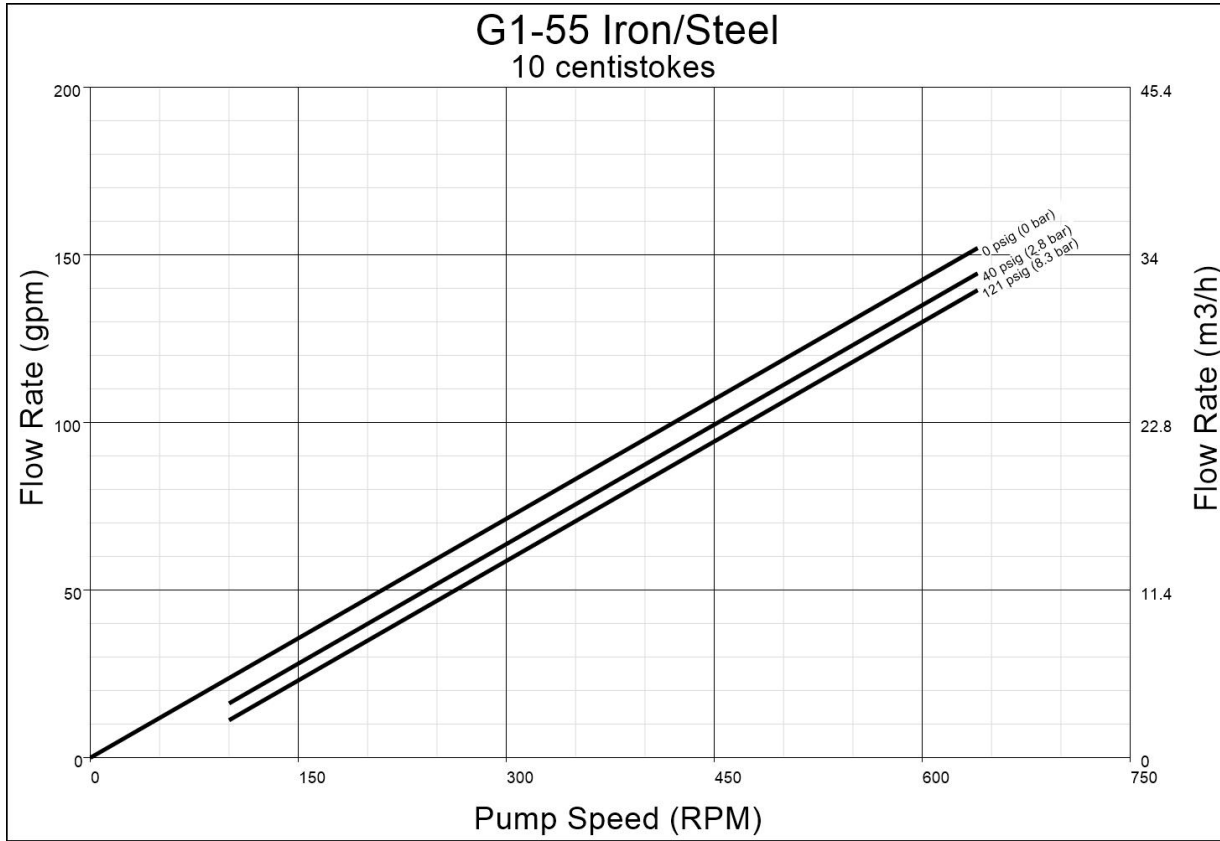


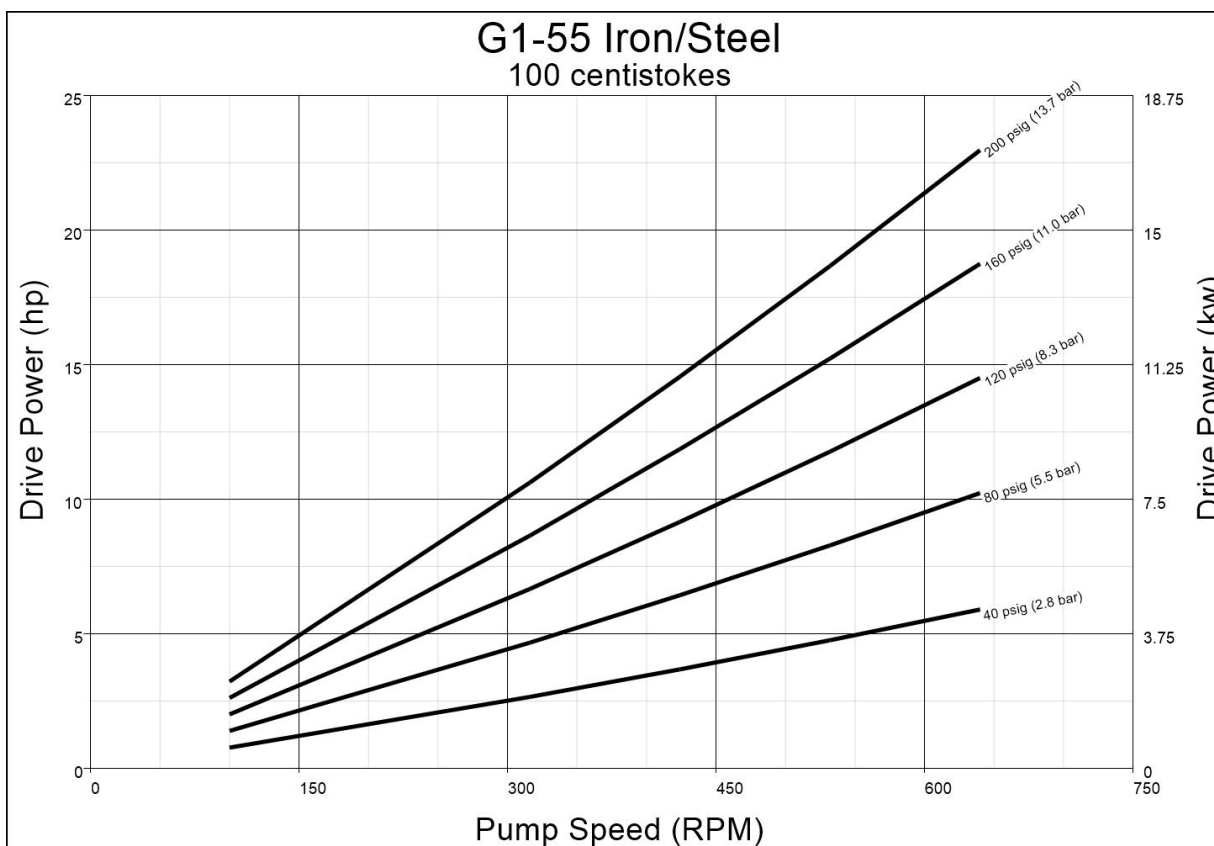
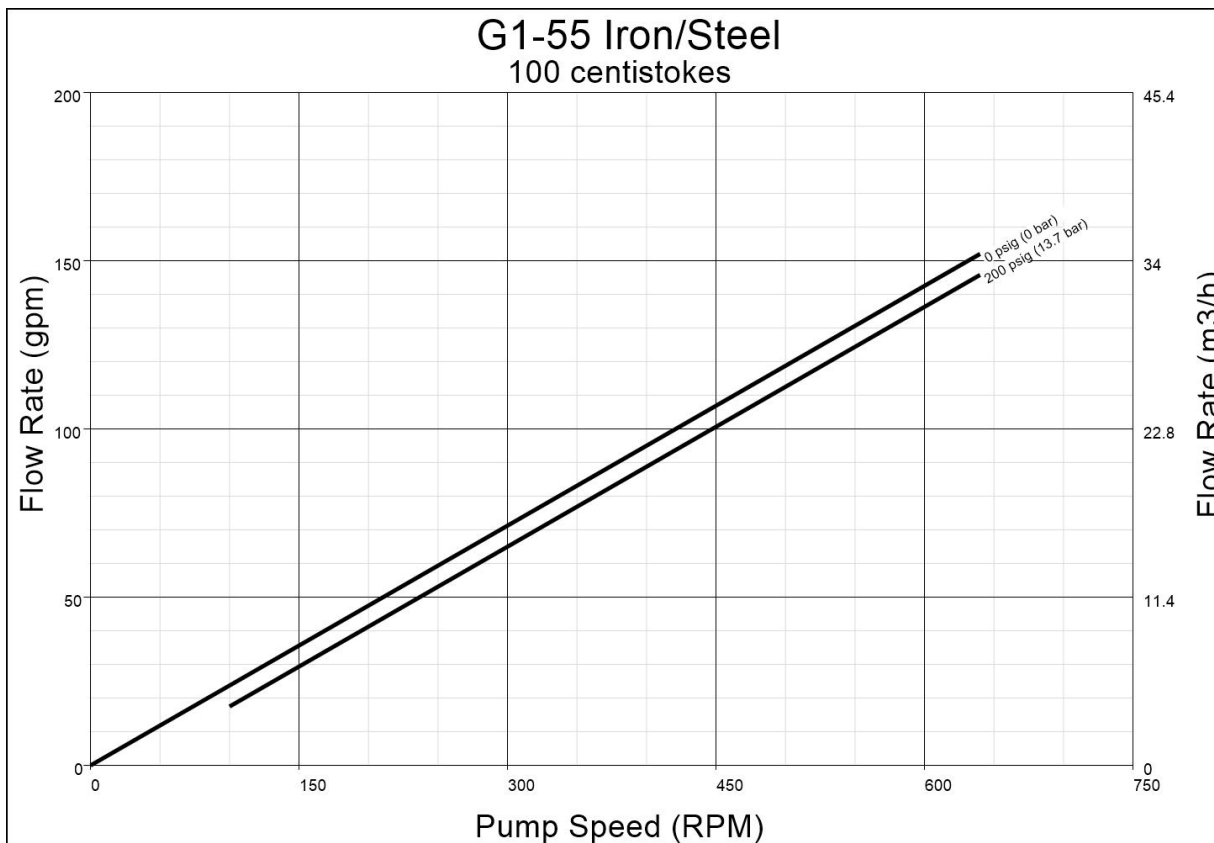
G1-55: Iron and Steel
G2-55: Iron Only

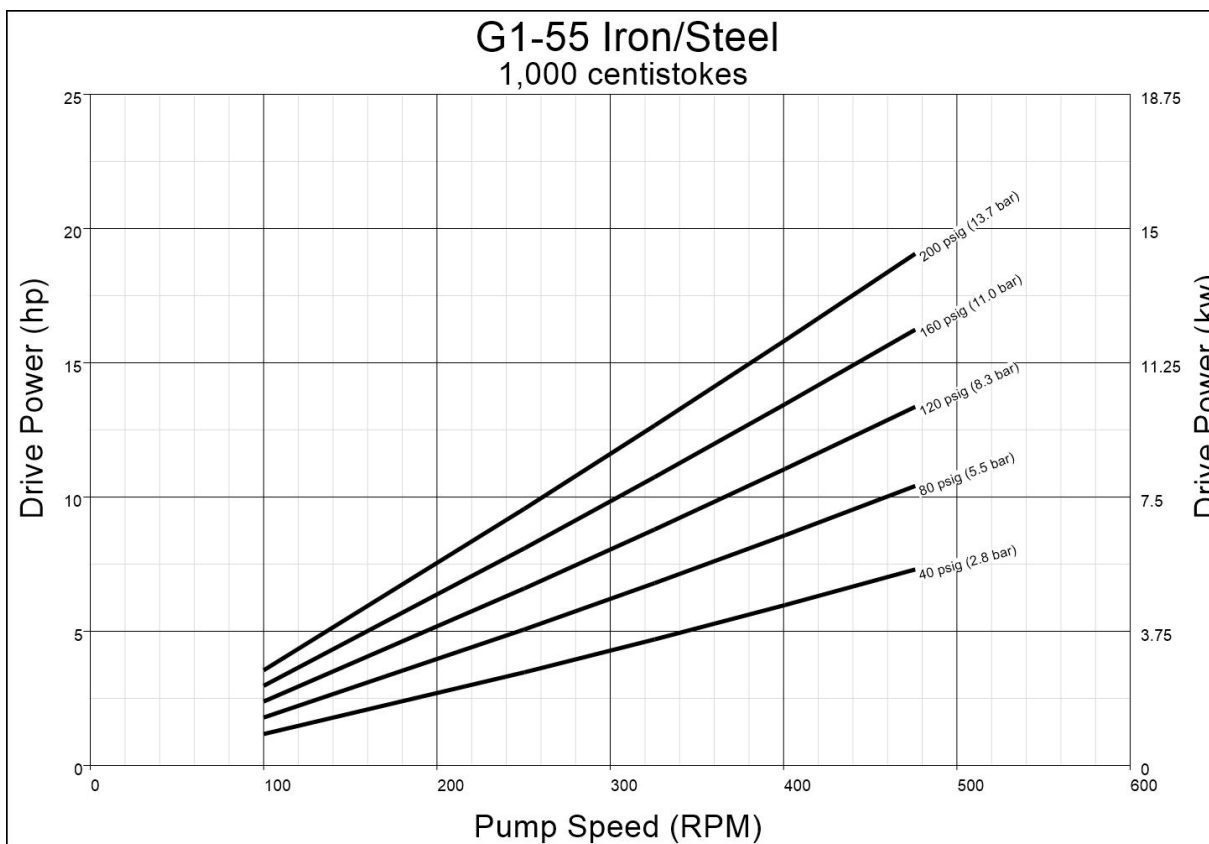
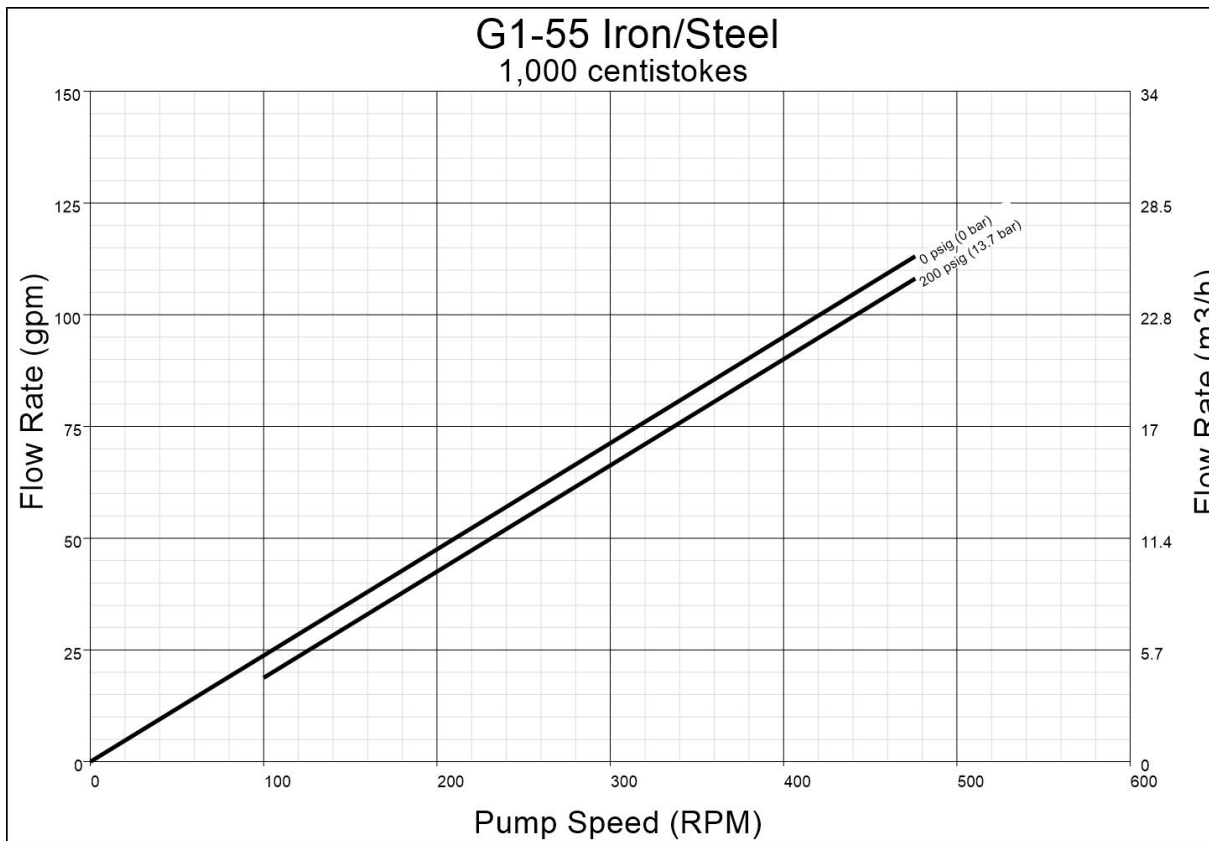


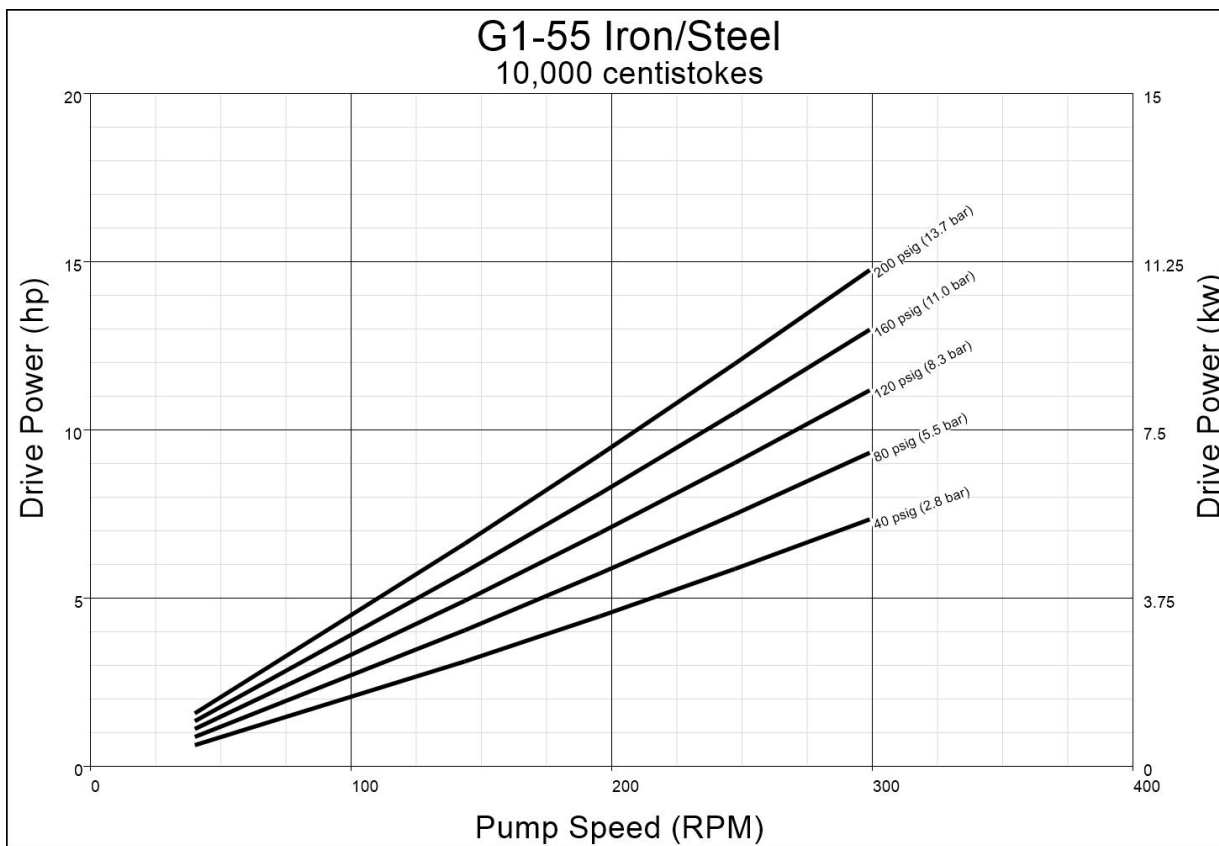
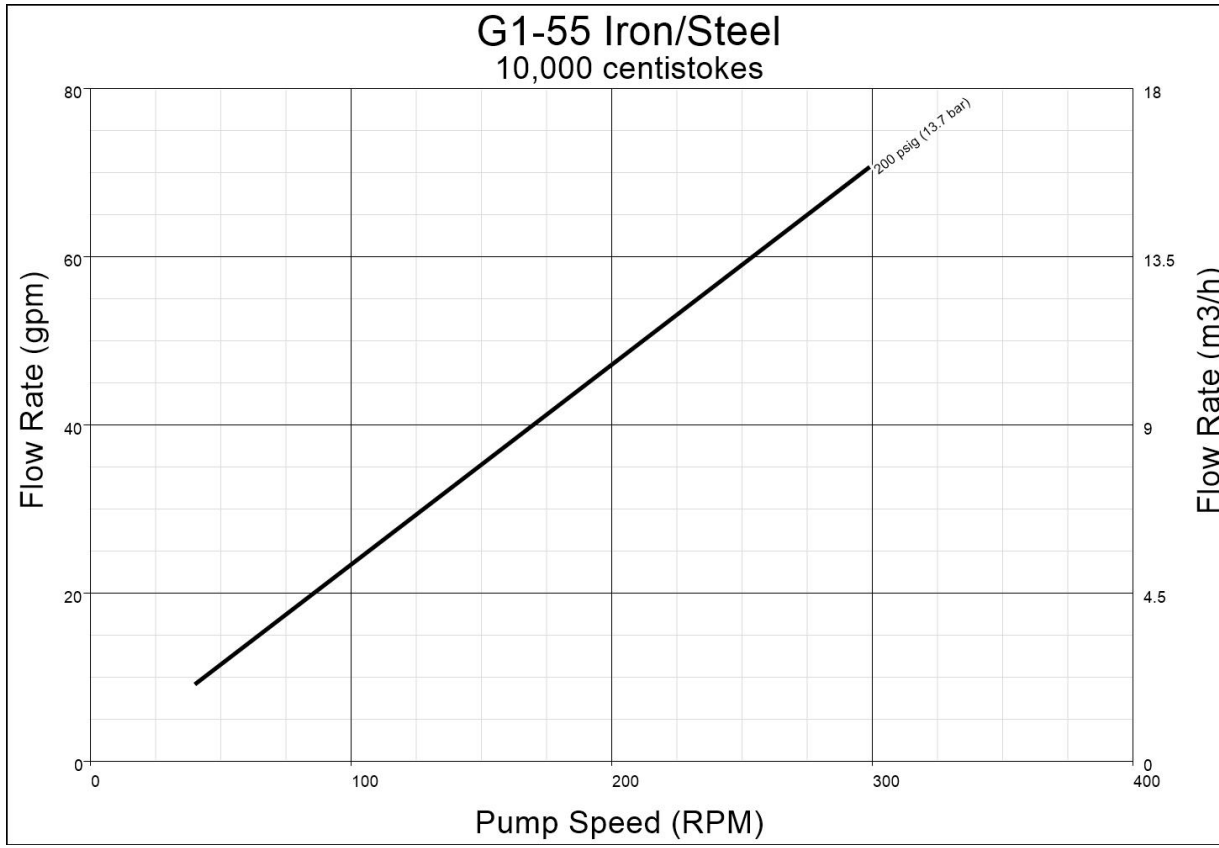


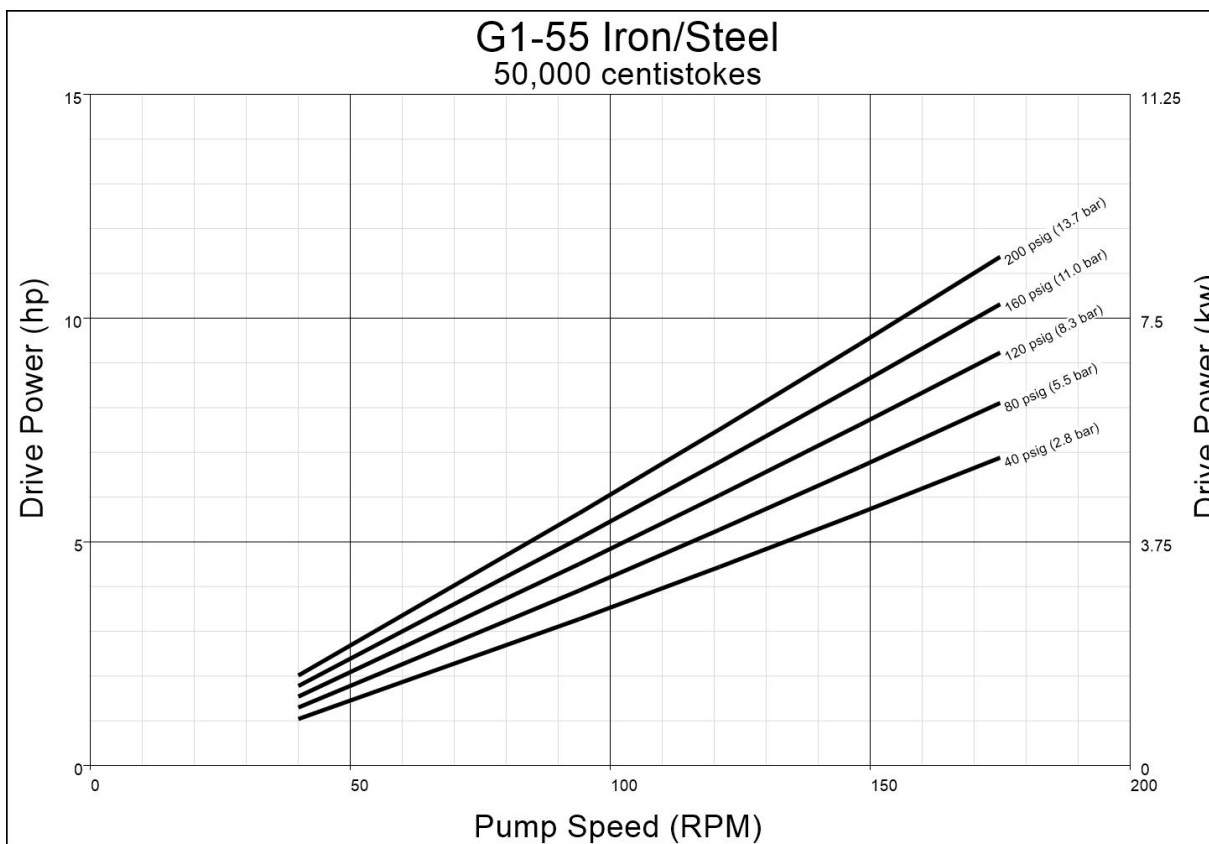
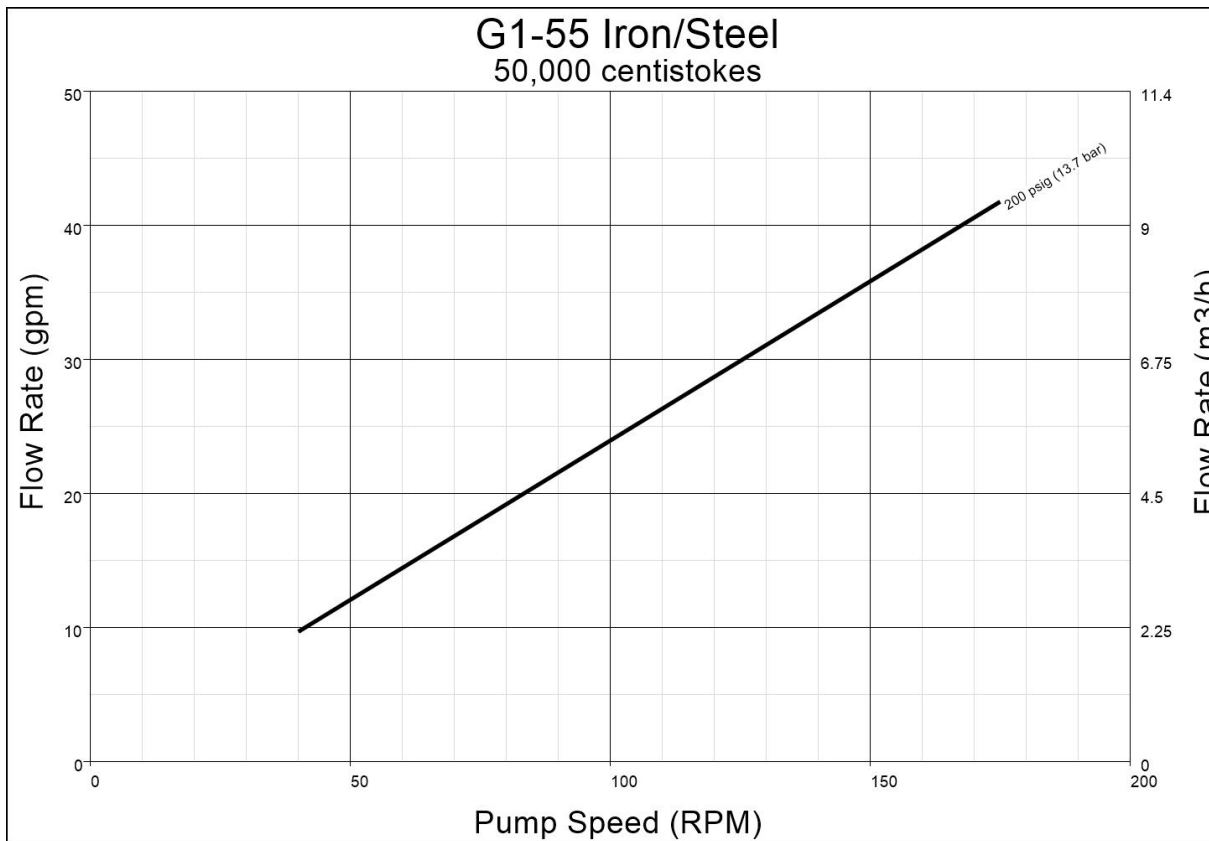
G1-55: Iron and Steel
G2-55: Iron Only

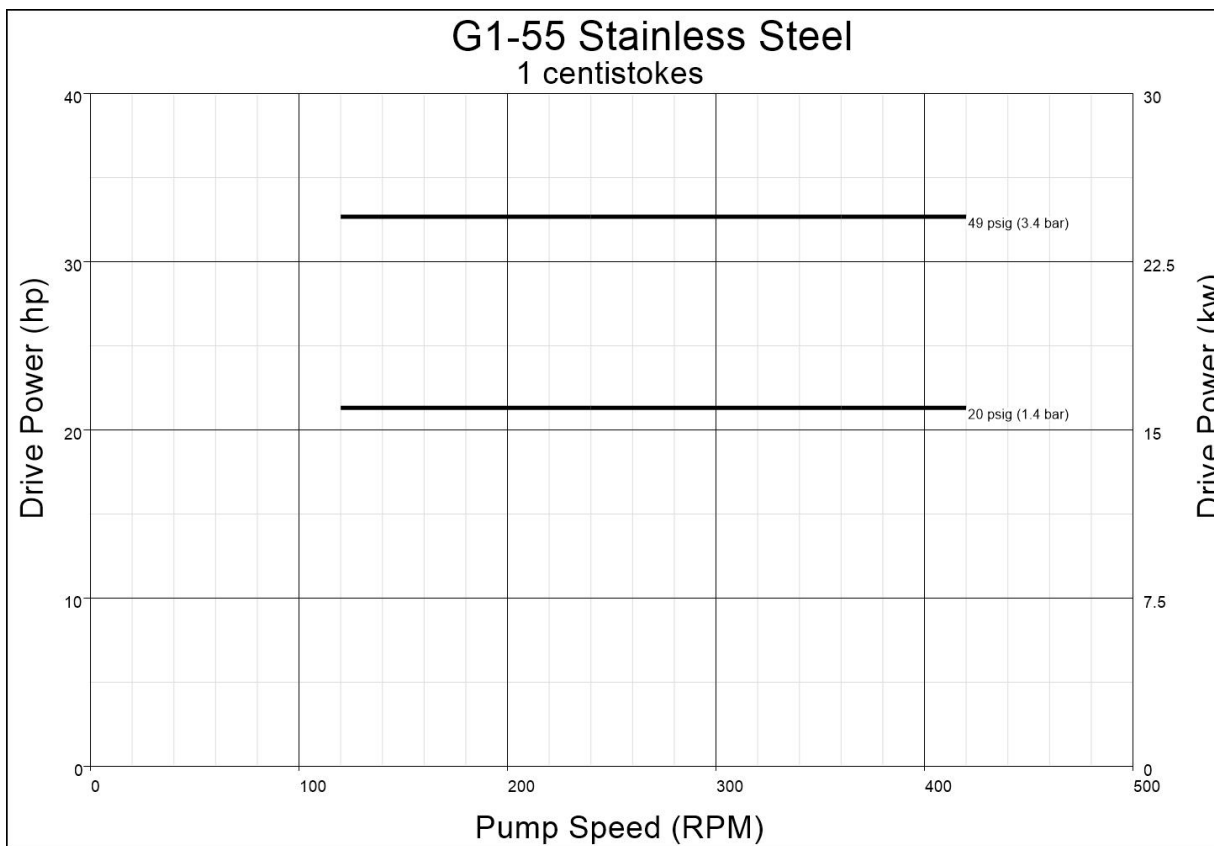
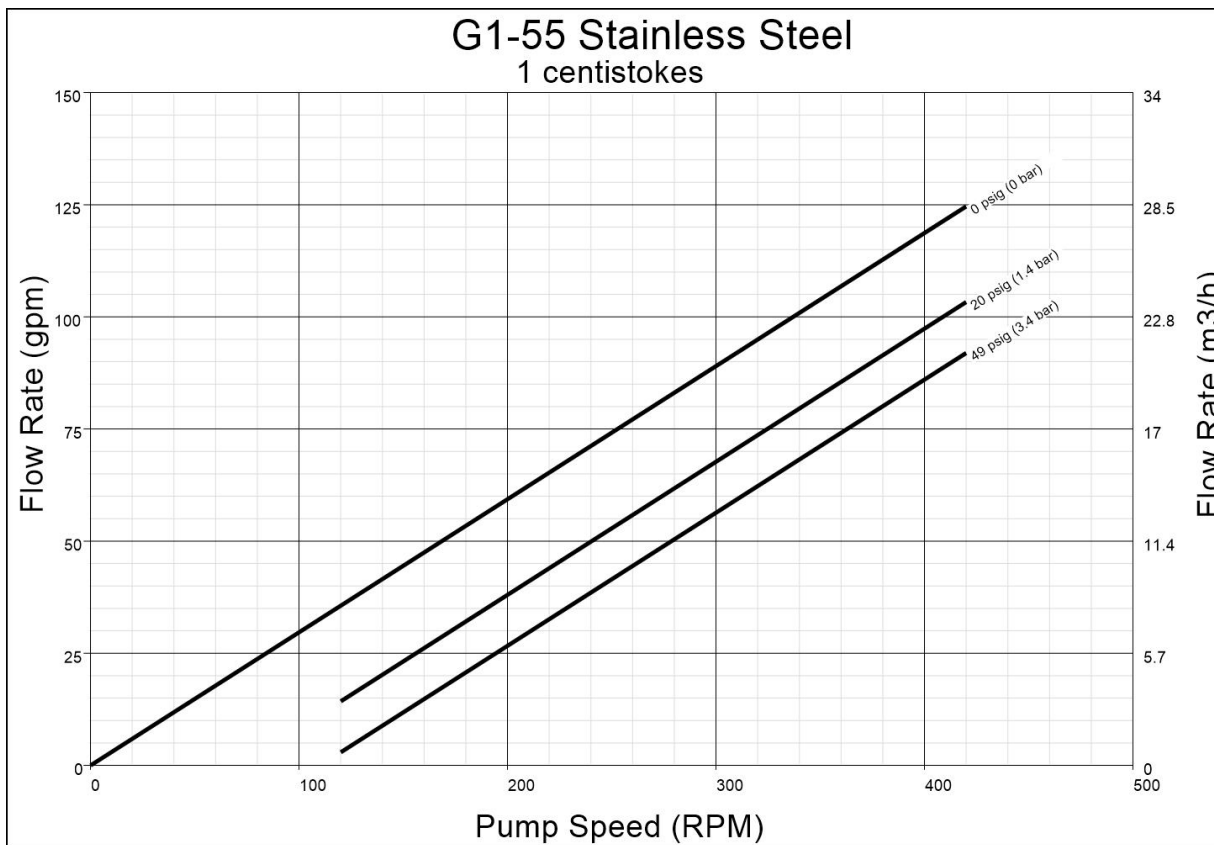


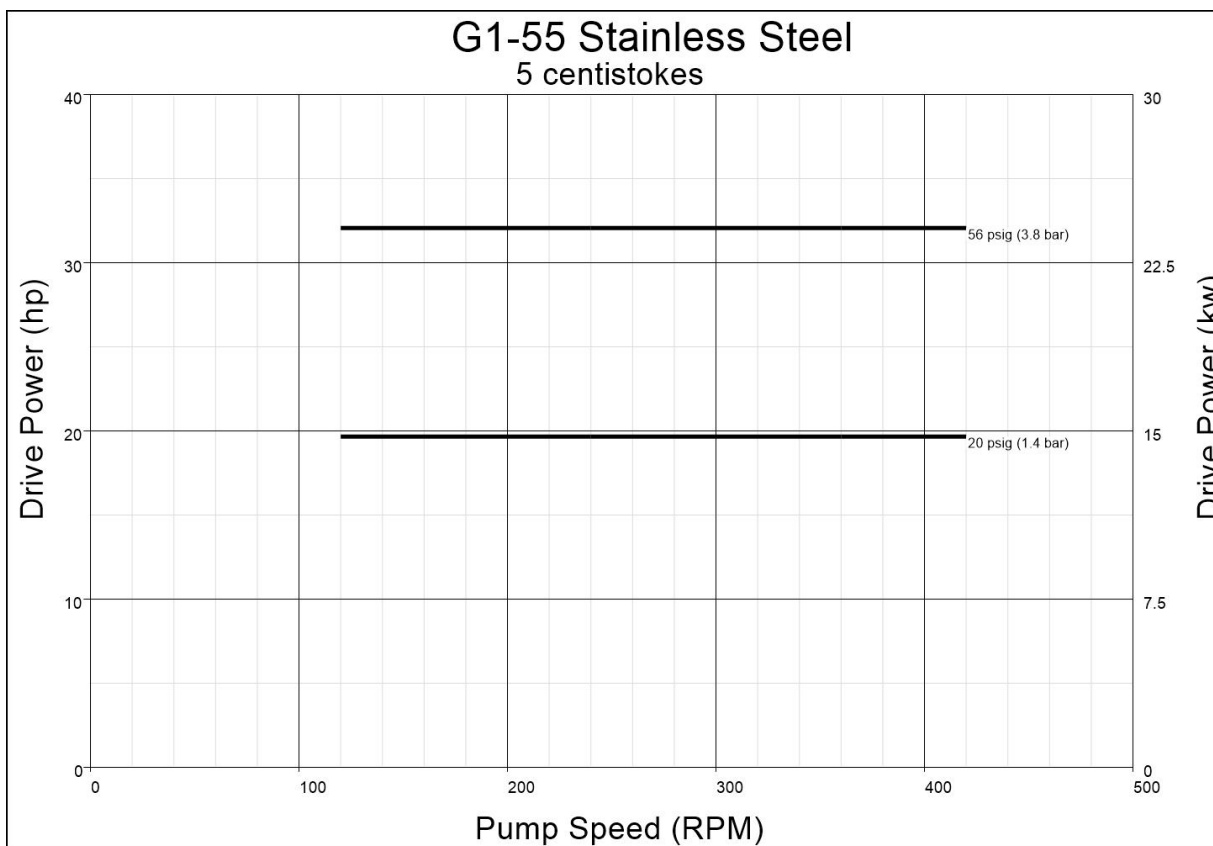
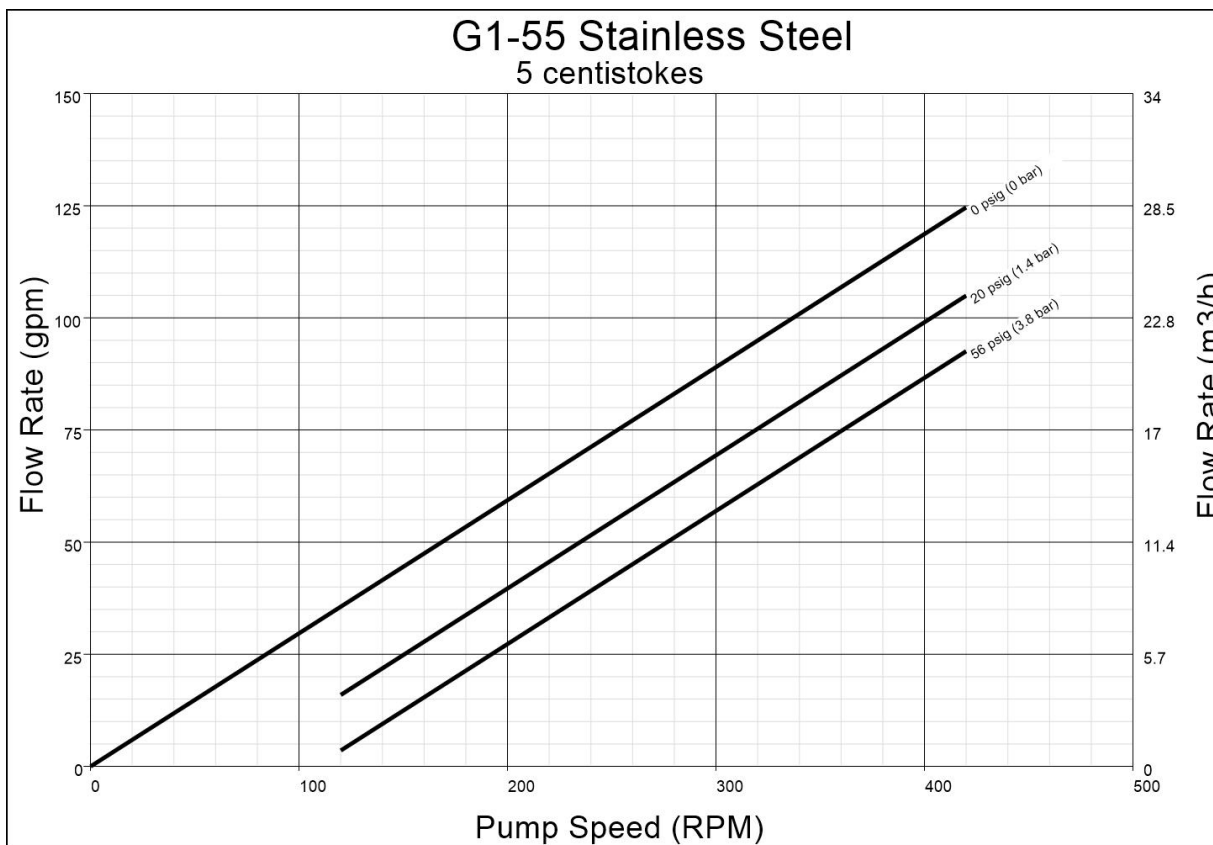


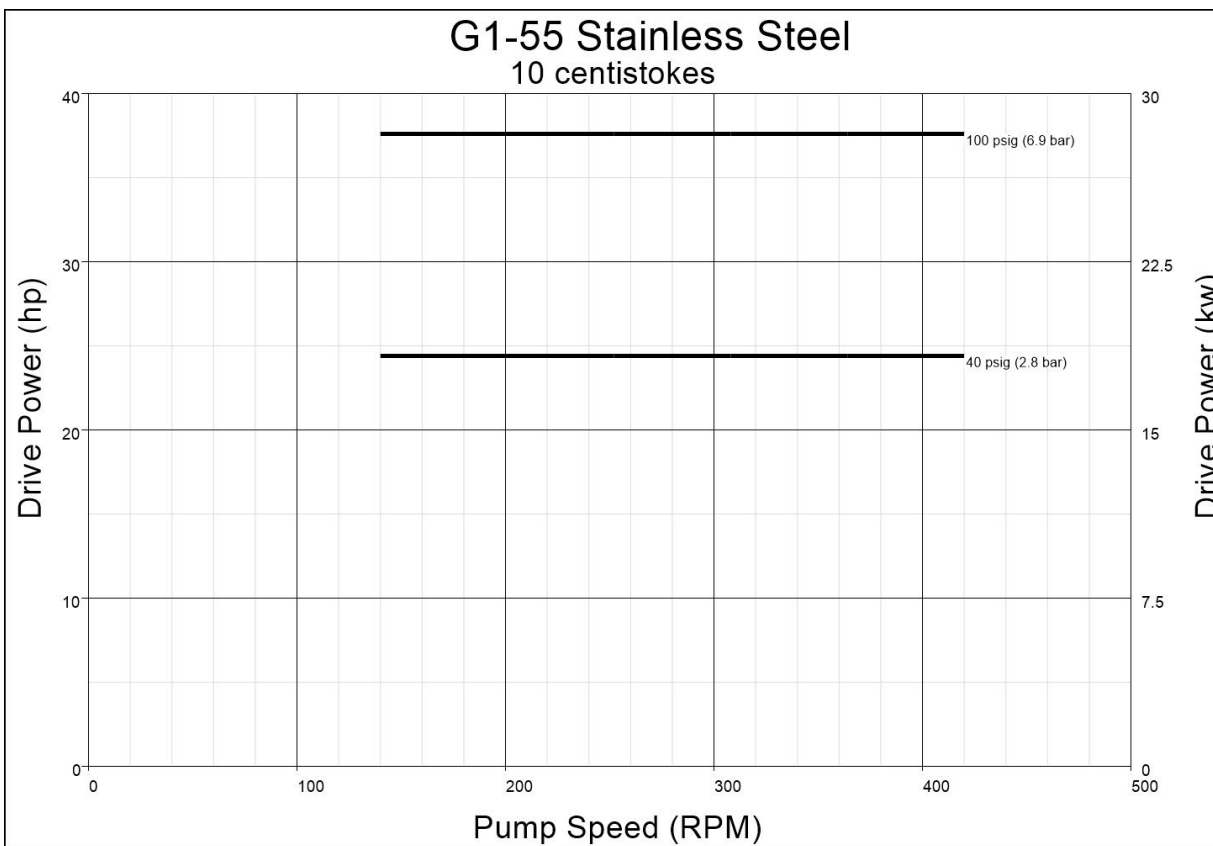
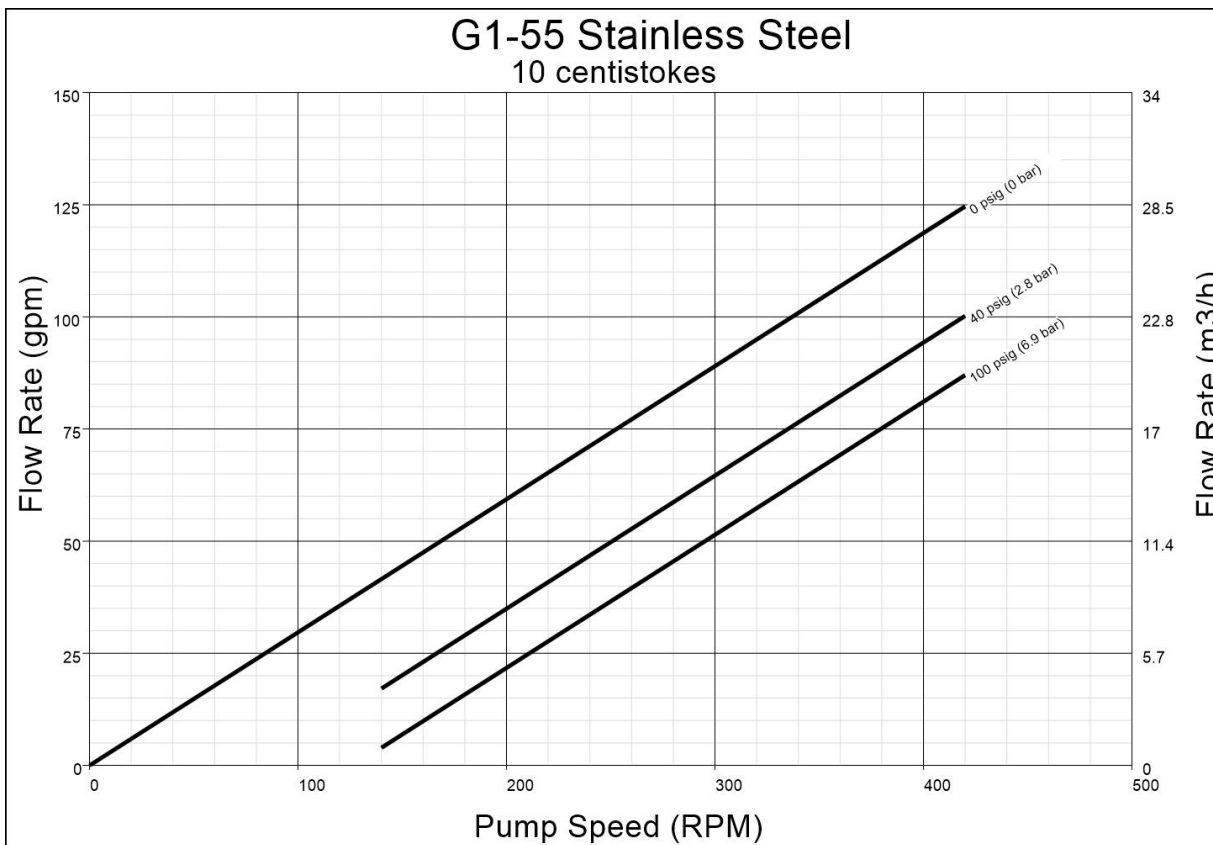


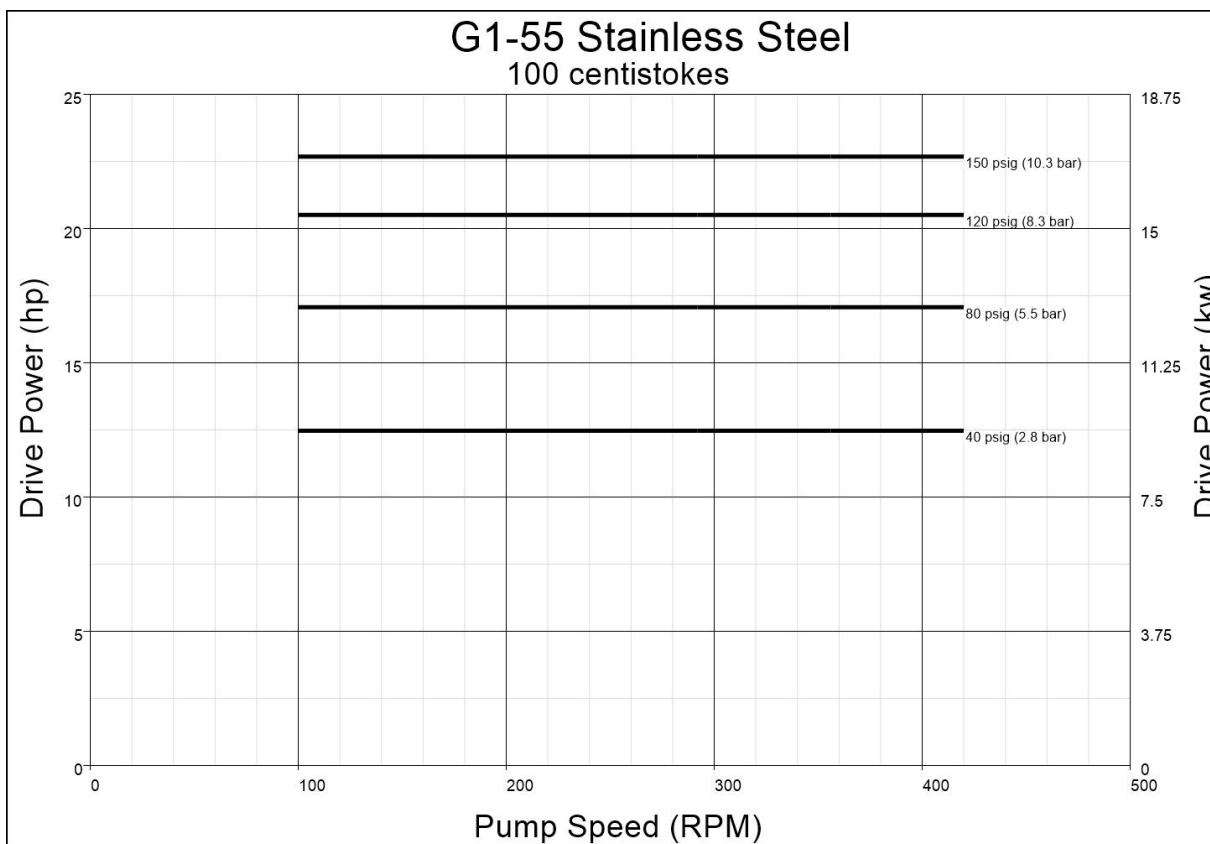
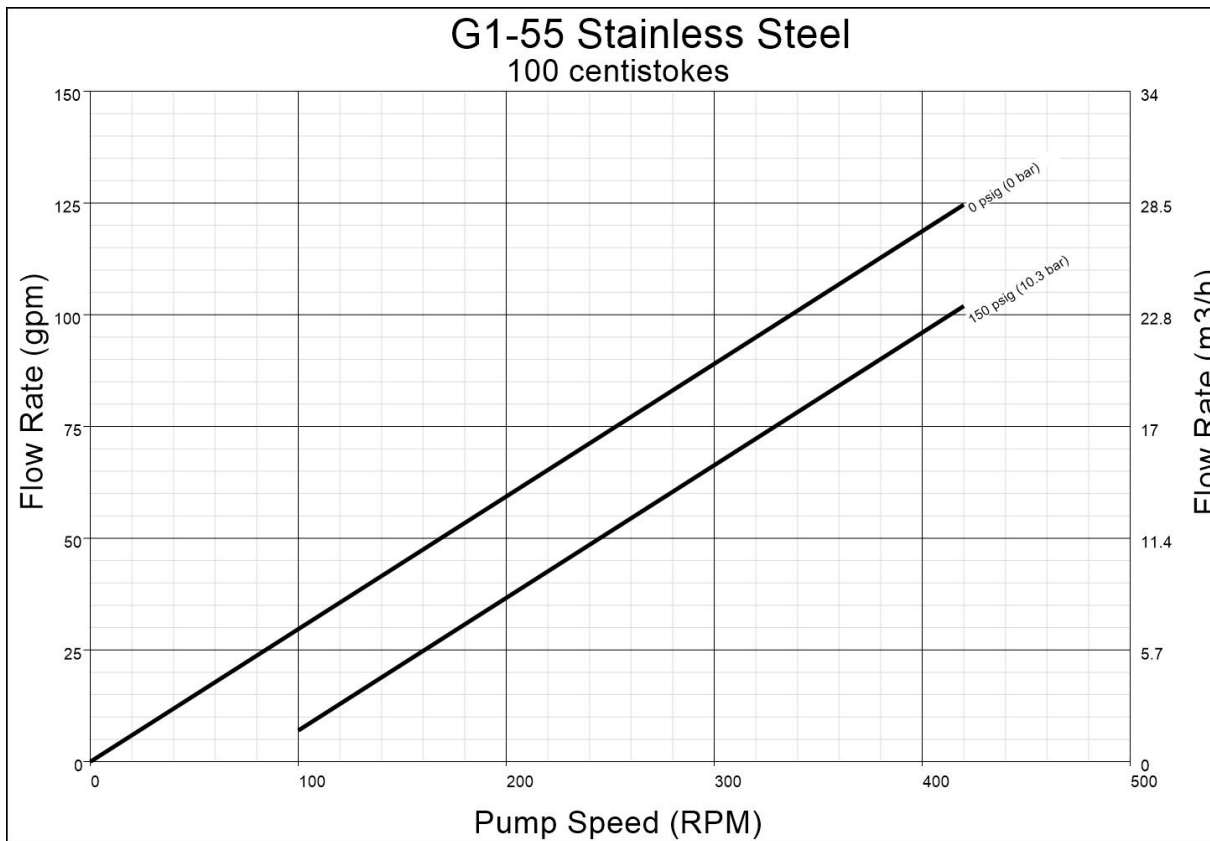


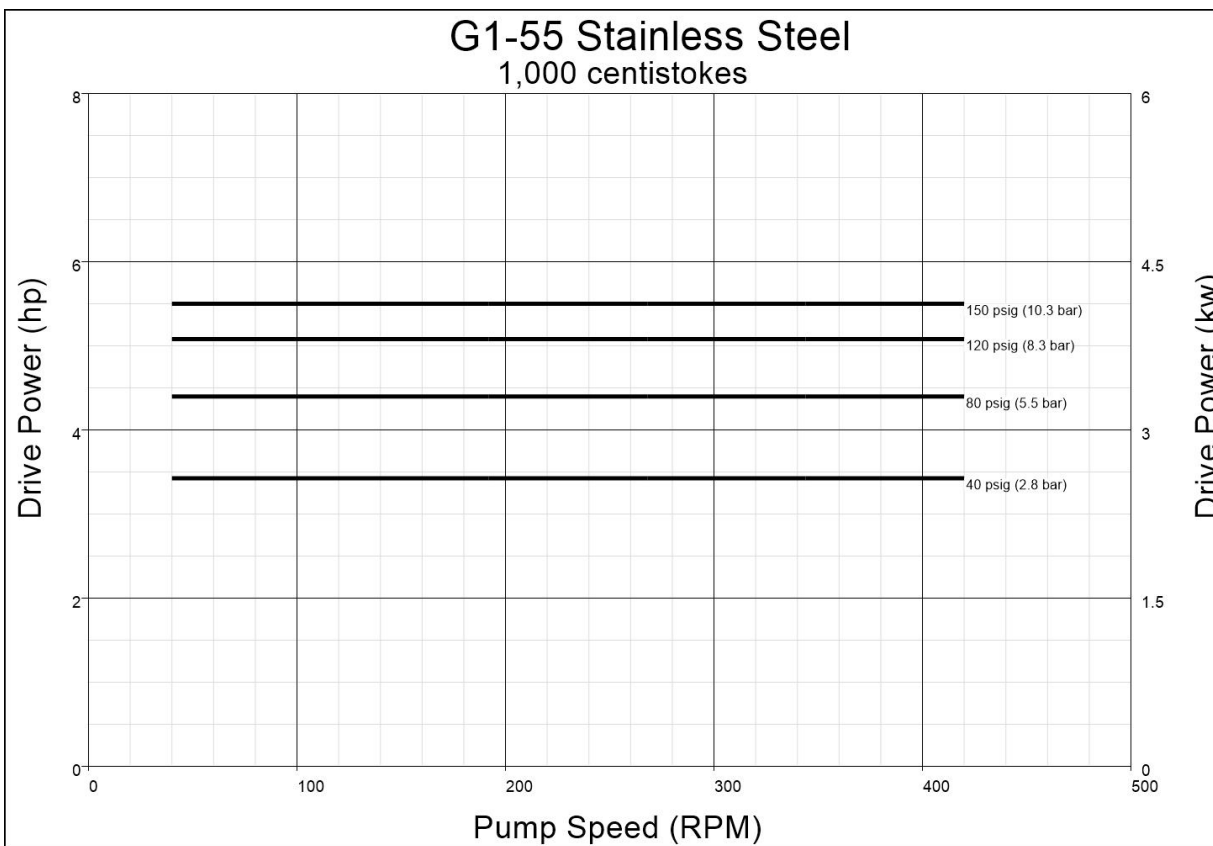
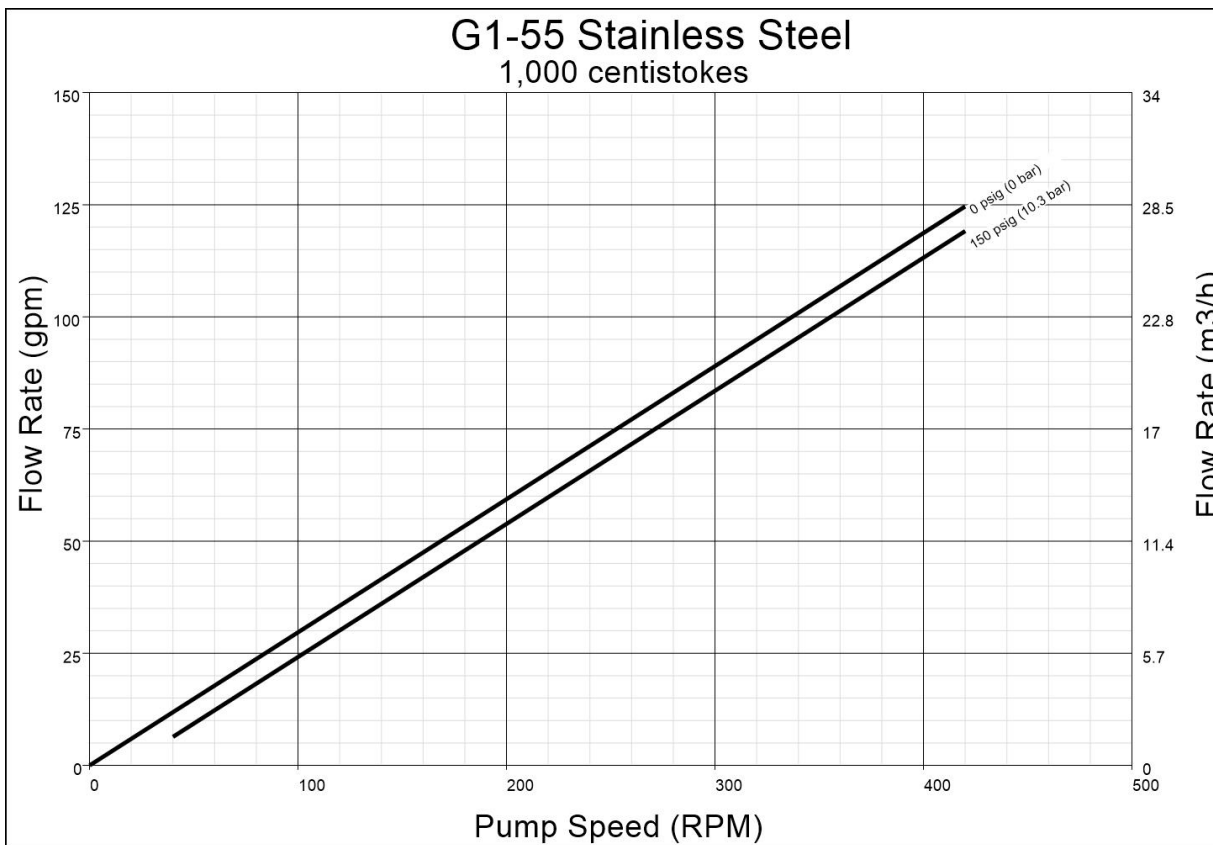


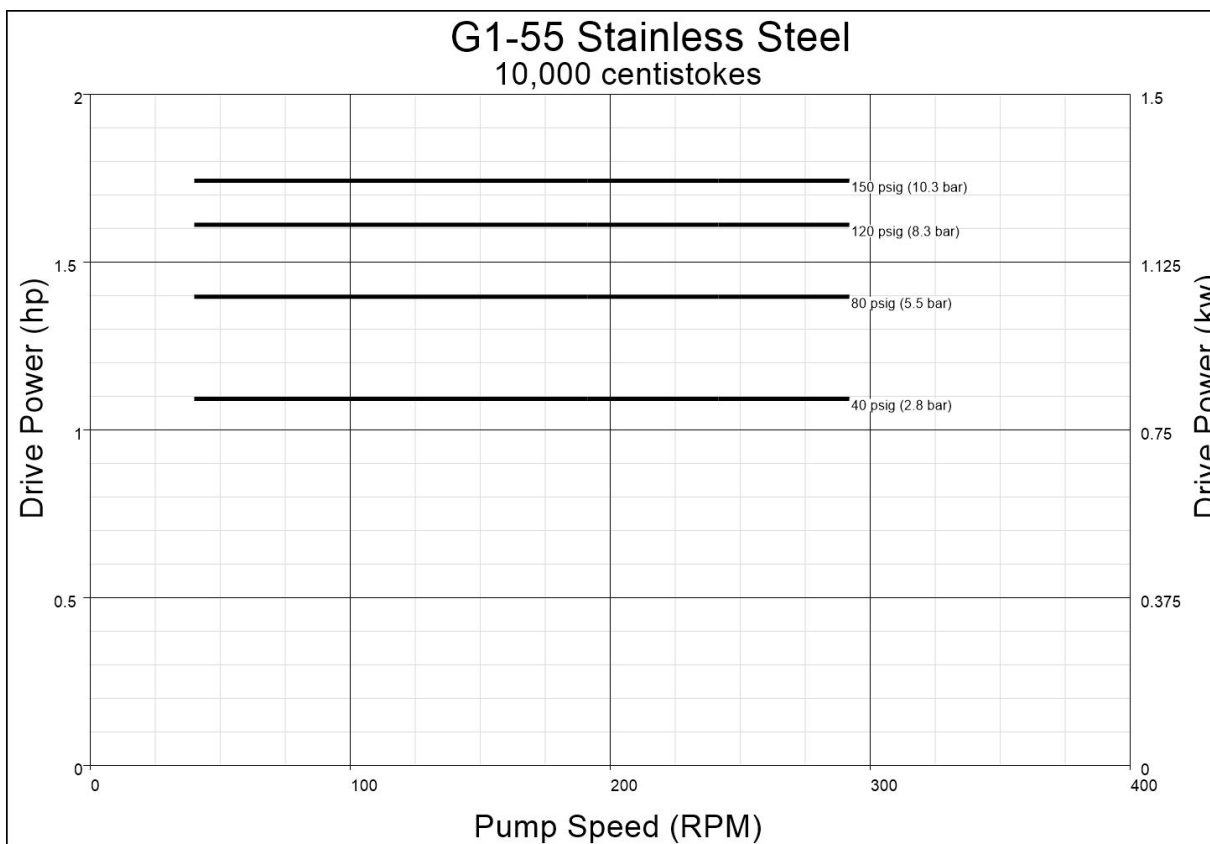
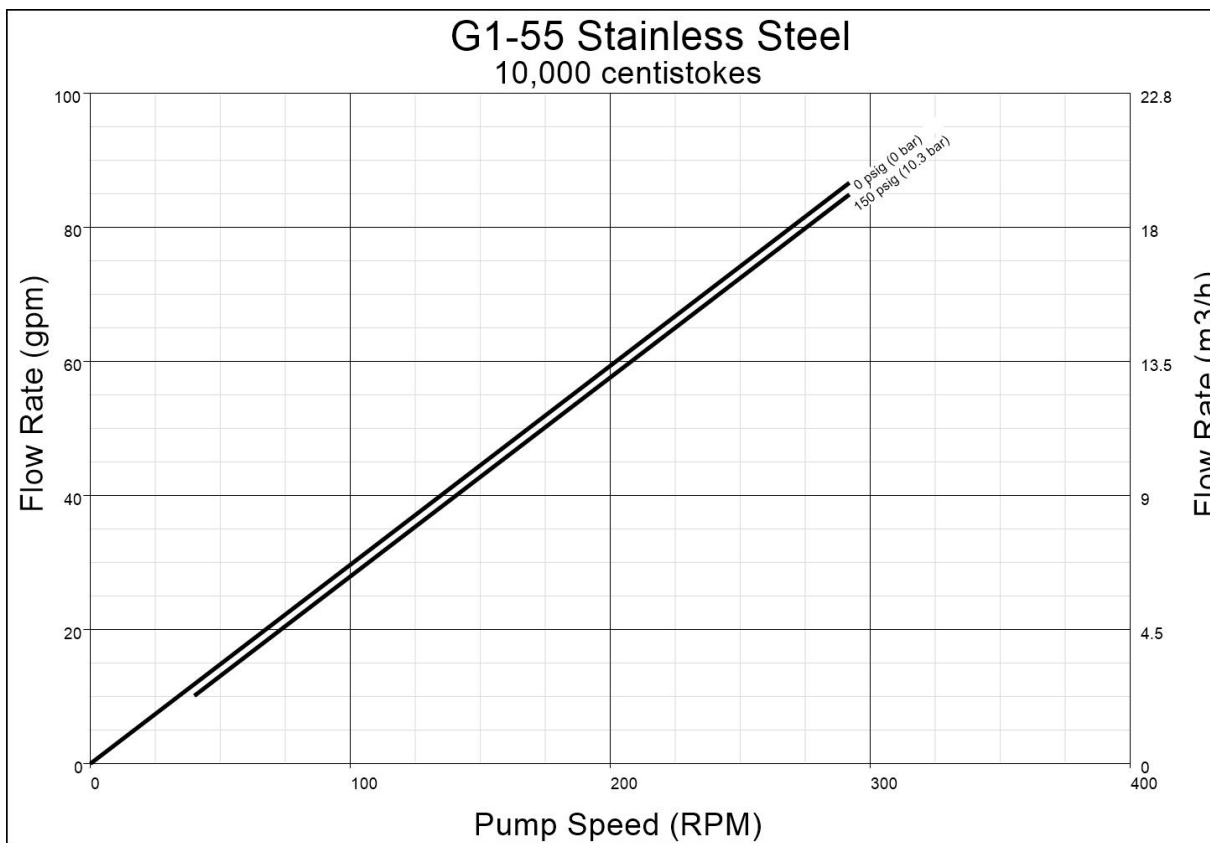


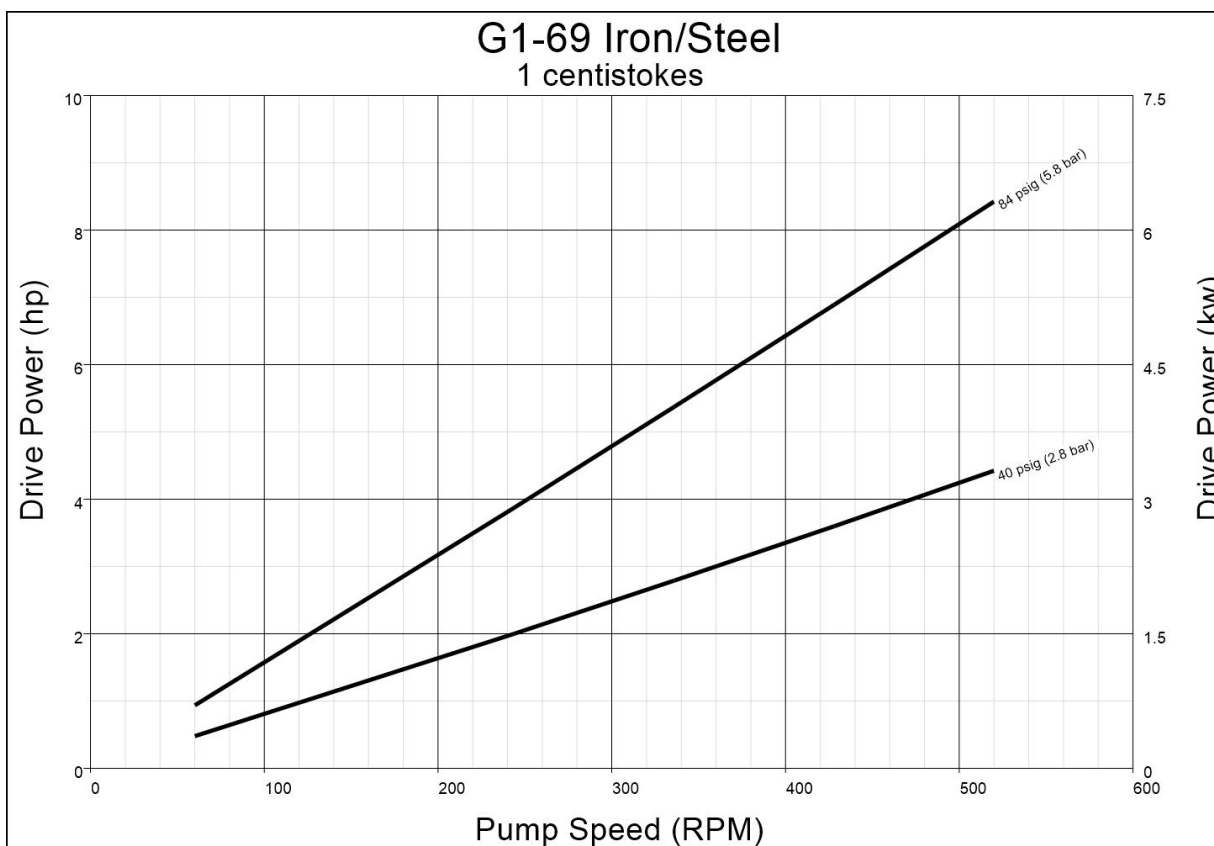
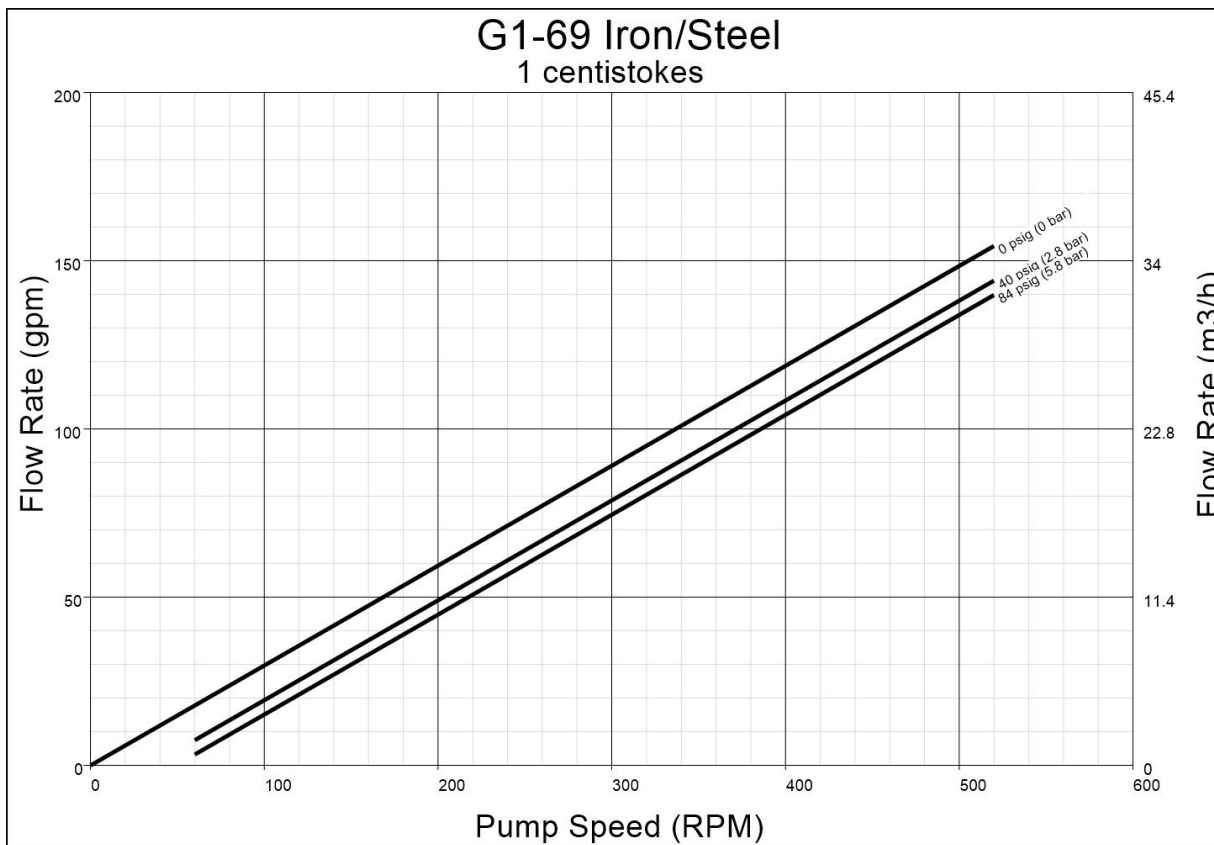


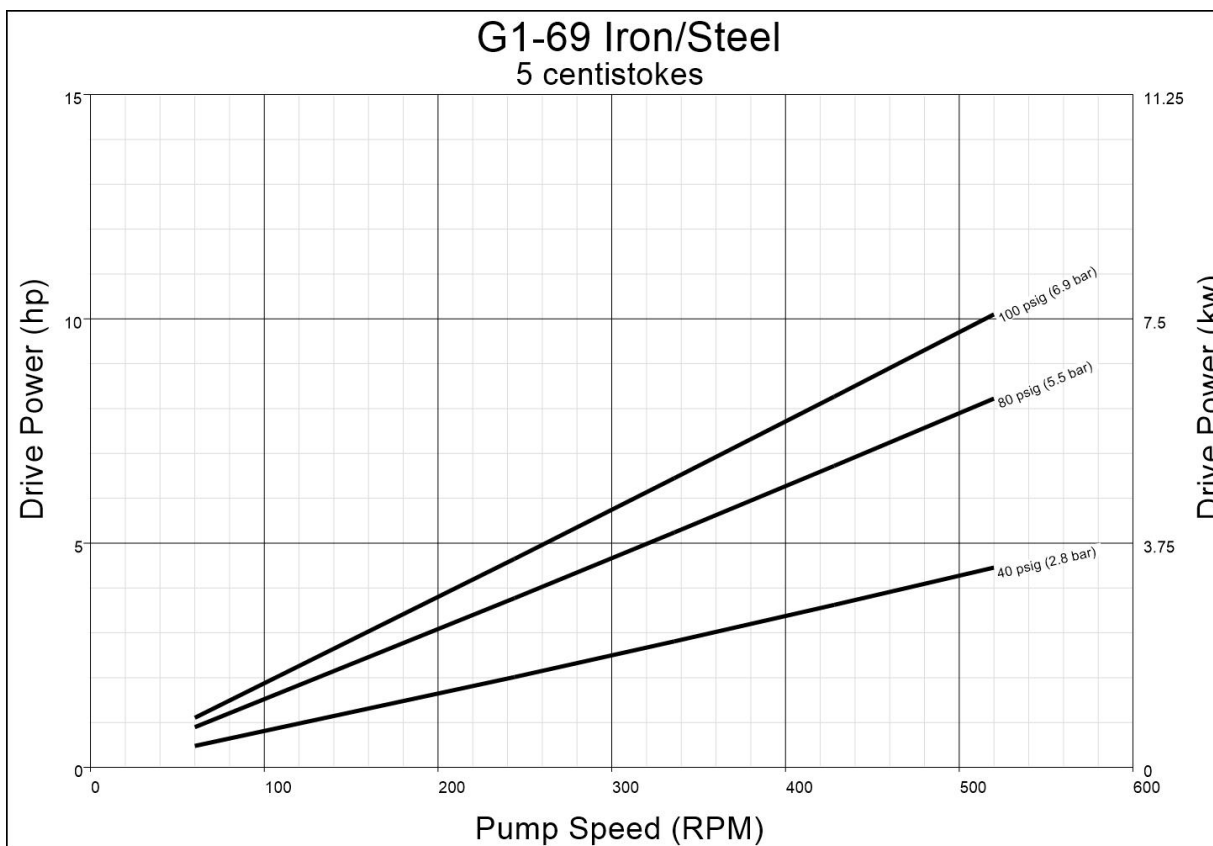
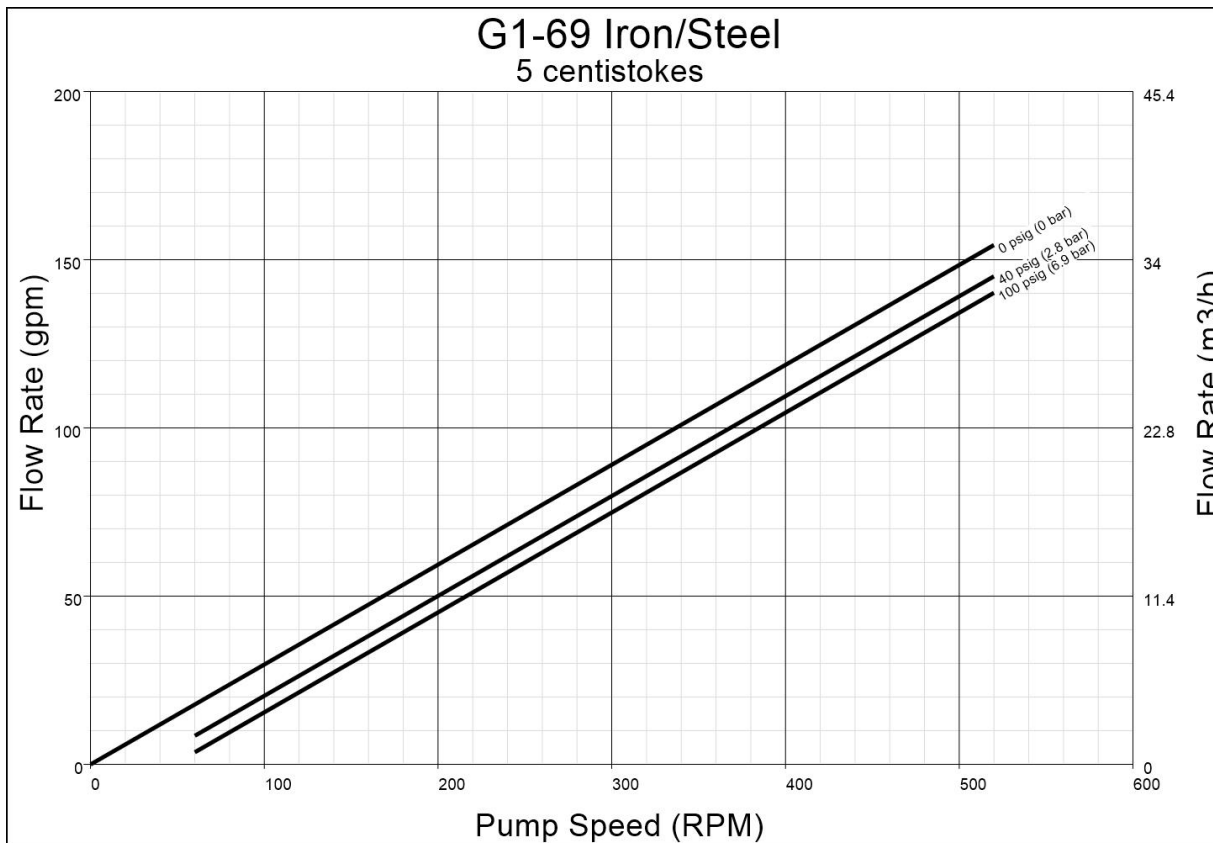


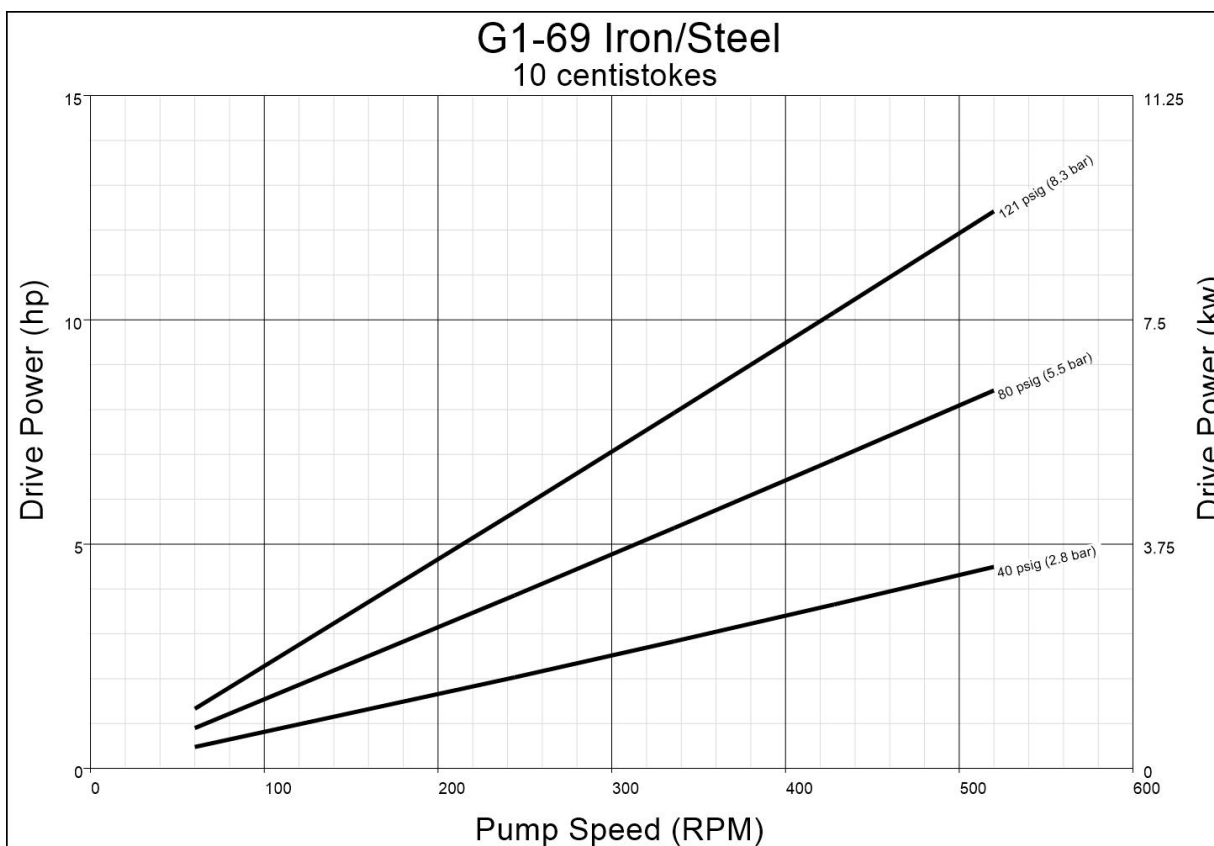
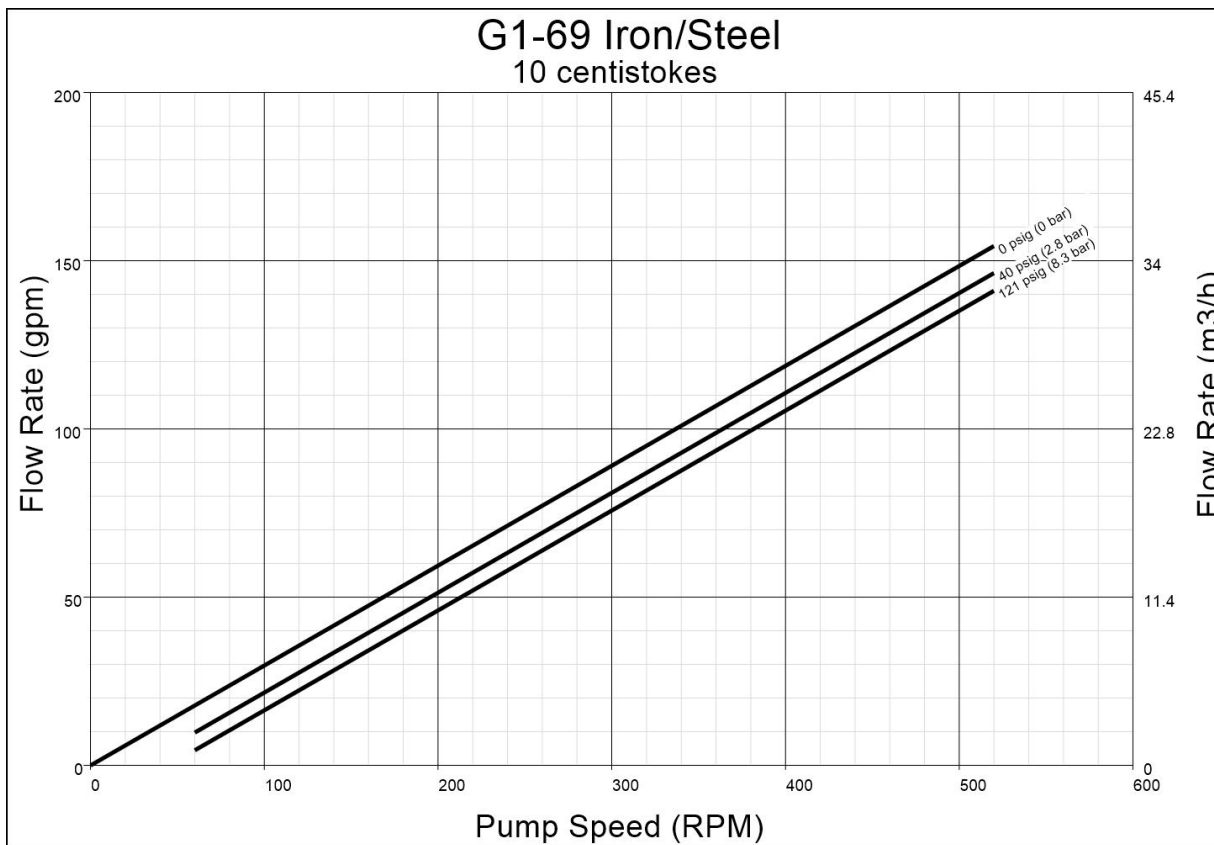


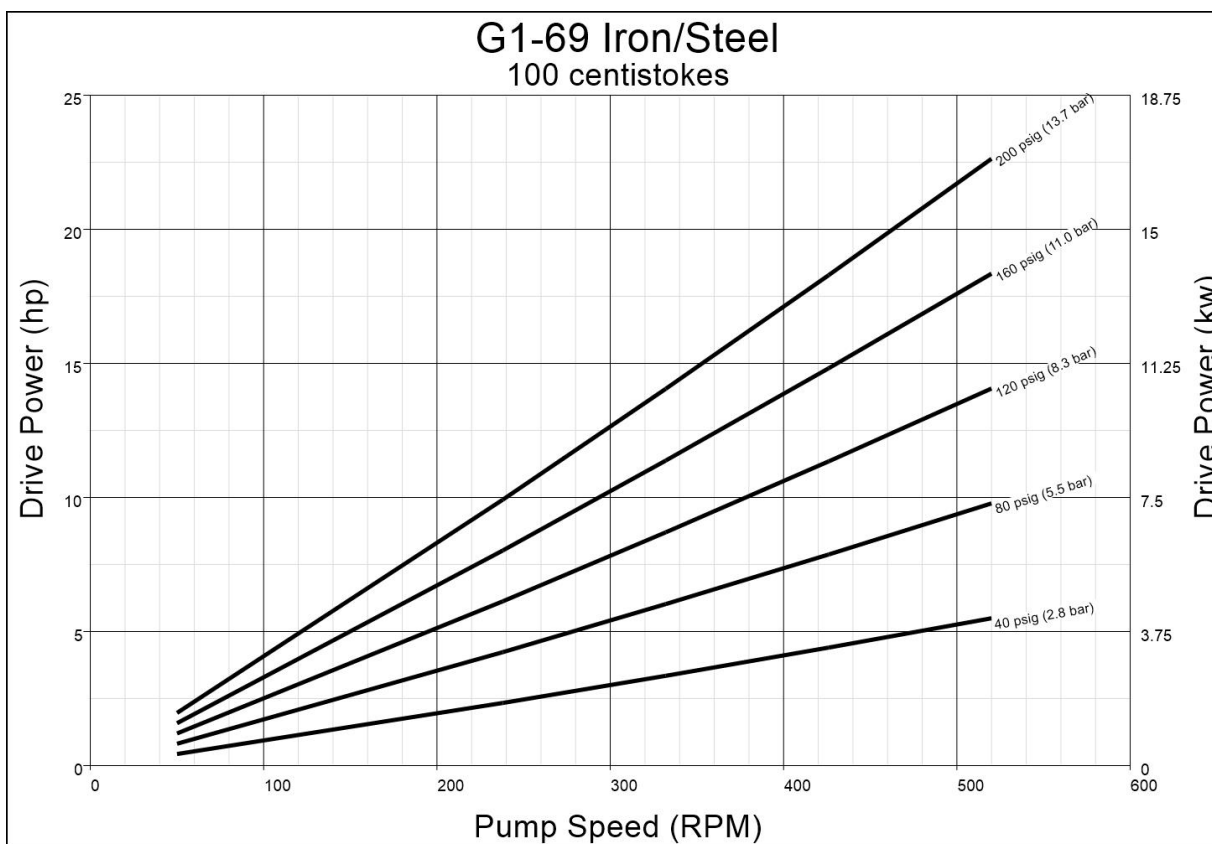
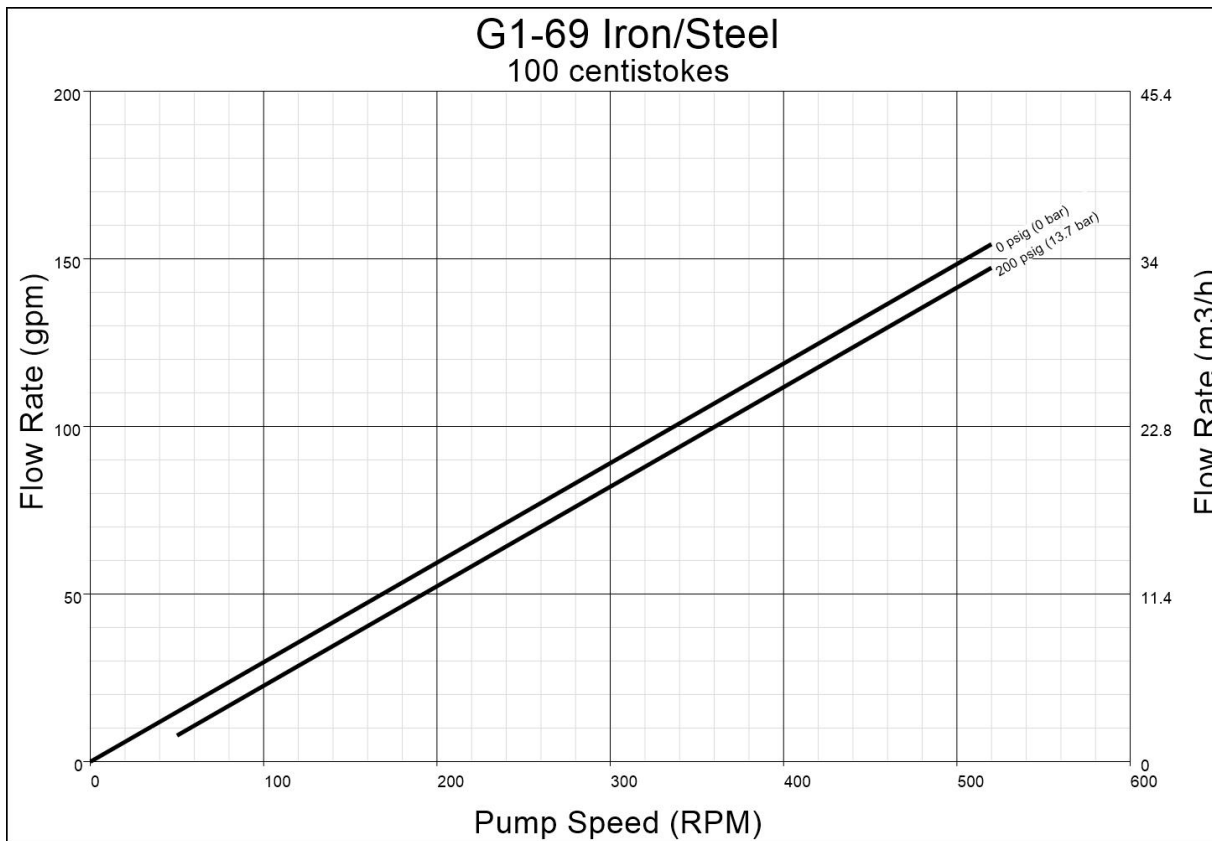


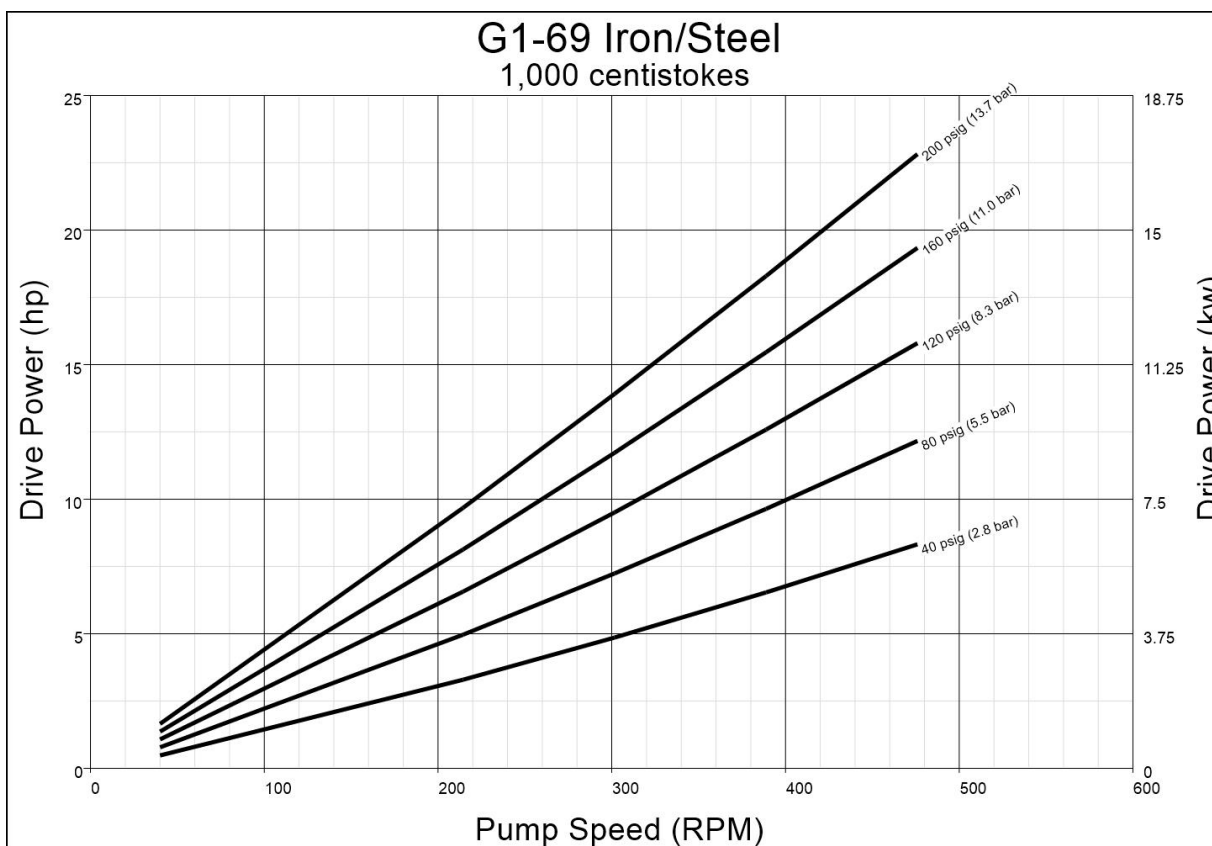
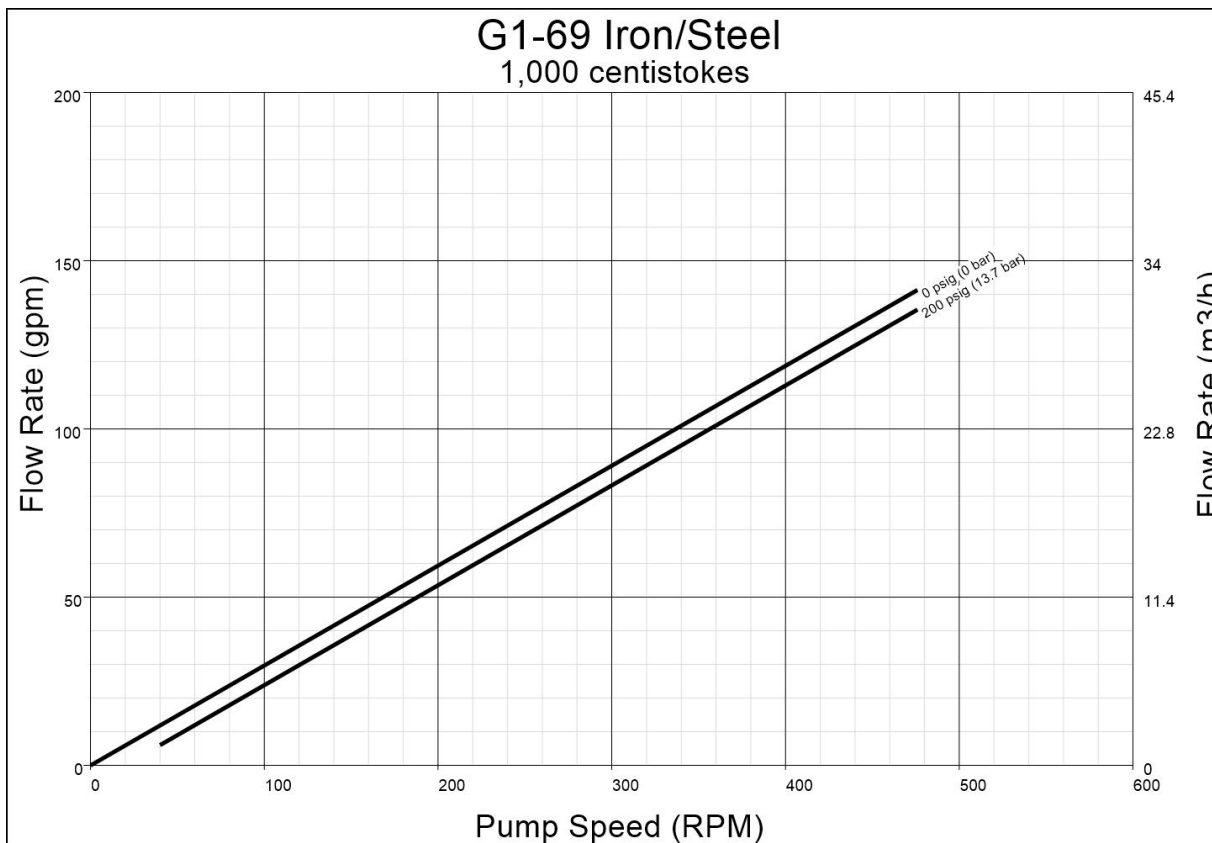


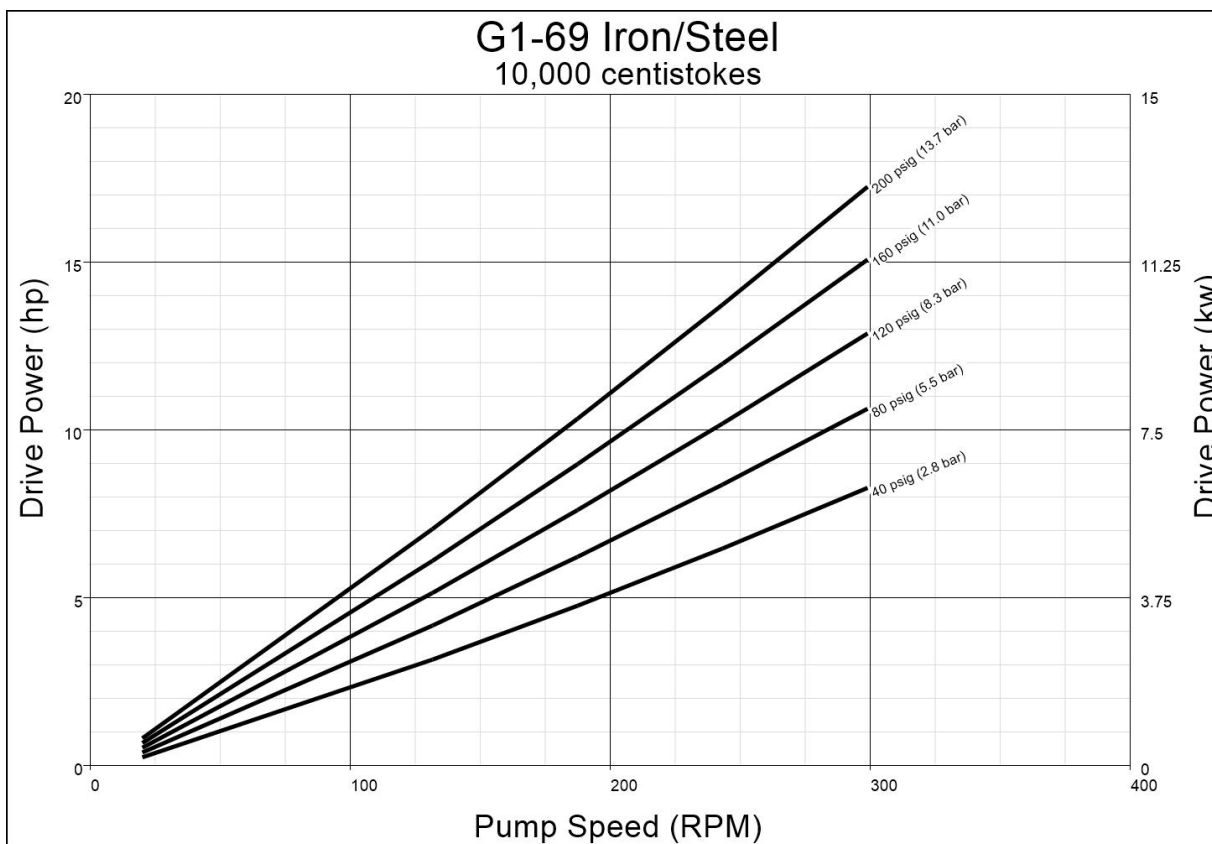
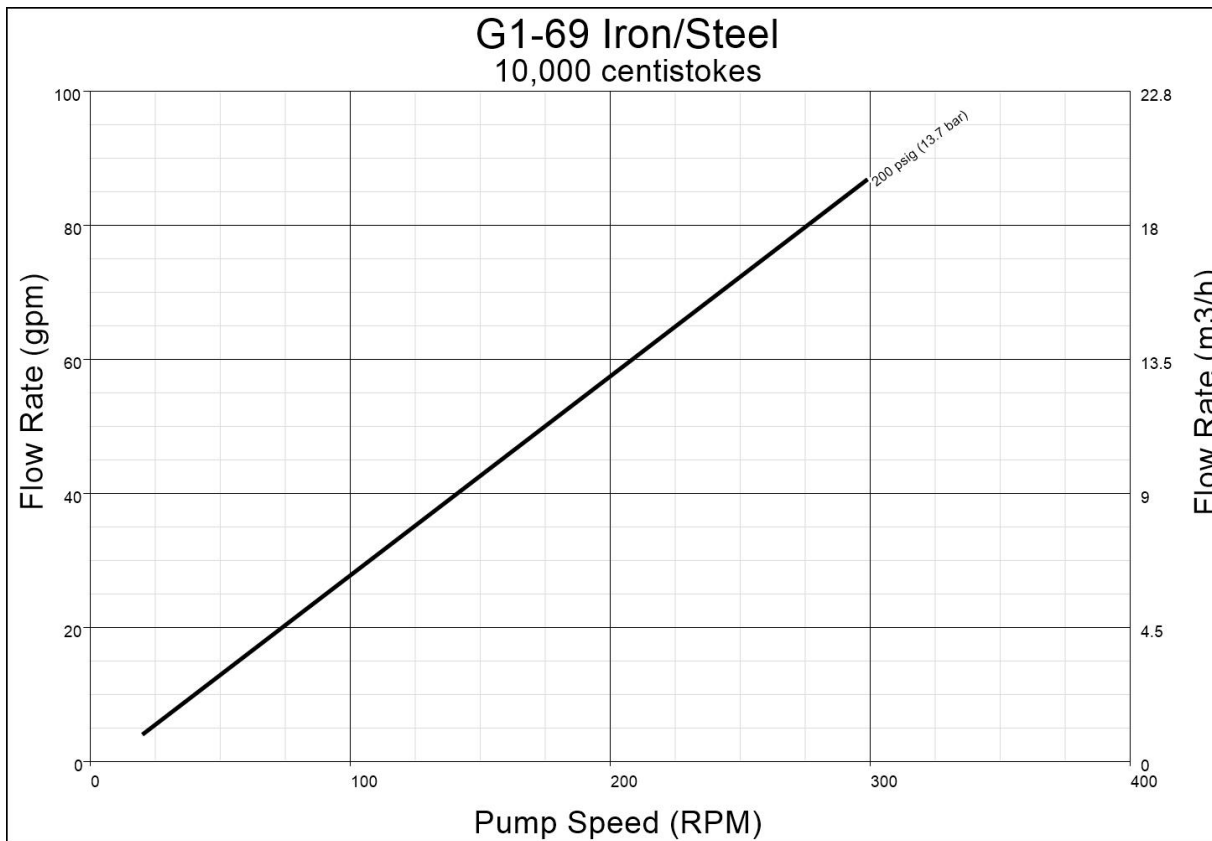


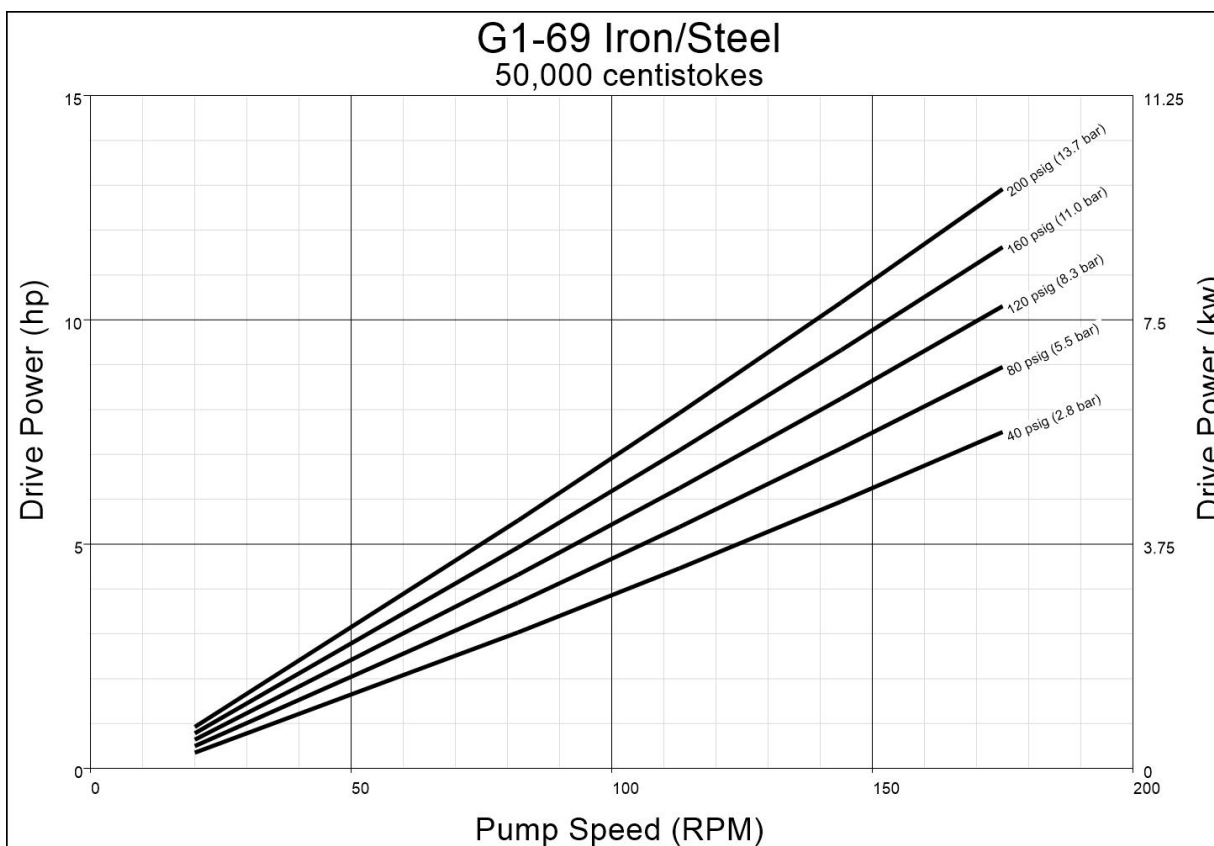
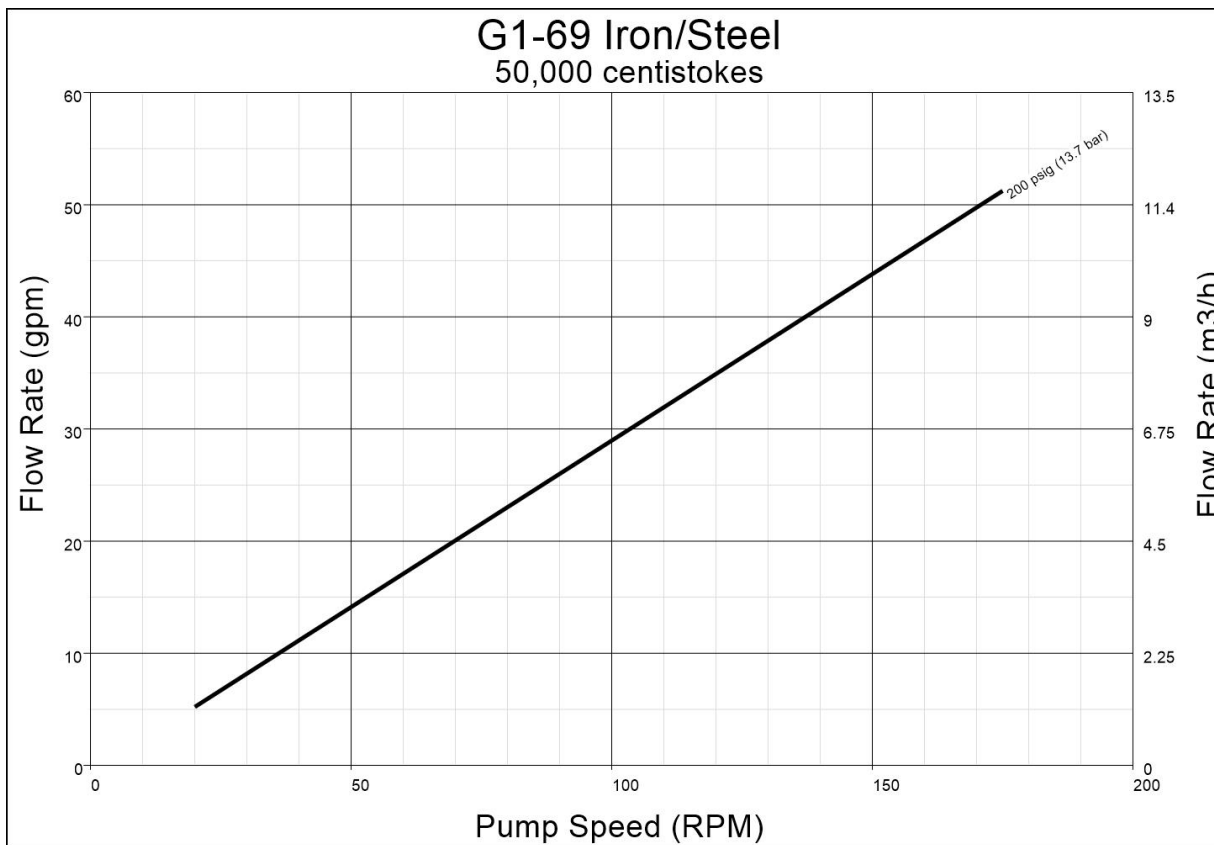


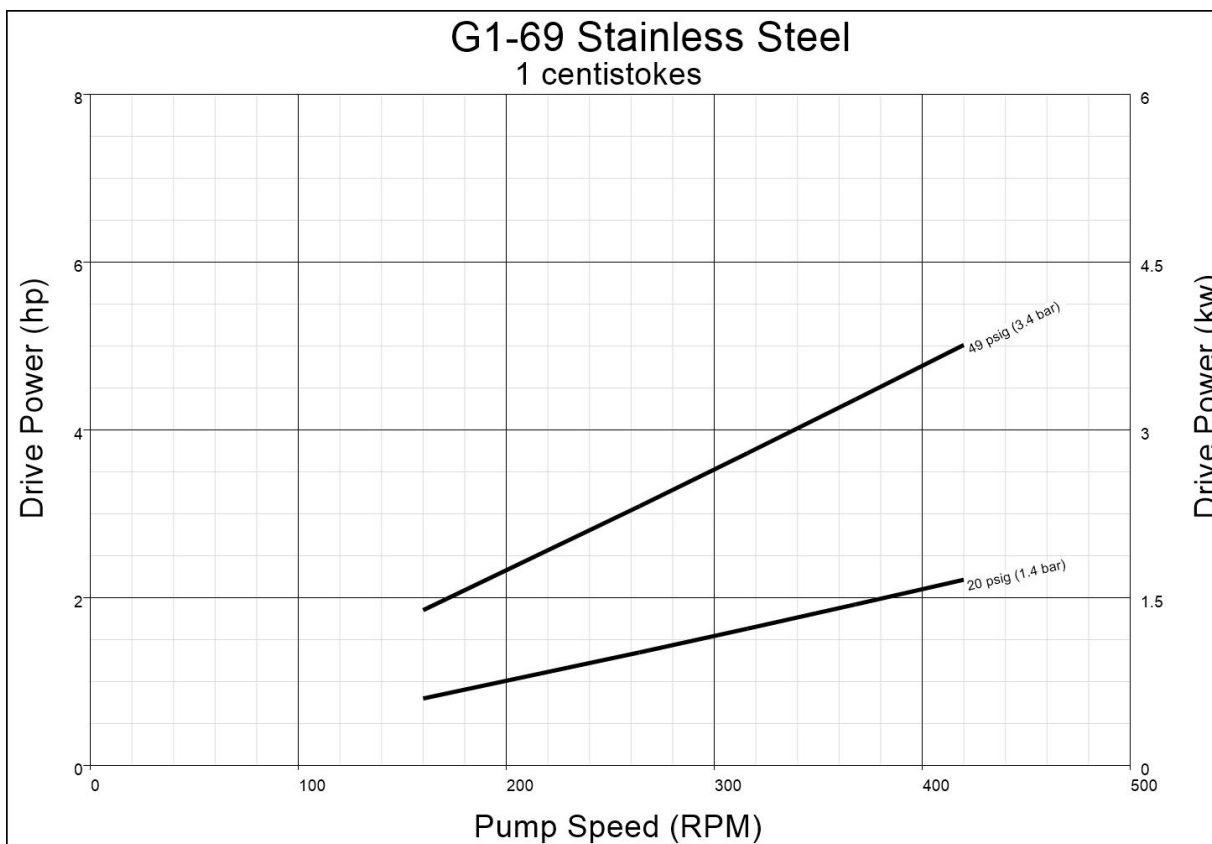
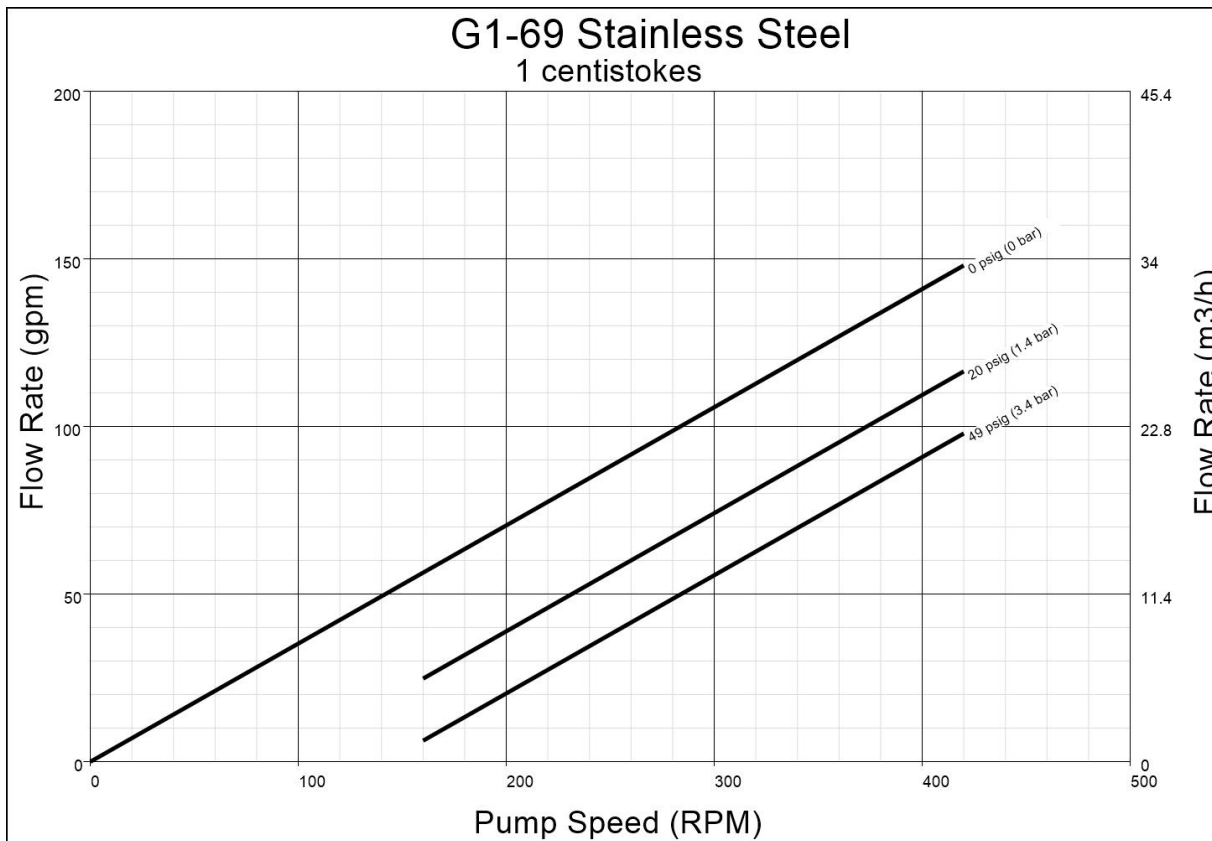


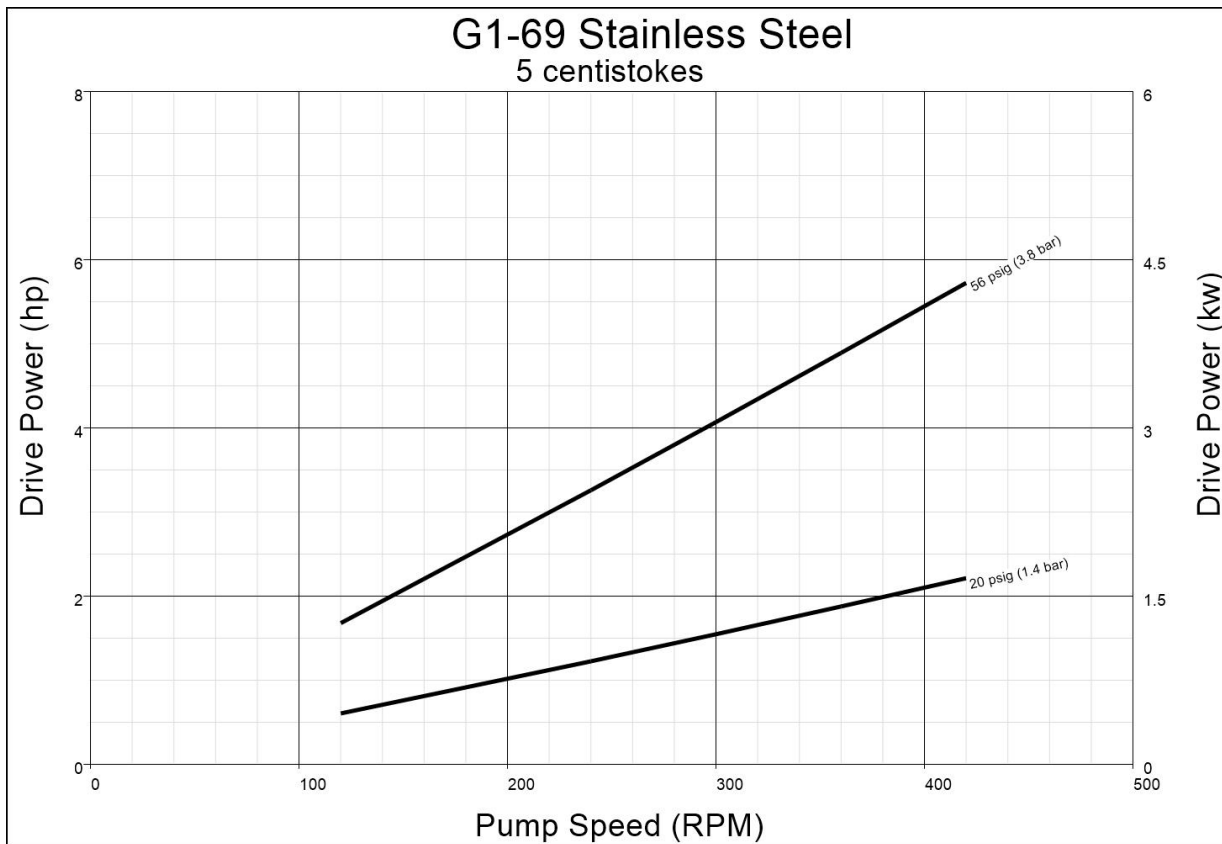
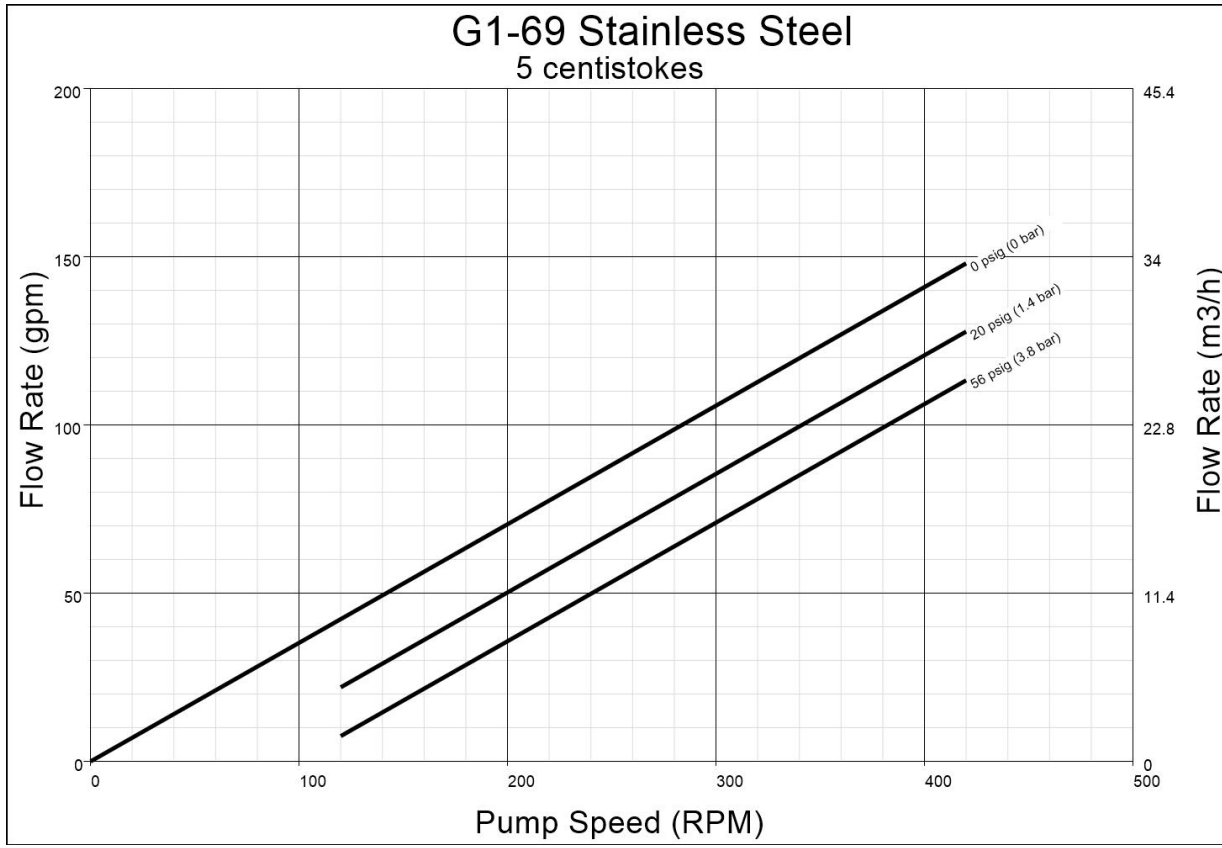


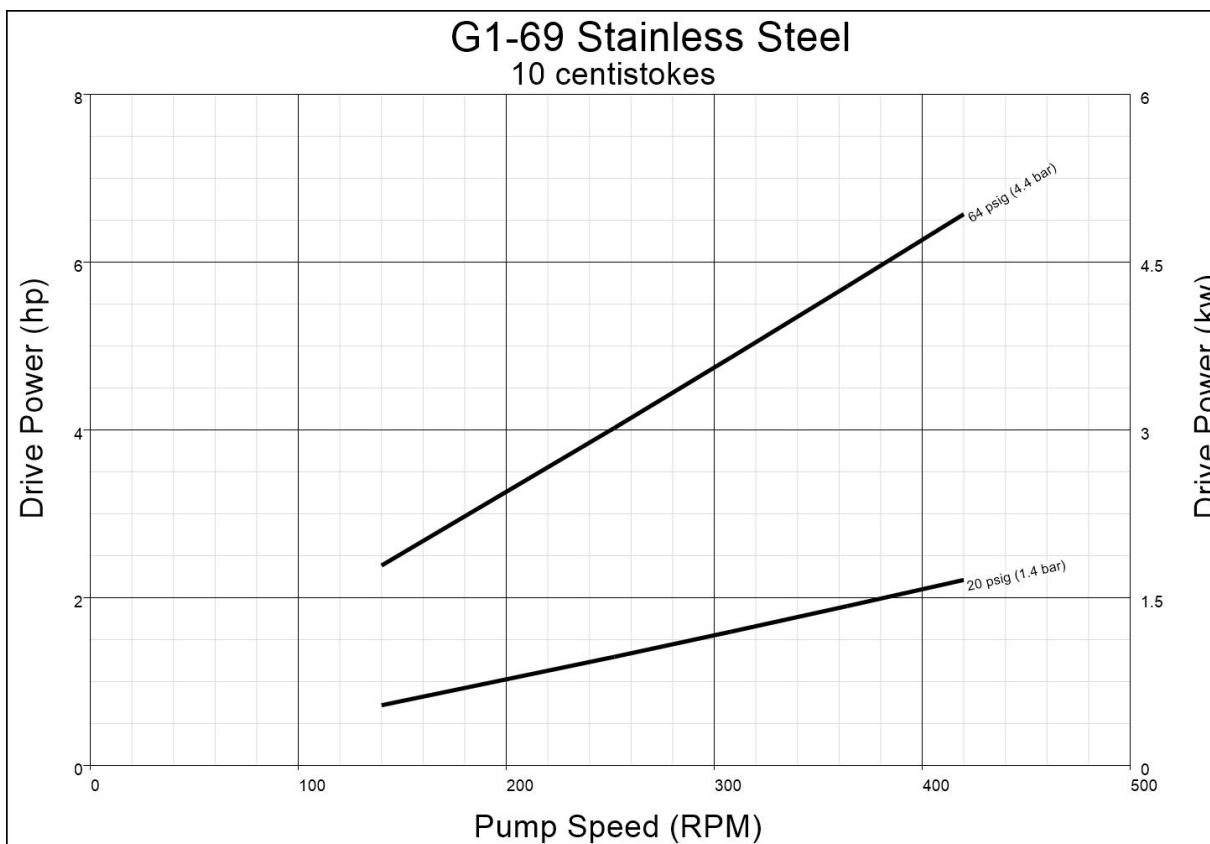
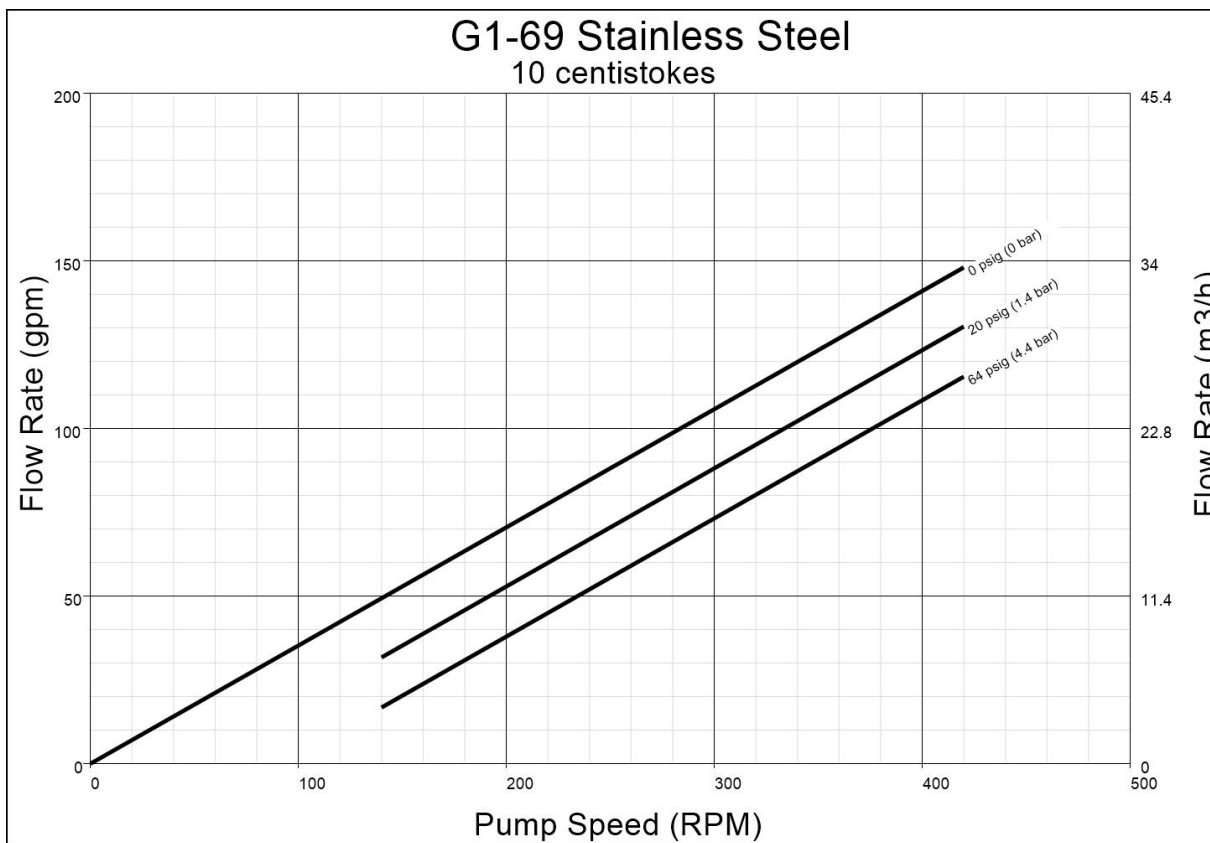


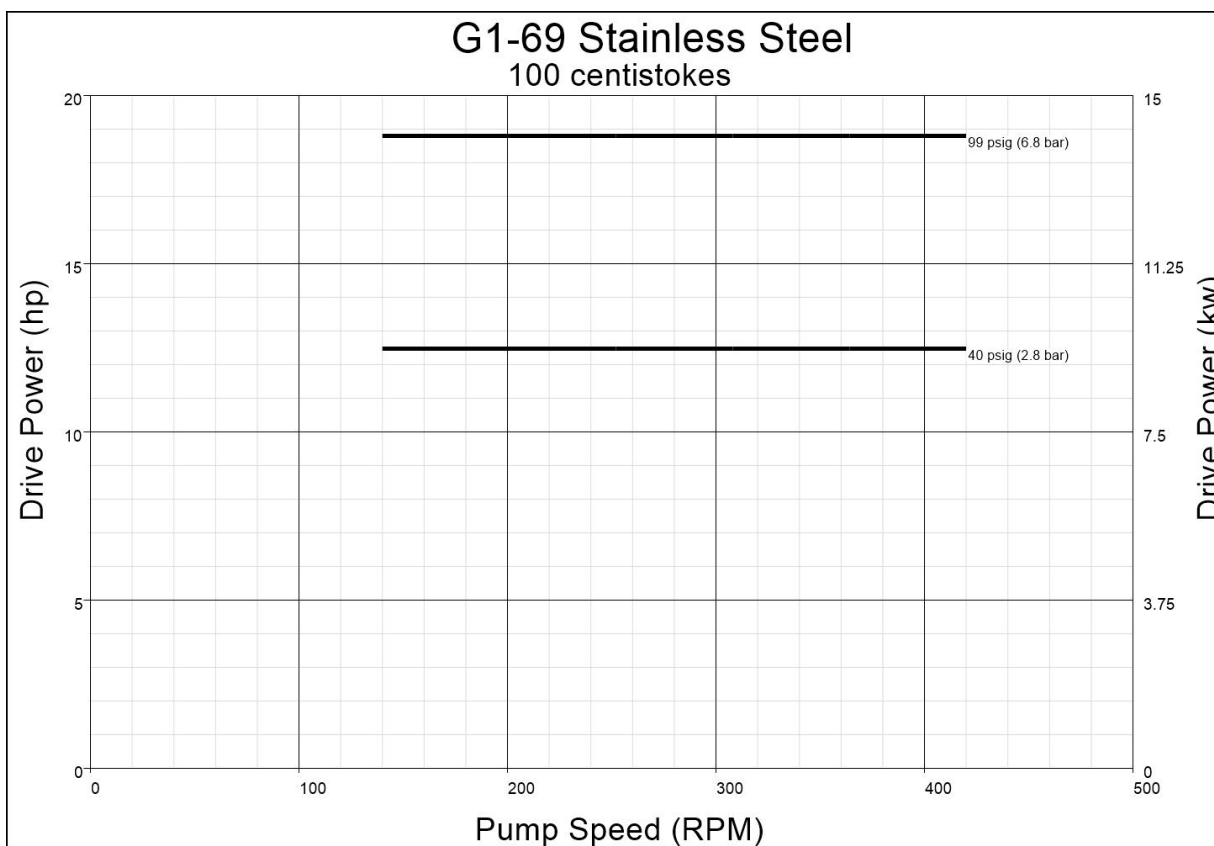
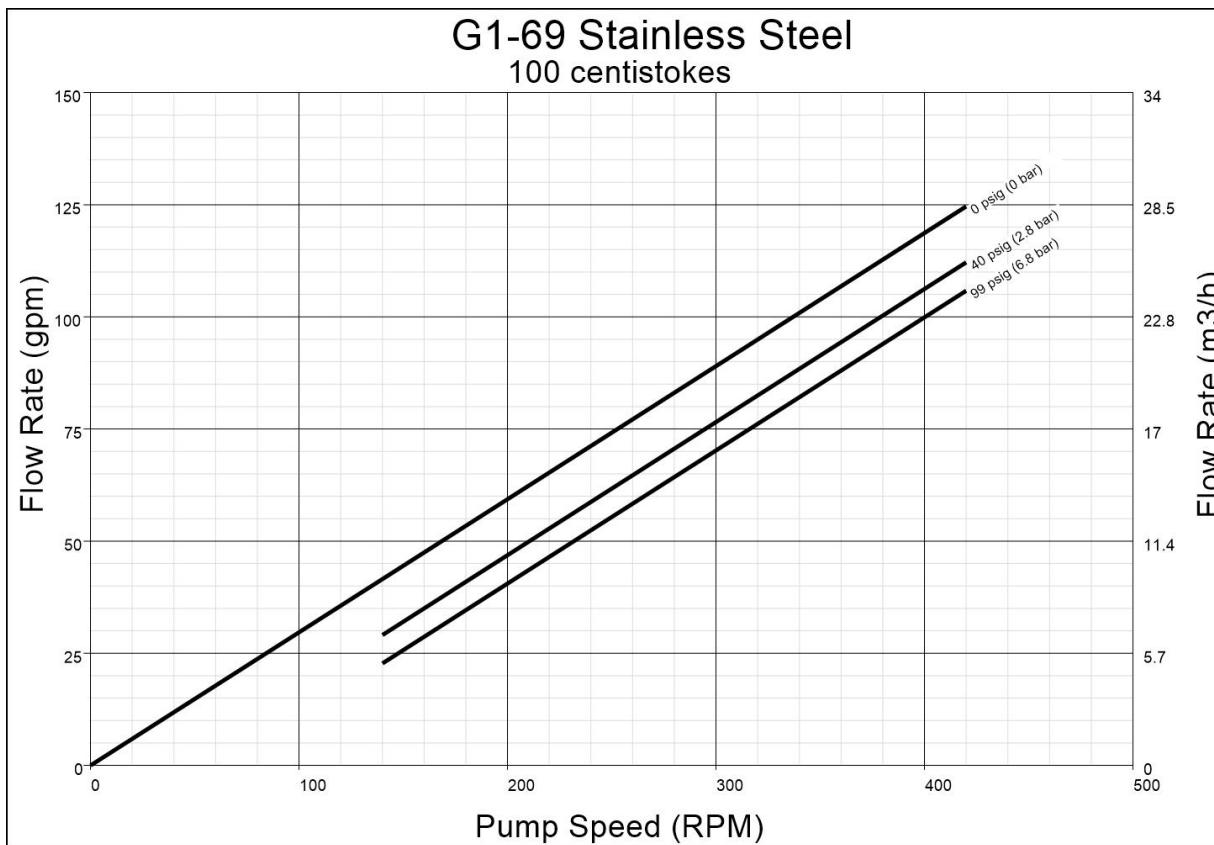


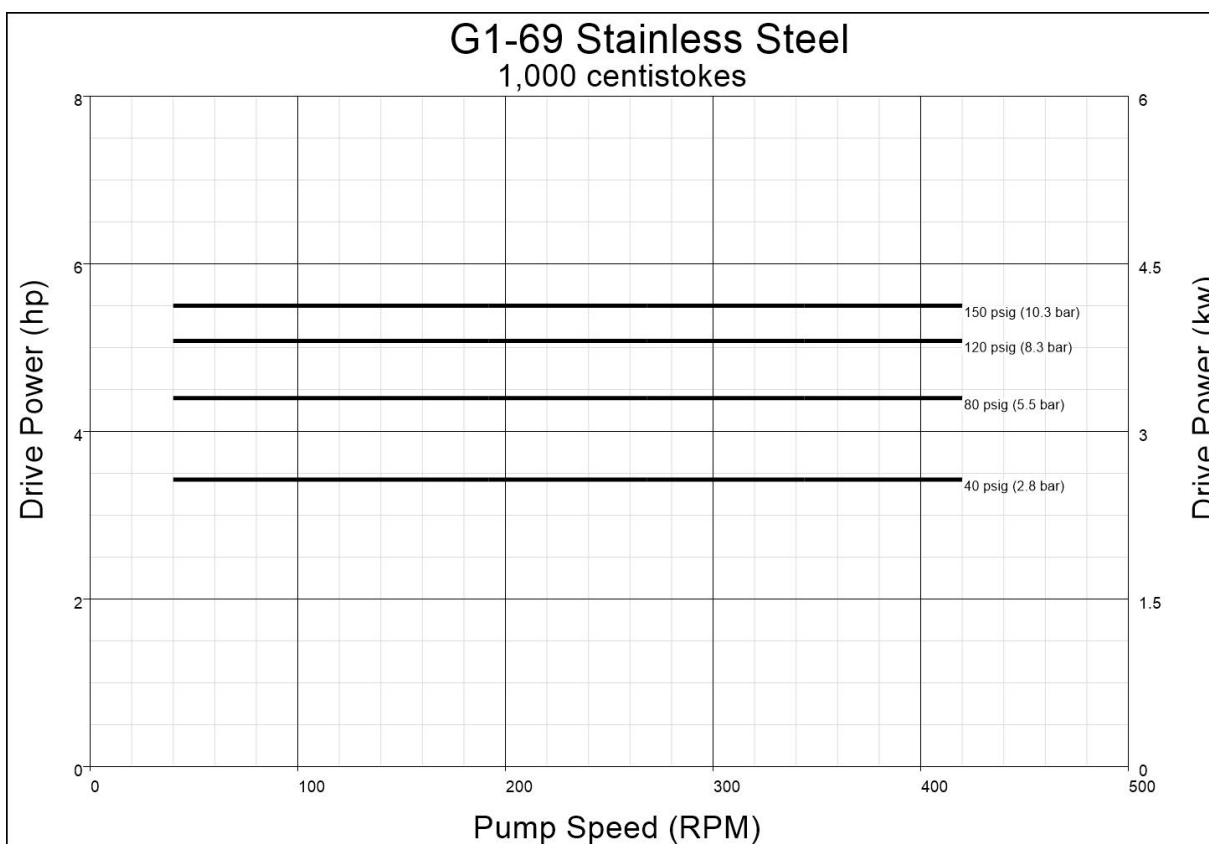
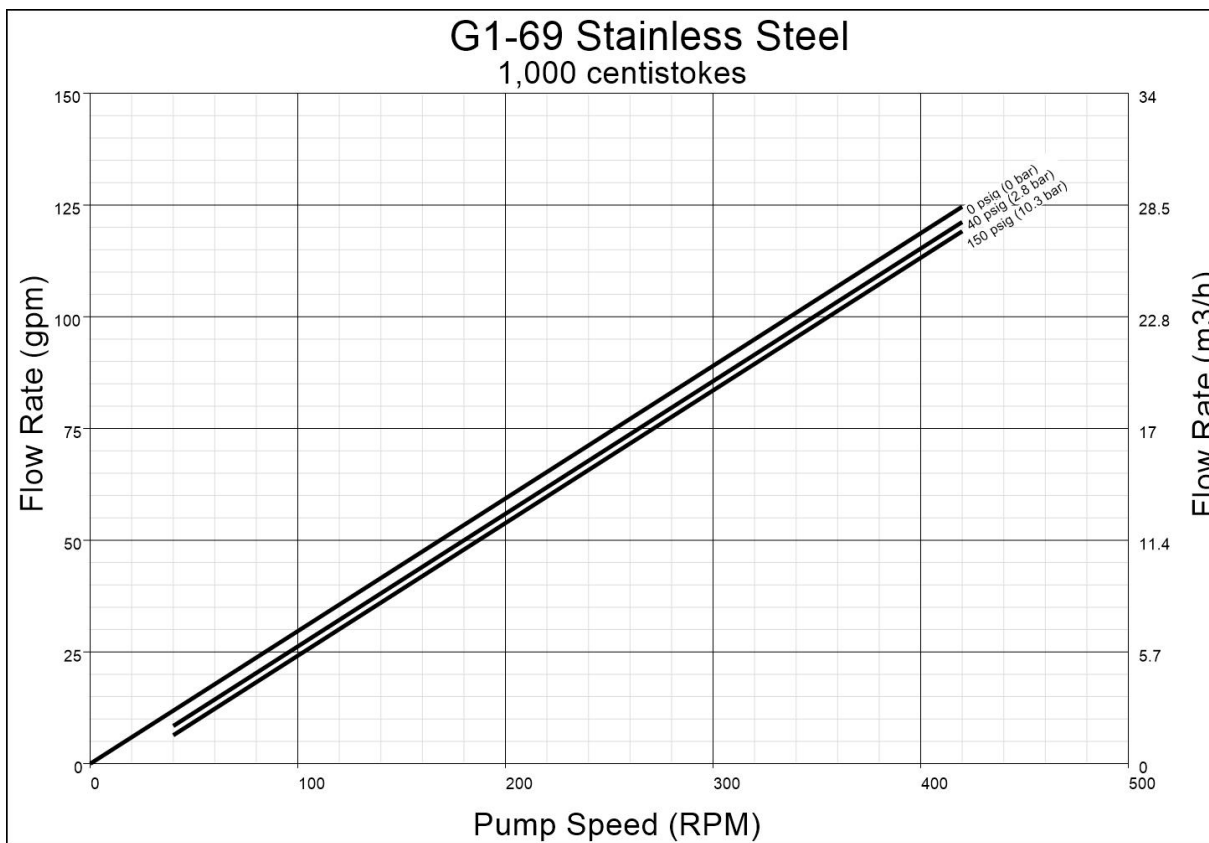


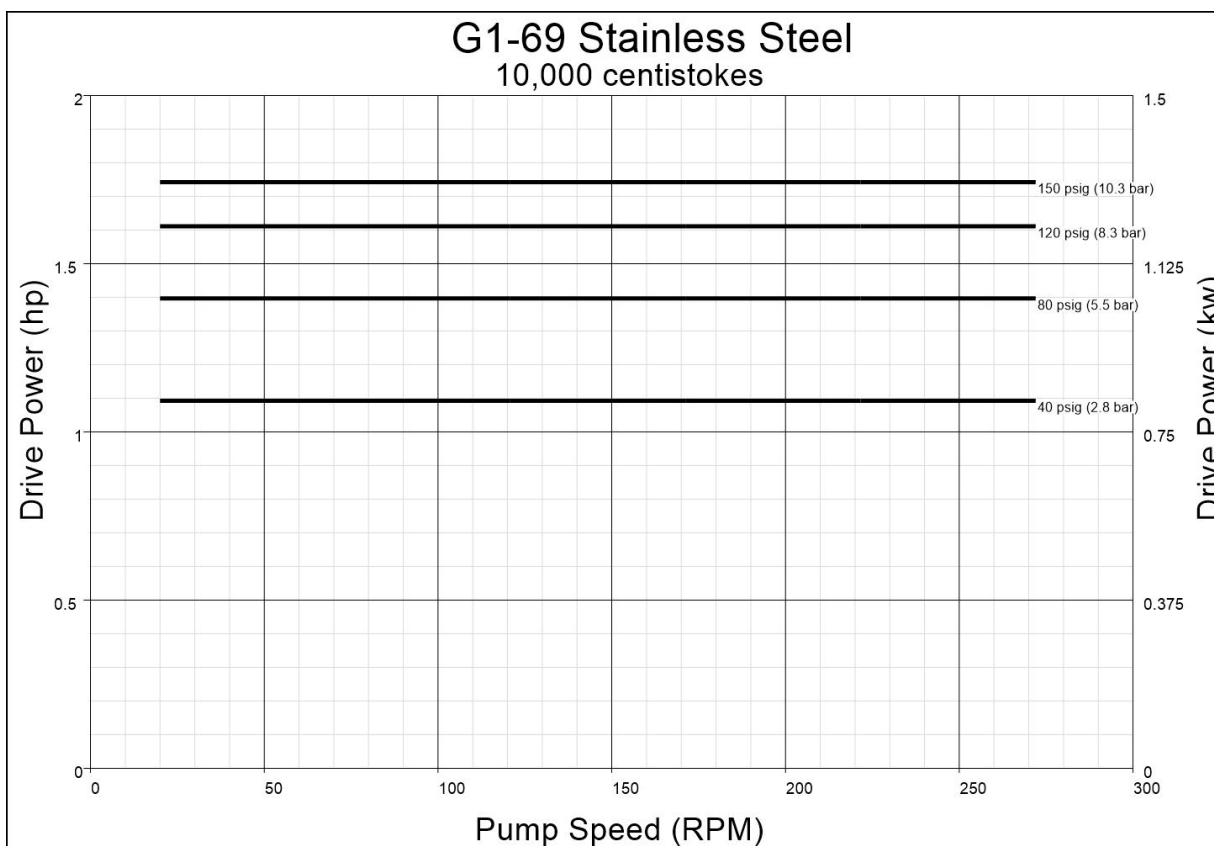
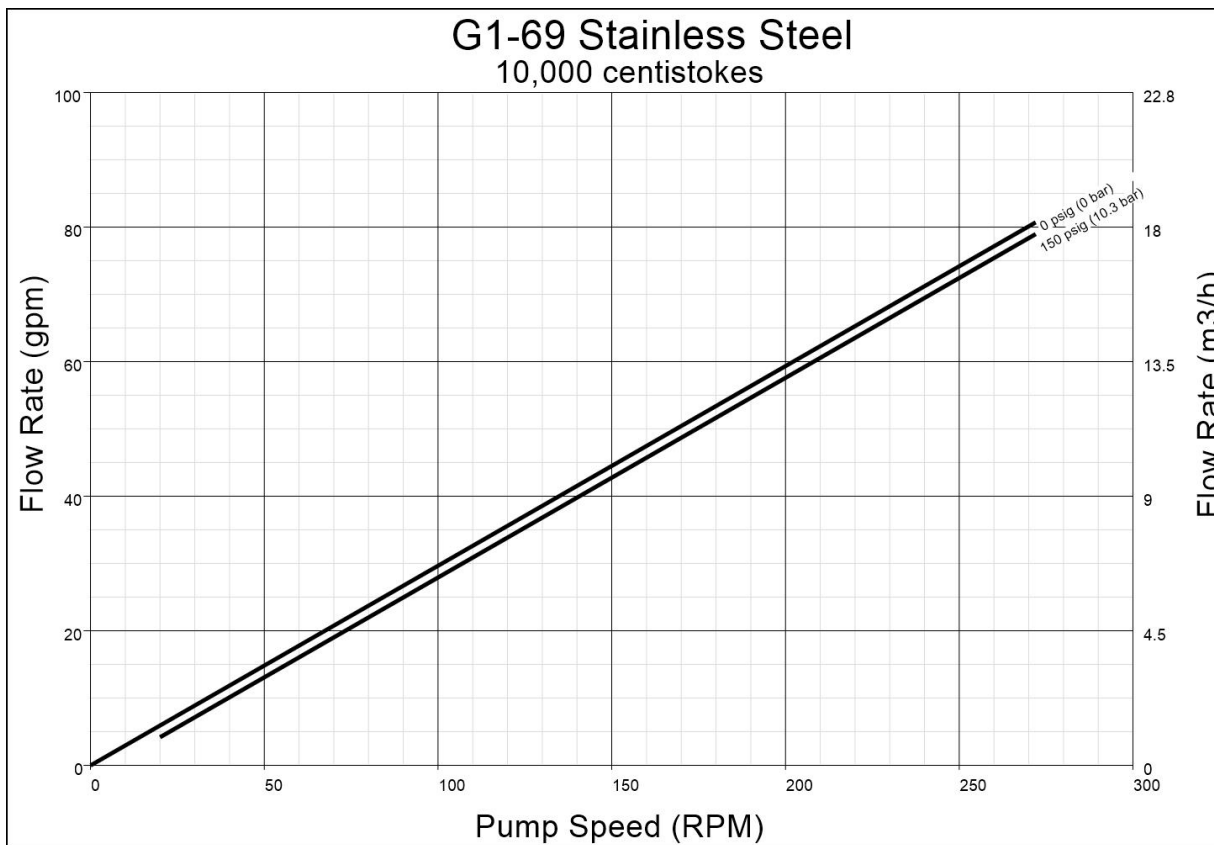


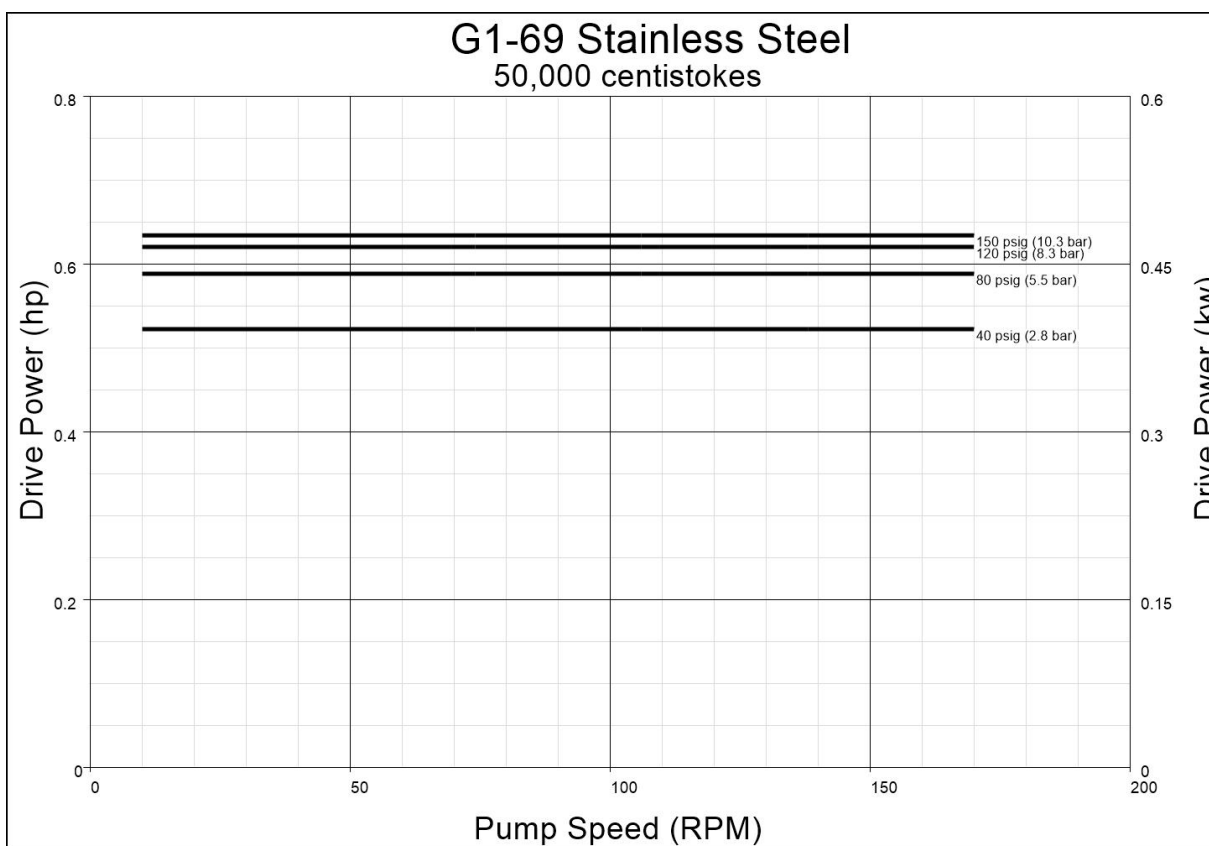
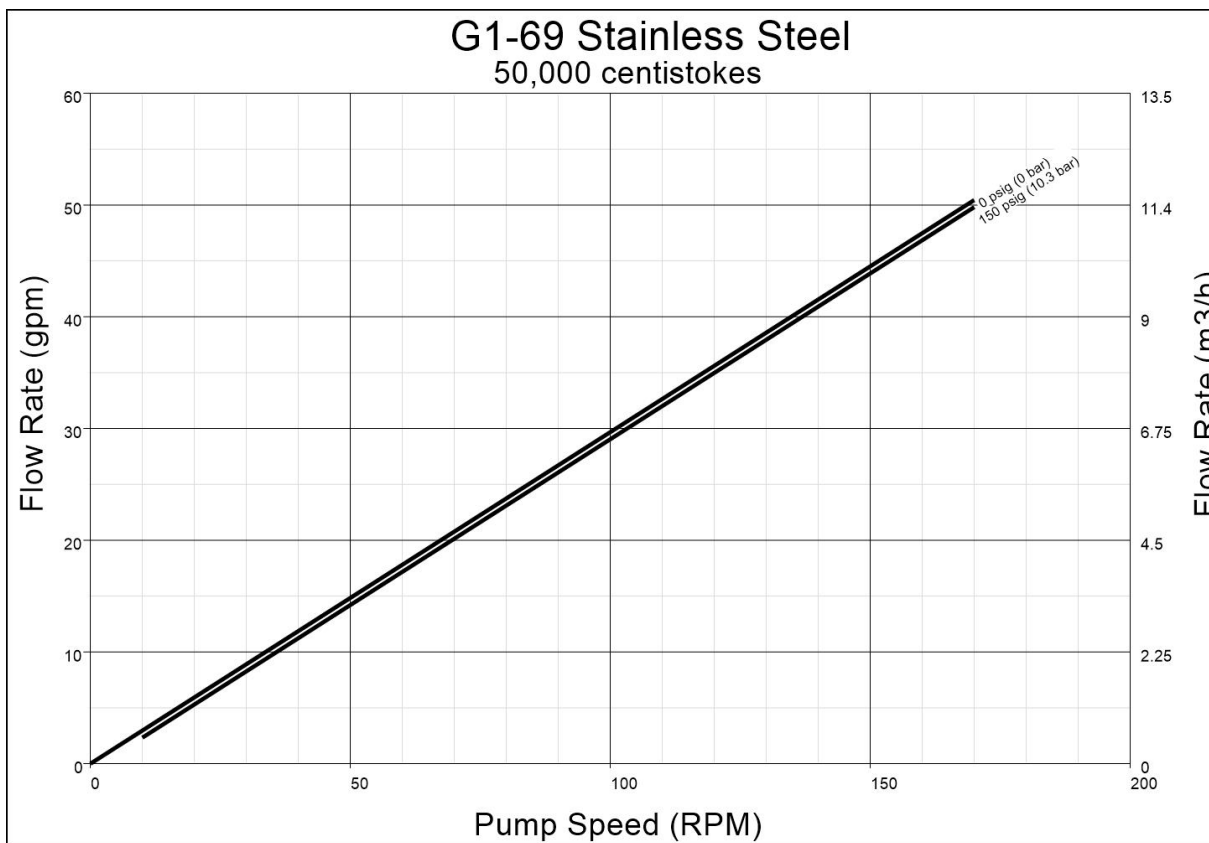


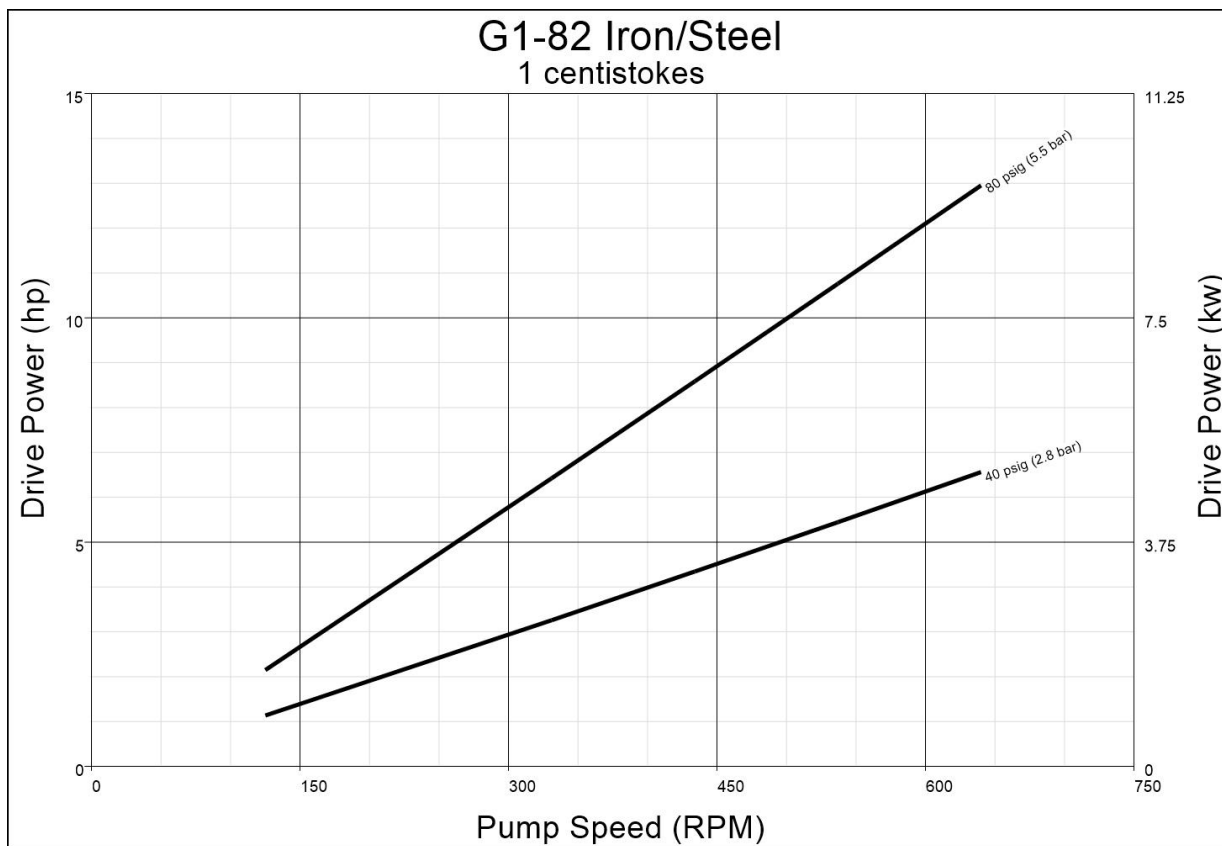
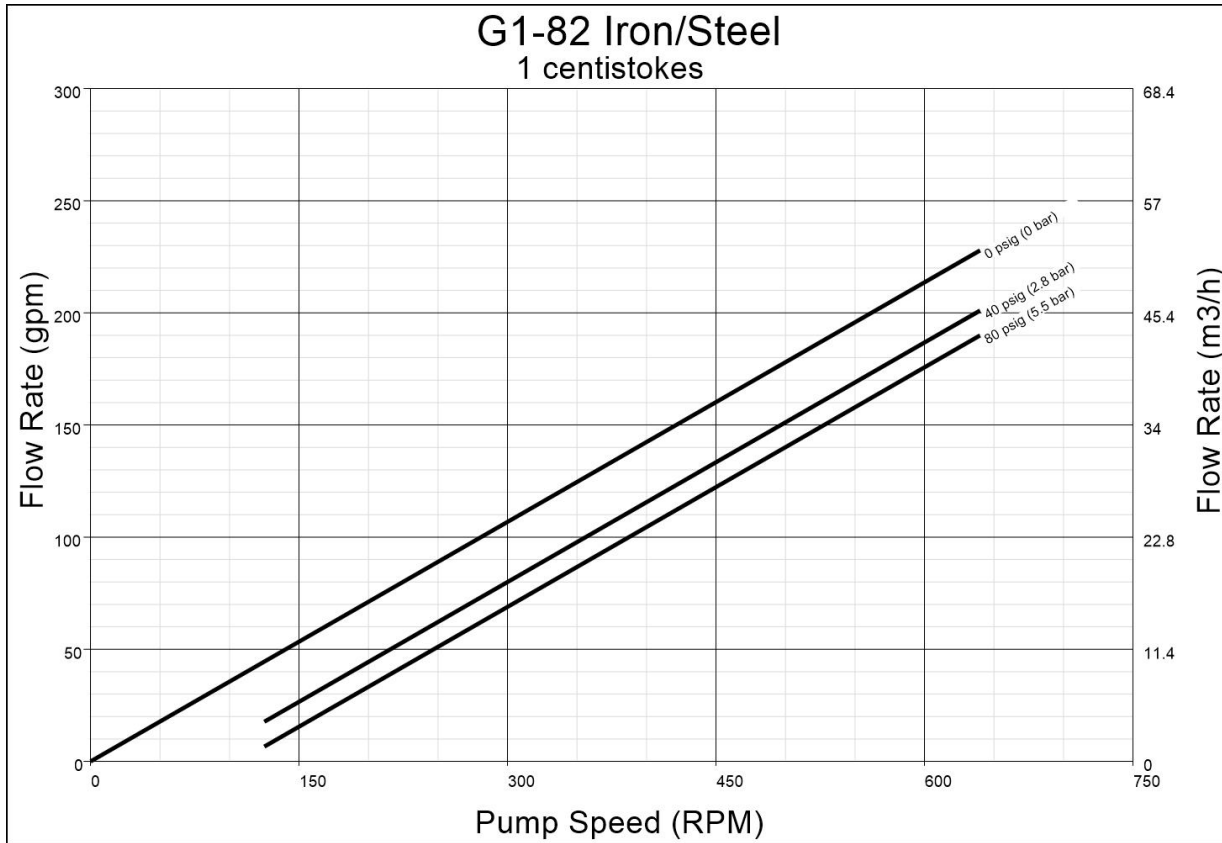


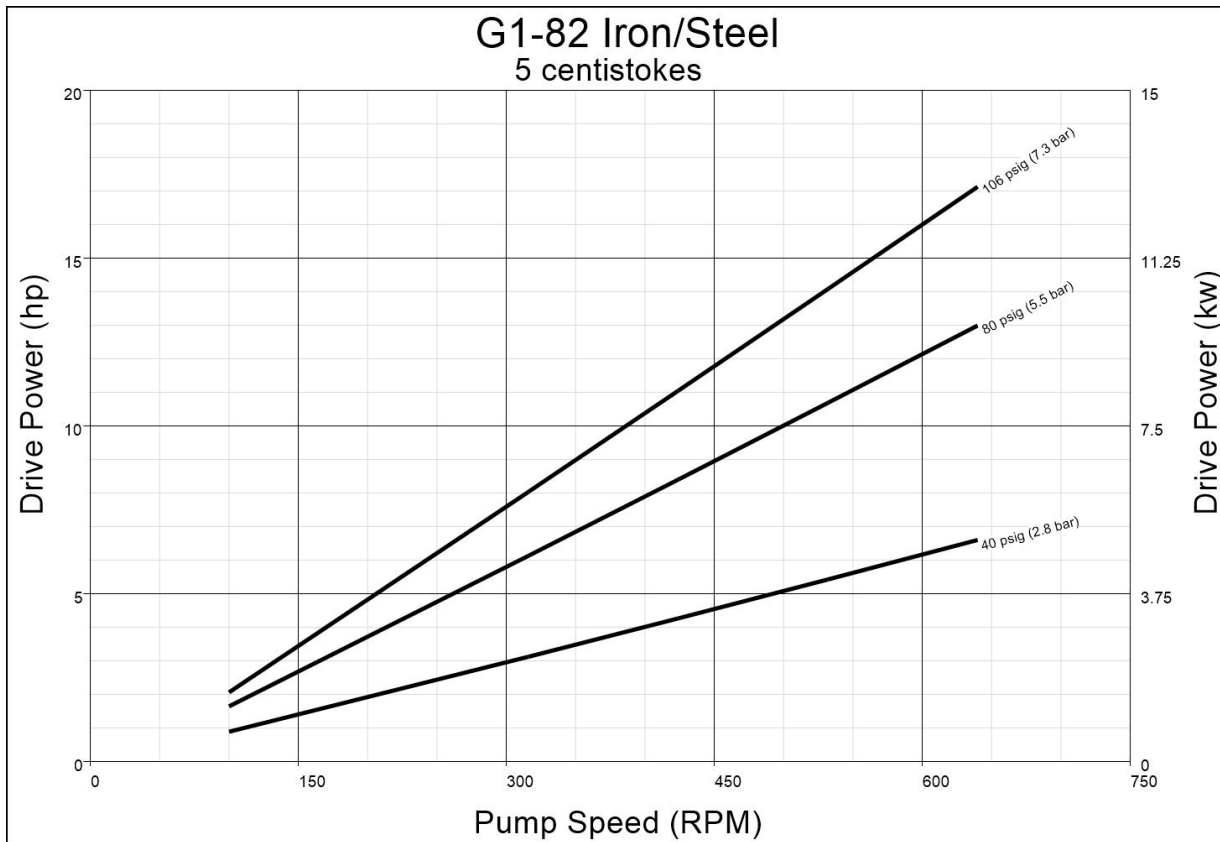
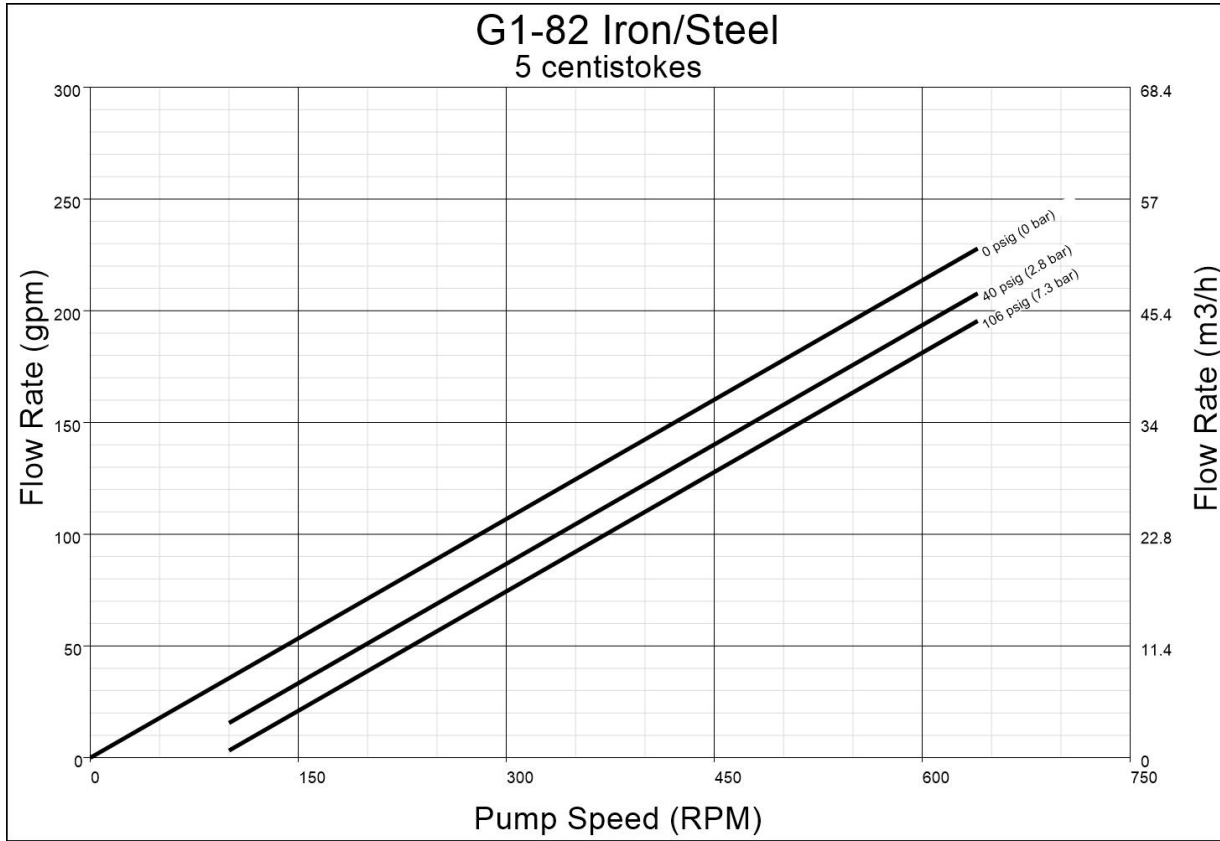


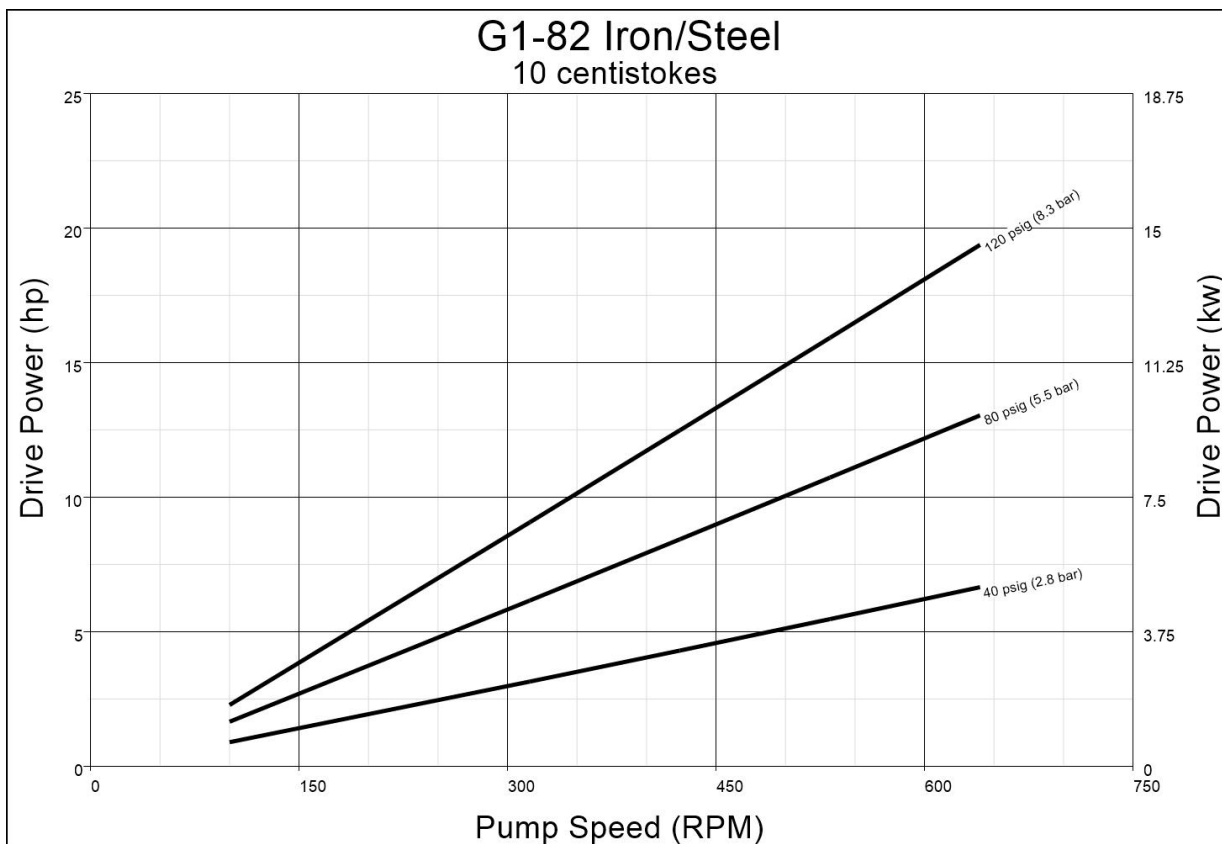
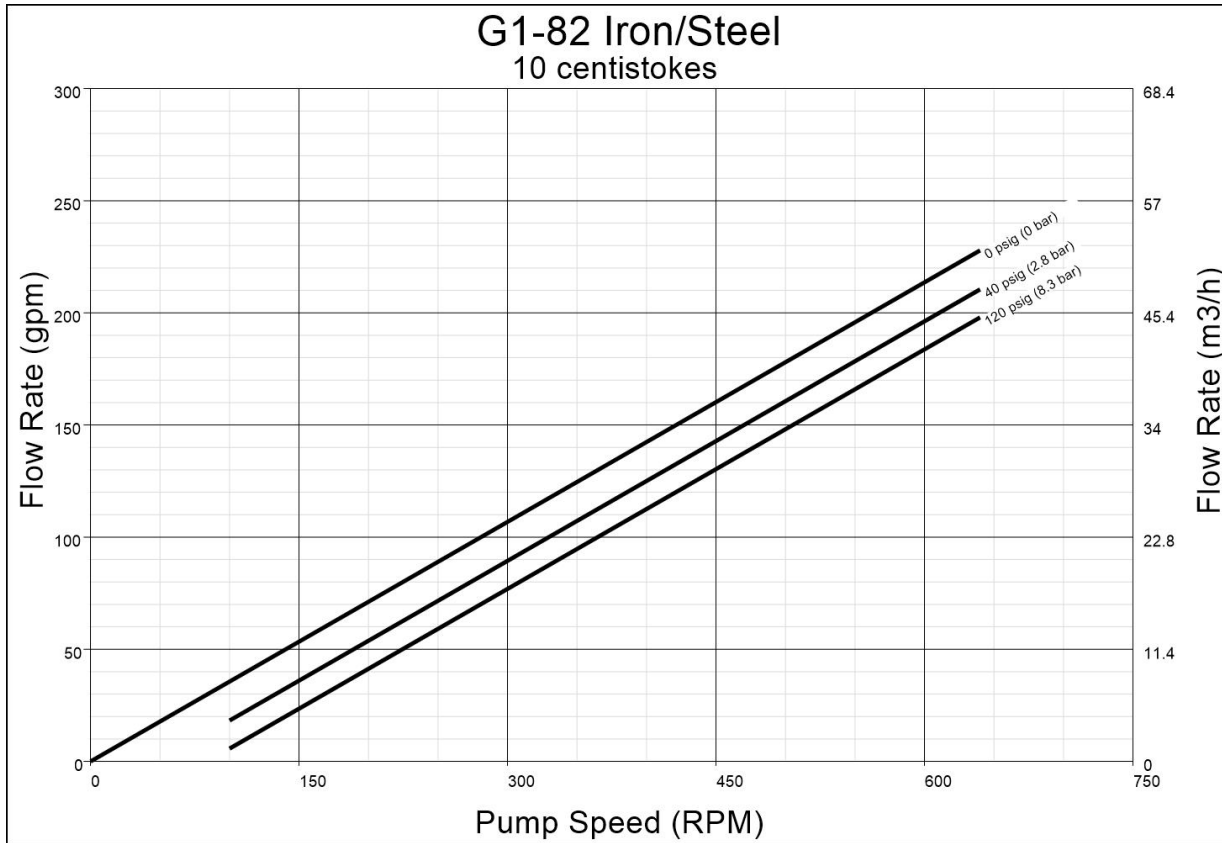




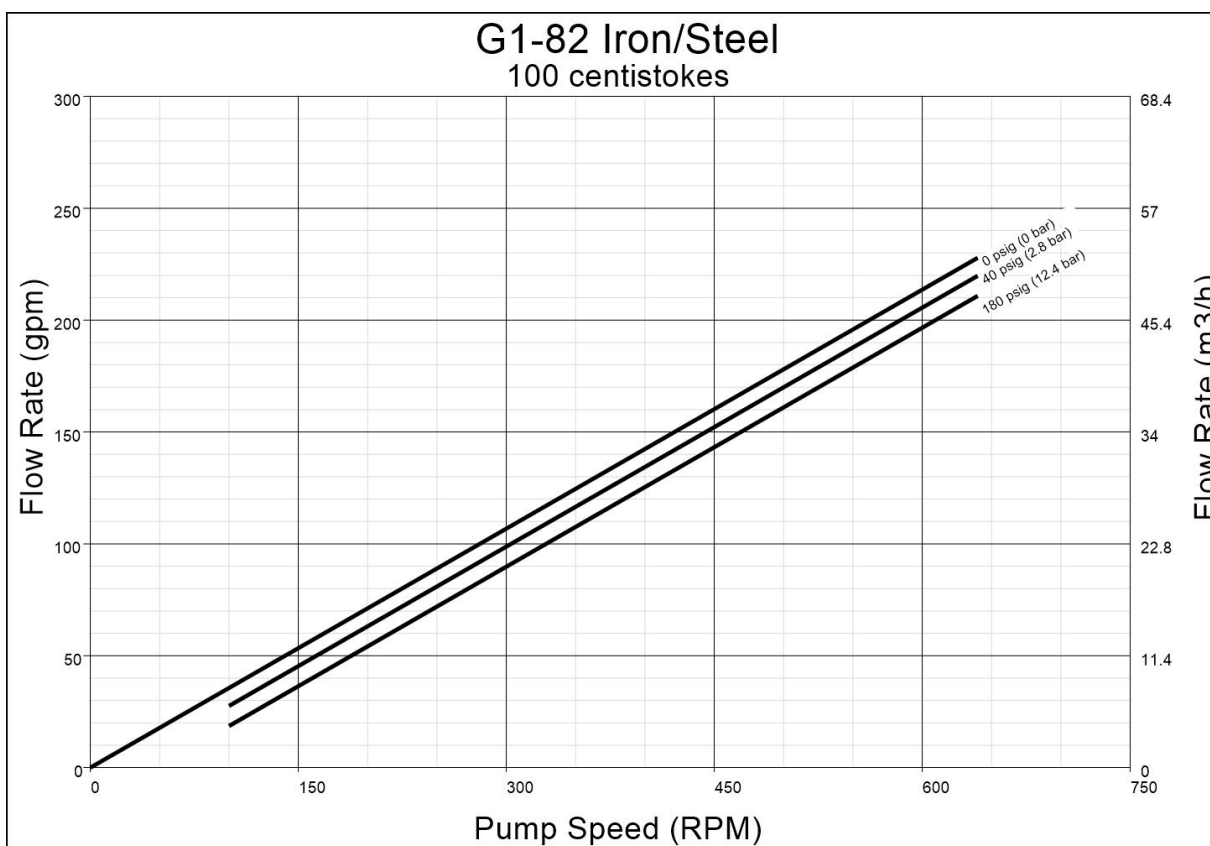
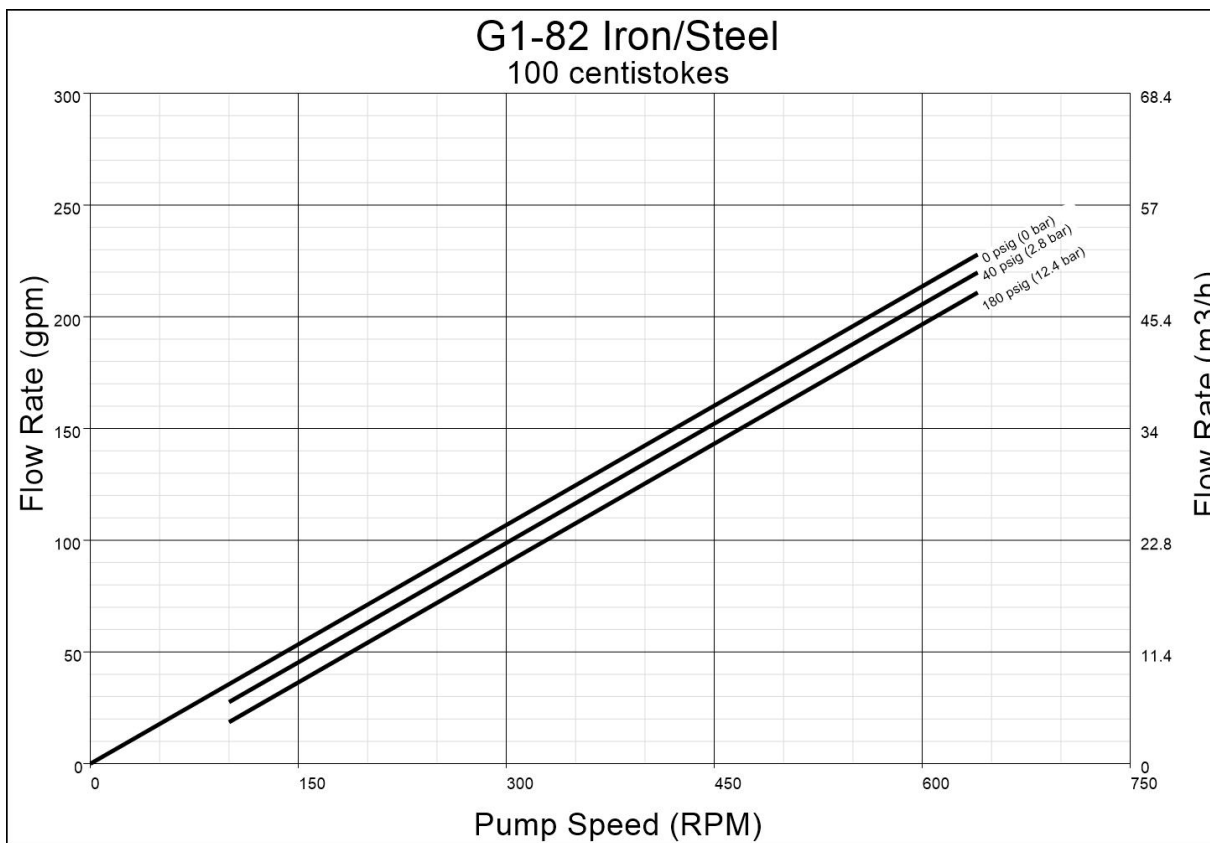


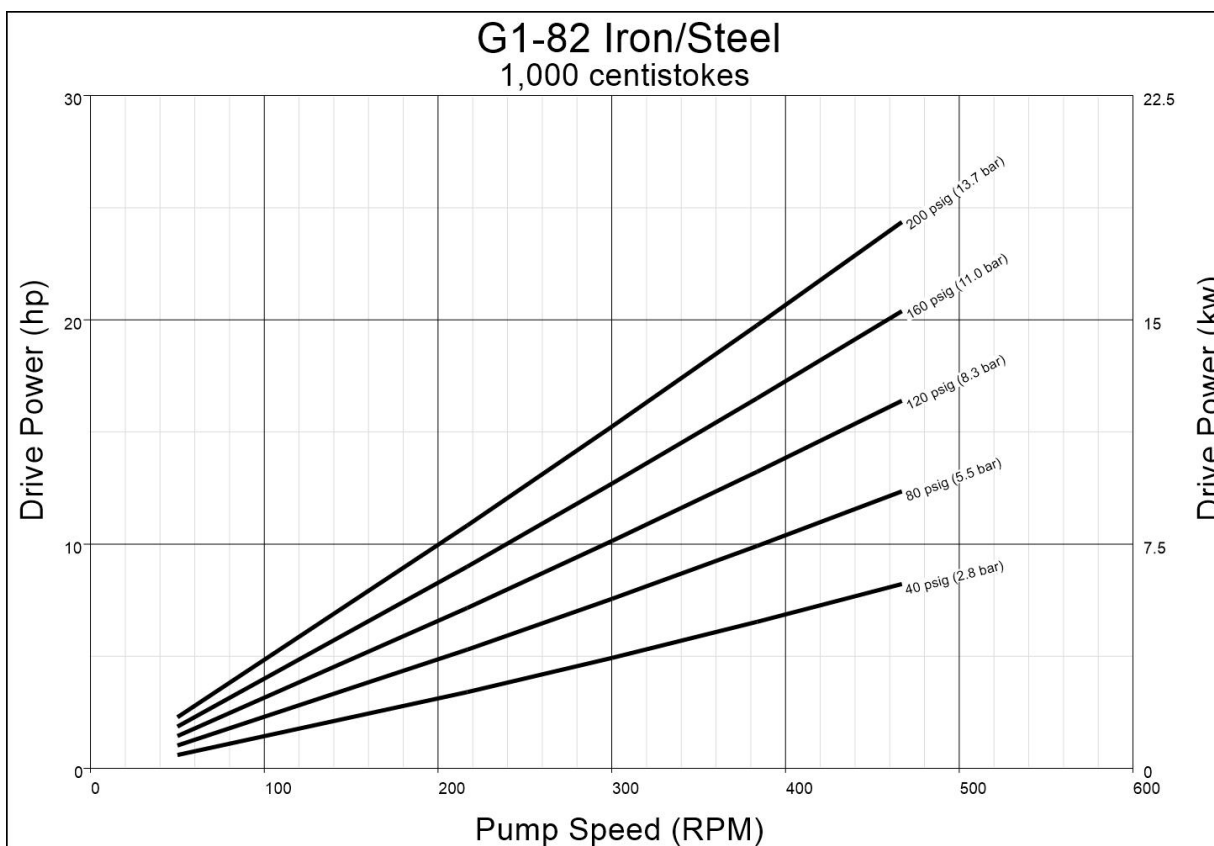
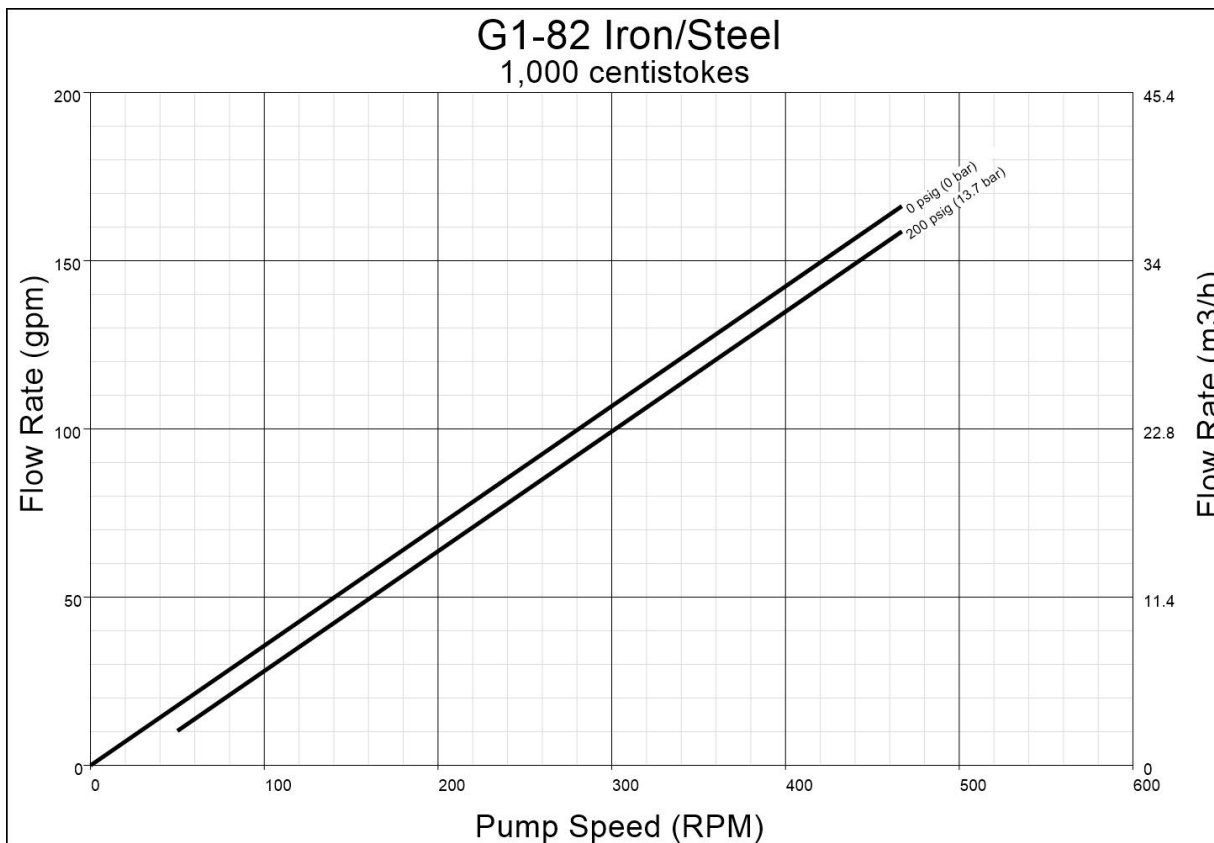


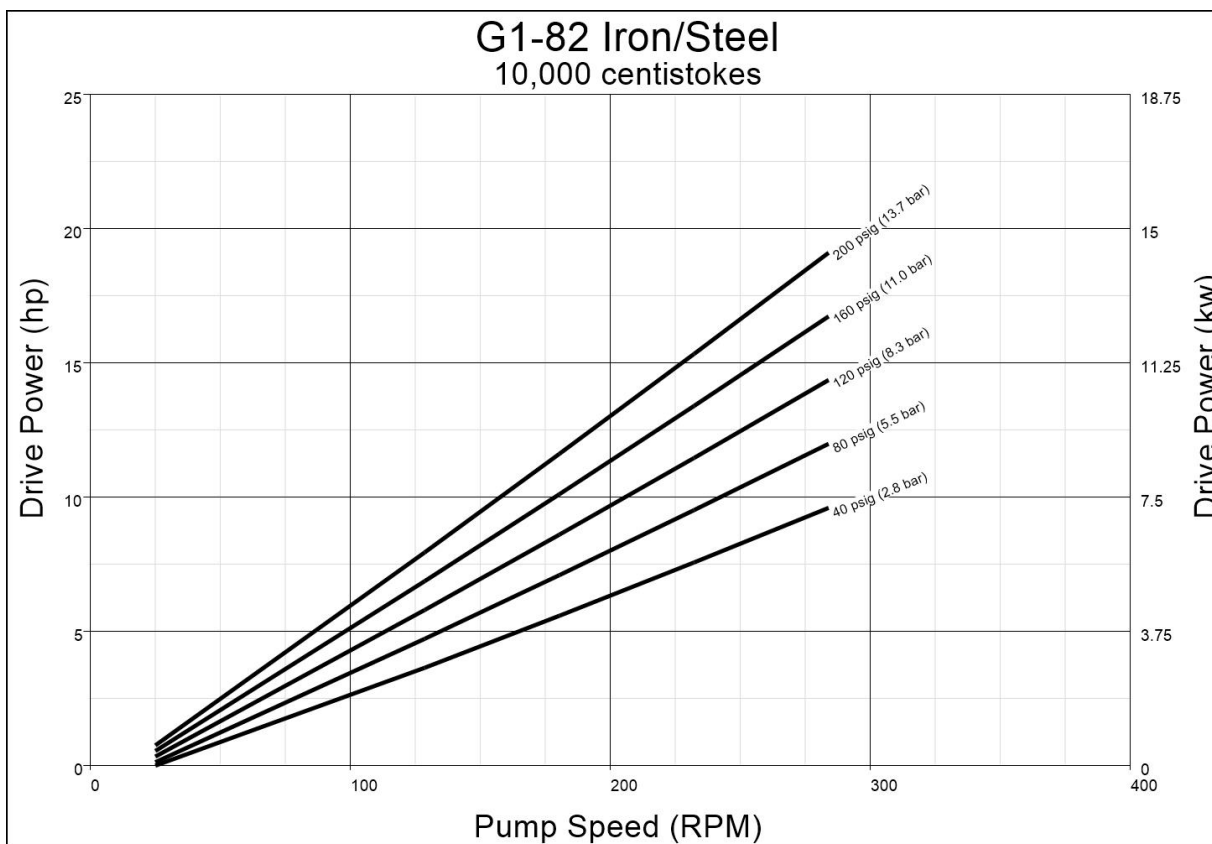
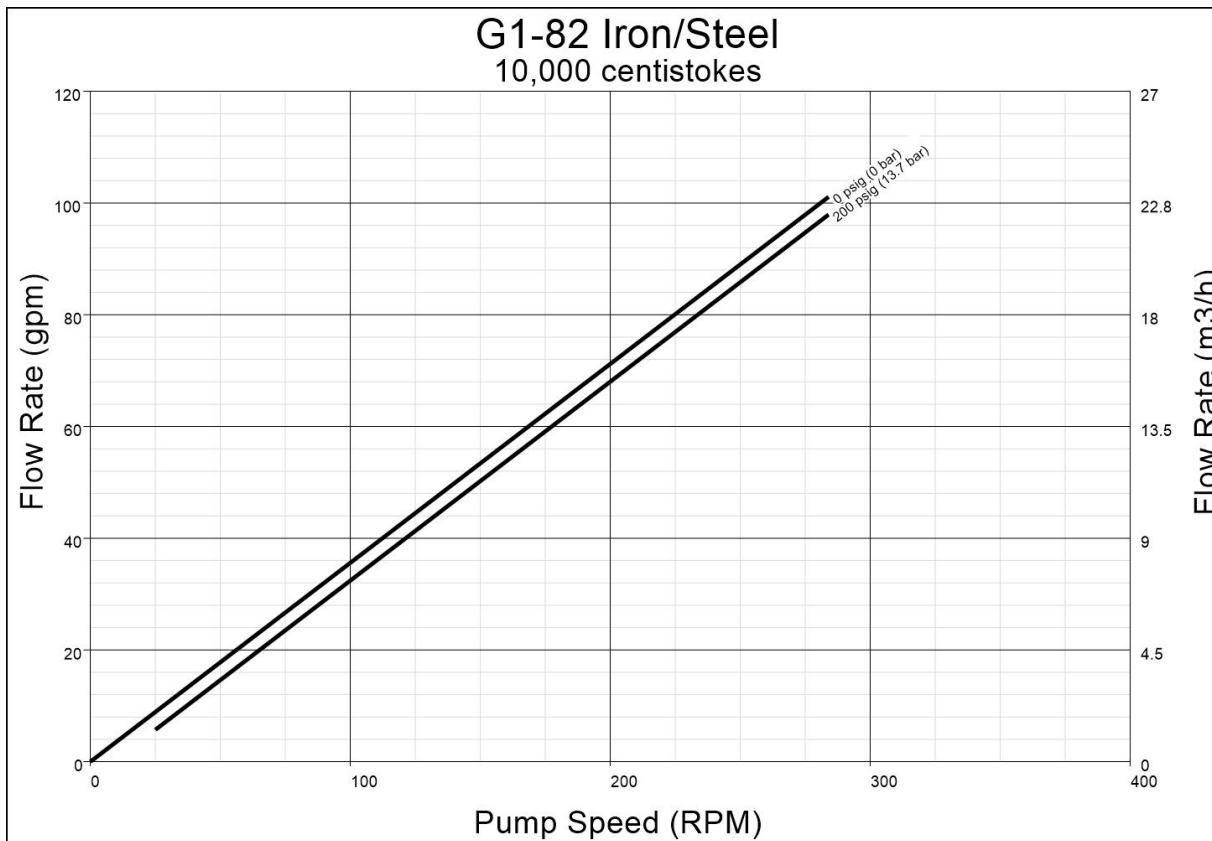


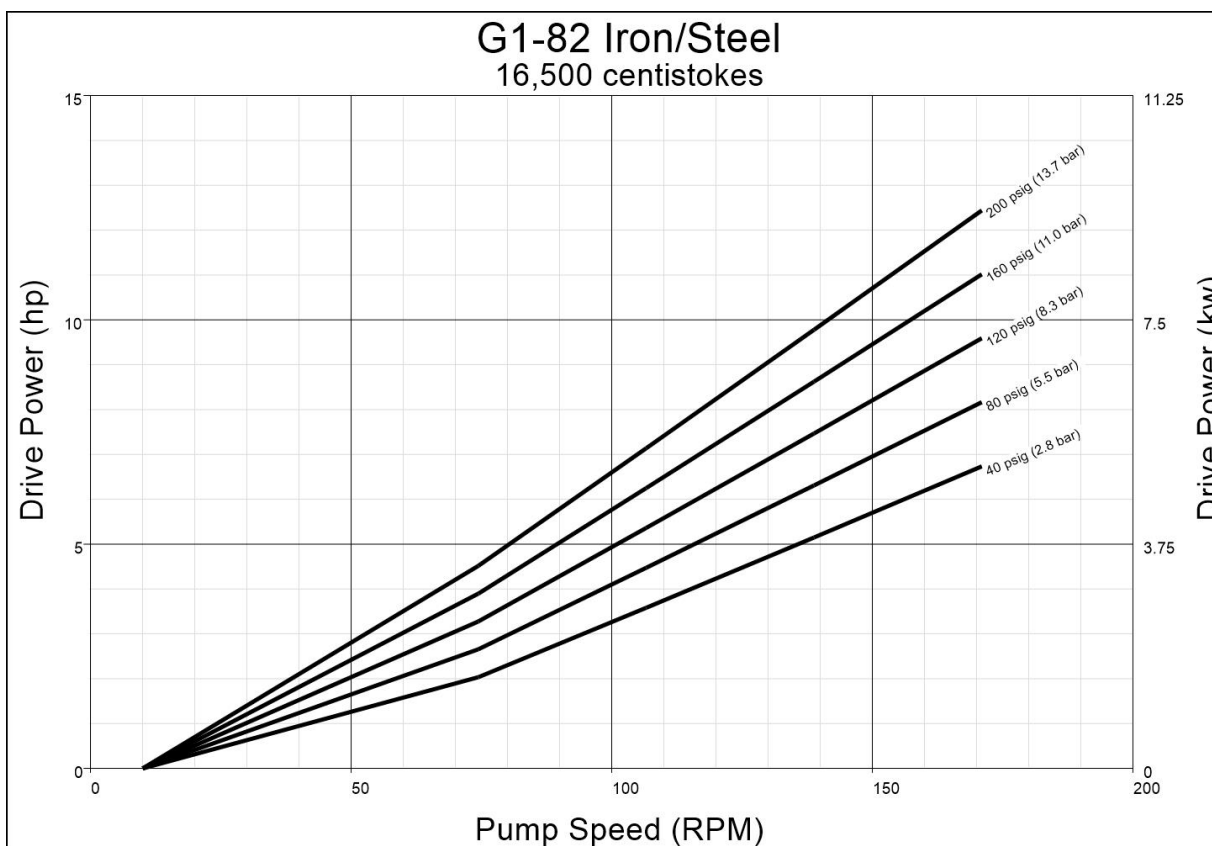
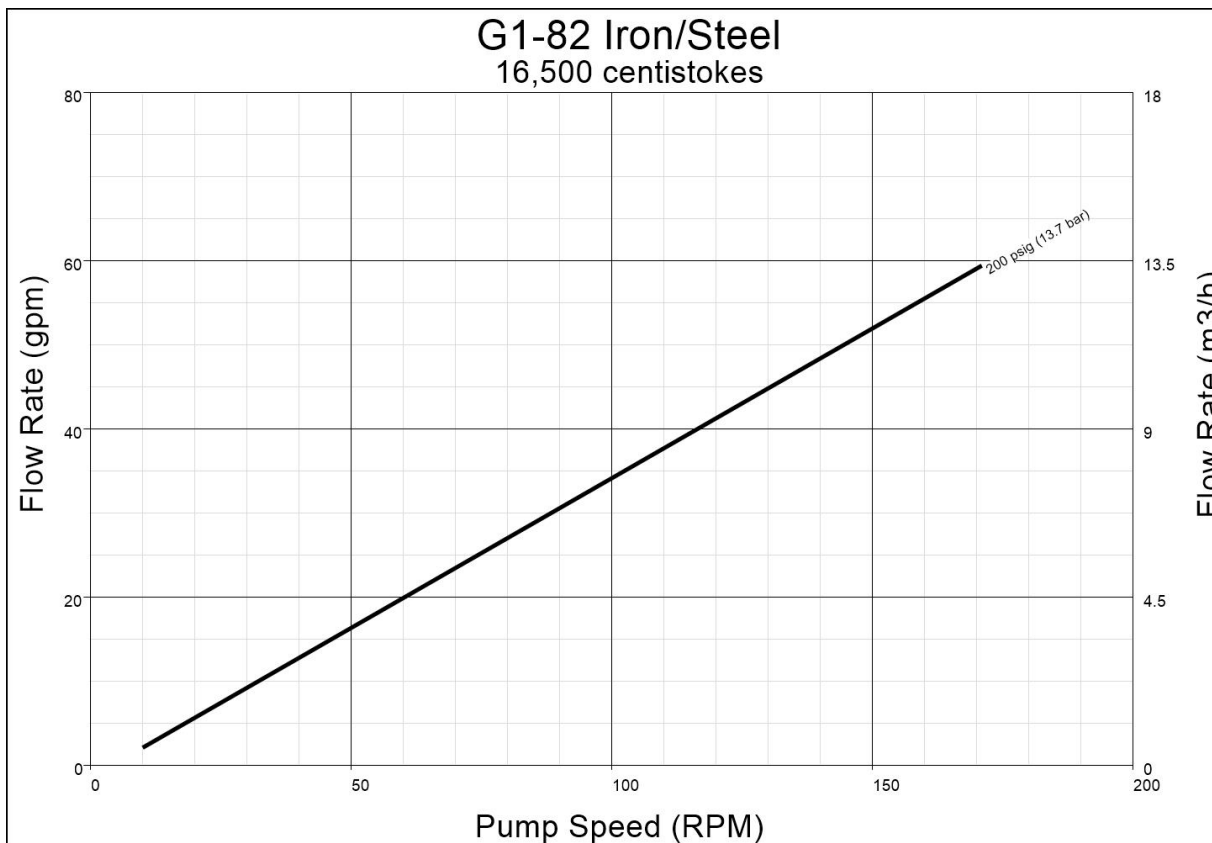


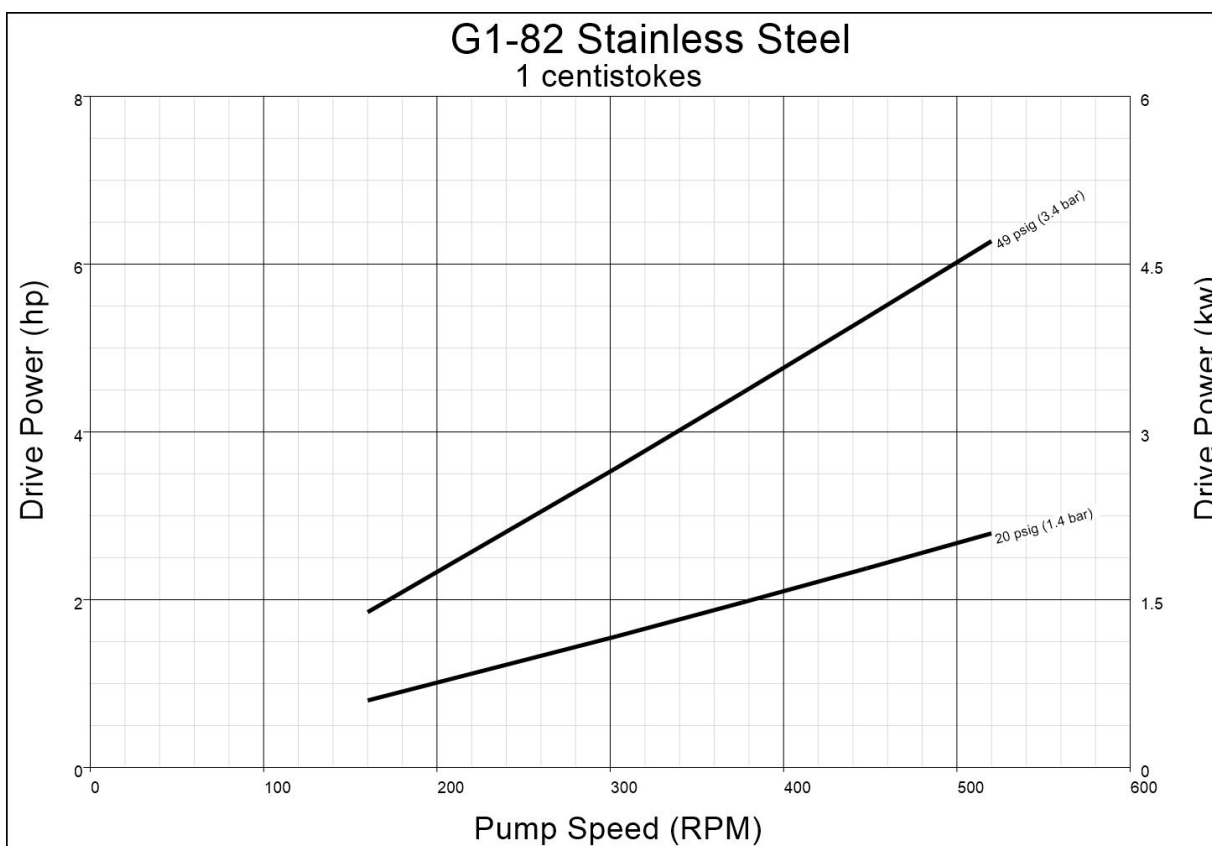
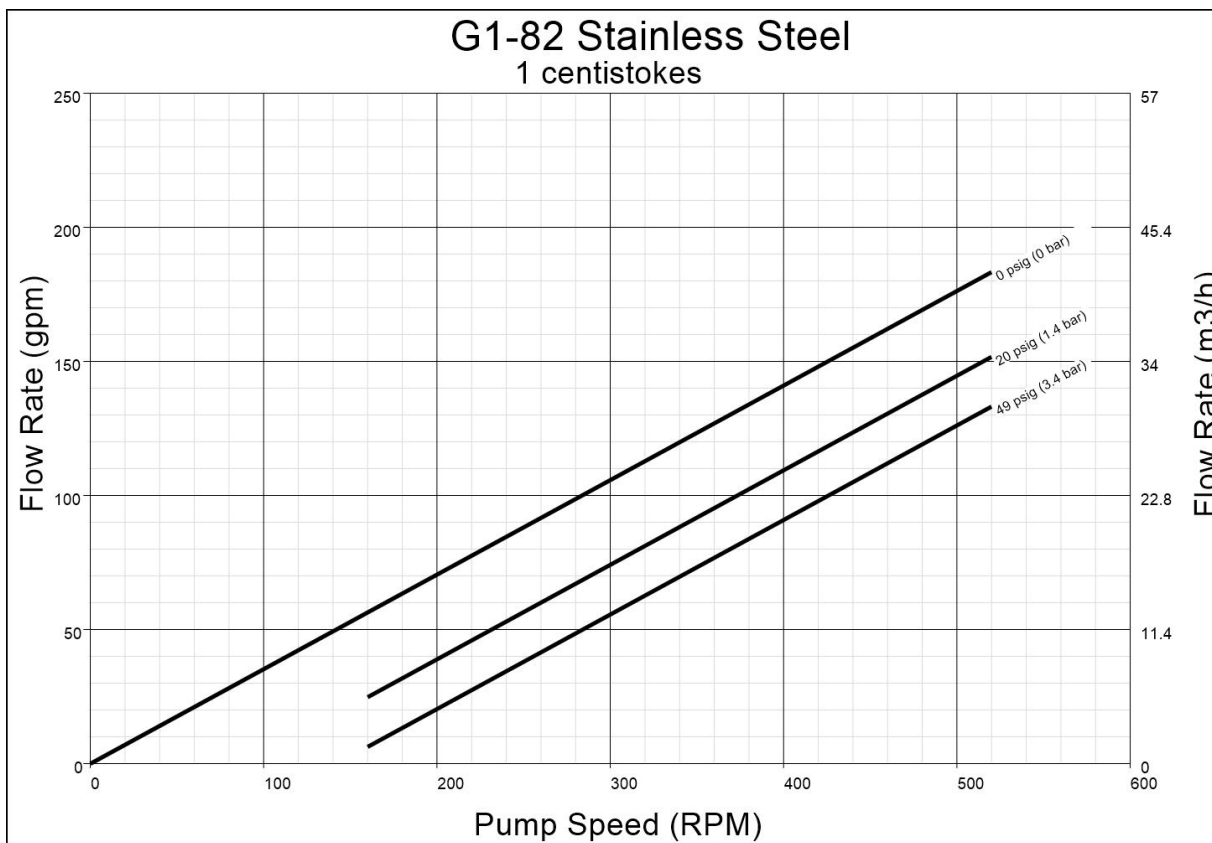
G1-82: Iron and Steel
G2-82: Iron Only

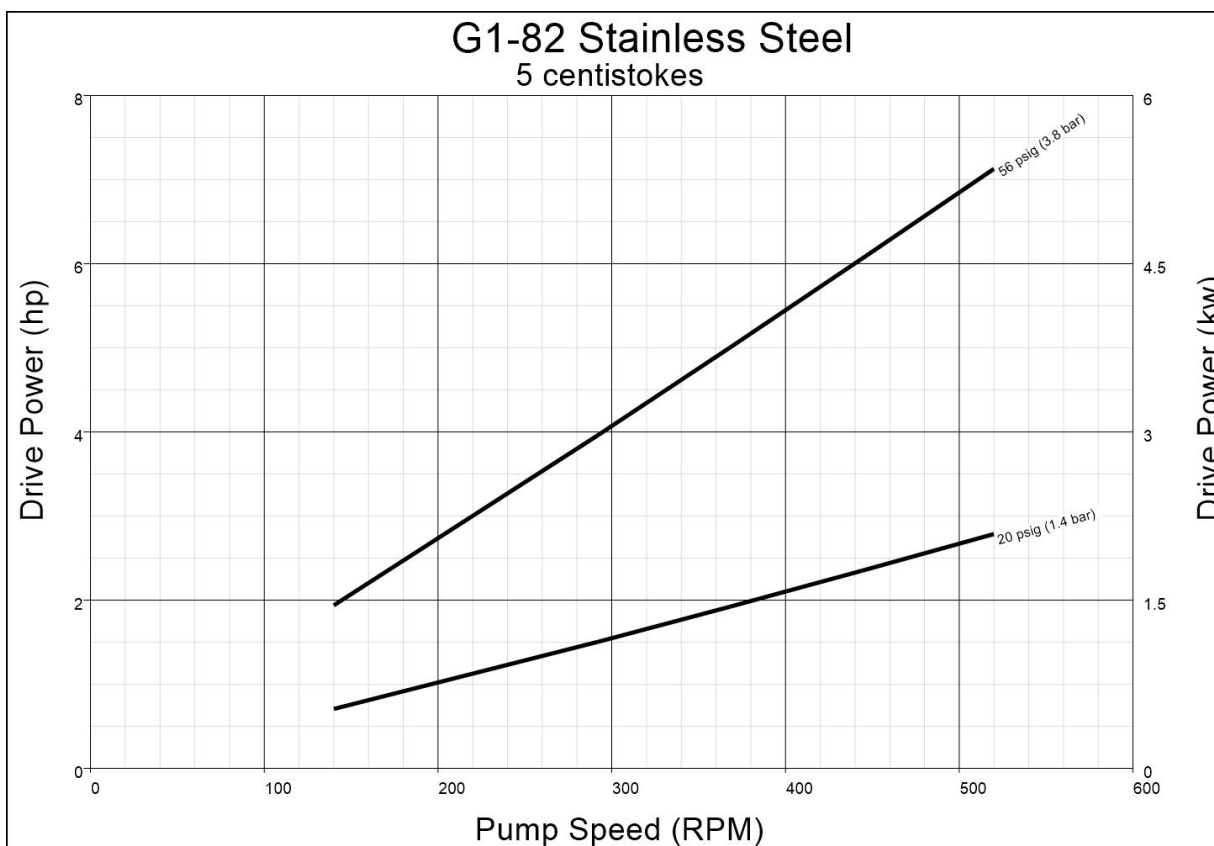
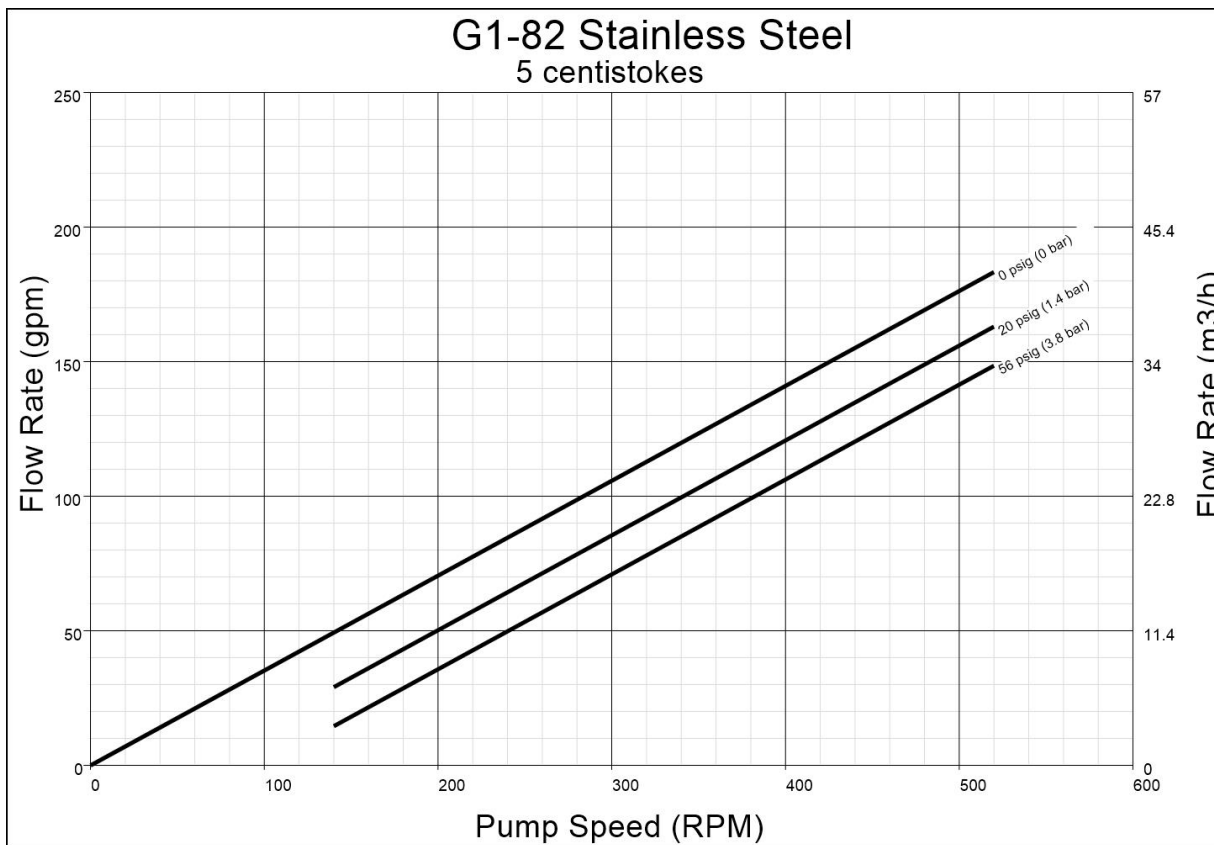


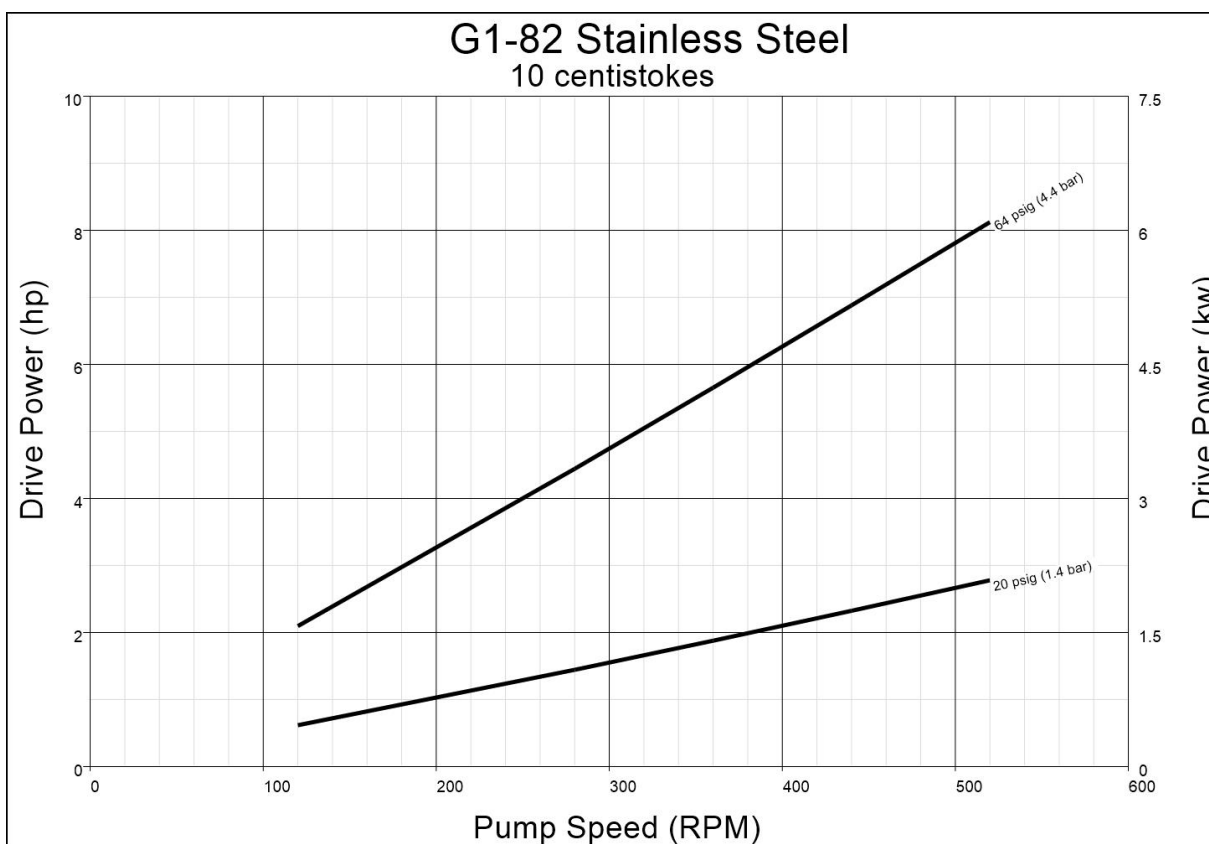
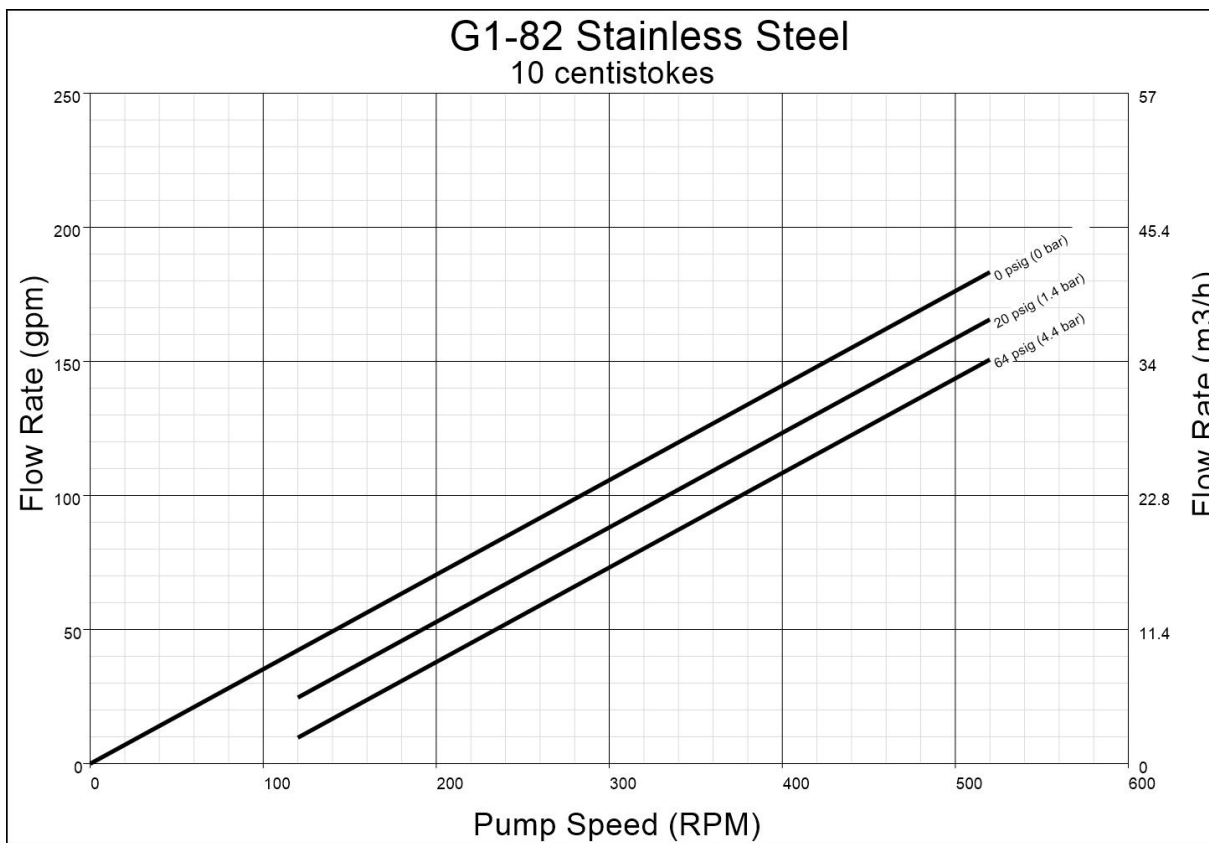


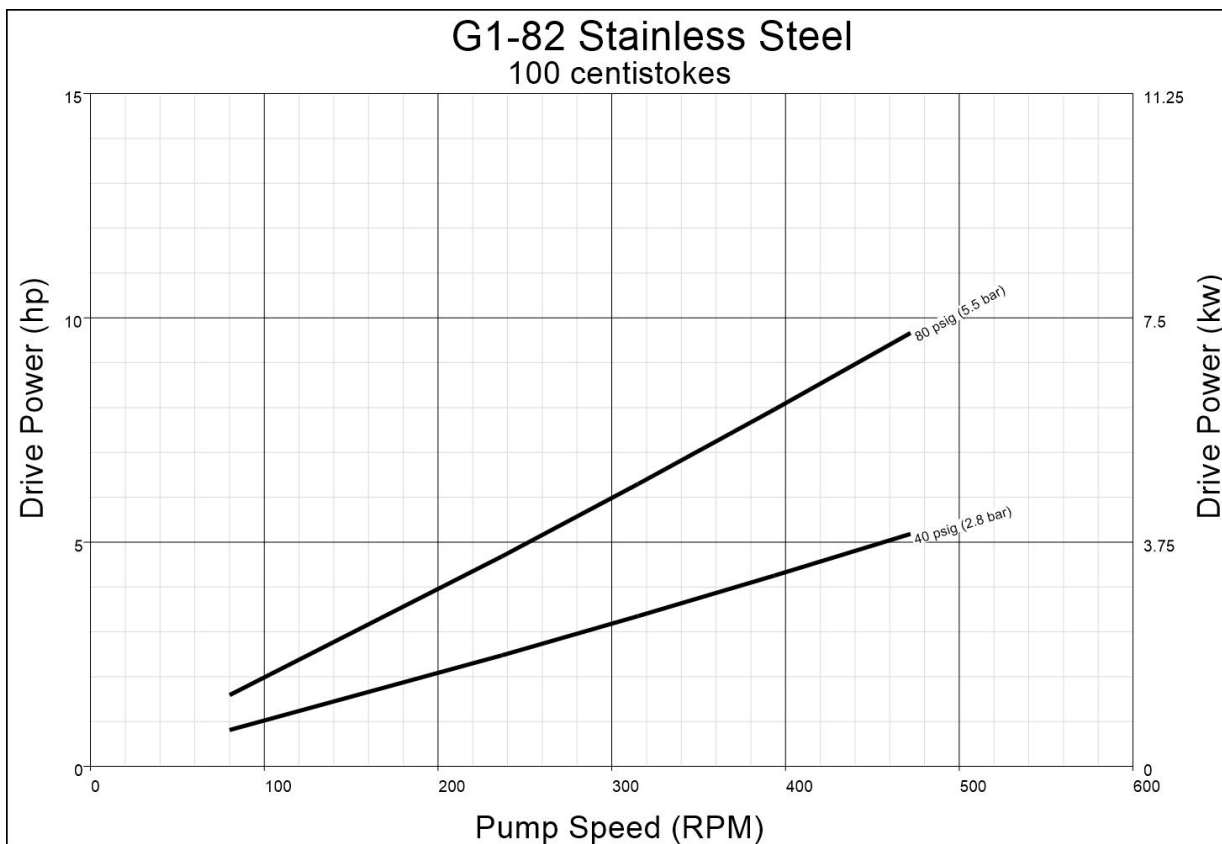
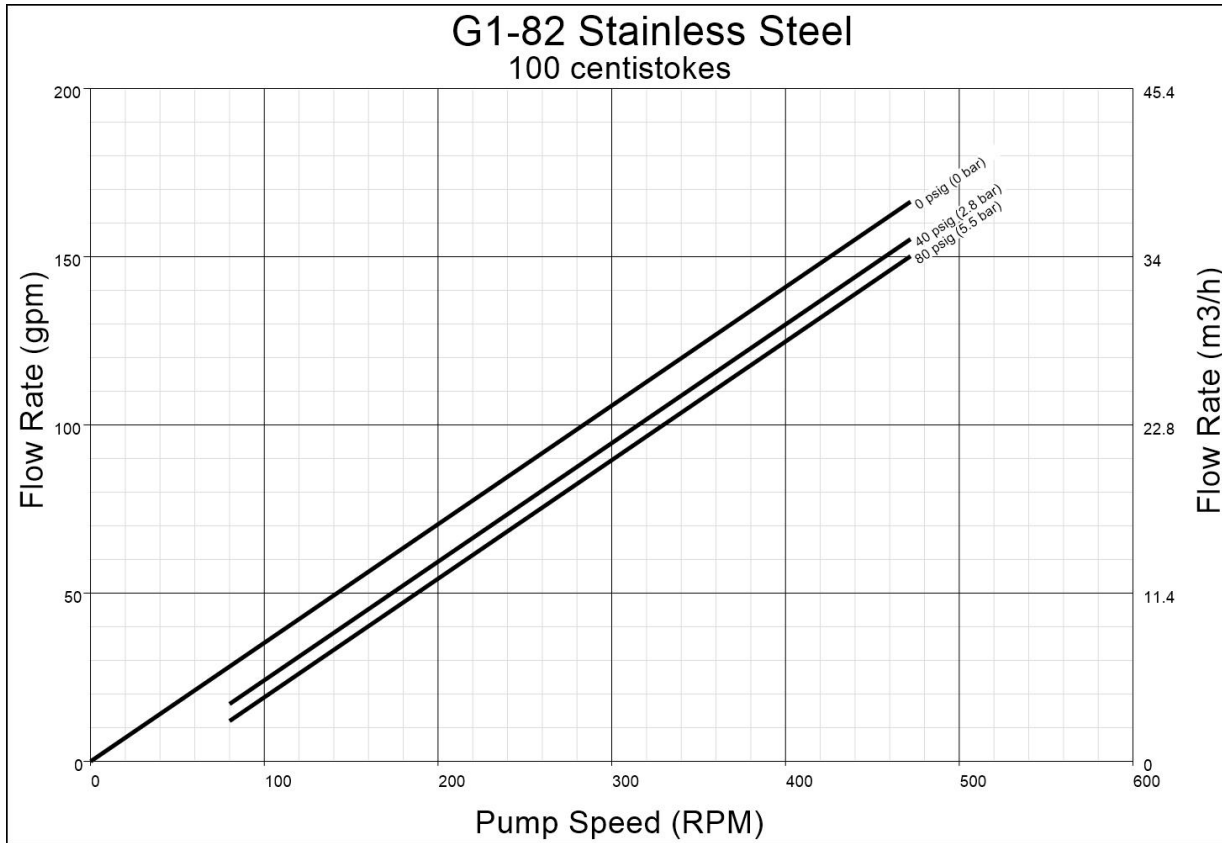


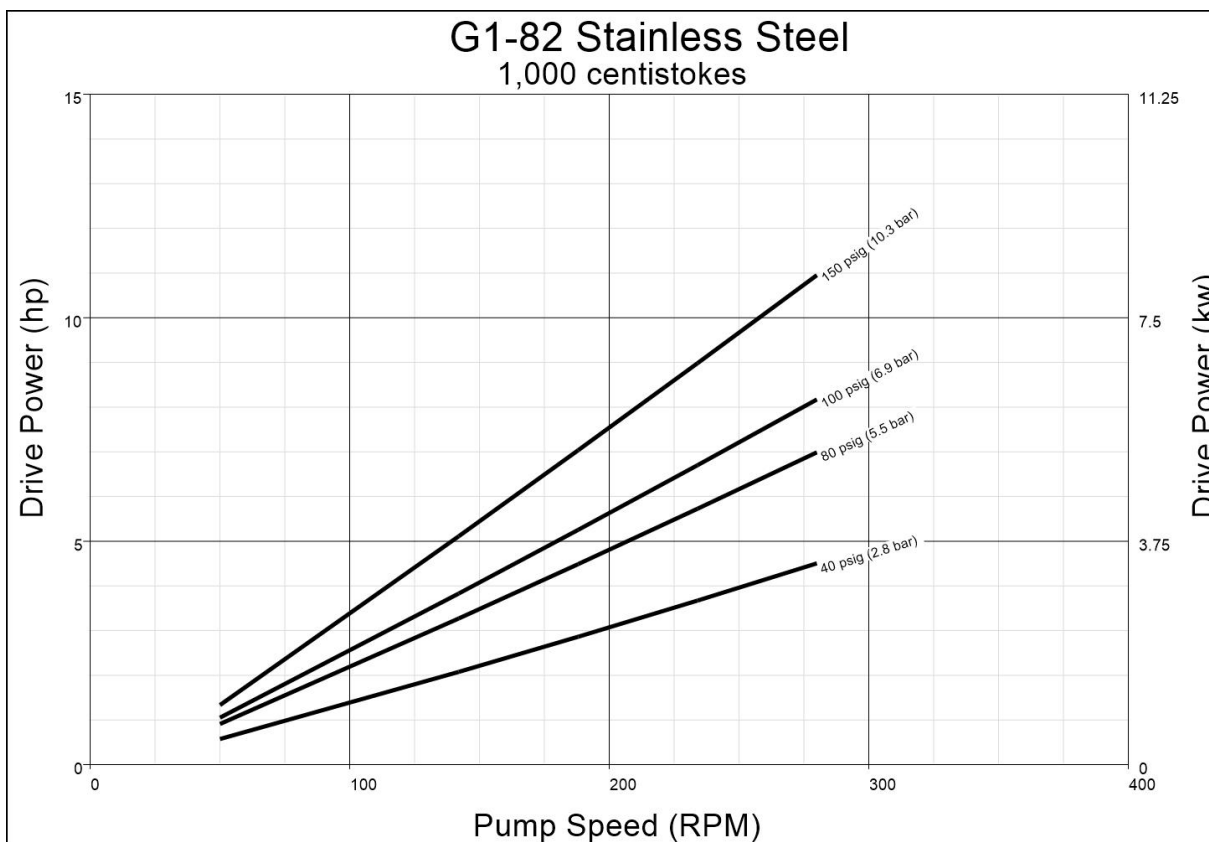
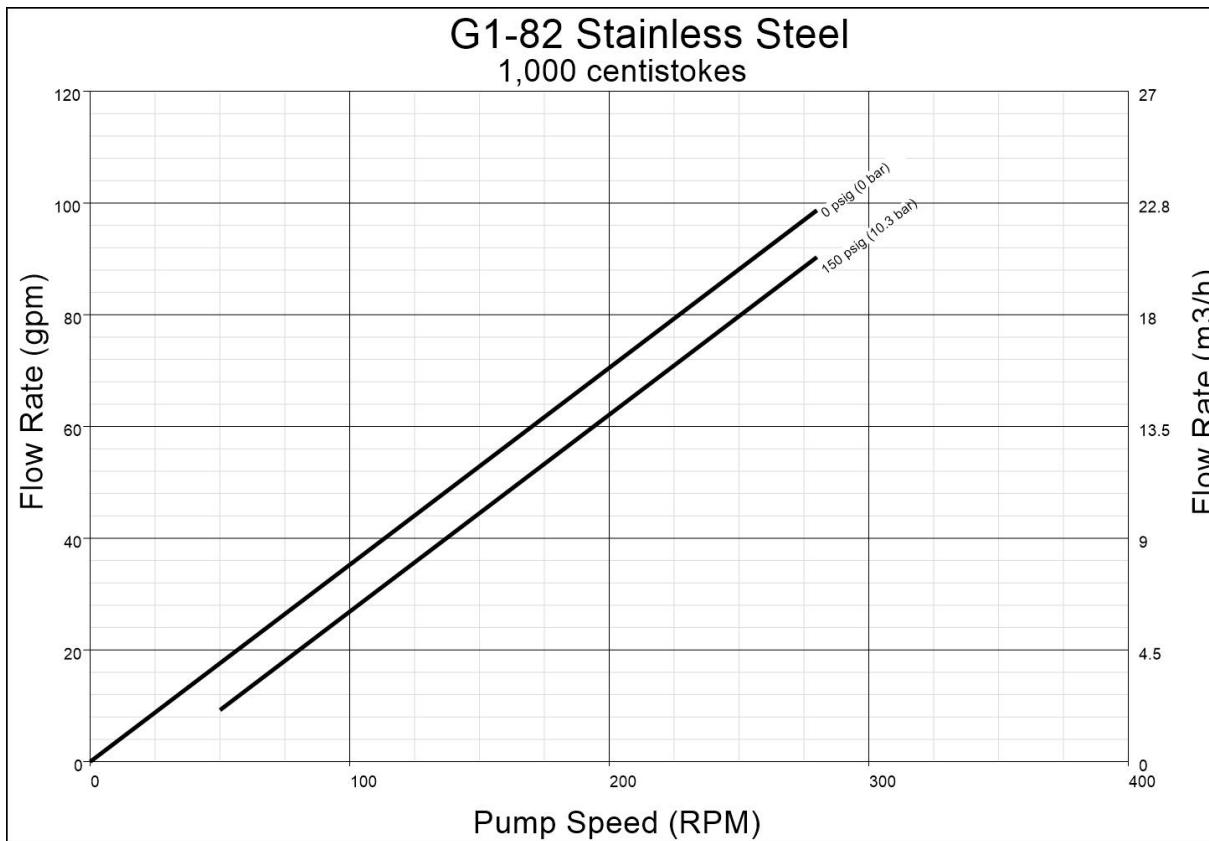


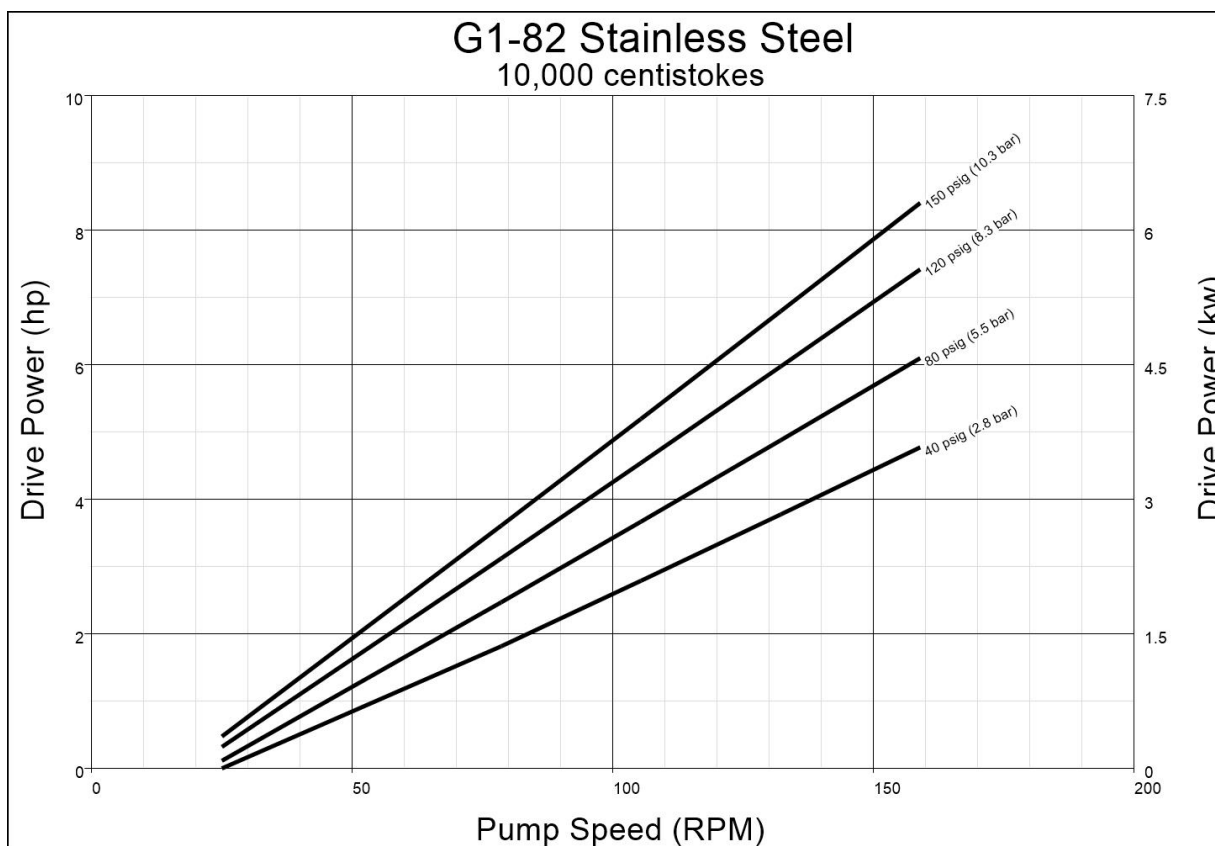
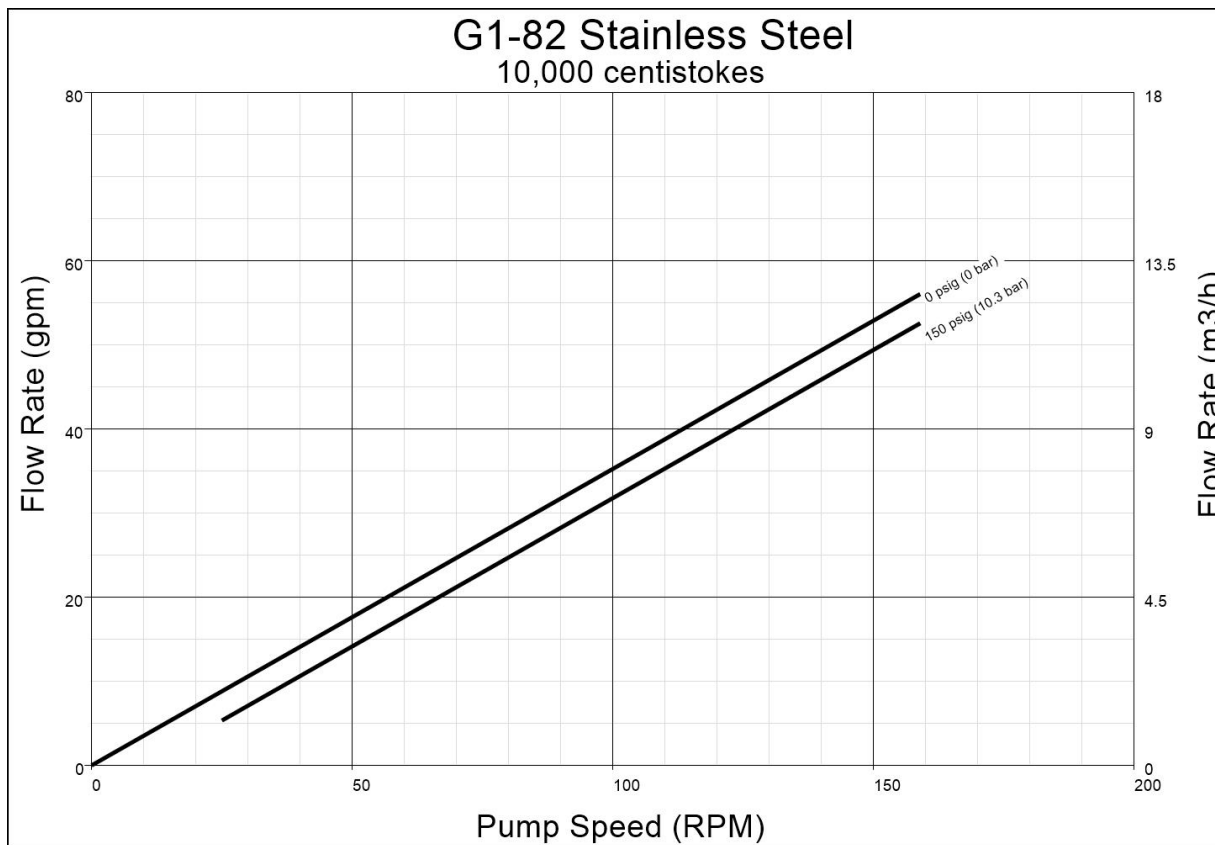


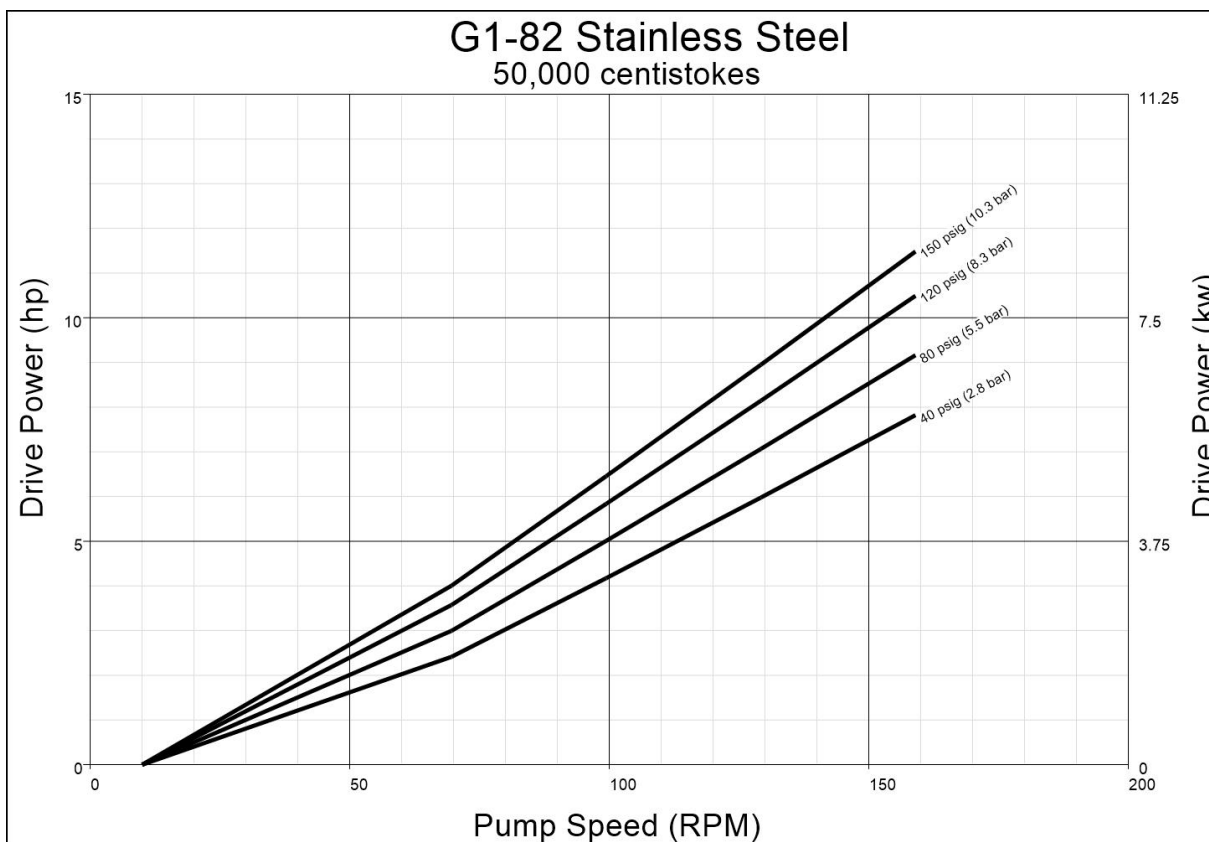
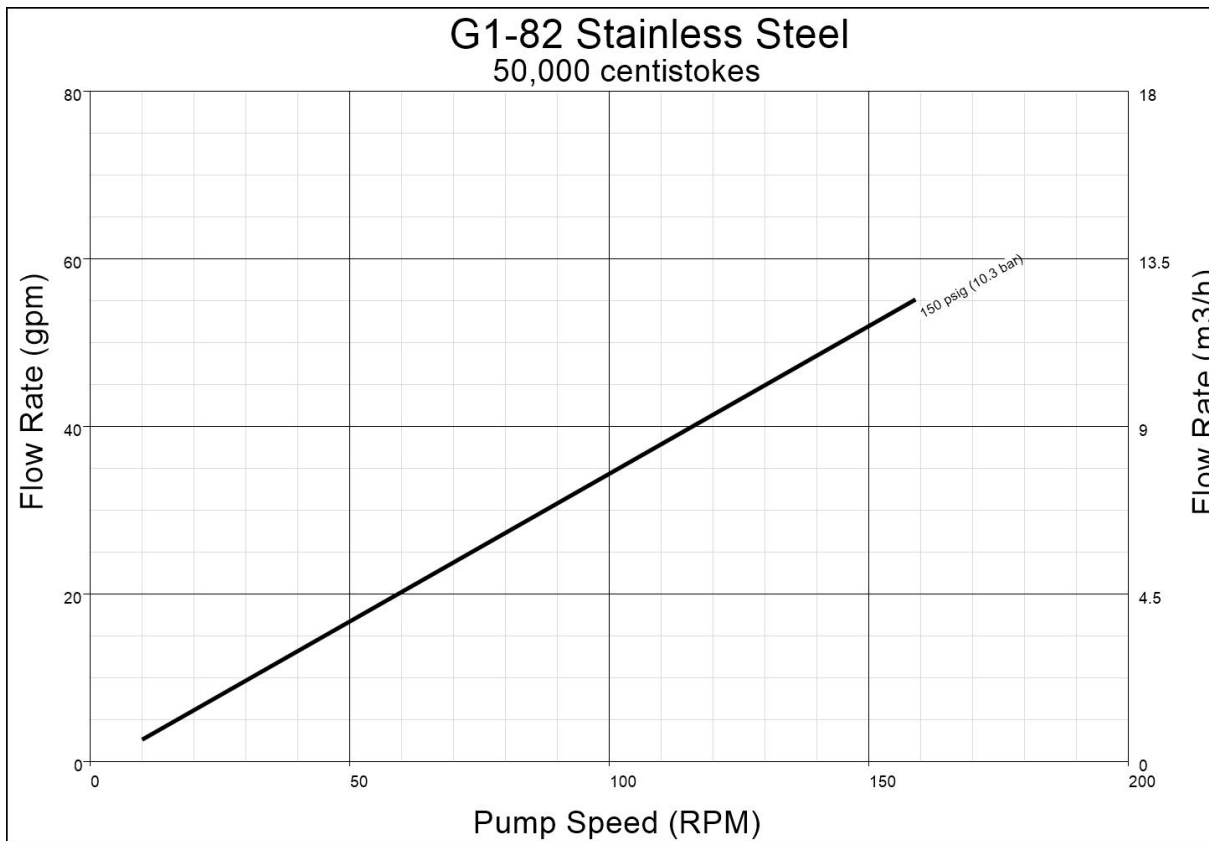


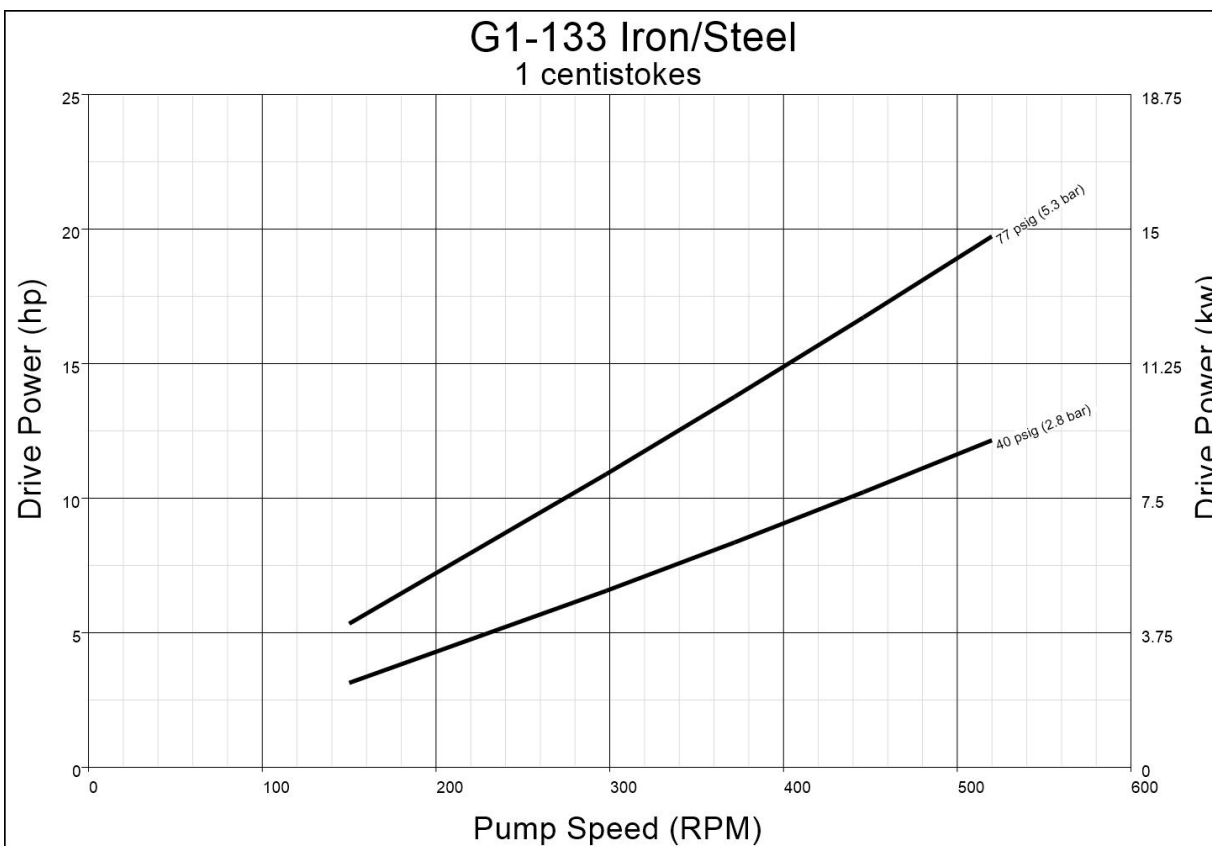
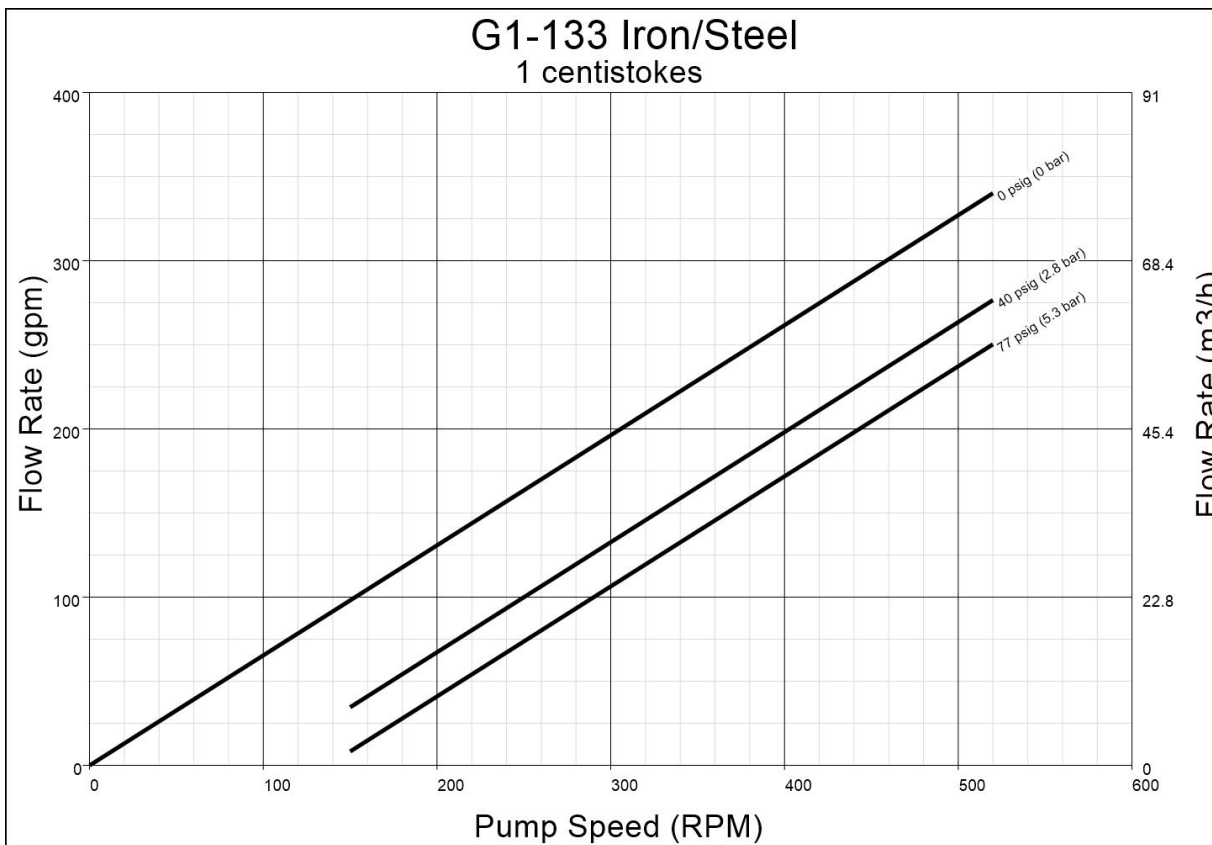




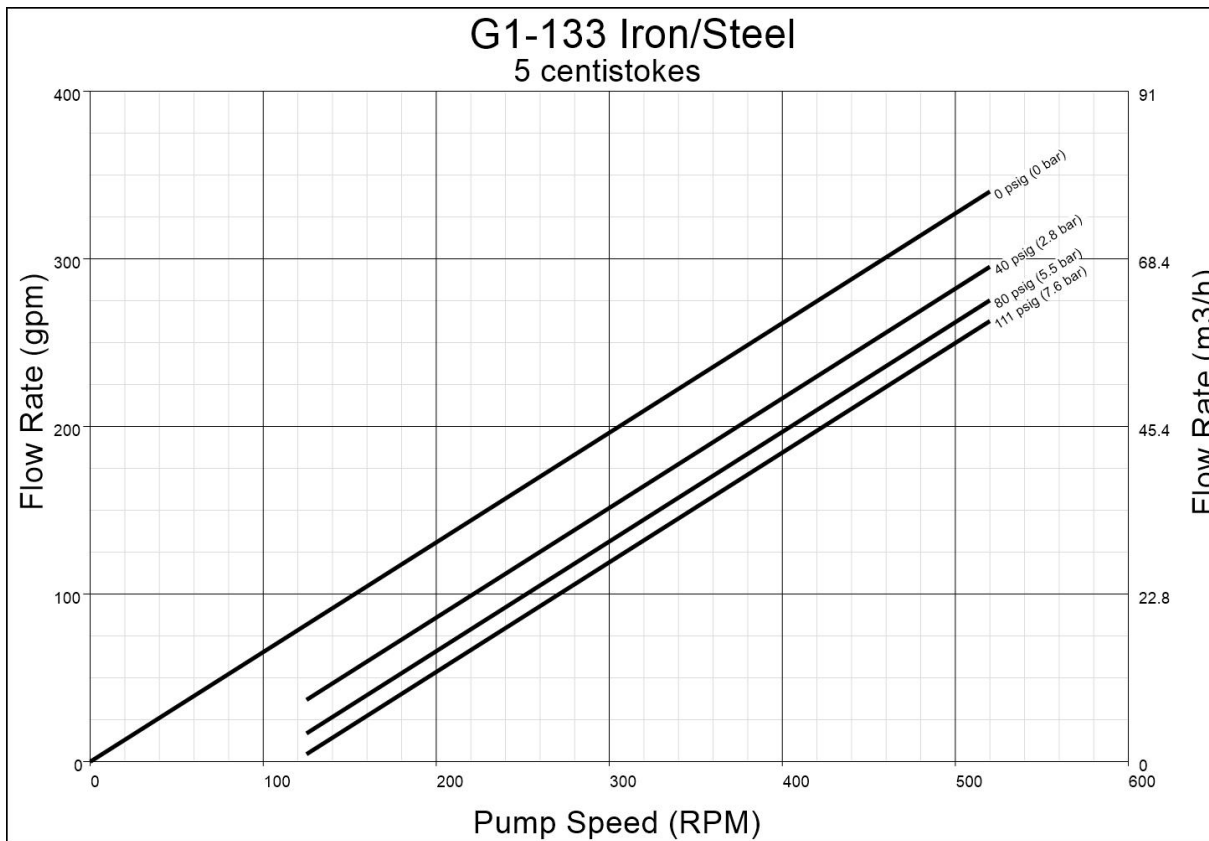




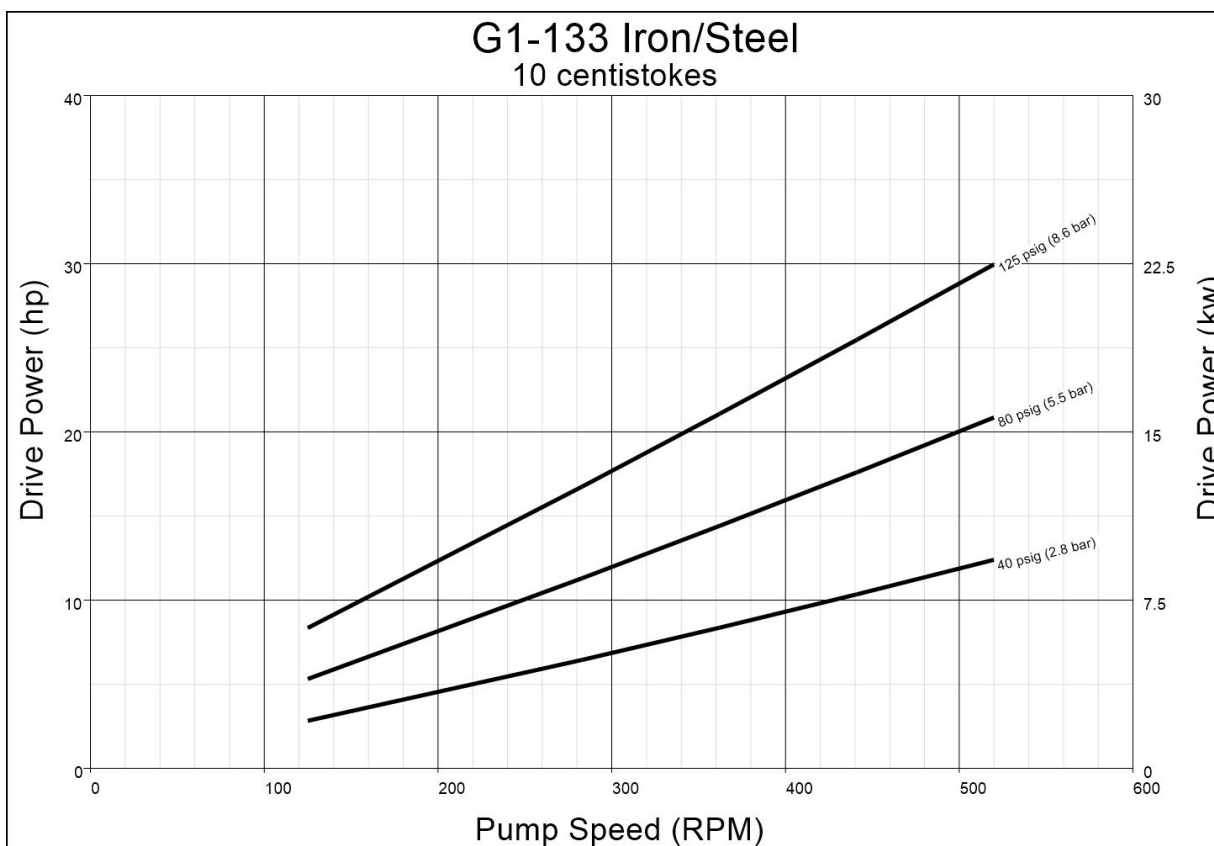
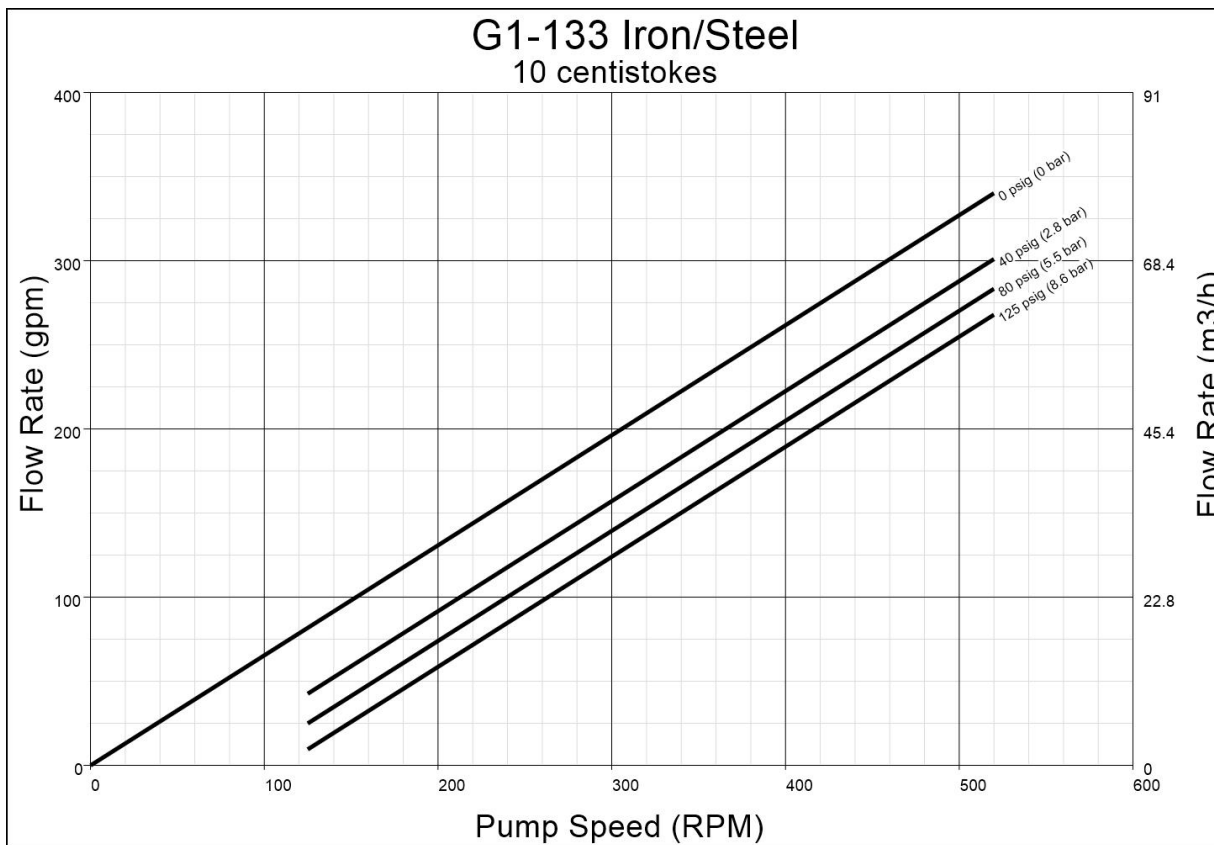




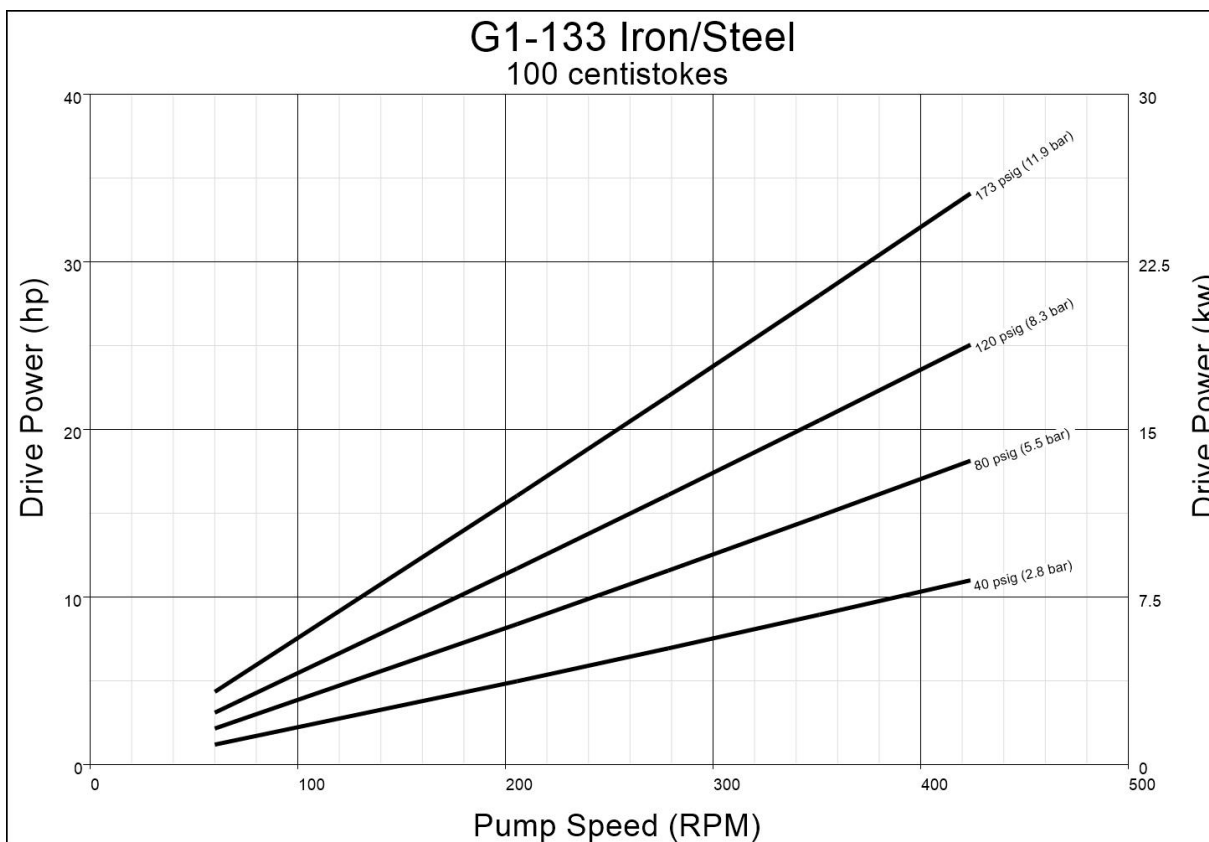
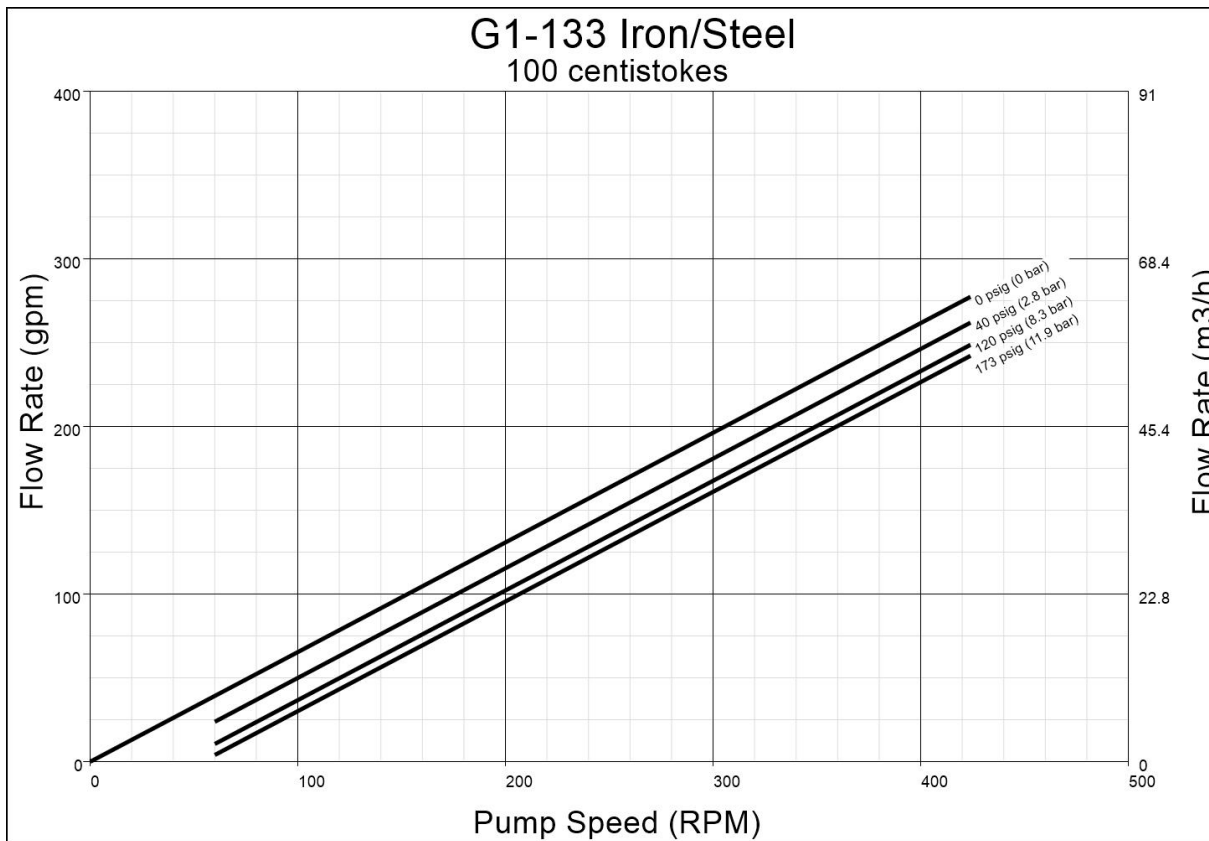
G1-133: Iron and Steel
G2-133: Iron Only



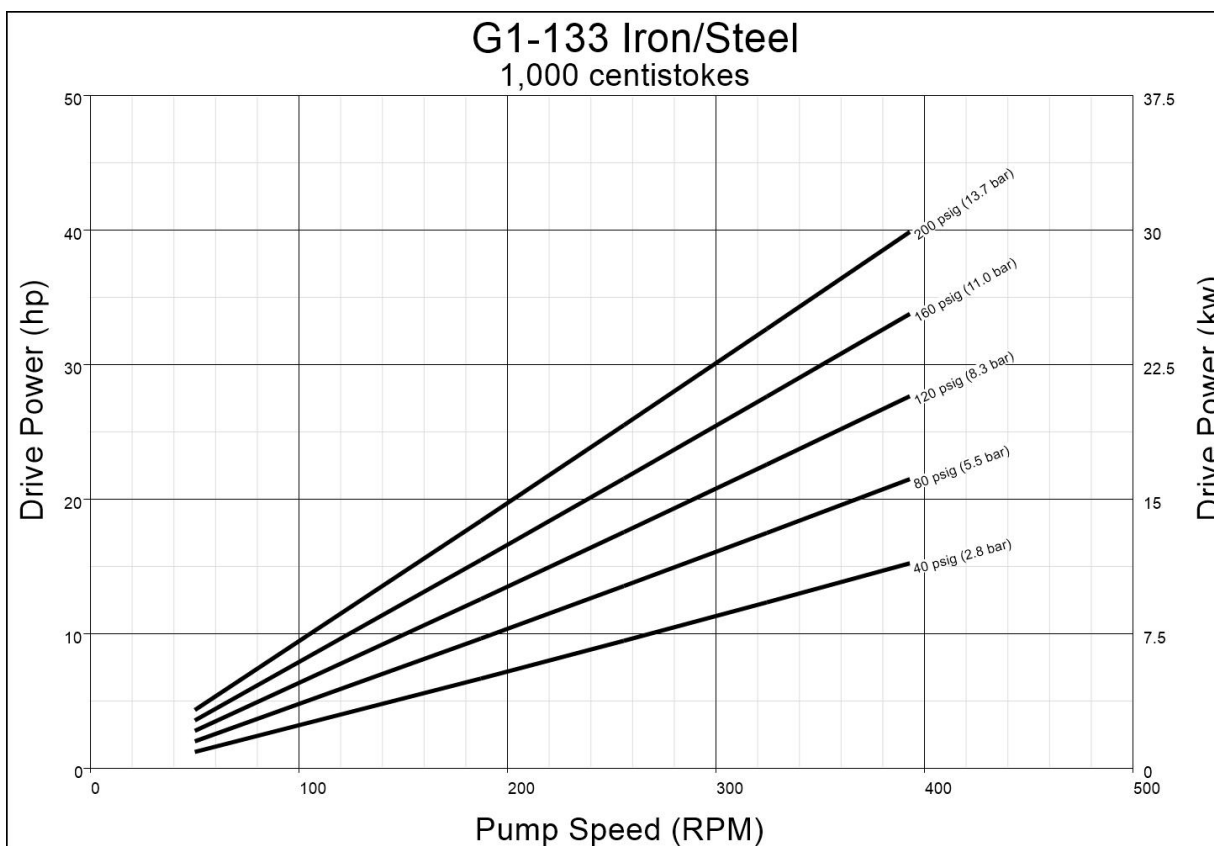
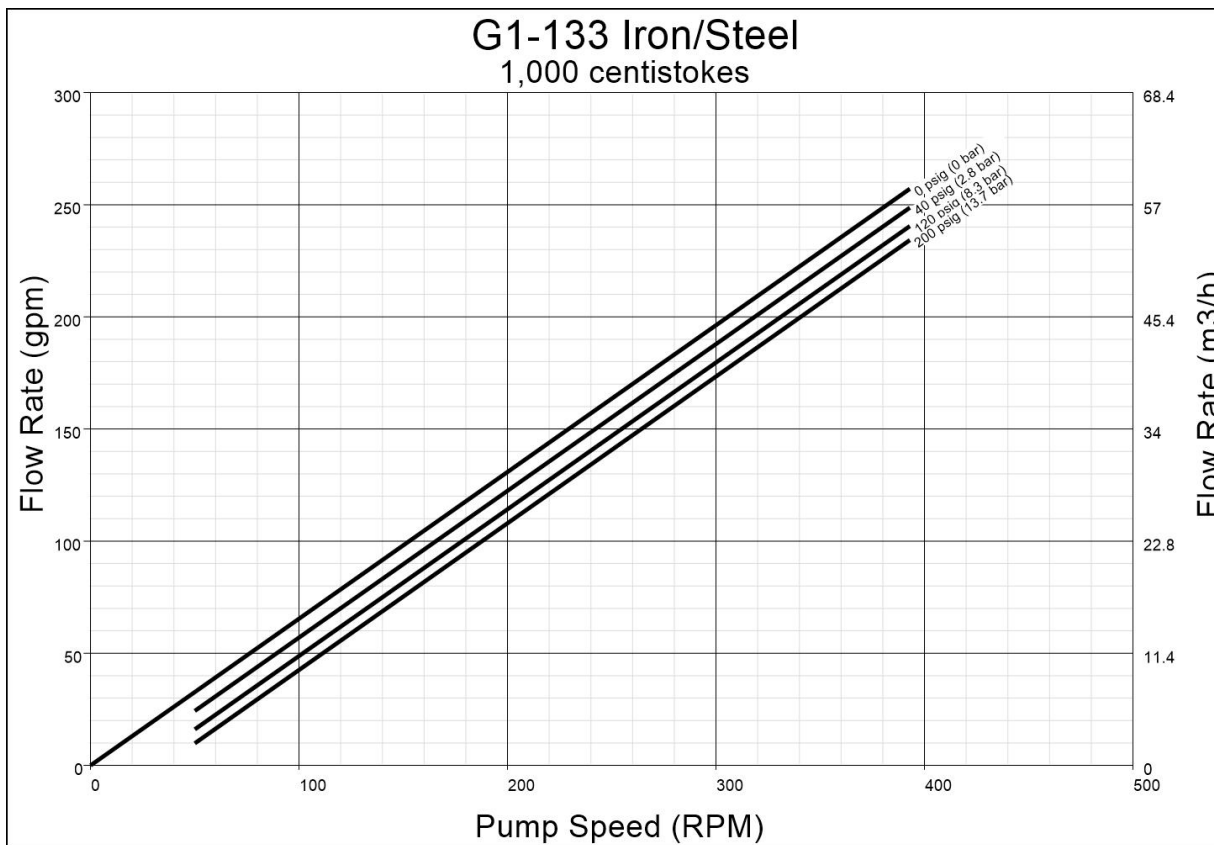
G1-133: Iron and Steel
G2-133: Iron Only

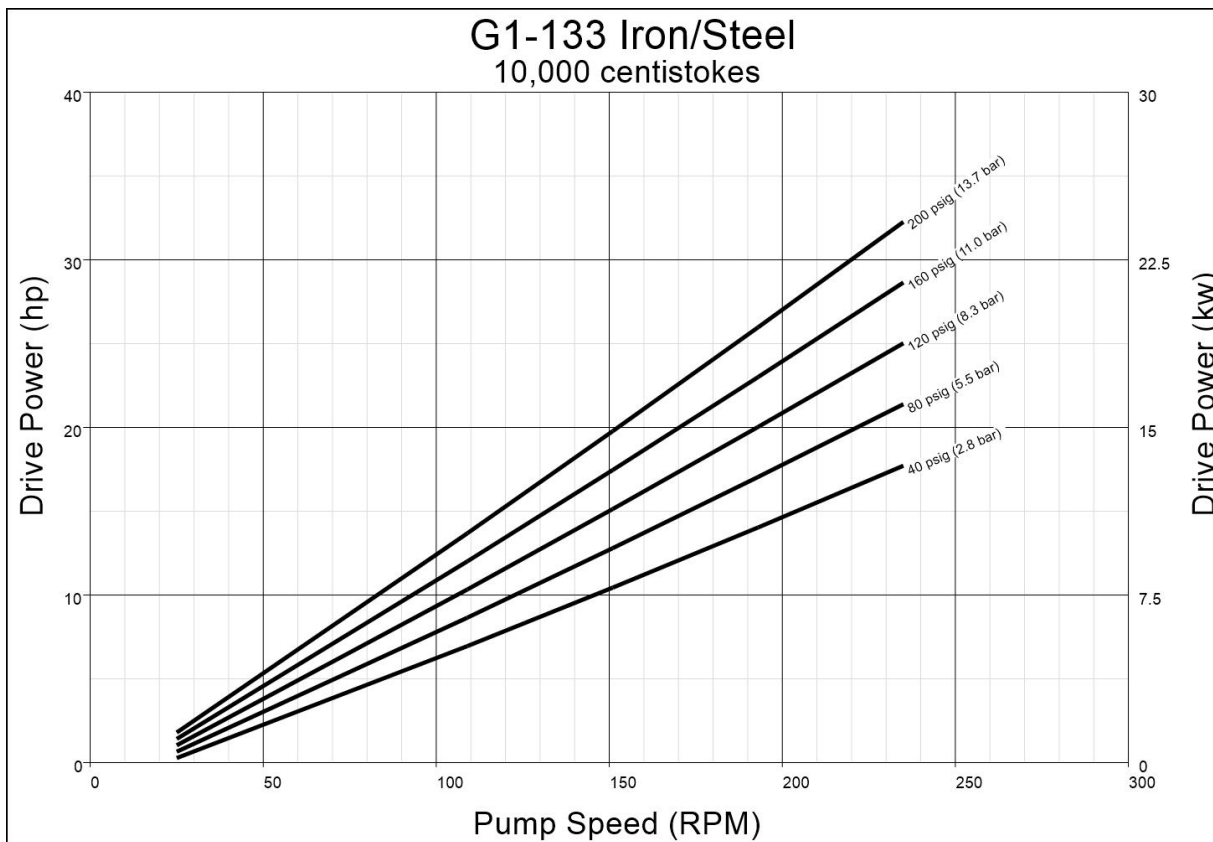
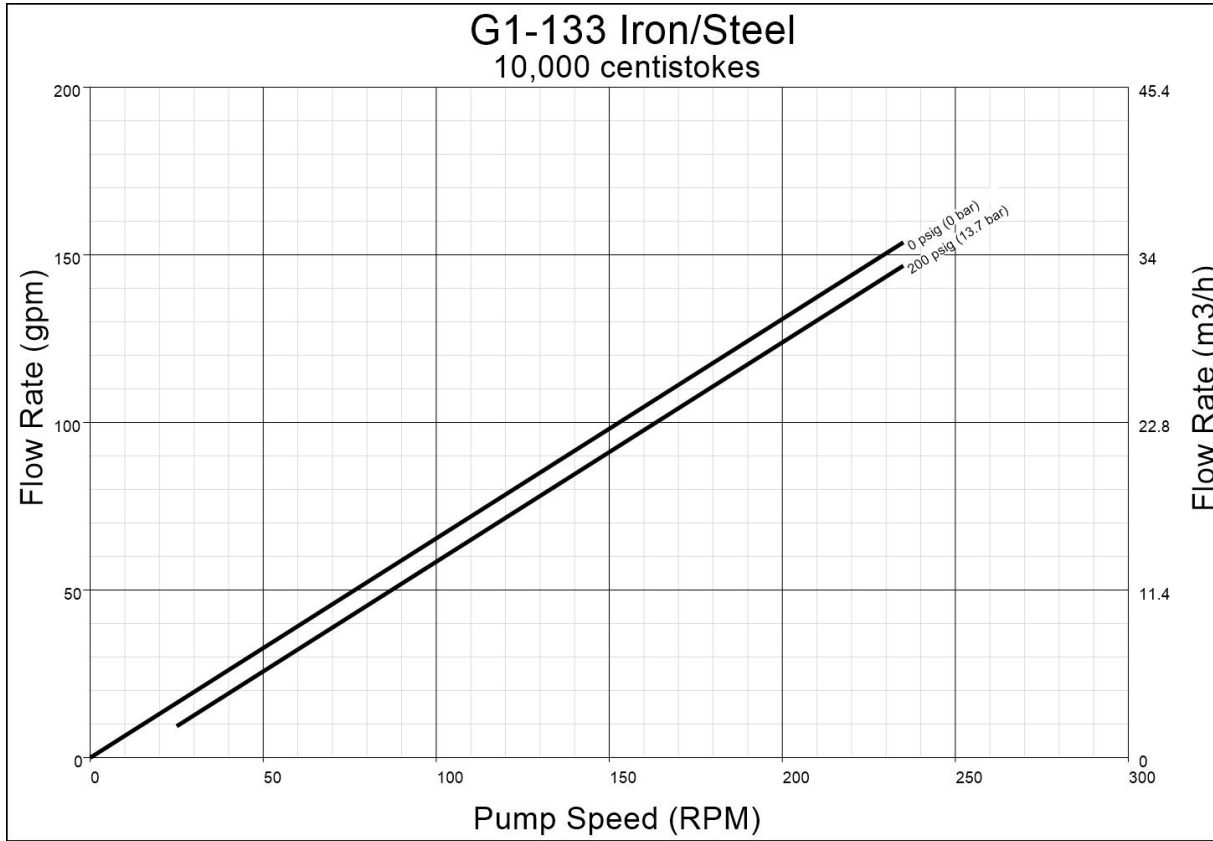


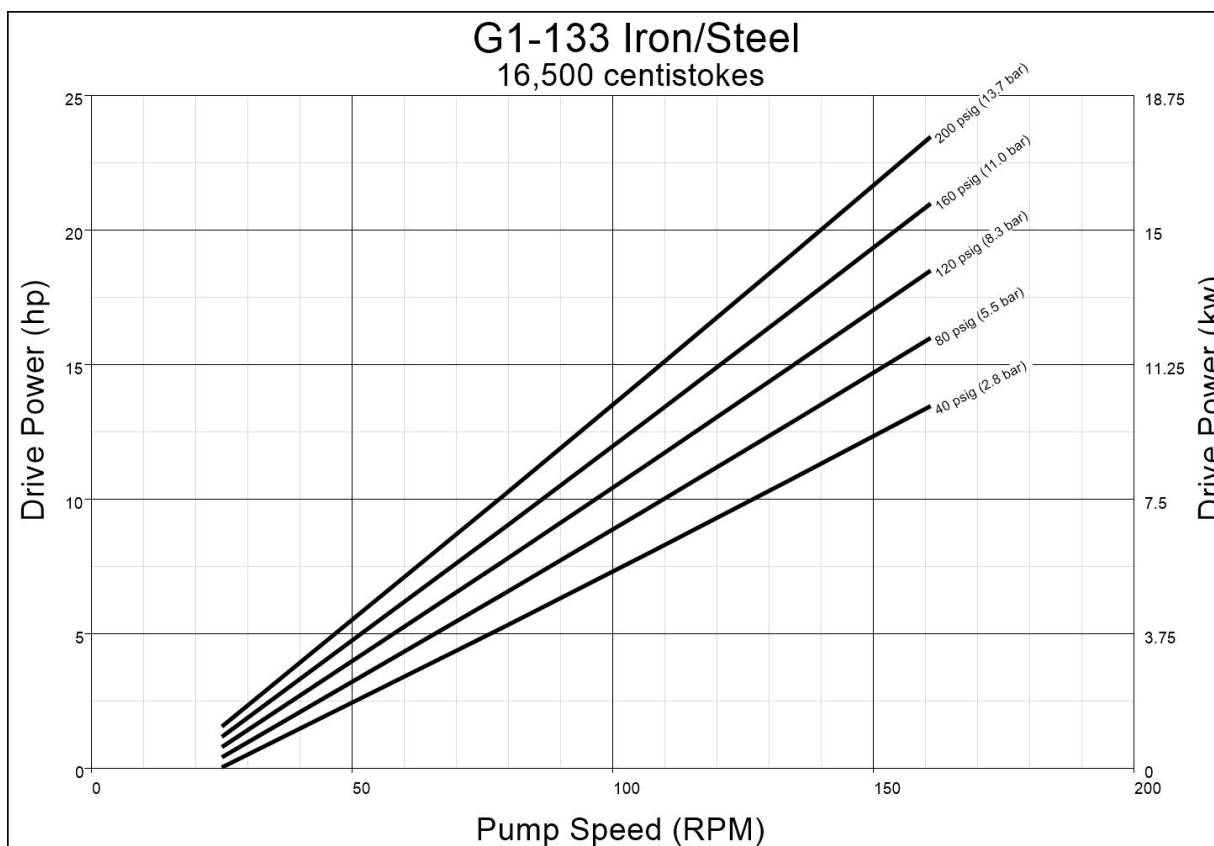
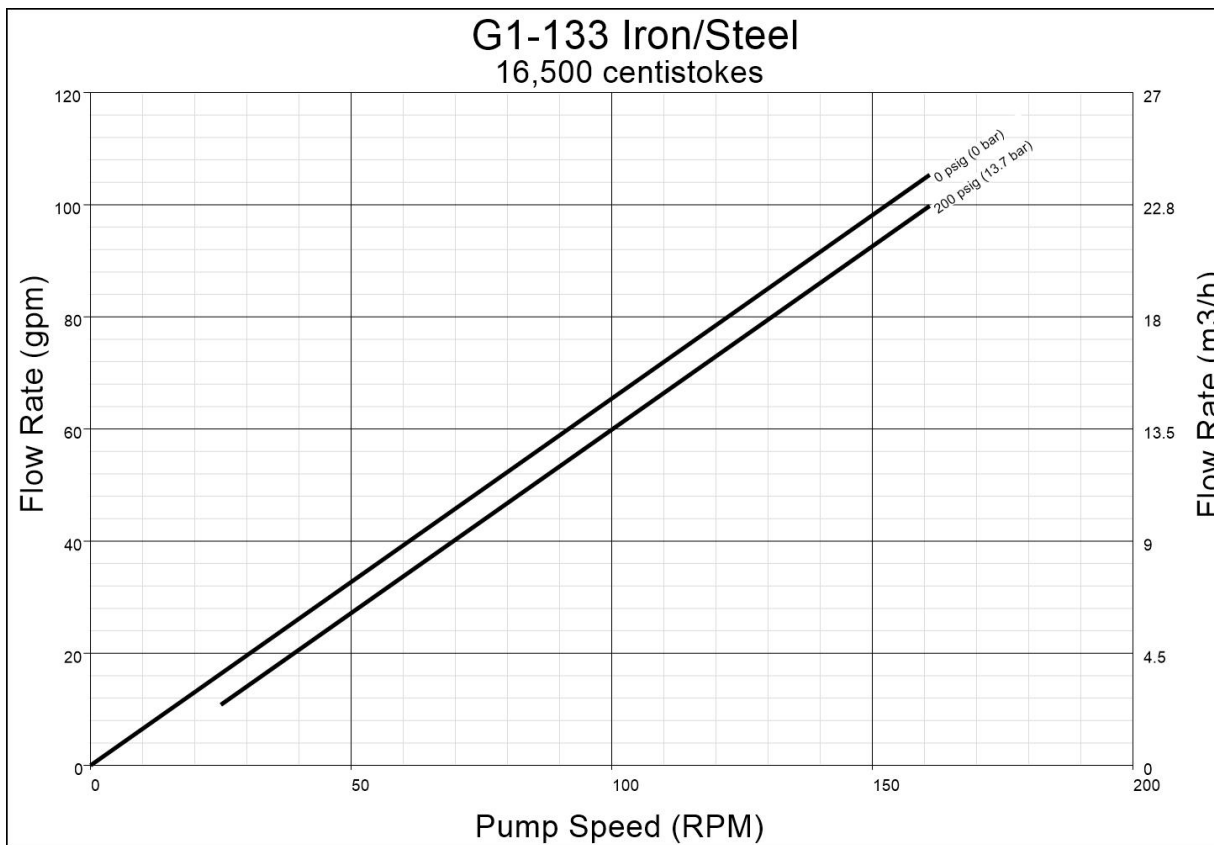
G1-133: Iron and Steel
G2-133: Iron Only

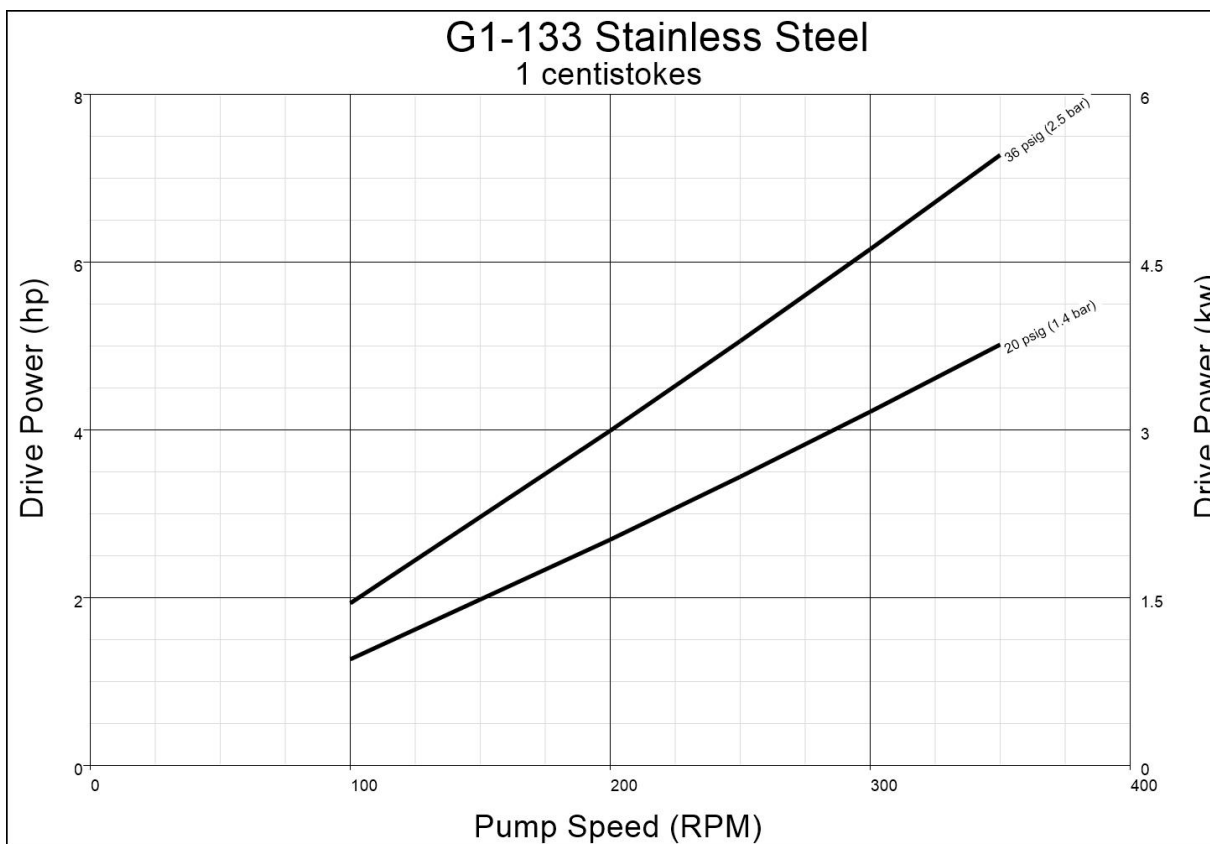
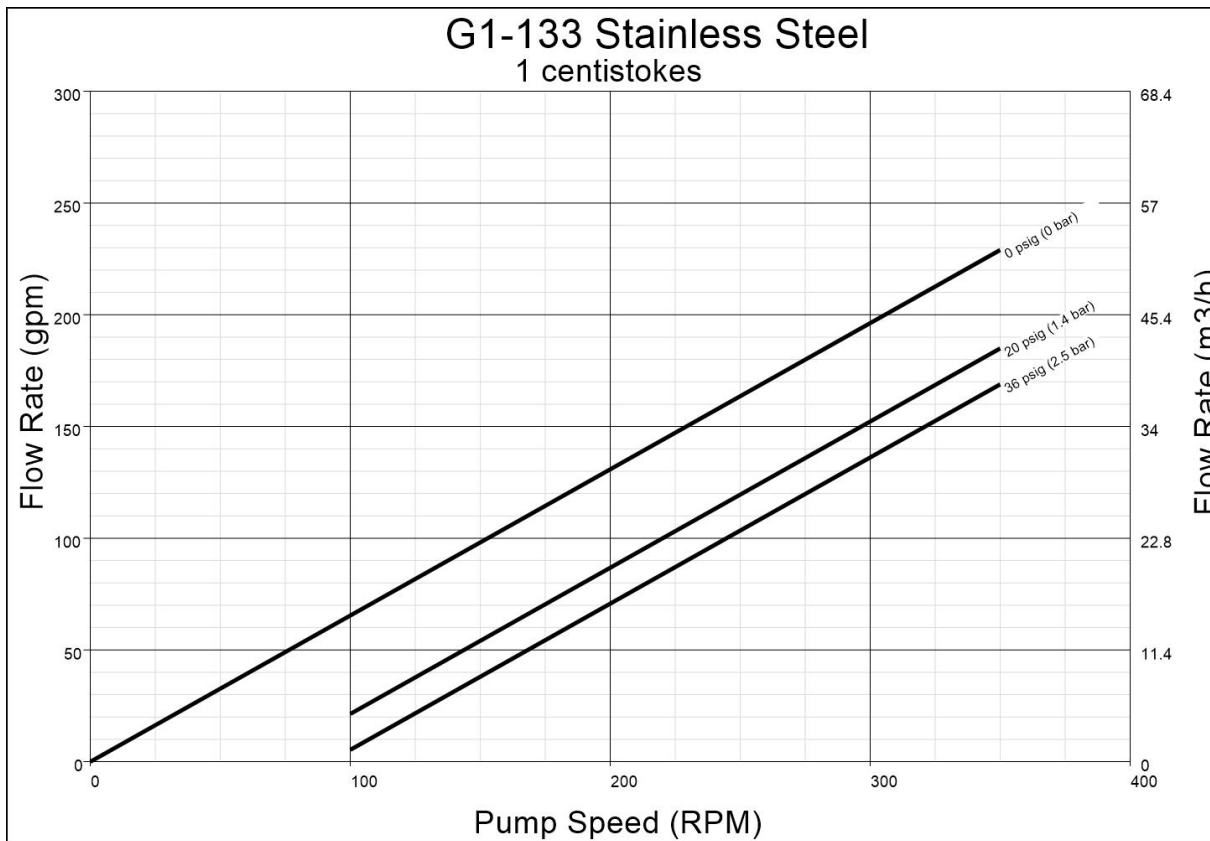


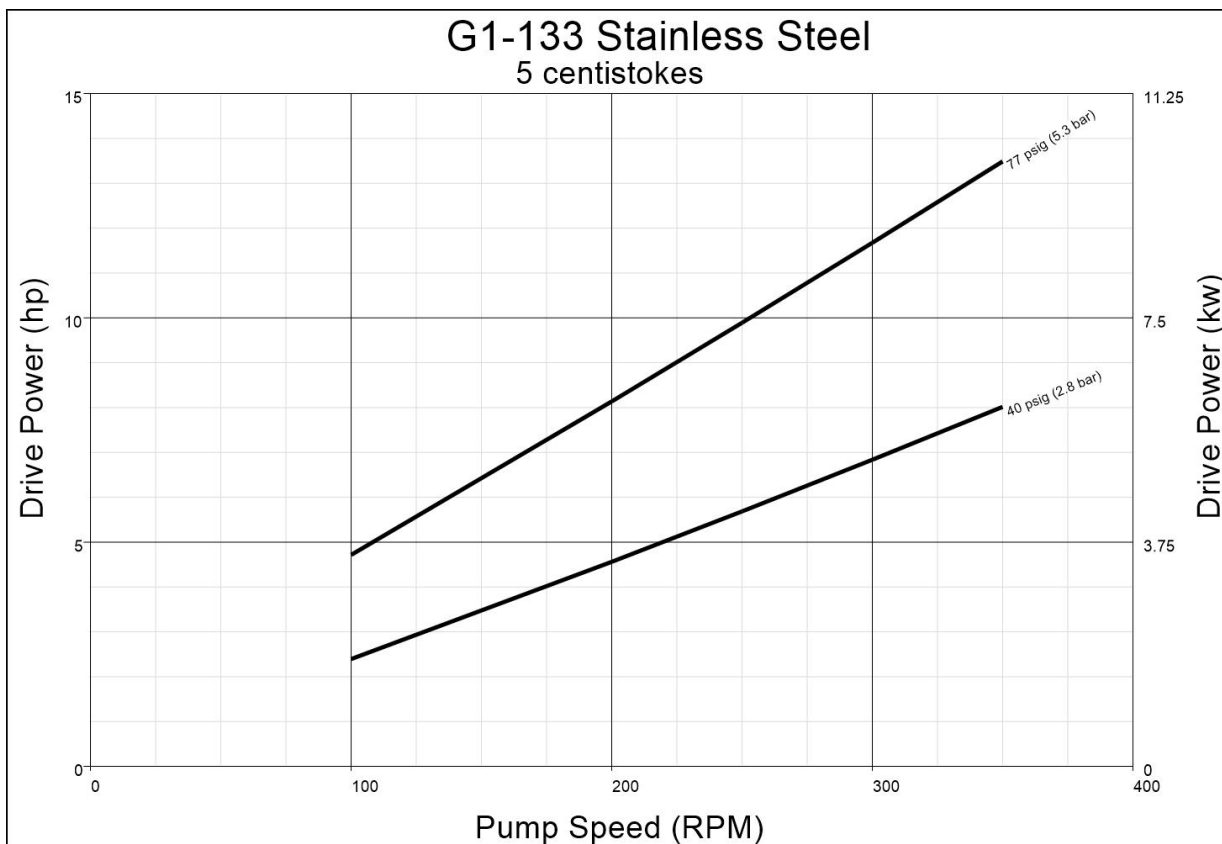
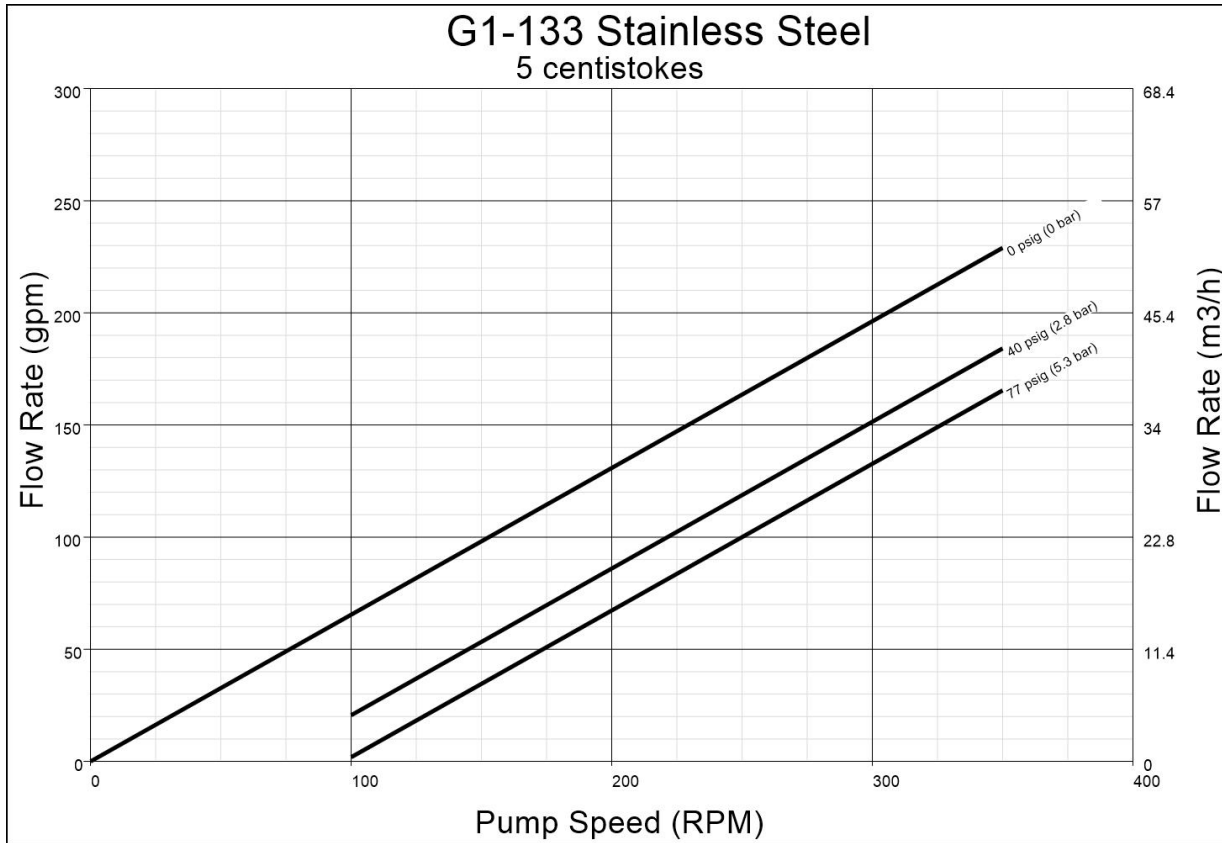
G1-133: Iron and Steel
G2-133: Iron Only

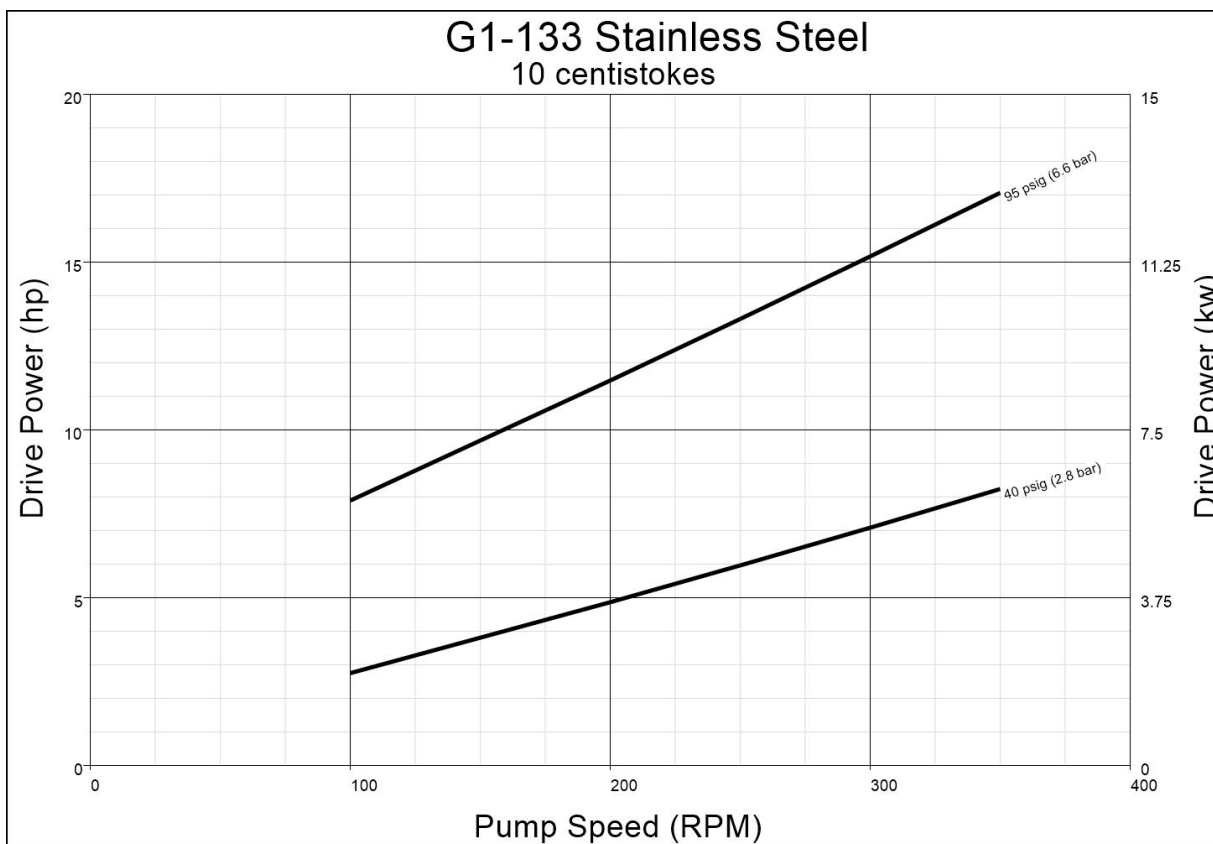
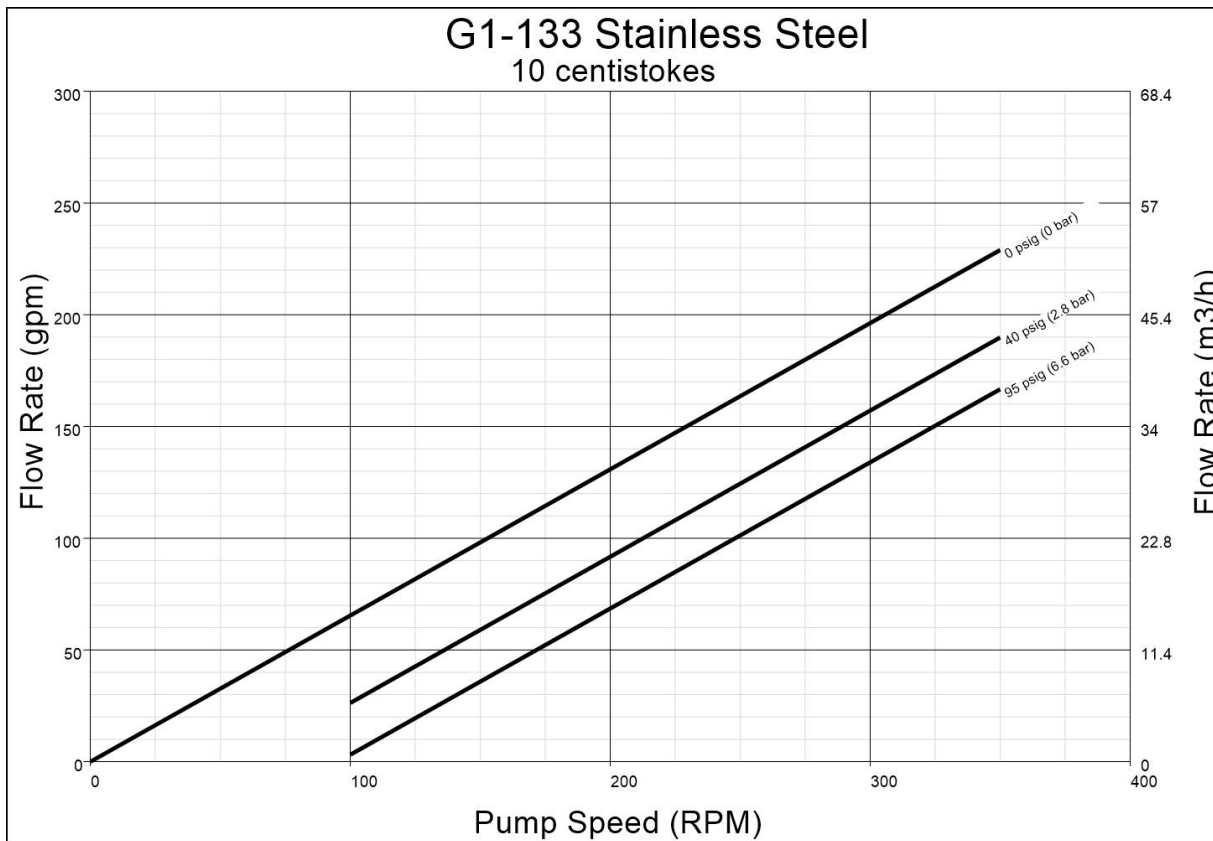


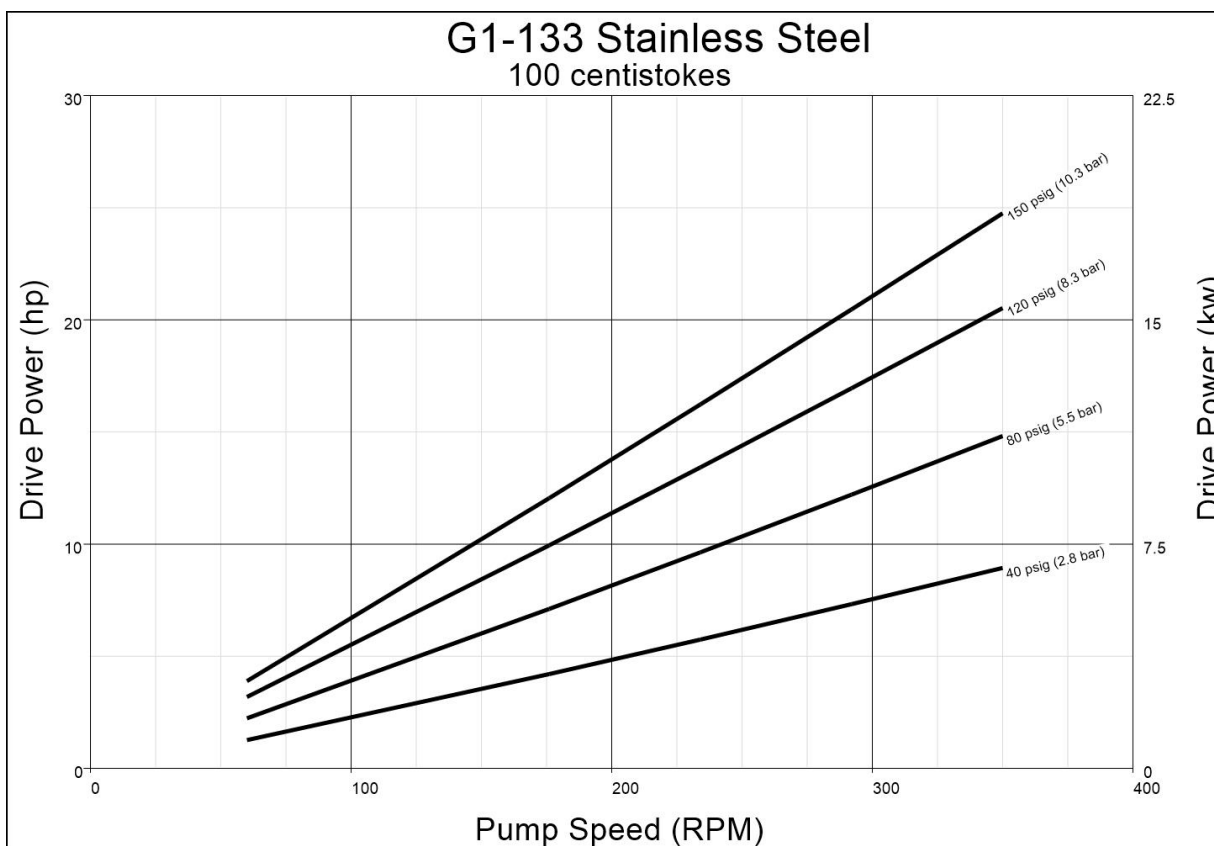
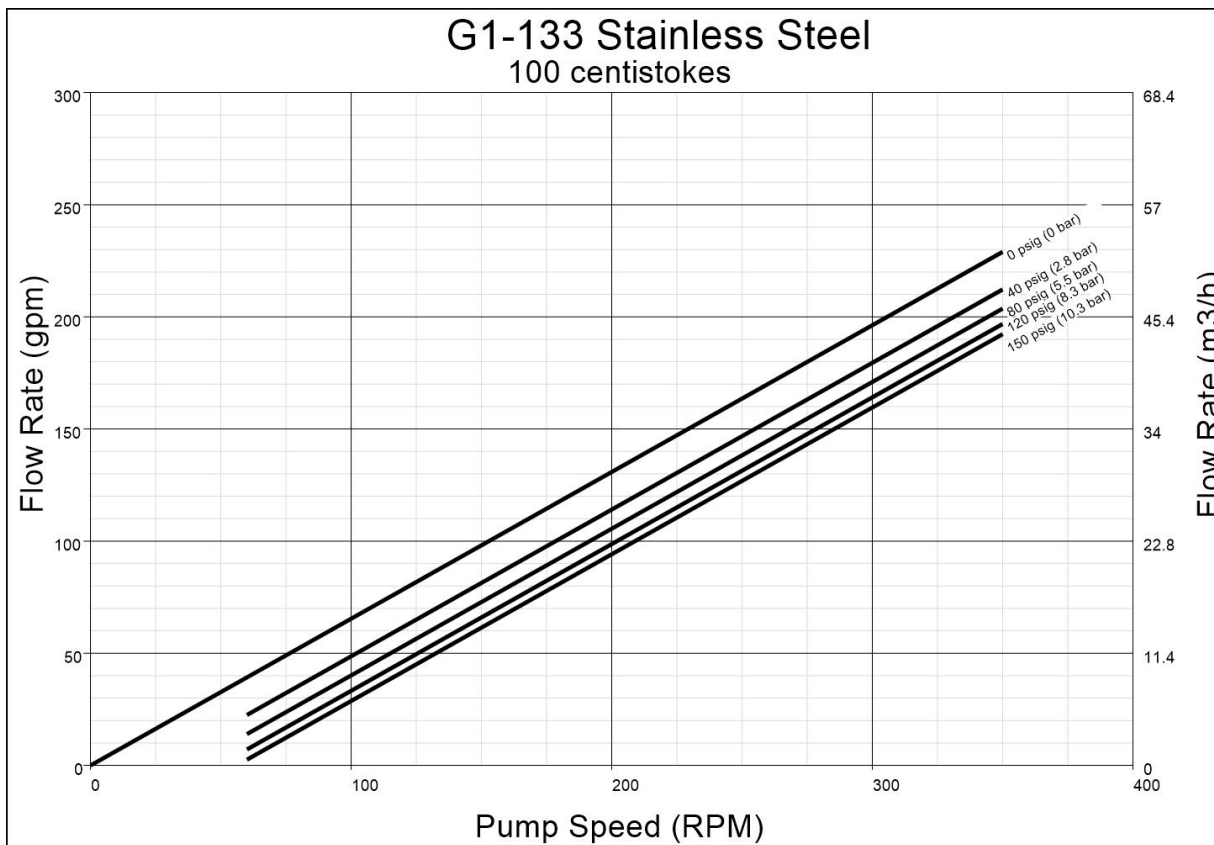


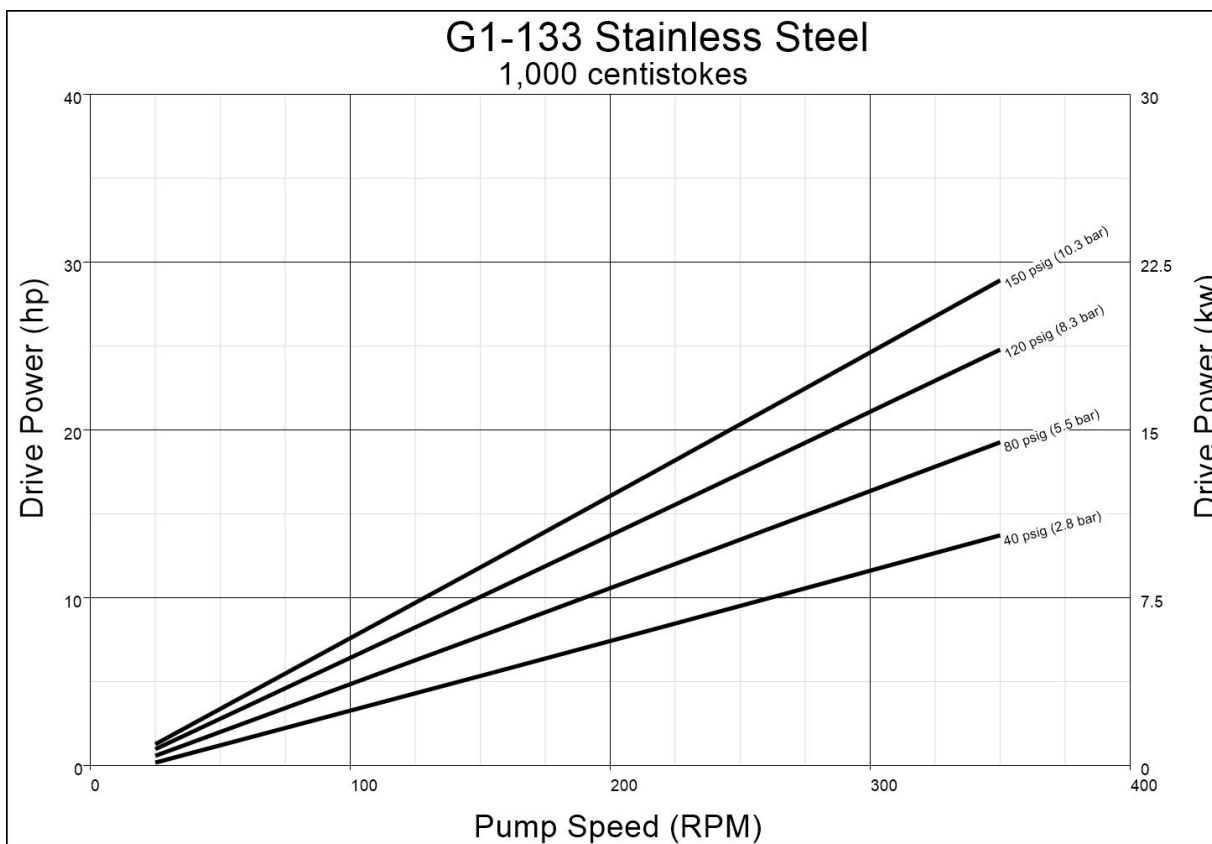
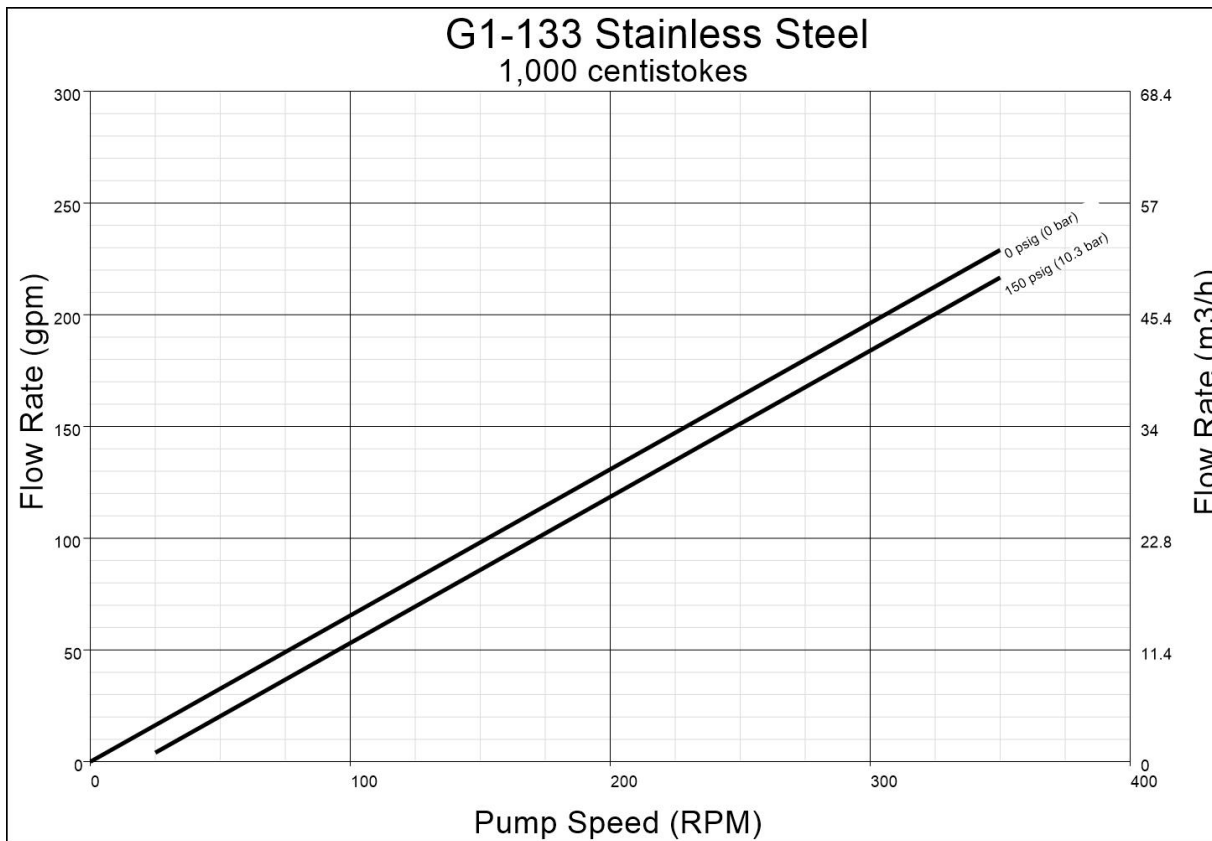


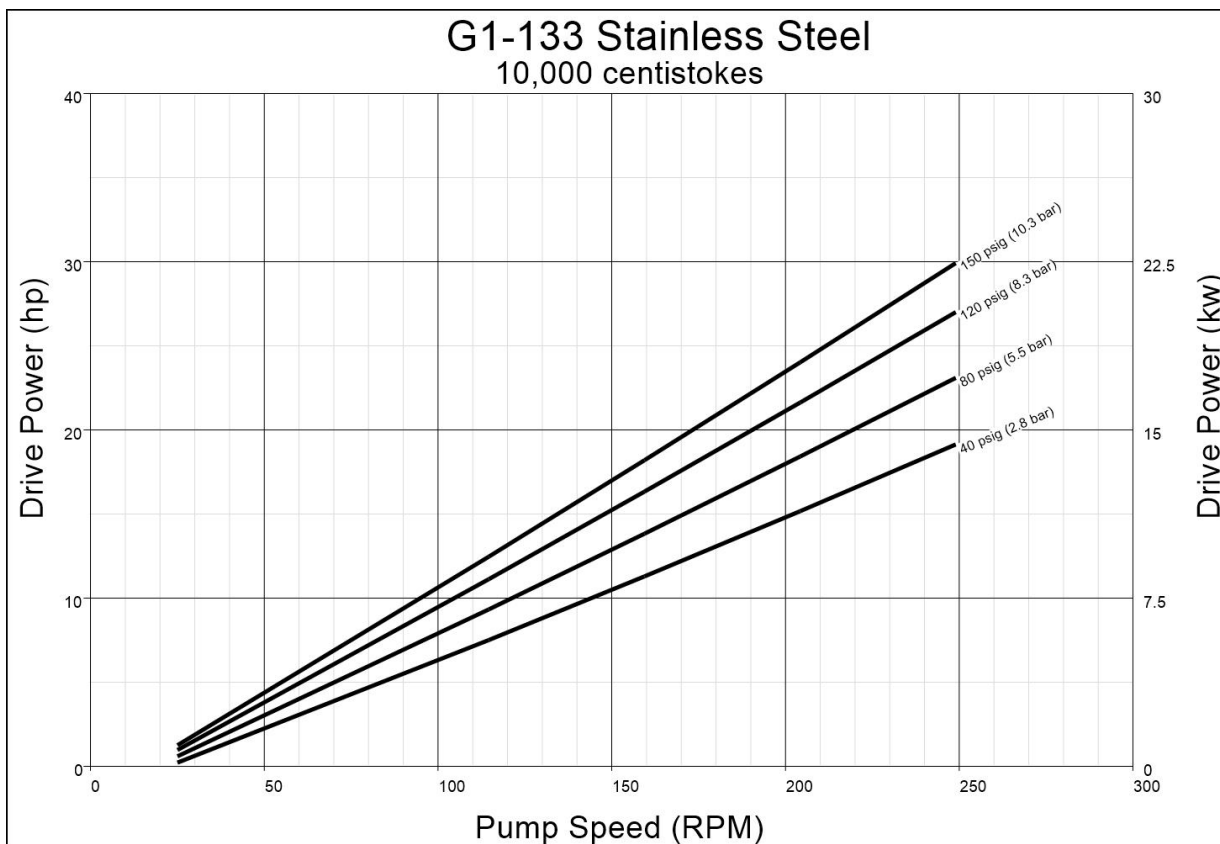
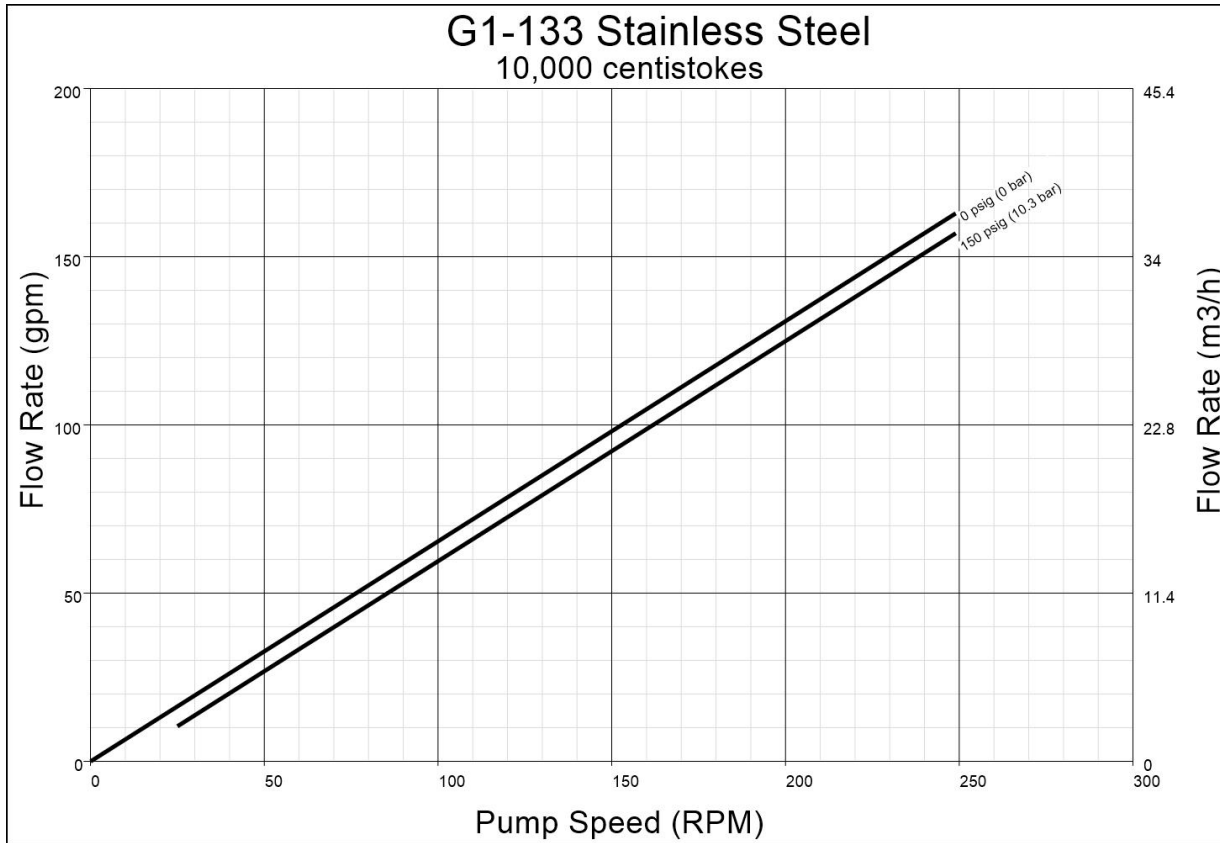


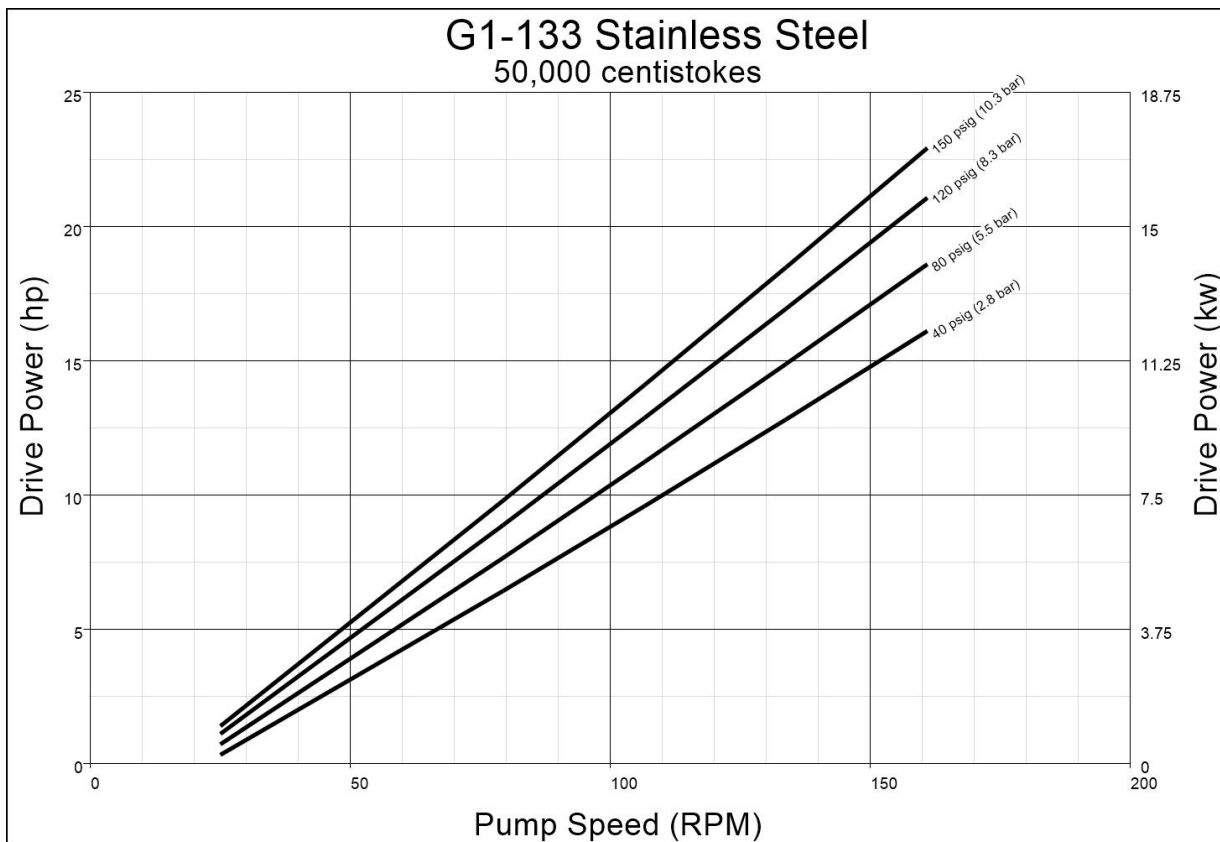
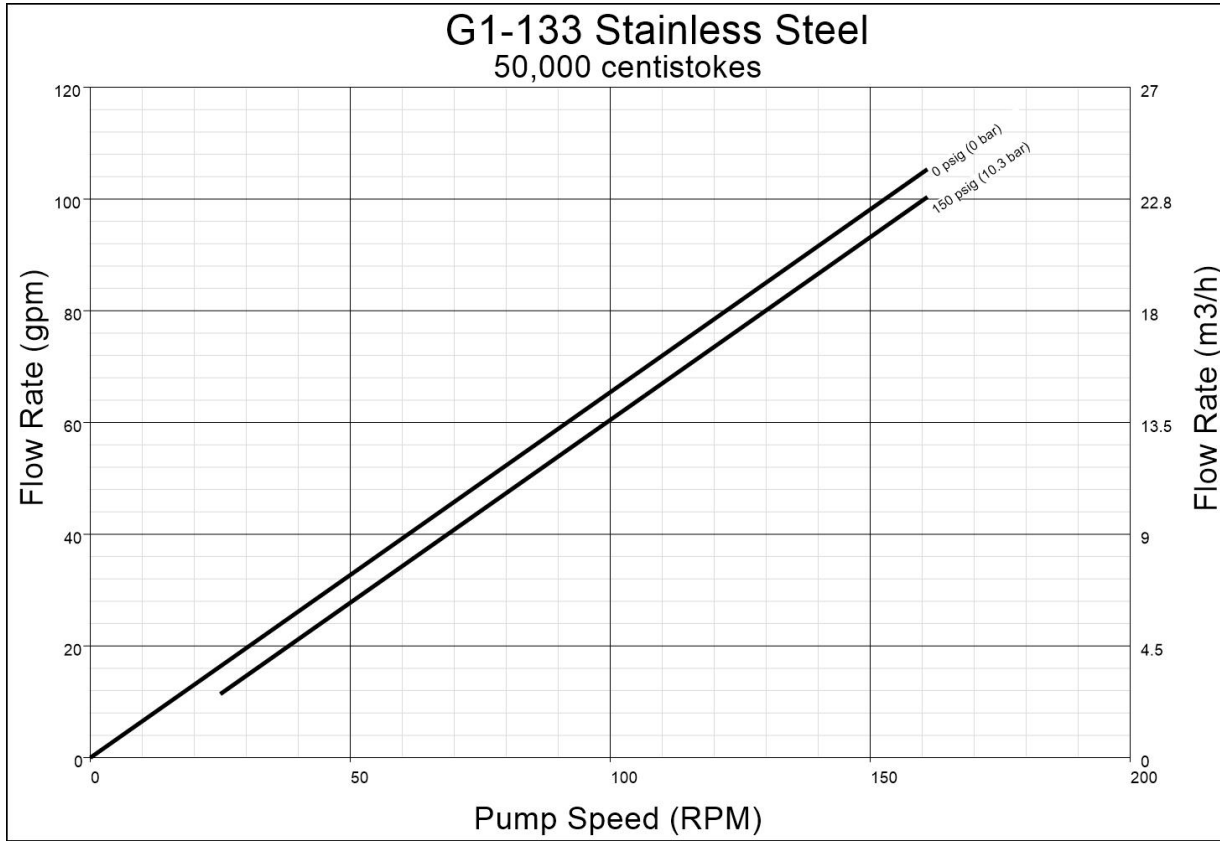




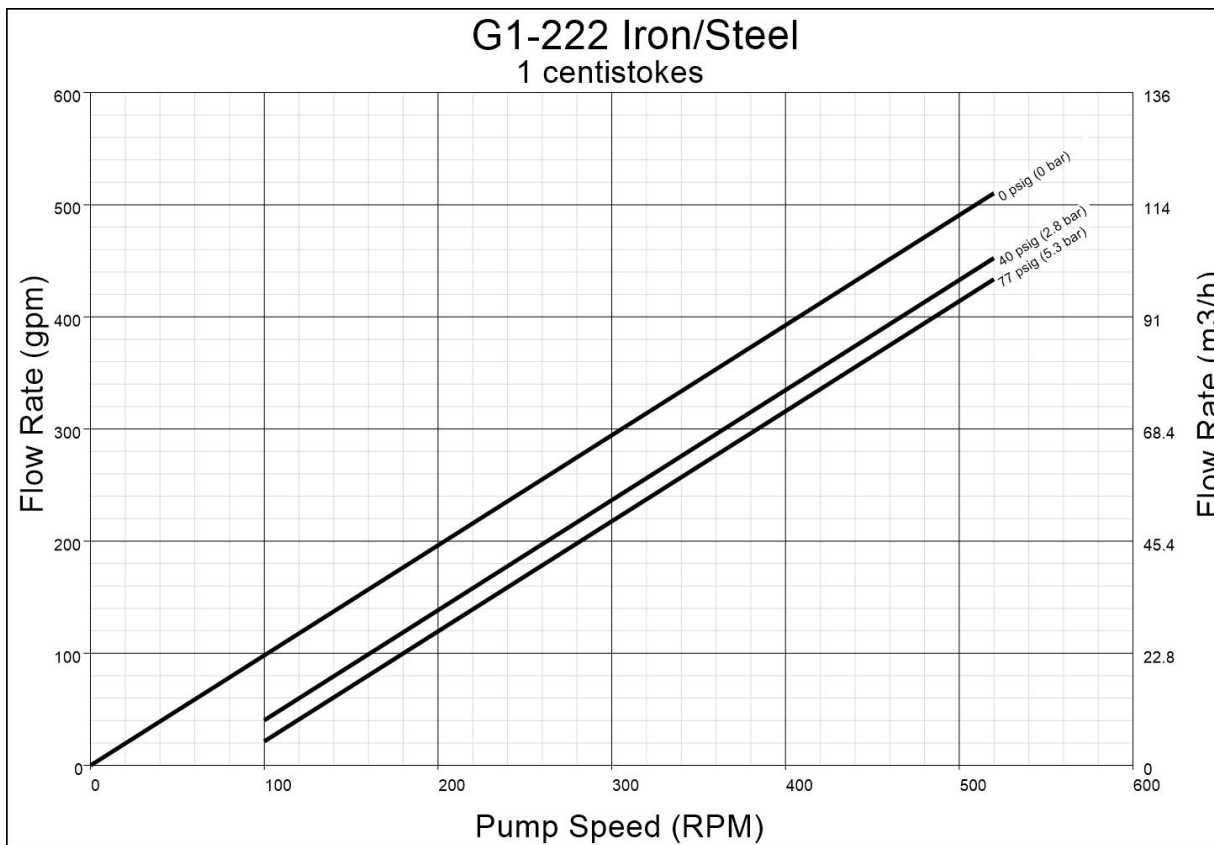


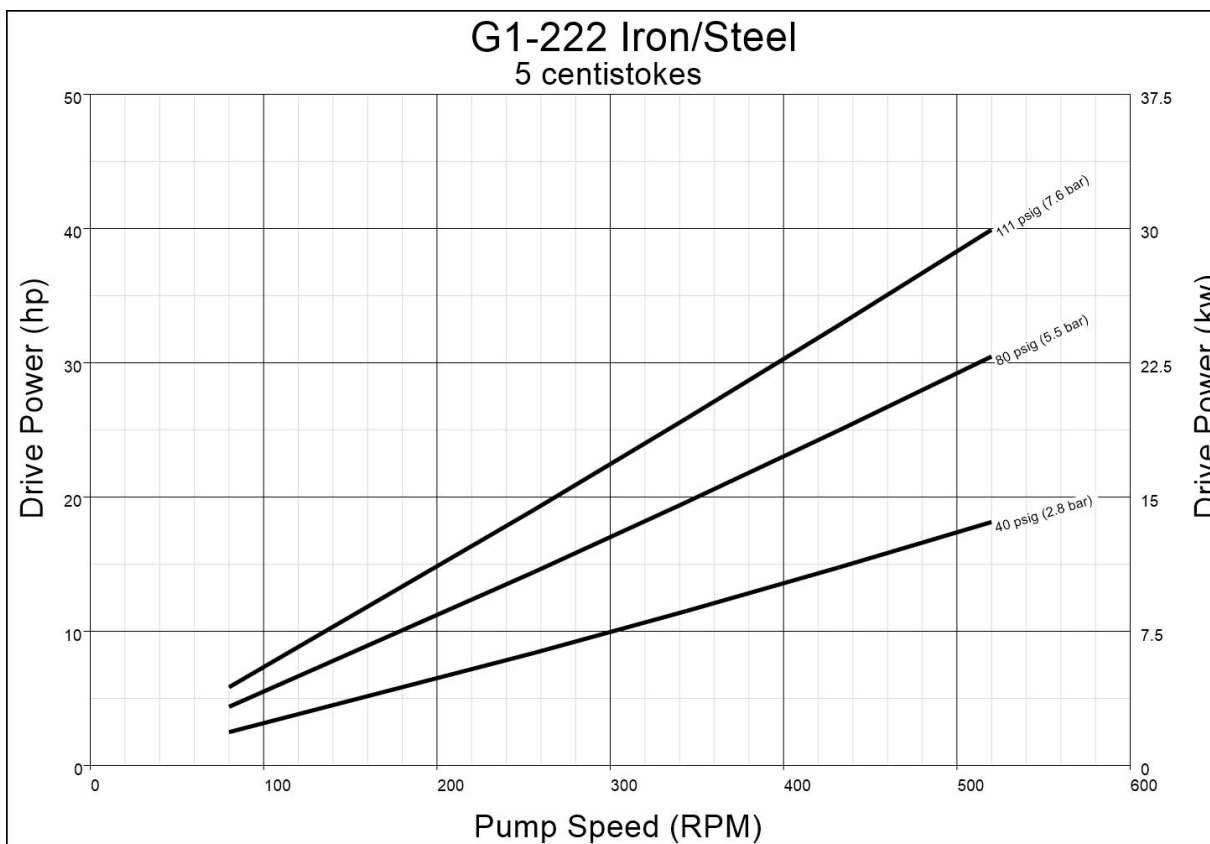
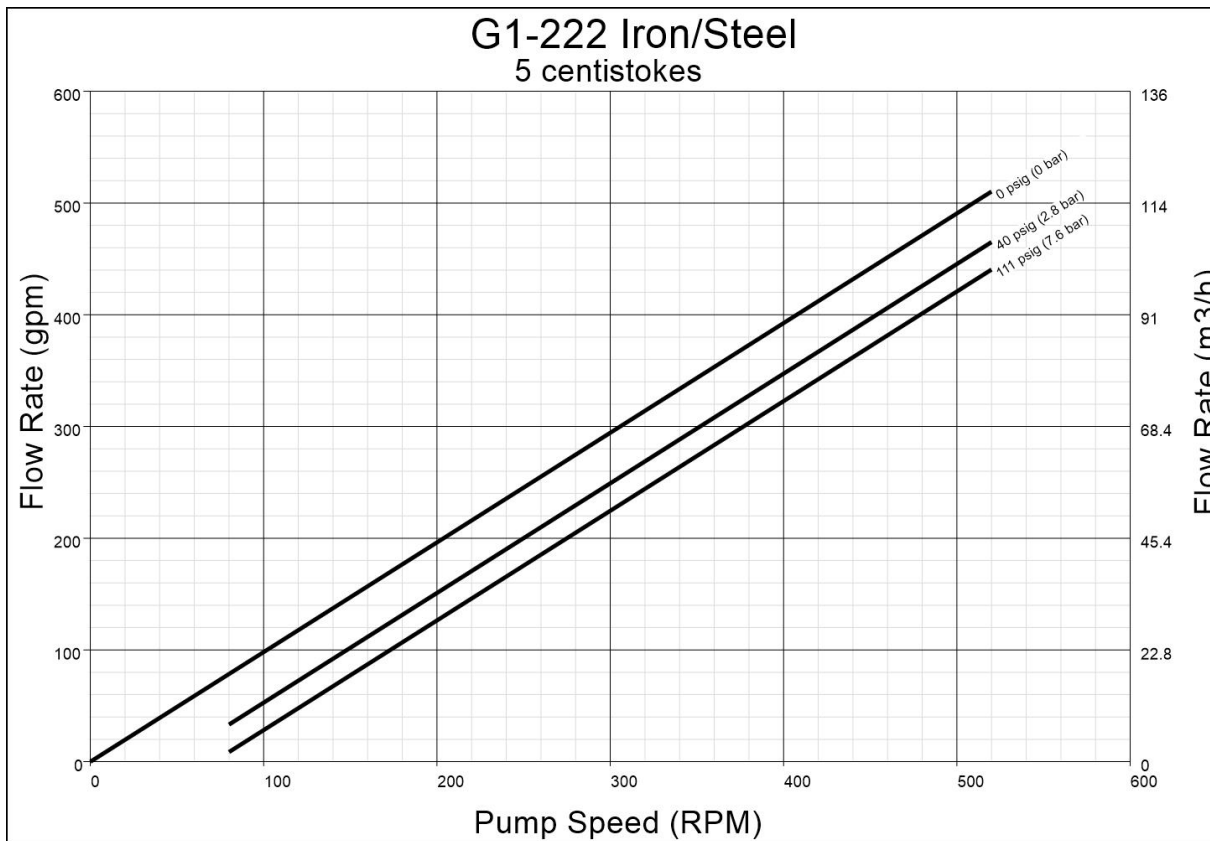




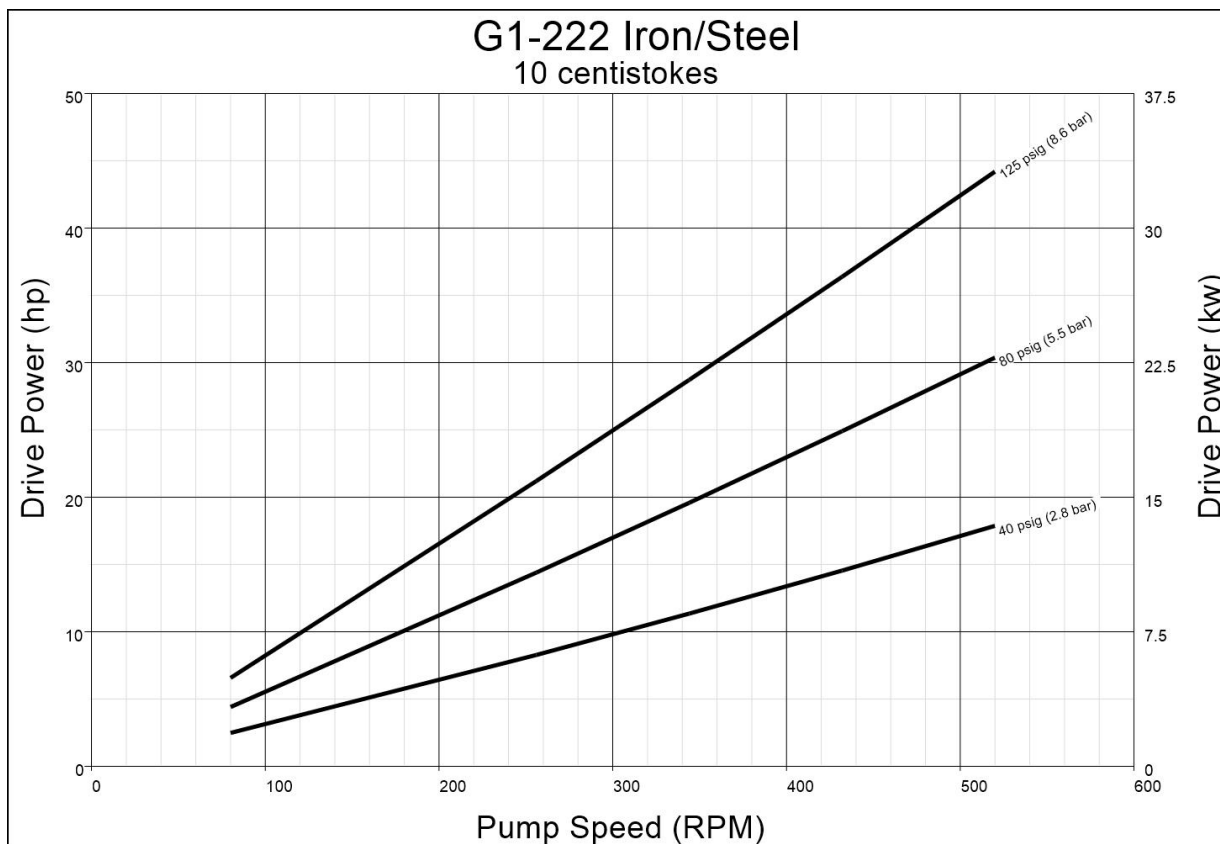
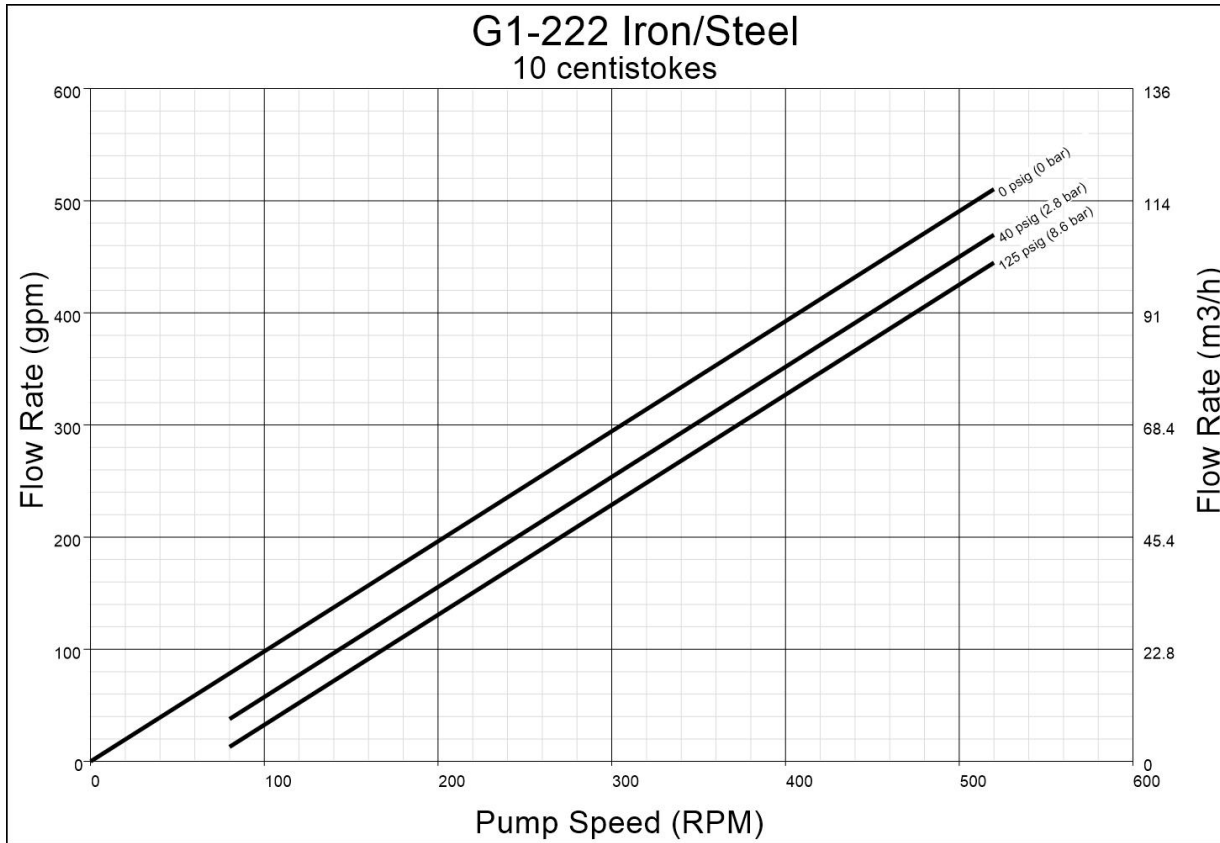


G1-222: Iron and Steel
G2-222: Iron Only

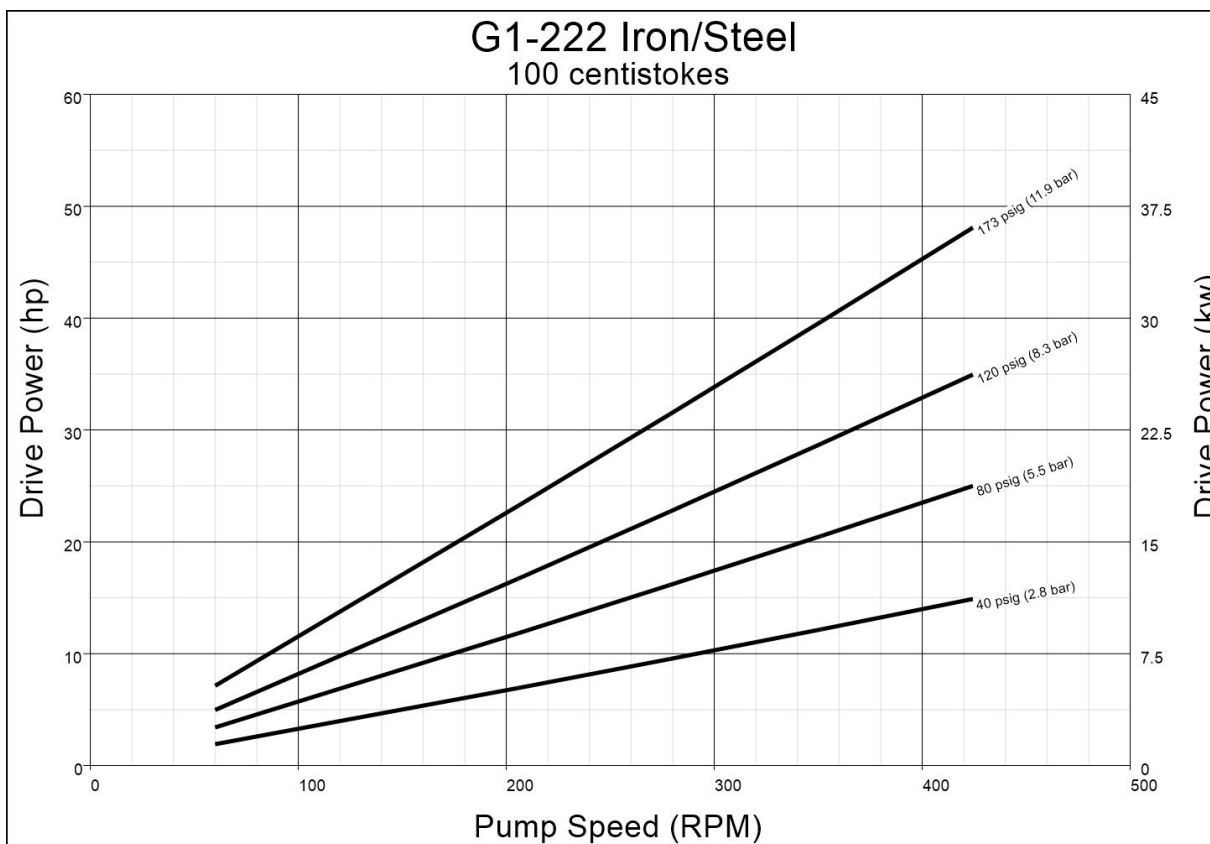
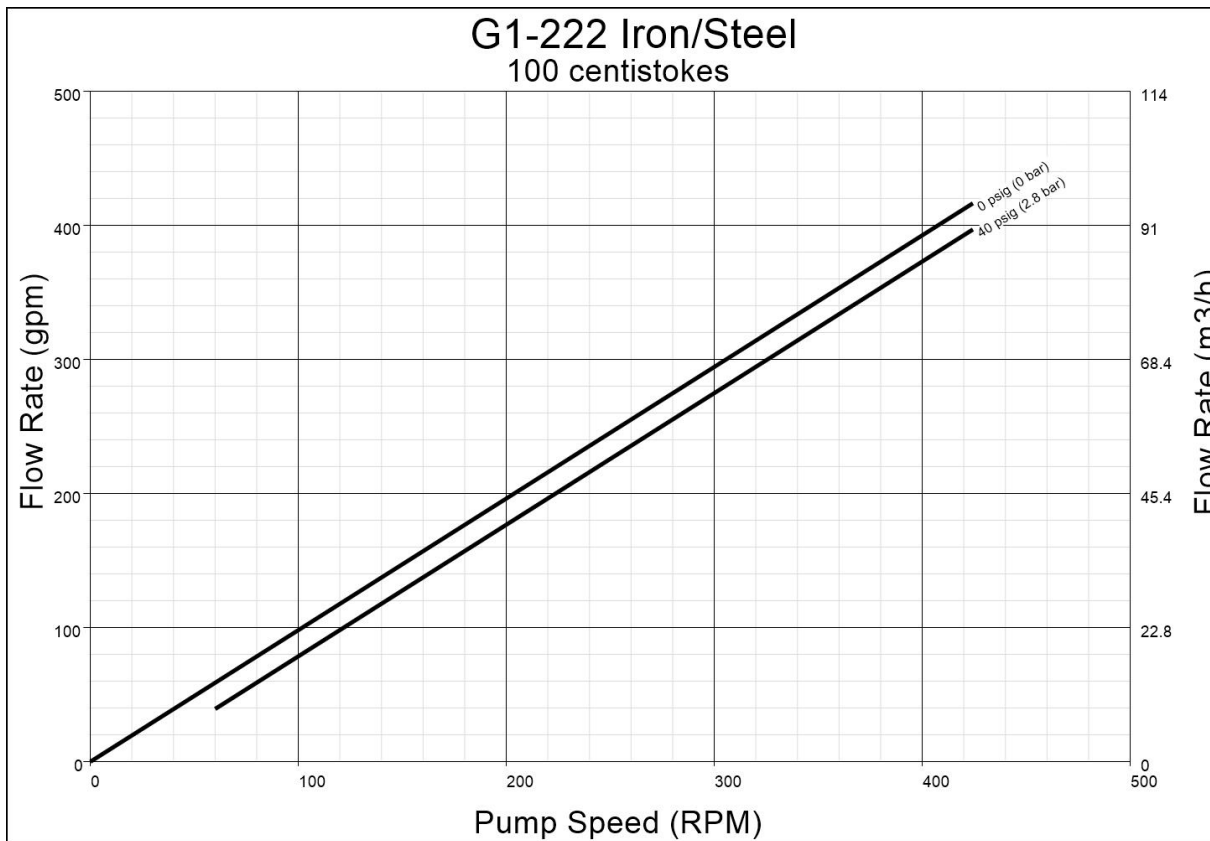


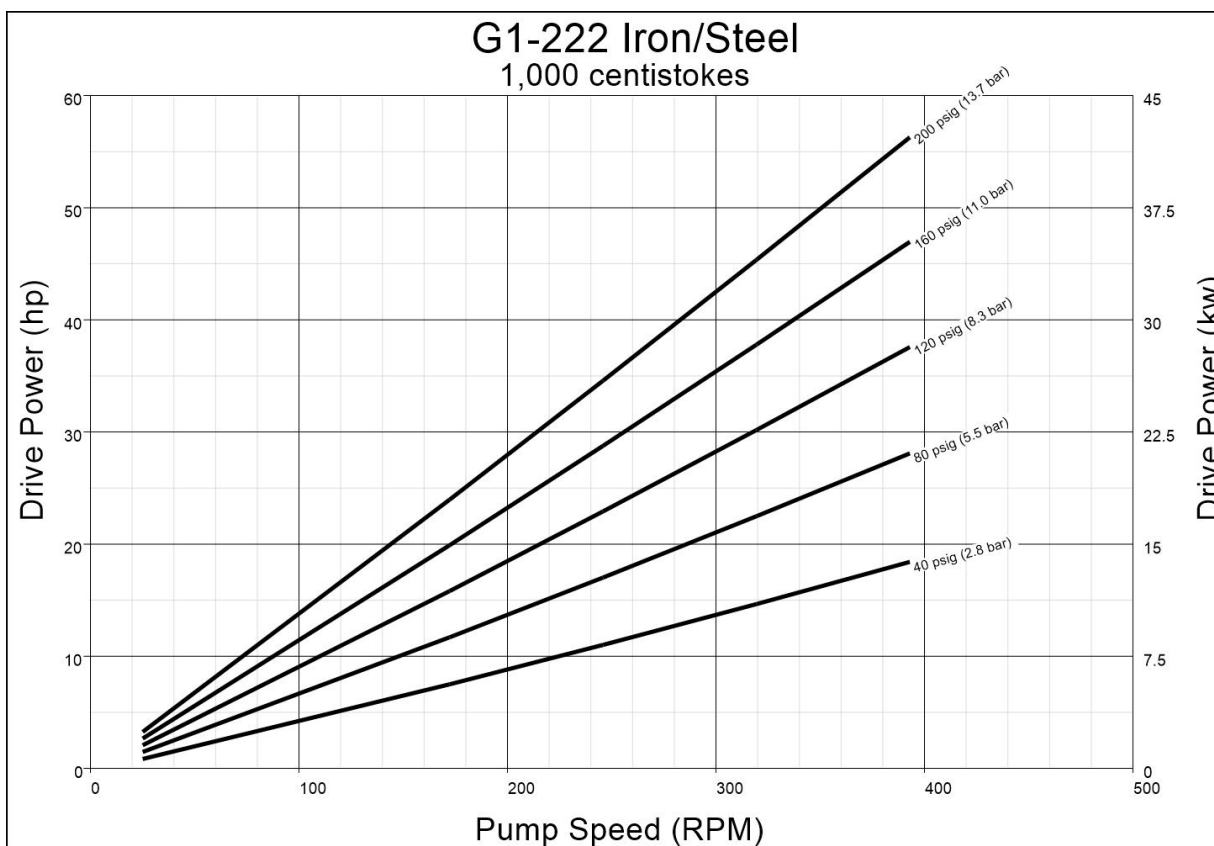


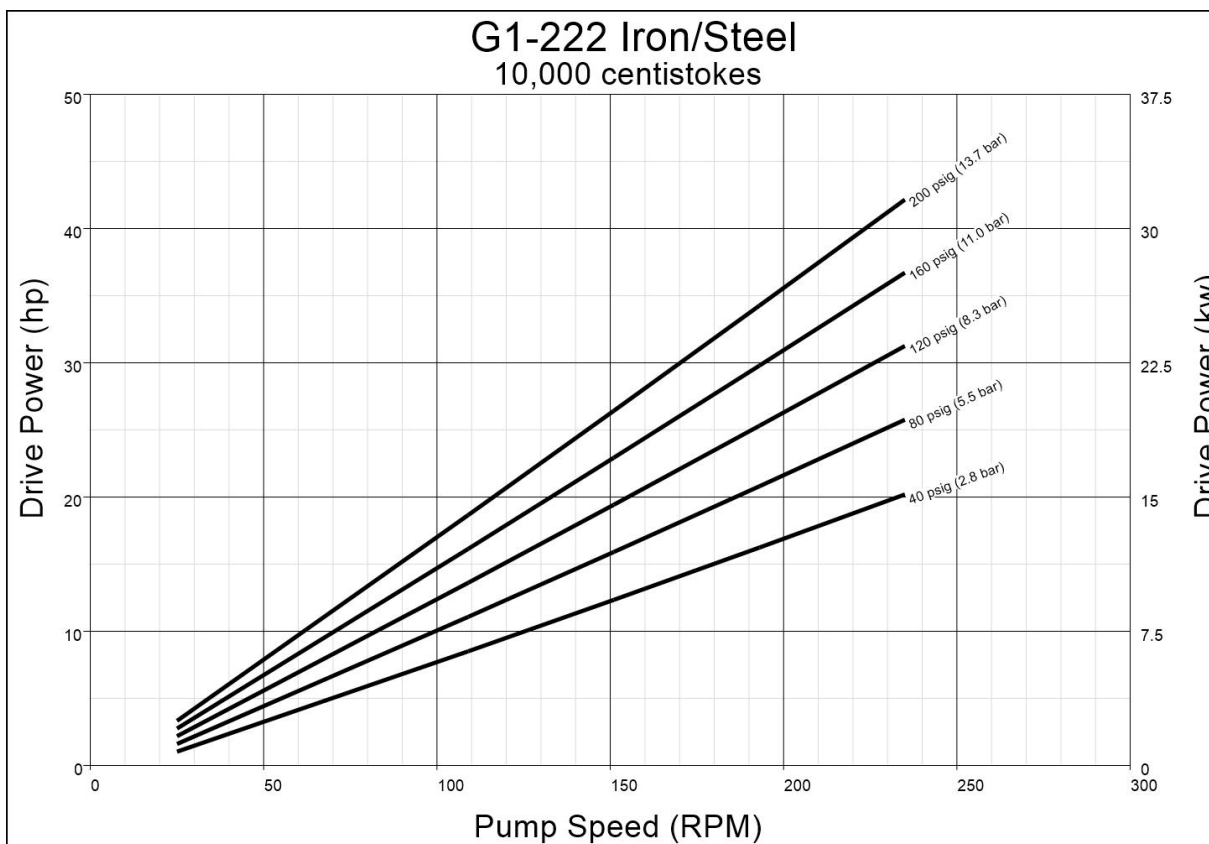
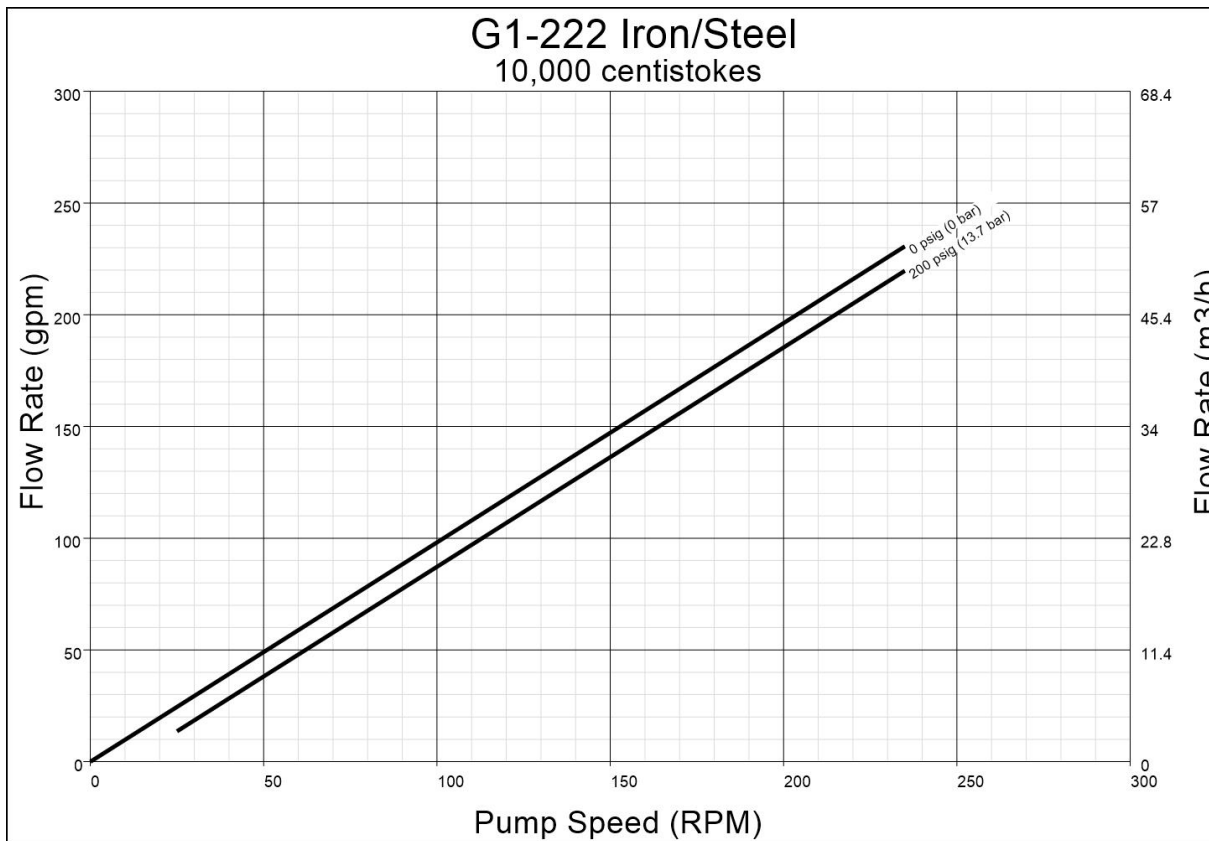
G1-222: Iron and Steel
G2-222: Iron Only



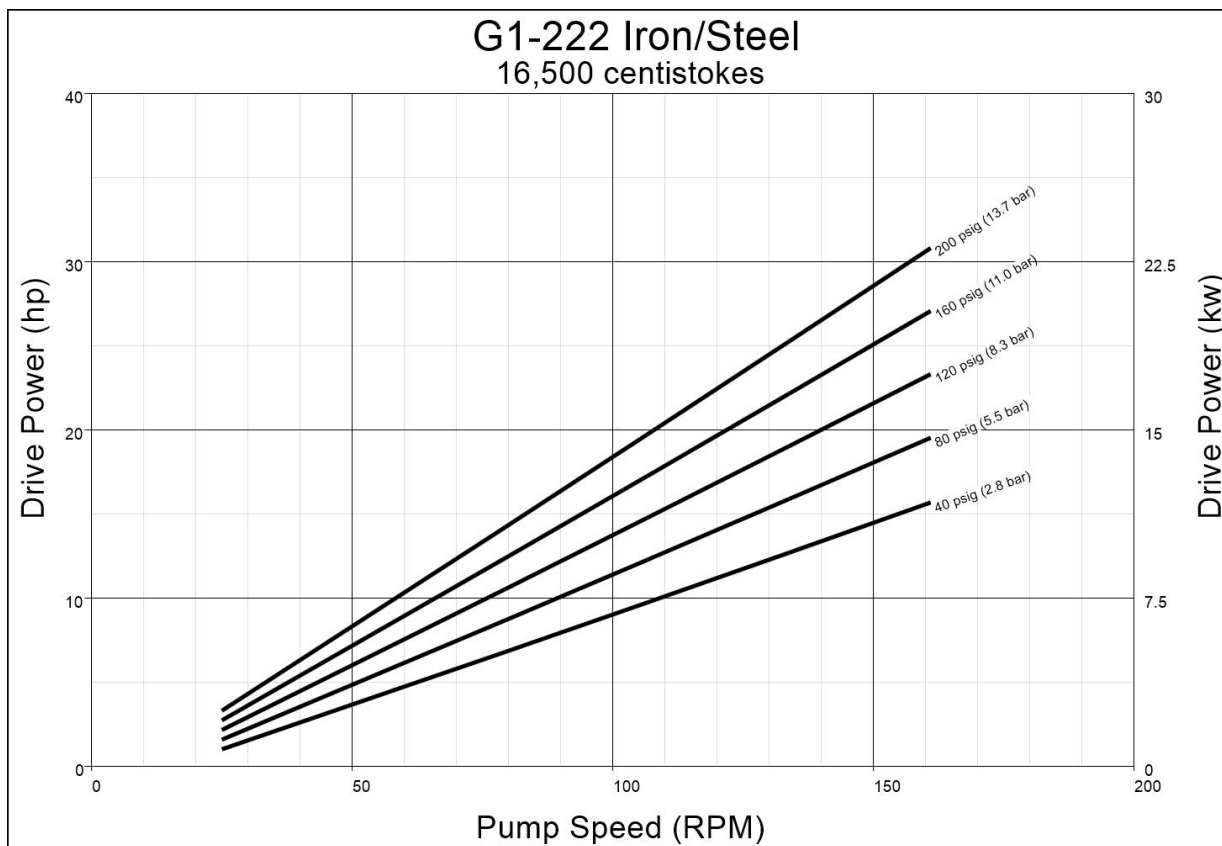
G1-222: Iron and Steel
G2-222: Iron Only

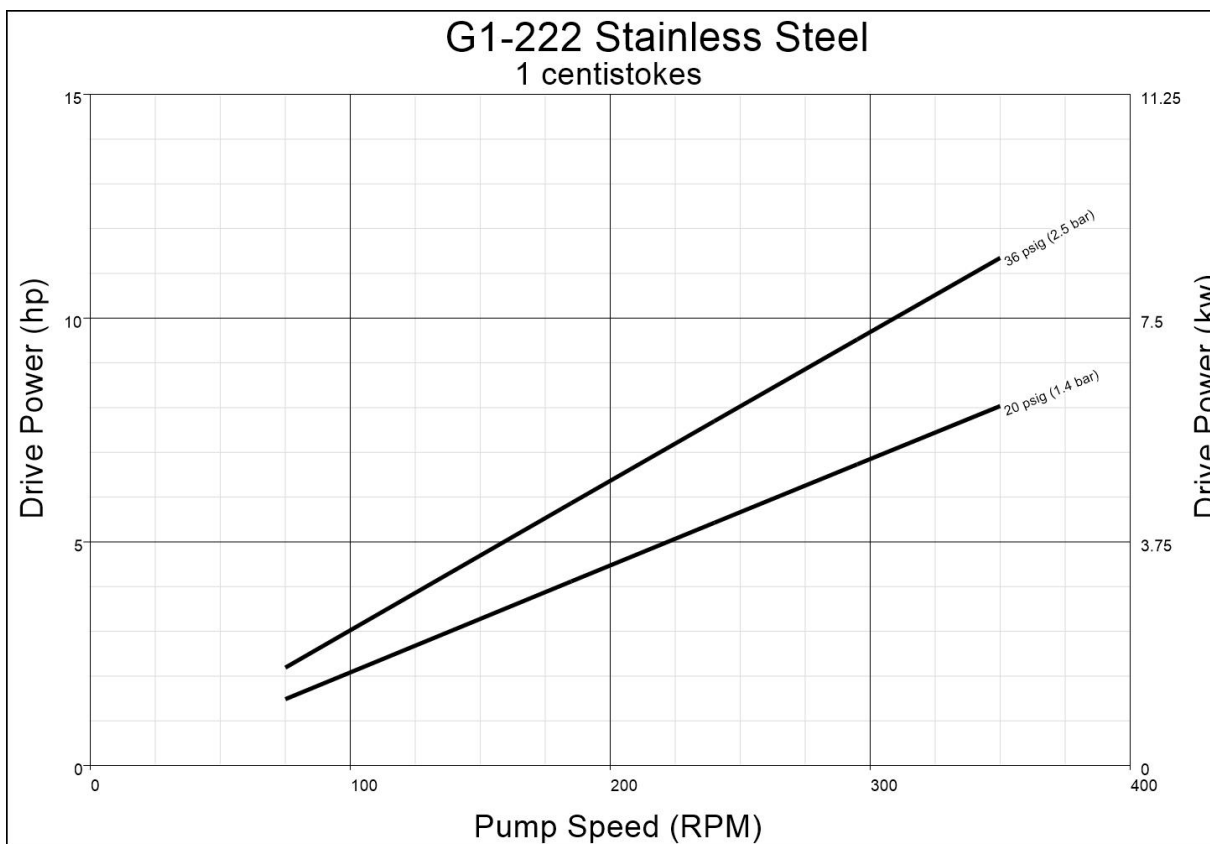
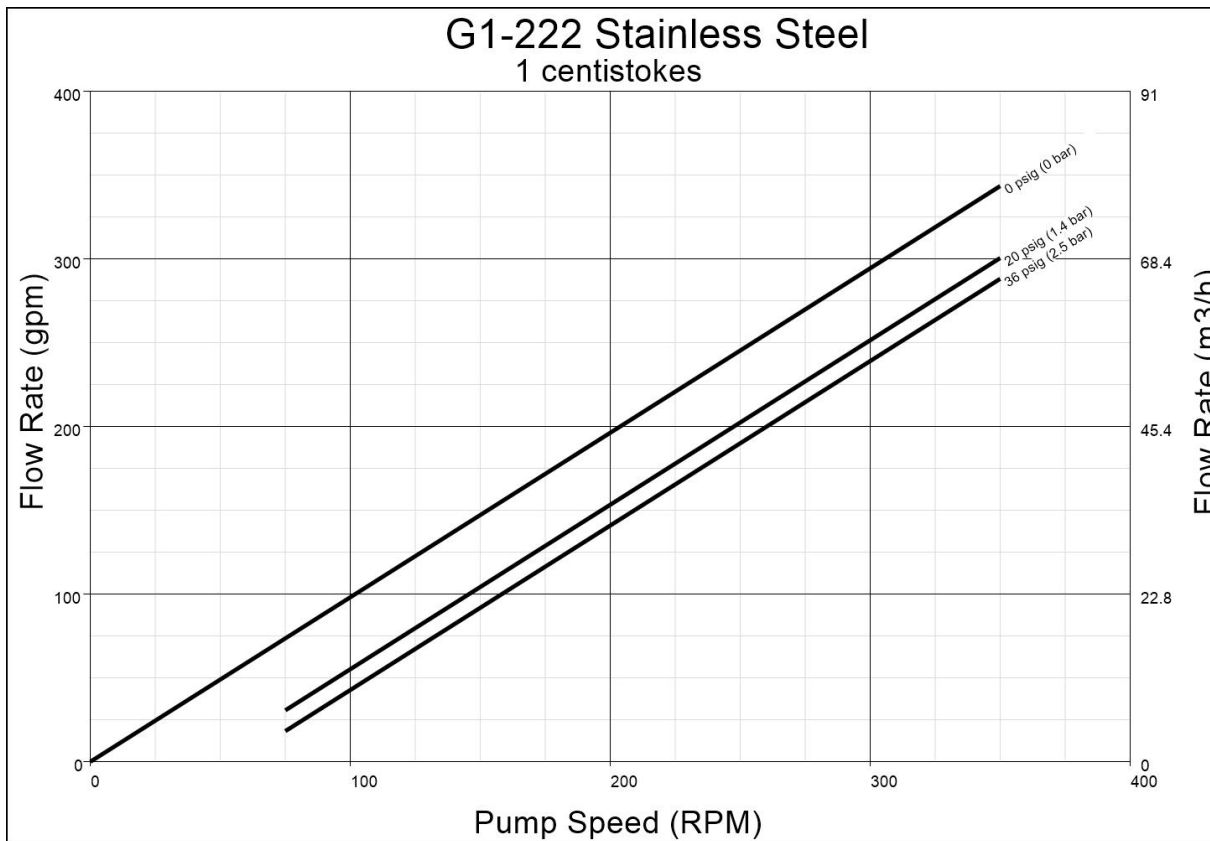


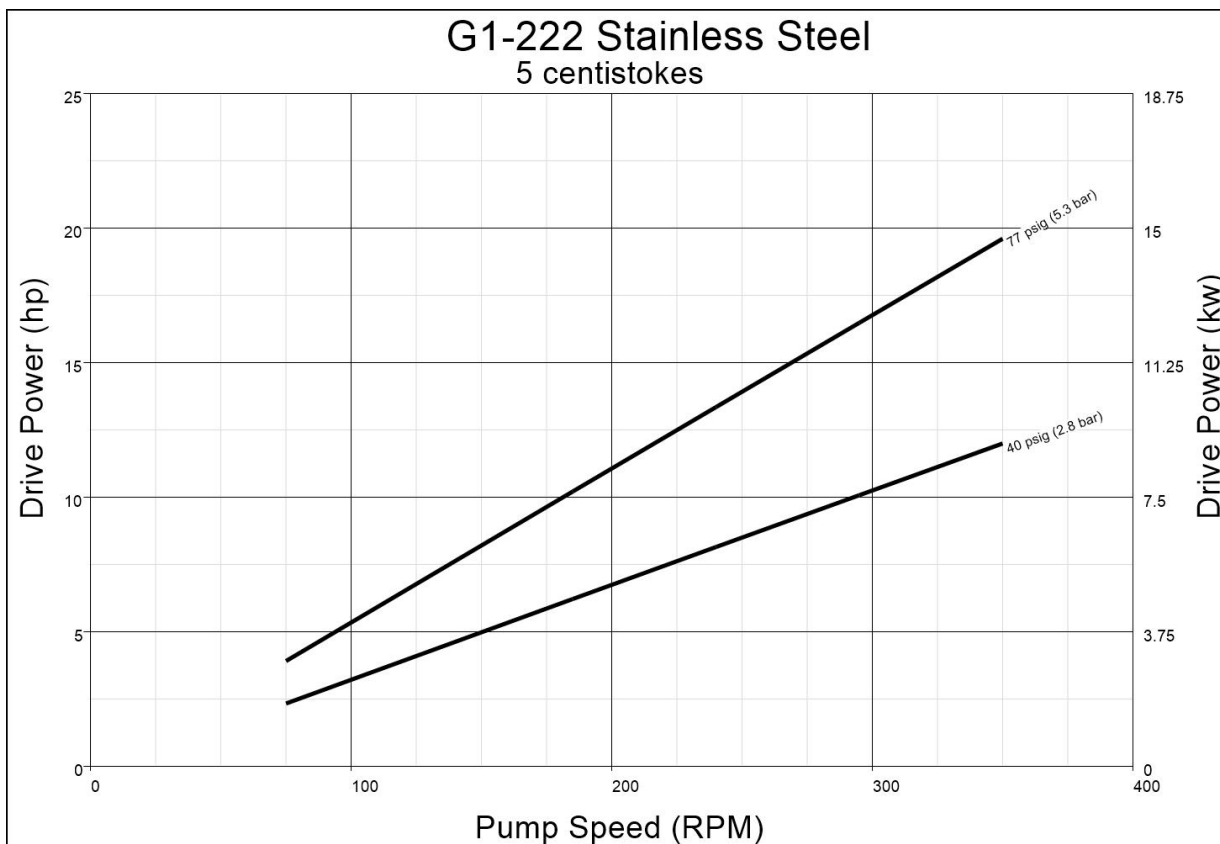
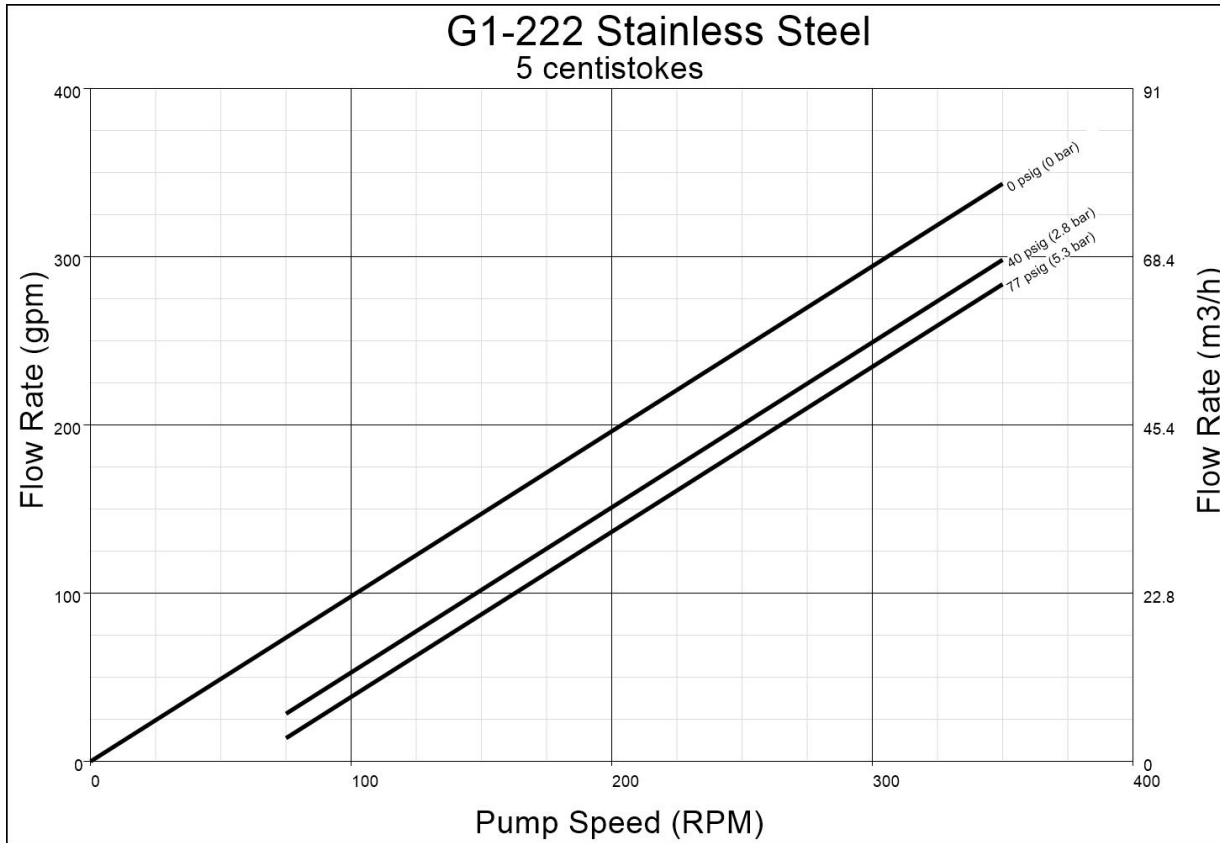


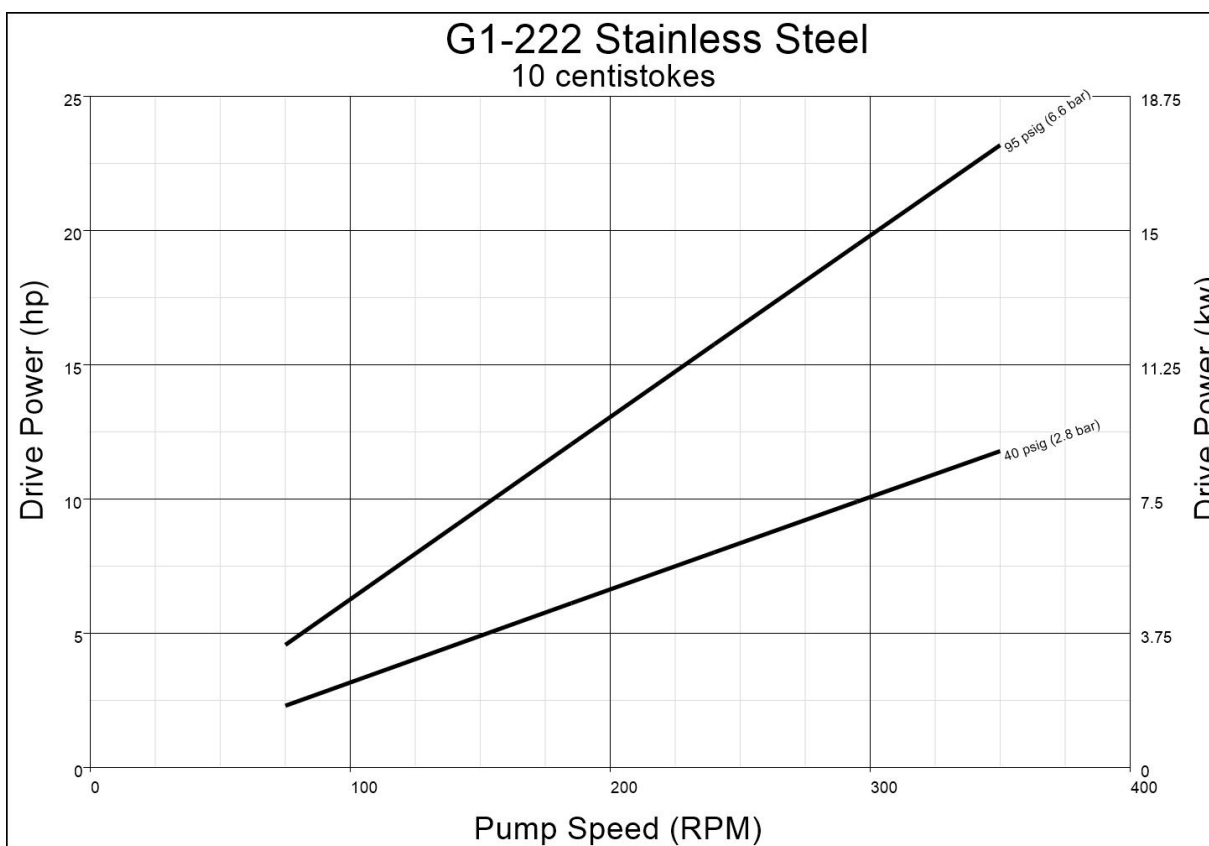
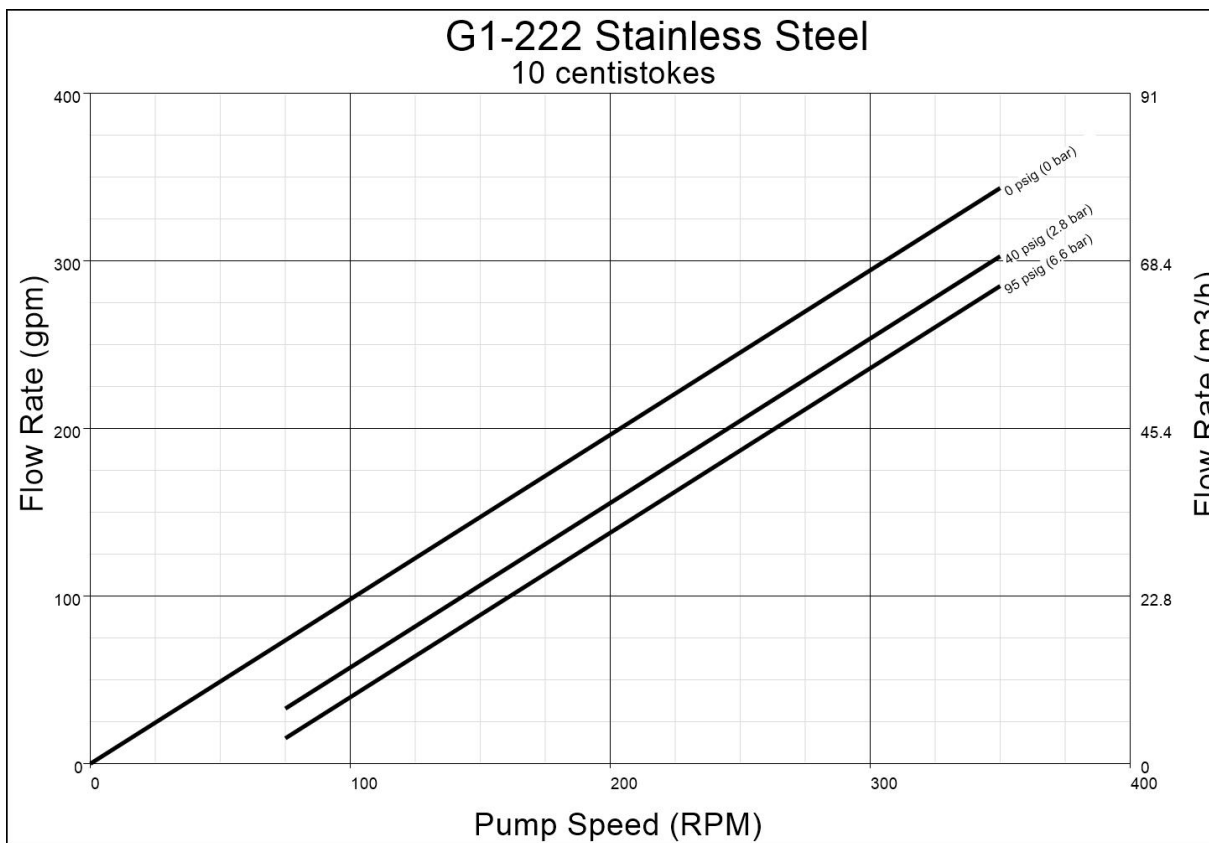


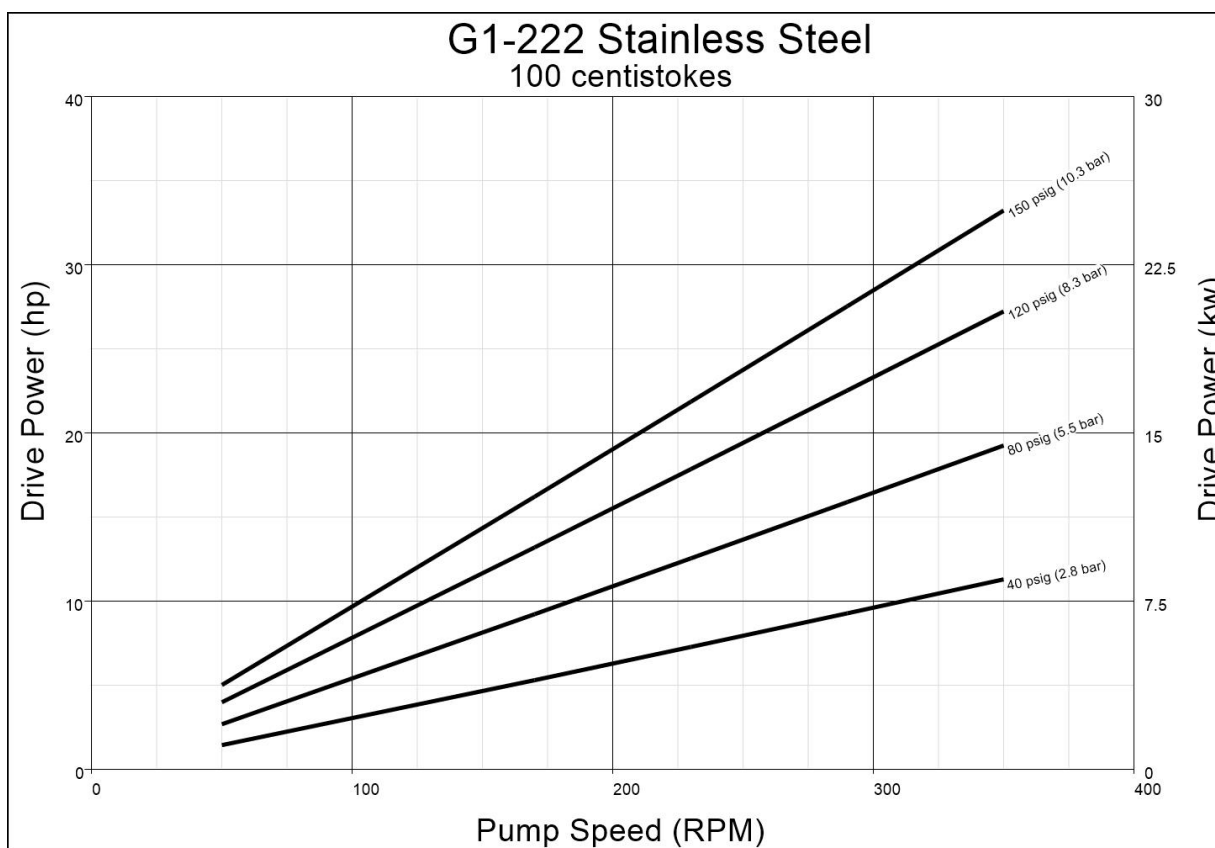
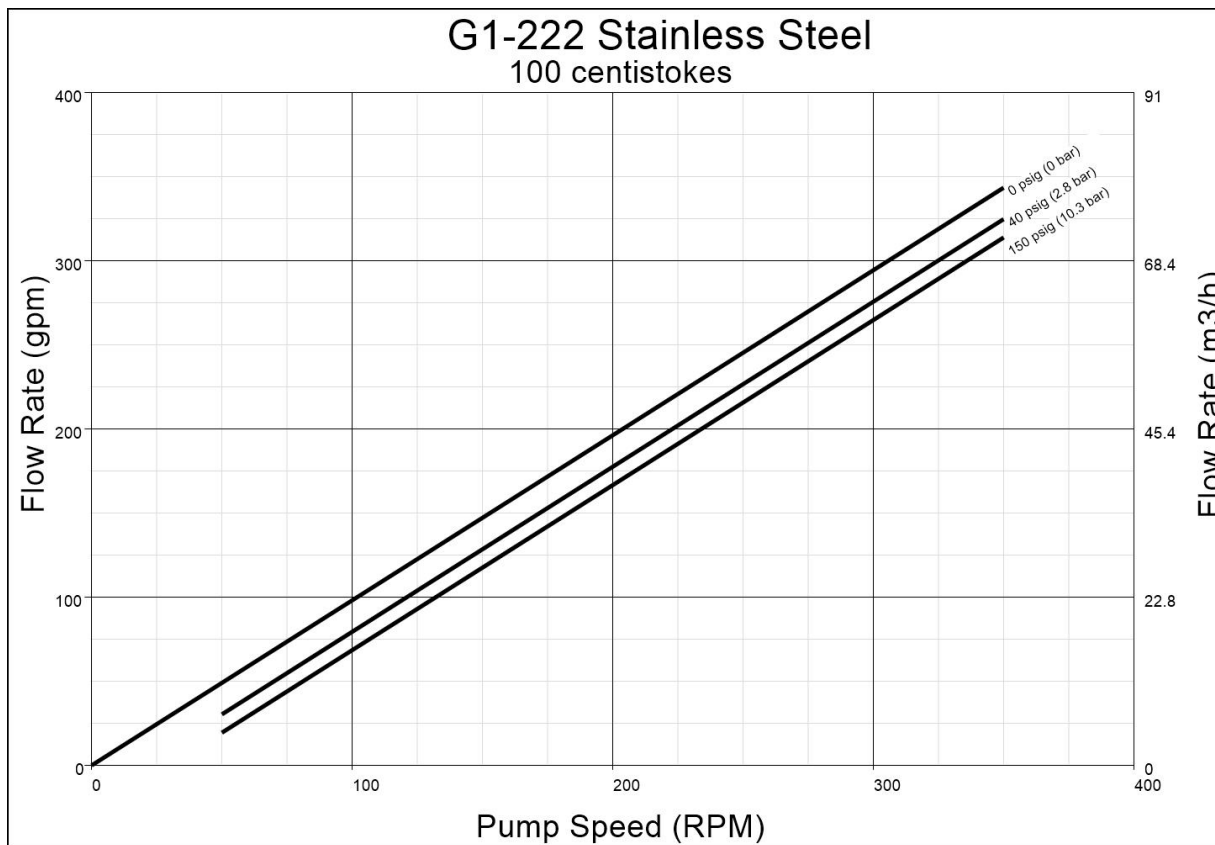
G1-222: Iron and Steel
G2-222: Iron Only

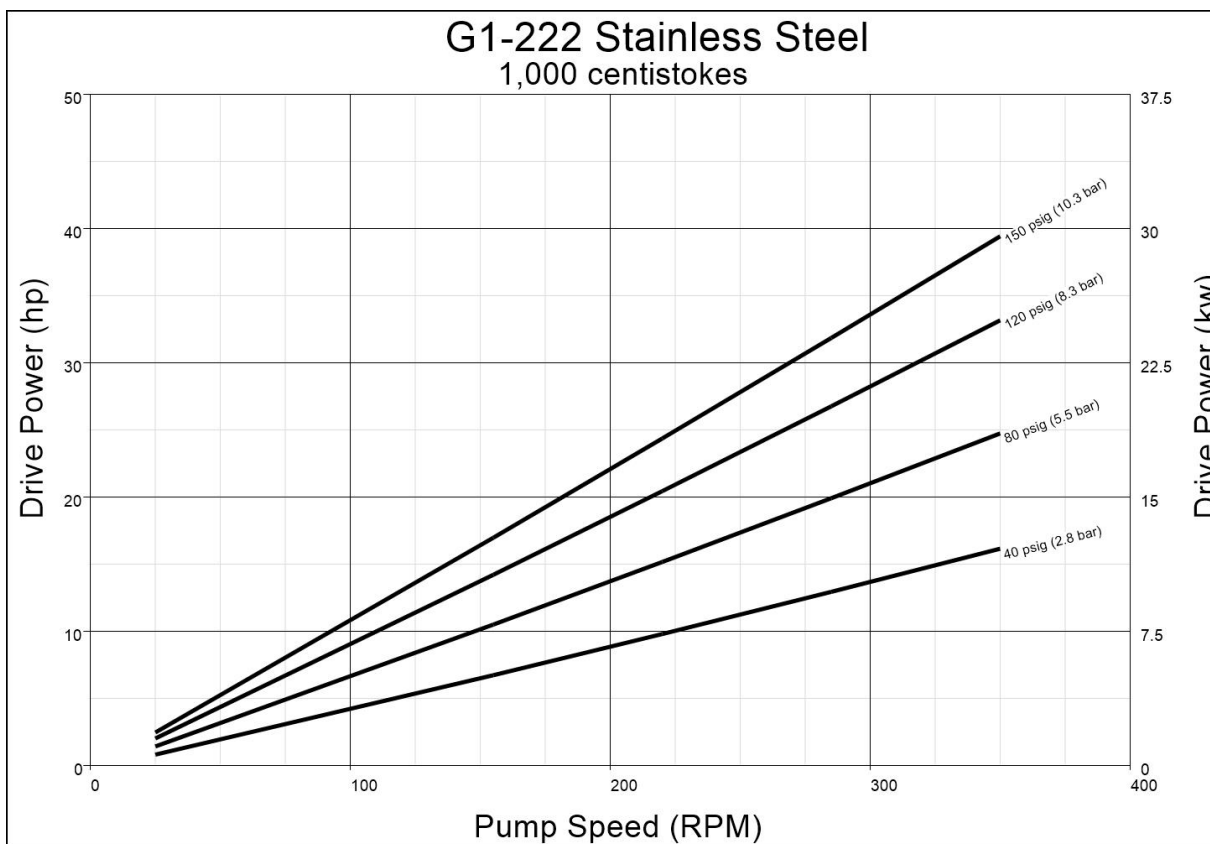
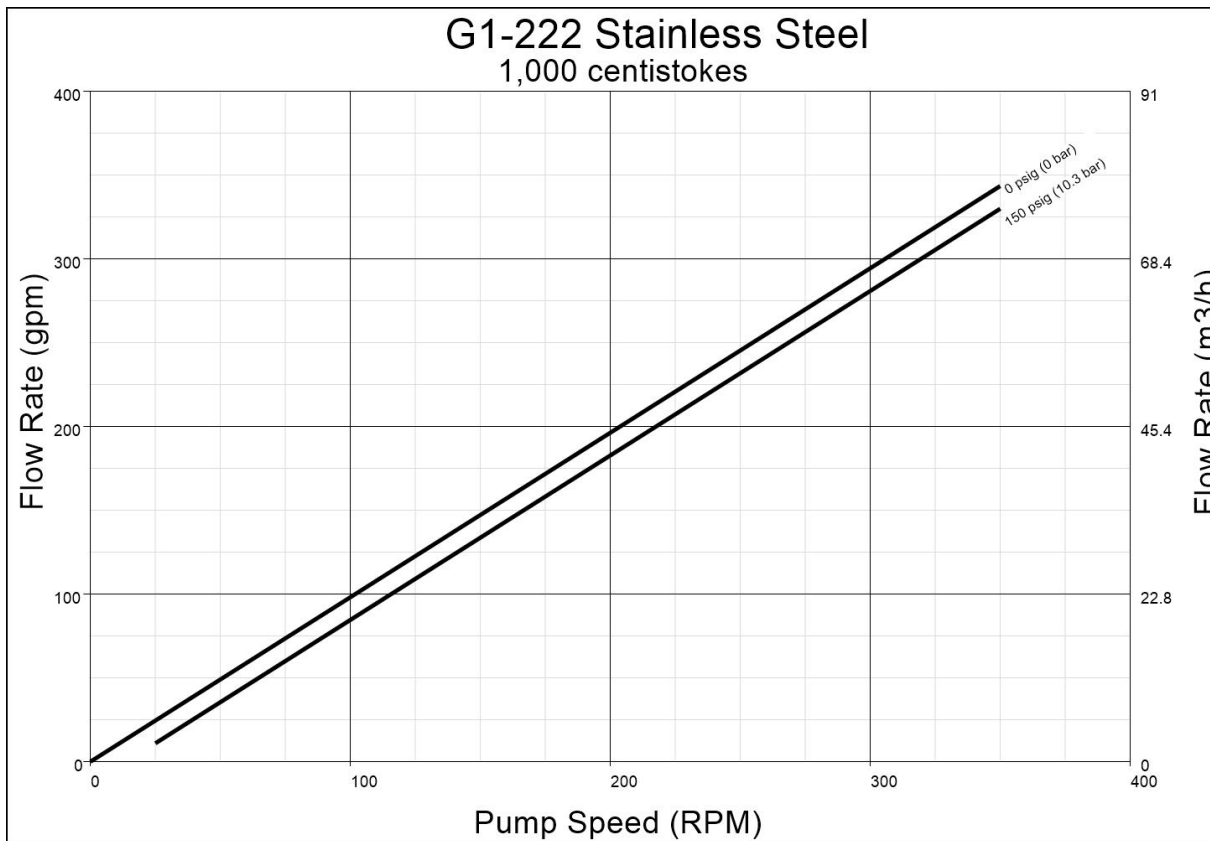


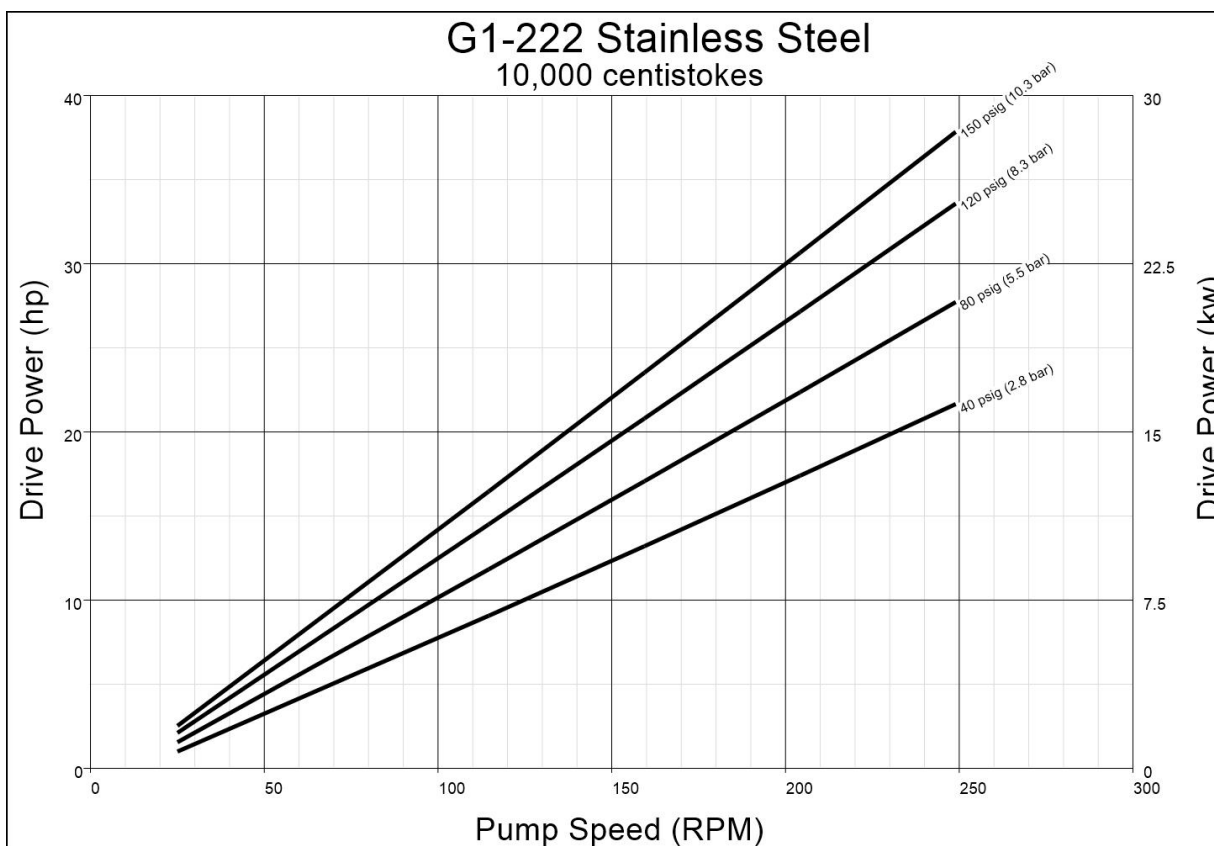
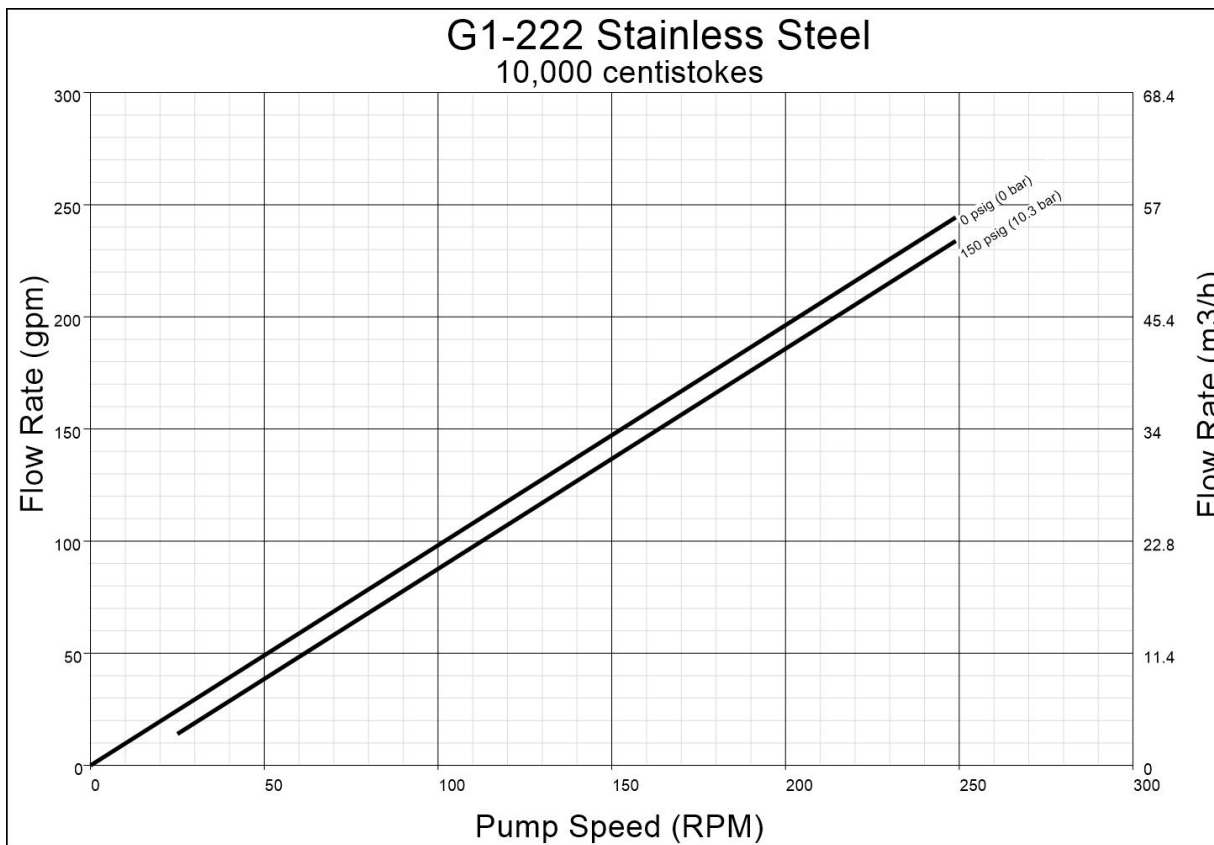


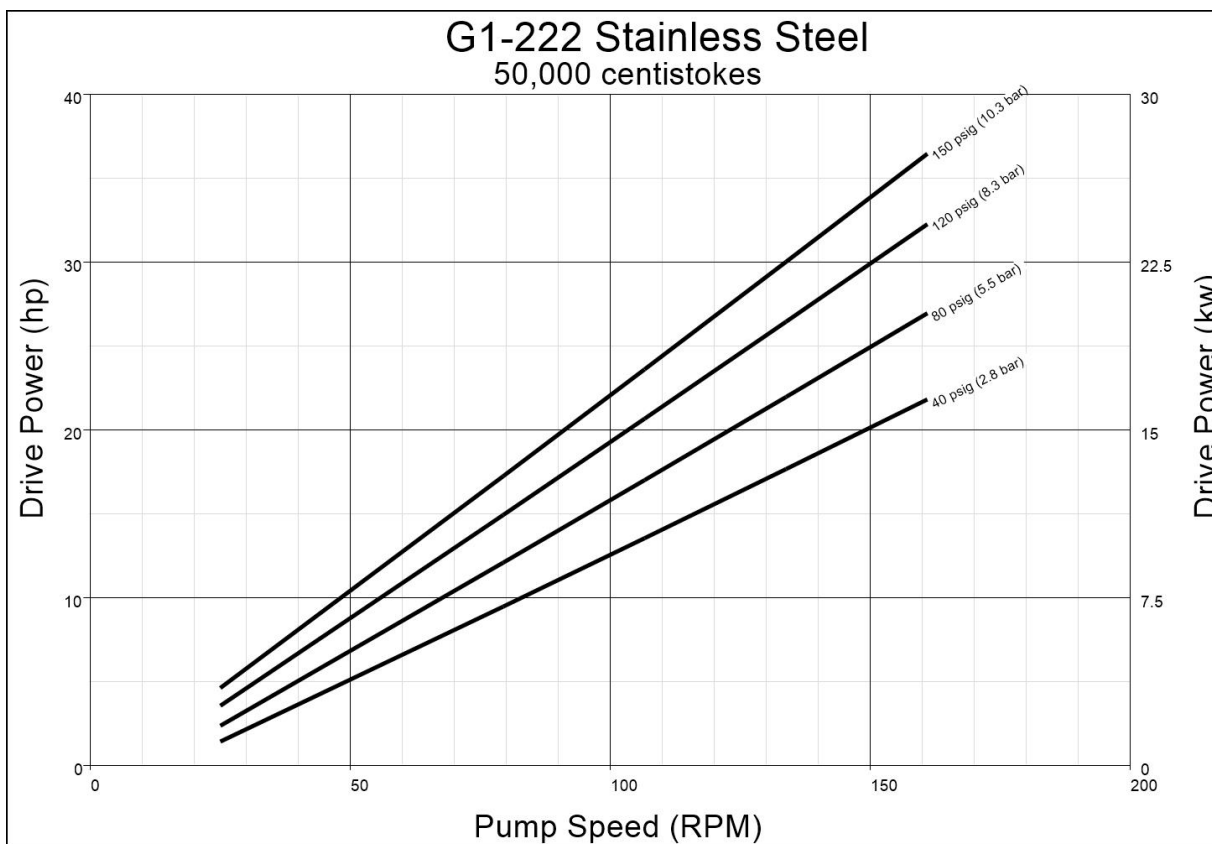
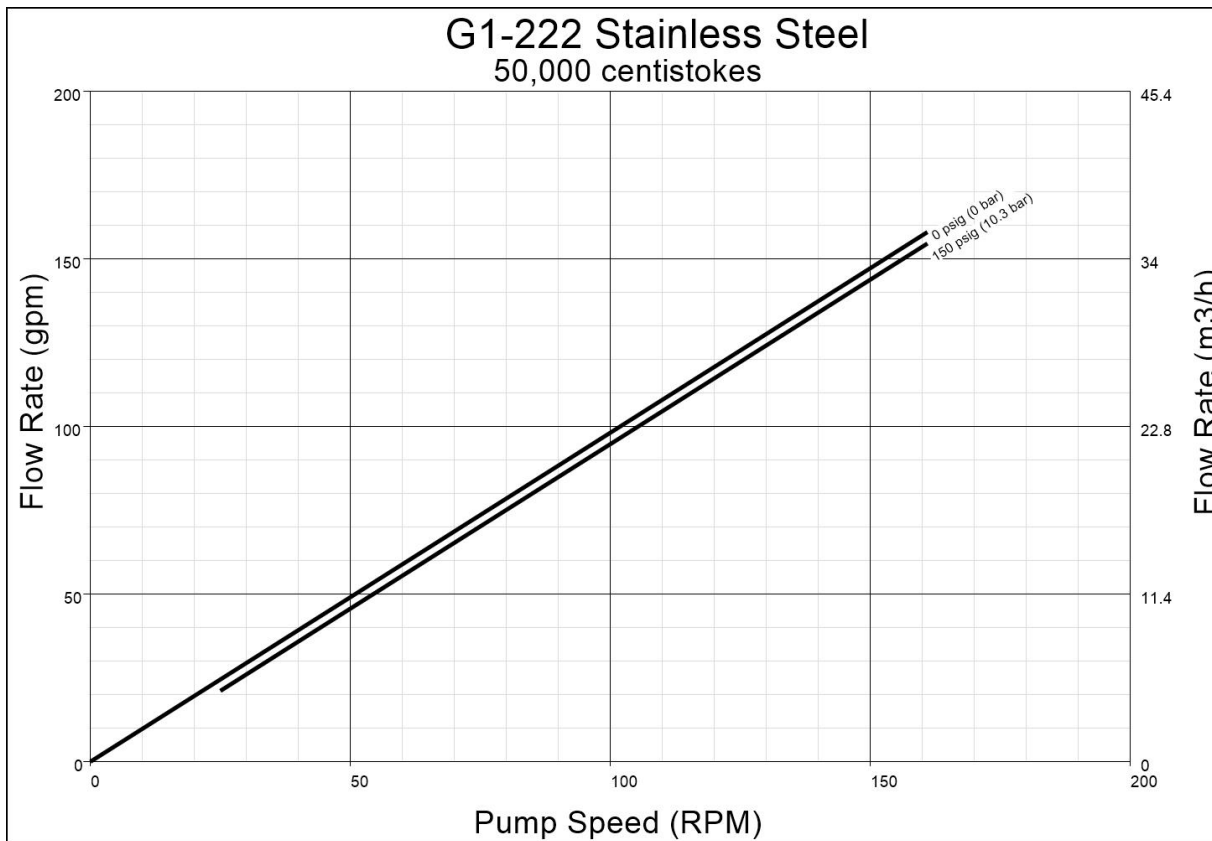












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