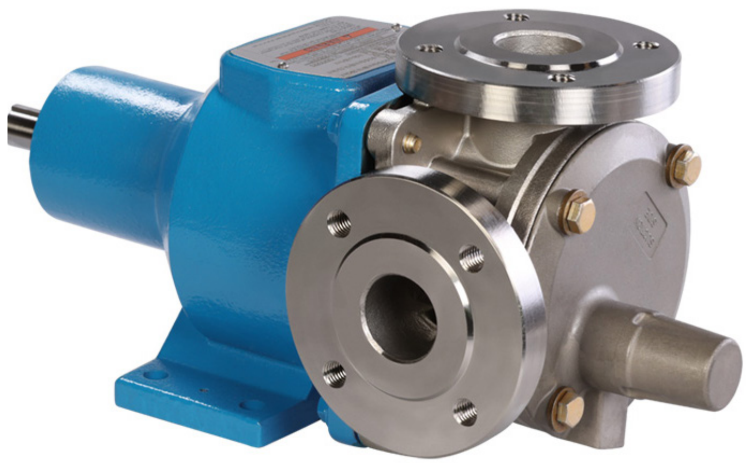
BLACKMER E SERIES MAGNETIC DRIVE GEAR PUMP PERFORMANCE CURVES



Where Innovation Flows

Contents:

Note: Click on the section or the viscosity to access that page of the document.

How to Use this Guide 6

Section 1: E1-2 8

Iron and Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Stainless Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Section 2: E1-4 18

Iron and Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Stainless Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Section 3: E1-24 28

Iron and Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Stainless Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Section 4: E1-32 38

Iron and Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Stainless Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Section 5: E1-55 48

Iron and Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Stainless Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Section 6: E1-69 58

Iron and Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Stainless Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Section 7: E1-82 68

Iron and Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Stainless Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Section 8: E1-133 78

Iron and Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Stainless Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Section 9: E1-222 88

Iron and Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 centistokes

Stainless Steel Construction

20 centistokes
100 centistokes
1,000 centistokes
10,000 centistokes
30,000 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!"

Specfication

Model	Ductile Iron Gear Pump Port Sizes		Carbon Steel Gear Pump Port Sizes[1]		Stainless Steel Gear Pump Port Sizes[1]	
	Threaded	Flanged	Threaded	Flanged	Threaded	Flanged
E1-2 **E1-4**	N/A	N/A	1-1/2" NPT 1-1/2" BSPT	1-1/2" ANSI 2" ANSI DN40	1-1/2" NPT 1-1/2" BSPT	1-1/2" ANSI 2" ANSI DN40
E1-24 **E1-32**	2" NPT 2" BSPT	2" ANSI 2" ANSI 180°	2" NPT 2" BSPT	2" ANSI 2" ANSI 180° 3" ANSI	2" NPT 2" BSPT	2" ANSI 2" ANSI 180° 3" ANSI DN50
E1-55 **E1-69** **E1-82**	N/A	3" ANSI 4" ANSI	N/A	3" ANSI 4" ANSI DN80	N/A	3" ANSI 3" ANSI 180° 4" ANSI DN80
E1-133	N/A	4" ANSI[2]	N/A	4" ANSI	N/A	4" ANSI
E1-222	N/A	6" ANSI[2] 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
Note: All port orientations 90° unless specifically noted 180°
Note: All E Series ANSI flanges are "raised-face" (RF), with the exception of E1-133/222 models which are "flat-face" (FF)

Performance

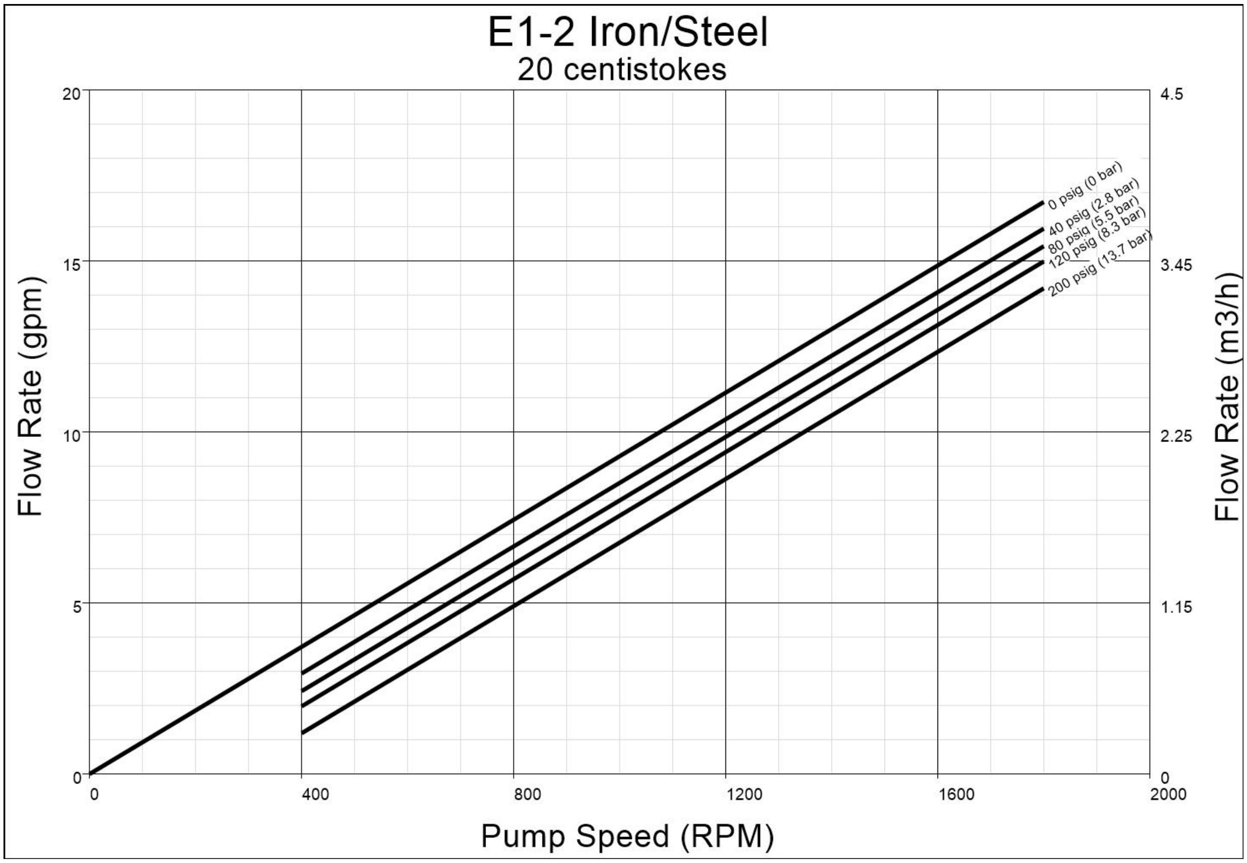
Model	Ductile Iron / Carbon Steel Gear Pumps		Stainless Steel Gear Pumps	
	RPM	GPM (M^3/H)	RPM	GPM (M^3/H)
E1-2	1,750	15 (3.4)	1,150	10 (2.3)
E1-4	1,750	30 (6.8)	1,150	20 (4.5)
E1-24	780	75 (17.0)	640	55 (12.5)
E1-32	780	100 (22.7)	640	80 (18.2)
E1-55	640	135 (30.7)	520	110 (25.0)
E1-69	640	170 (38.6)	520	140 (31.8)
E1-82	640	200 (45.4)	520	160 (36.3)
E1-133	520	300 (68.1)	520	160 (36.3)
E1-222	520	500 (113.6)	520	500 (113.6)

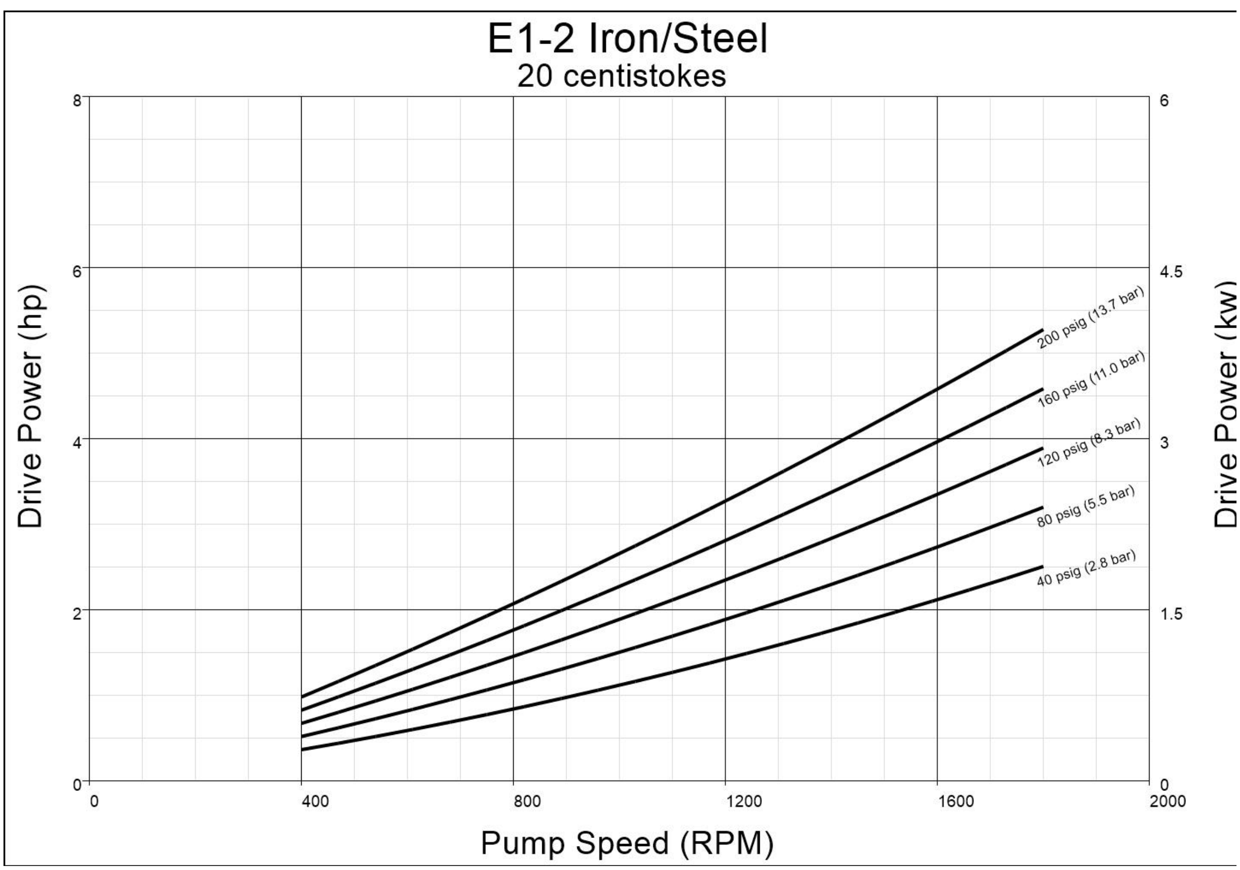
Competitor Model Cross Reference

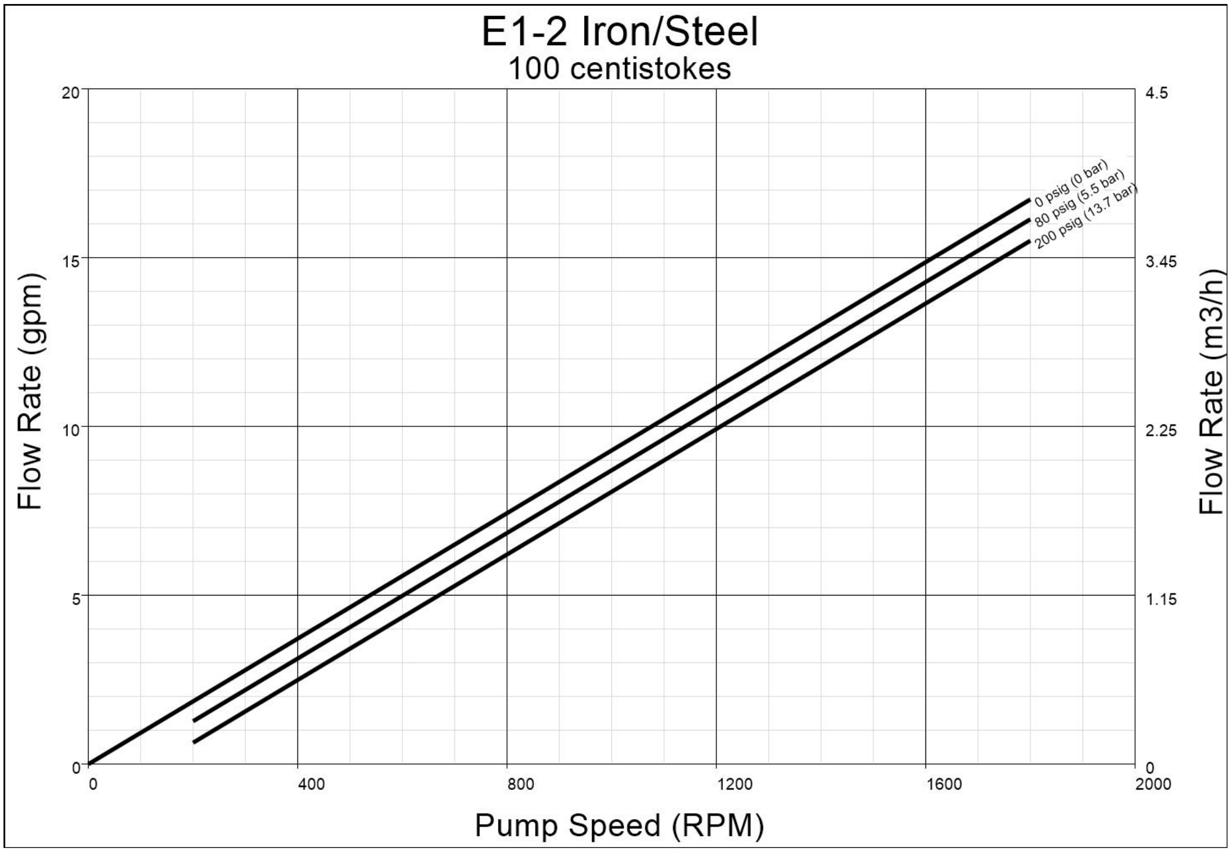
Blackmer E Series	Blackmer G Series	Viking®	Tuthill®	Gorman-Rupp®
E1-2	G1-2	H	015	GHS 1-1/2
E1-4	G1-4	HL	030	GHS 1-1/2
E1-24	G1-24	K	120	GHS 2
E1-32	G1-32	KK	130	GHS 2
E1-55	G1-55	L & LQ	200	GHS 2-1/2, 3
E1-69	G1-69	LL	210	GHS 3
E1-82	G1-82	LS	250	GHS 3
E1-133	G1-133	Q	N/A	GHS 3
E1-222	G1-222	QS	550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

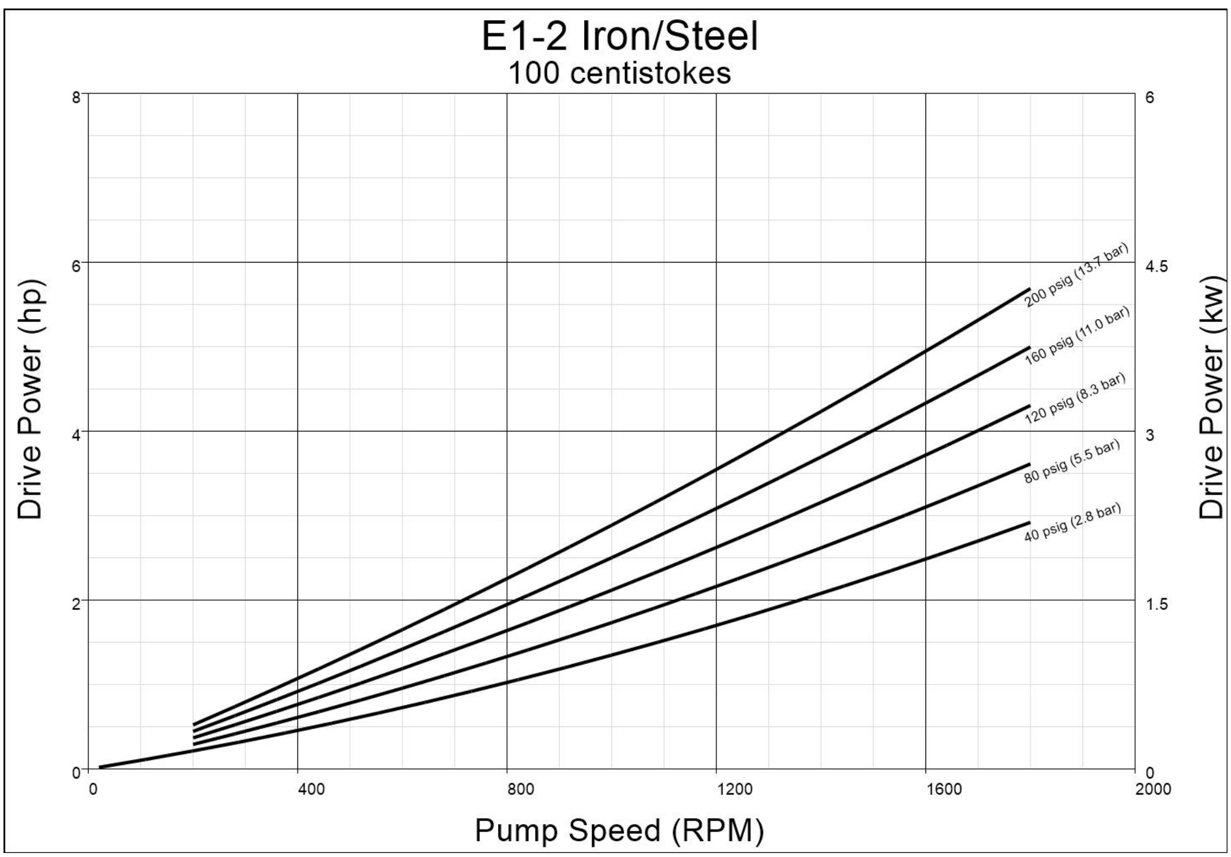
Note: See the Blackmer Competitor Dimensional Comparision Guide for dimensional information

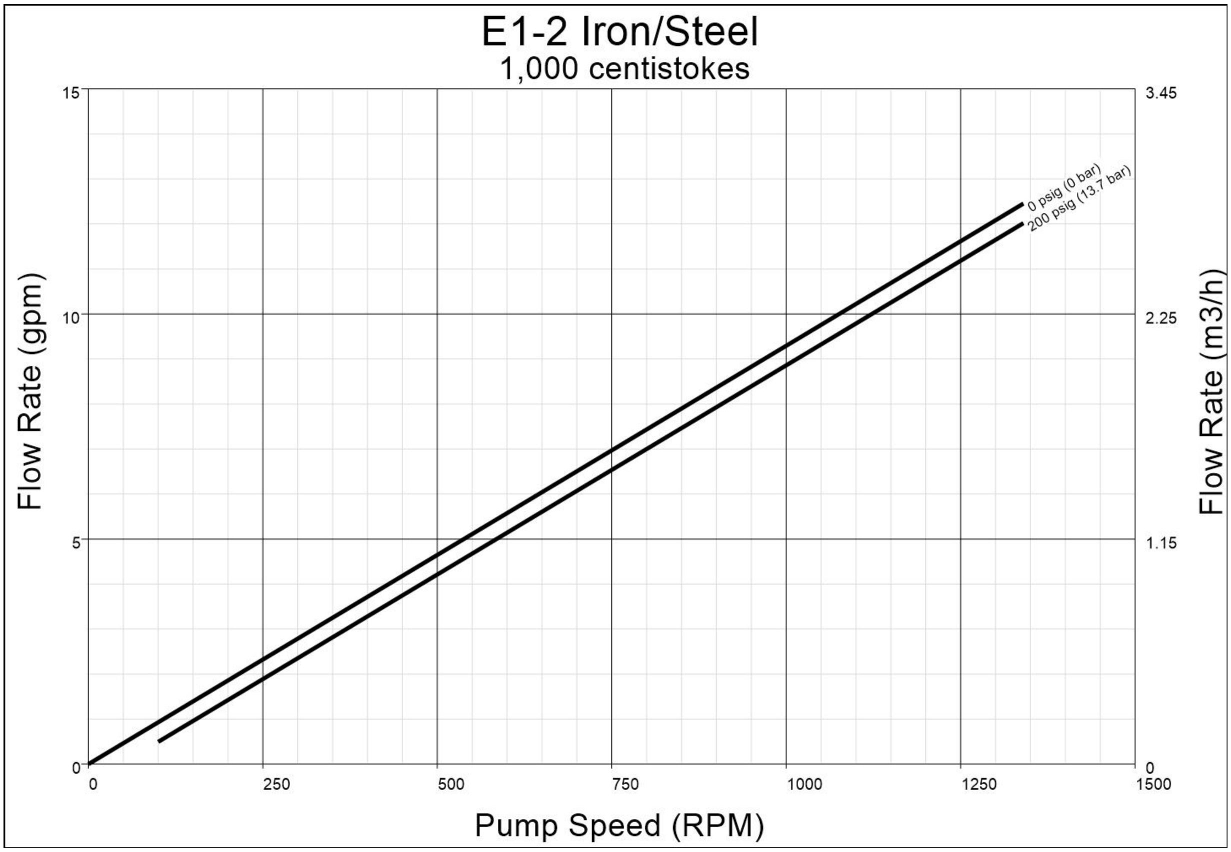
Viking® is a registered trademark of Viking Pump, Inc., a unit of IDEX Corporation. Tuthill® is a registered trademark of Tuthill Corporation. Gorman-Rupp® is a registered trademark of Gorman-Rupp® Company.

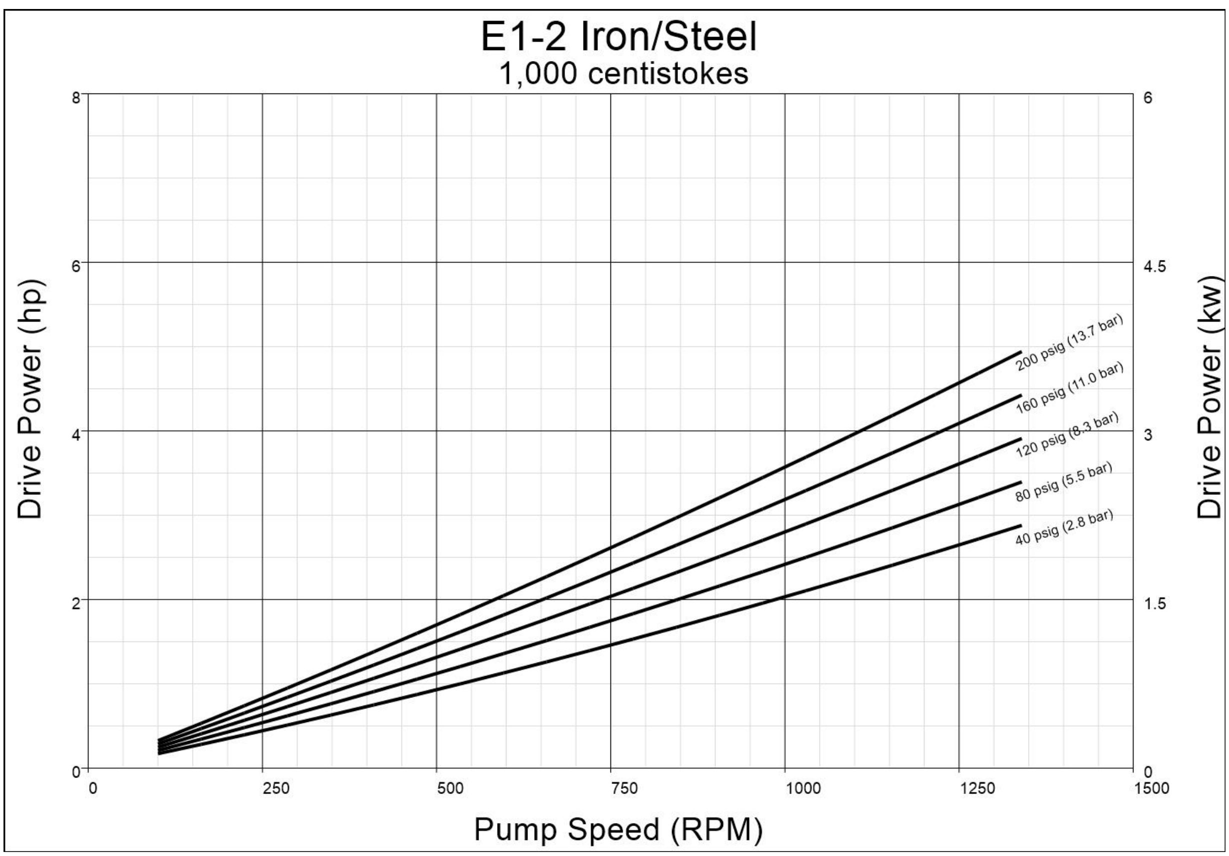

E1-2 Iron/Steel
20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
120 psig (8.3 bar)
200 psig (13.7 bar)
0
5
10
15
20
0
1.15
2.25
3.45
4.5
0
400
800
1200
1600
2000


E1-2 Iron/Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
2
4
6
8
0
1.5
3
4.5
6
0
400
800
1200
1600
2000


E1-2 Iron/Steel
100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0
400
800
1200
1600
2000
0
5
10
15
20
0
1.15
2.25
3.45
4.5
0 psig (0 bar)
80 psig (5.5 bar)
200 psig (13.7 bar)


E1-2 Iron/Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
0
400
800
1200
1600
2000
0
2
4
6
8
0
1.5
3
4.5
6
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)


E1-2 Iron/Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
200 psig (13.7 bar)
0
5
10
15
0
1.15
2.25
3.45
0
250
500
750
1000
1250
1500


E1-2 Iron/Steel
1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
2
4
6
8
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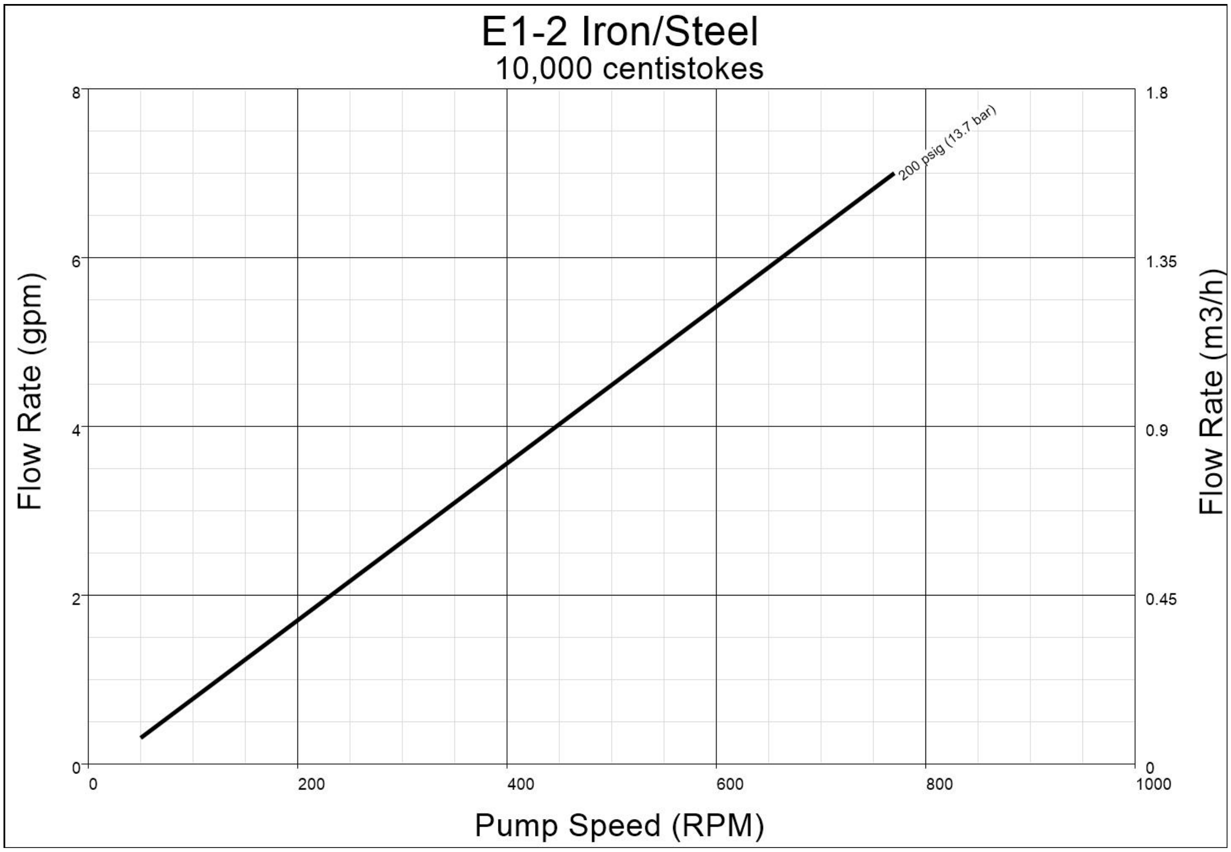
1.5
3
4.5
6
0
250
500
750
1000
1250
1500


E1-2 Iron/Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
200 psig (13.7 bar)
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4
6
8
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0.45
0.9
1.35
1.8
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200
400
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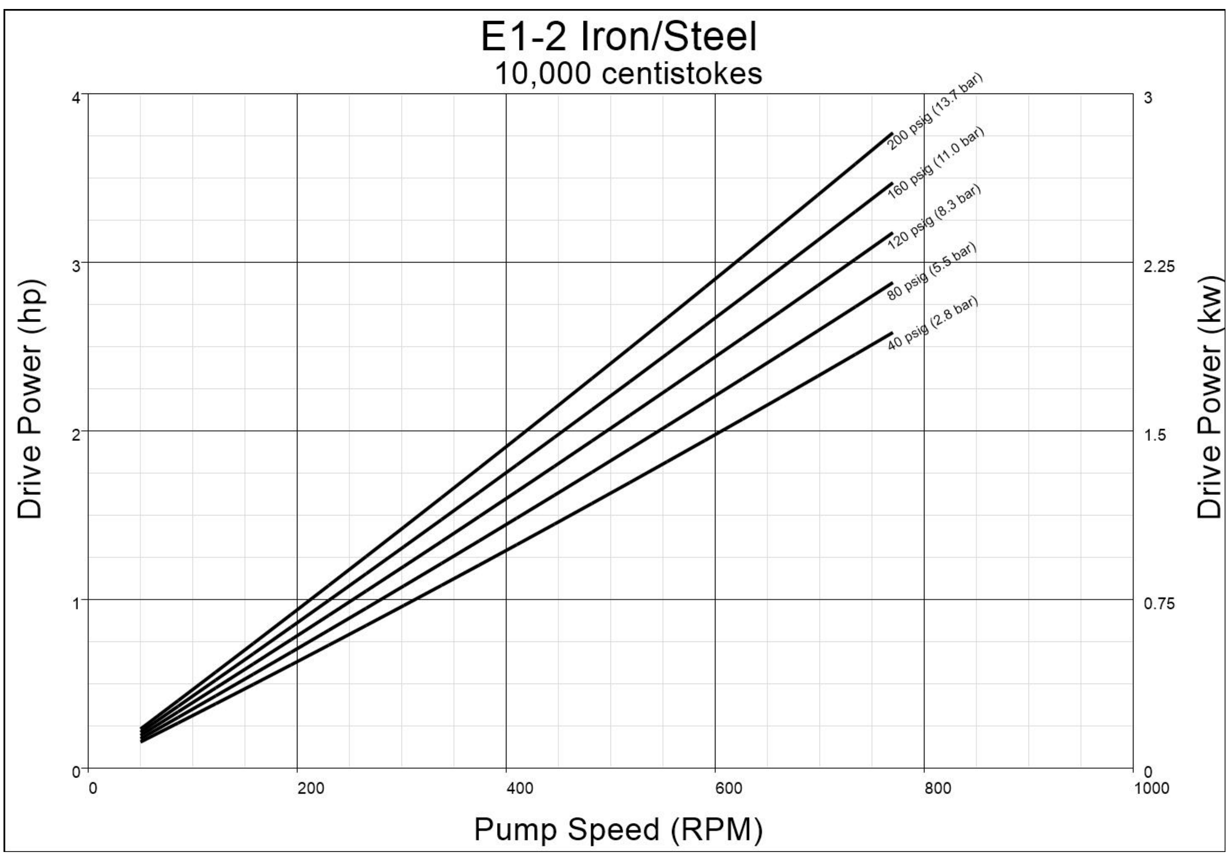
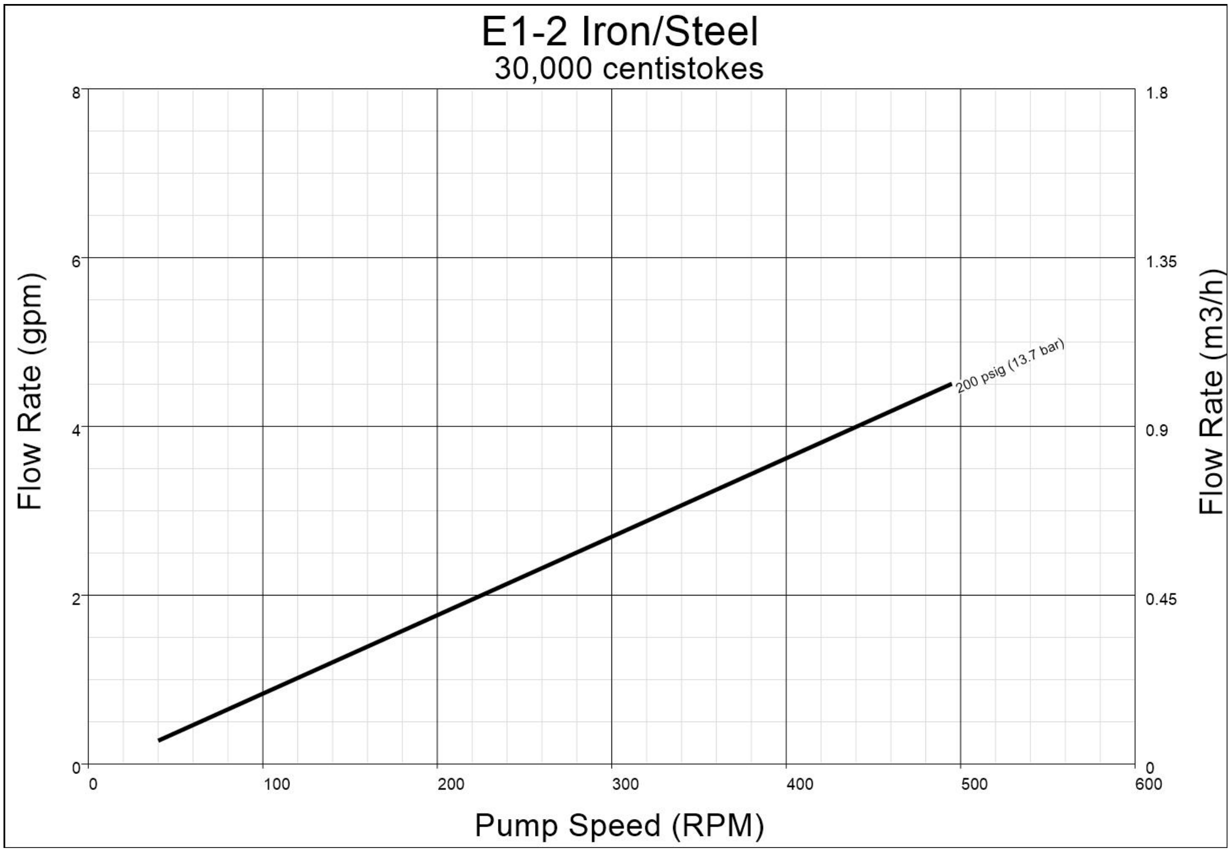

E1-2 Iron/Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
1
2
3
4
0
0.75
1.5
2.25
3
0
200
400
600
800
1000


E1-2 Iron/Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
200 psig (13.7 bar)
0
2
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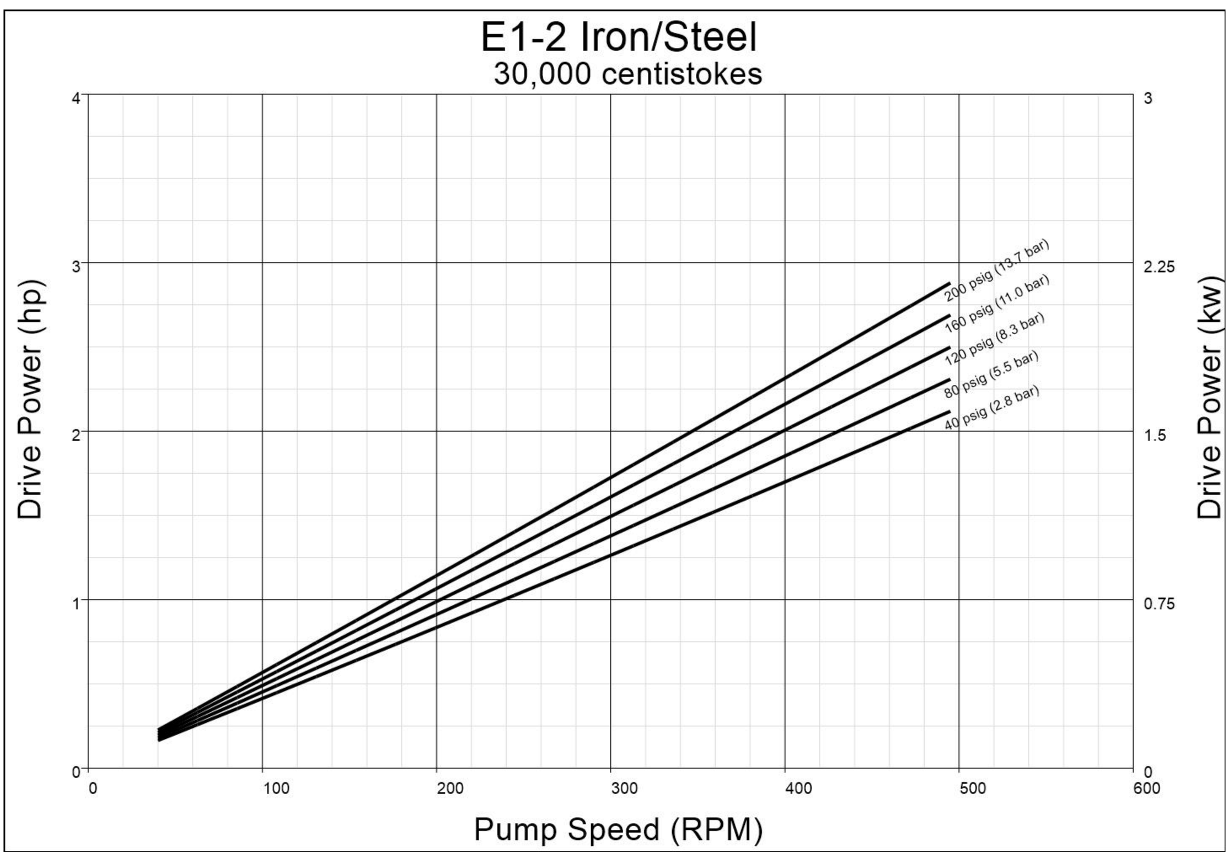
E1-2 Iron/Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
1
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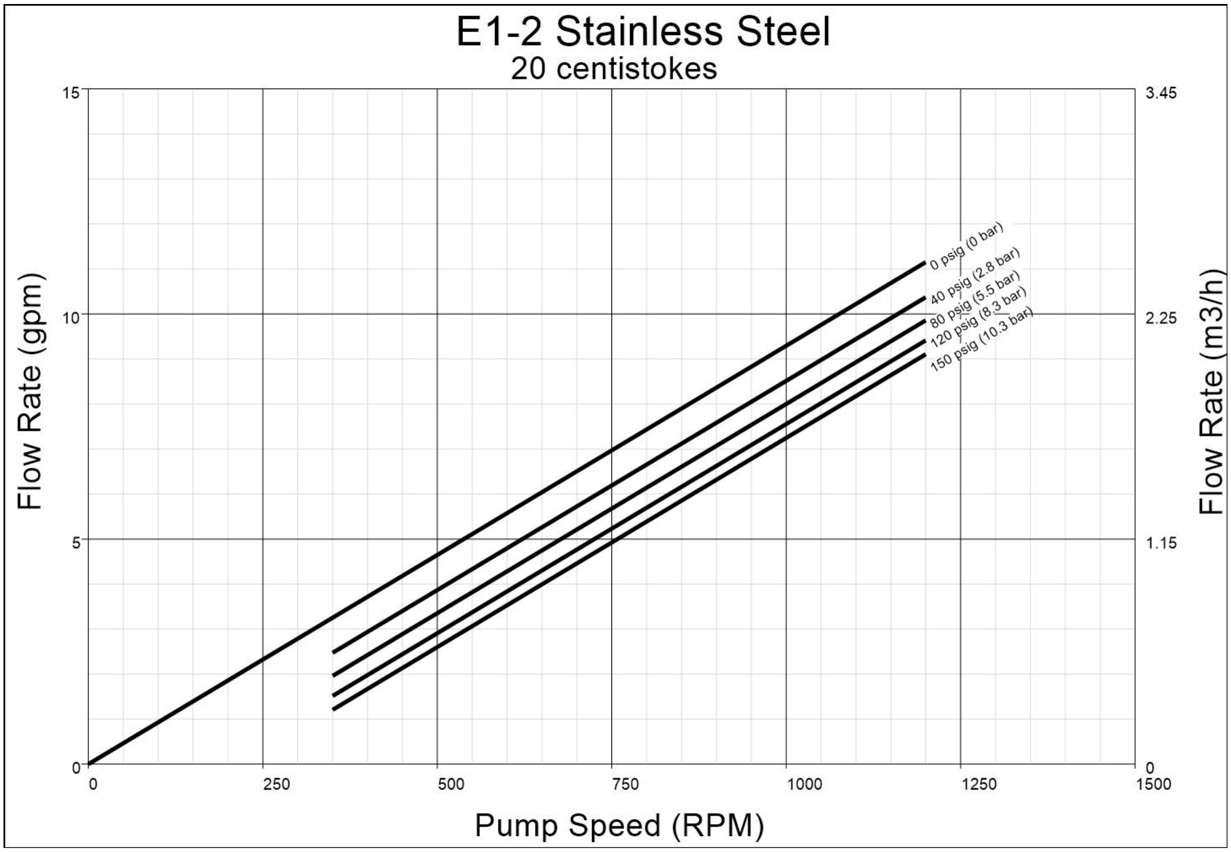
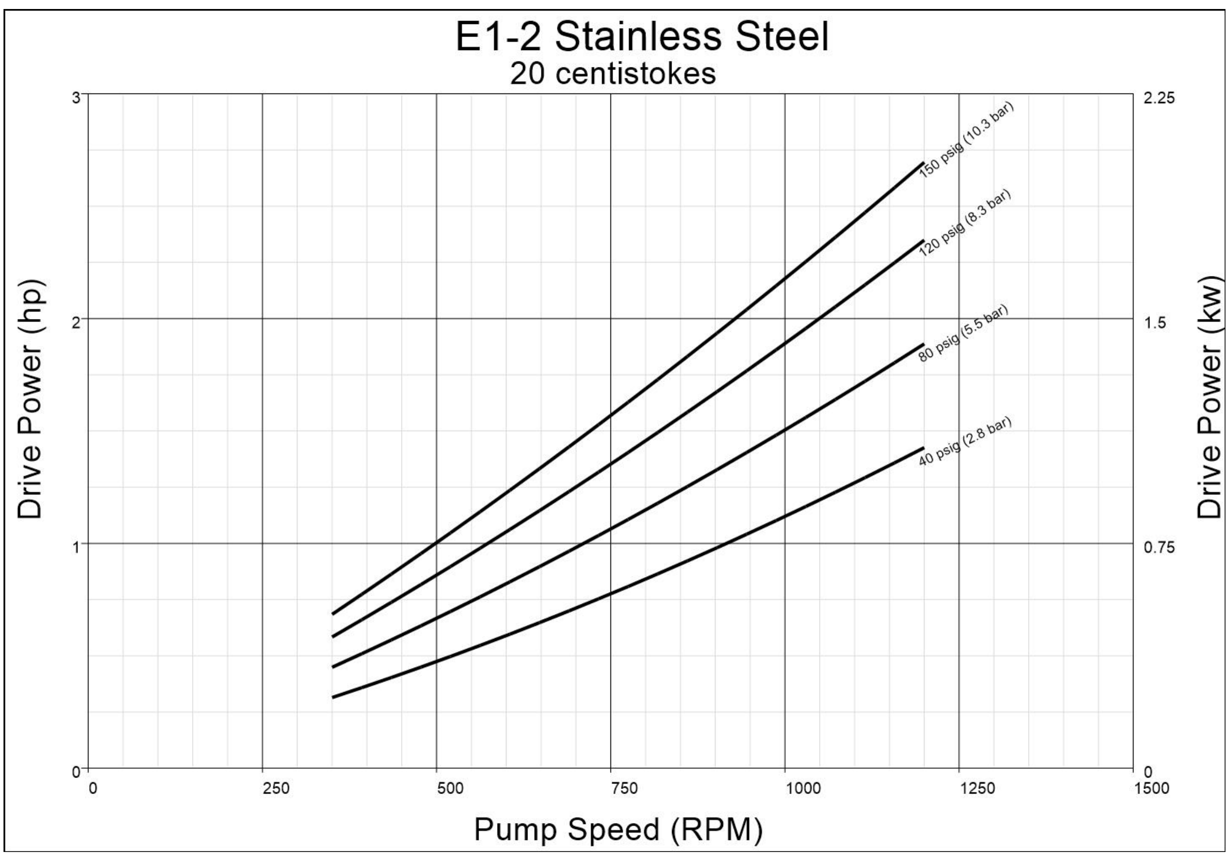
0
0.75
1.5
2.25
3
0
100
200
300
400
500
600


E1-2 Stainless Steel
20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
120 psig (8.3 bar)
150 psig (10.3 bar)
0
5
10
15
1.15
2.25
3.45
250
500
750
1000
1250
1500


E1-2 Stainless Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
1
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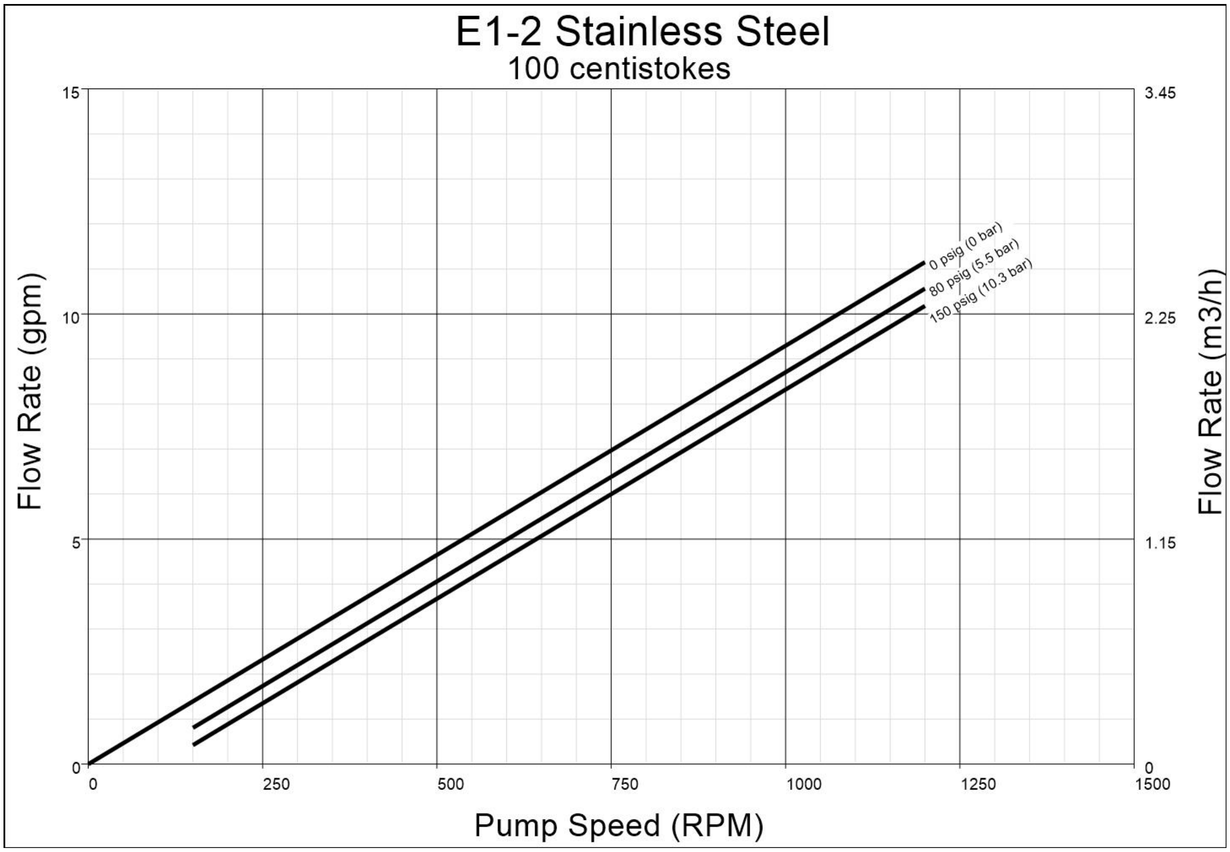
0.75
1.5
2.25
250
500
750
1000
1250
1500


E1-2 Stainless Steel
100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
80 psig (5.5 bar)
150 psig (10.3 bar)
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1.15
2.25
3.45
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750
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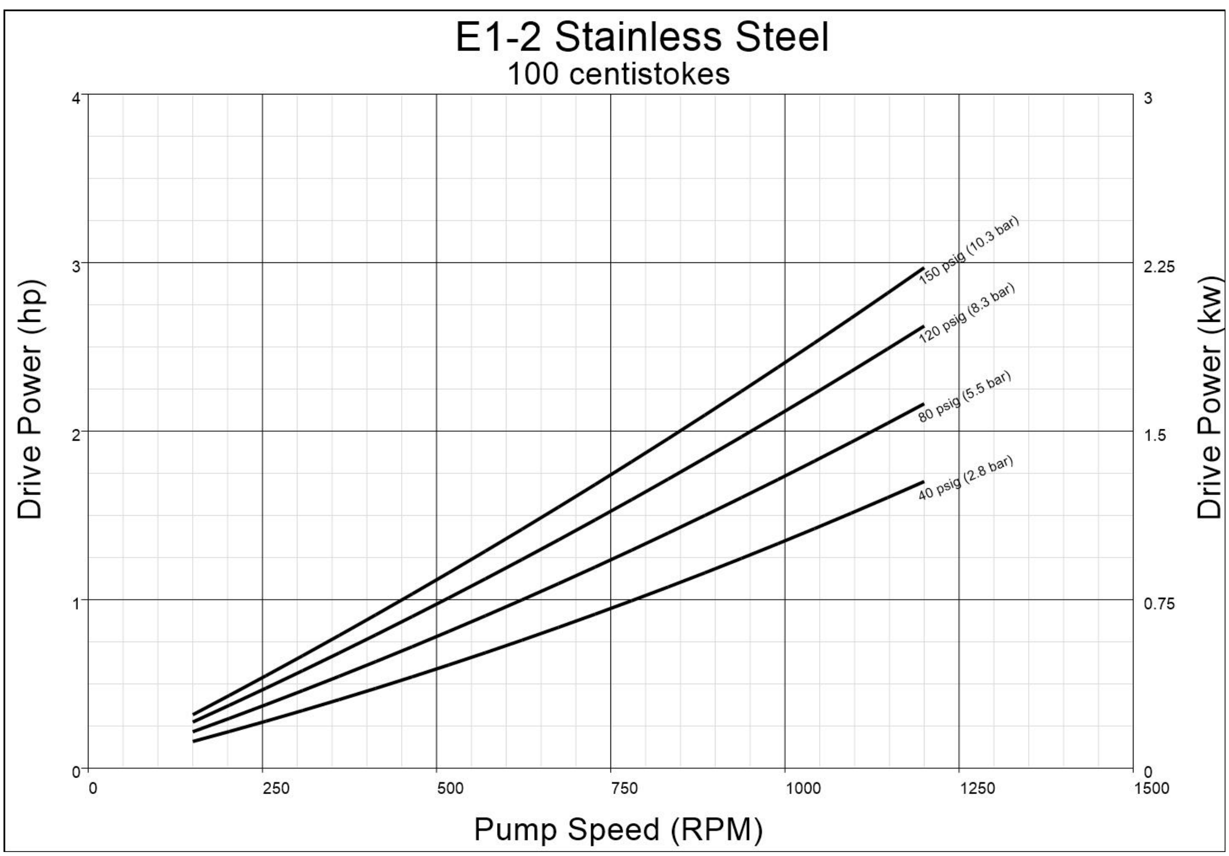
E1-2 Stainless Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
1
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0.75
1.5
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0
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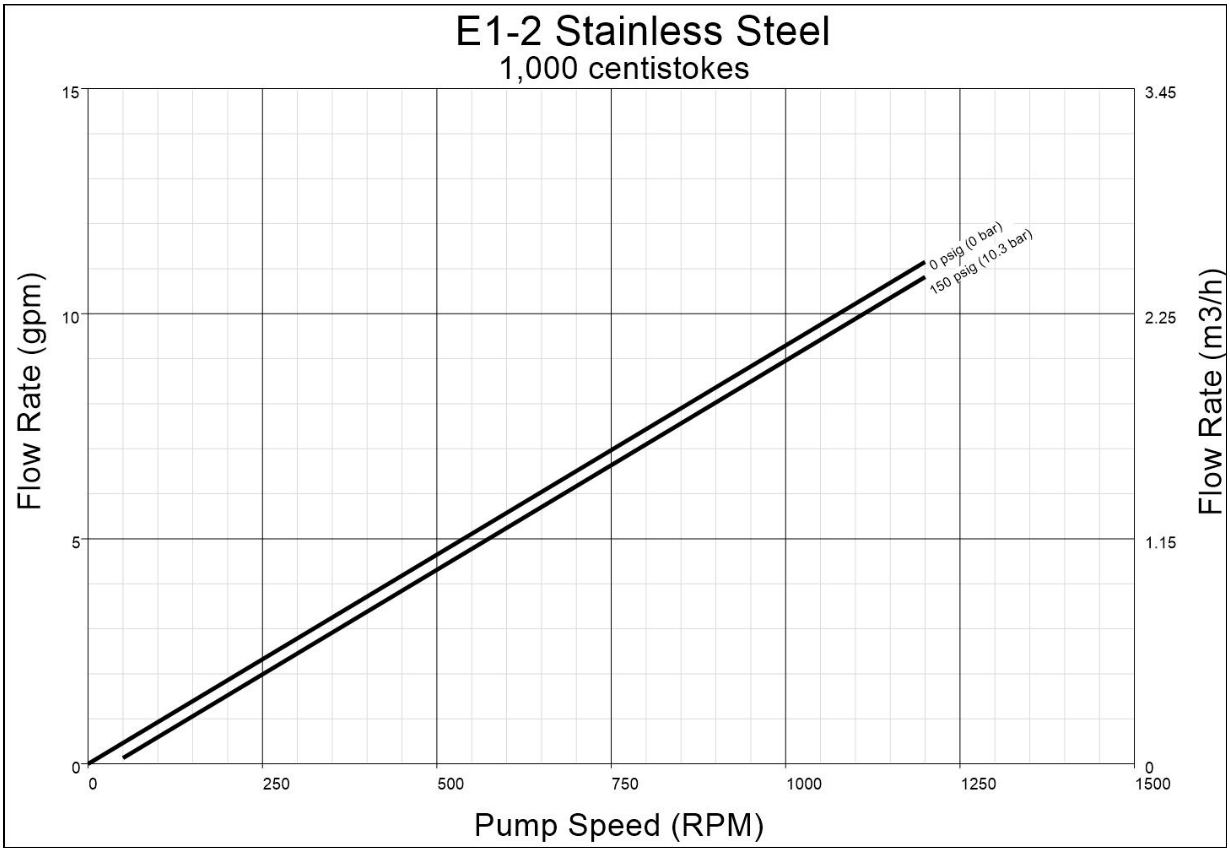
E1-2 Stainless Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
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0
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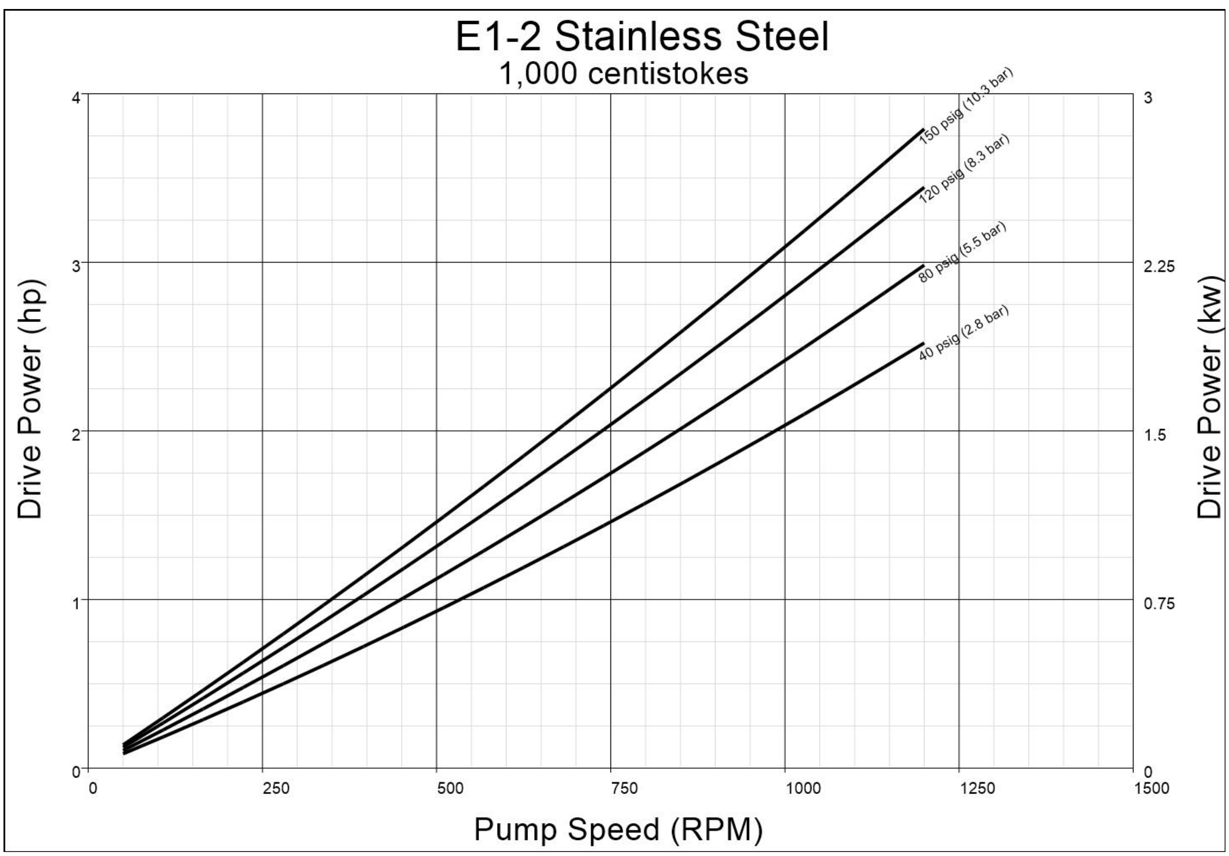
2.25
3.45


E1-2 Stainless Steel
1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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1.5
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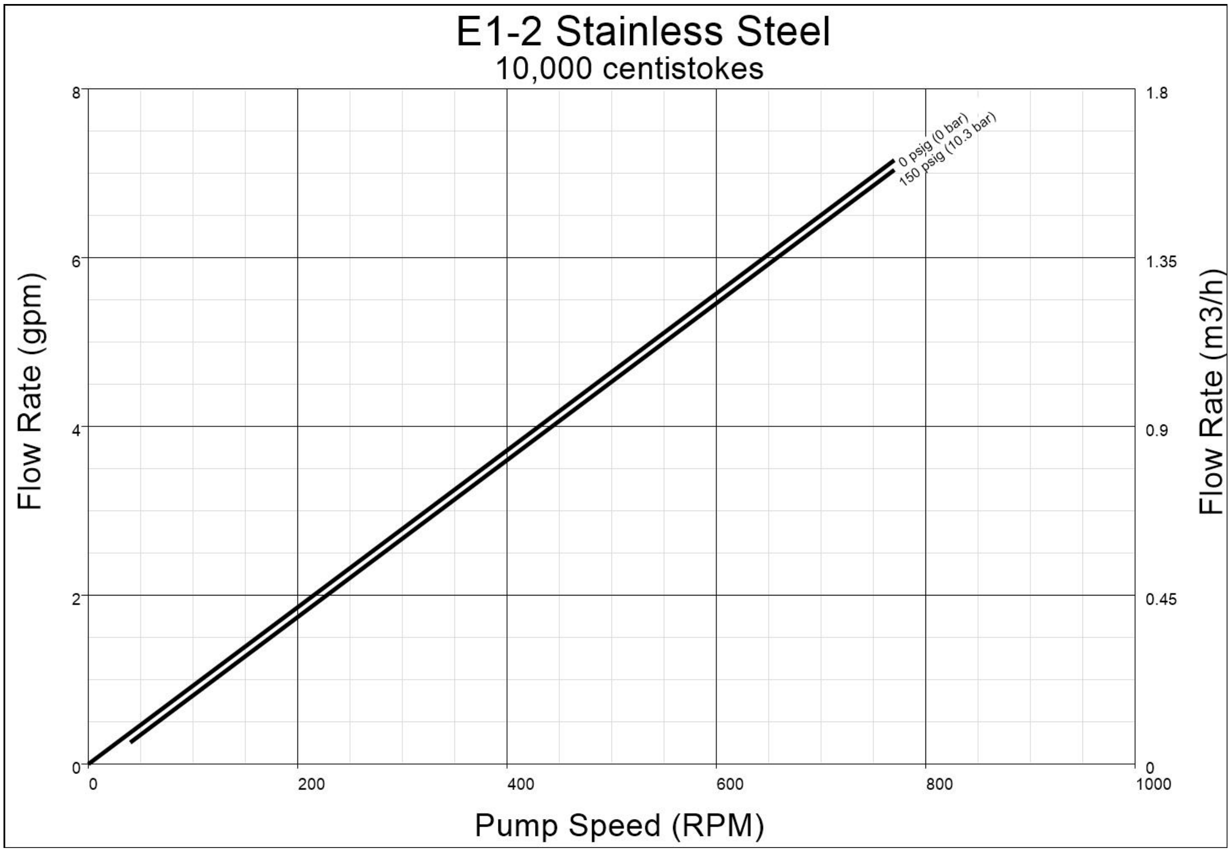
E1-2 Stainless Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
150 psig (10.3 bar)
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8
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0.45
0.9
1.35
1.8
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200
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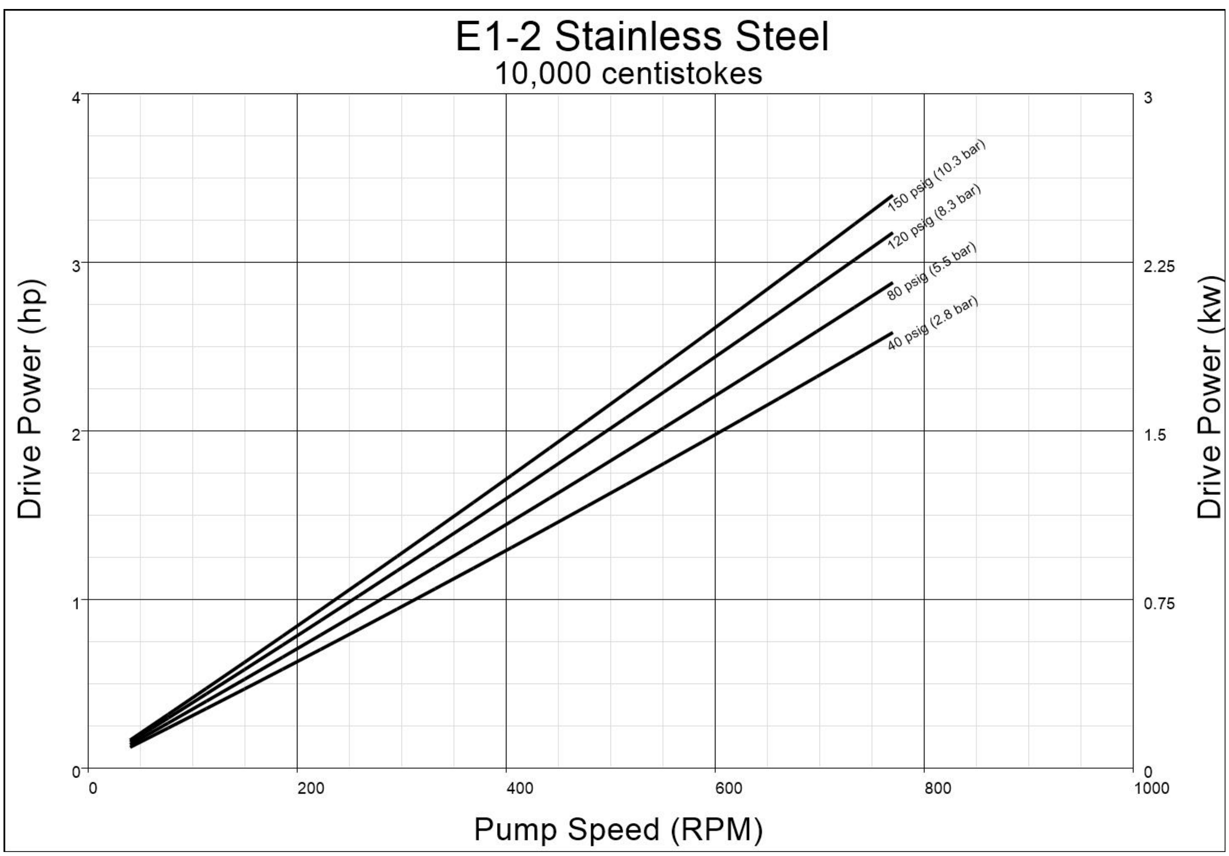
E1-2 Stainless Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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0.75
1.5
2.25
3
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200
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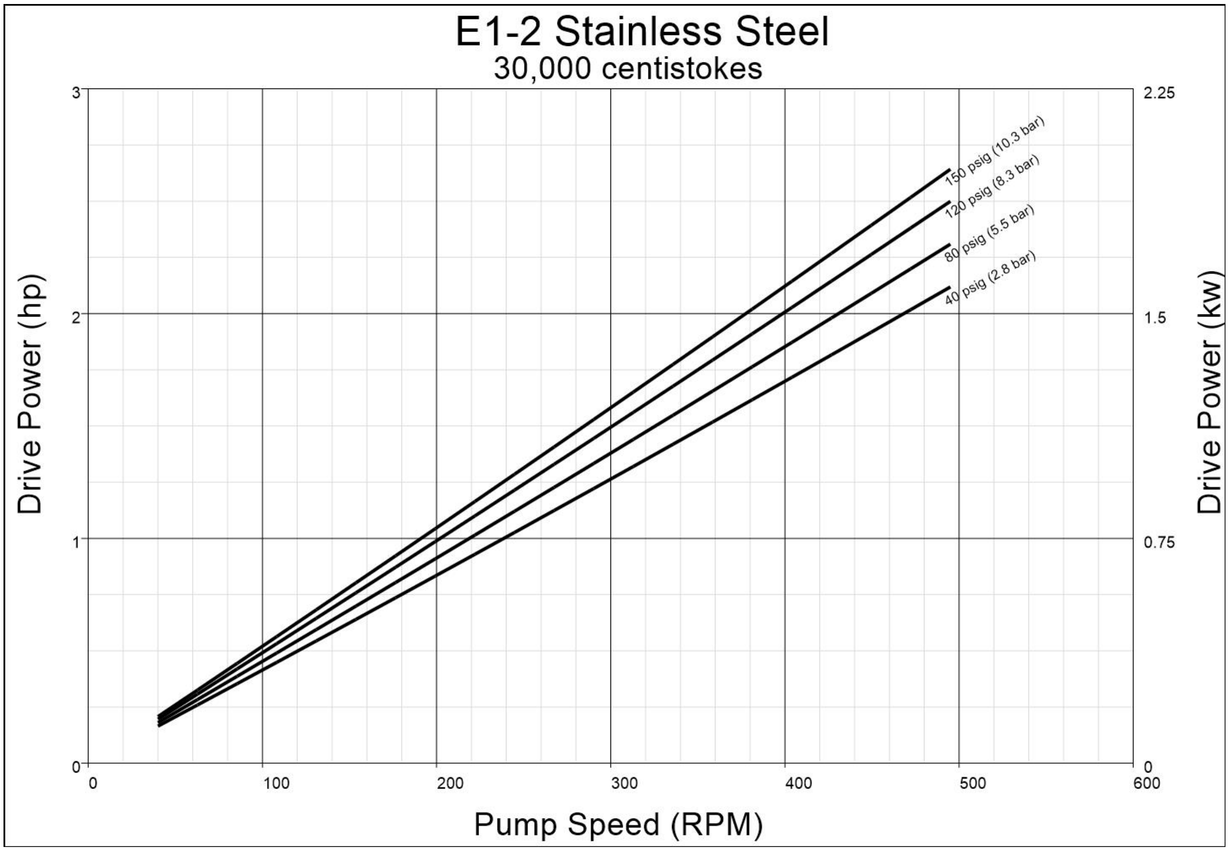
600
800
1000


E1-2 Stainless Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
100
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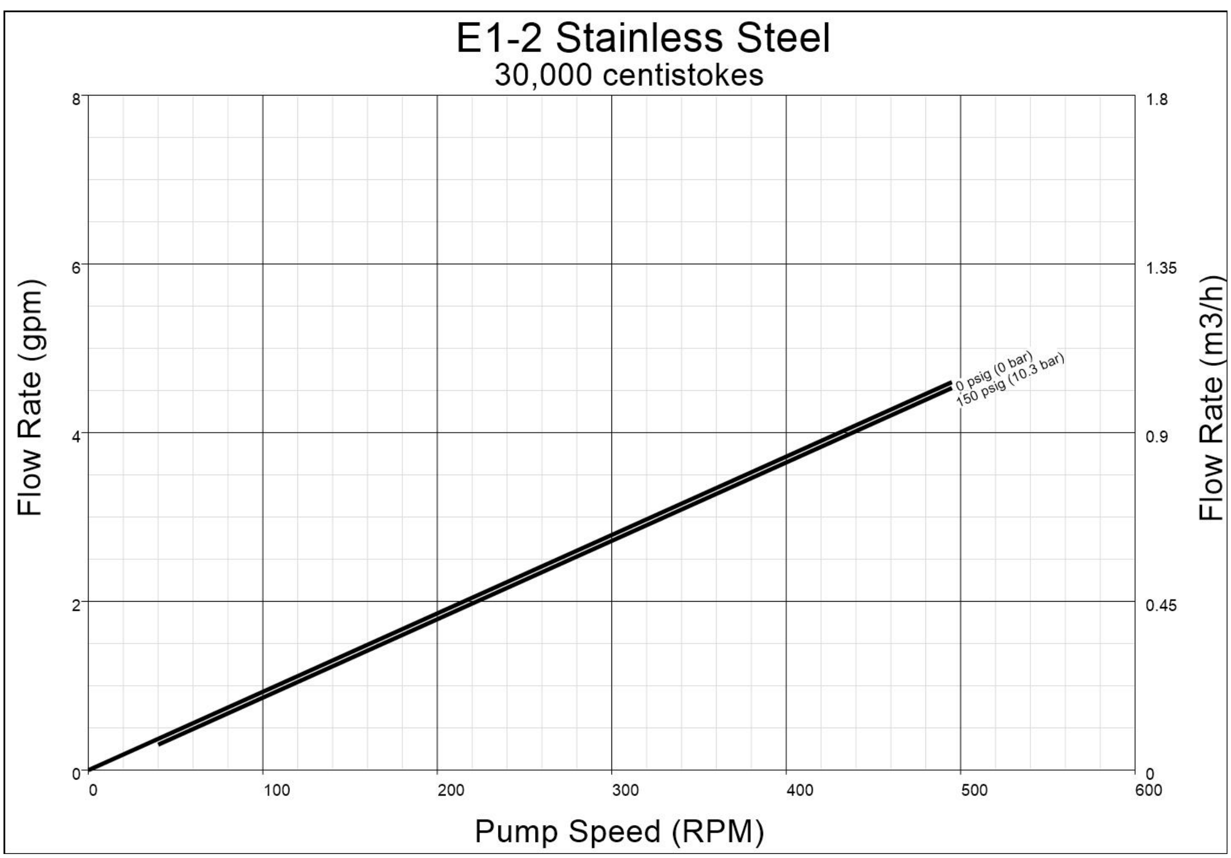
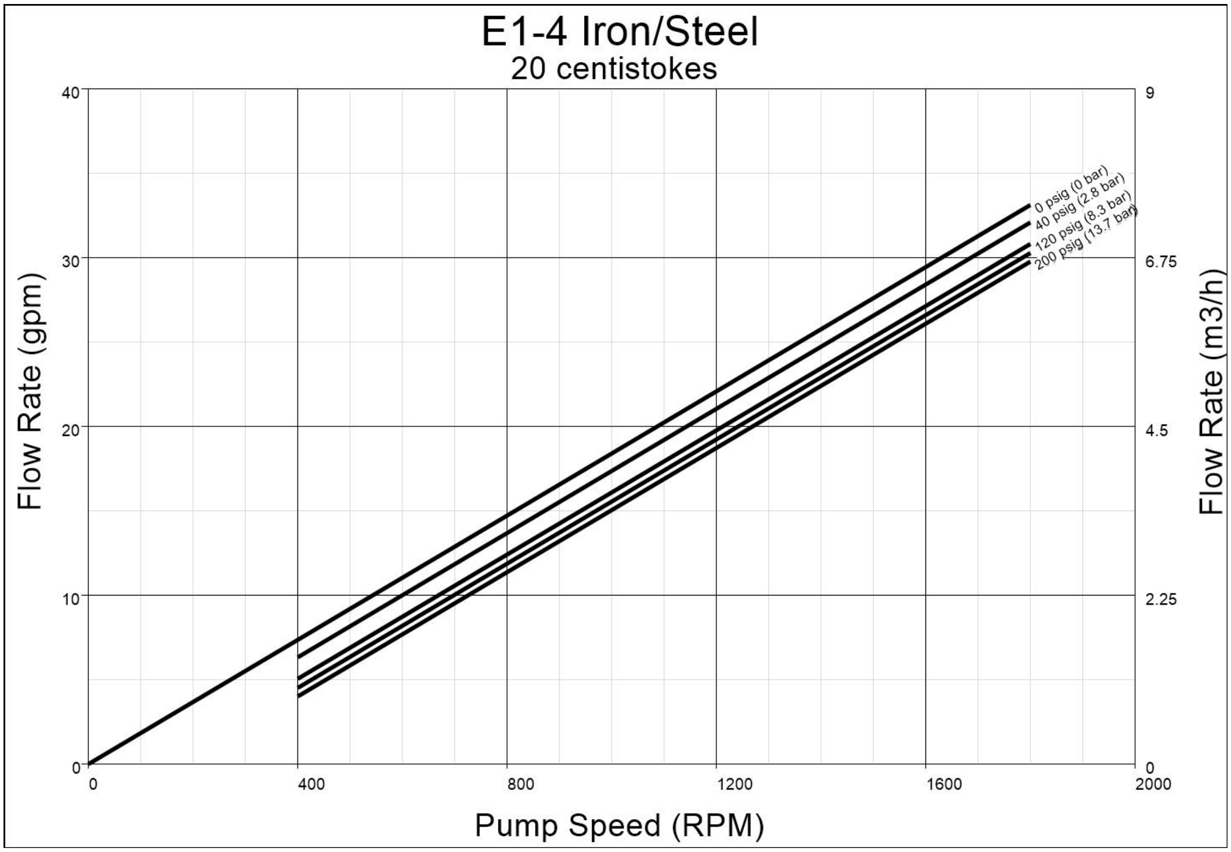
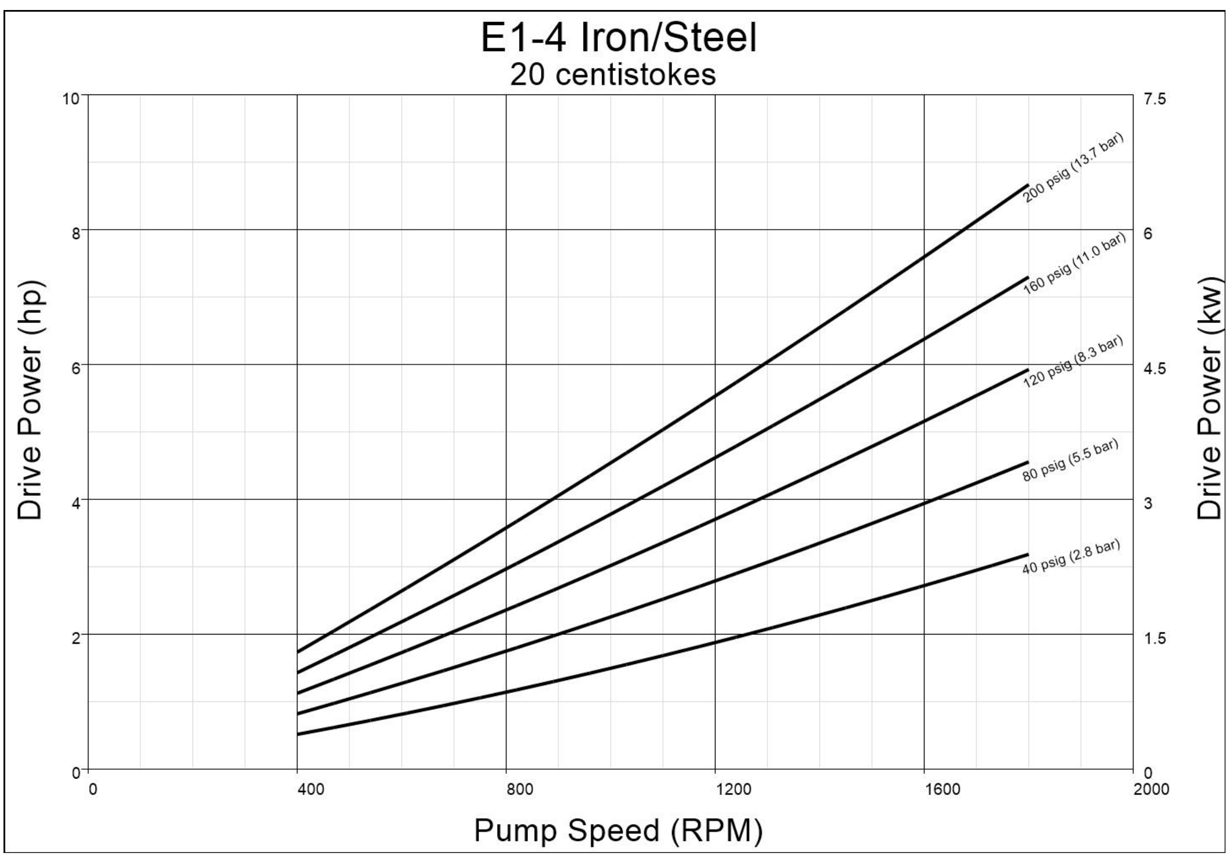
0.75
0


E1-2 Stainless Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
150 psig (10.3 bar)
0
100
200
300
400
500
600
8
6
4
2
0
1.8
1.35
0.9
0.45
0


E1-4 Iron/Steel
20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
120 psig (8.3 bar)
200 psig (13.7 bar)
0
10
20
30
40
2.25
4.5
6.75
9
400
800
1200
1600
2000


E1-4 Iron/Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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2
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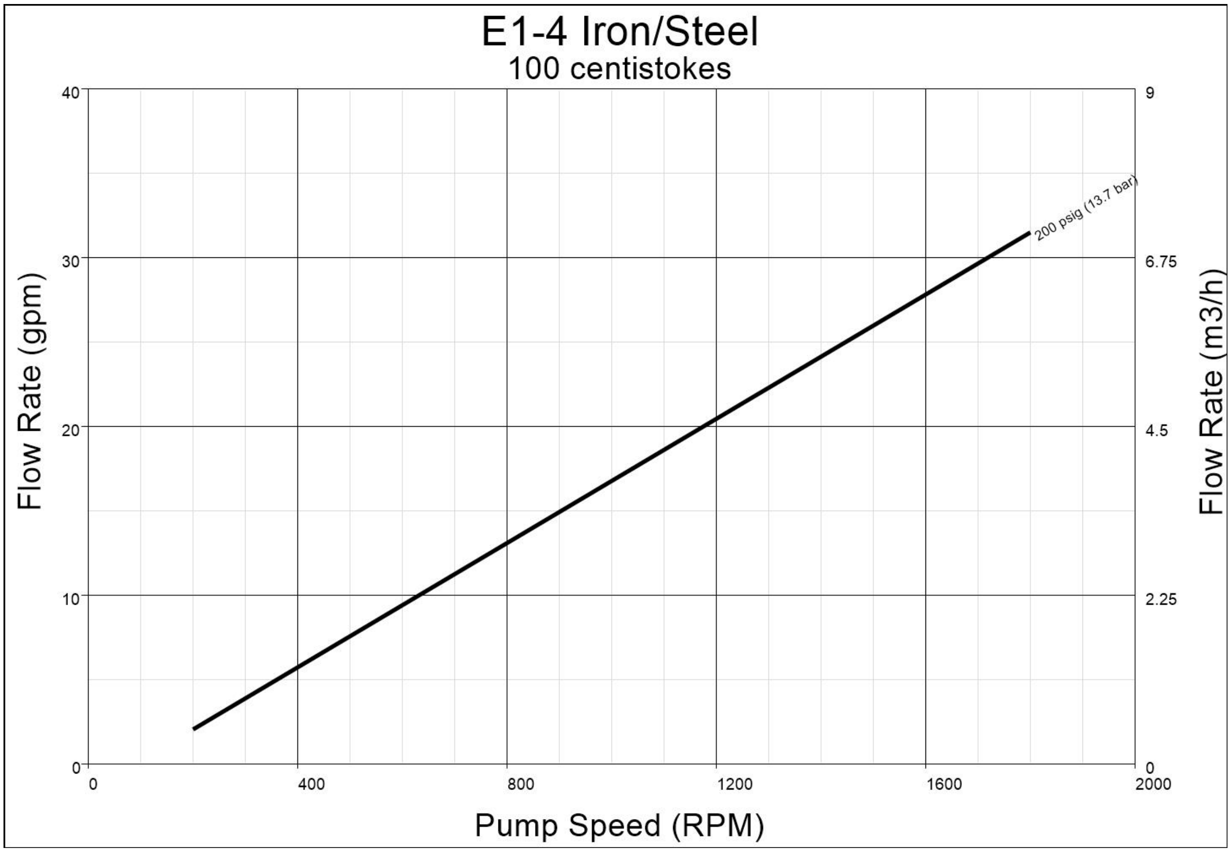
E1-4 Iron/Steel
100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
200 psig (13.7 bar)
0
10
20
30
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2.25
4.5
6.75
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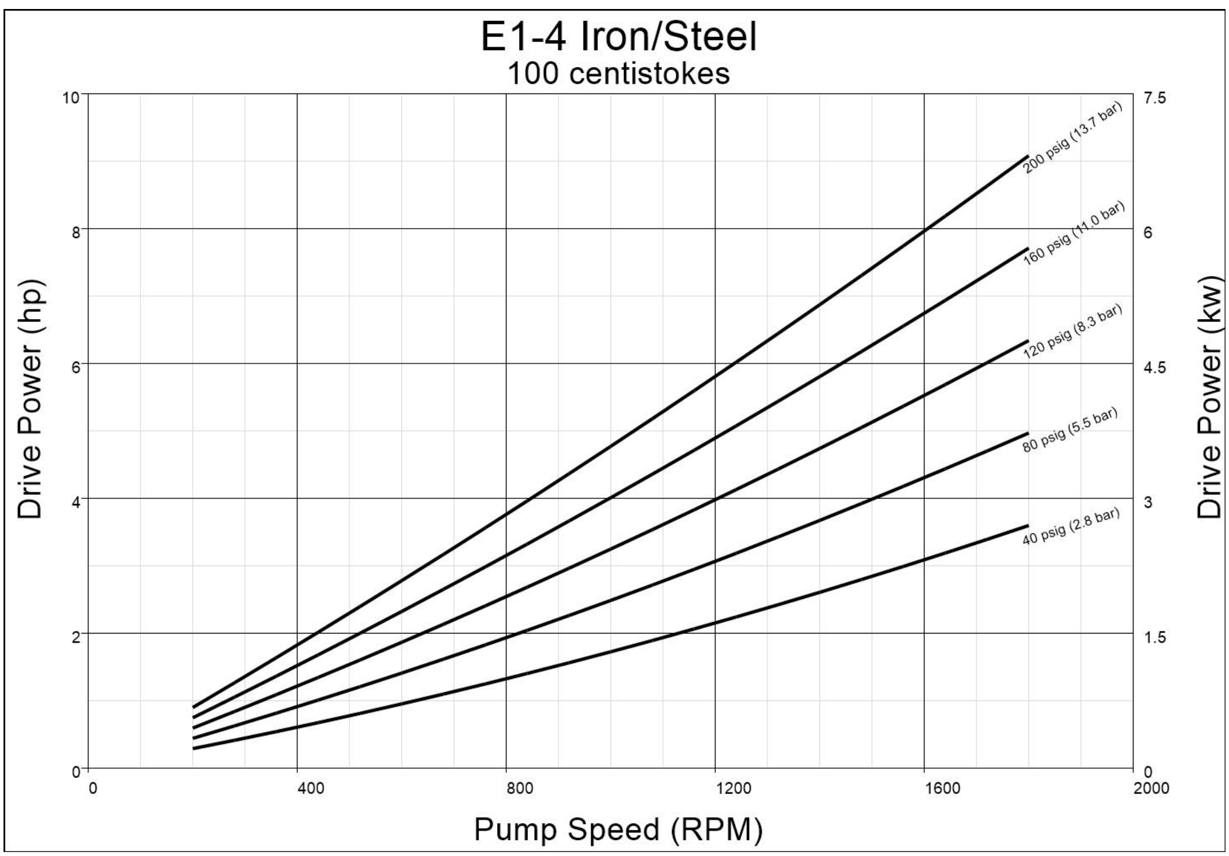
E1-4 Iron/Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
2
4
6
8
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1.5
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4.5
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7.5
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400
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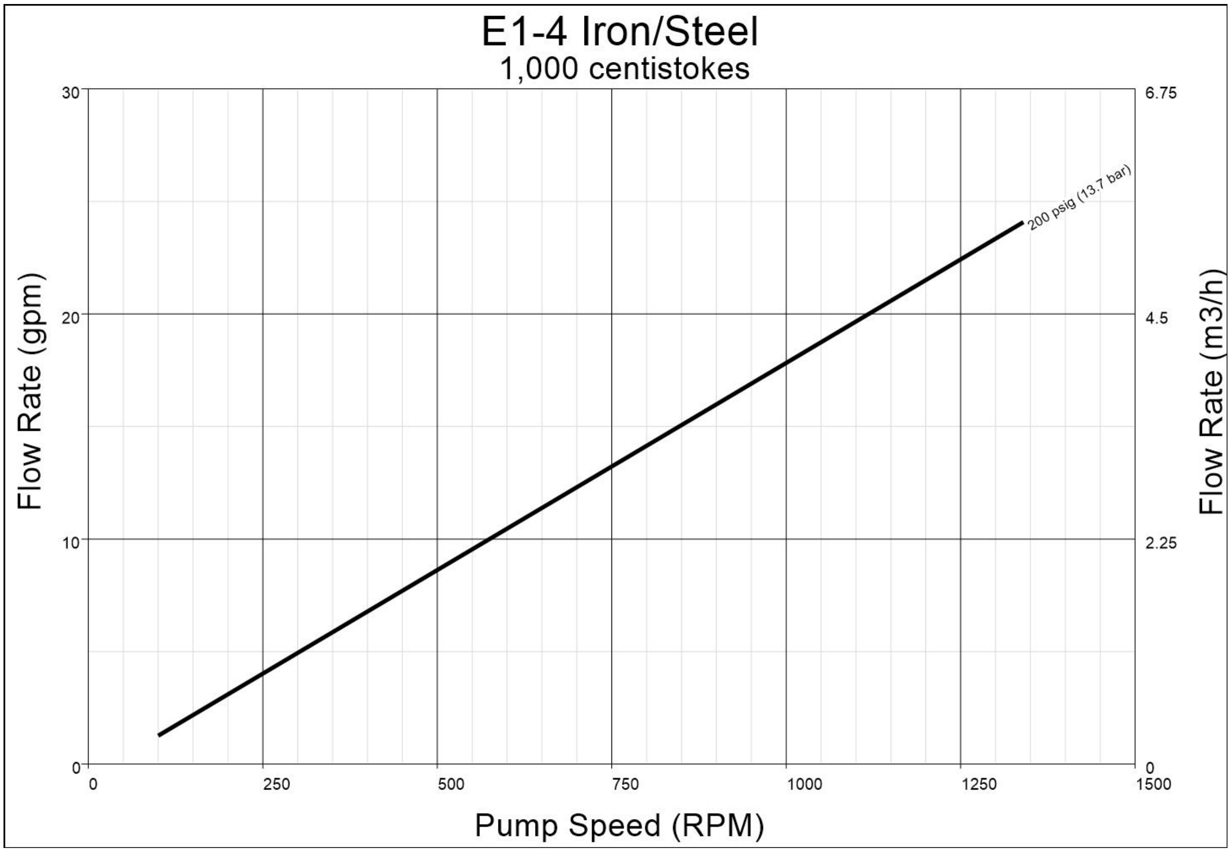
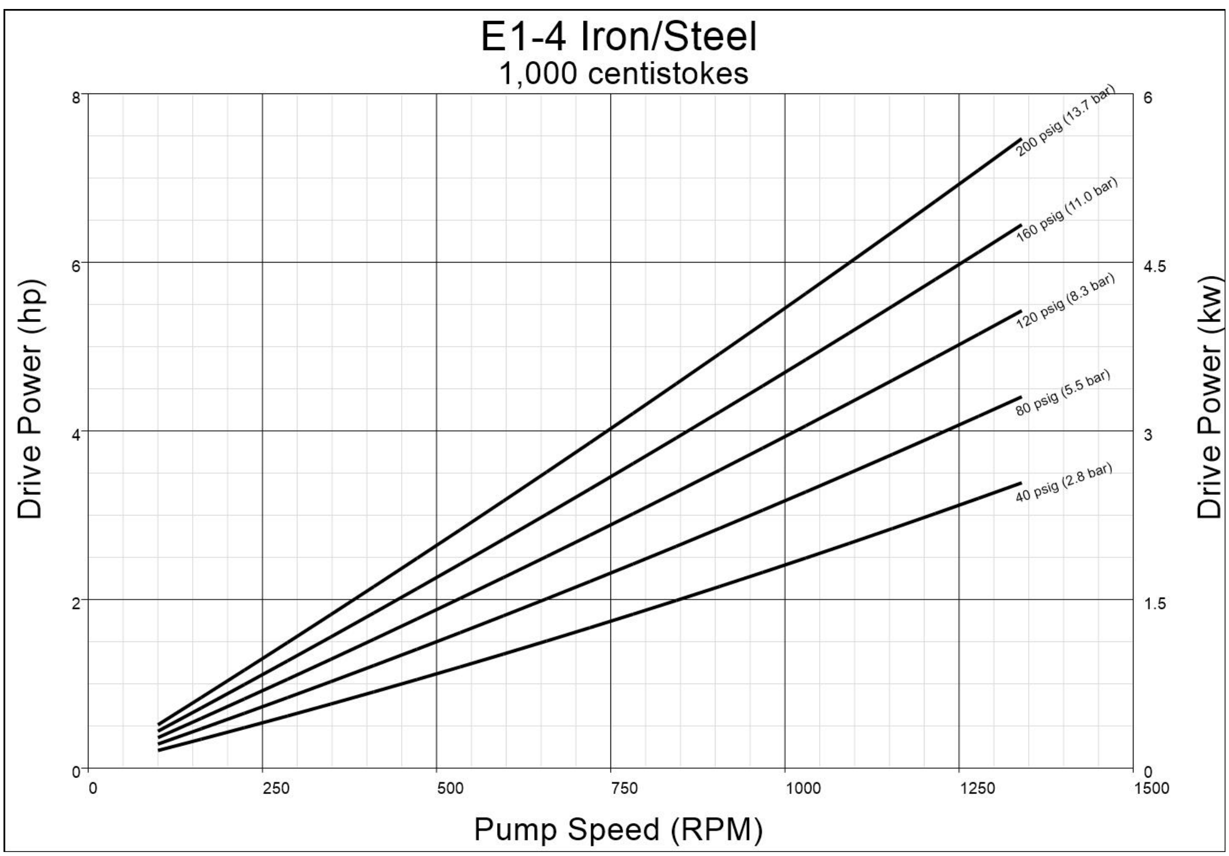

E1-4 Iron/Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
200 psig (13.7 bar)
0
10
20
30
0
2.25
4.5
6.75
0
250
500
750
1000
1250
1500


E1-4 Iron/Steel
1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
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4
6
8
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1.5
3
4.5
6
0
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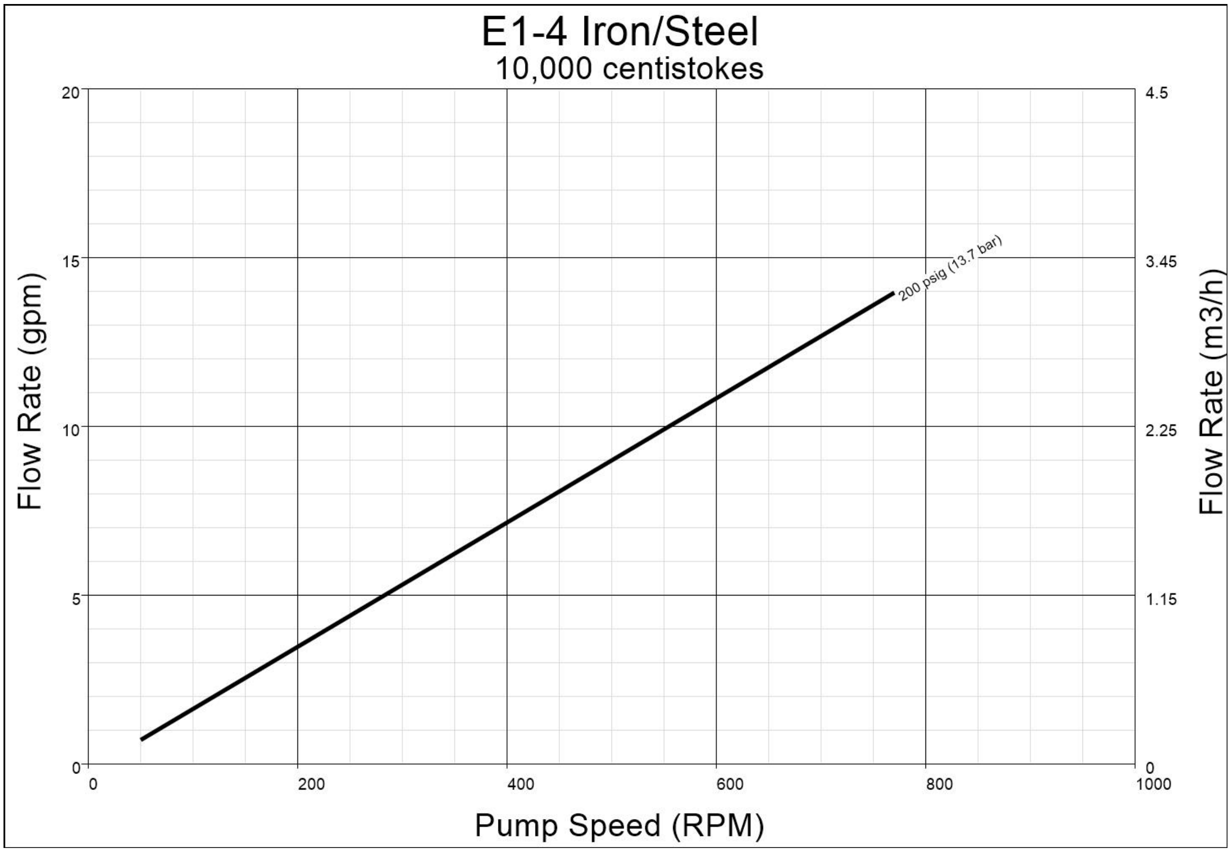
500
750
1000
1250
1500


E1-4 Iron/Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
200 psig (13.7 bar)
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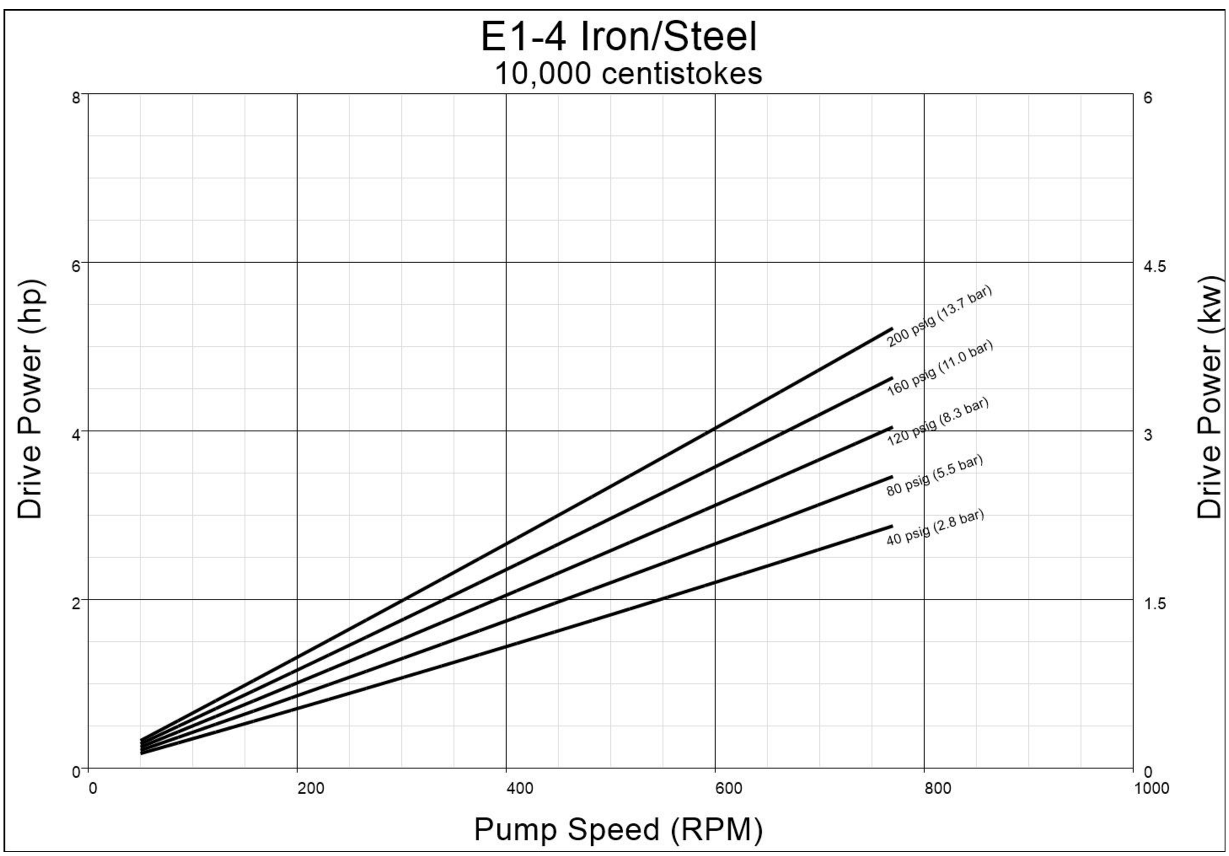
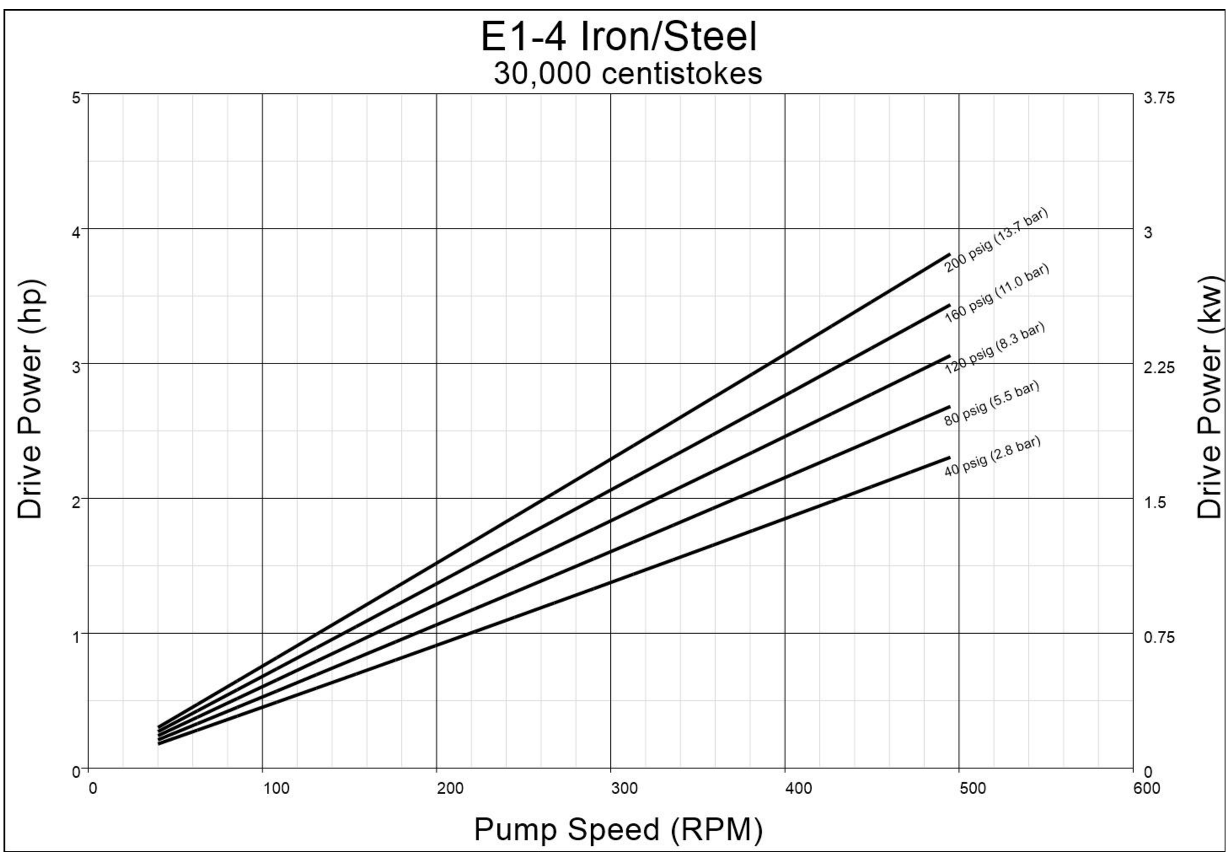
5
10
15
20
1.15
2.25
3.45
4.5
200
400
600
800
1000


E1-4 Iron/Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
2
4
6
8
1.5
3
4.5
200
400
600
800
1000


E1-4 Iron/Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
200 psig (13.7 bar)
15
10
5
0
3.45
2.25
1.15
0
0
100
200
300
400
500
600


E1-4 Iron/Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
5
4
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3.75
3
2.25
1.5
0.75
0
0
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200
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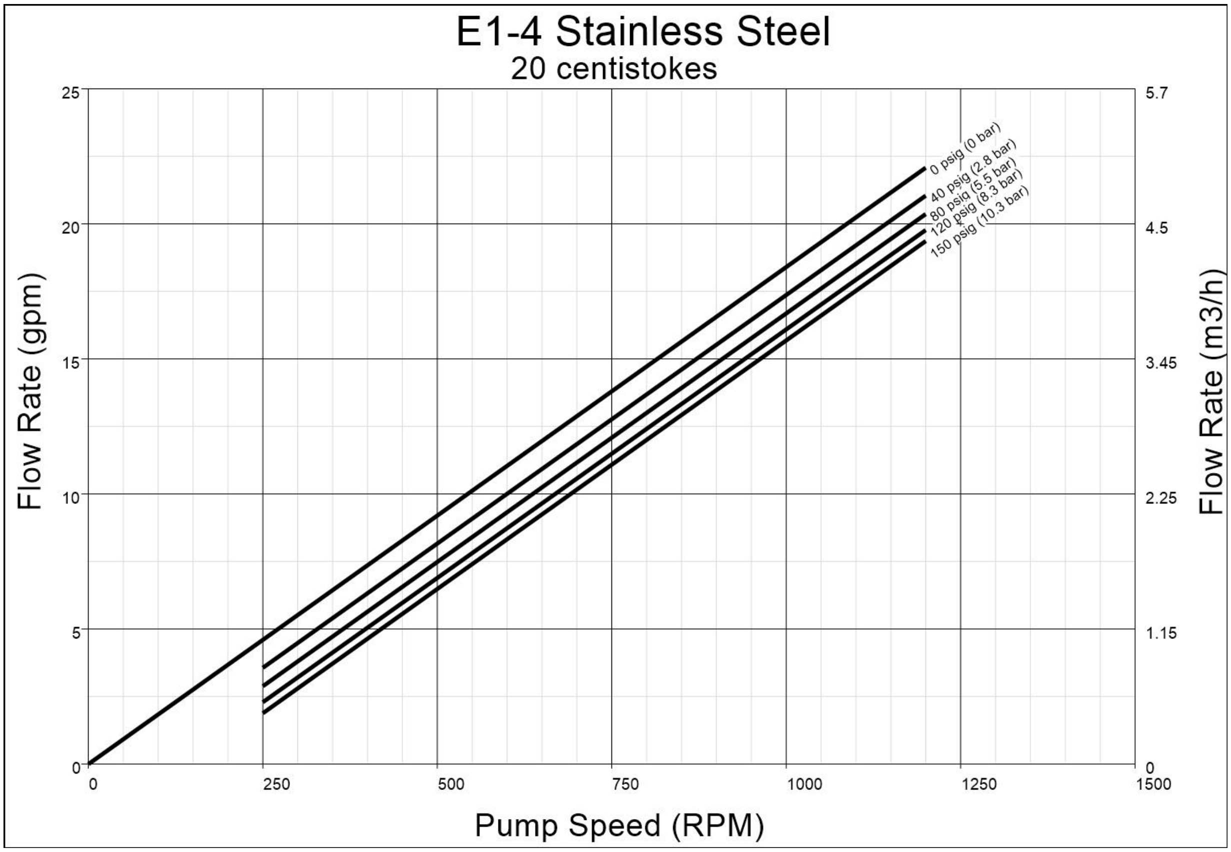
400
500
600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20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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40 psig (2.8 bar)
80 psig (5.5 bar)
120 psig (8.3 bar)
150 psig (10.3 bar)
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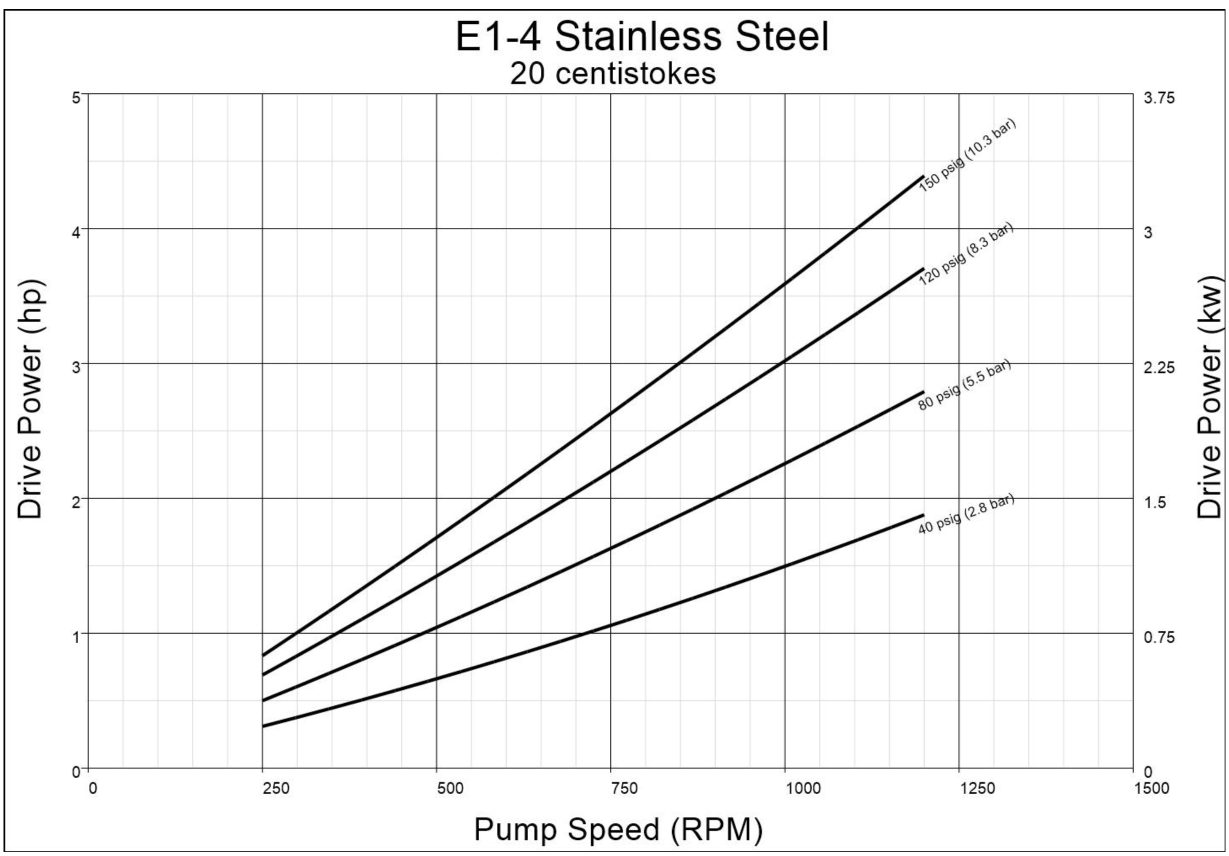
25
1.15
2.25
3.45
4.5
5.7
250
500
750
1000
1250
1500


E1-4 Stainless Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
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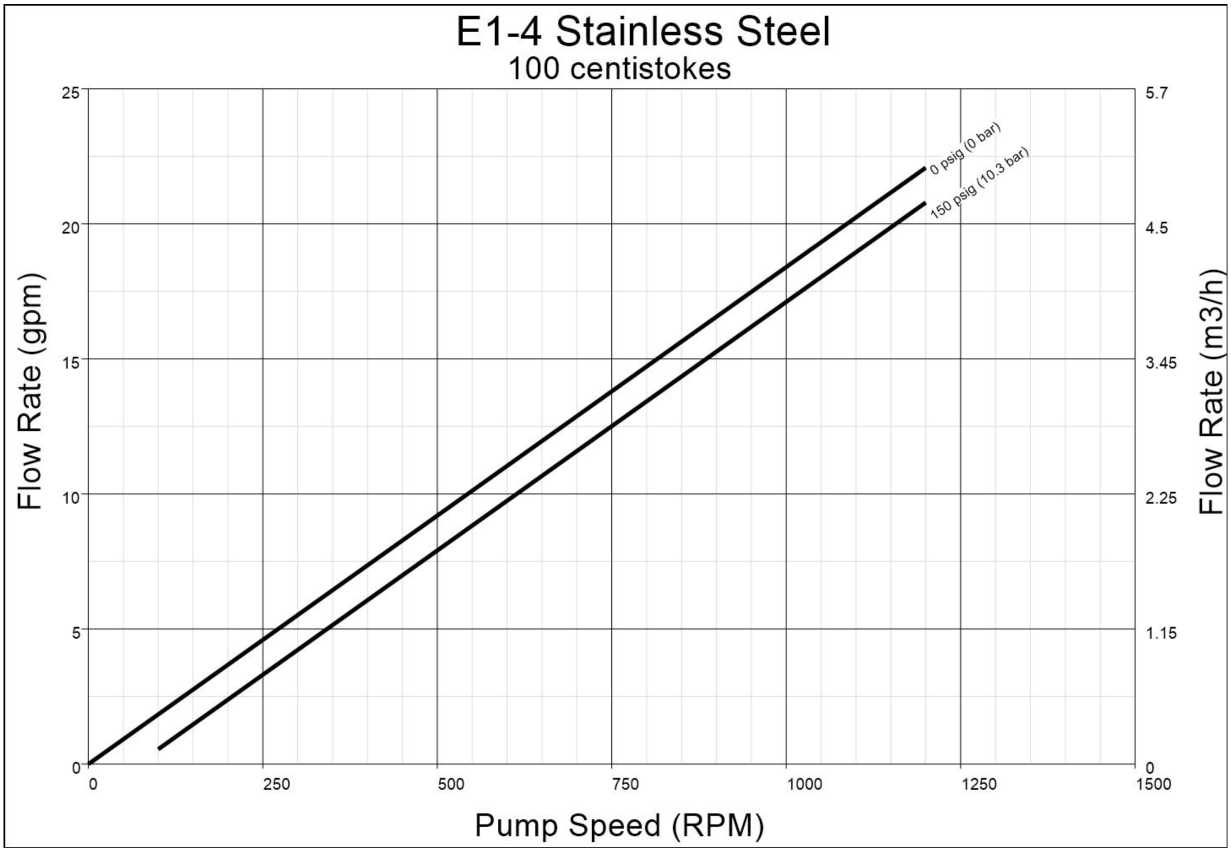
2
3
4
5
0.75
1.5
2.25
3
3.75
250
500
750
1000
1250
1500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100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
150 psig (10.3 bar)
0
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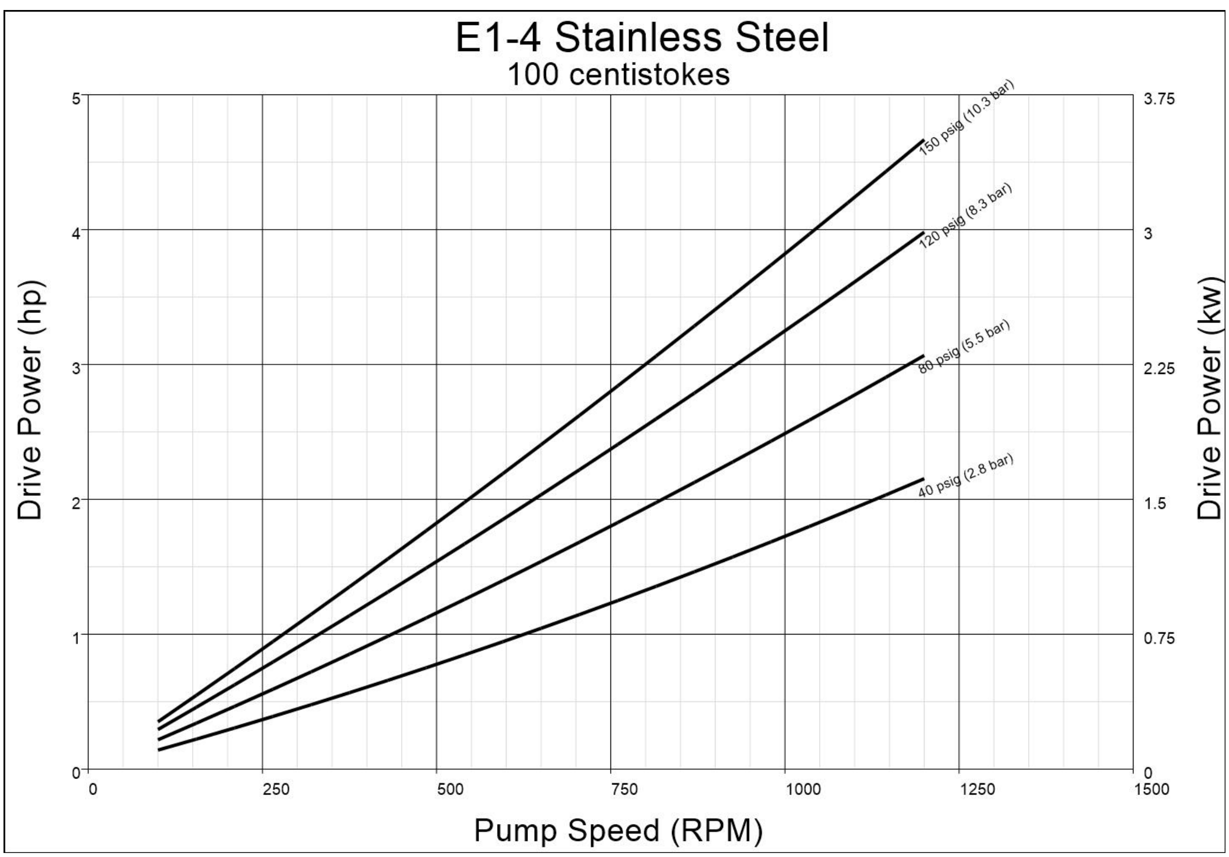
1000
1250
1500
5
10
15
20
25
1.15
2.25
3.45
4.5
5.7


E1-4 Stainless Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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1500
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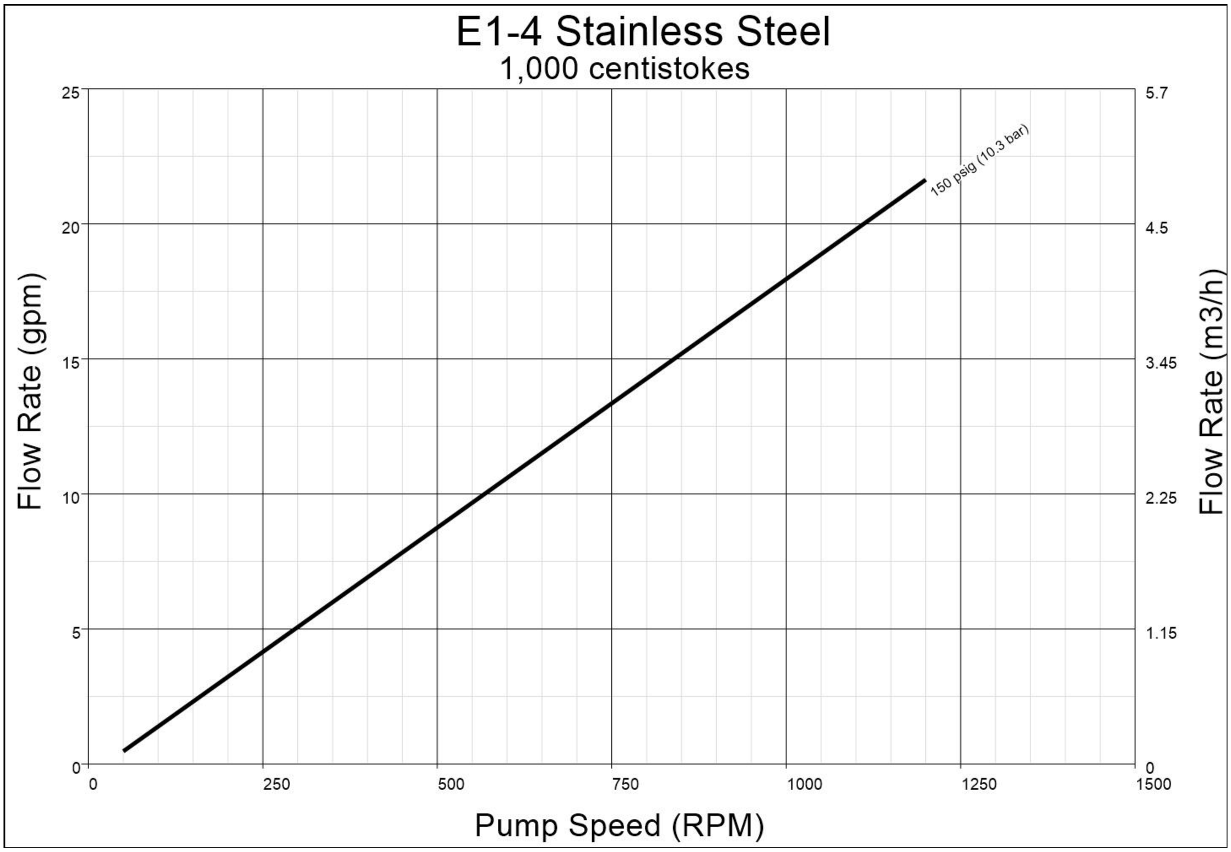
5
0.75
1.5
2.25
3
3.75


E1-4 Stainless Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
150 psig (10.3 bar)
0
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1250
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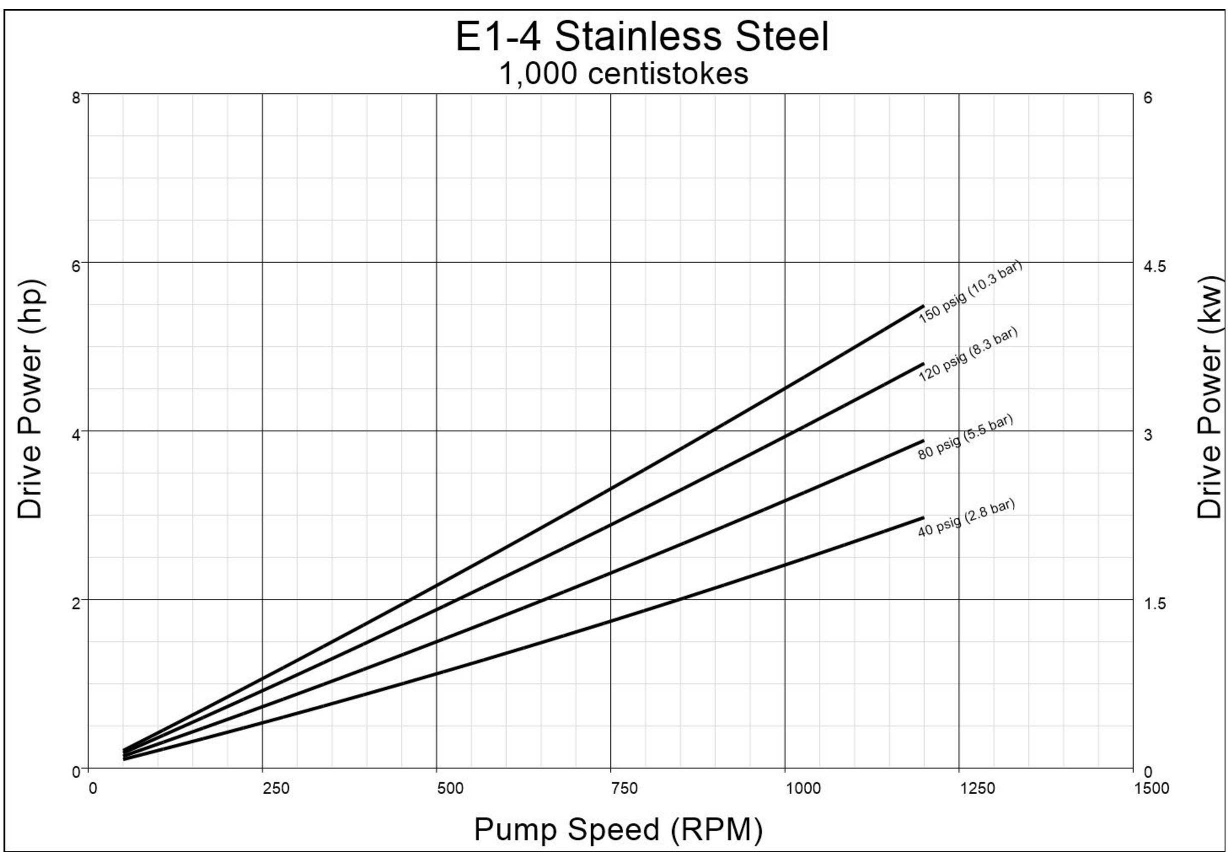
1.15
2.25
3.45
4.5
5.7


E1-4 Stainless Steel
1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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750
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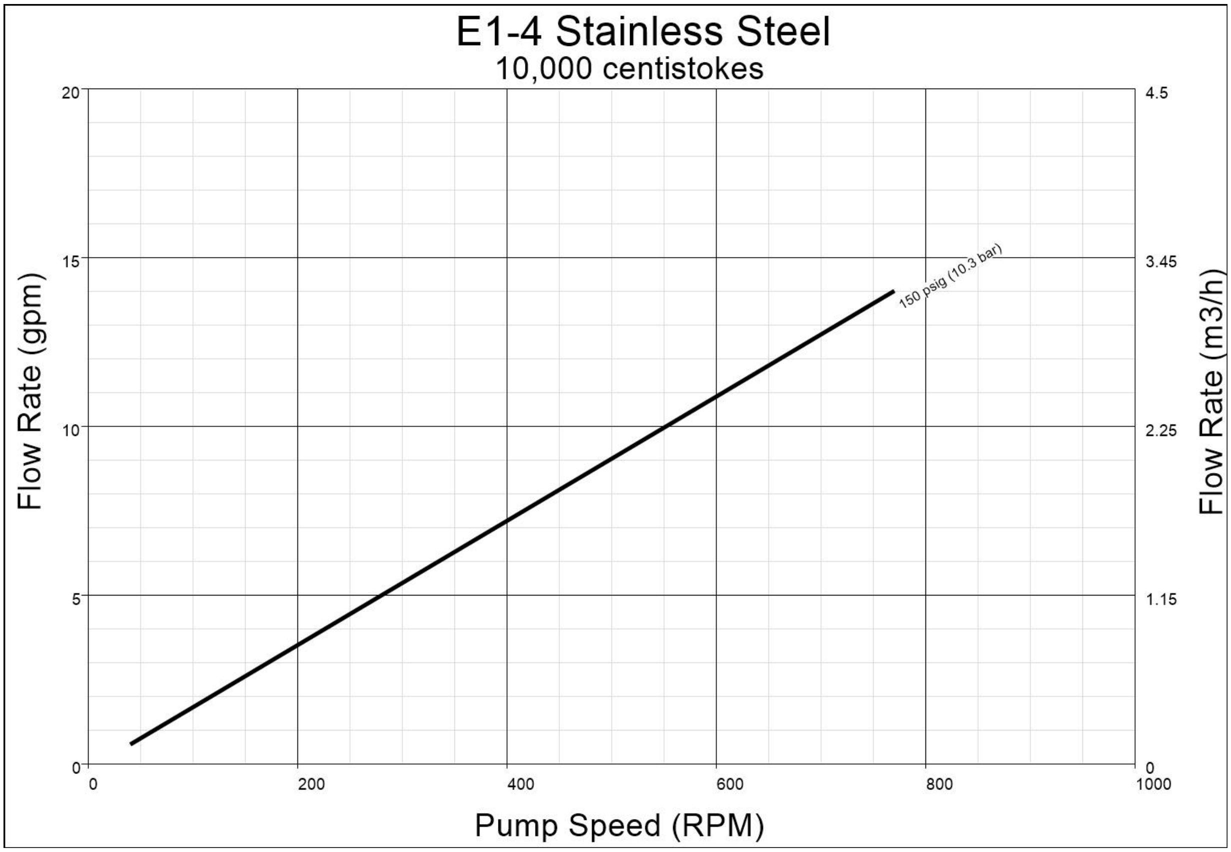
3
4.5
6


E1-4 Stainless Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
150 psig (10.3 bar)
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2.25
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4.5
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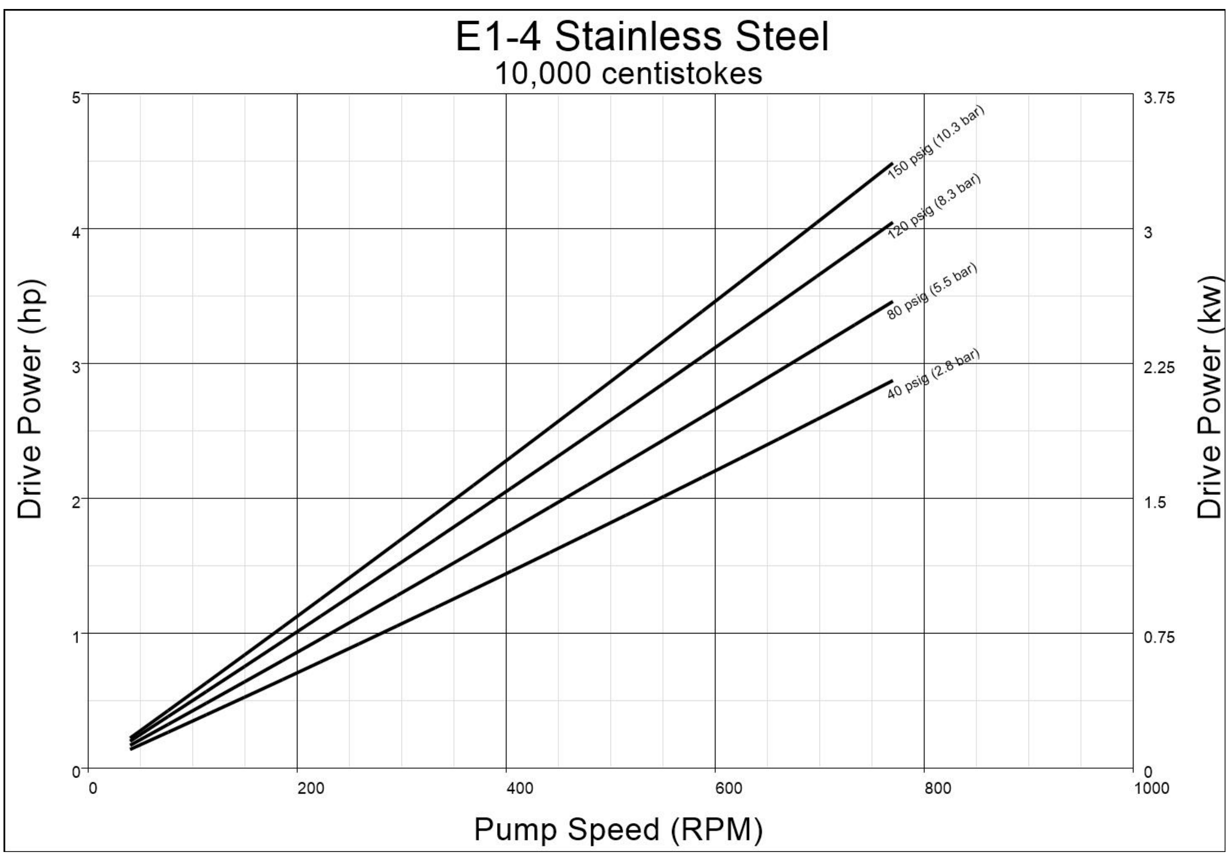
E1-4 Stainless Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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1.5
2.25
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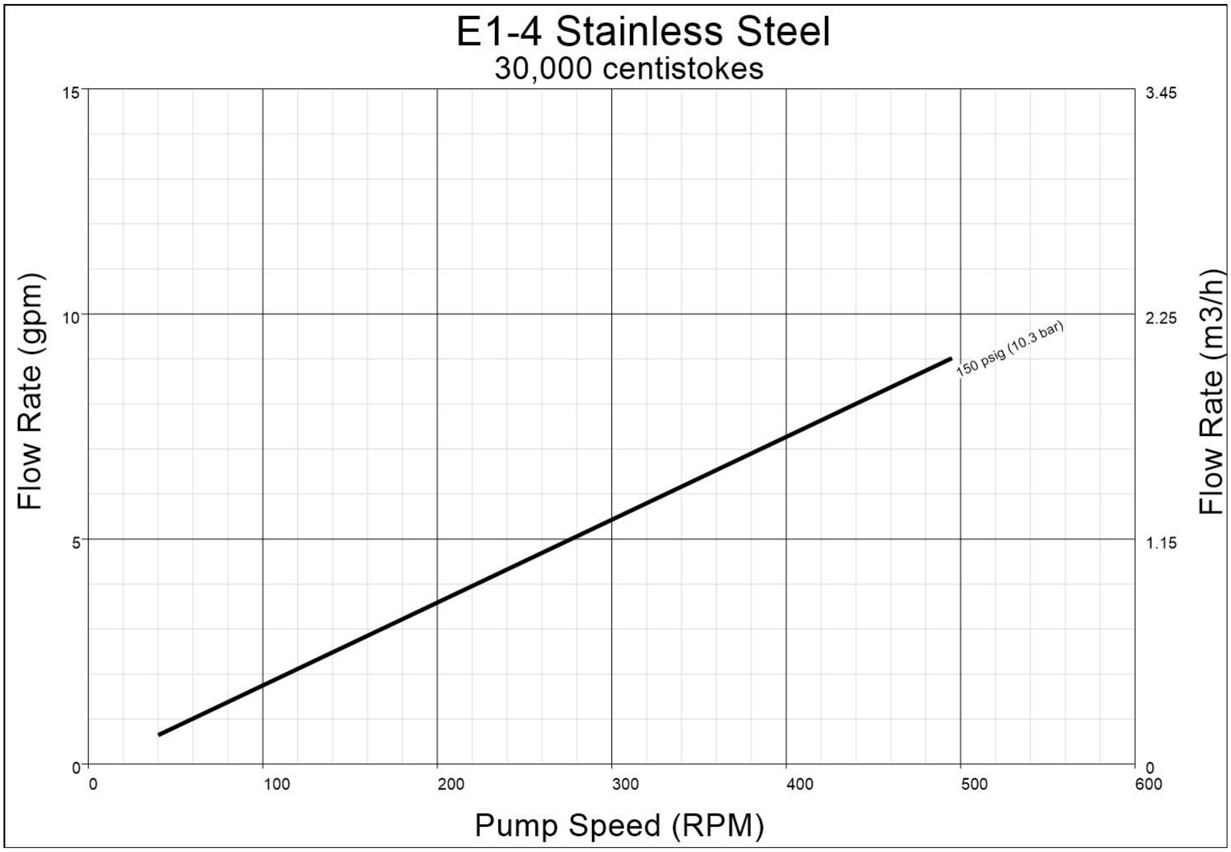
E1-4 Stainless Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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3.45
2.25
1.15
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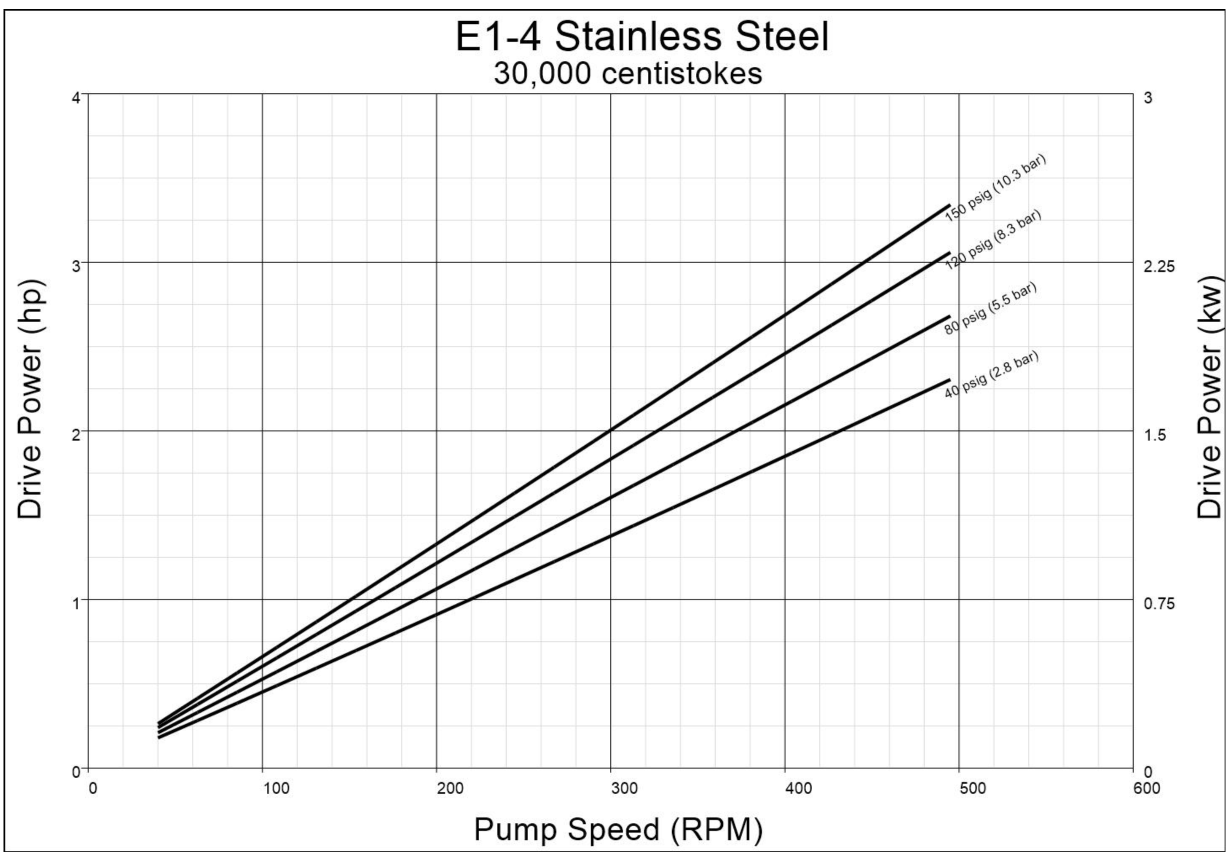
E1-4 Stainless Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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1
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2.25
1.5
0.75
0
0
100
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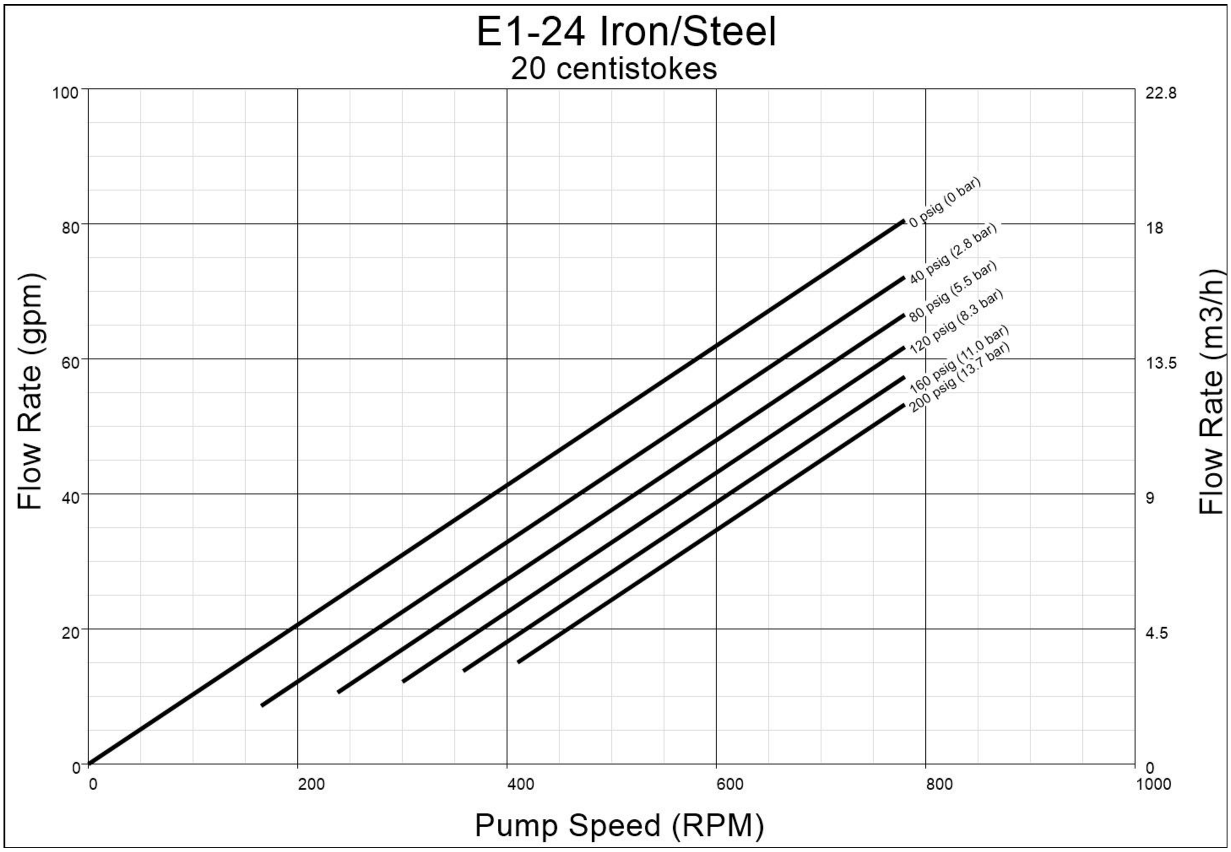
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20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
120 psig (8.3 bar)
160 psig (11.0 bar)
200 psig (13.7 bar)
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100
4.5
9
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18
22.8
200
400
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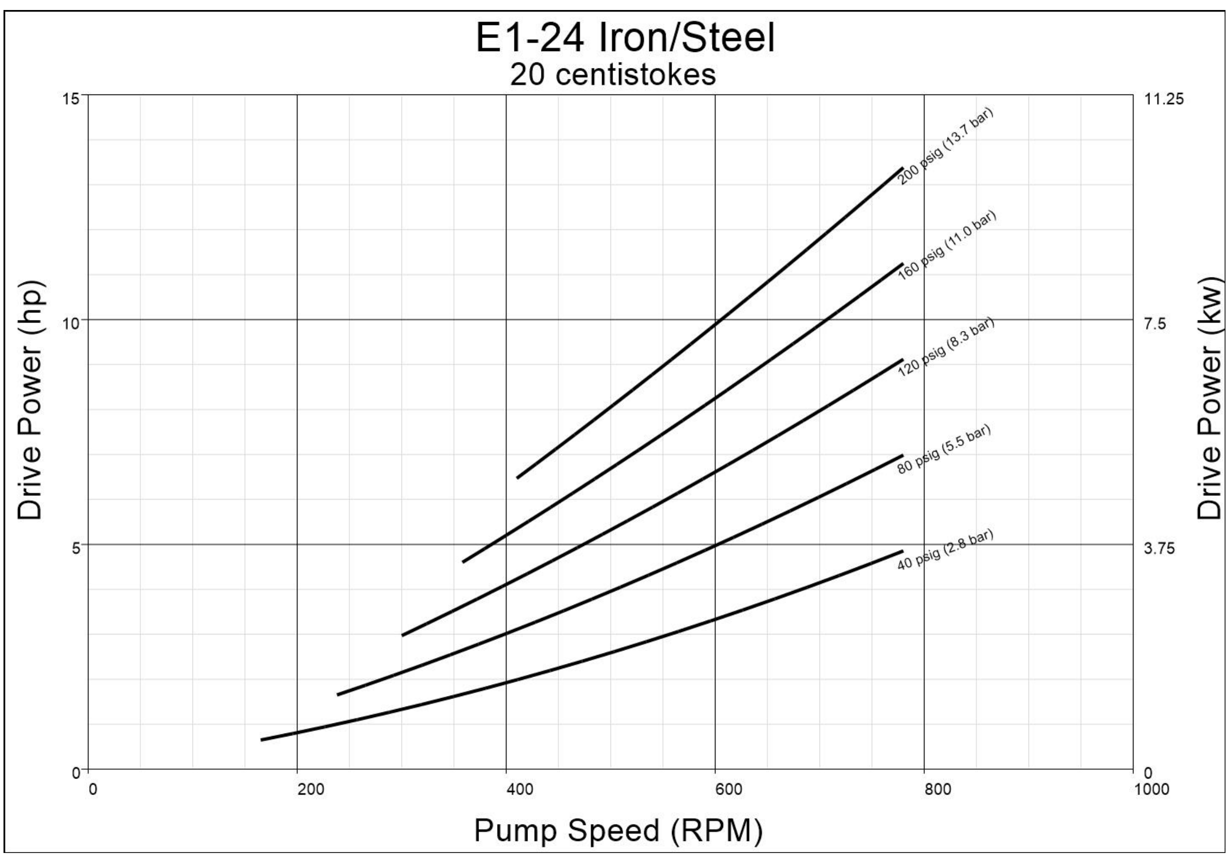
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20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
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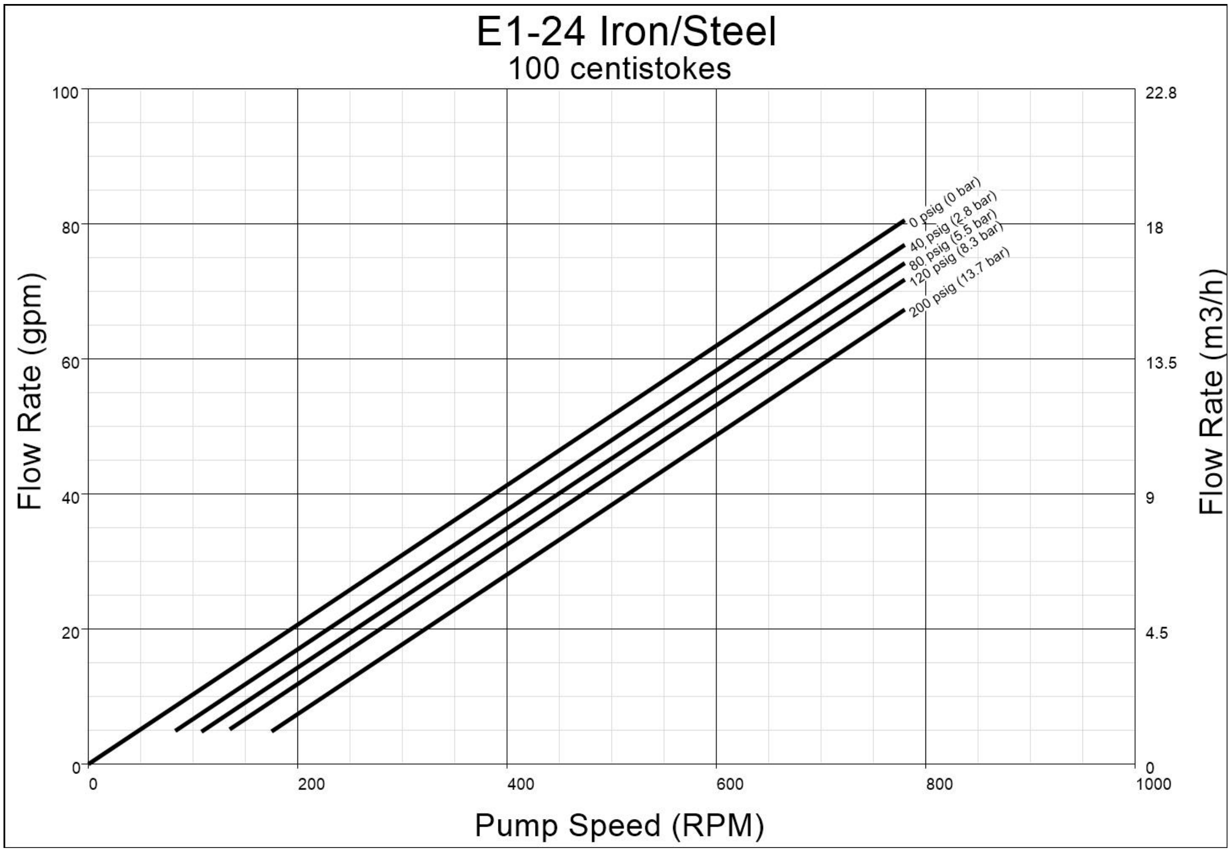
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100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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80 psig (5.5 bar)
120 psig (8.3 bar)
200 psig (13.7 bar)
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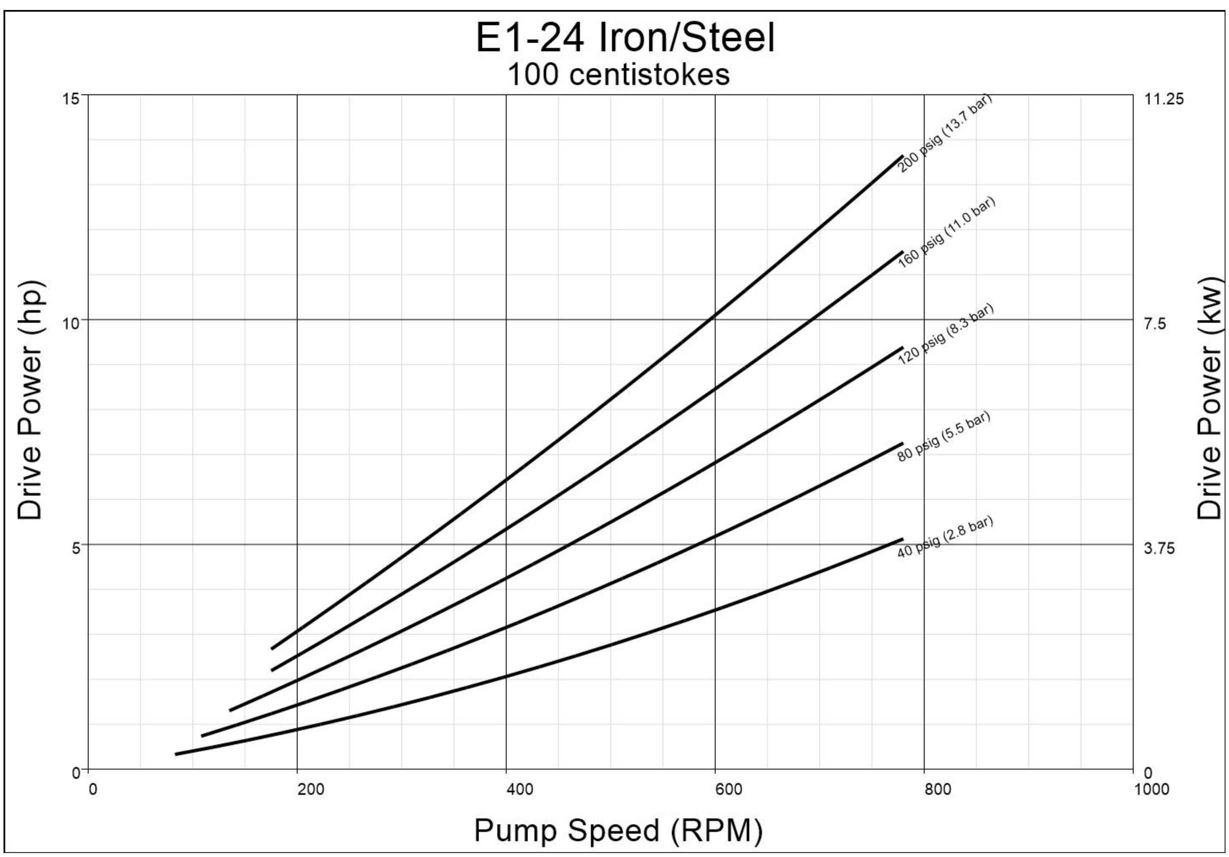
E1-24 Iron/Steel
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Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
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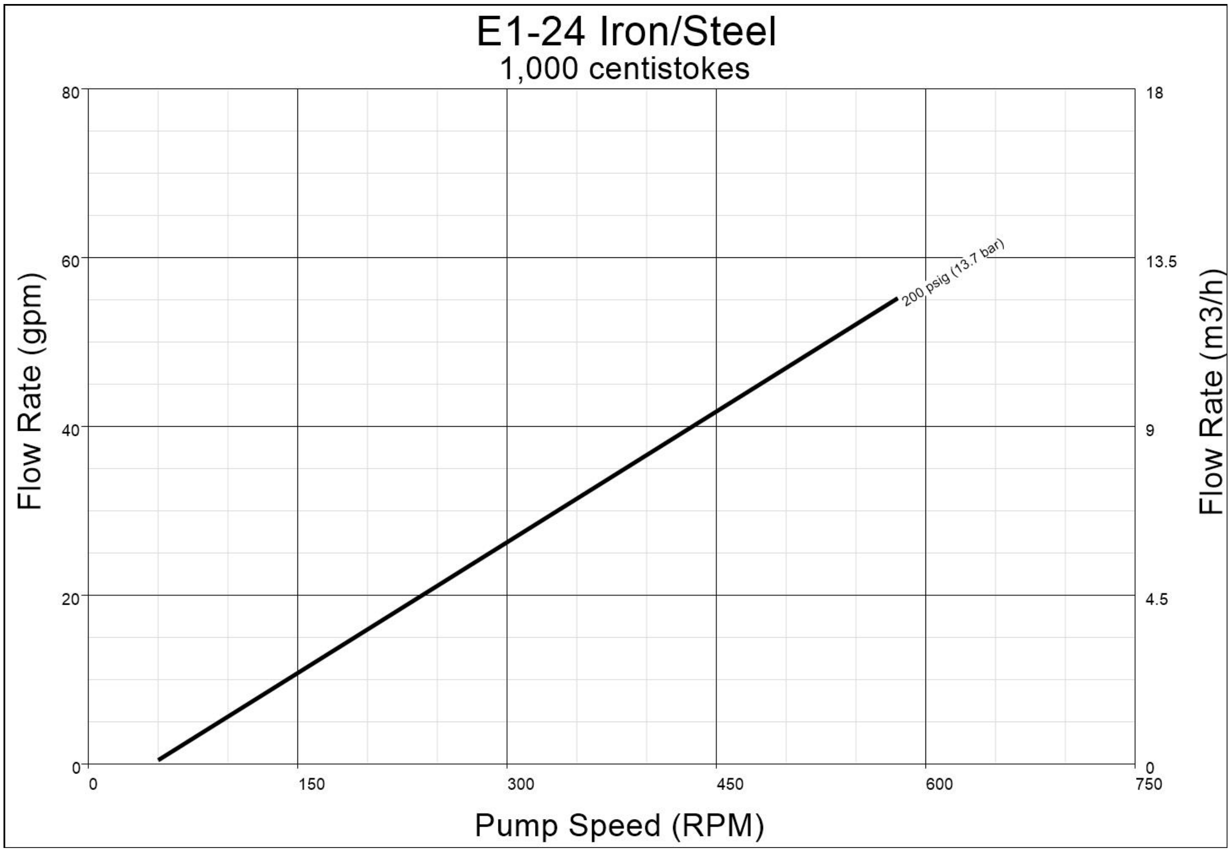
E1-24 Iron/Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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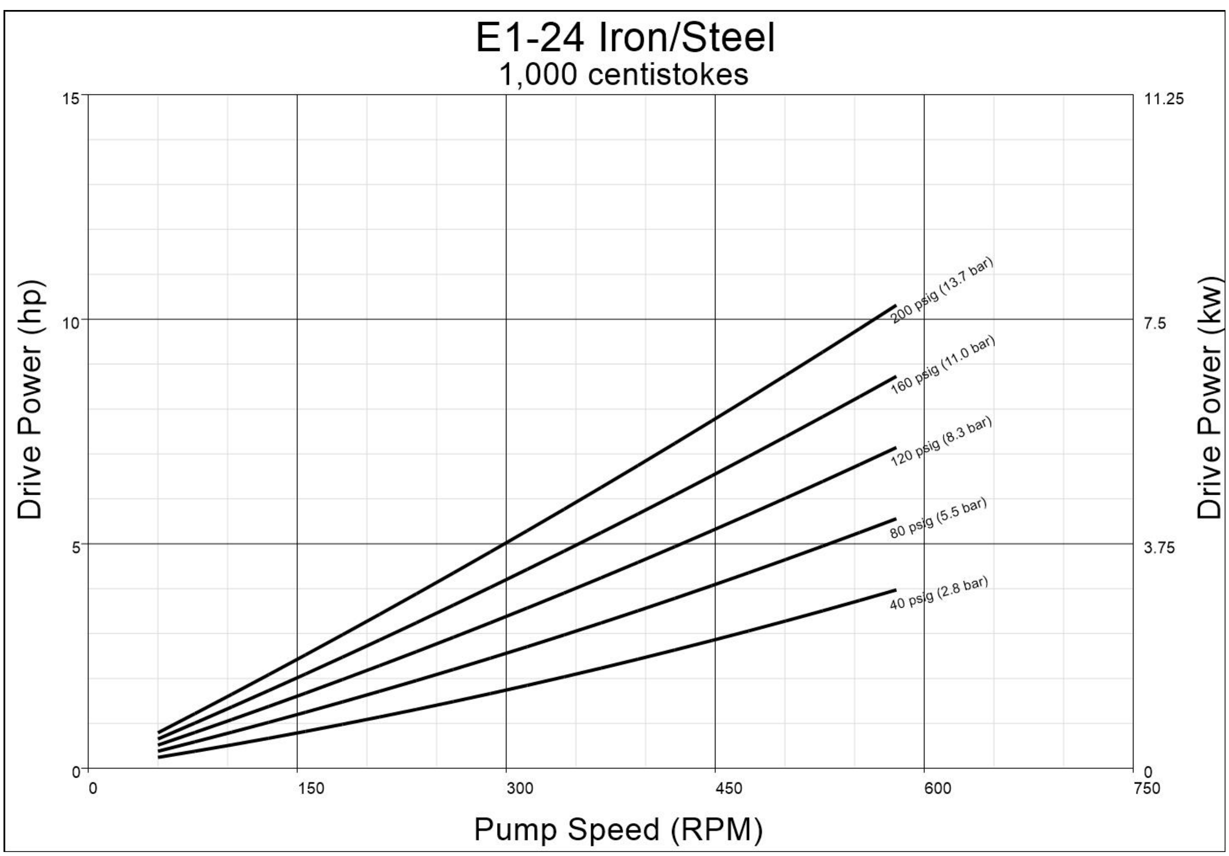
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1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
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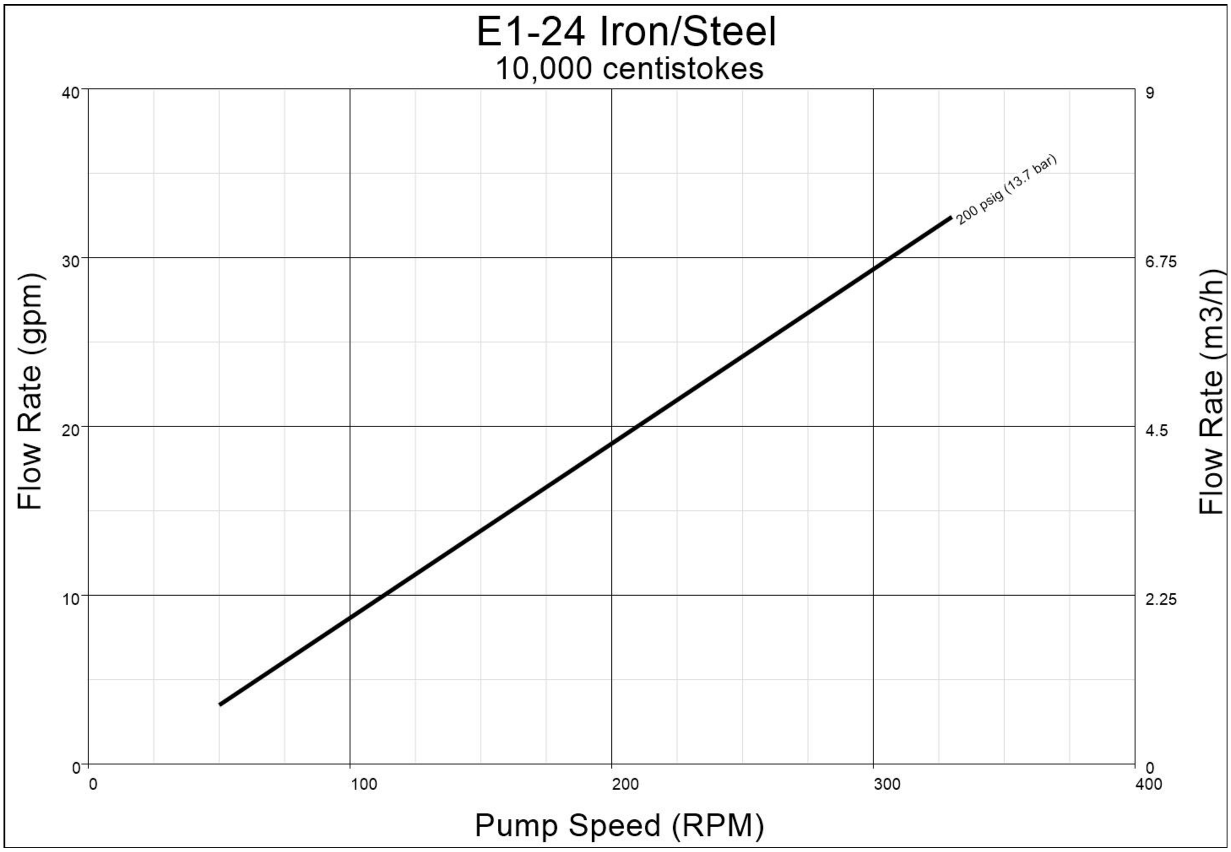
E1-24 Iron/Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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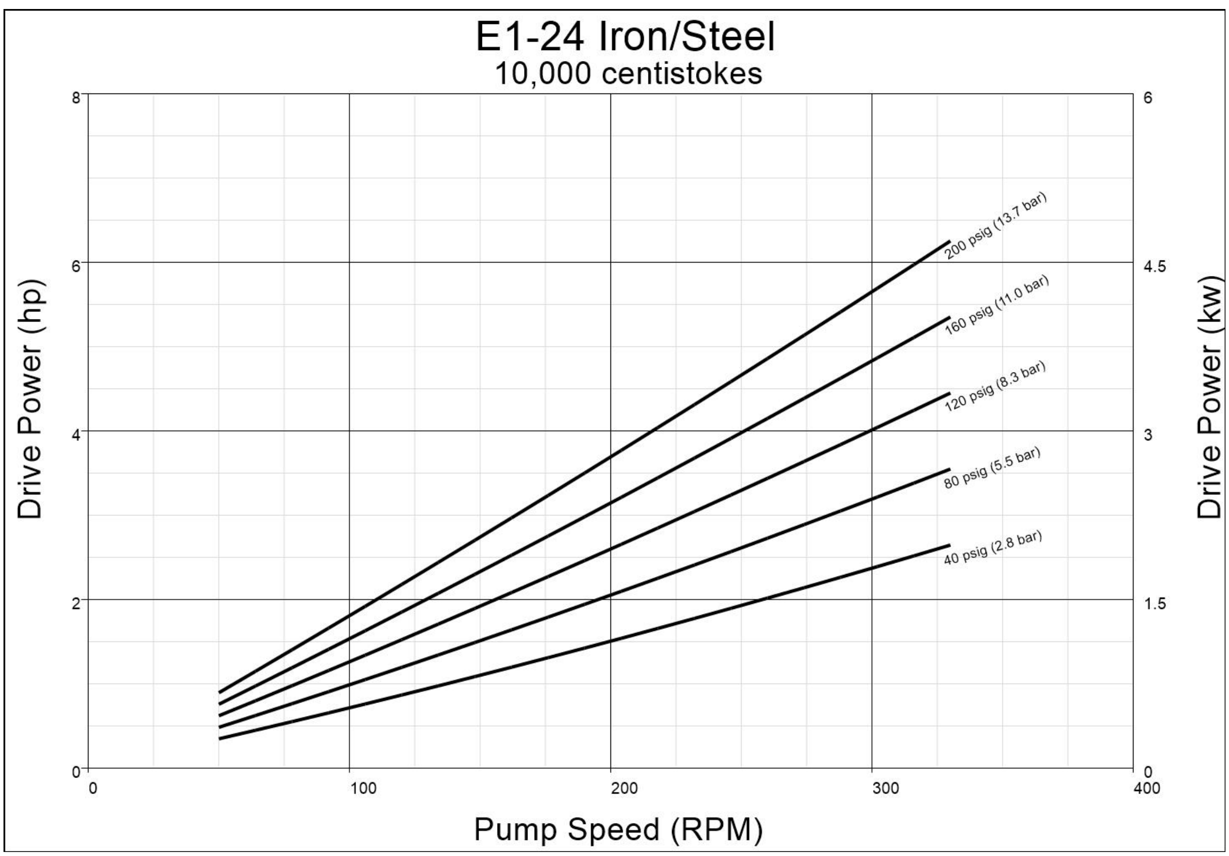
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10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
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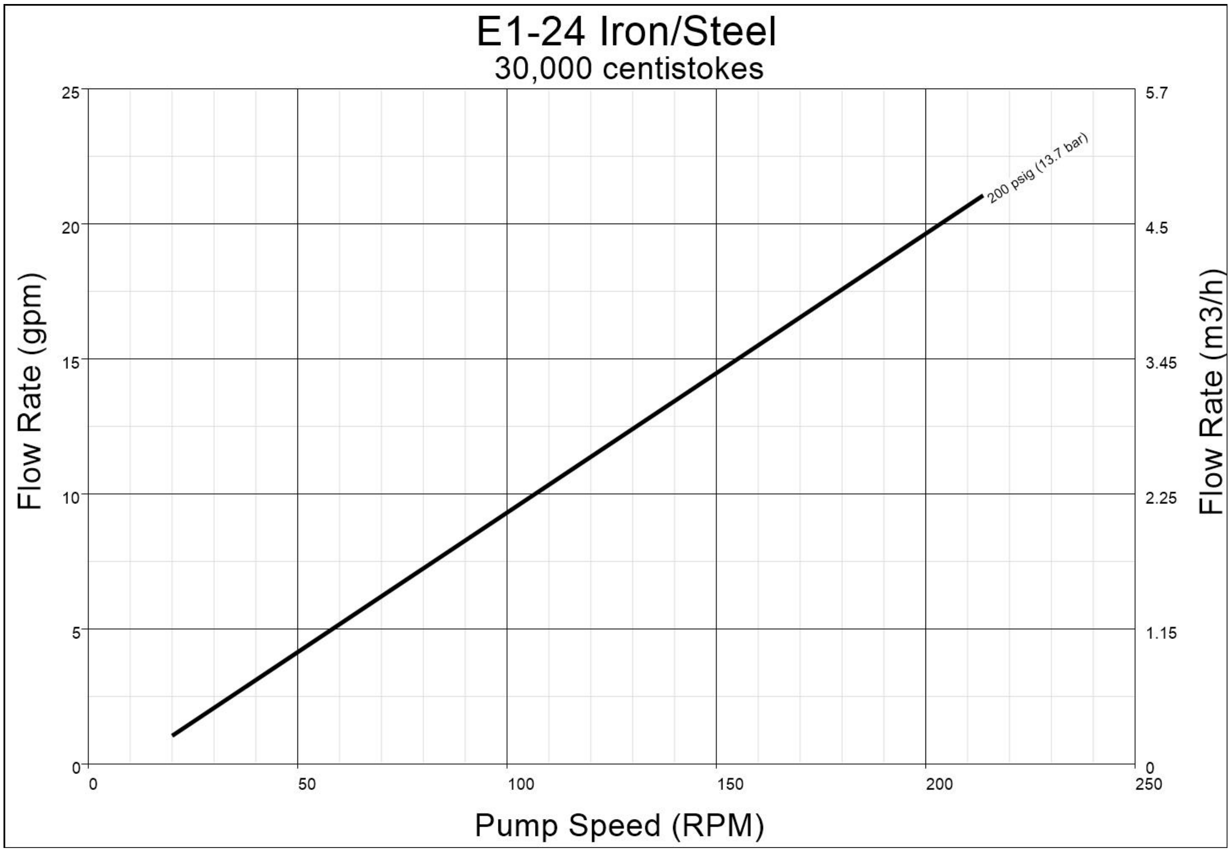
E1-24 Iron/Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
200 psig (13.7 bar)
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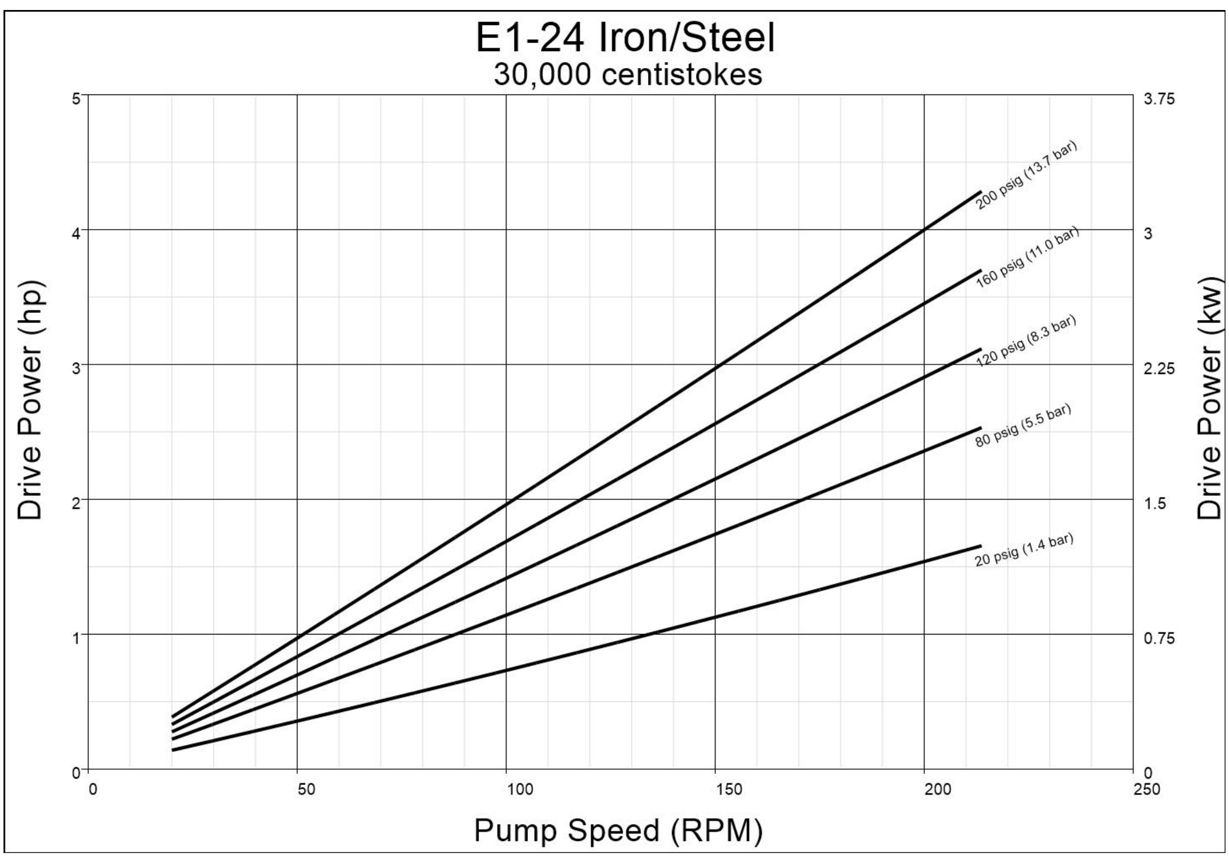
E1-24 Iron/Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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80 psig (5.5 bar)
20 psig (1.4 bar)
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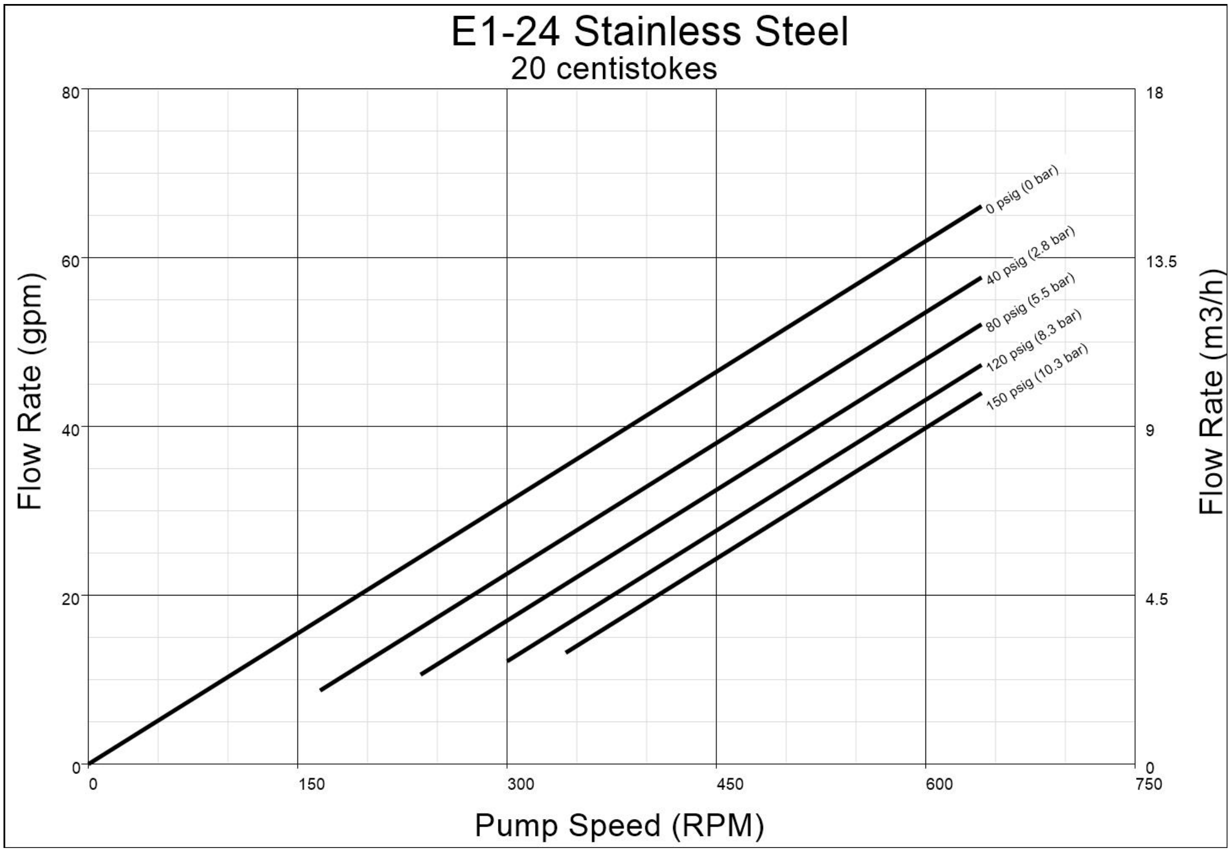
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20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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40 psig (2.8 bar)
80 psig (5.5 bar)
120 psig (8.3 bar)
150 psig (10.3 bar)
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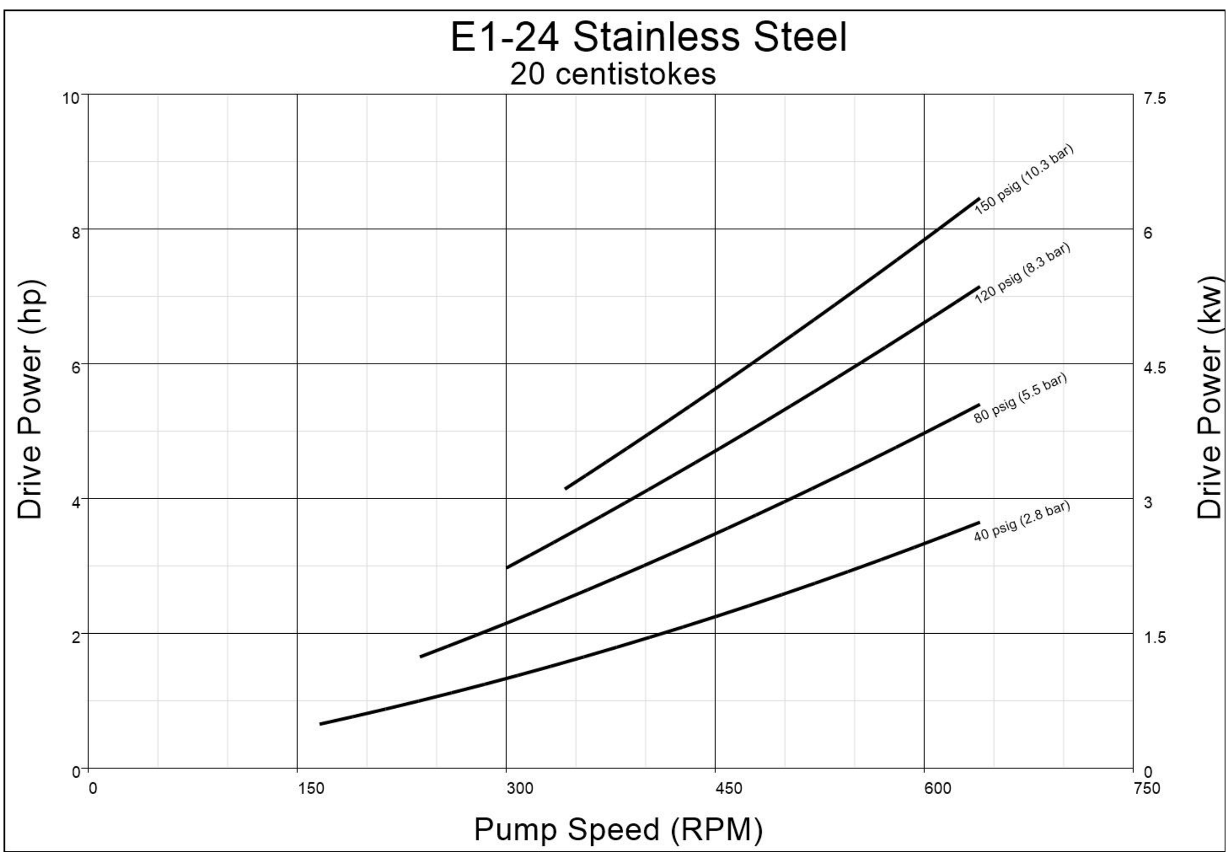
E1-24 Stainless Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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7.5
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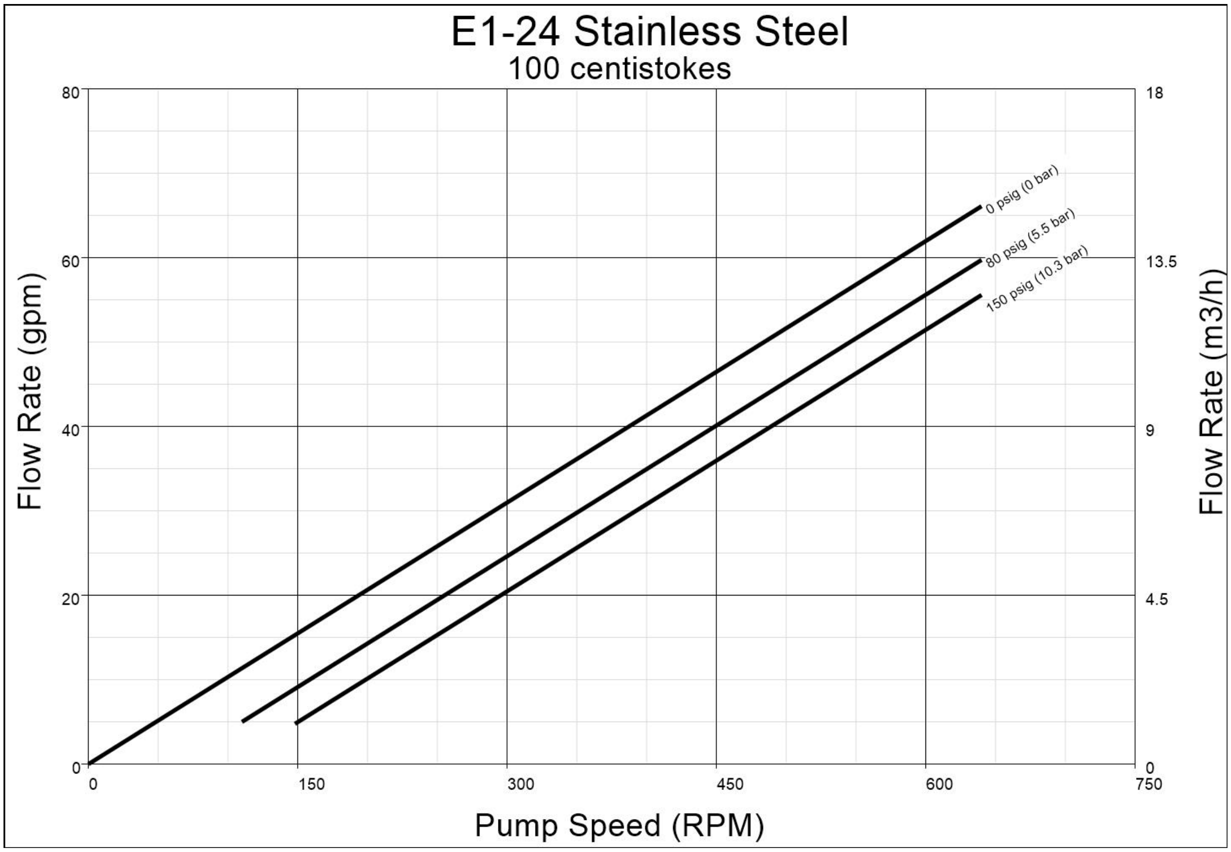
E1-24 Stainless Steel
100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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80 psig (5.5 bar)
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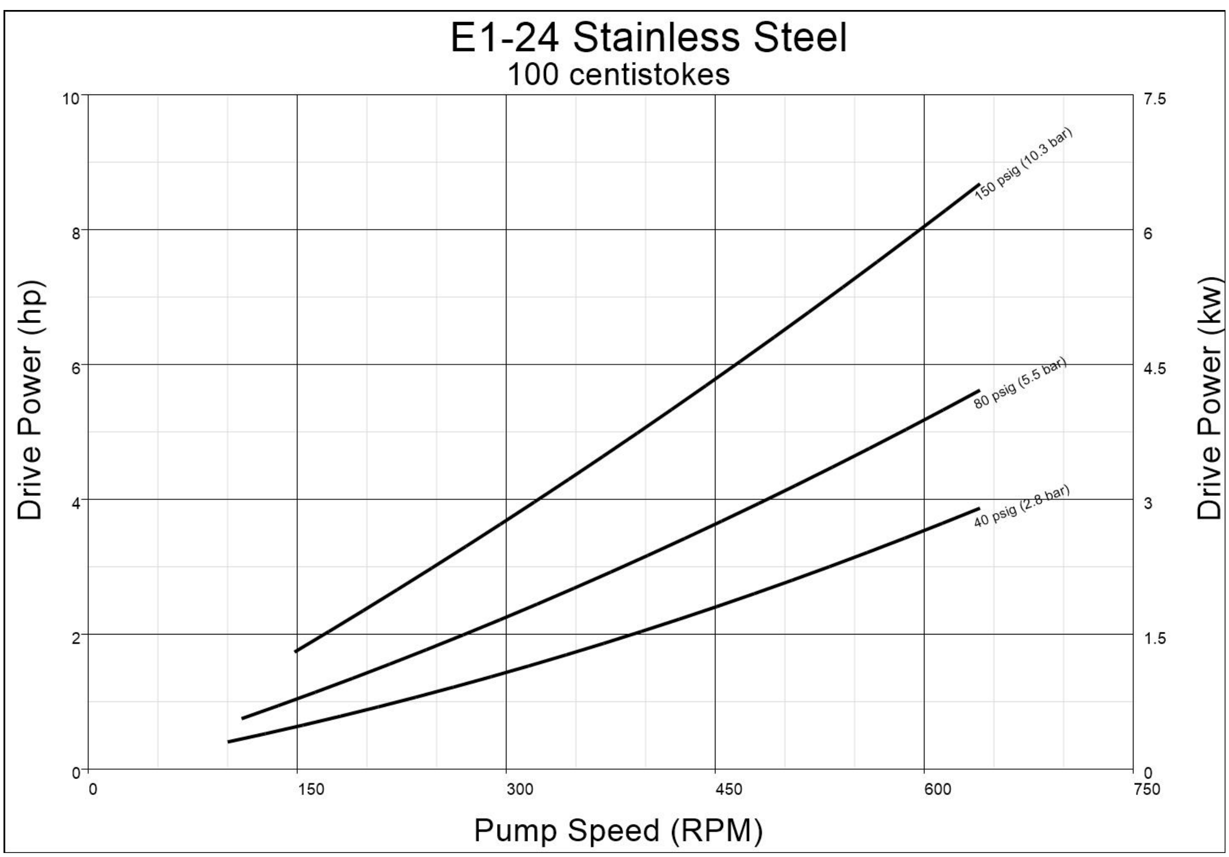
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100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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80 psig (5.5 bar)
40 psig (2.8 bar)
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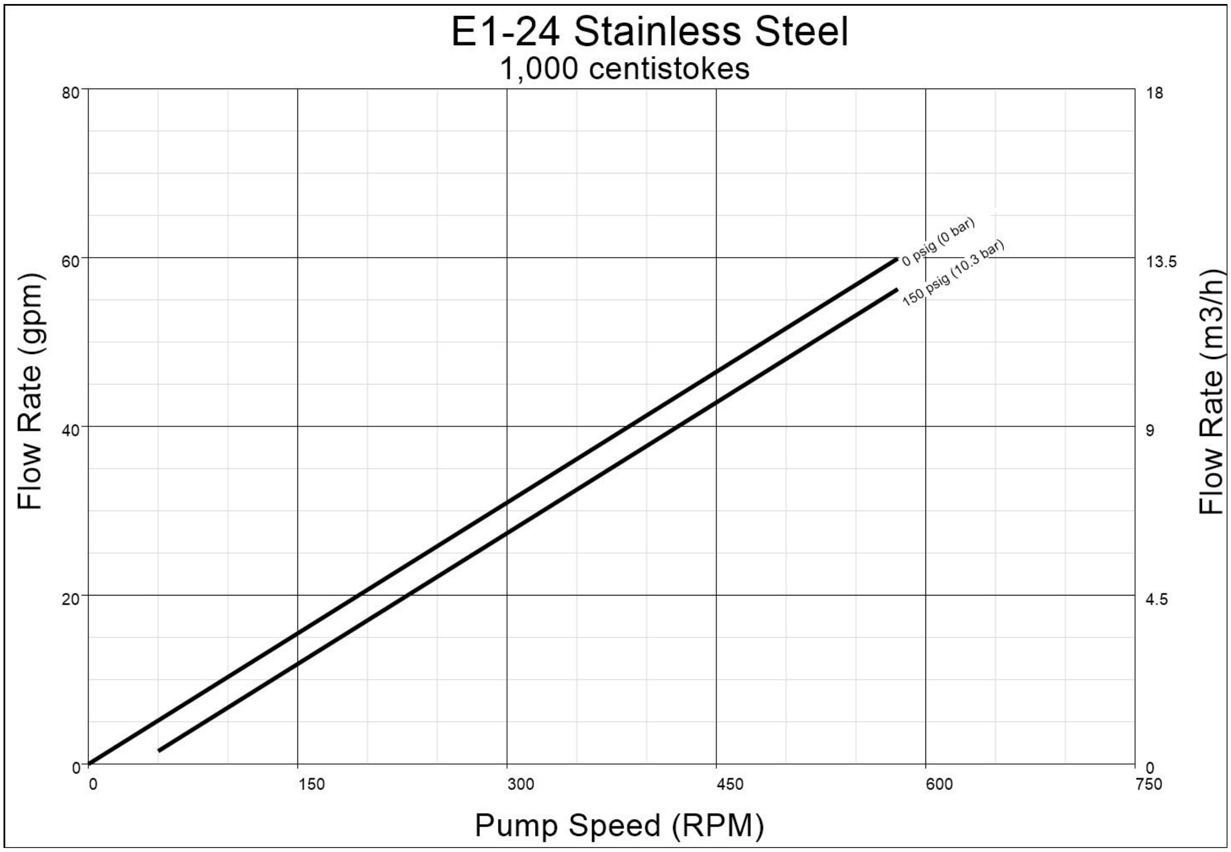
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1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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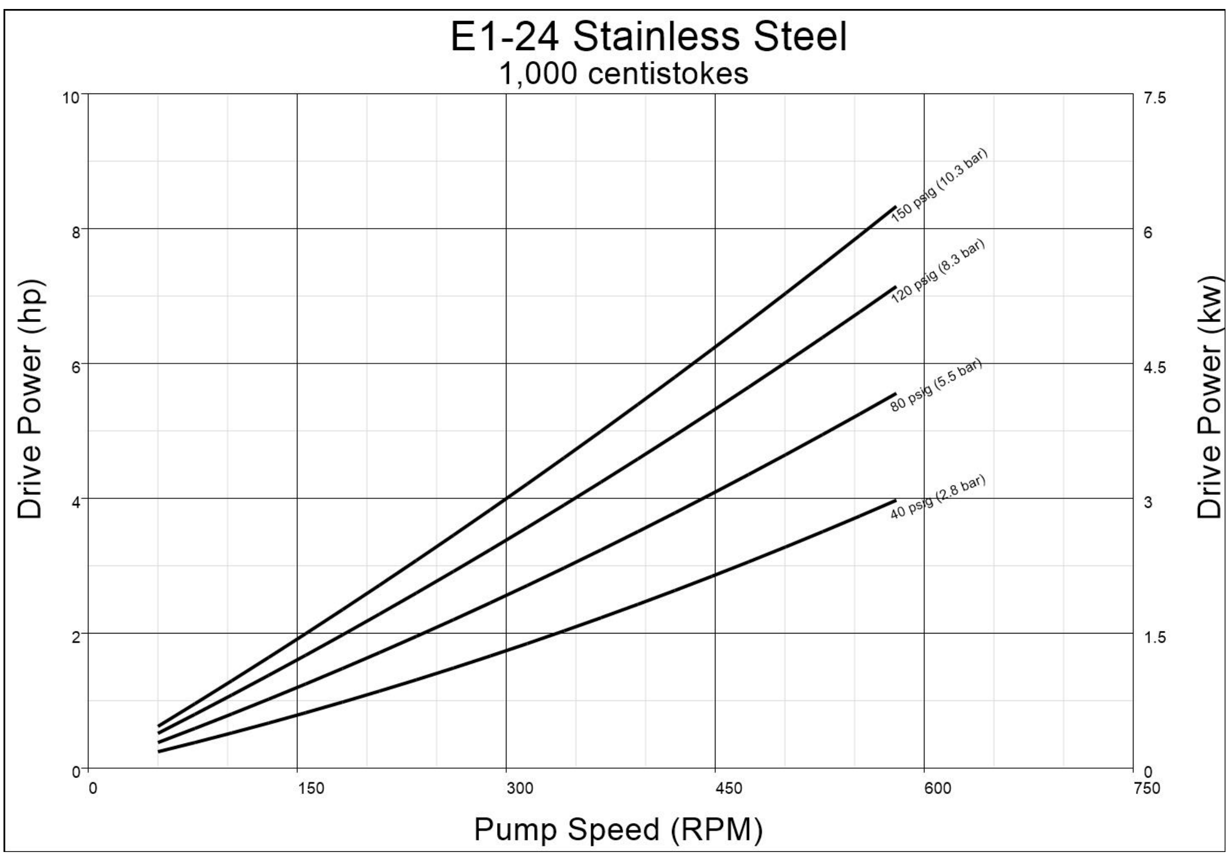
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Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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80 psig (5.5 bar)
40 psig (2.8 bar)
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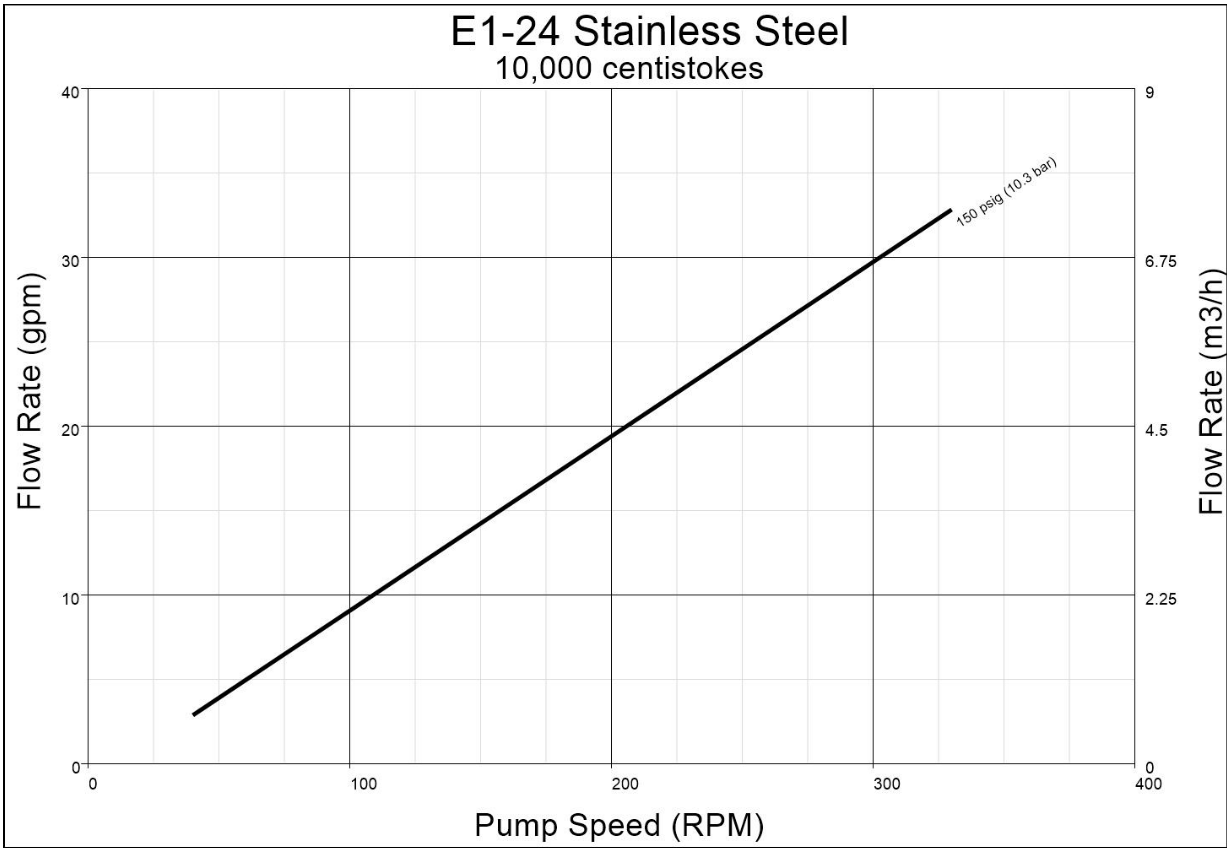
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10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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2.25
4.5
6.75
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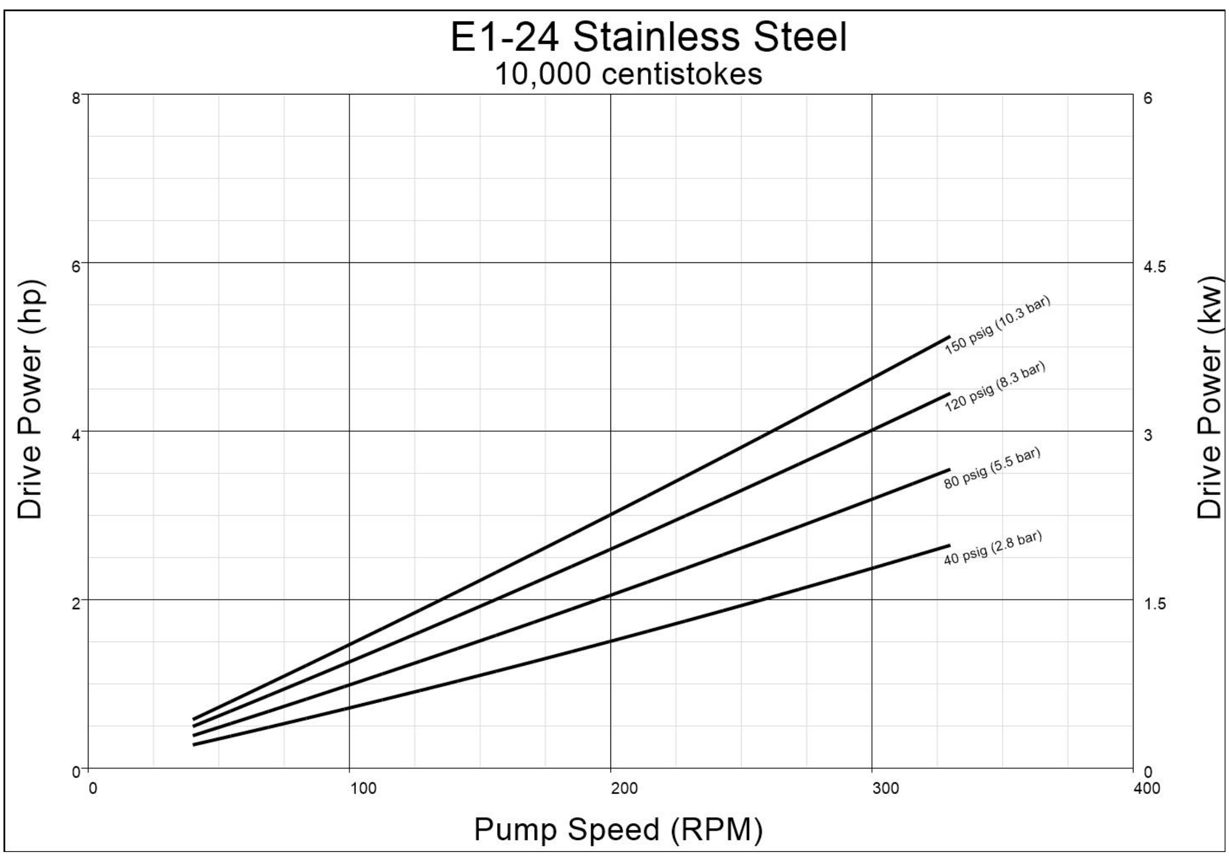
E1-24 Stainless Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
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4.5
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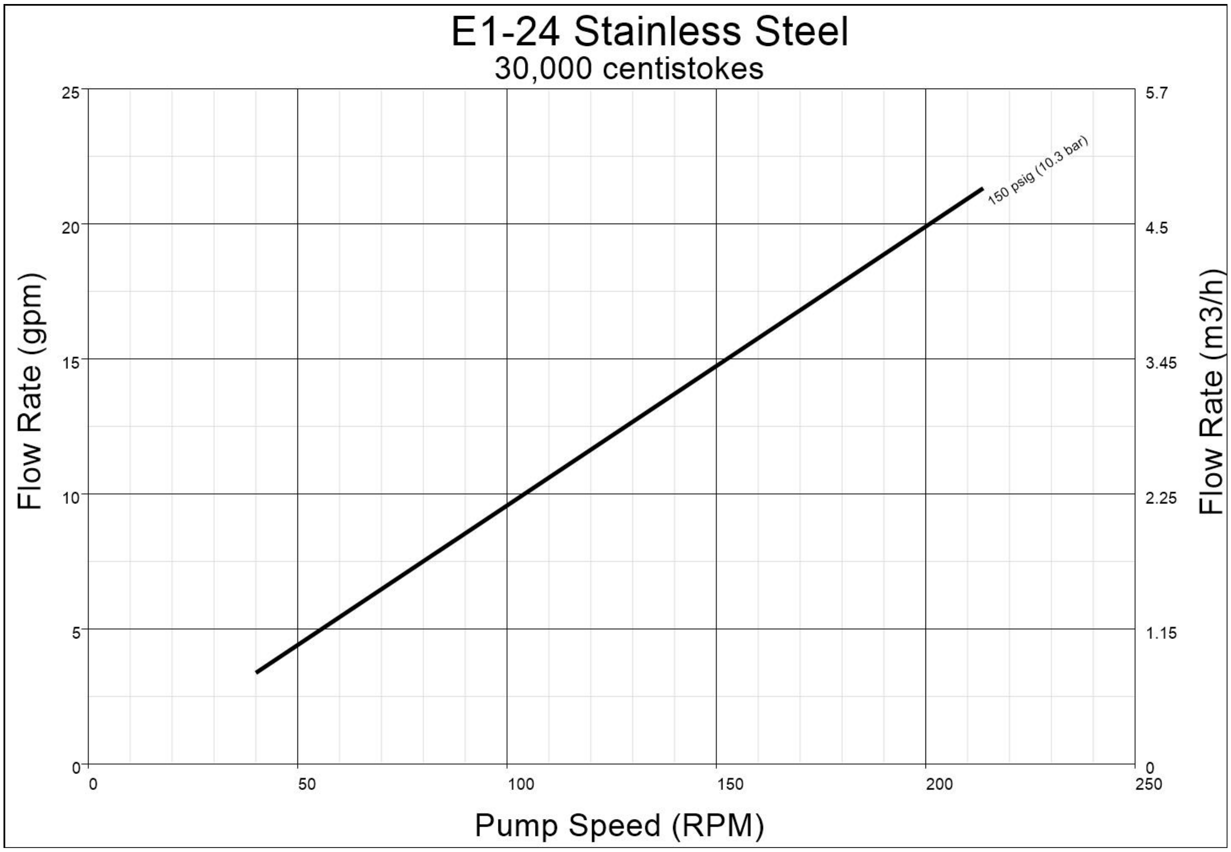
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30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
150 psig (10.3 bar)
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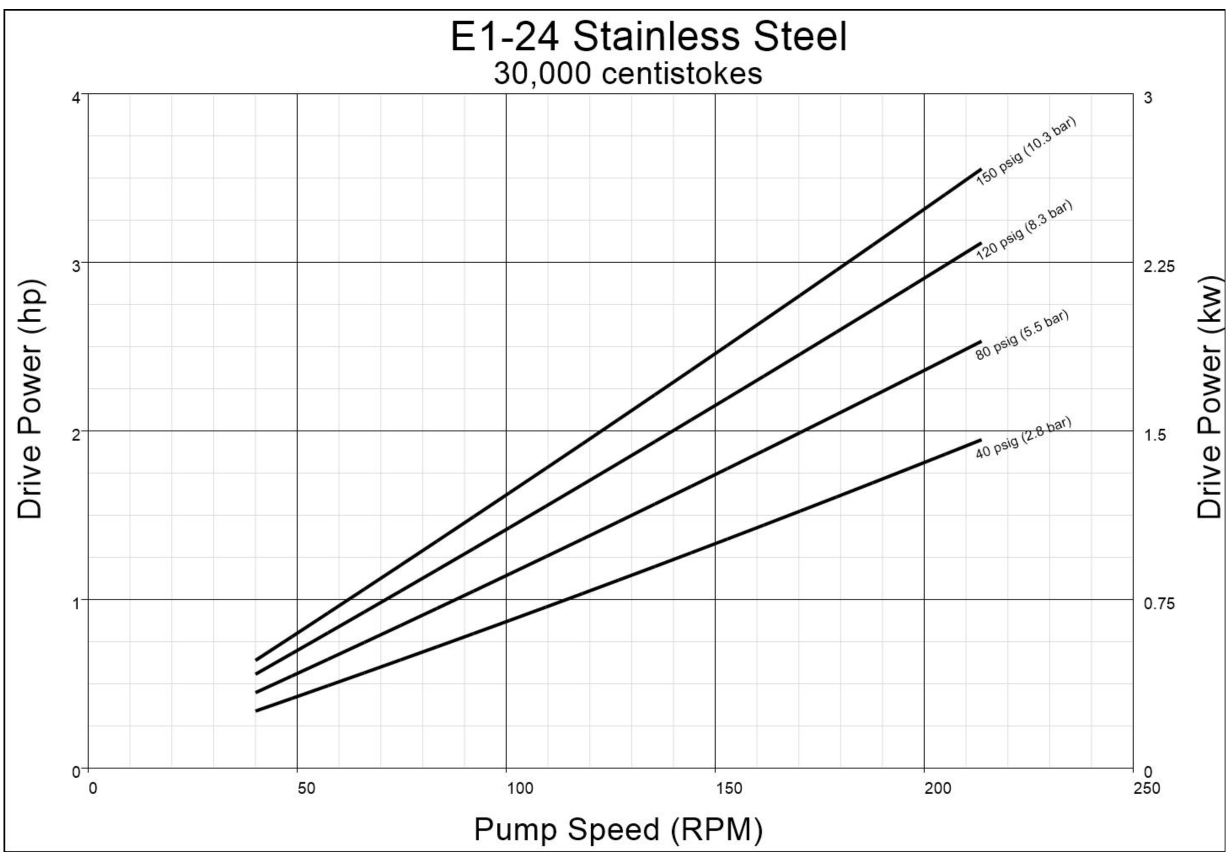
2.25
3.45
4.5
5.7
50
100
150
200
250


E1-24 Stainless Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
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3
4
0.75
1.5
2.25
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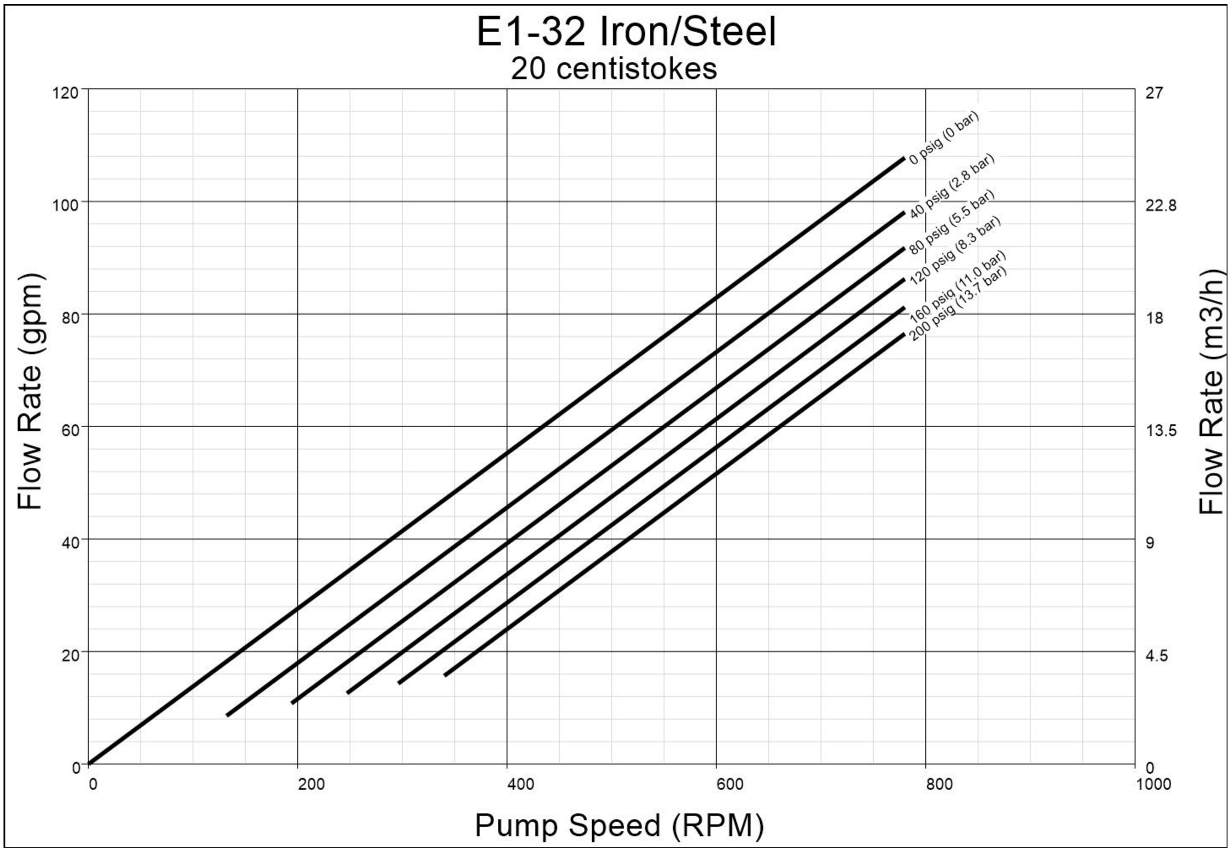
E1-32 Iron/Steel
20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
120 psig (8.3 bar)
160 psig (11.0 bar)
200 psig (13.7 bar)
120
100
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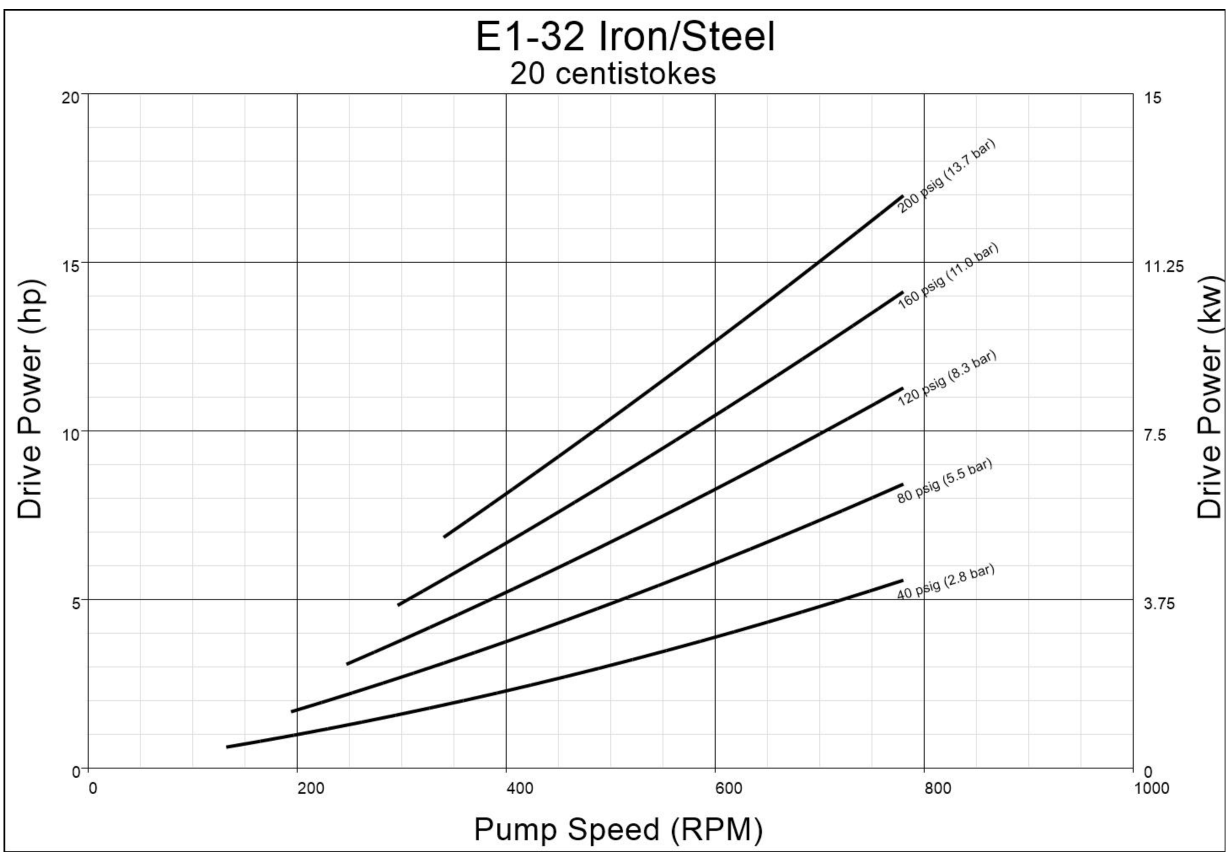
E1-32 Iron/Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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7.5
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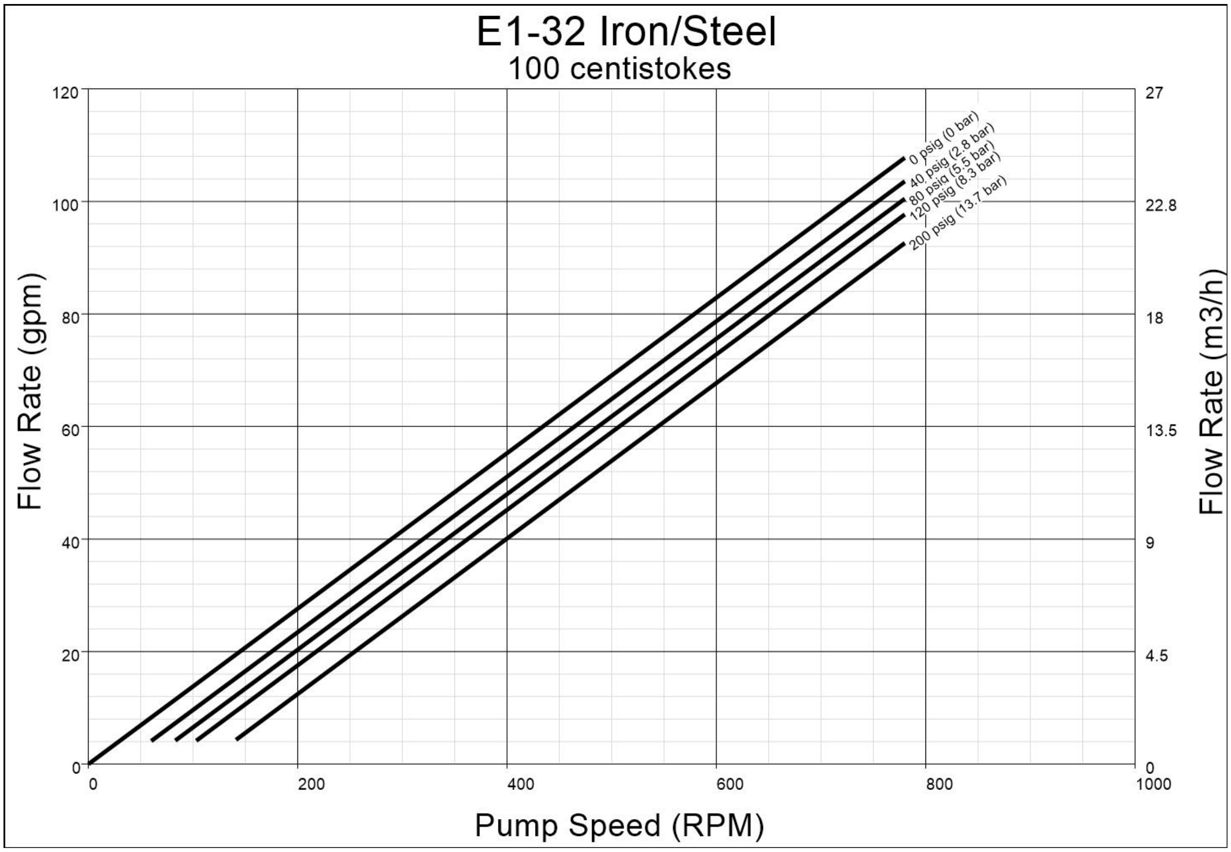
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Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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40 psig (2.8 bar)
80 psig (5.5 bar)
120 psig (8.3 bar)
200 psig (13.7 bar)
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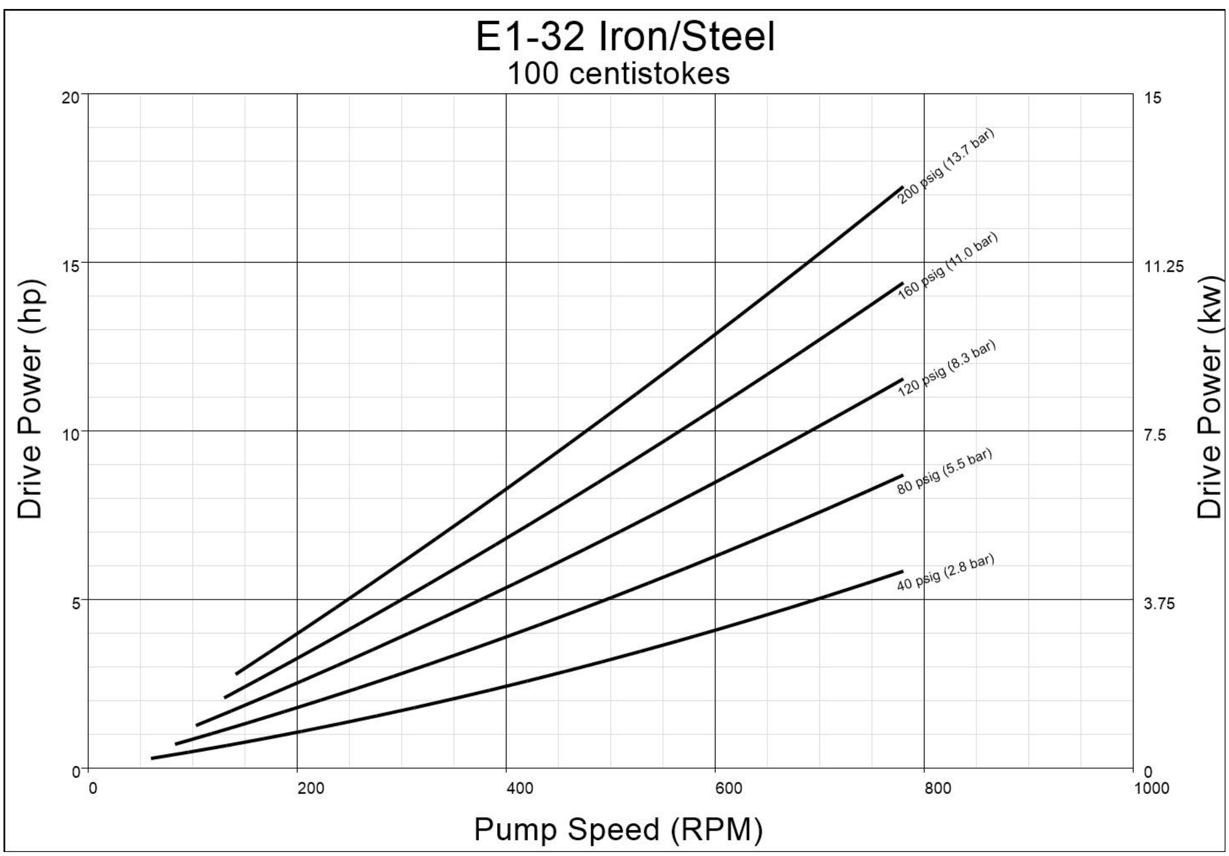
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Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
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15
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3.75
7.5
11.25
200
400
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800
1000


E1-32 Iron/Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
200 psig (13.7 bar)
0
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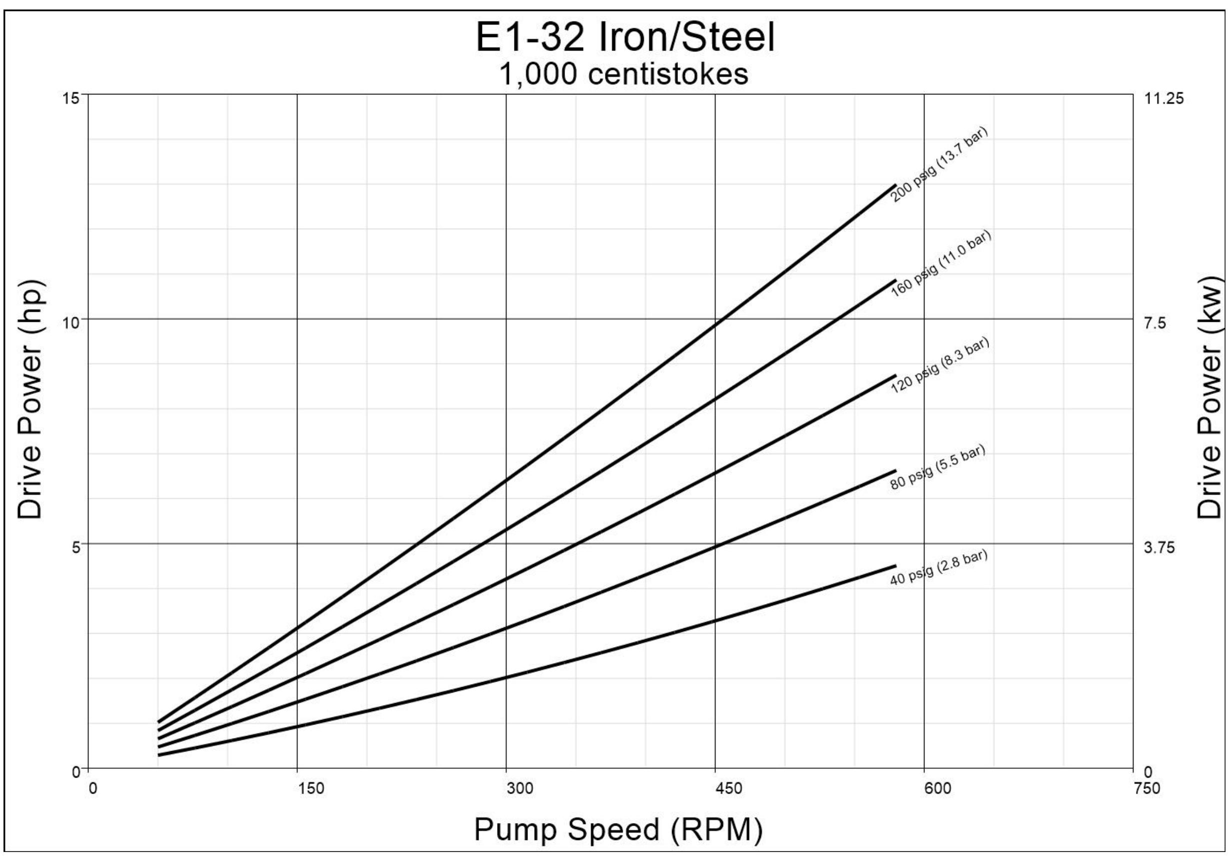
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Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
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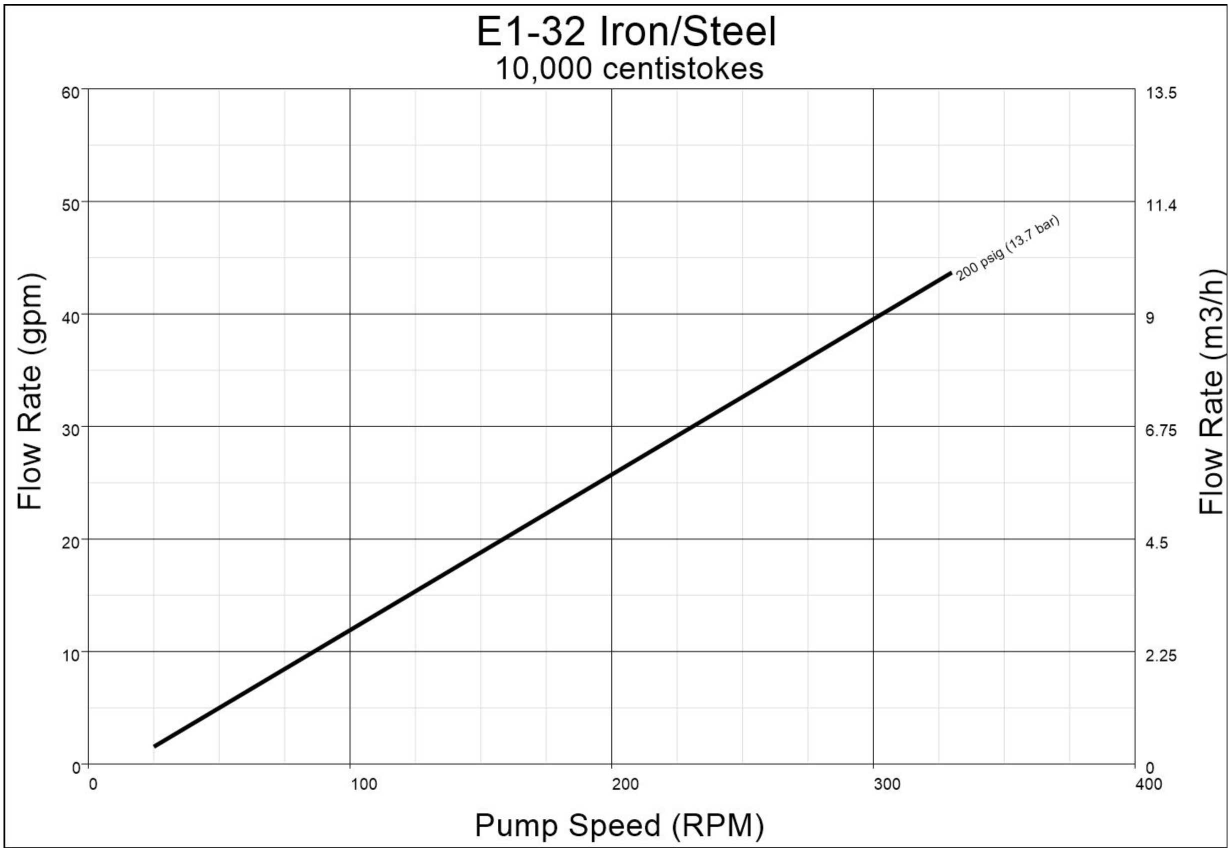
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Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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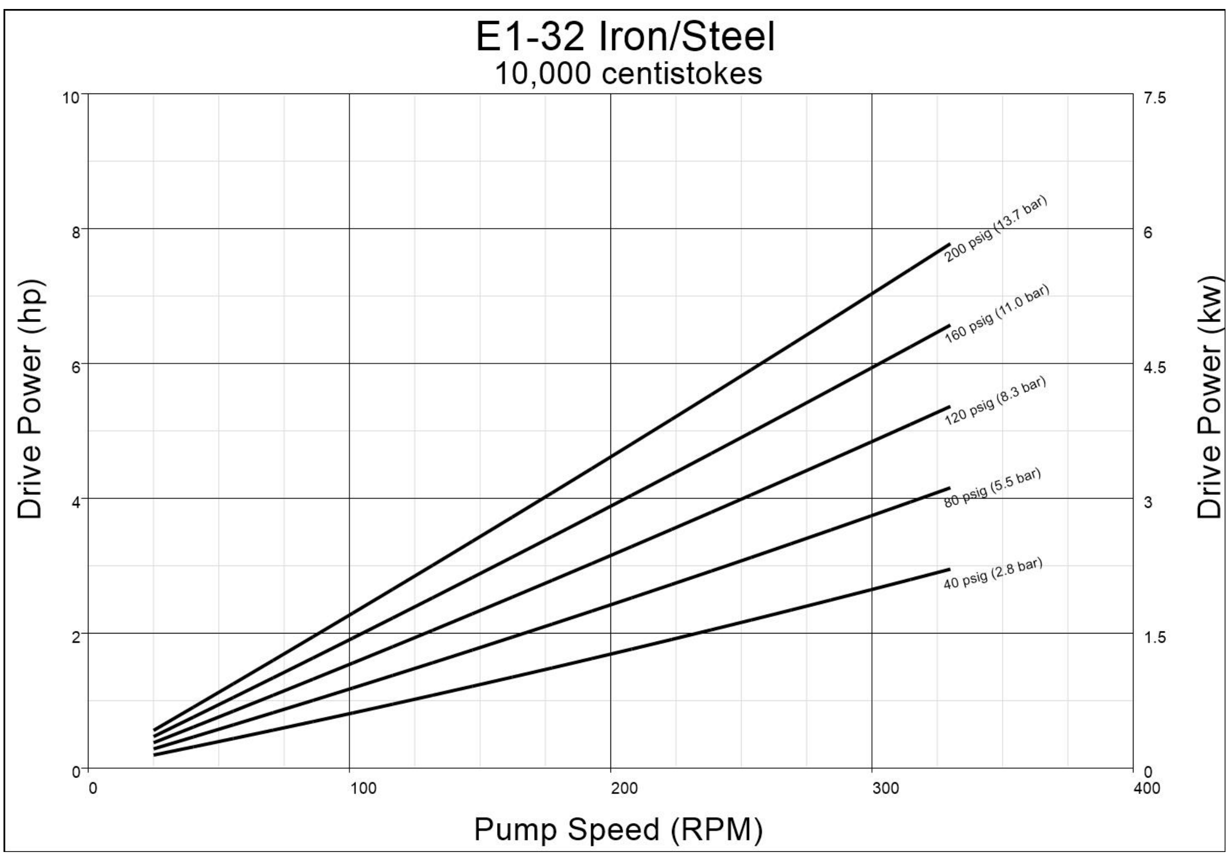
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Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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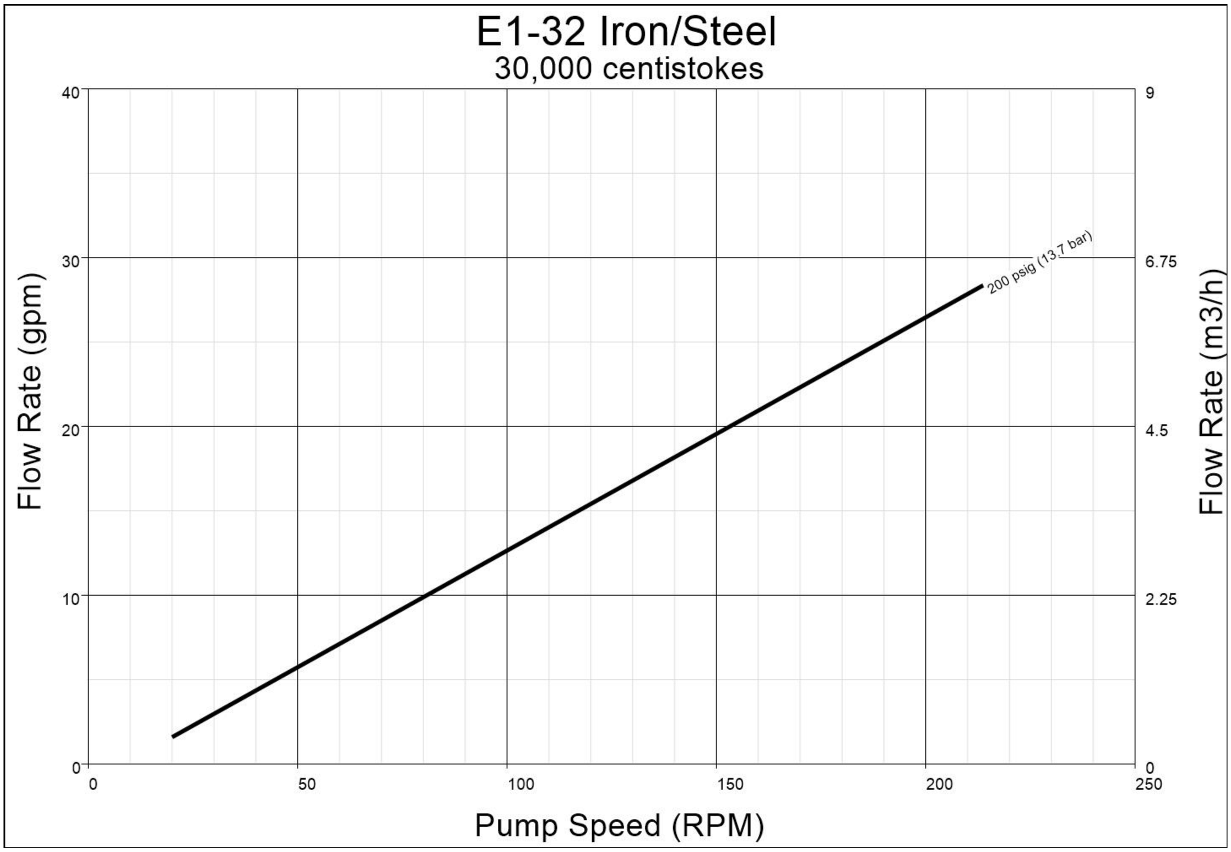
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Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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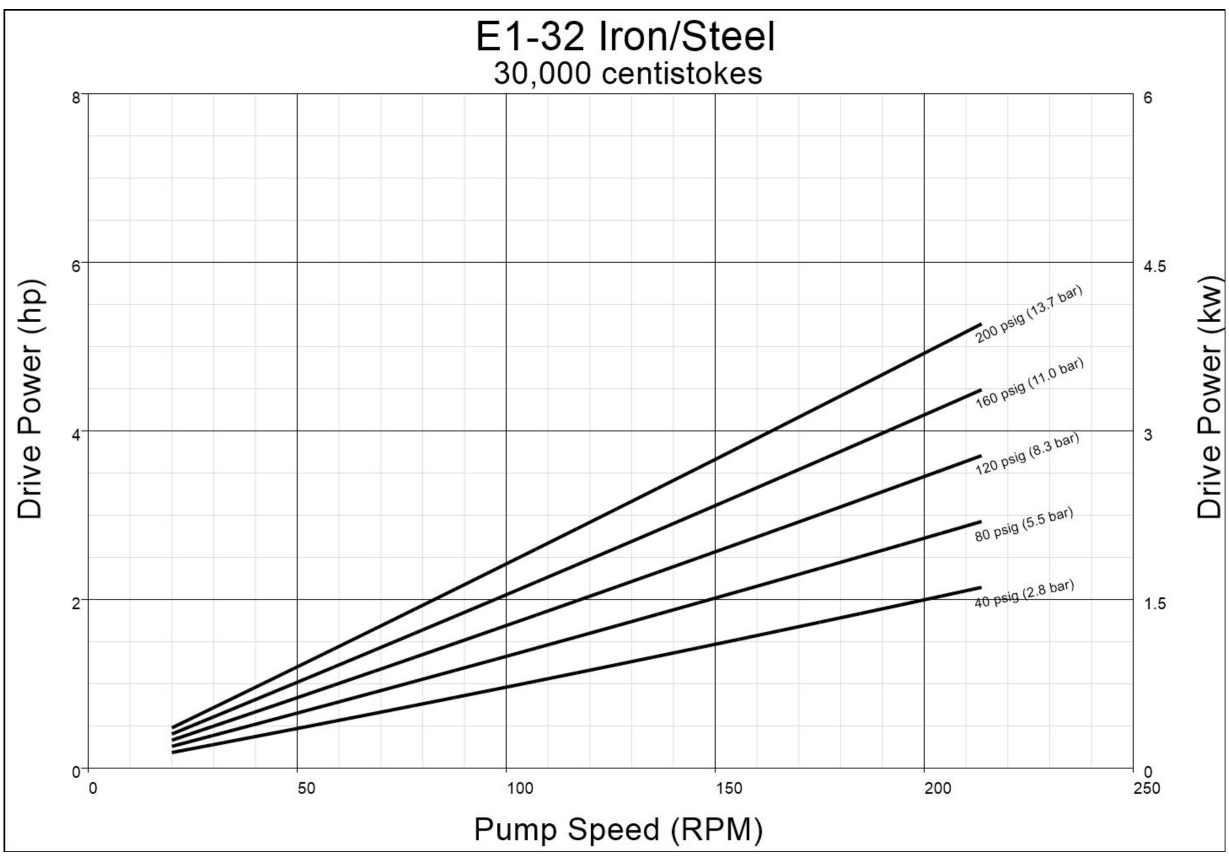
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30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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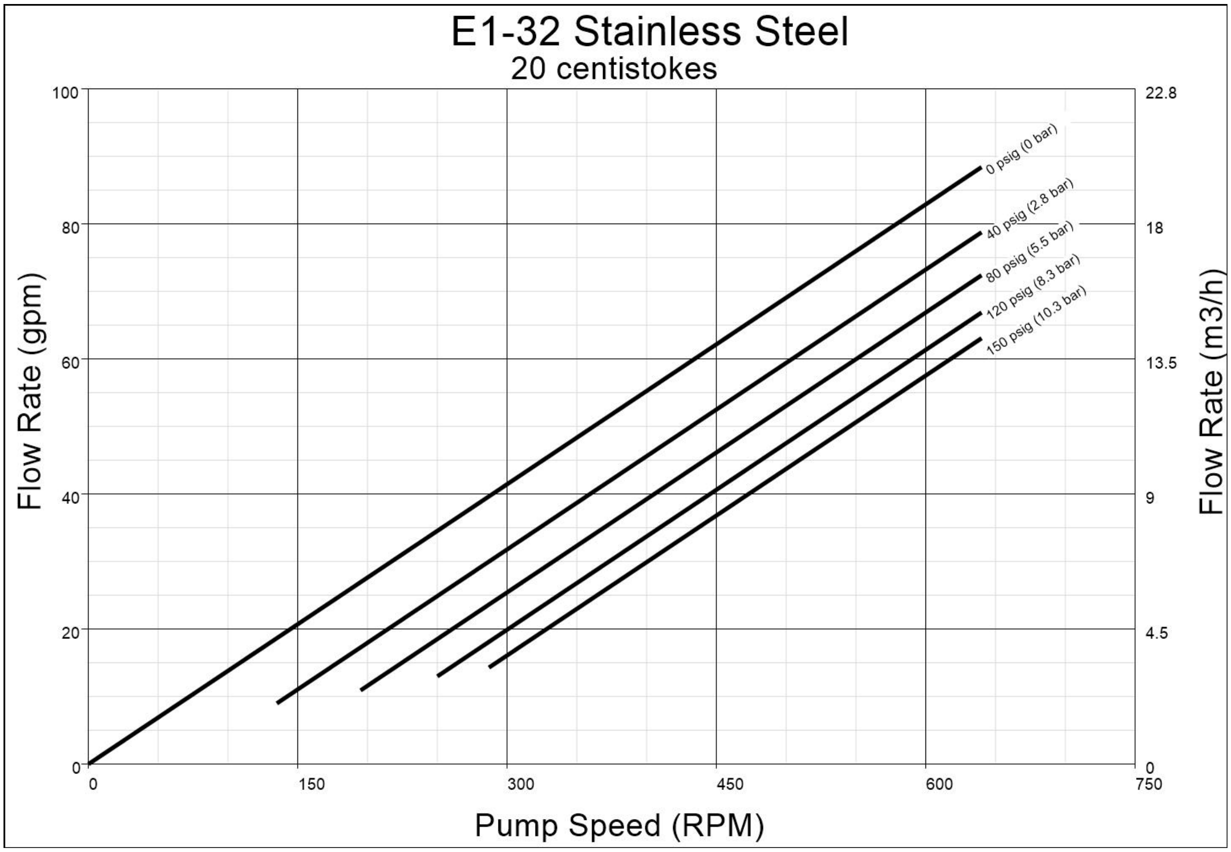
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Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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80 psig (5.5 bar)
120 psig (8.3 bar)
150 psig (10.3 bar)
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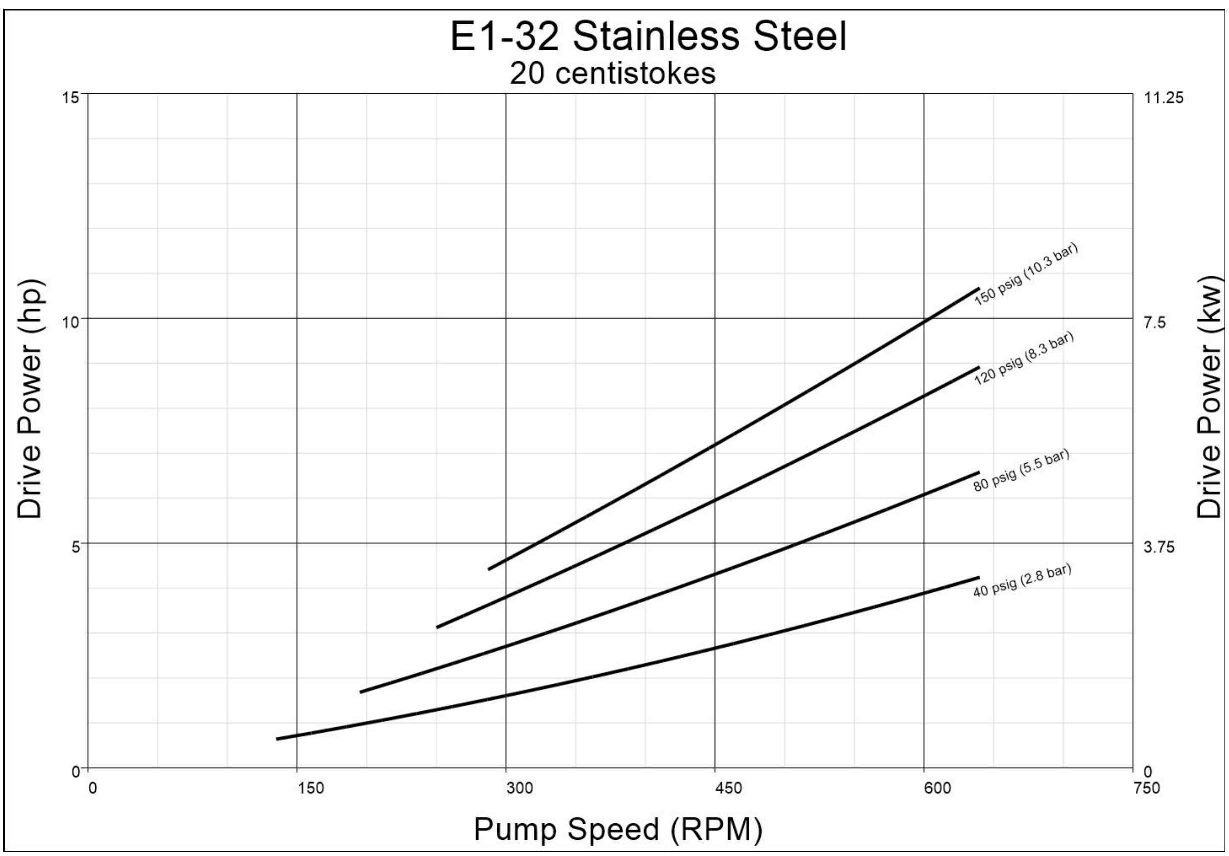
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Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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80 psig (5.5 bar)
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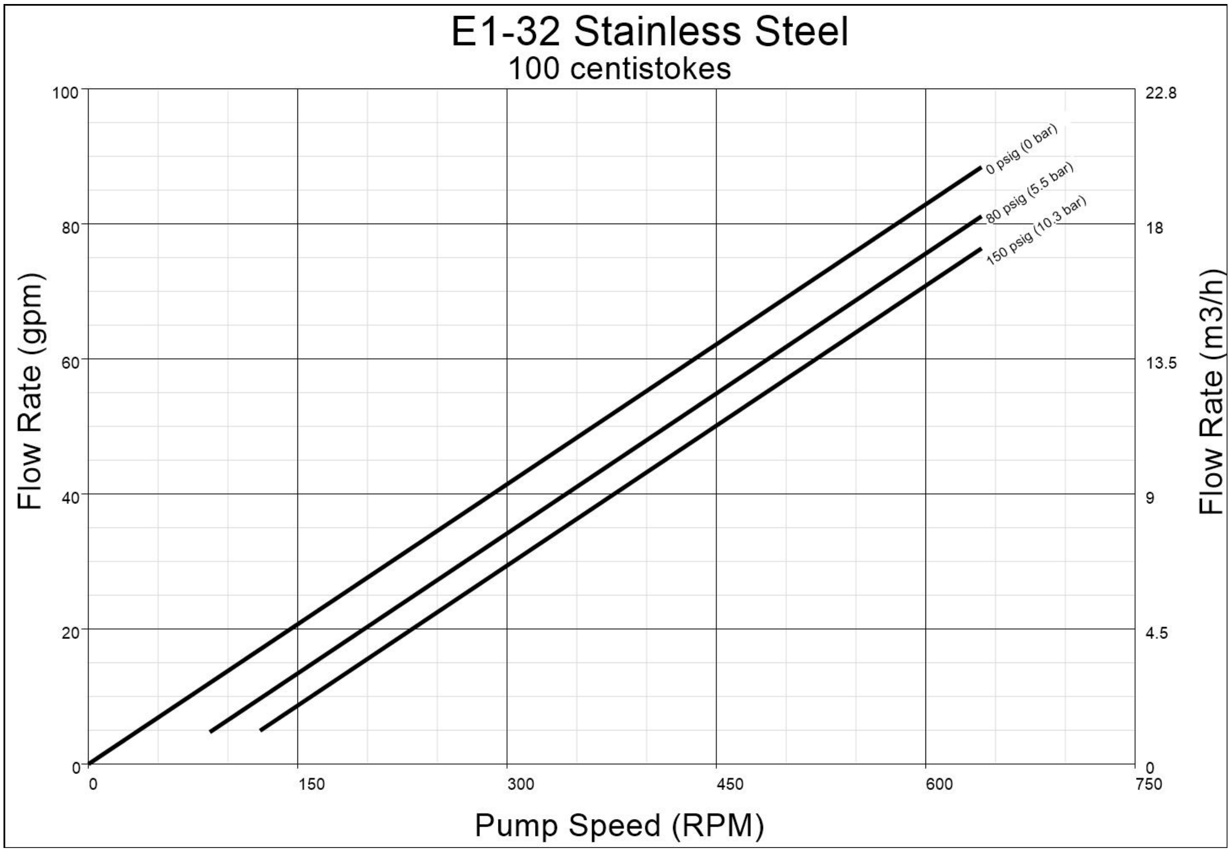
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100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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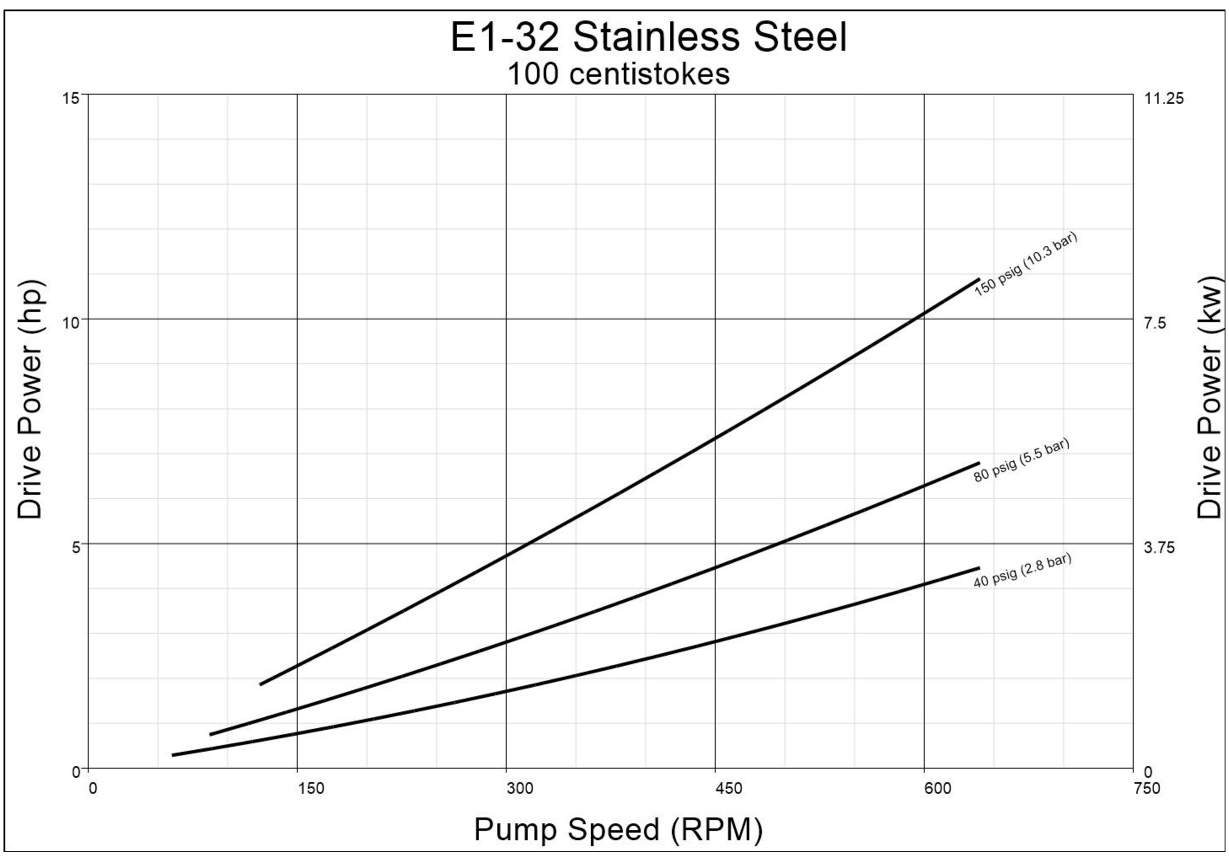
22.8
0 psig (0 bar)
80 psig (5.5 bar)
150 psig (10.3 bar)


E1-32 Stainless Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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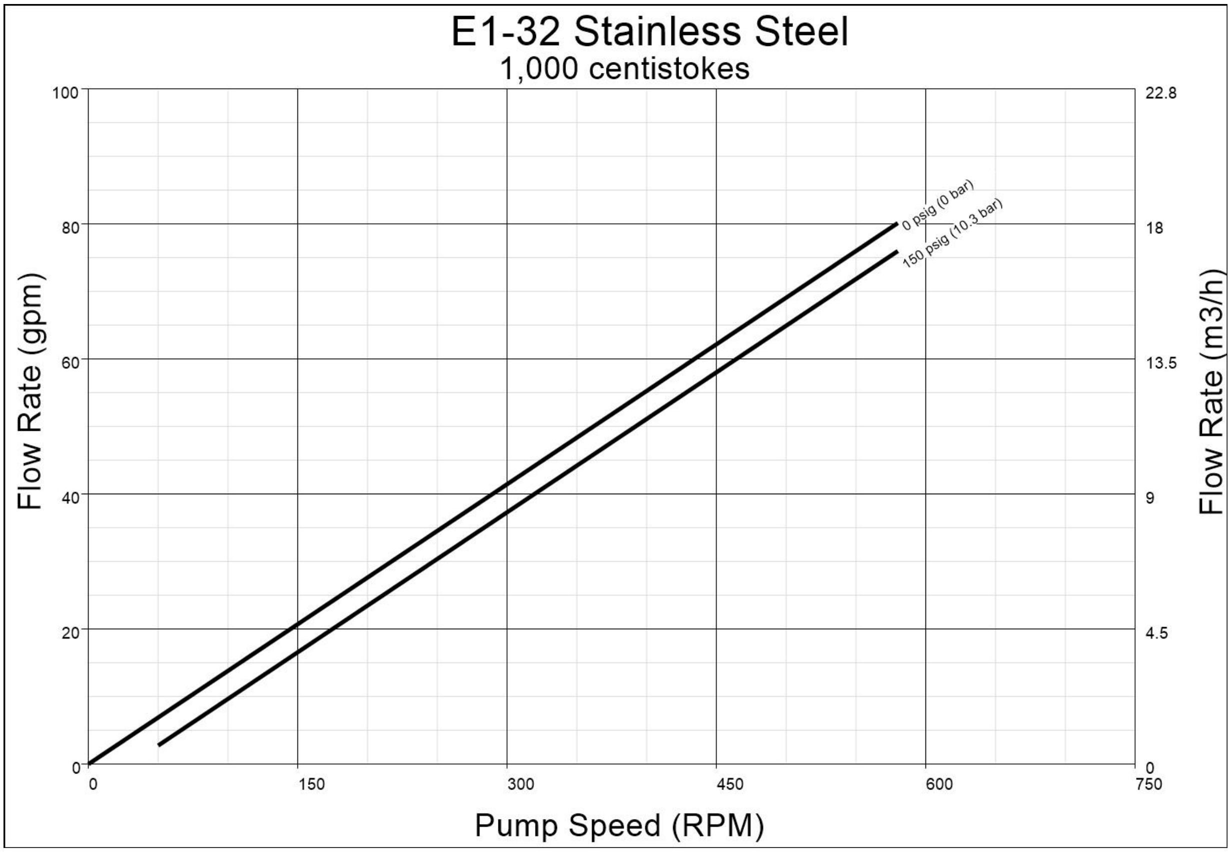
11.25
150 psig (10.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)


E1-32 Stainless Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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150 psig (10.3 bar)
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4.5
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13.5
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22.8
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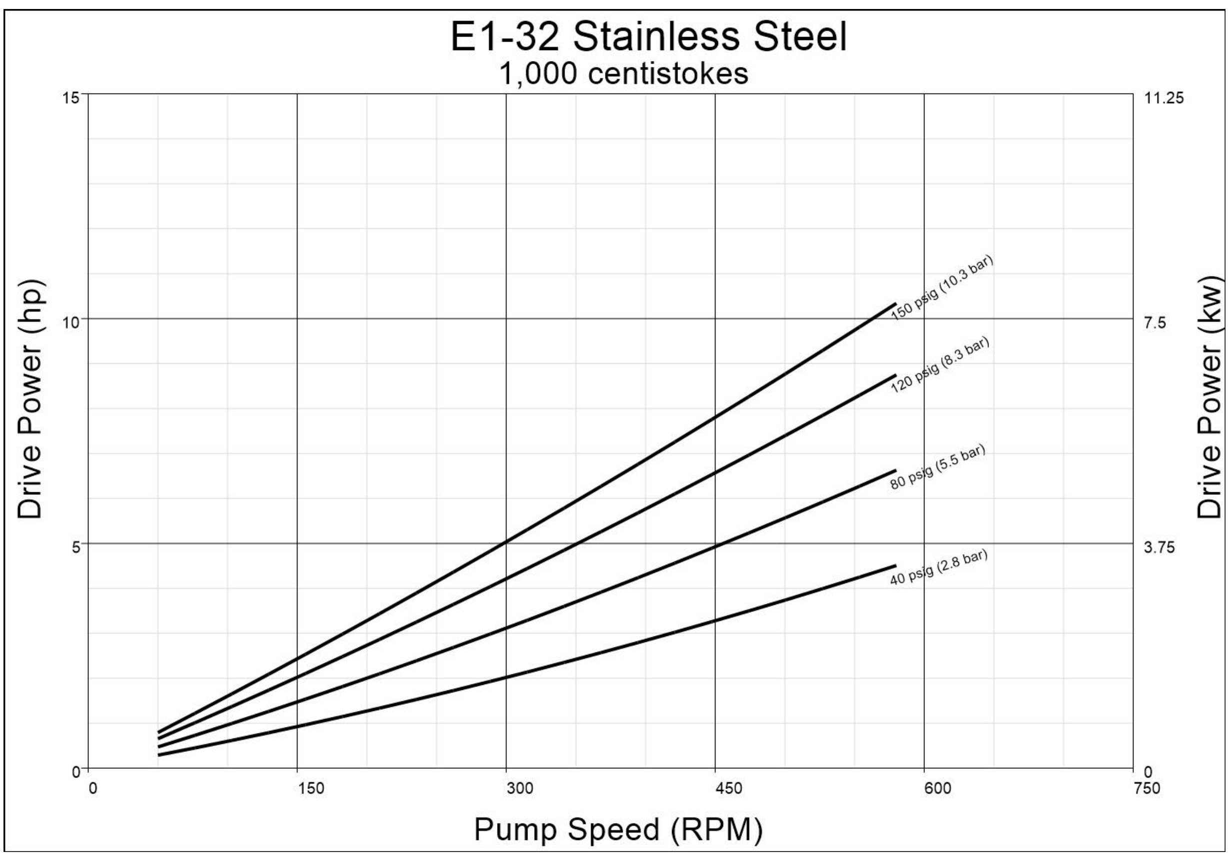
E1-32 Stainless Steel
1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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80 psig (5.5 bar)
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11.25
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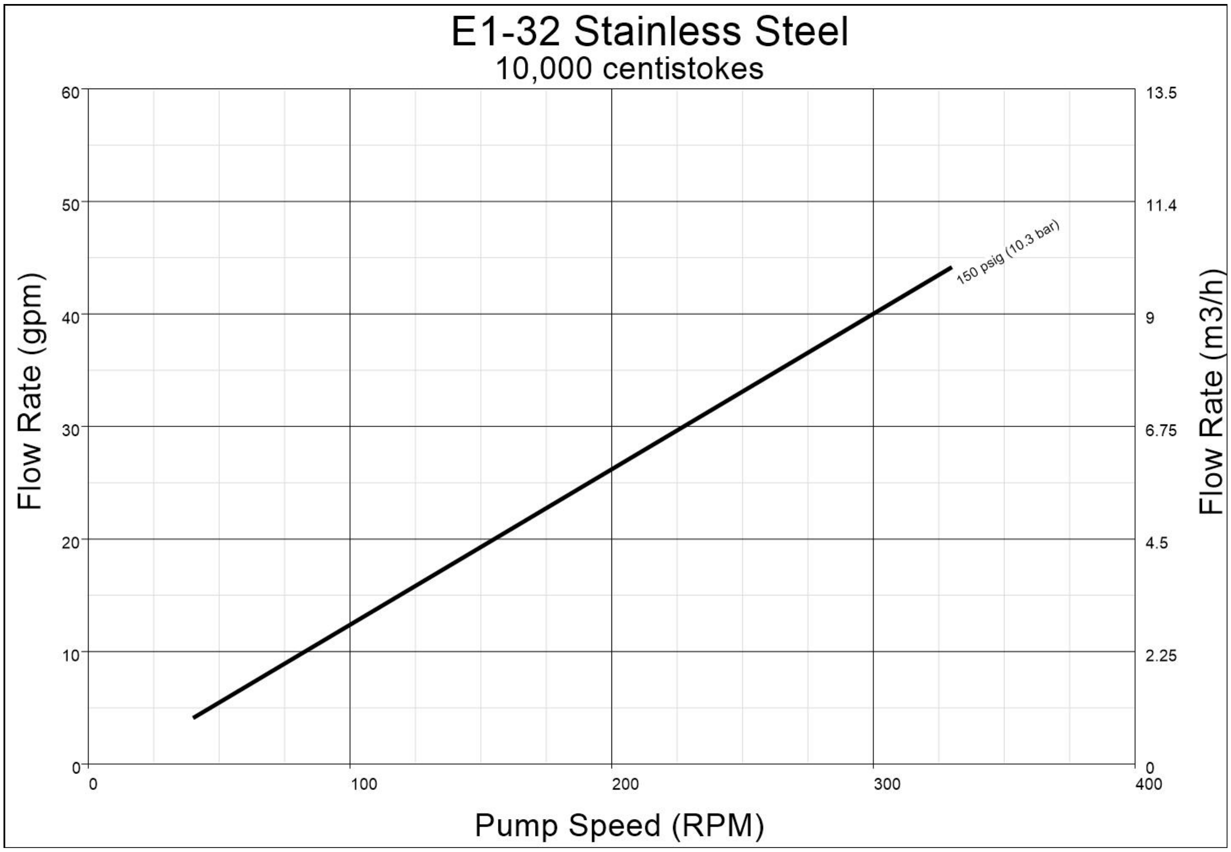
E1-32 Stainless Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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11.4
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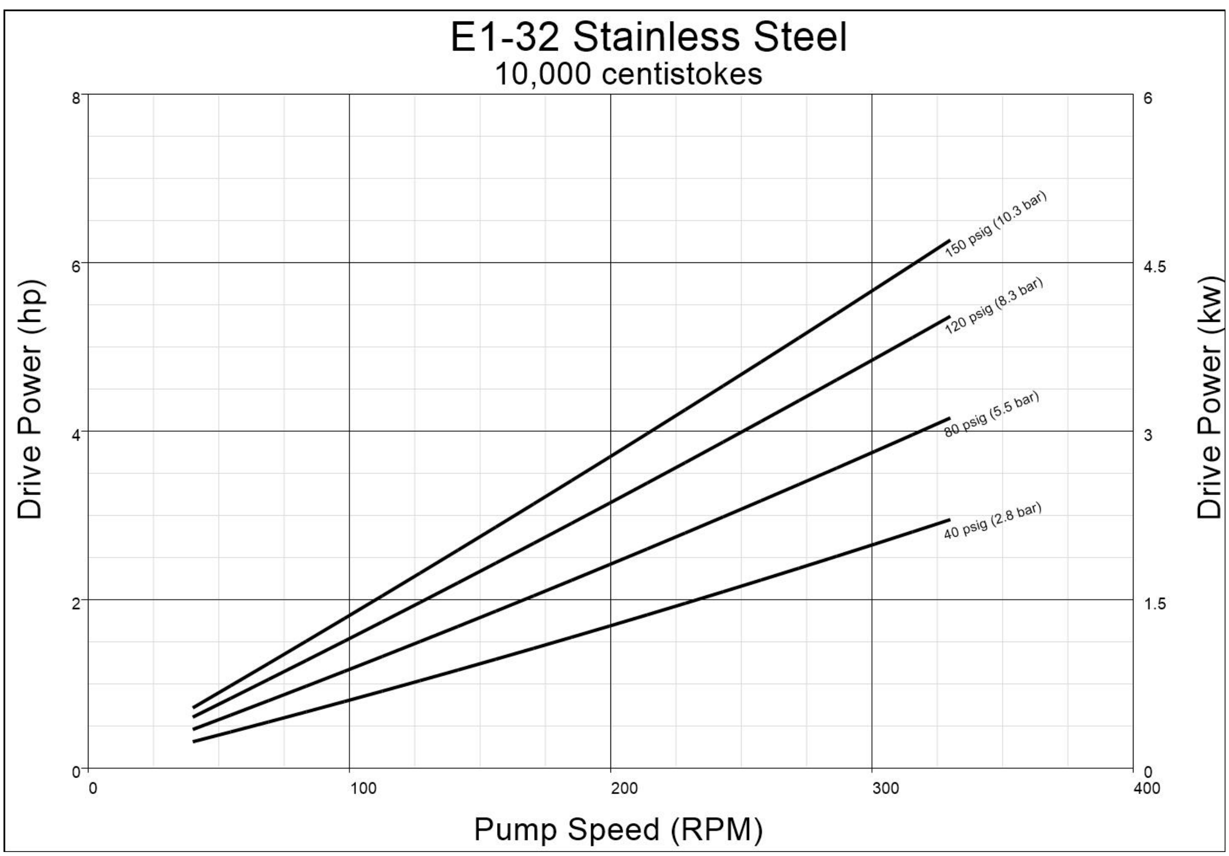
E1-32 Stainless Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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80 psig (5.5 bar)
40 psig (2.8 bar)
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1.5
3
4.5
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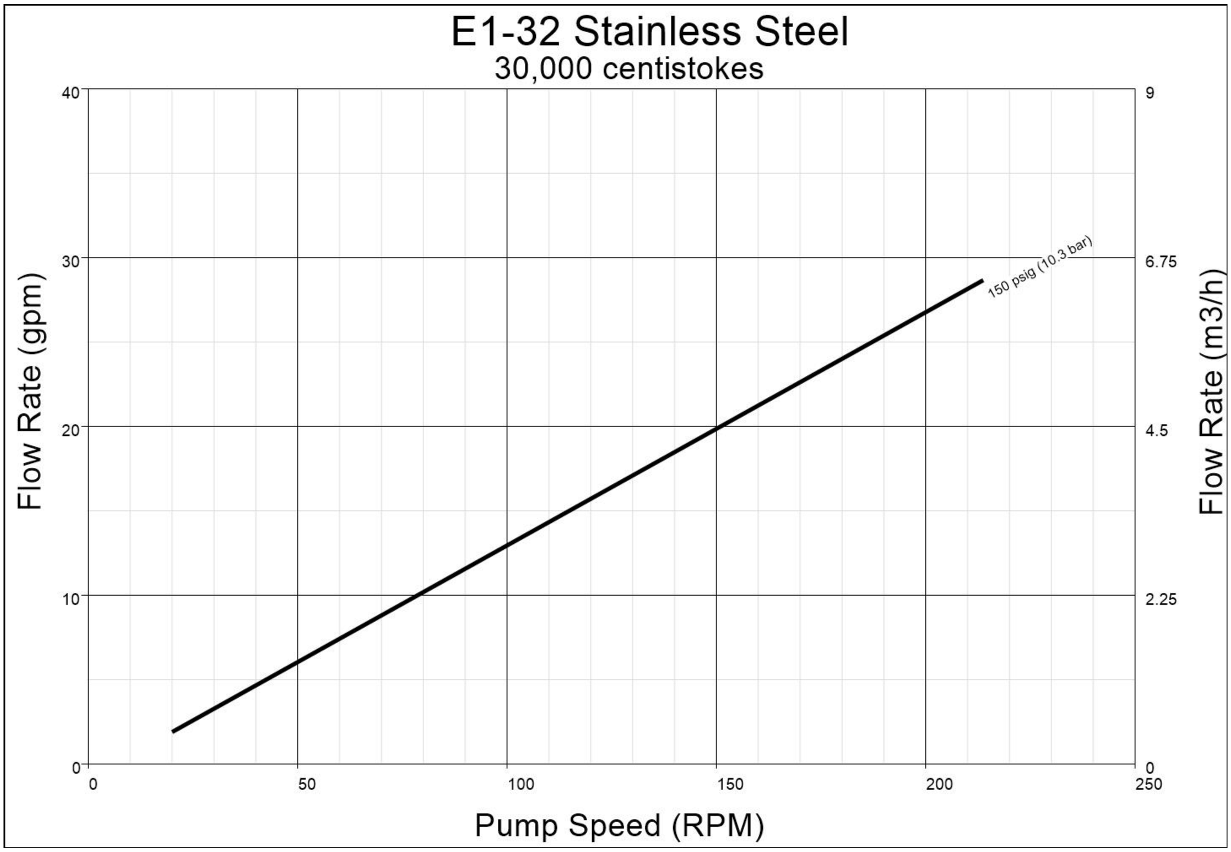
0
100
200
300
400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Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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6.75
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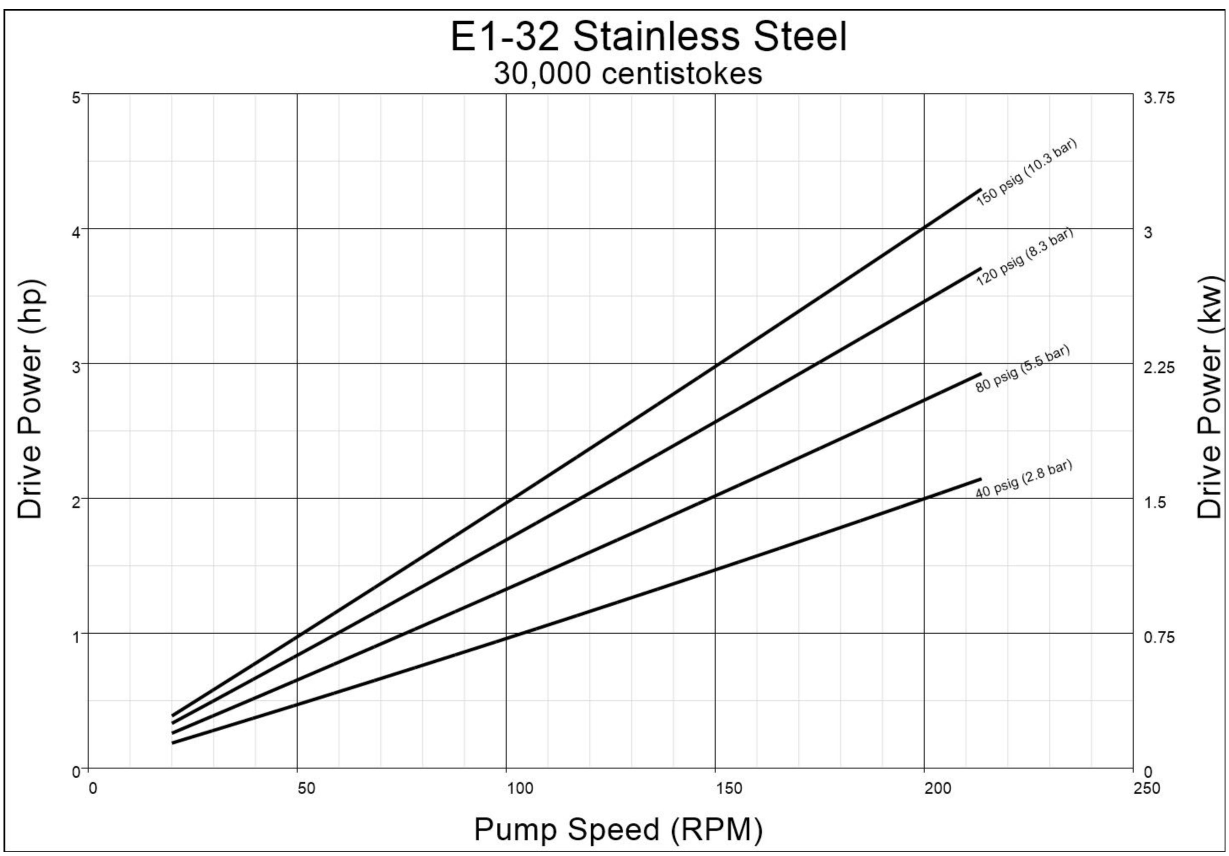
E1-32 Stainless Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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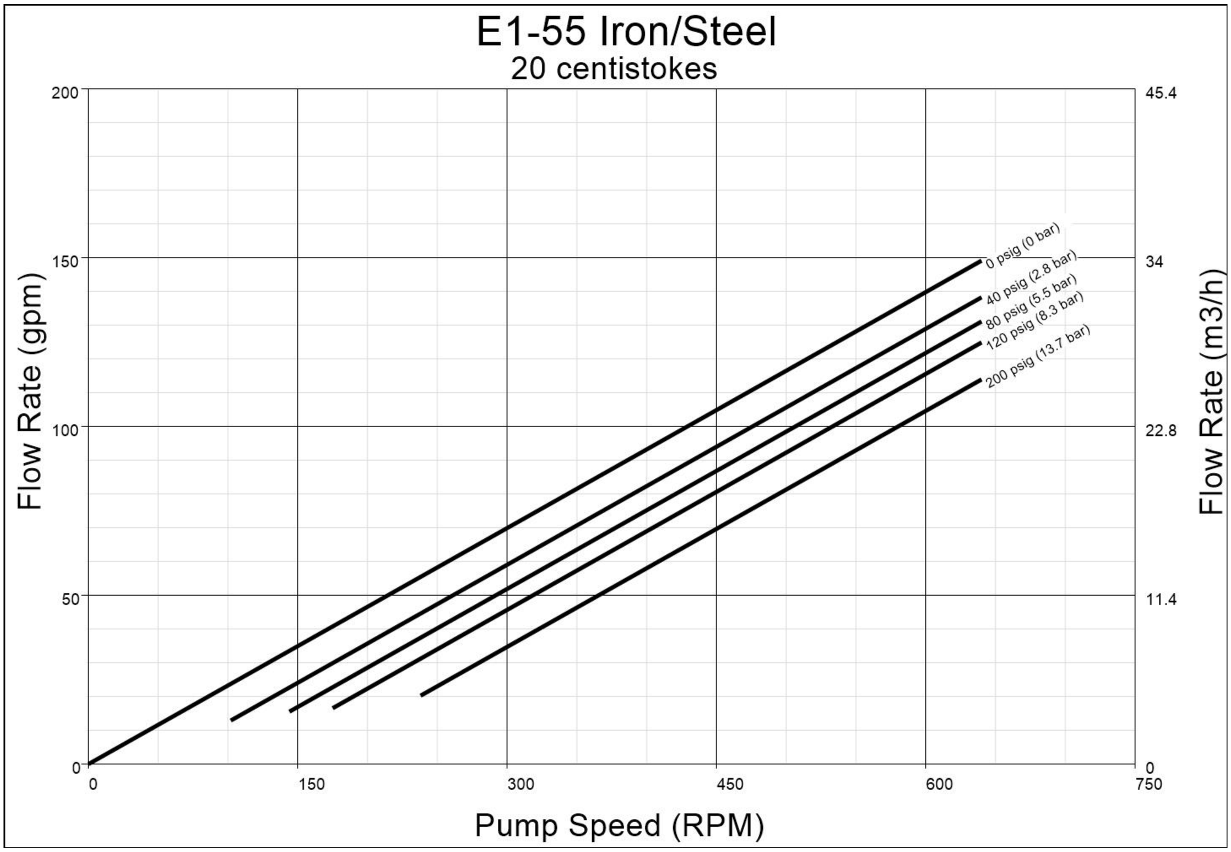
E1-55 Iron/Steel
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Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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200
0
11.4
22.8
34
45.4
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150
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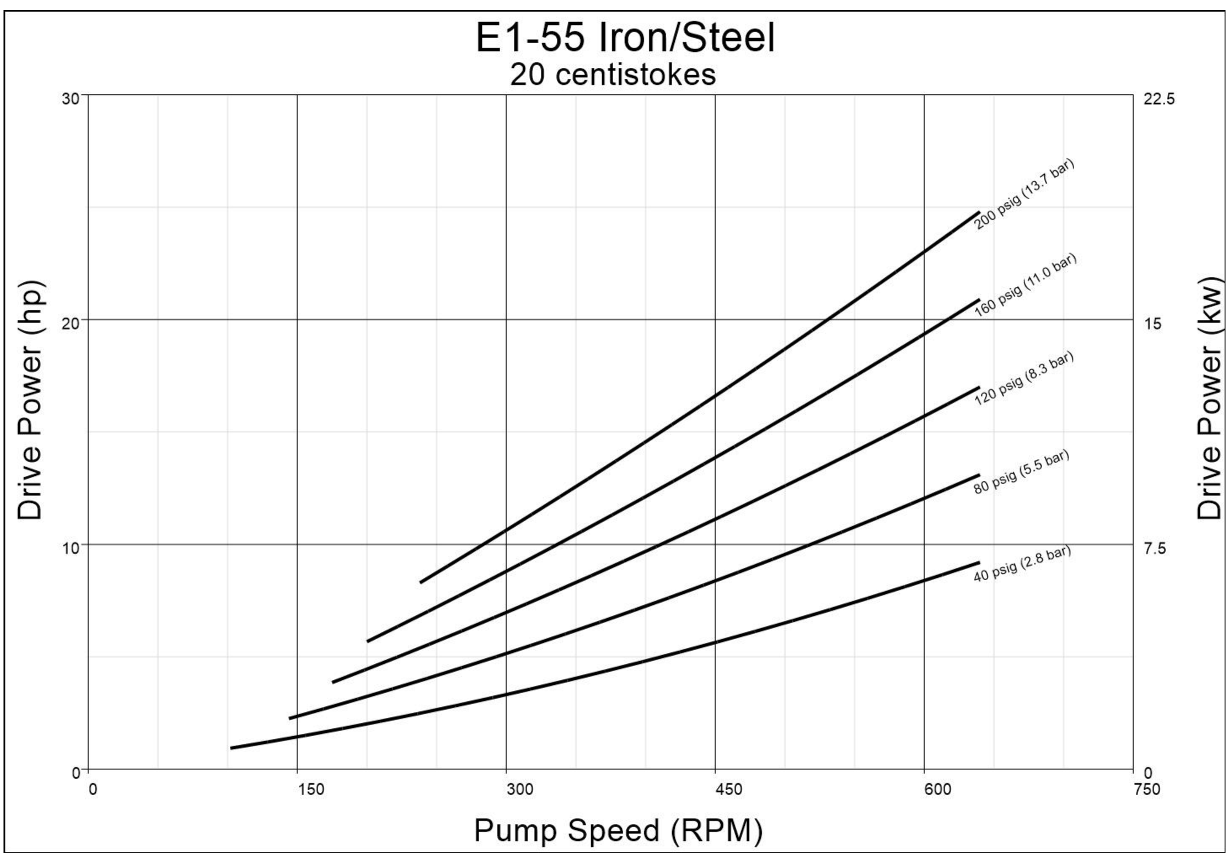
200 psig (13.7 bar)


E1-55 Iron/Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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22.5
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120 psig (8.3 bar)
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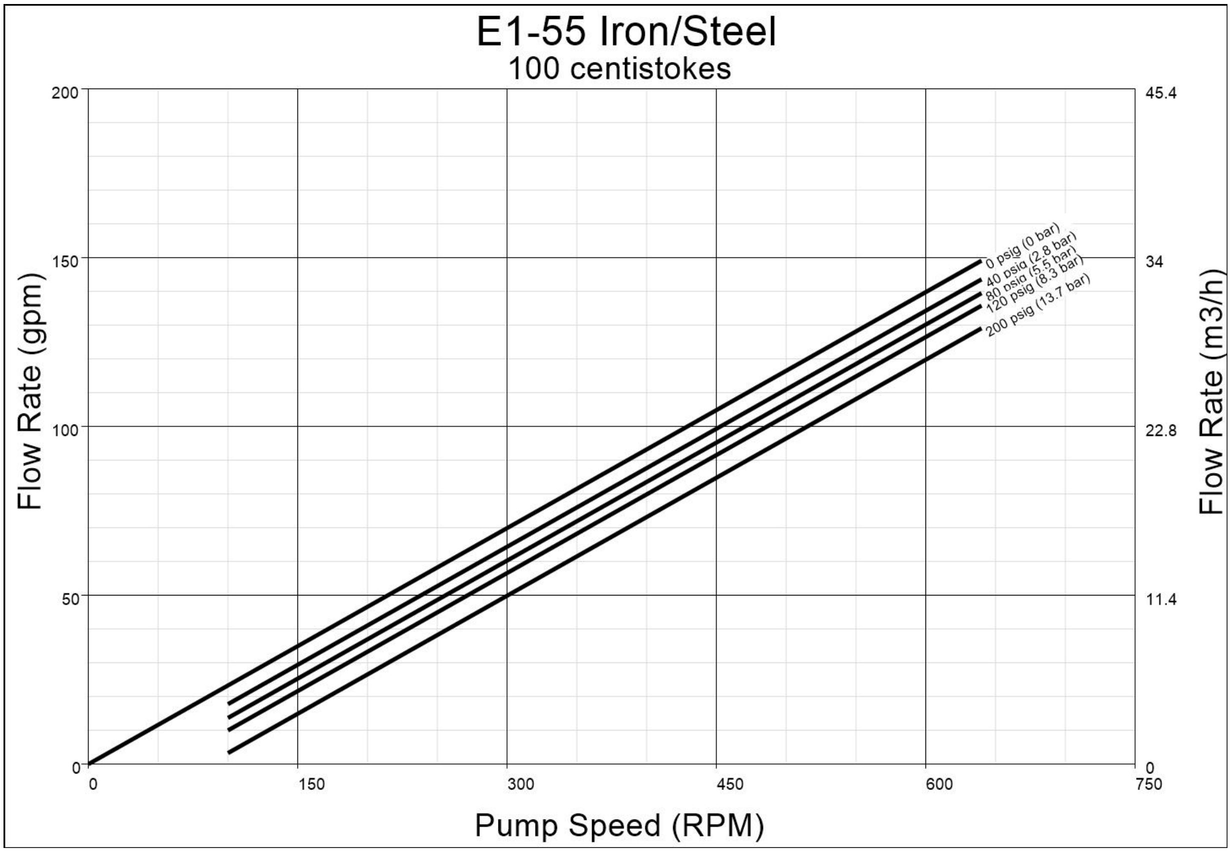

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100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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80 psig (5.5 bar)
120 psig (8.3 bar)
200 psig (13.7 bar)
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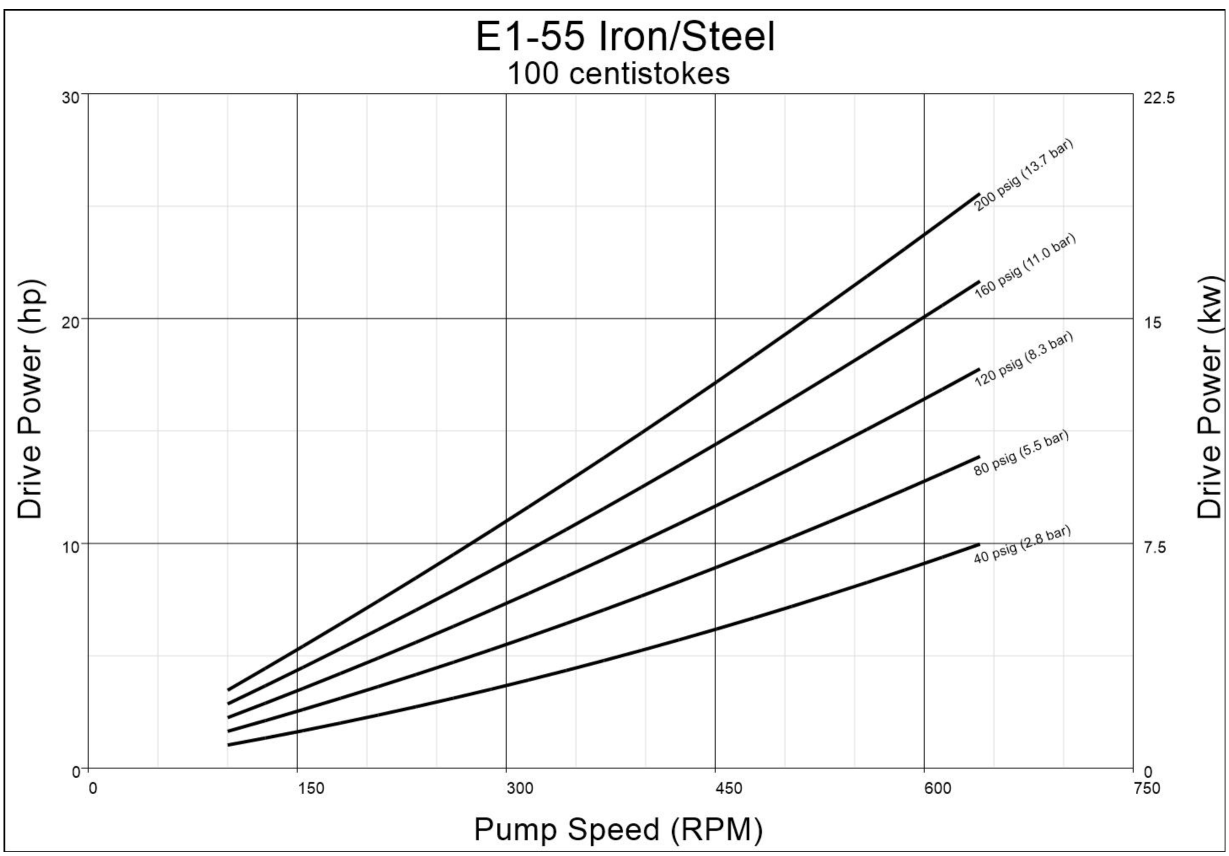

E1-55 Iron/Steel
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Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
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7.5
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22.5
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150
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750


E1-55 Iron/Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
80 psig (5.5 bar)
200 psig (13.7 bar)
0
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50
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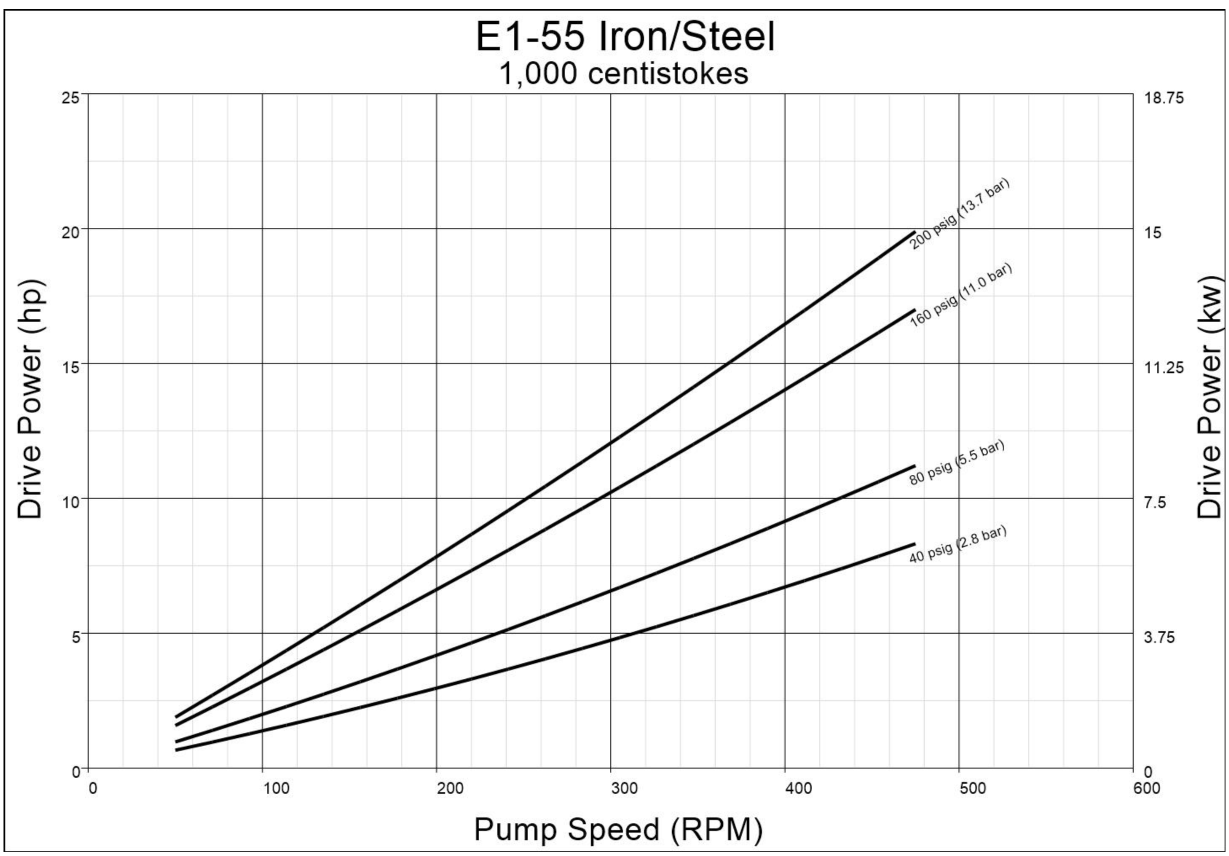
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Drive Power (kw)
Pump Speed (RPM)
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80 psig (5.5 bar)
40 psig (2.8 bar)
0
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3.75
7.5
11.25
15
18.75
0
100
200
300
400
500
600


E1-55 Iron/Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
80 psig (5.5 bar)
200 psig (13.7 bar)
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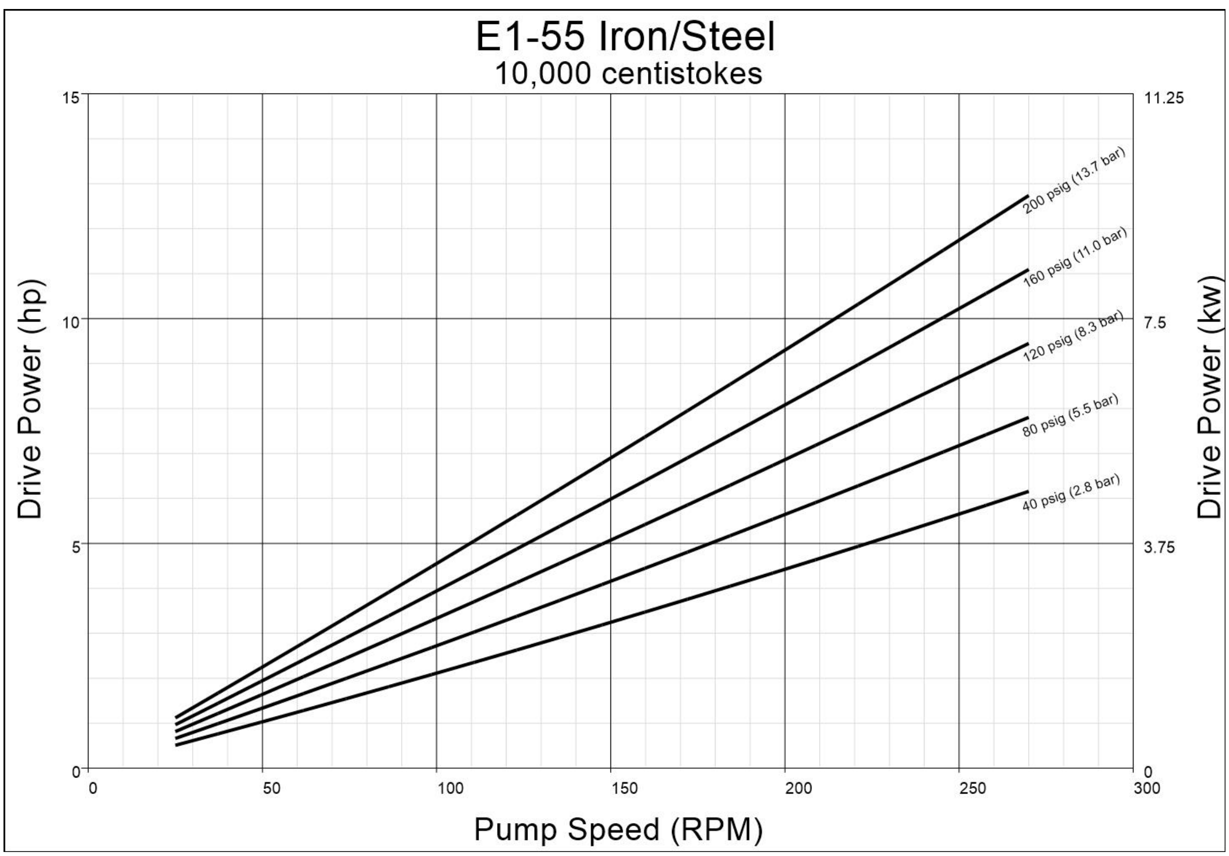
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Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
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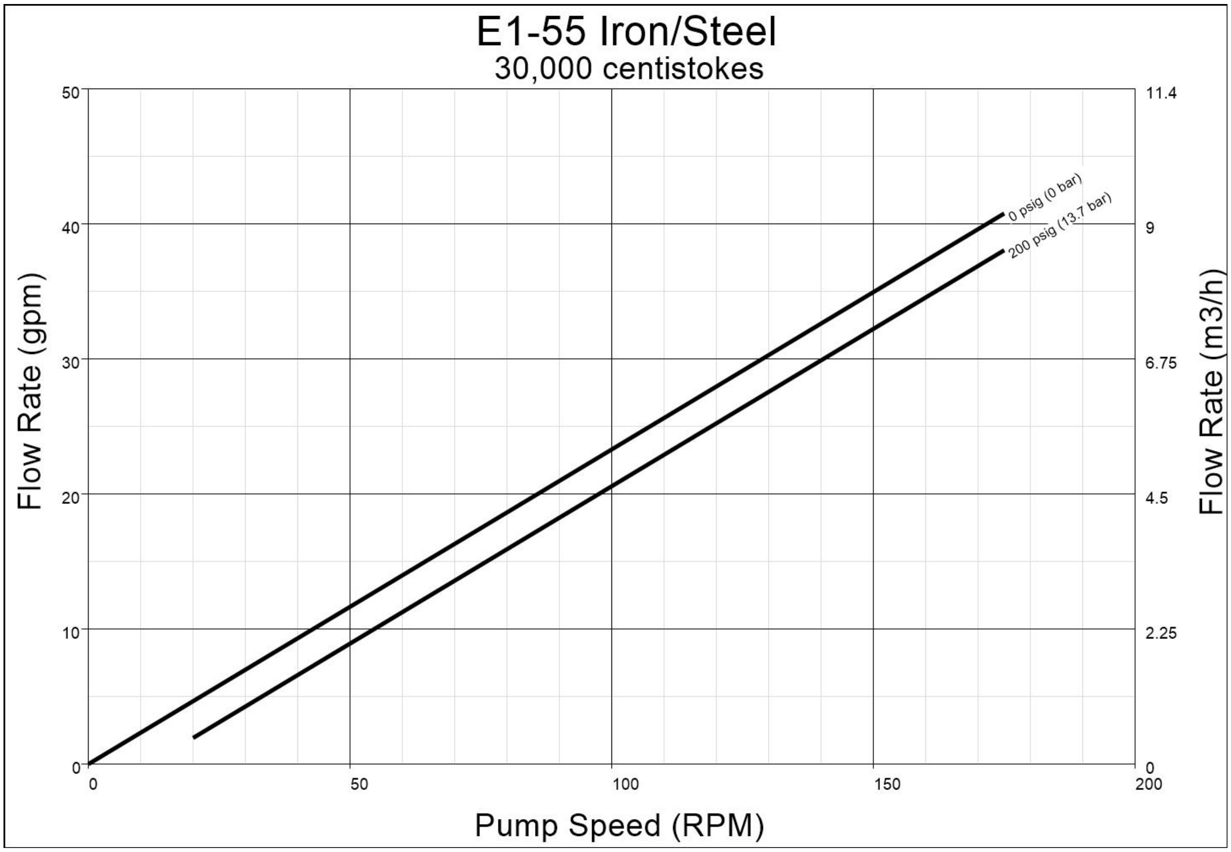
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Flow Rate (m3/h)
Pump Speed (RPM)
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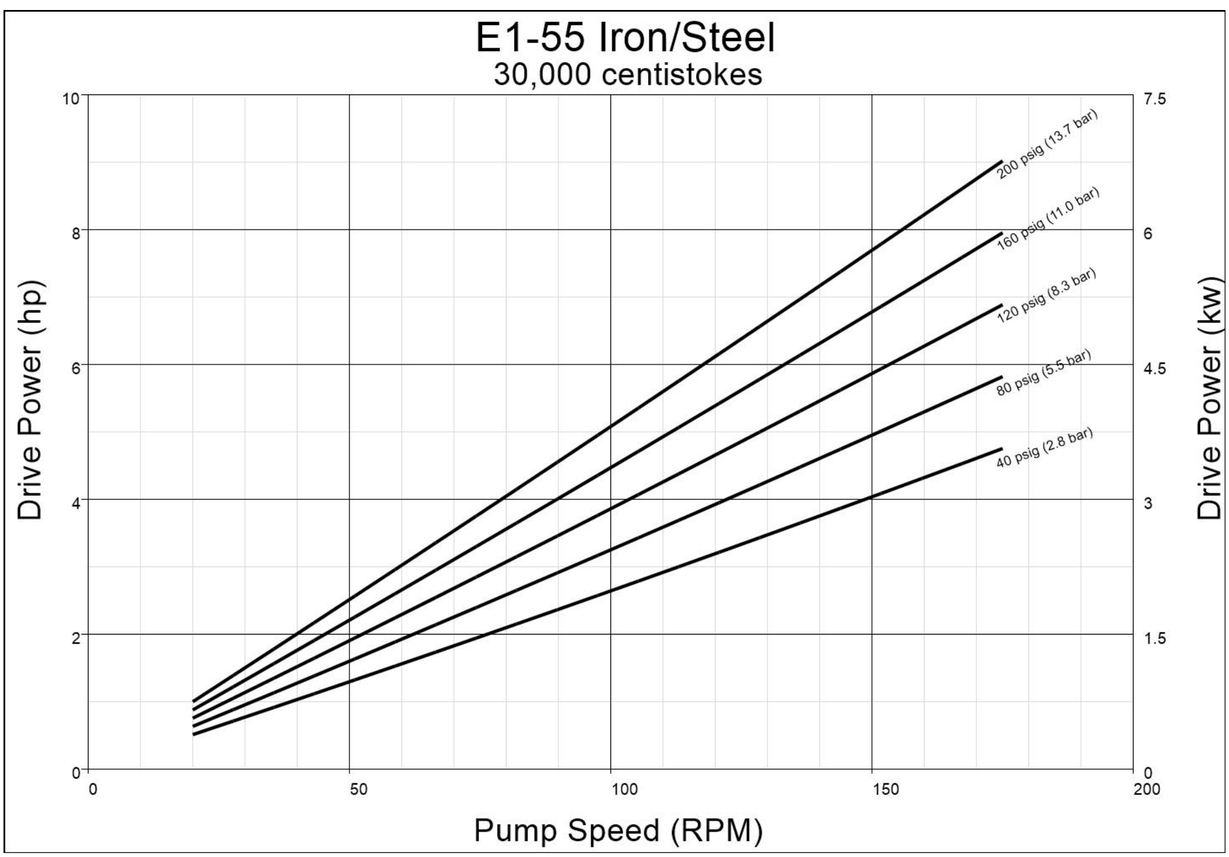
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Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
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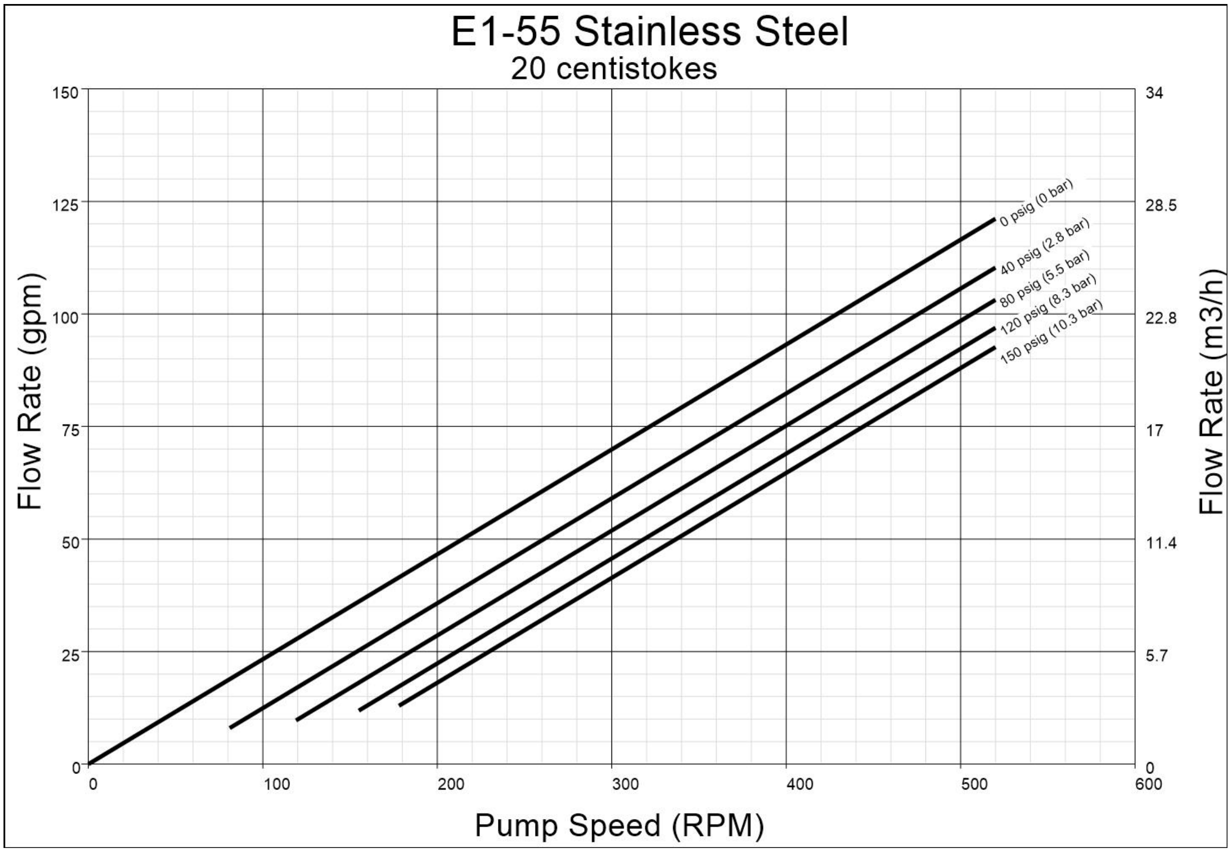
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Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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80 psig (5.5 bar)
120 psig (8.3 bar)
150 psig (10.3 bar)
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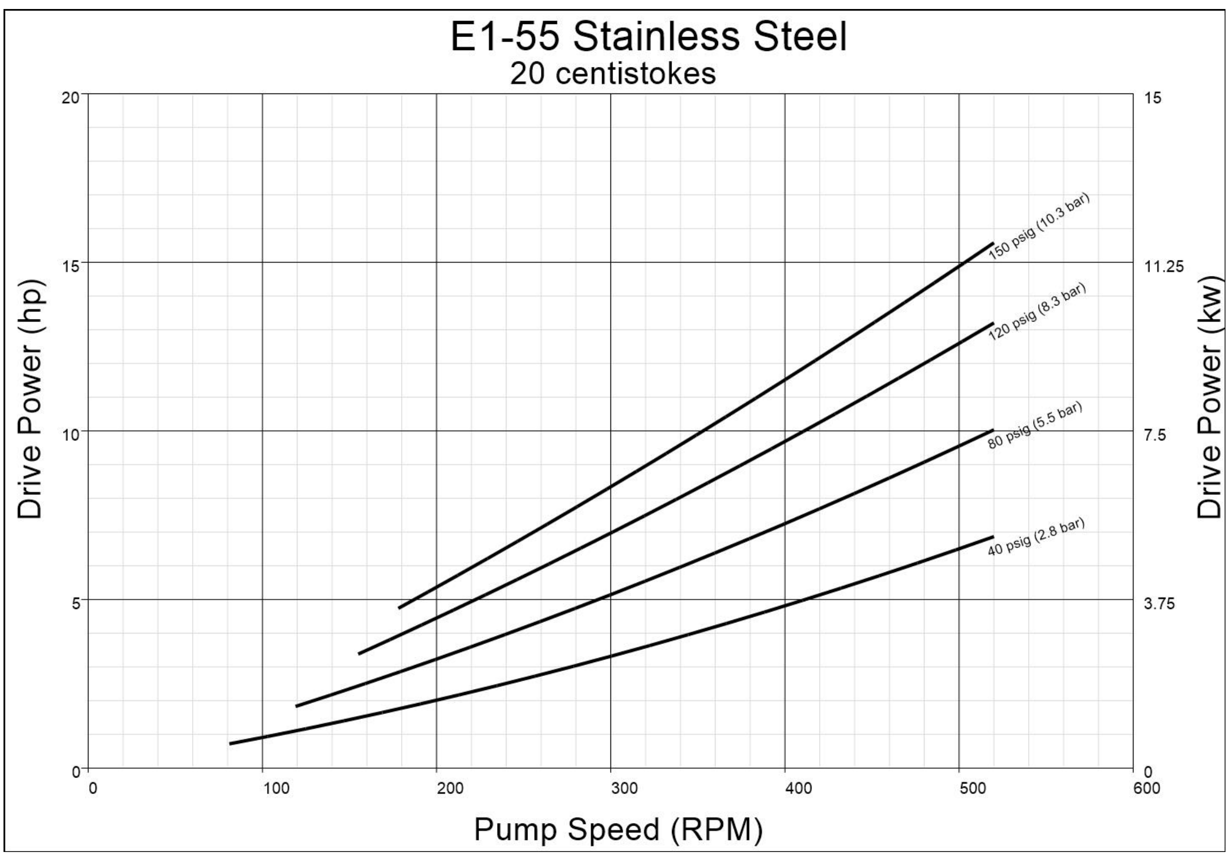
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20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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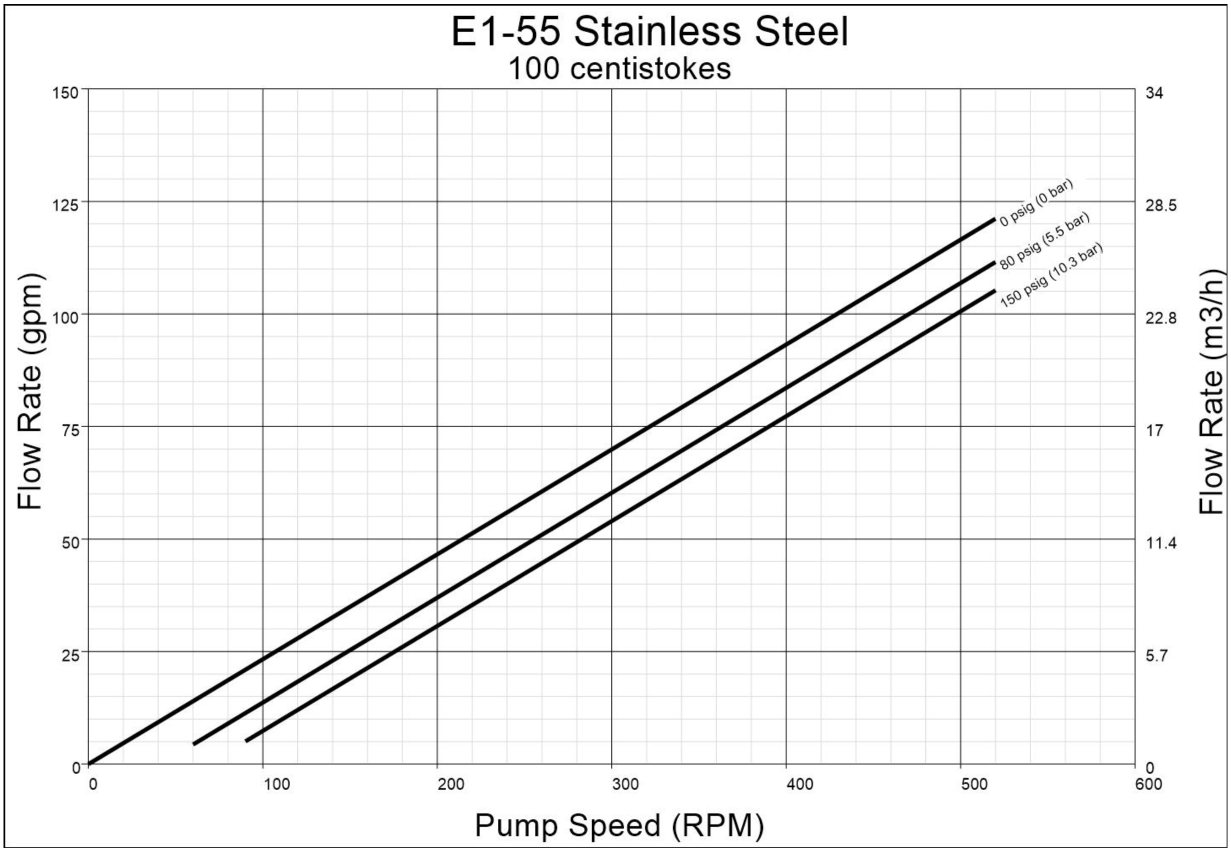
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100 centistokes
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Flow Rate (m3/h)
Pump Speed (RPM)
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150 psig (10.3 bar)
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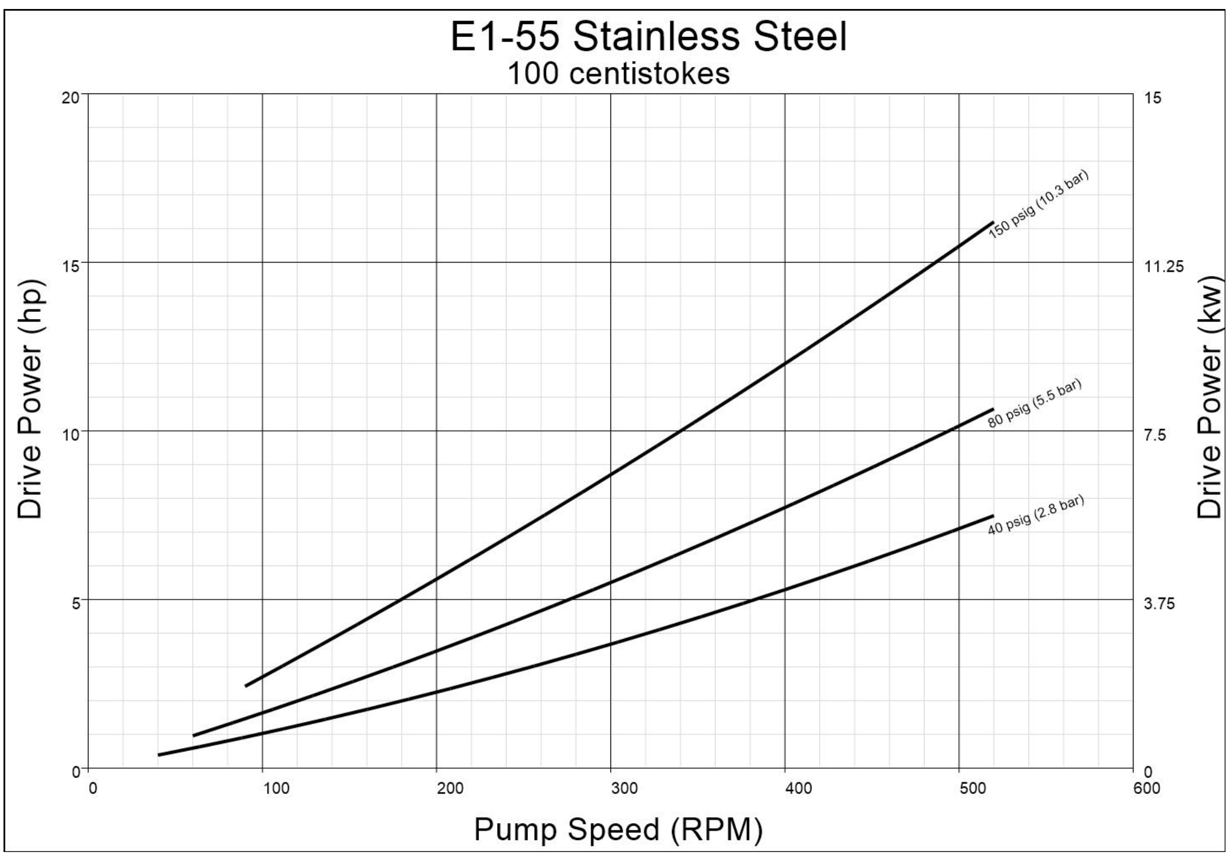
E1-55 Stainless Steel
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Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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40 psig (2.8 bar)
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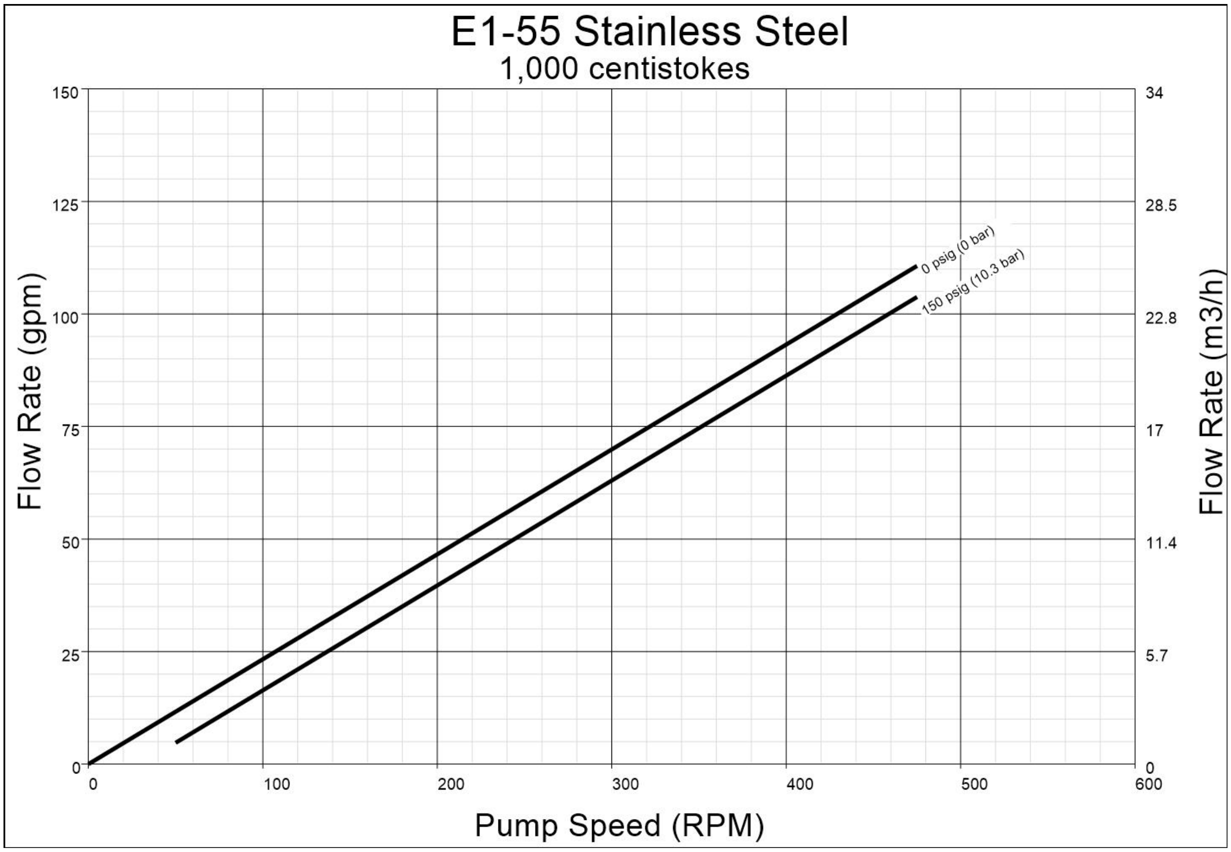
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Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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125
150
5.7
11.4
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22.8
28.5
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500
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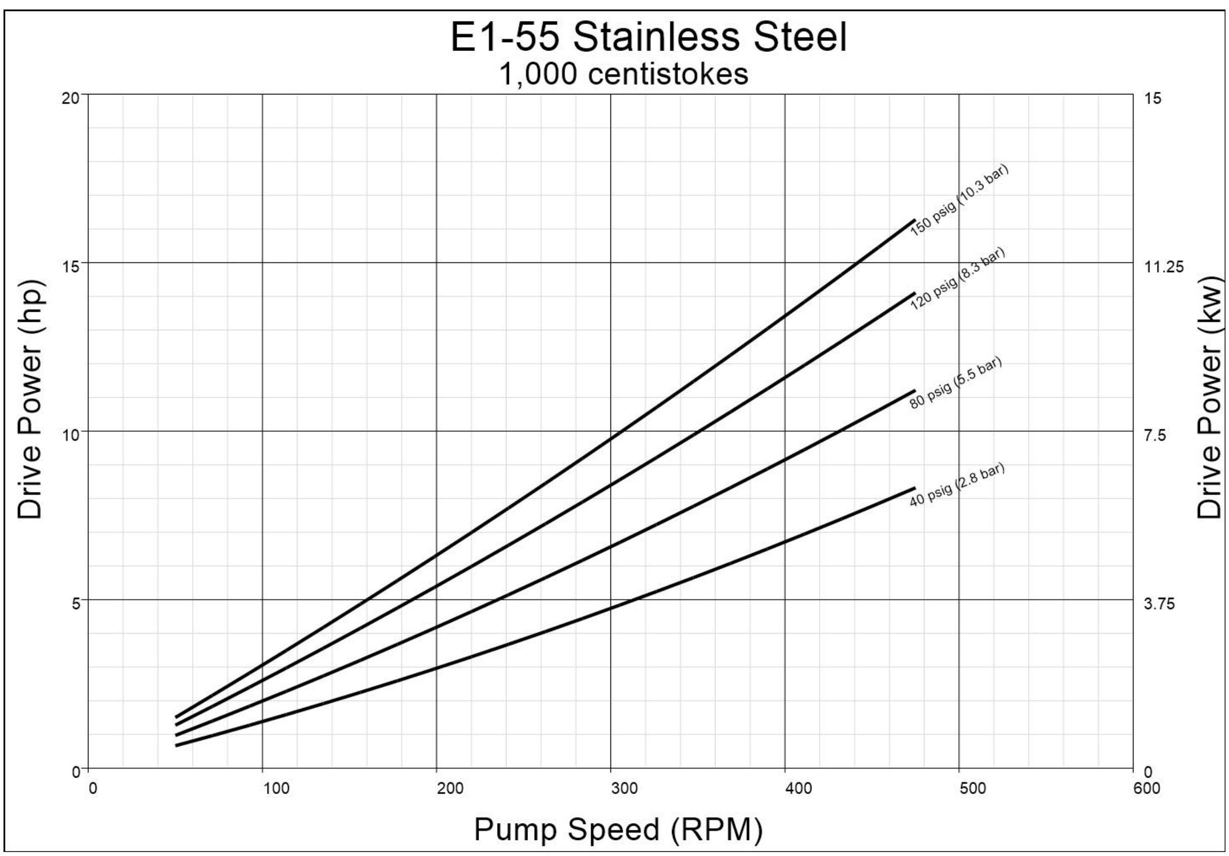
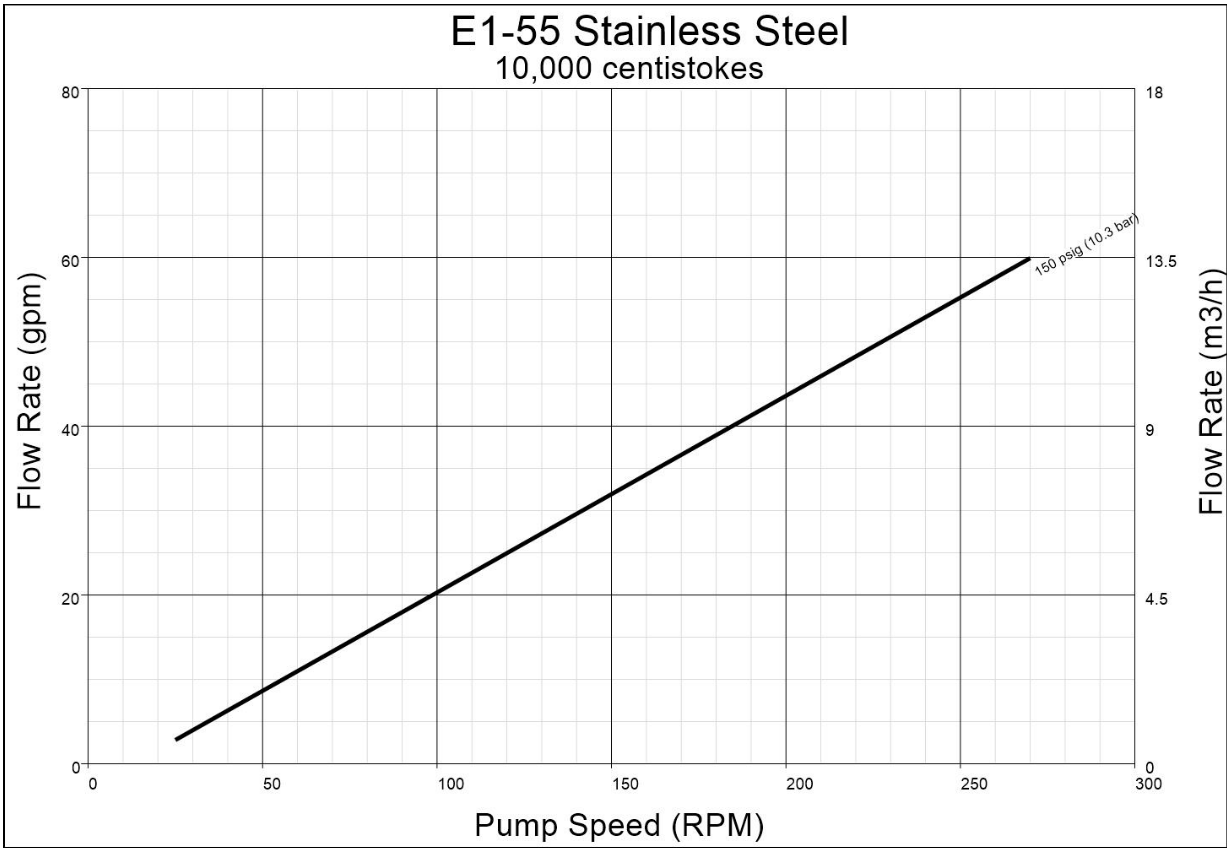
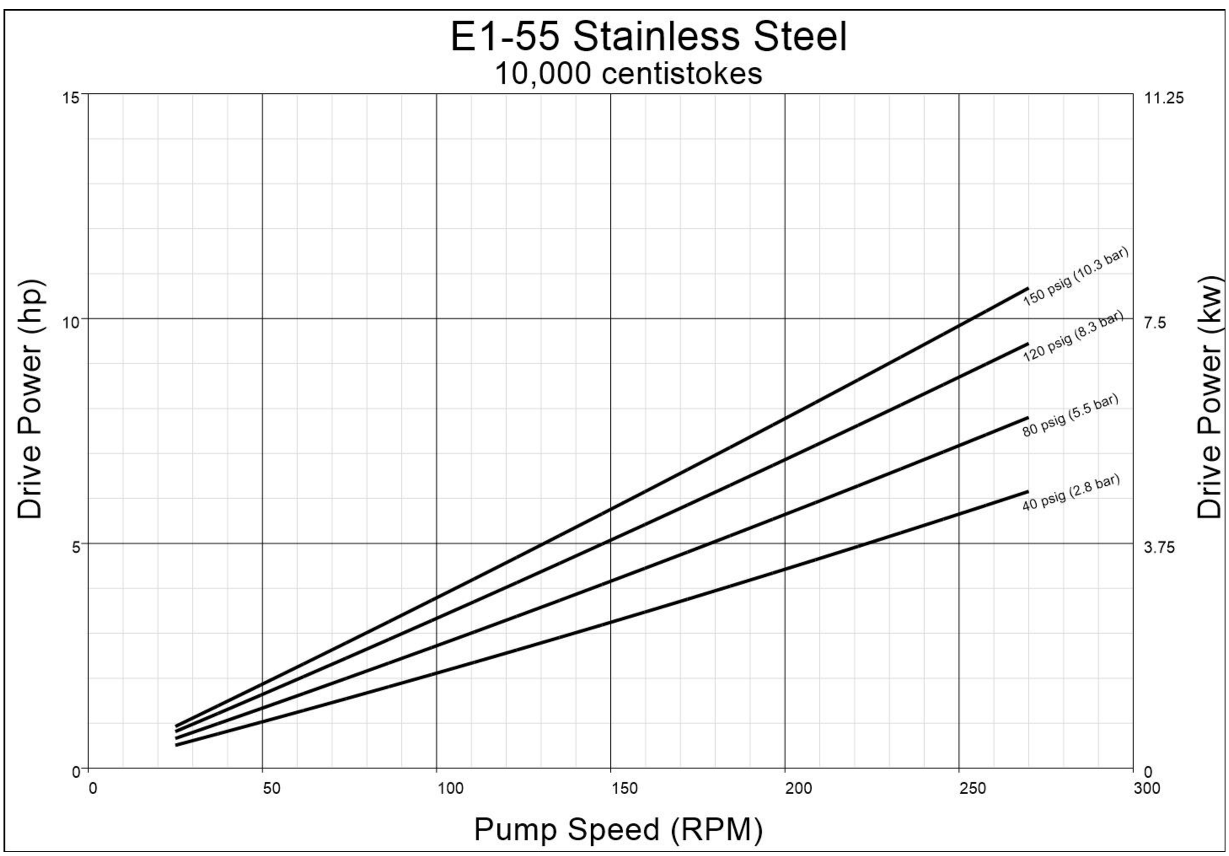

E1-55 Stainless Steel
1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
5
10
15
20
3.75
7.5
11.25
15
100
200
300
400
500
600


E1-55 Stainless Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
150 psig (10.3 bar)
0
20
40
60
80
4.5
9
13.5
18
50
100
150
200
250
300


E1-55 Stainless Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
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15
3.75
7.5
11.25
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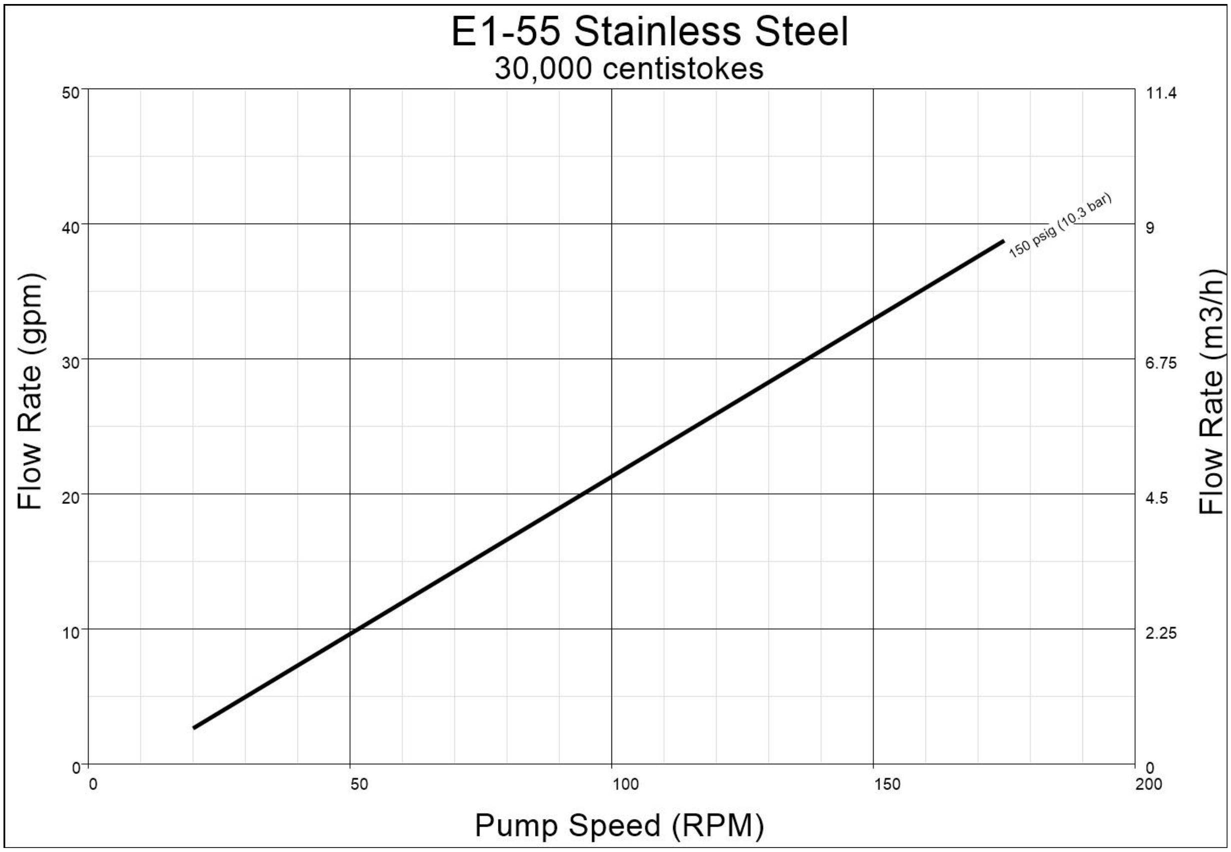
100
150
200
250
300


E1-55 Stainless Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
150 psig (10.3 bar)
0
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2.25
4.5
6.75
9
11.4
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50
100
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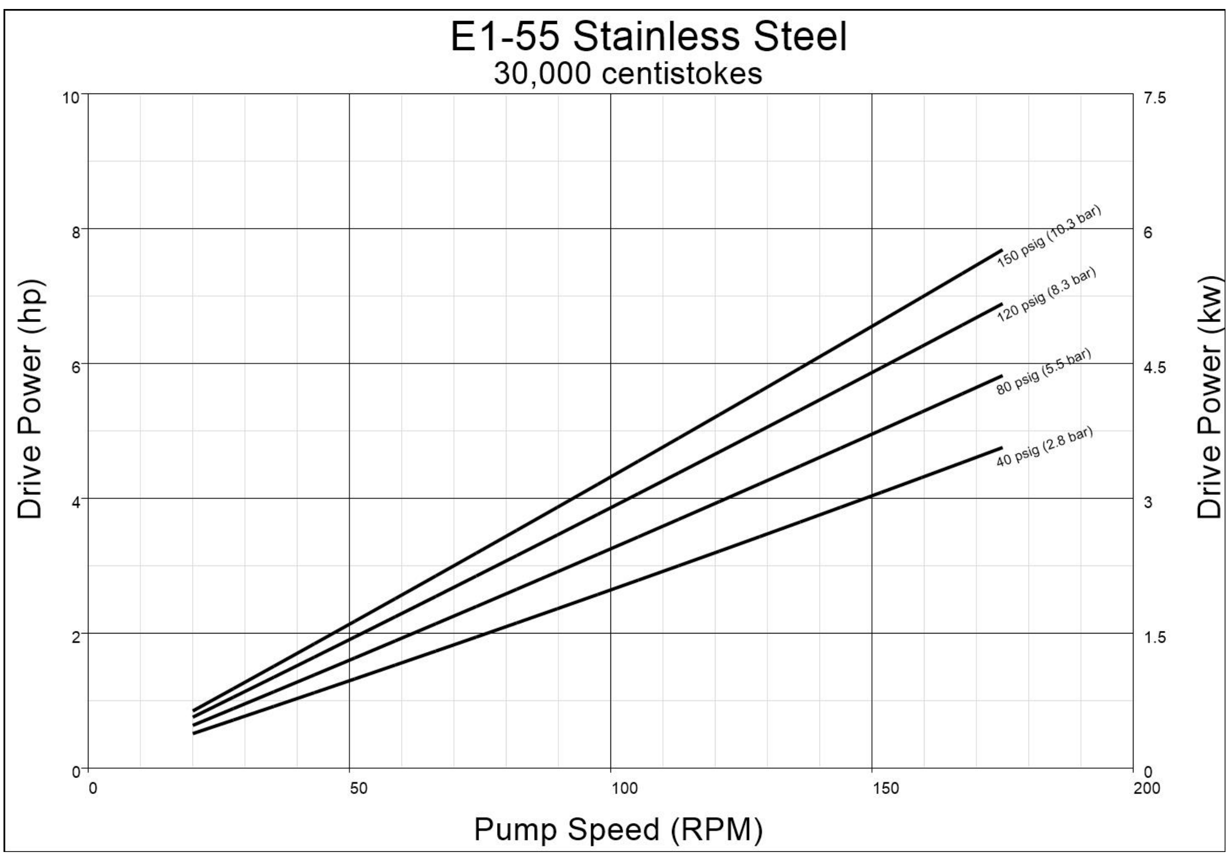
E1-55 Stainless Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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6
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1.5
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4.5
6
7.5
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100
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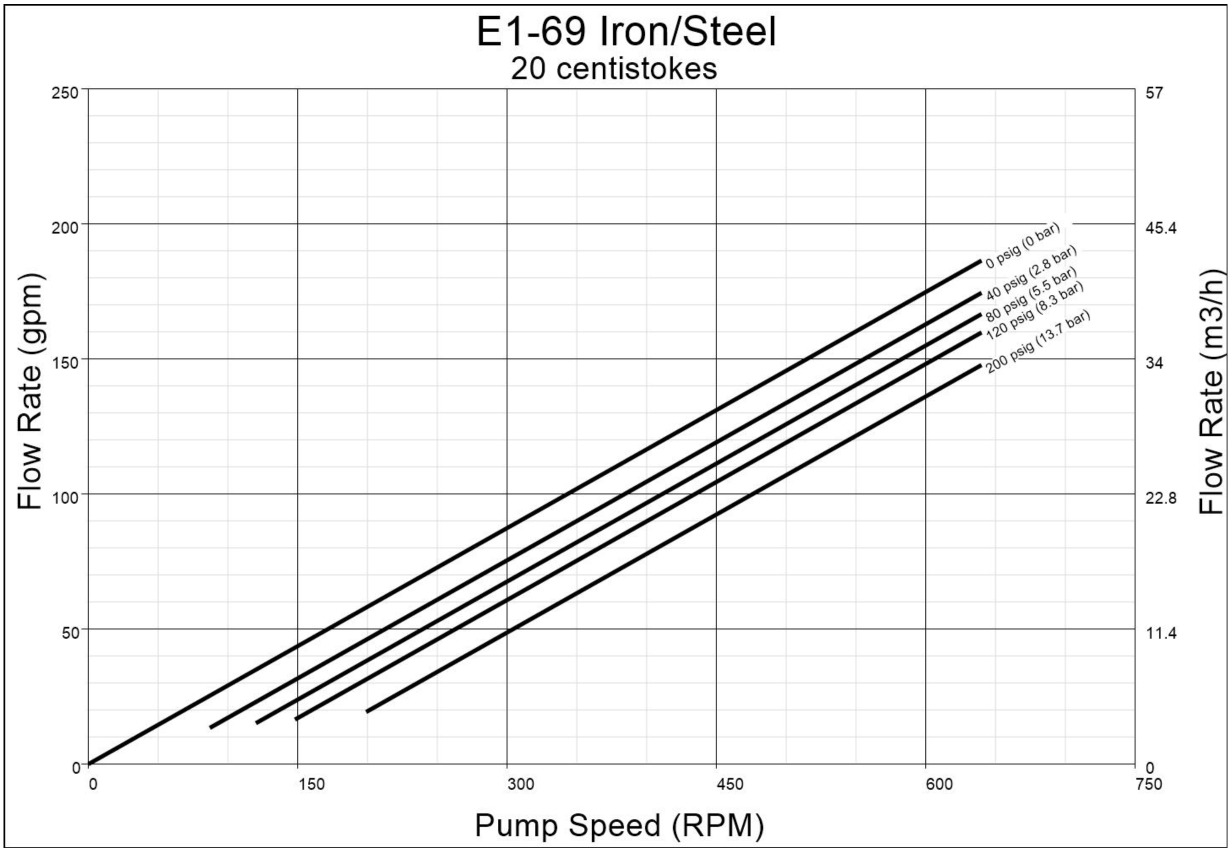
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20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
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80 psig (5.5 bar)
120 psig (8.3 bar)
200 psig (13.7 bar)
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45.4
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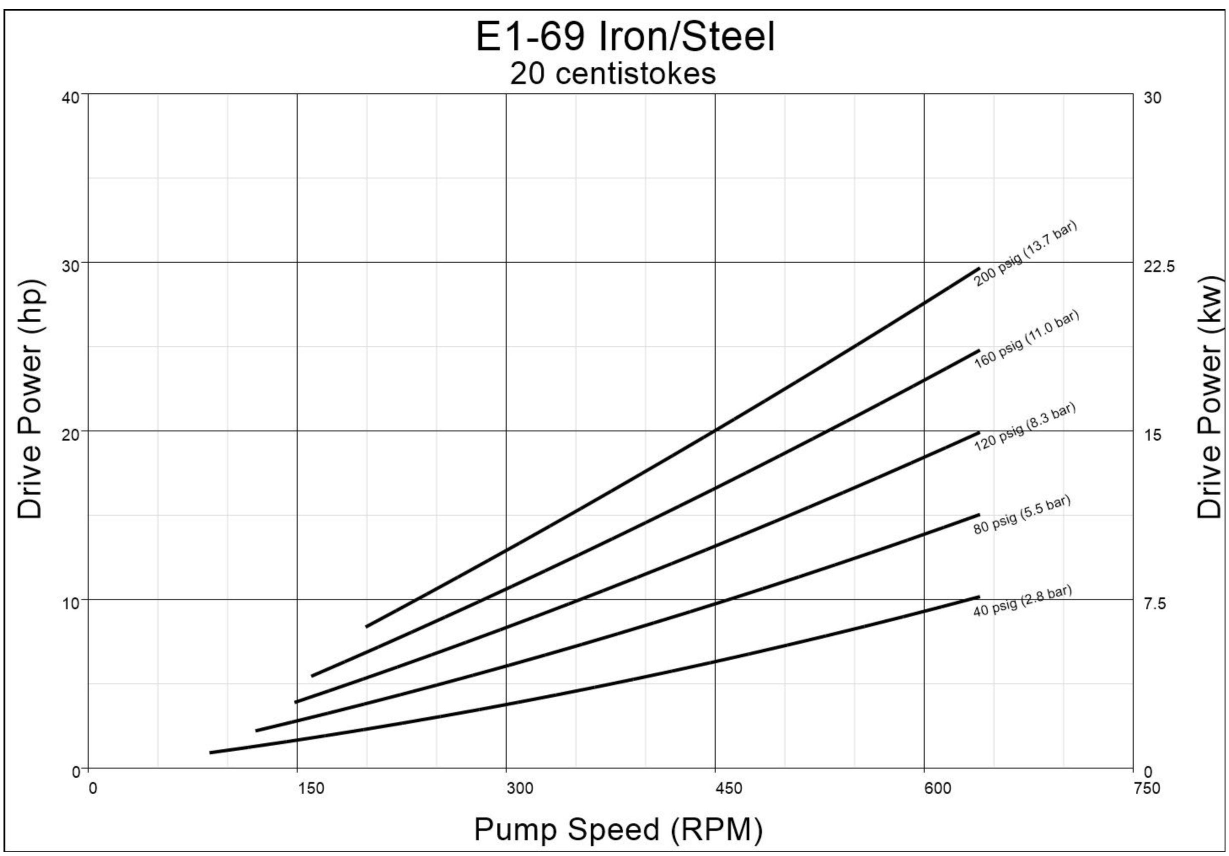
E1-69 Iron/Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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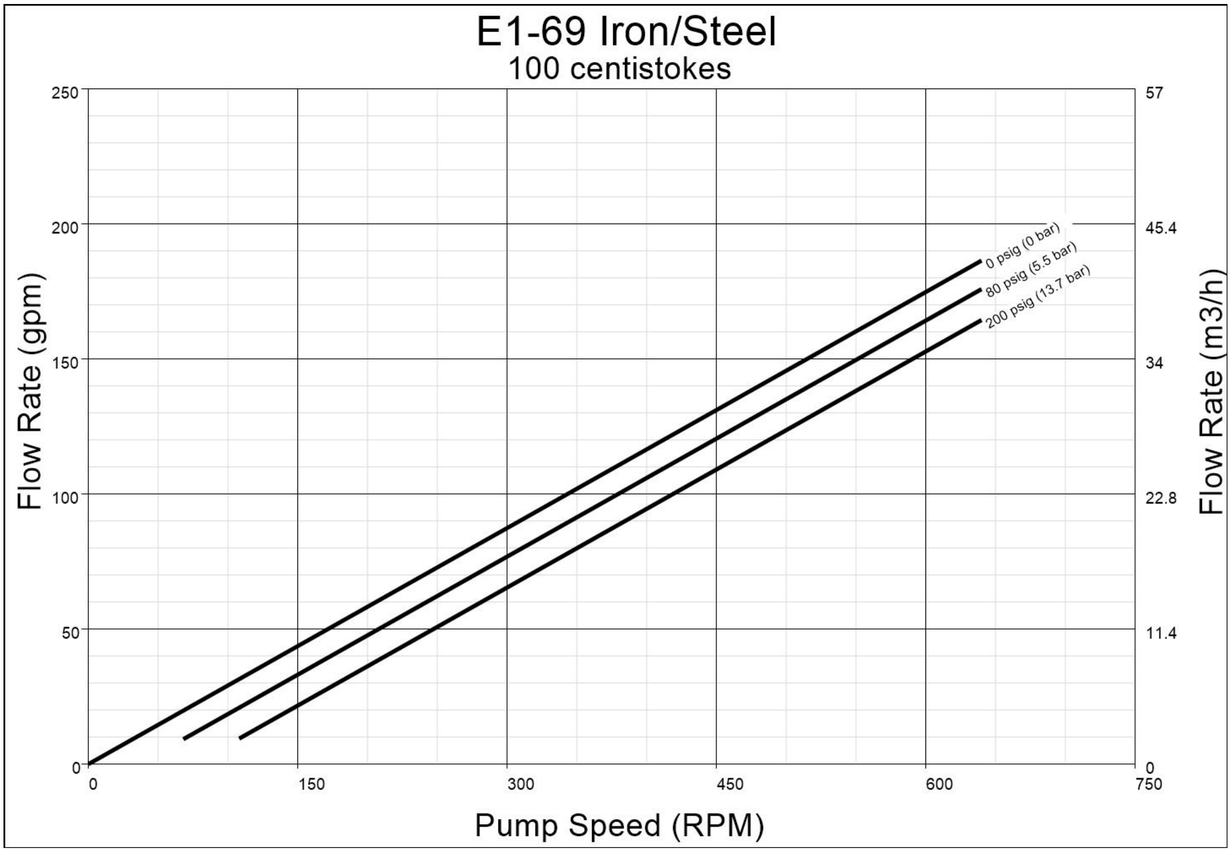
E1-69 Iron/Steel
100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
80 psig (5.5 bar)
200 psig (13.7 bar)
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11.4
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45.4
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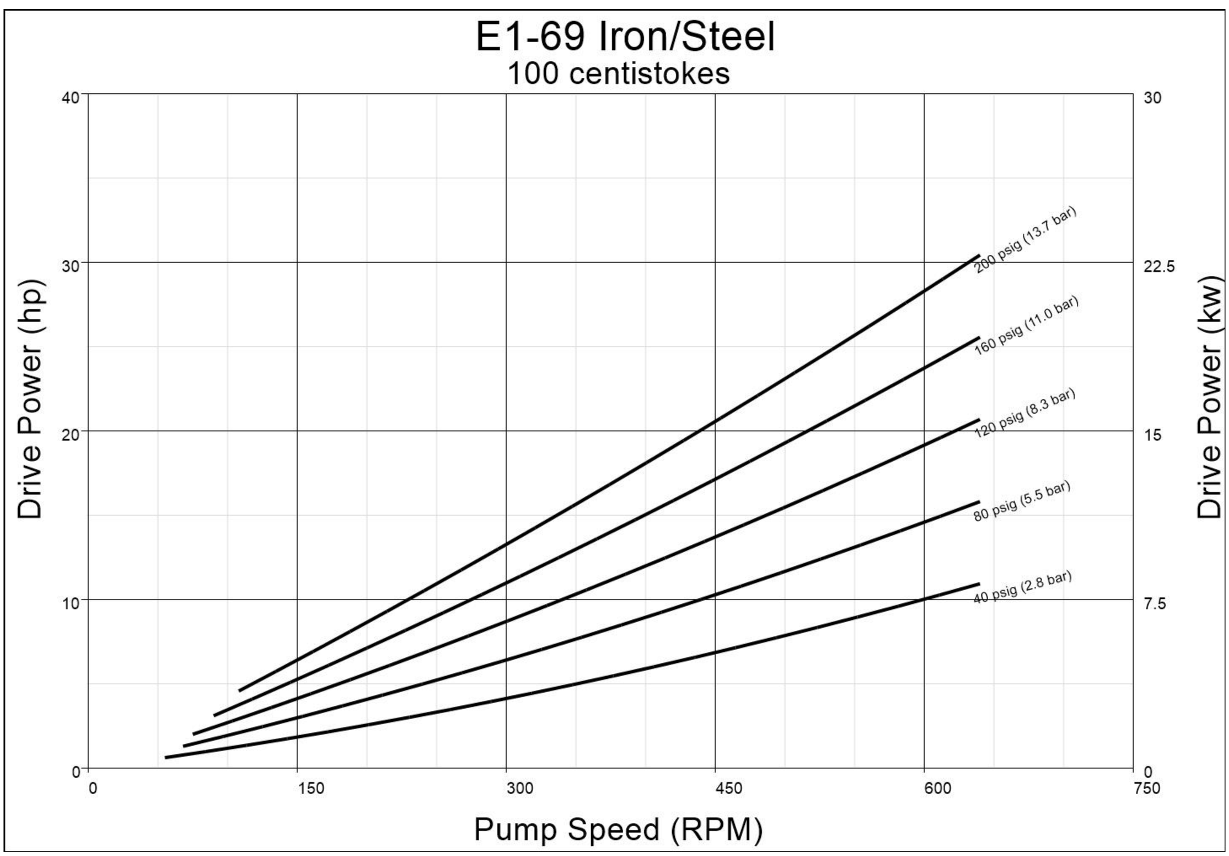
E1-69 Iron/Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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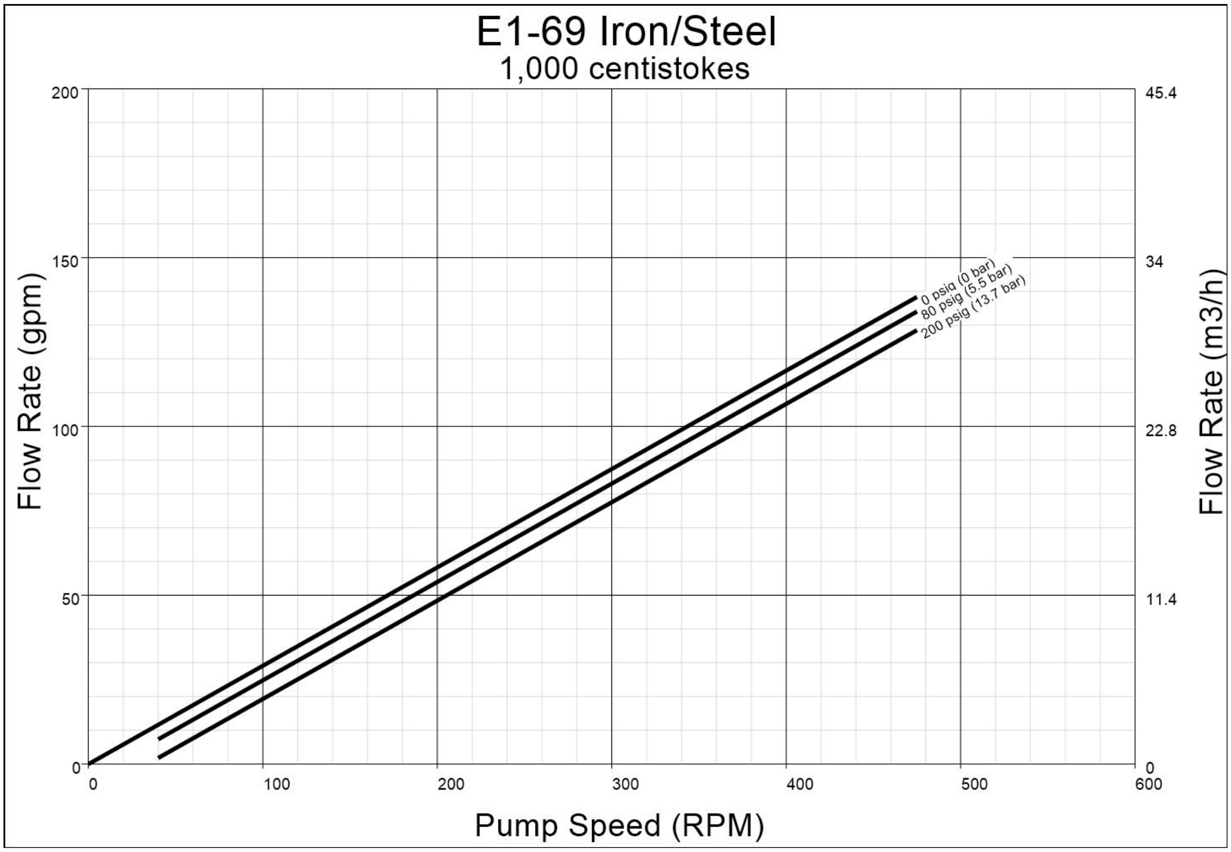
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1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
80 psig (5.5 bar)
200 psig (13.7 bar)
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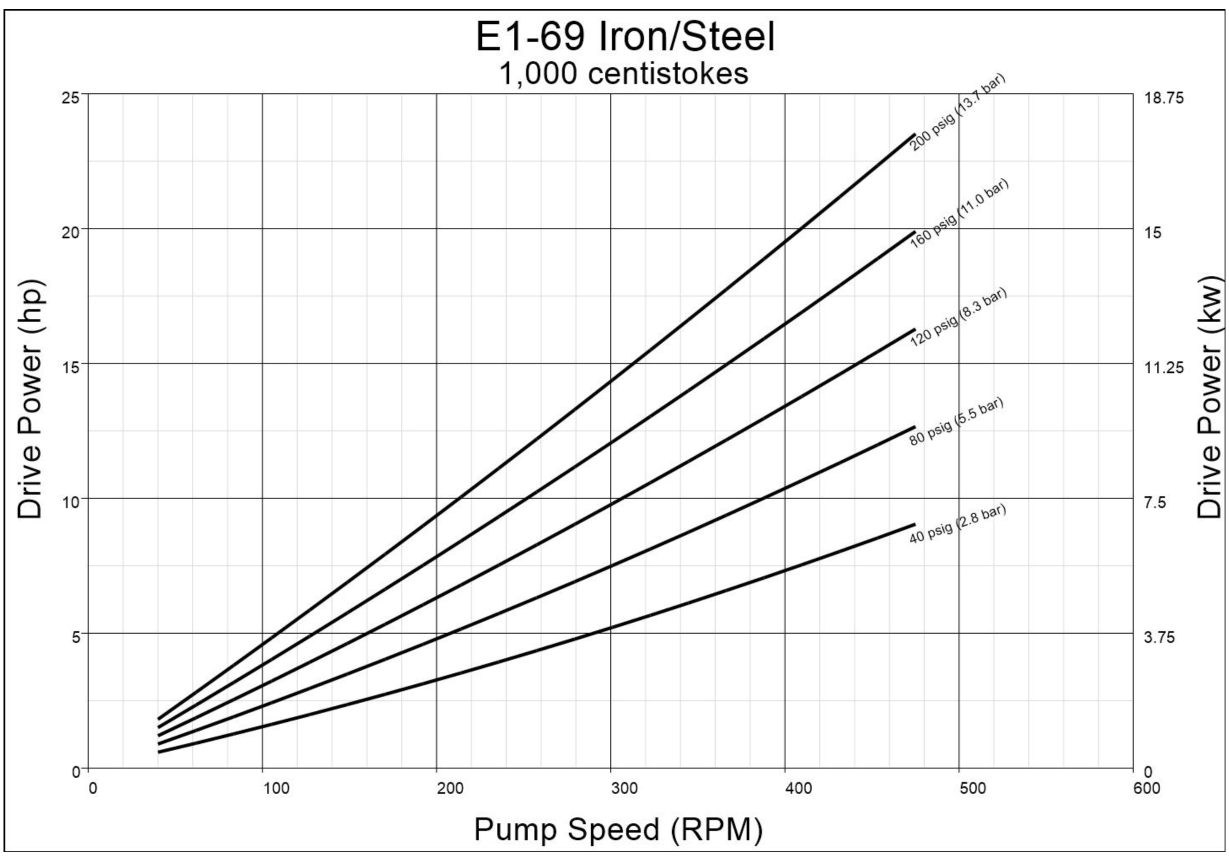
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1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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E1-69 Iron/Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
200 psig (13.7 bar)
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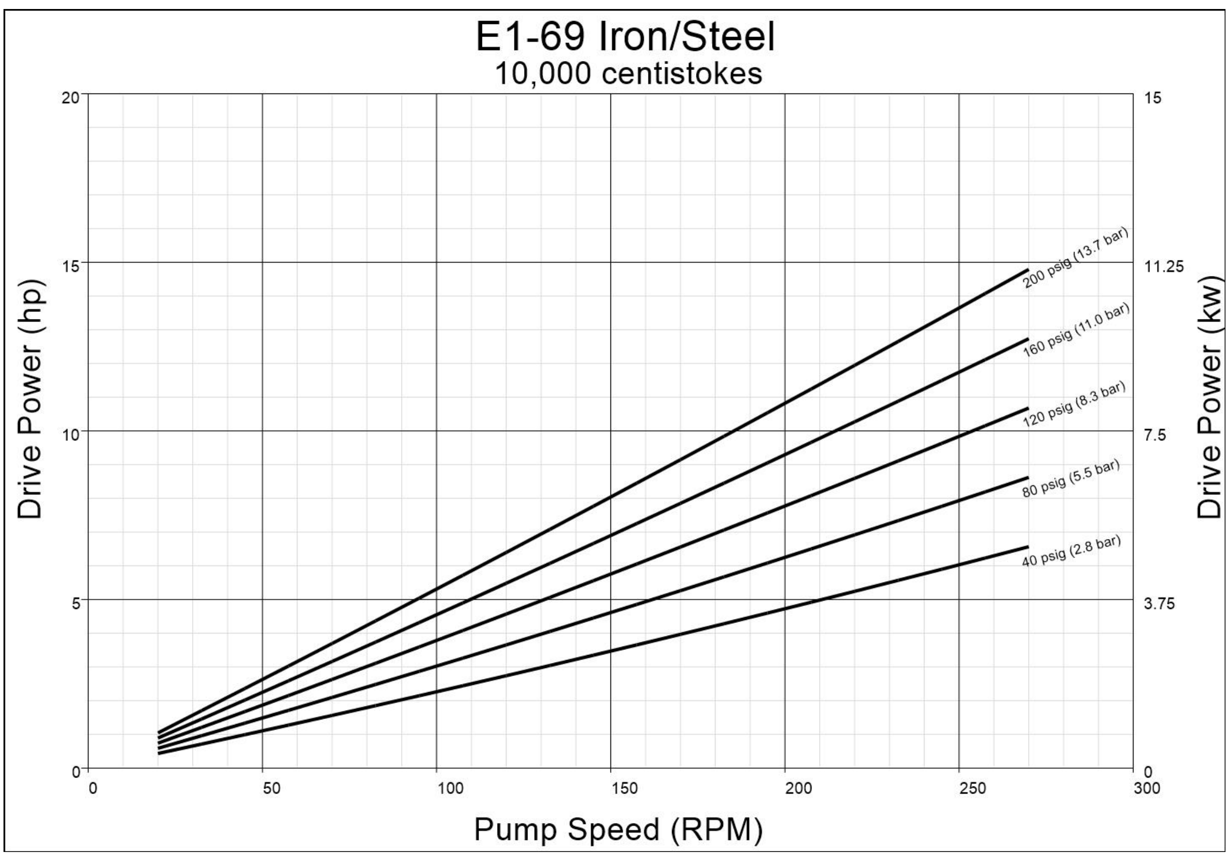
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Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
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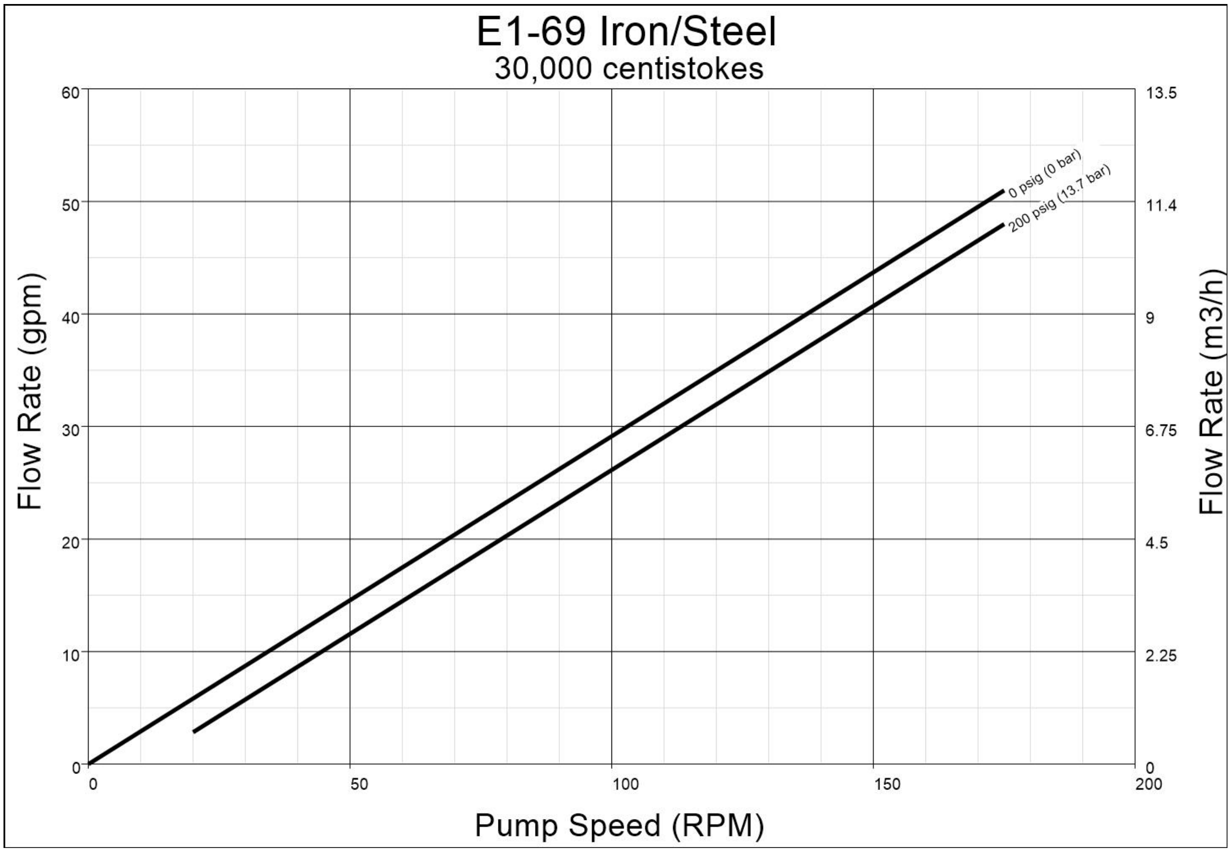
E1-69 Iron/Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
200 psig (13.7 bar)
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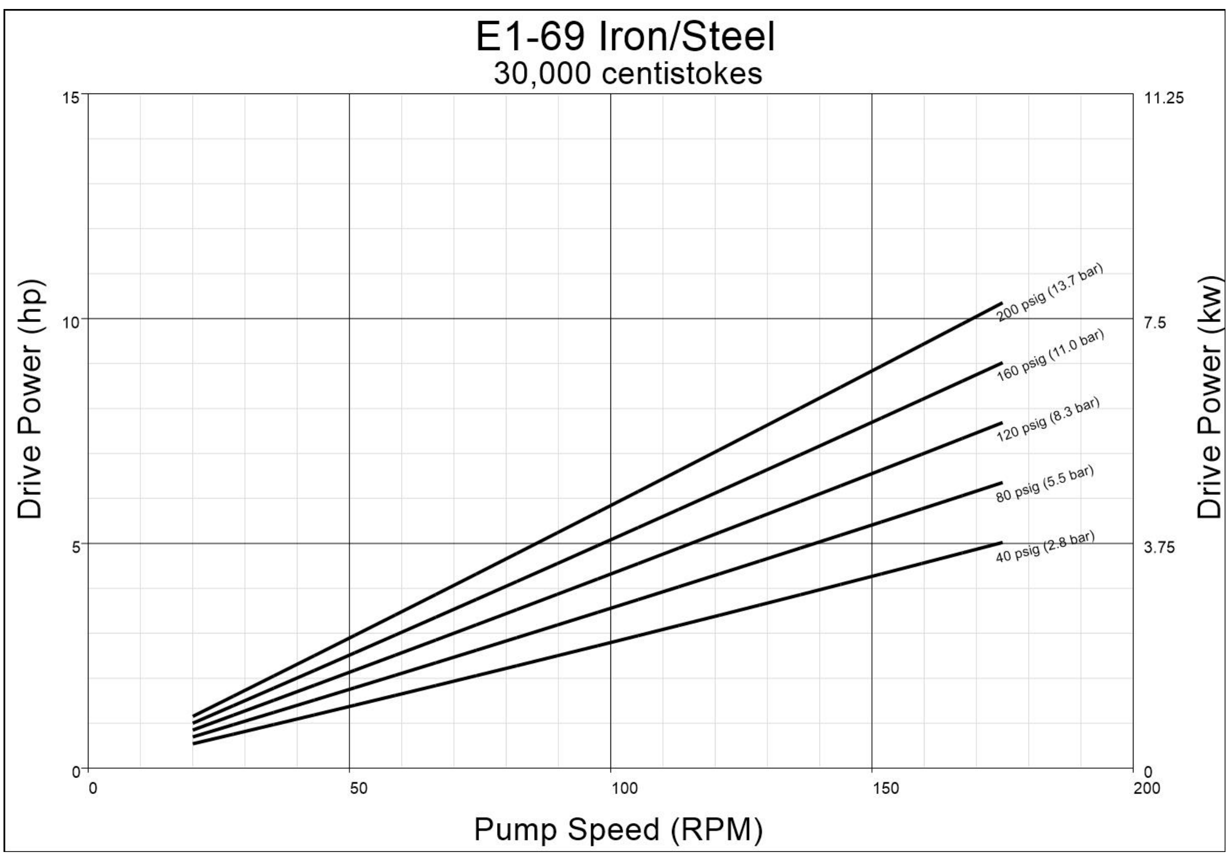
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30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
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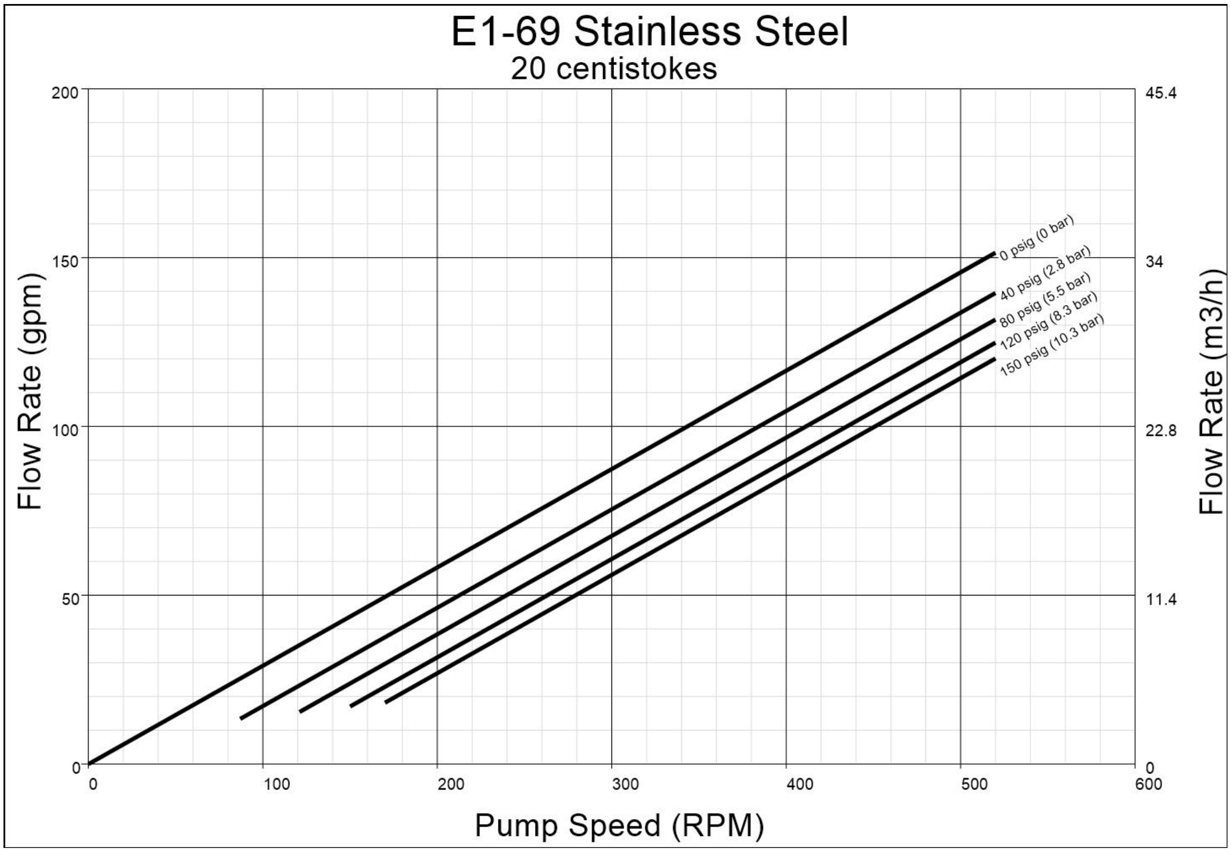
E1-69 Stainless Steel
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Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
120 psig (8.3 bar)
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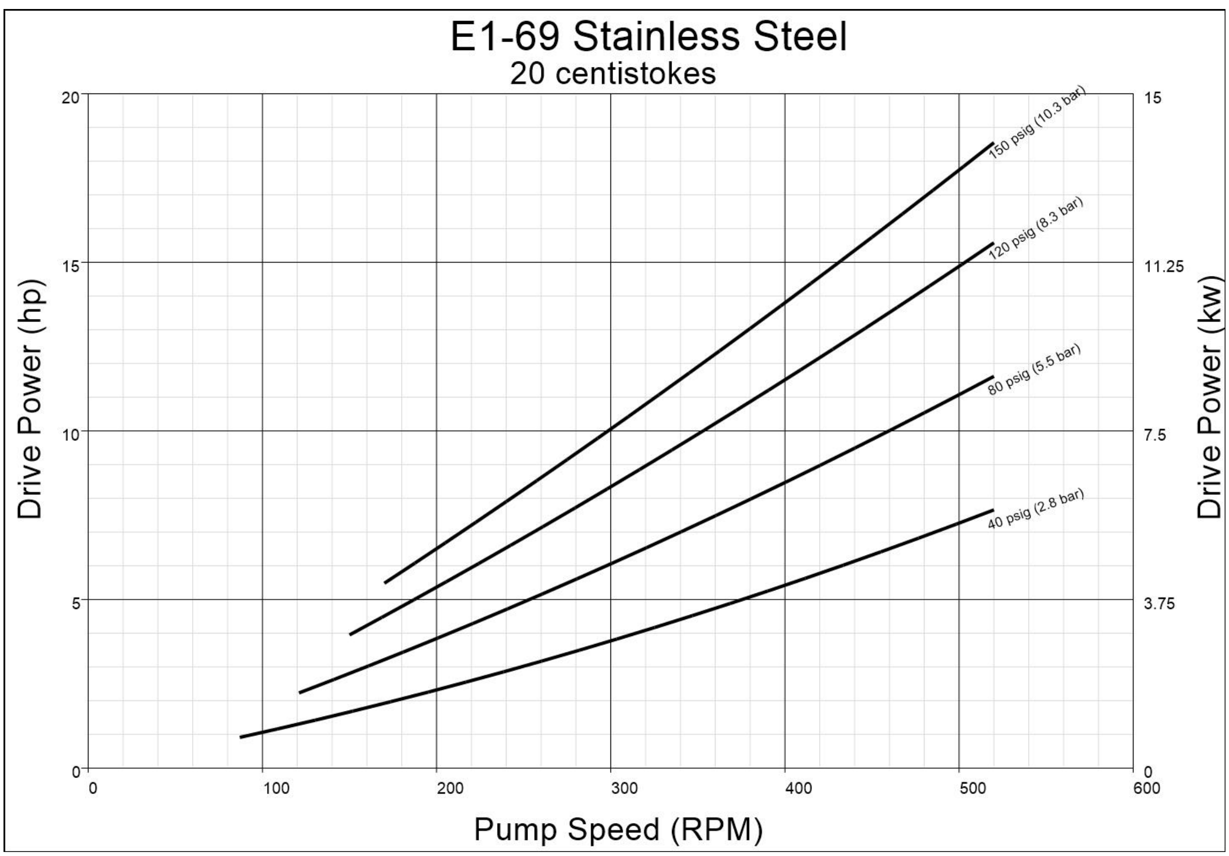
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20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
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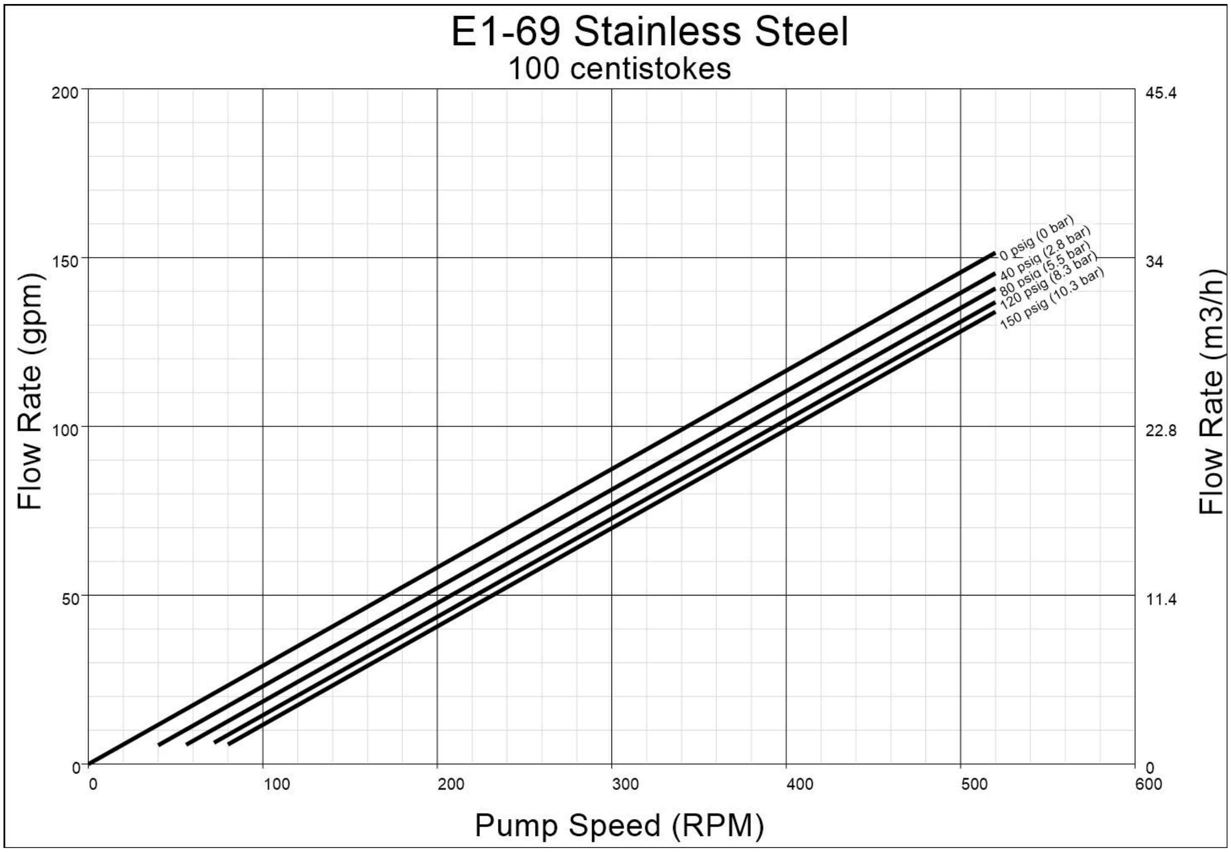
E1-69 Stainless Steel
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Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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80 psig (5.5 bar)
120 psig (8.3 bar)
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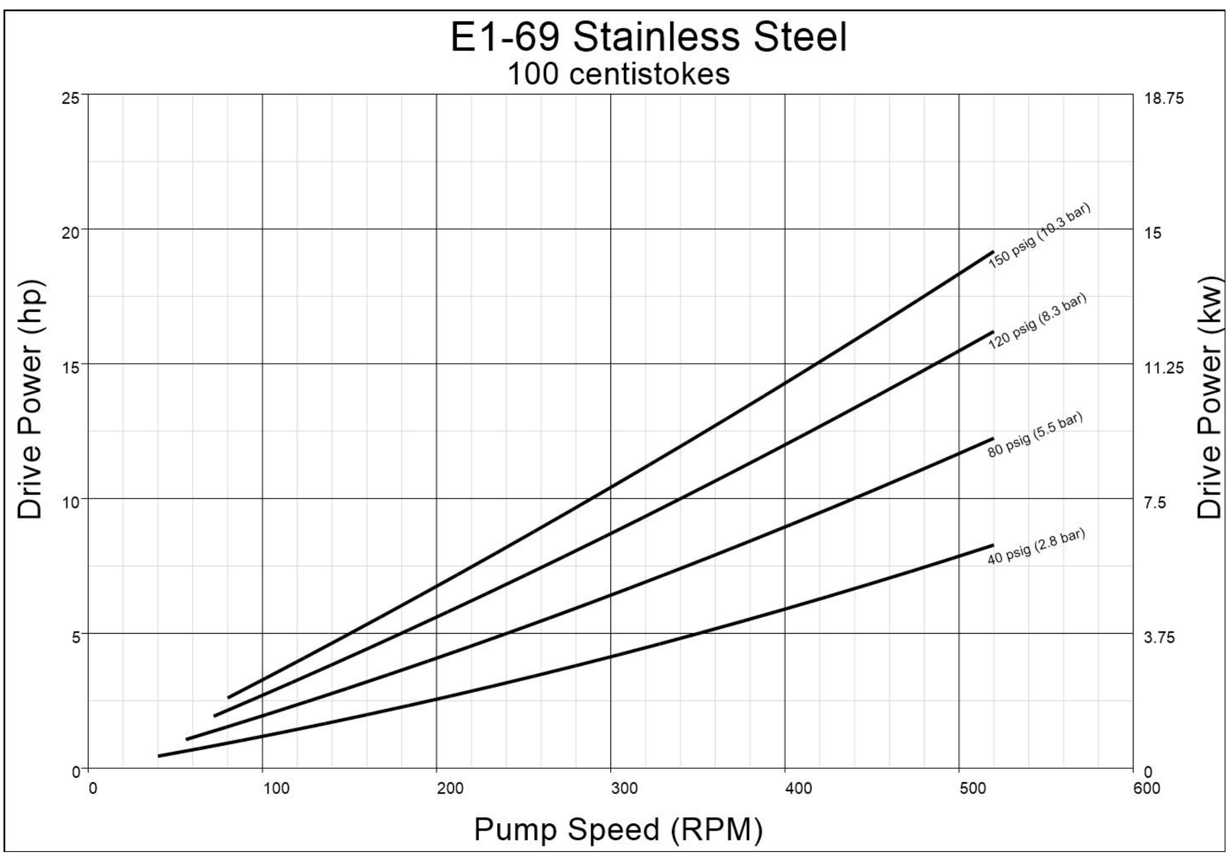
E1-69 Stainless Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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80 psig (5.5 bar)
40 psig (2.8 bar)
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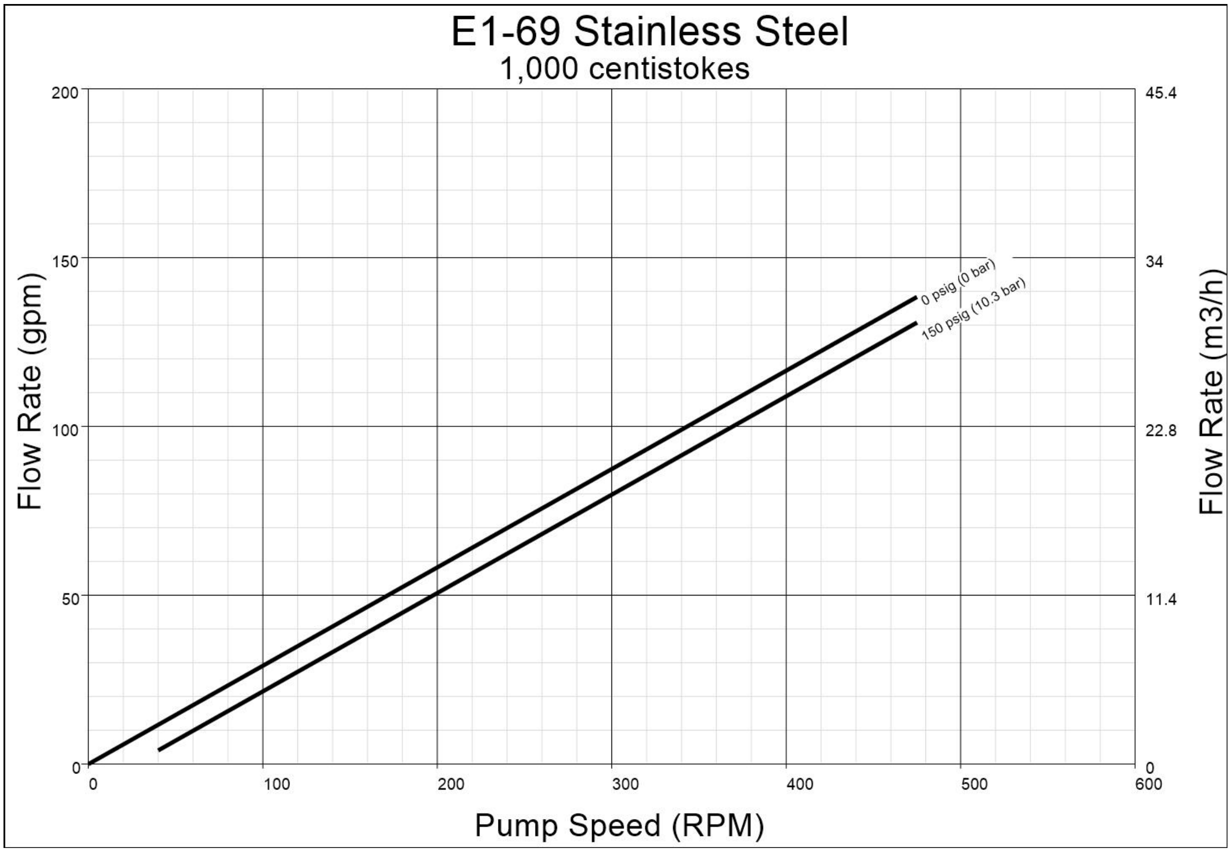
E1-69 Stainless Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
150 psig (10.3 bar)
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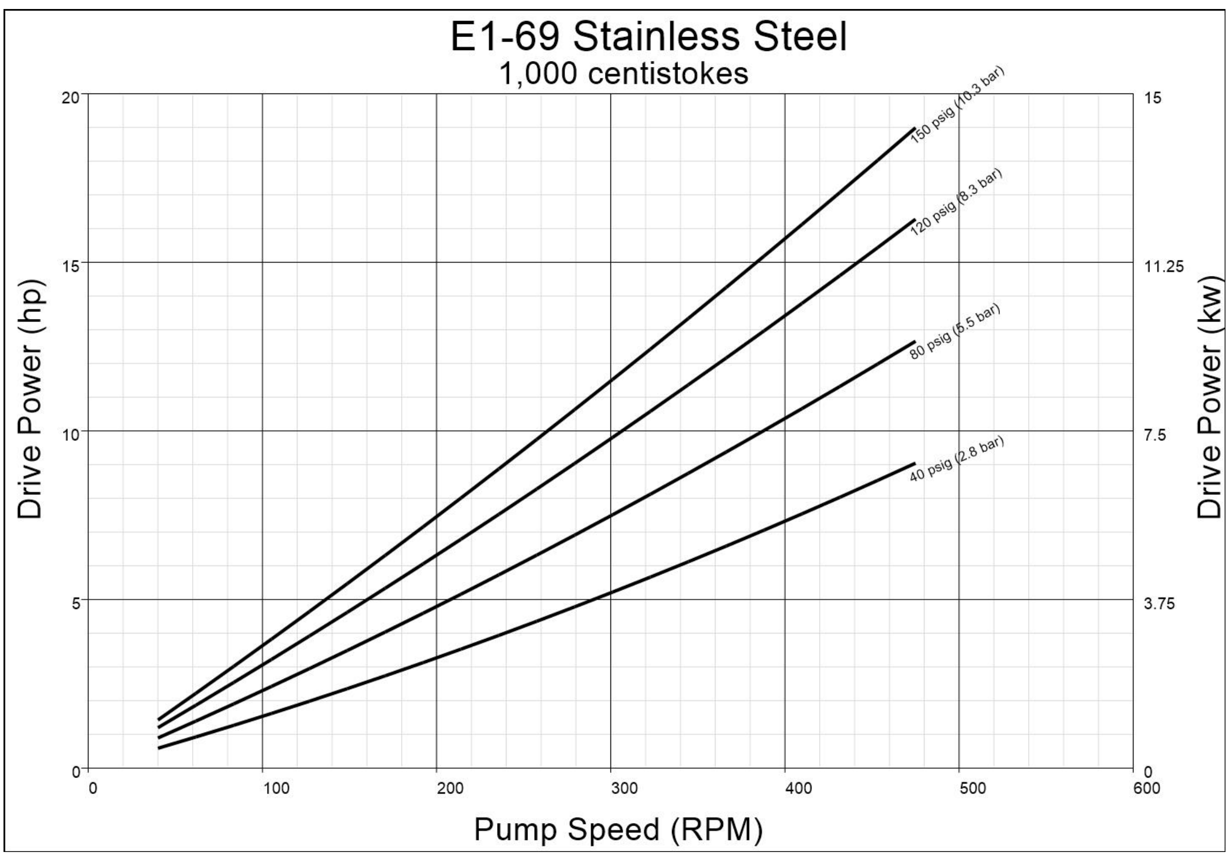
E1-69 Stainless Steel
1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
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80 psig (5.5 bar)
40 psig (2.8 bar)
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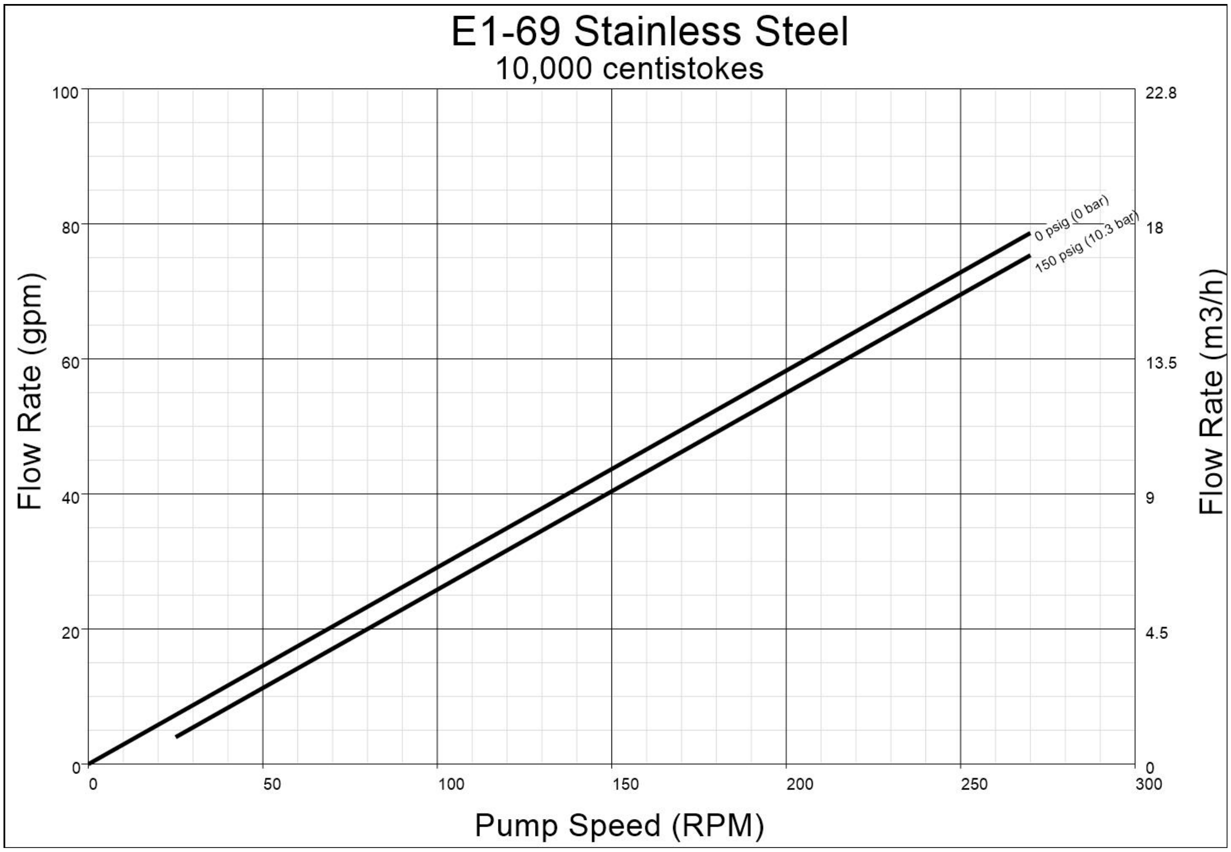
E1-69 Stainless Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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150 psig (10.3 bar)
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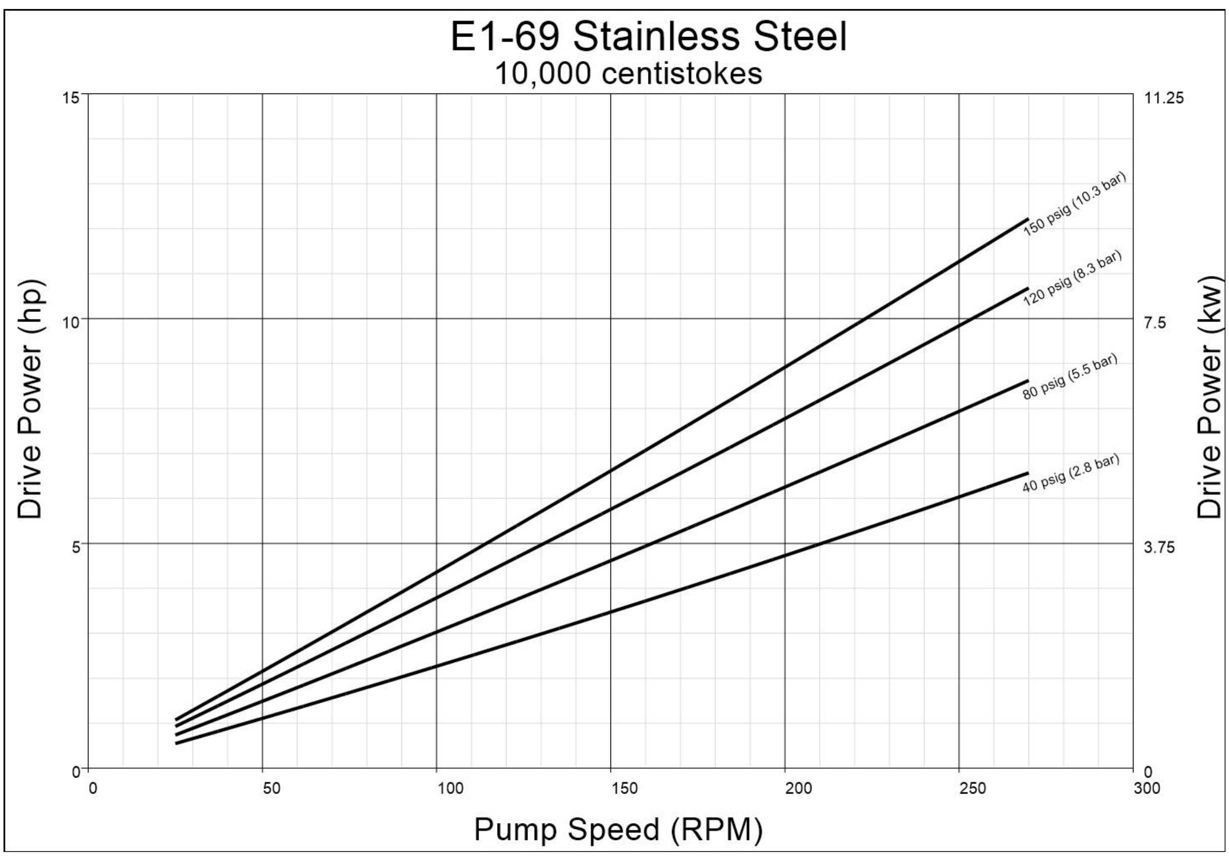
E1-69 Stainless Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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80 psig (5.5 bar)
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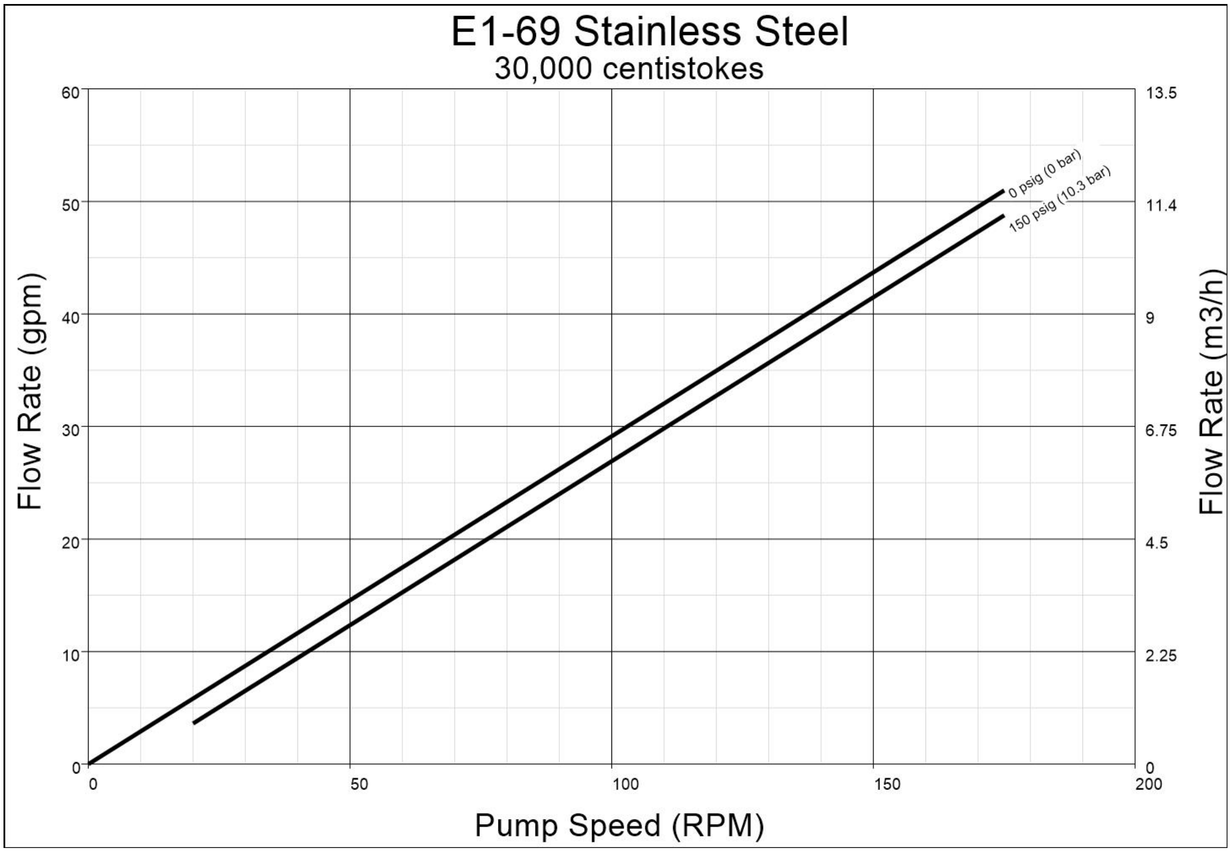
E1-69 Stainless Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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150 psig (10.3 bar)
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2.25
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11.4
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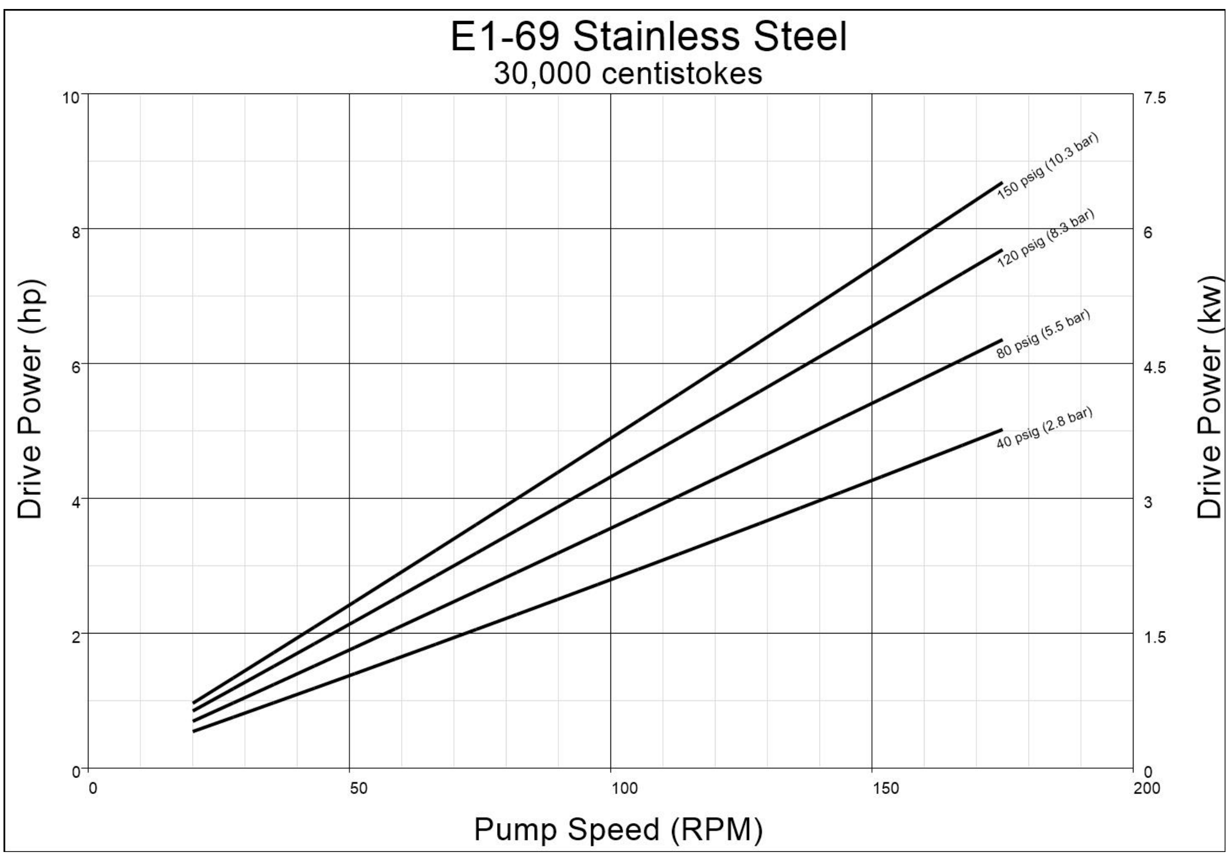
E1-69 Stainless Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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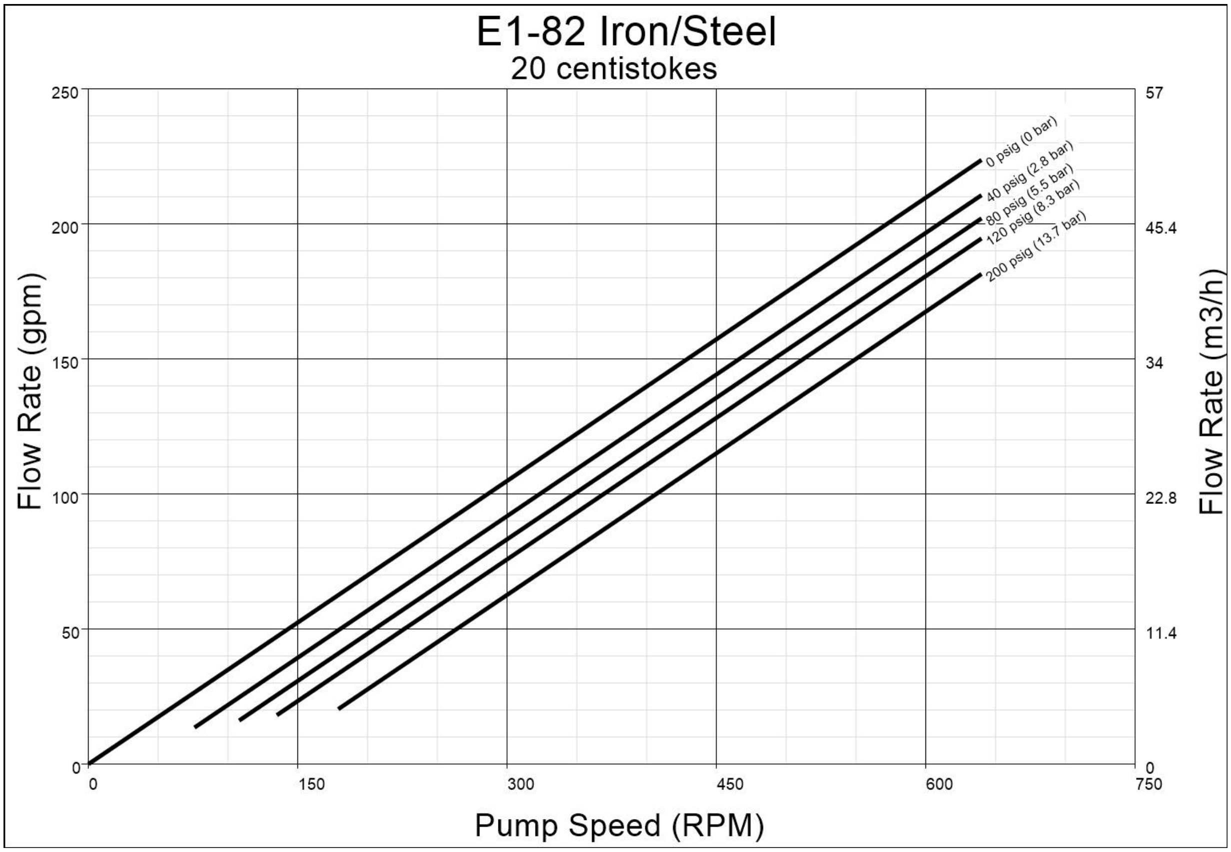
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Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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80 psig (5.5 bar)
120 psig (8.3 bar)
200 psig (13.7 bar)
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250
11.4
22.8
34
45.4
57
150
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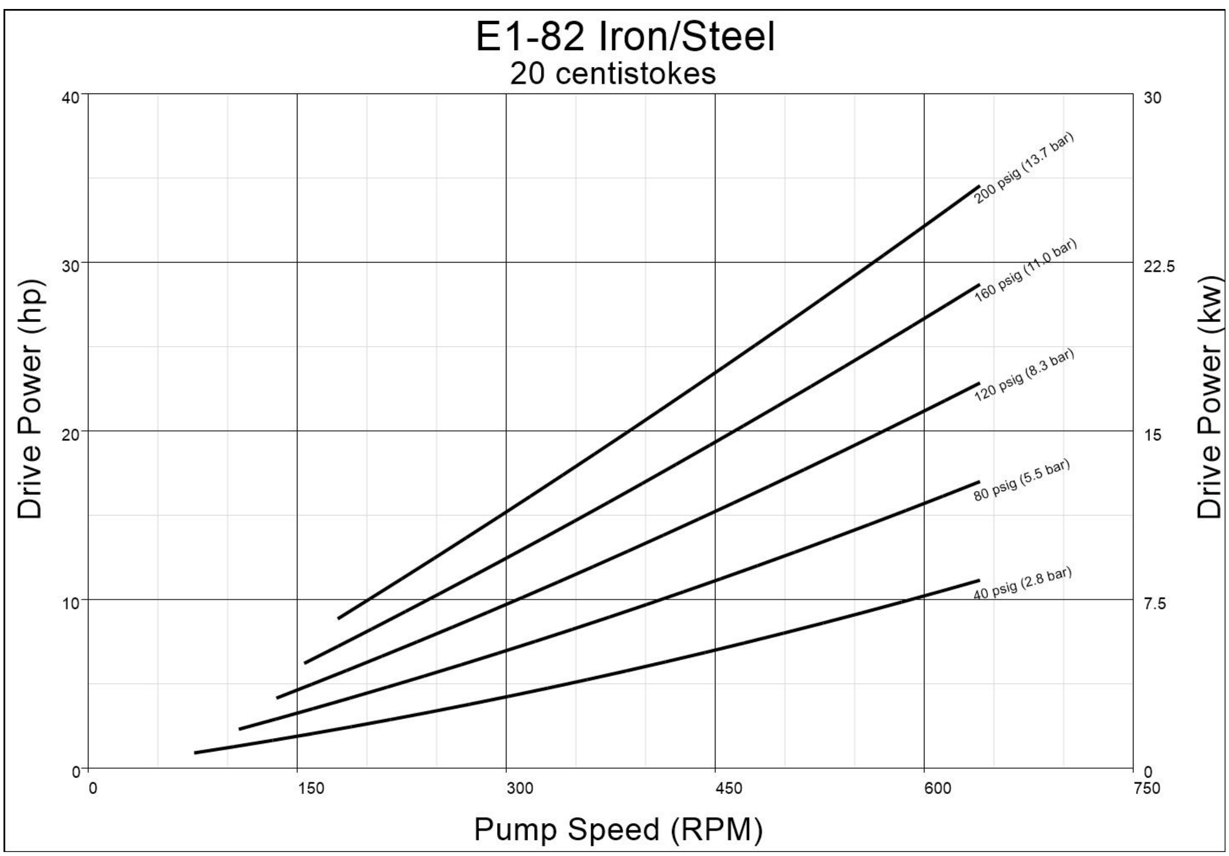
E1-82 Iron/Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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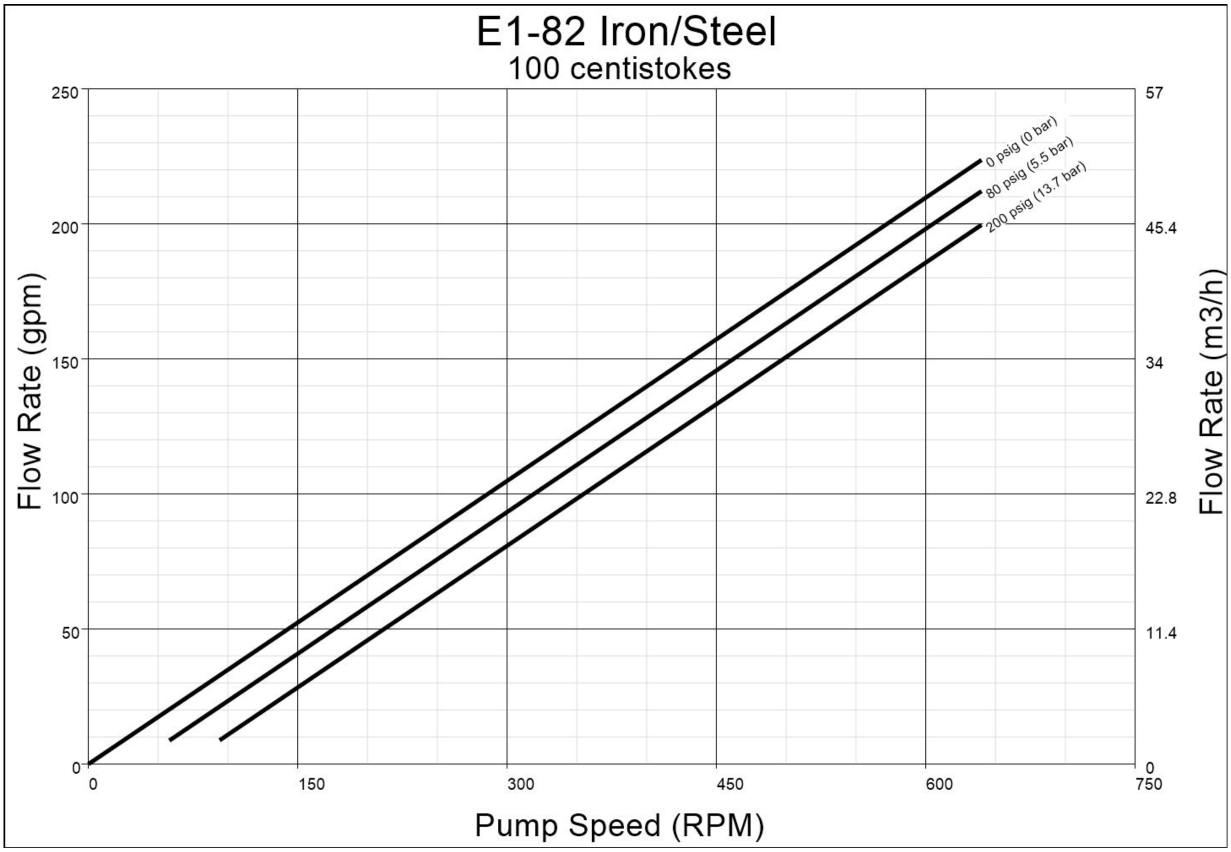
E1-82 Iron/Steel
100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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200 psig (13.7 bar)
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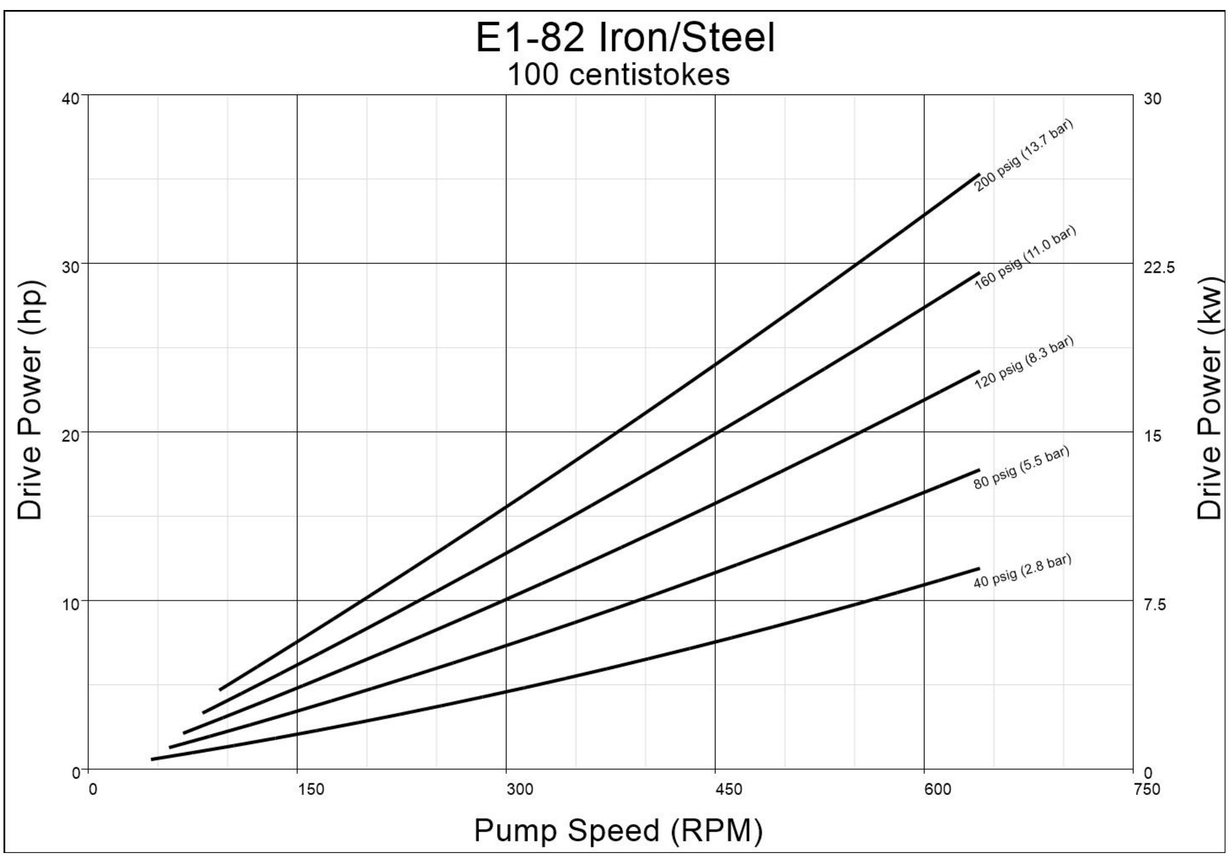
E1-82 Iron/Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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E1-82 Iron/Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
80 psig (5.5 bar)
200 psig (13.7 bar)
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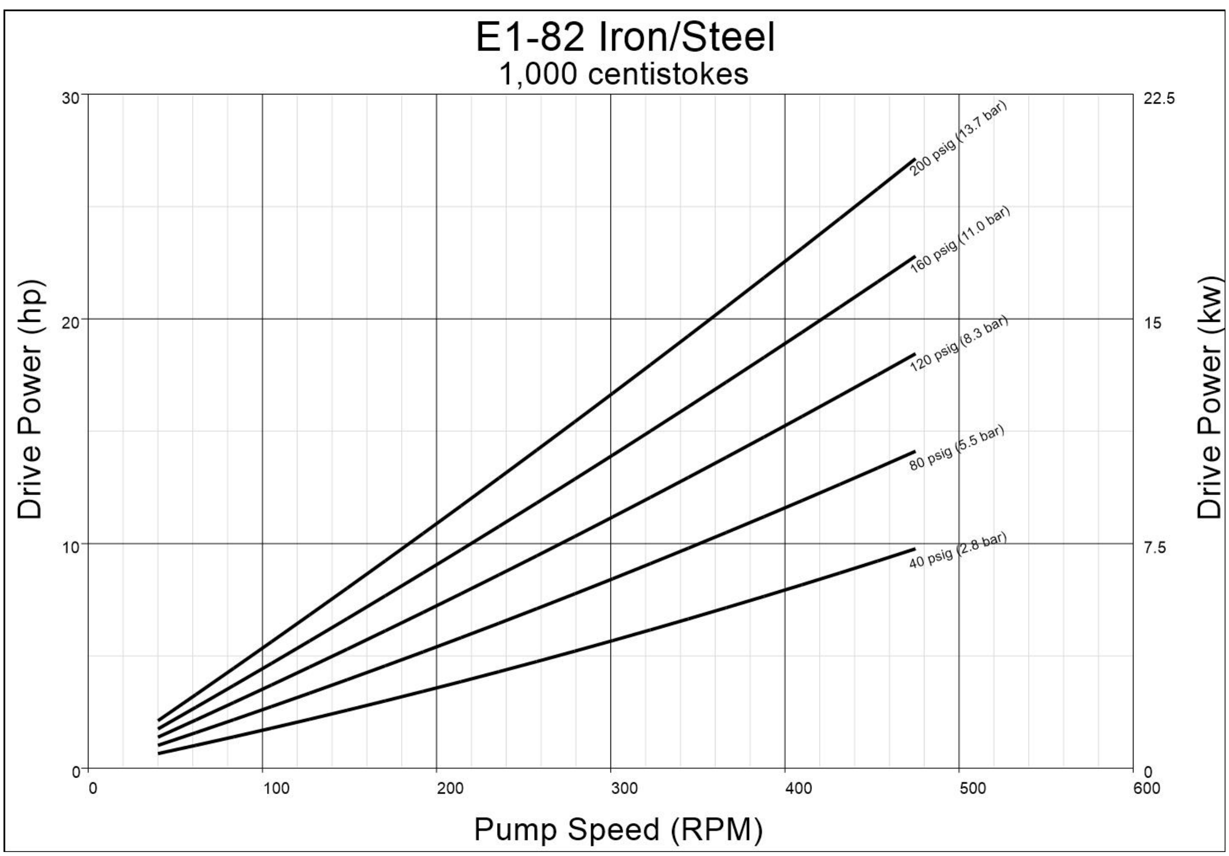
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Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
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E1-82 Iron/Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
200 psig (13.7 bar)
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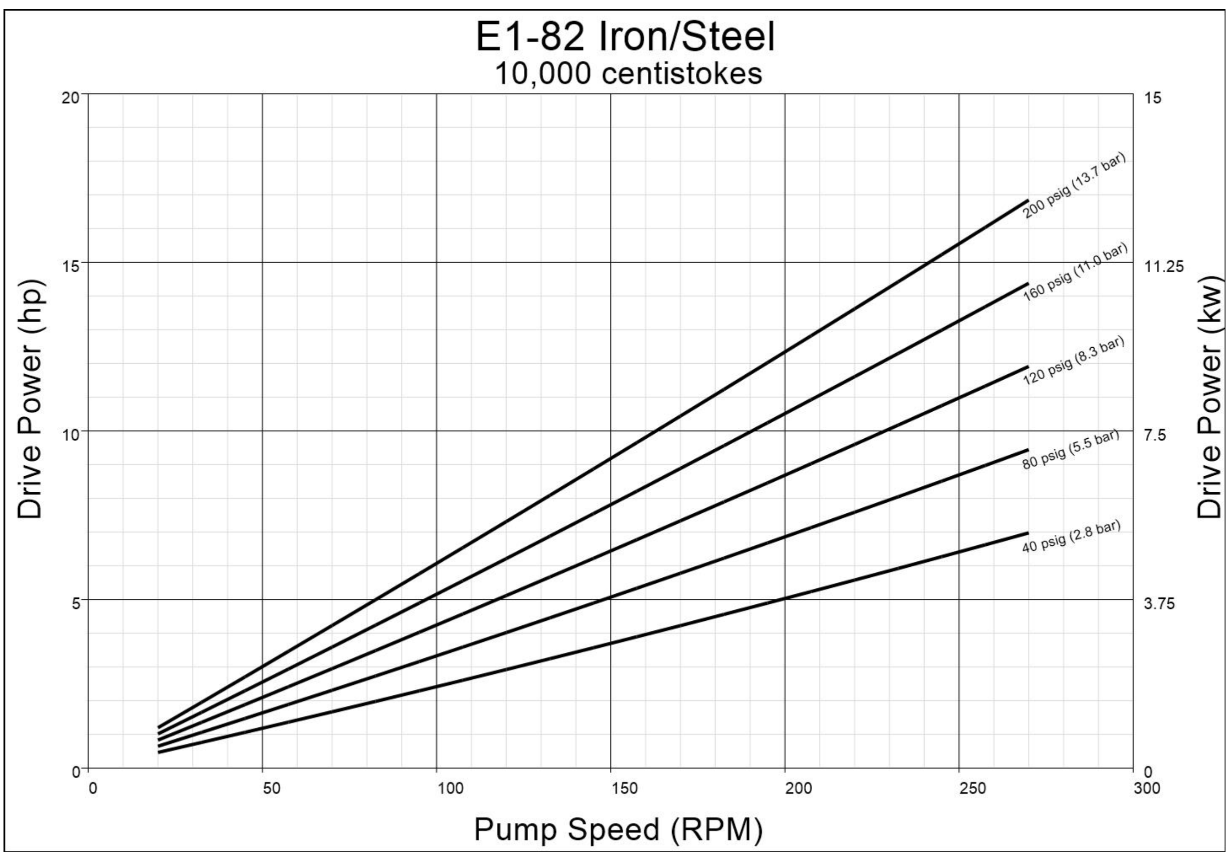
E1-82 Iron/Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
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120 psig (8.3 bar)
80 psig (5.5 bar)
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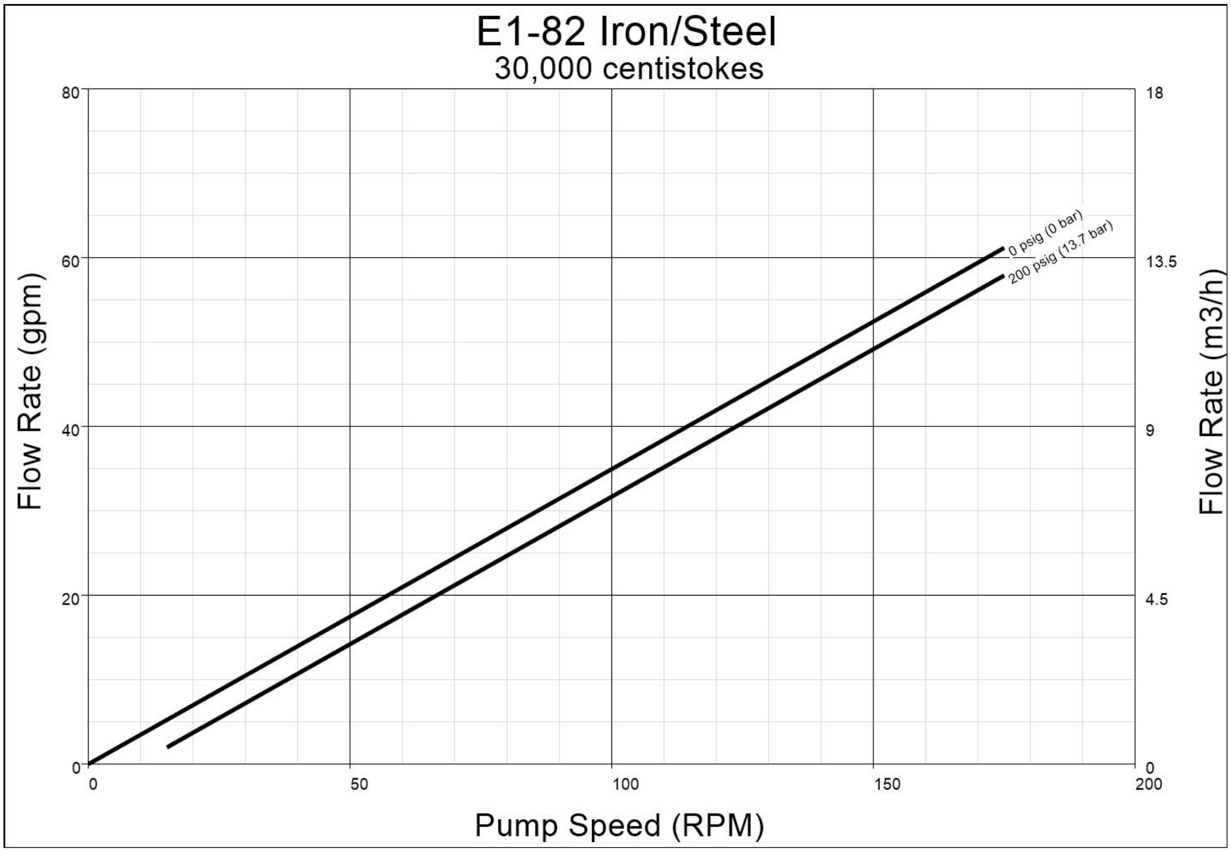
E1-82 Iron/Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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200 psig (13.7 bar)
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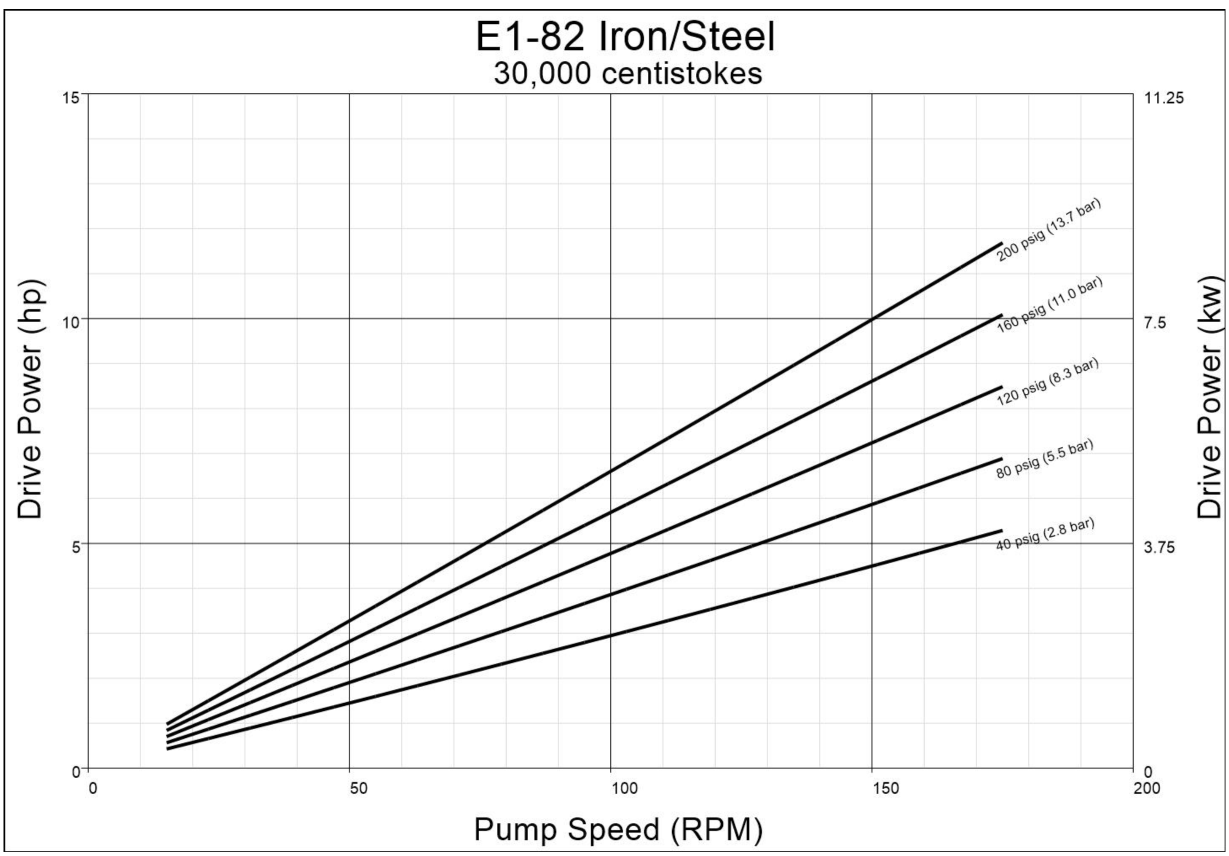
E1-82 Iron/Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
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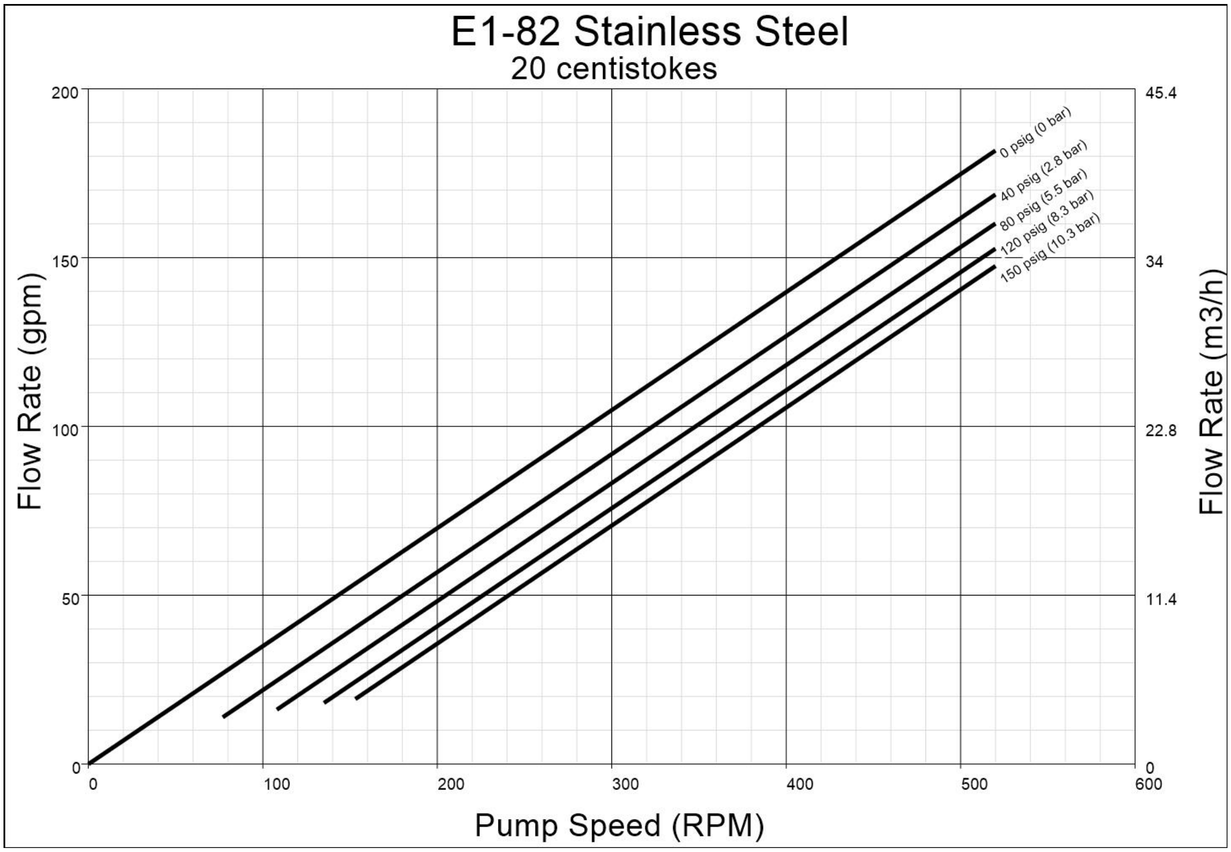
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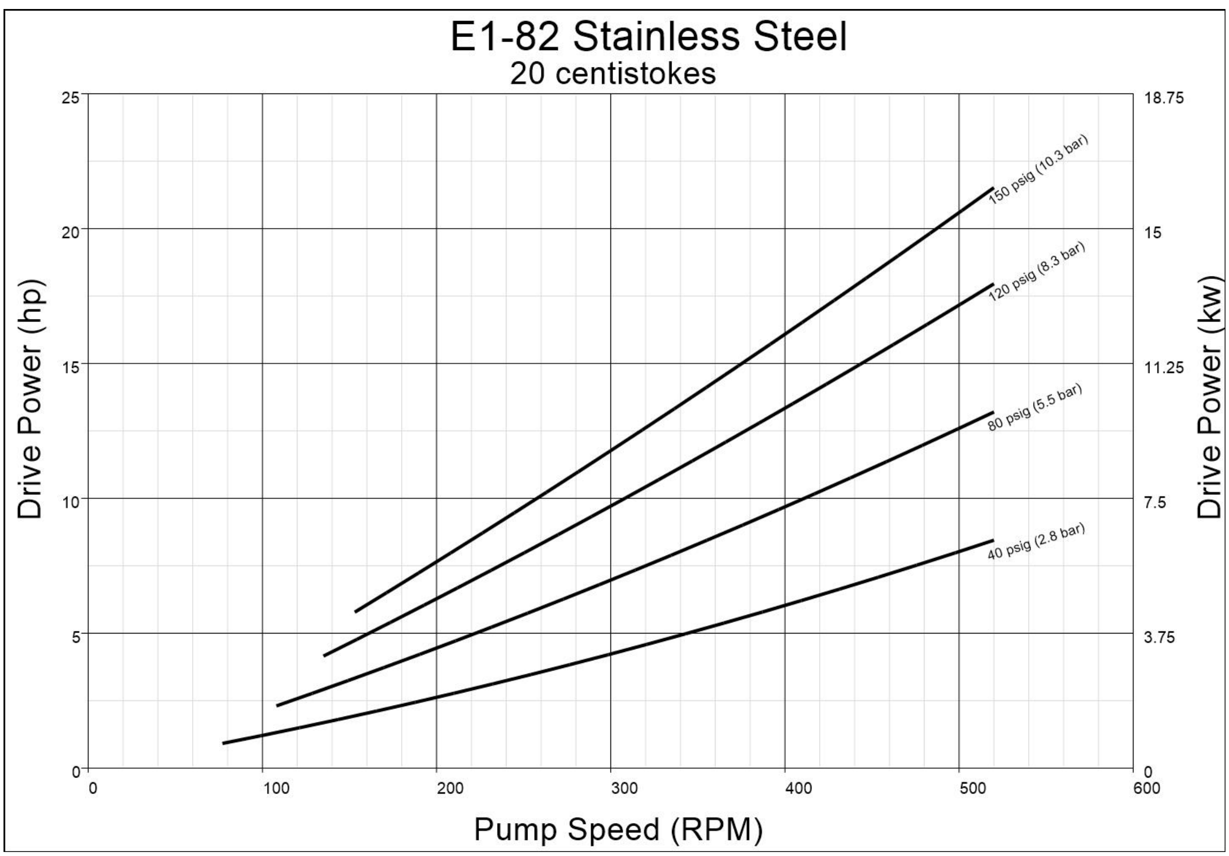
20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
120 psig (8.3 bar)
150 psig (10.3 bar)
0
50
100
150
200
11.4
22.8
34
45.4
300
400
500
600


E1-82 Stainless Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
5
10
15
20
25
3.75
7.5
11.25
15
18.75
100
200
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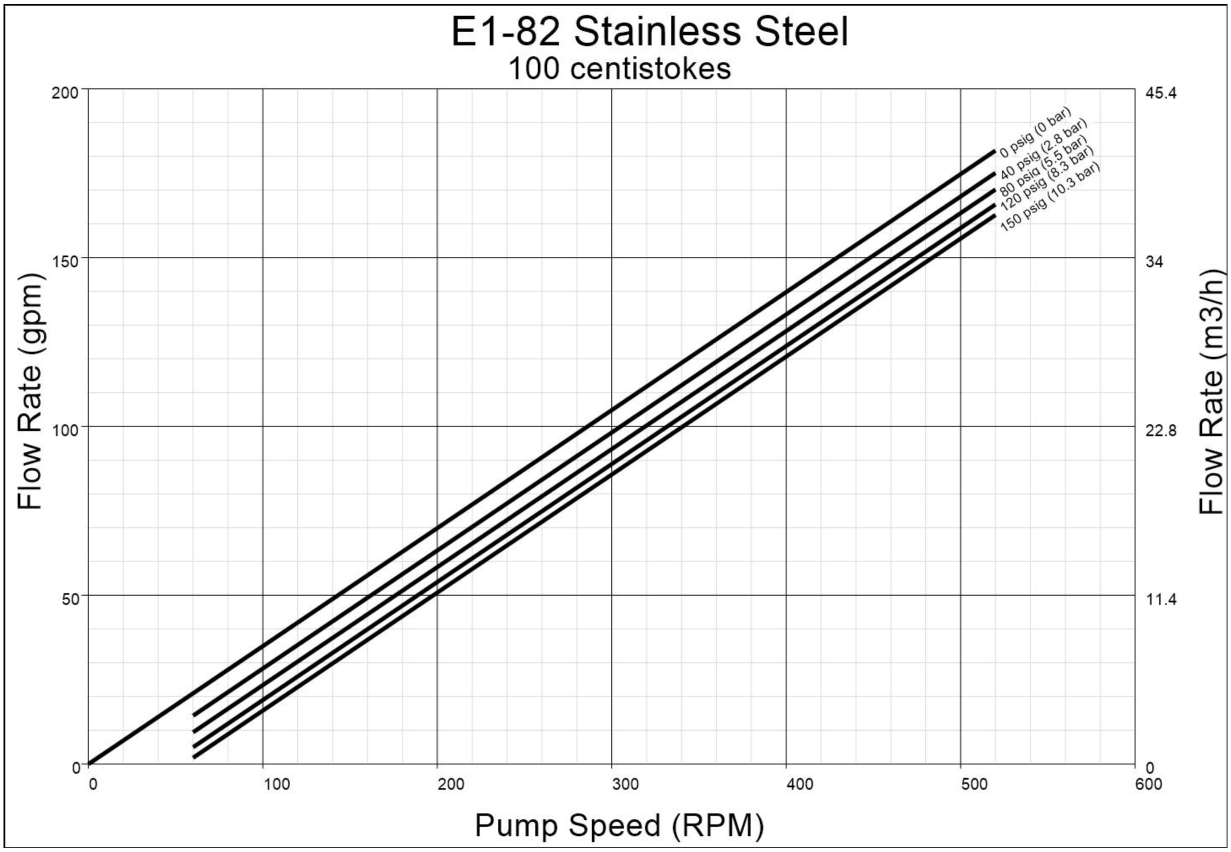
400
500
600


E1-82 Stainless Steel
100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
120 psig (8.3 bar)
150 psig (10.3 bar)
200
150
100
50
0
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34
22.8
11.4
0
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200
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400
500
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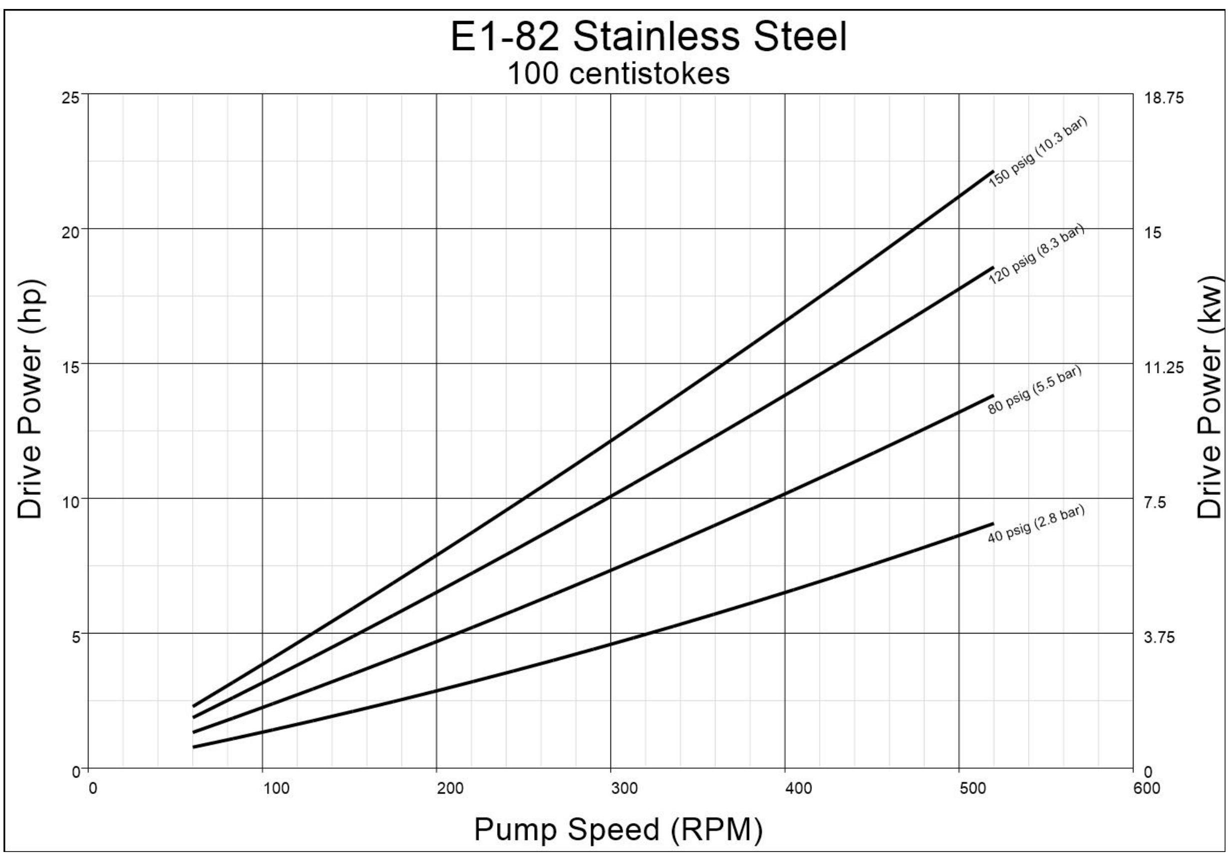
E1-82 Stainless Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
25
20
15
10
5
0
18.75
15
11.25
7.5
3.75
0
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200
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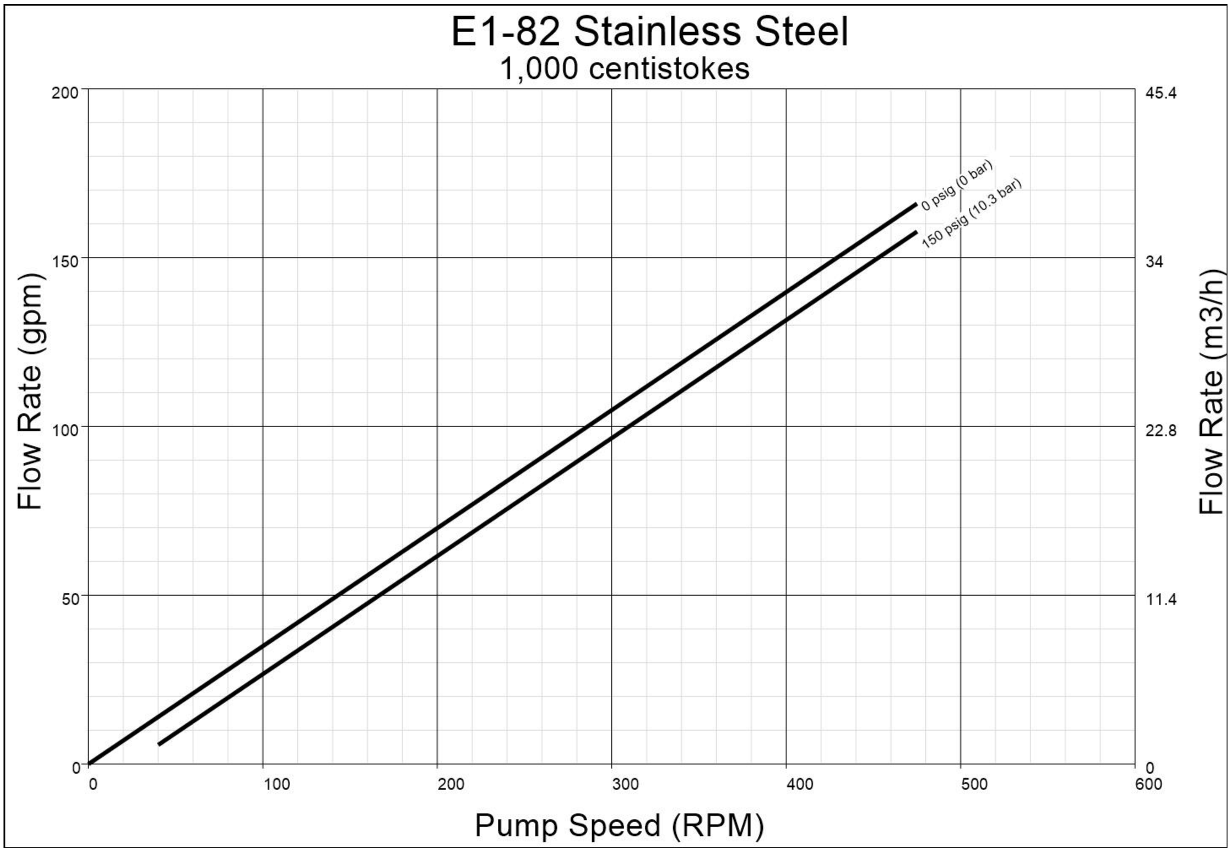
400
500
600


E1-82 Stainless Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
150 psig (10.3 bar)
0
50
100
150
200
11.4
22.8
34
45.4
0
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200
300
400
500
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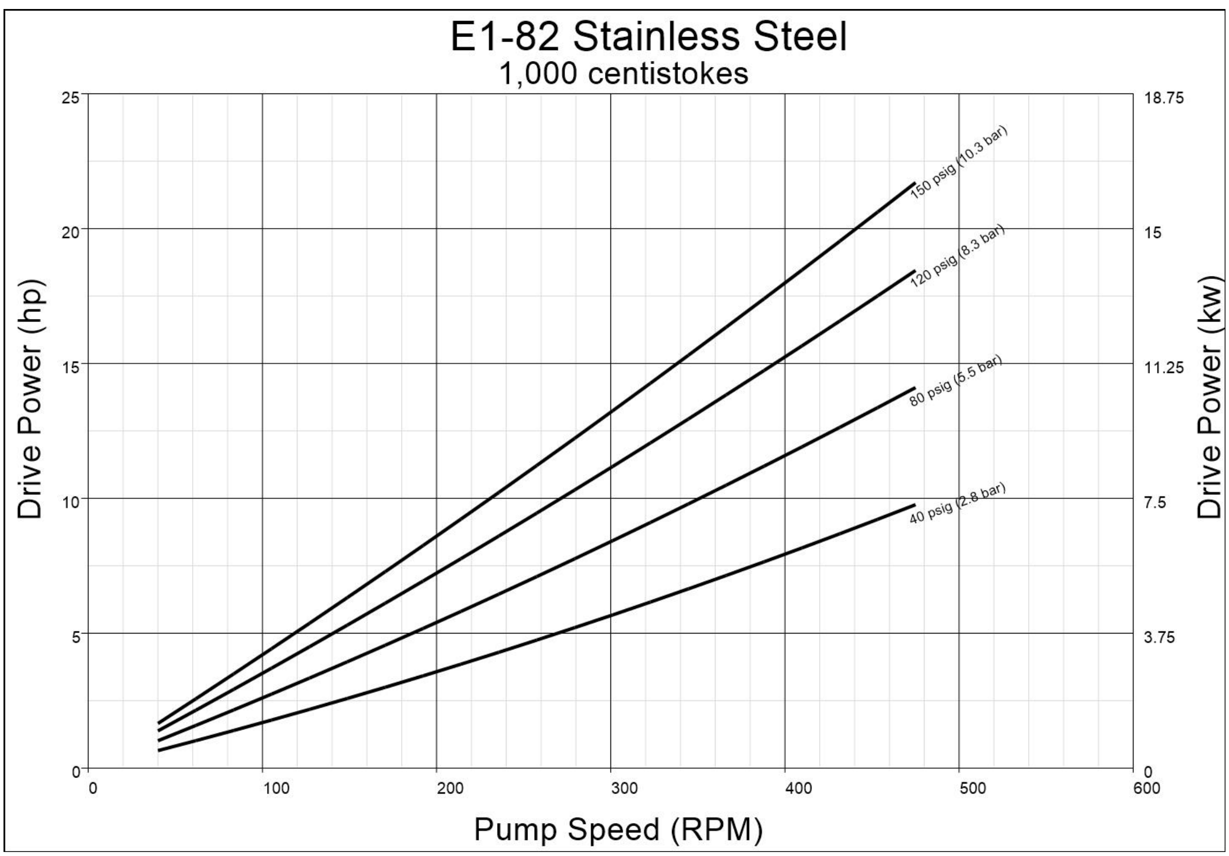
E1-82 Stainless Steel
1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
5
10
15
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25
3.75
7.5
11.25
15
18.75
0
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200
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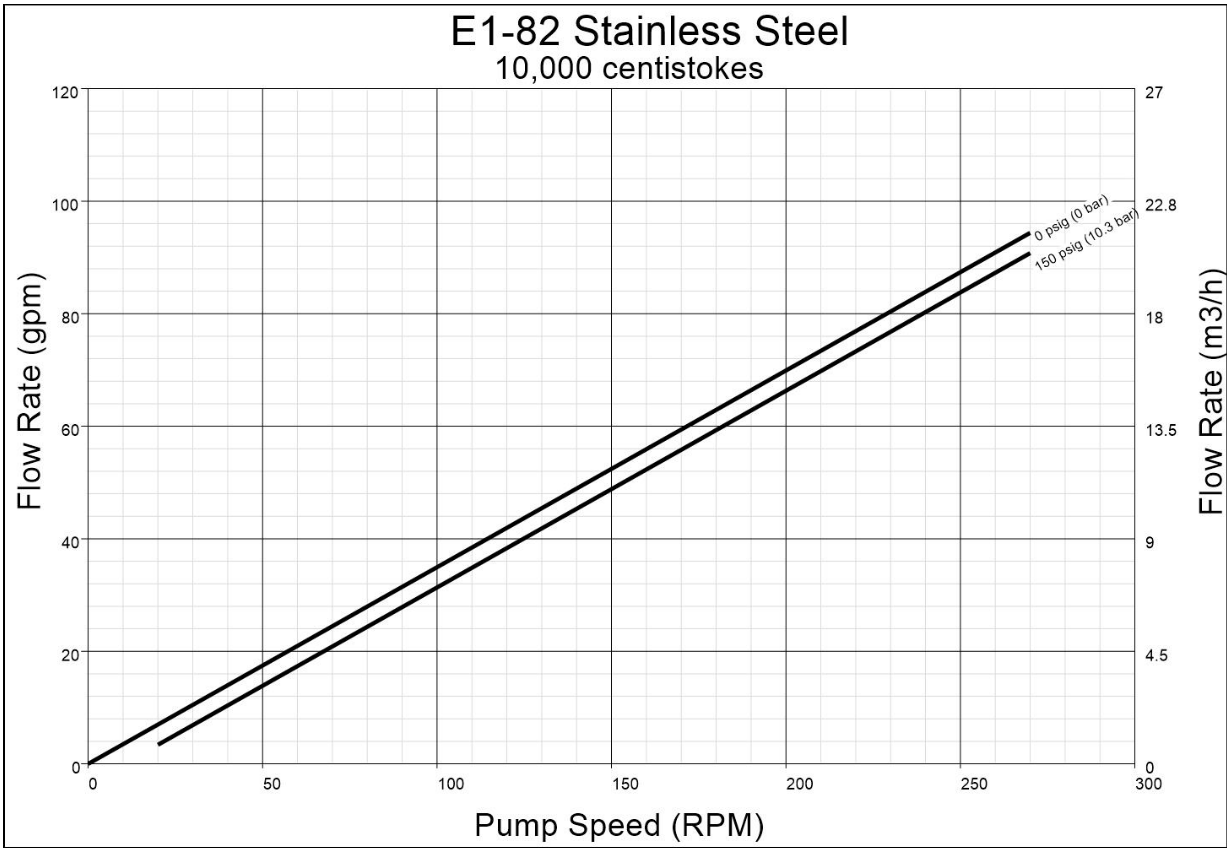
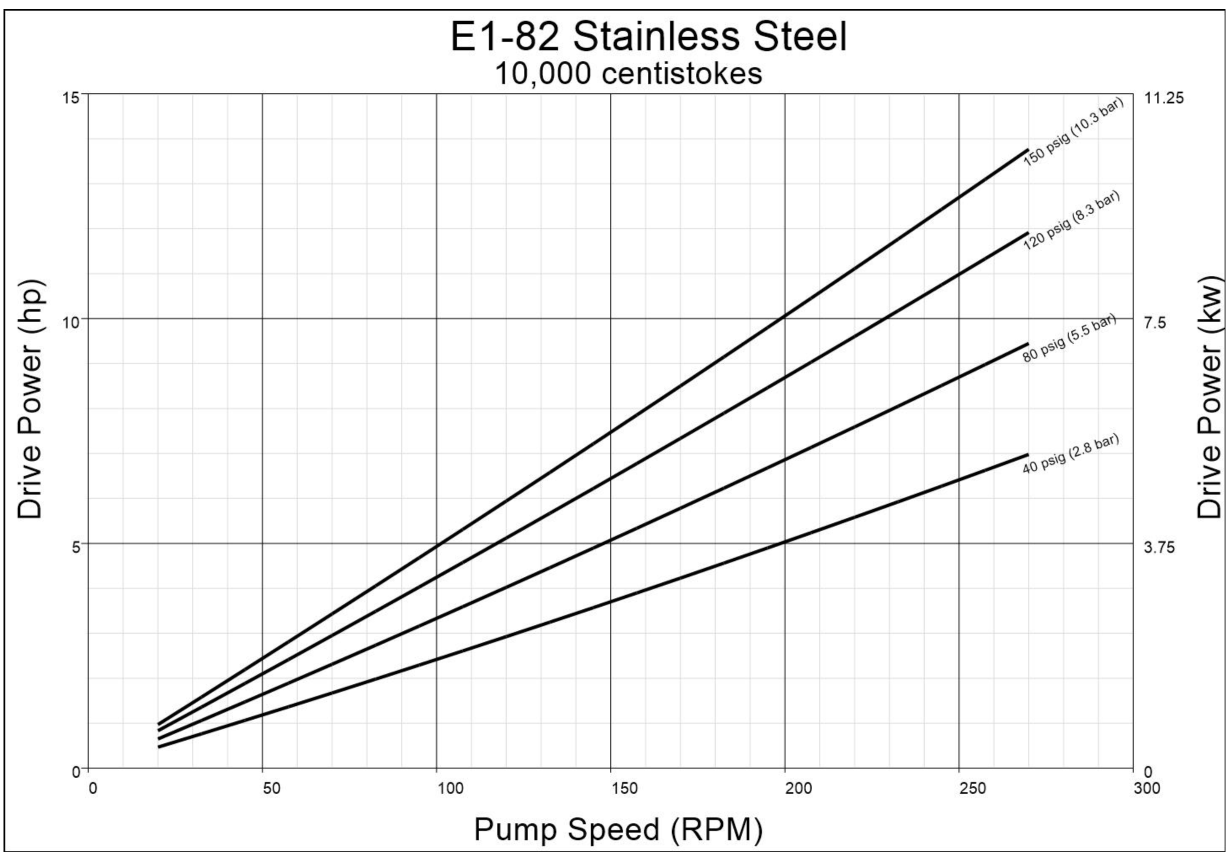
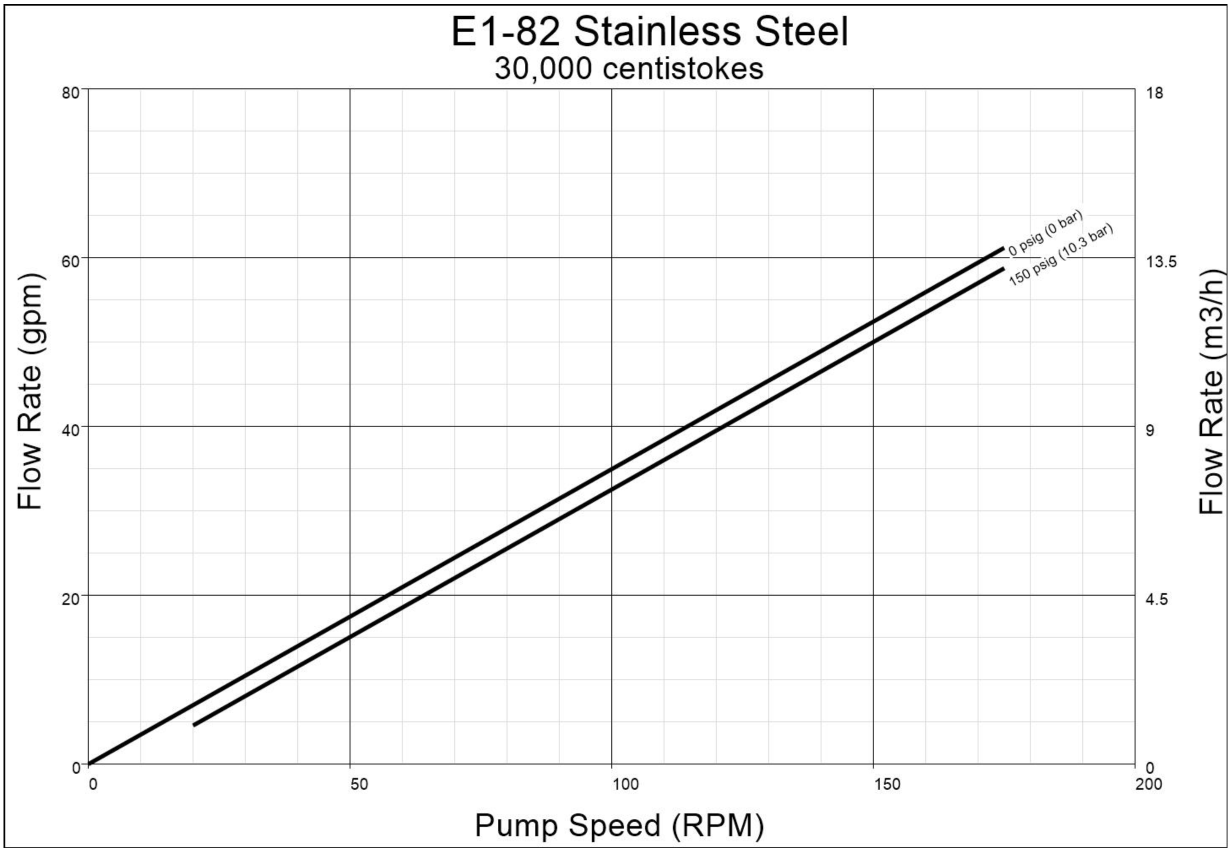
400
500
600


E1-82 Stainless Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
150 psig (10.3 bar)
0
20
40
60
80
100
120
4.5
9
13.5
18
22.8
27
50
100
150
200
250
300


E1-82 Stainless Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
5
10
15
3.75
7.5
11.25
50
100
150
200
250
300


E1-82 Stainless Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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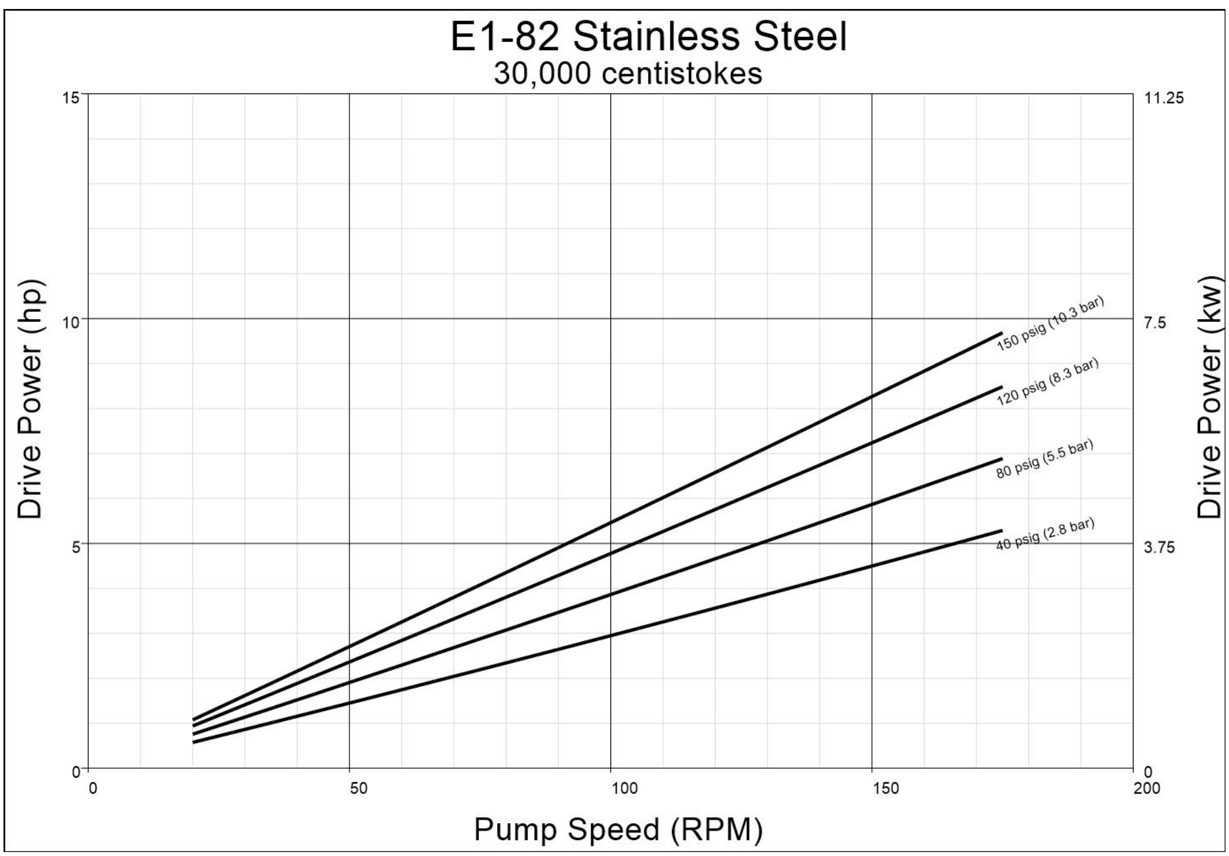
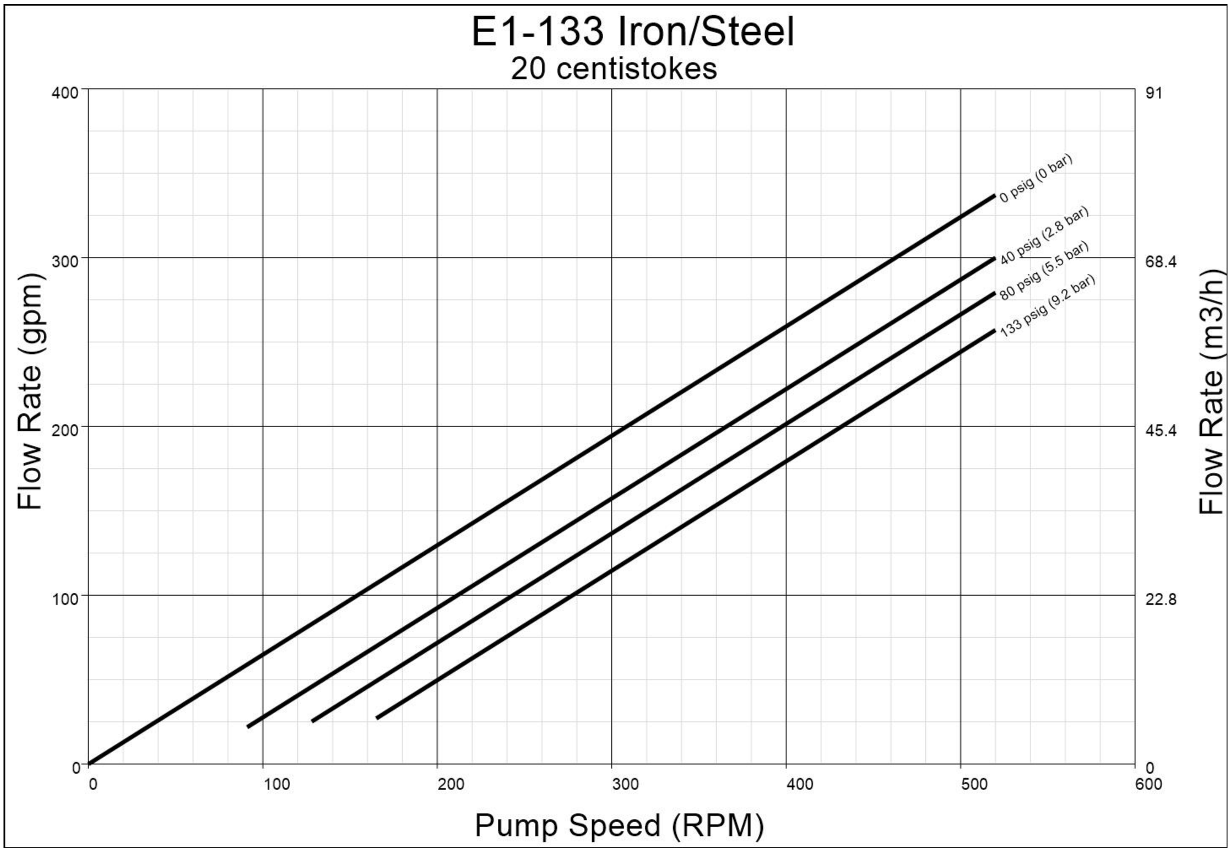
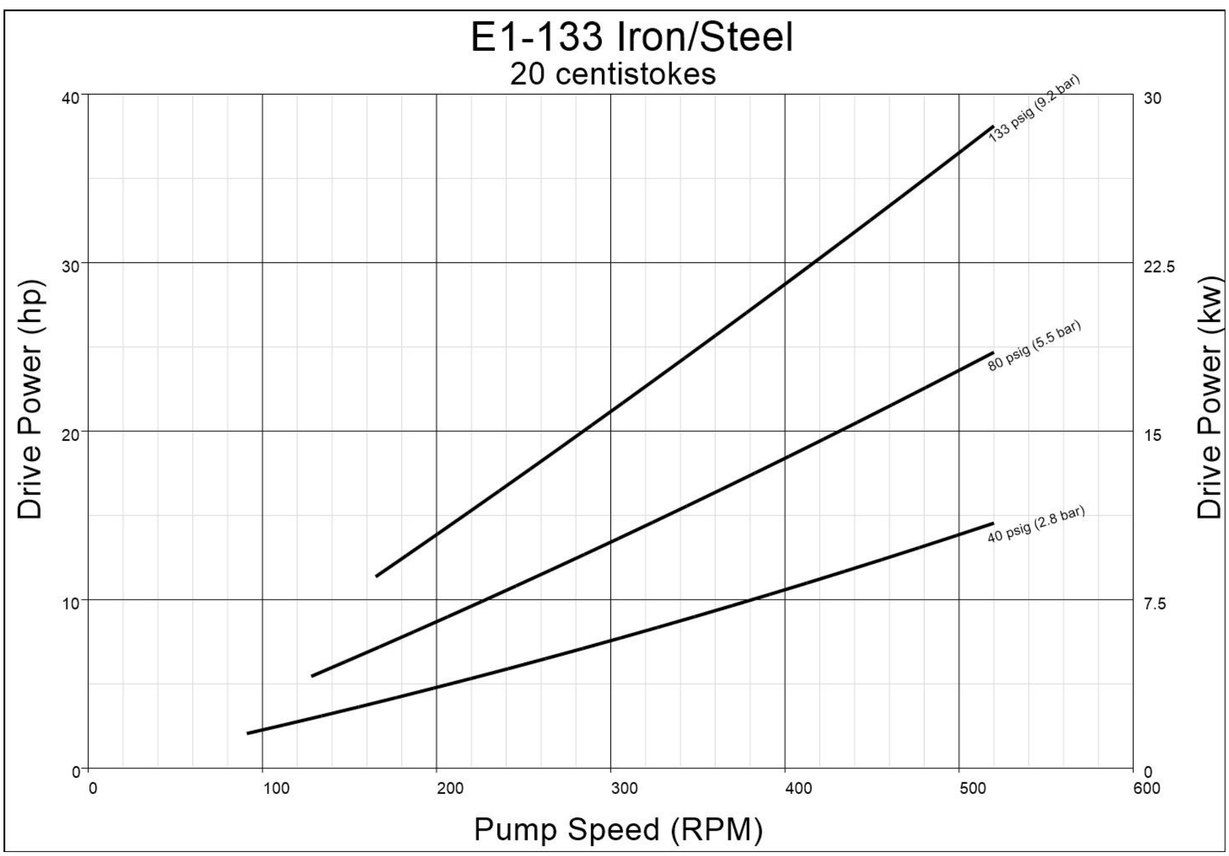
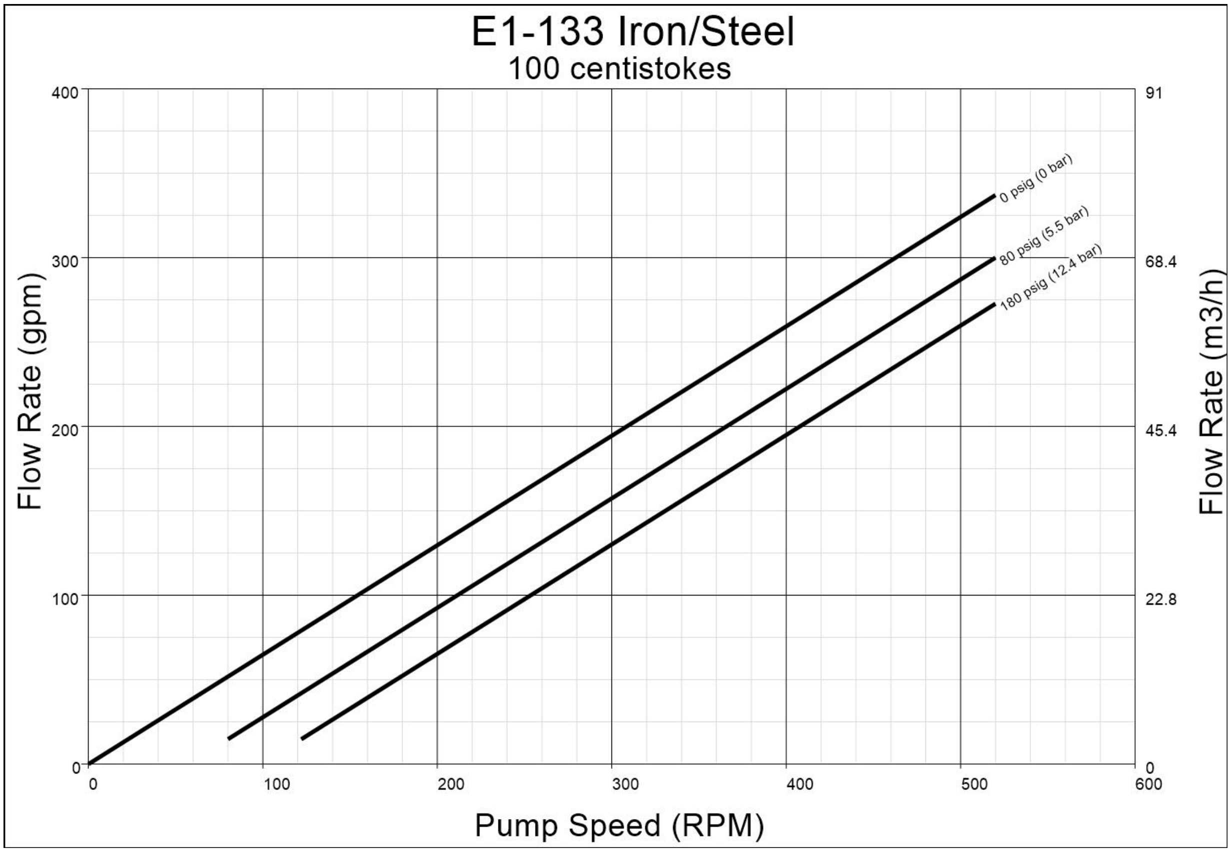
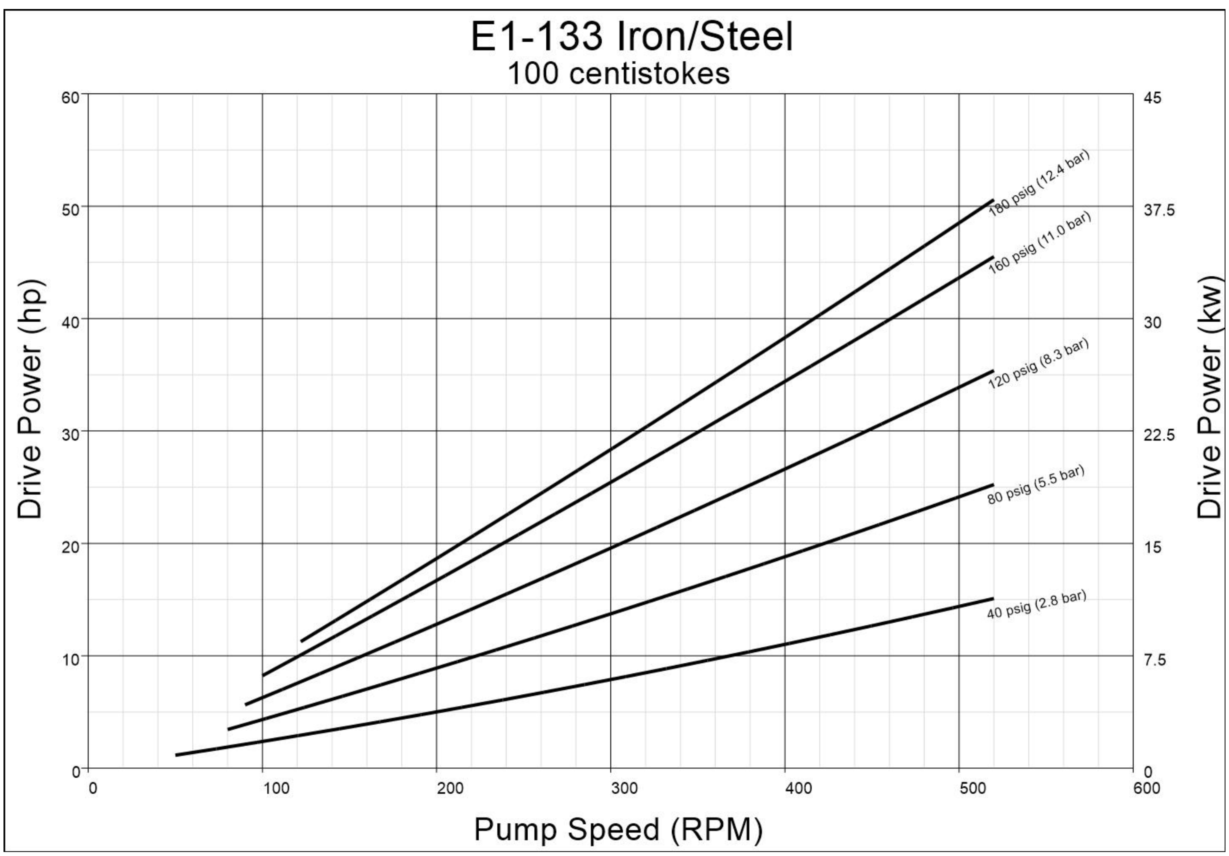
150 psig (10.3 bar)
0
20
40
60
80
4.5
9
13.5
18
50
100
150
200

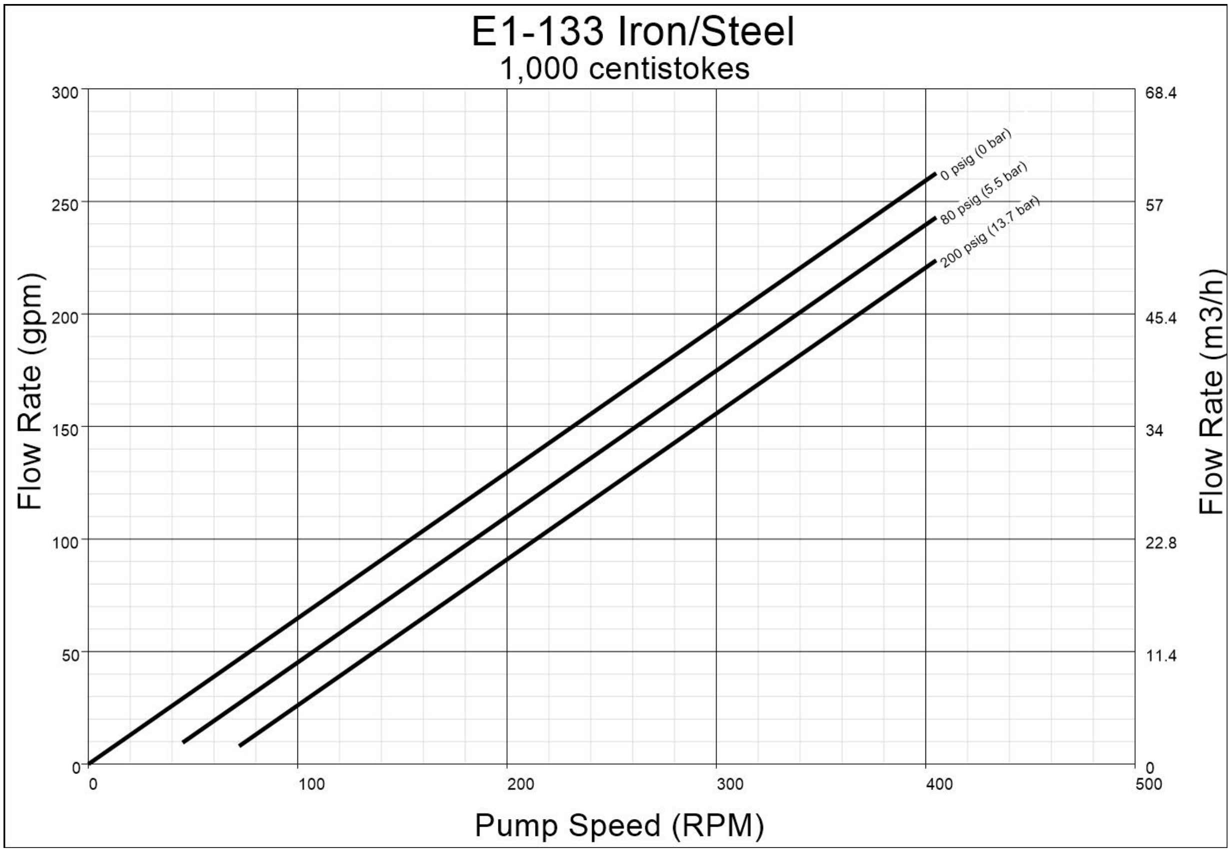

E1-82 Stainless Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
150 psig (10.3 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
5
10
15
3.75
7.5
11.25
50
100
150
200

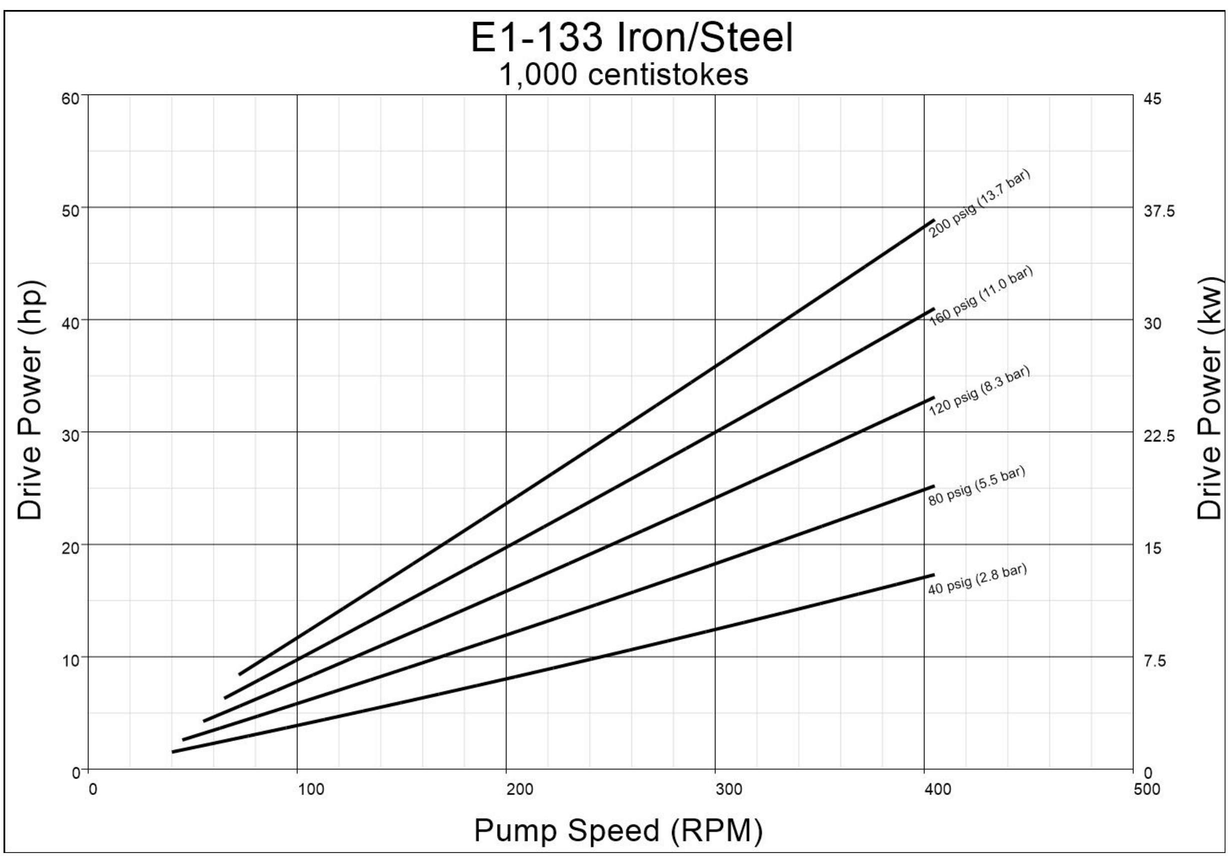

E1-133 Iron/Steel
20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
133 psig (9.2 bar)
400
300
200
100
0
91
68.4
45.4
22.8
0
100
200
300
400
500
600


E1-133 Iron/Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
133 psig (9.2 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
40
30
20
10
0
30
22.5
15
7.5
0
100
200
300
400
500
600

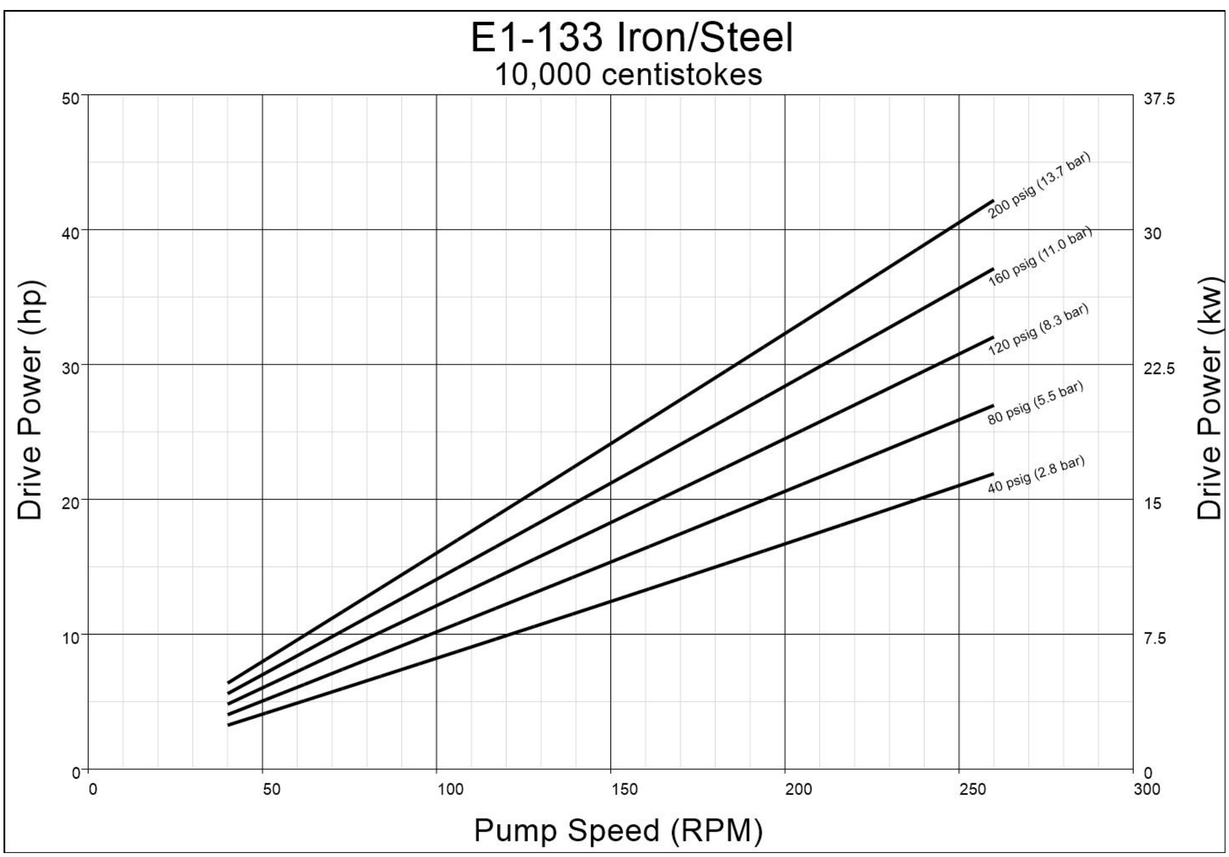

E1-133 Iron/Steel
100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
80 psig (5.5 bar)
180 psig (12.4 bar)
400
300
200
100
0
91
68.4
45.4
22.8
0
0
100
200
300
400
500
600


E1-133 Iron/Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
180 psig (12.4 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
60
50
40
30
20
10
0
45
37.5
30
22.5
15
7.5
0
0
100
200
300
400
500
600


E1-133 Iron/Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
80 psig (5.5 bar)
200 psig (13.7 bar)
0
50
100
150
200
250
300
11.4
22.8
34
45.4
57
68.4
400
500


E1-133 Iron/Steel
1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
10
20
30
40
50
60
7.5
15
22.5
37.5
45
100
200
300
400
500


E1-133 Iron/Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
200 psig (13.7 bar)
0
50
100
150
200
250
300
45.4
34
22.8
11.4


E1-133 Iron/Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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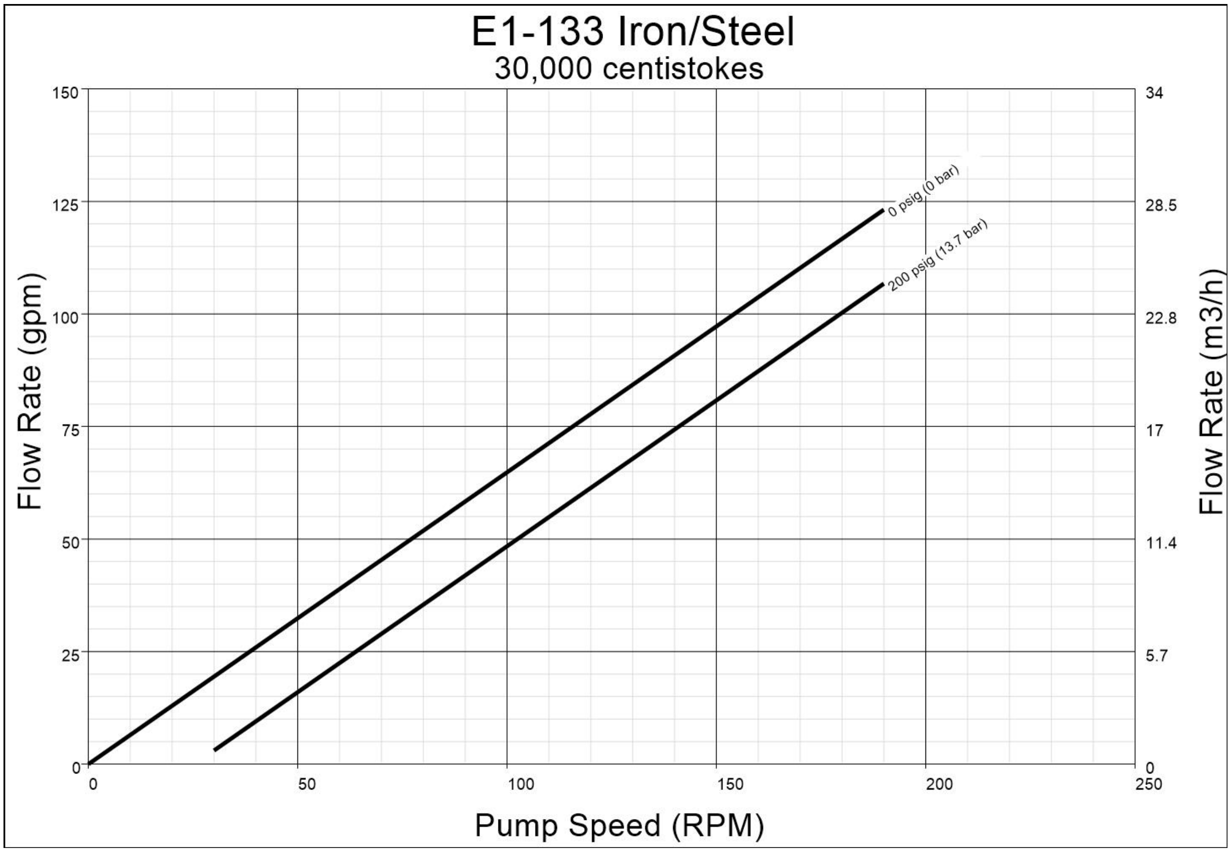
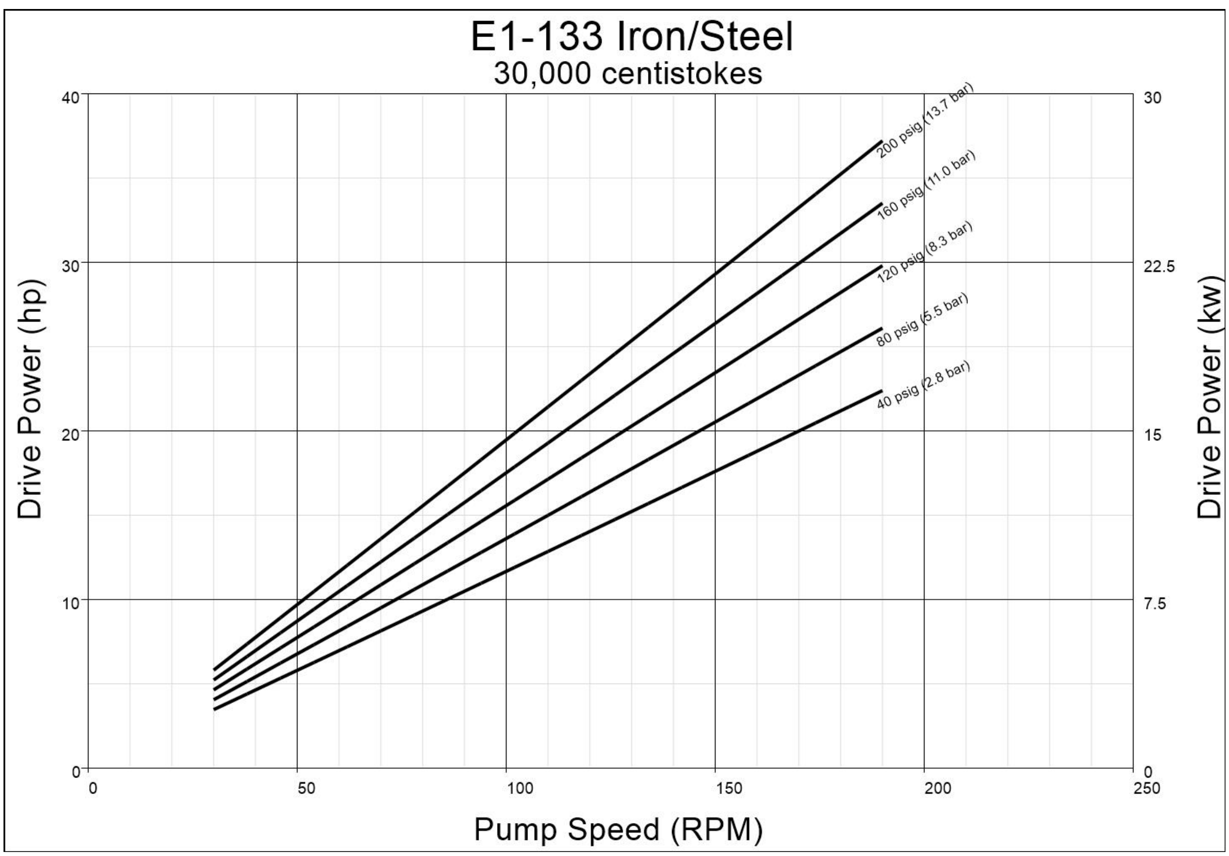
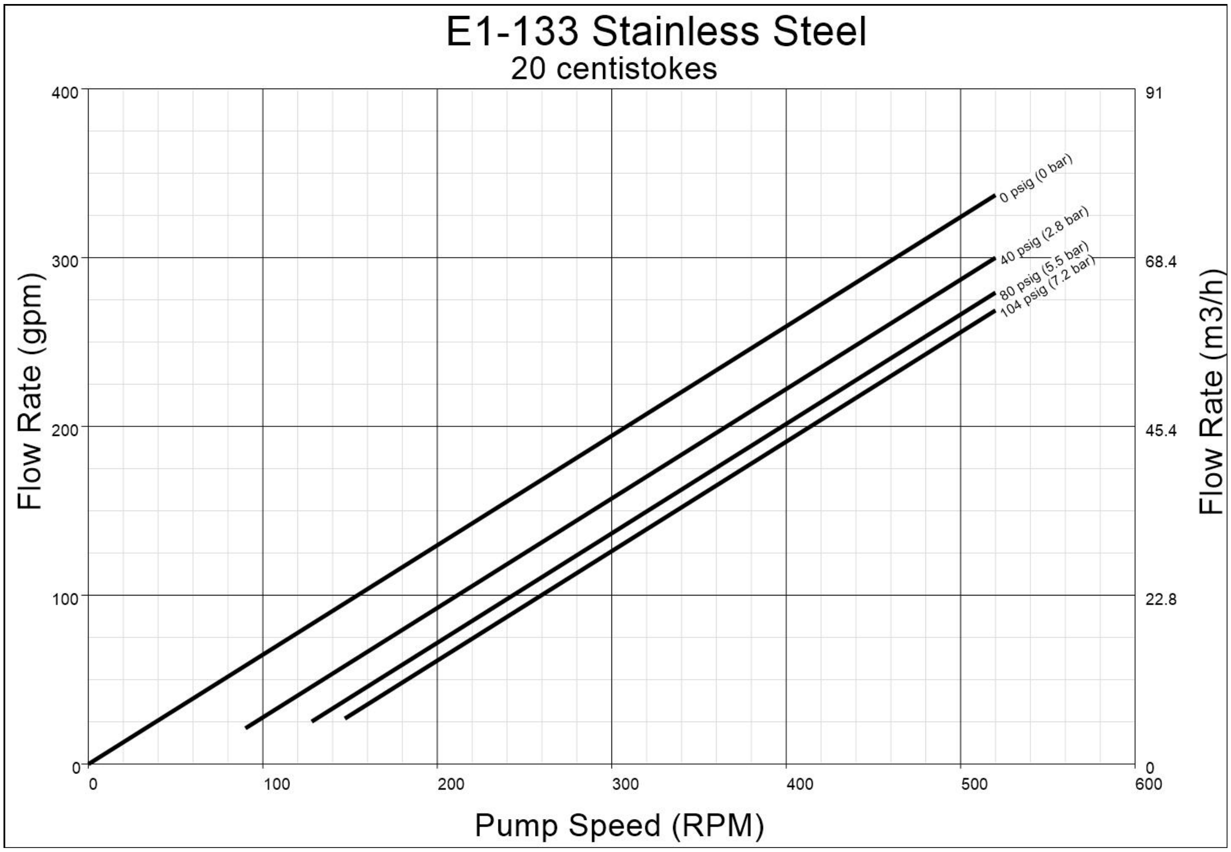
10
20
30
40
50
100
150
200
250
300
37.5
22.5
15
7.5


E1-133 Iron/Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
200 psig (13.7 bar)
0
25
50
75
100
125
150
5.7
11.4
17
22.8
28.5
34
200
250


E1-133 Iron/Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
10
20
30
40
7.5
15
22.5
30
50
100
150
200
250


E1-133 Stainless Steel
20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
104 psig (7.2 bar)
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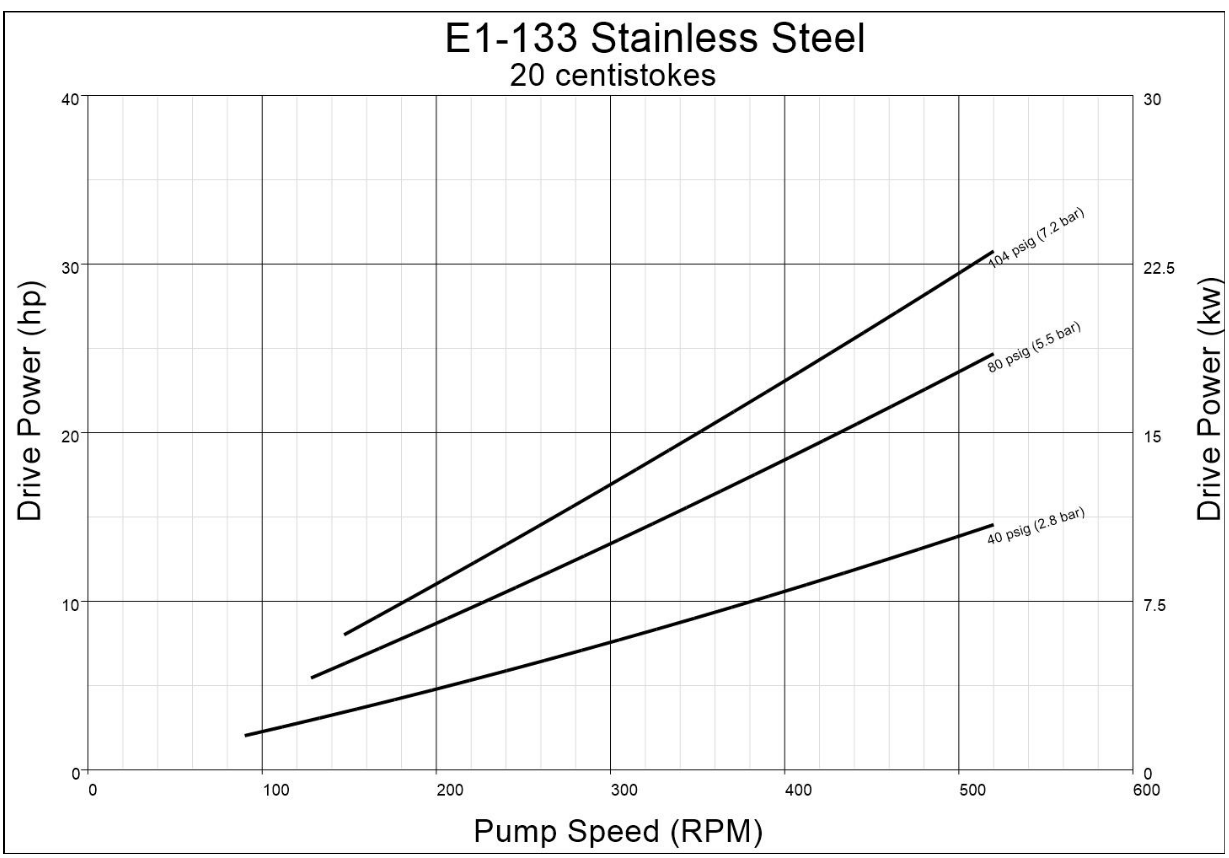
100
200
300
400
500
600
0
100
200
300
400
0
22.8
45.4
68.4
91


E1-133 Stainless Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
104 psig (7.2 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
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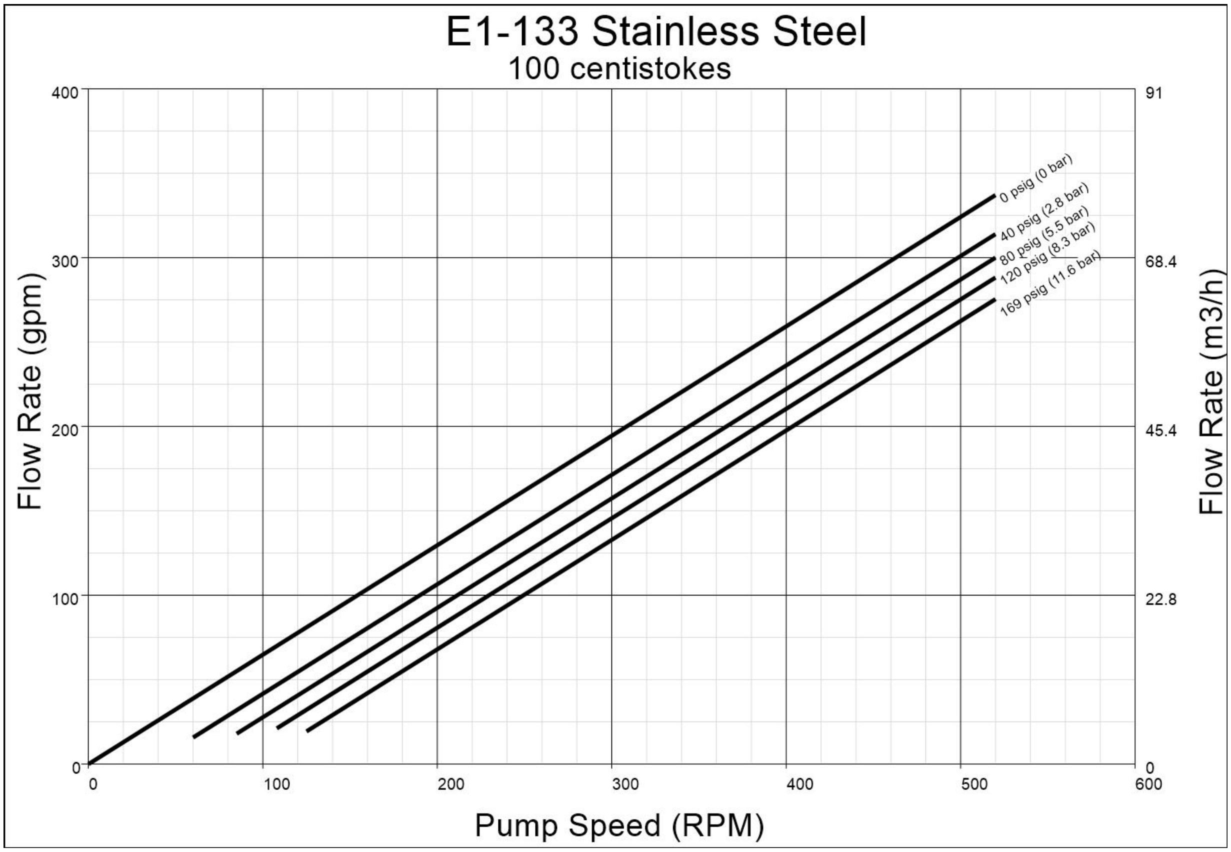
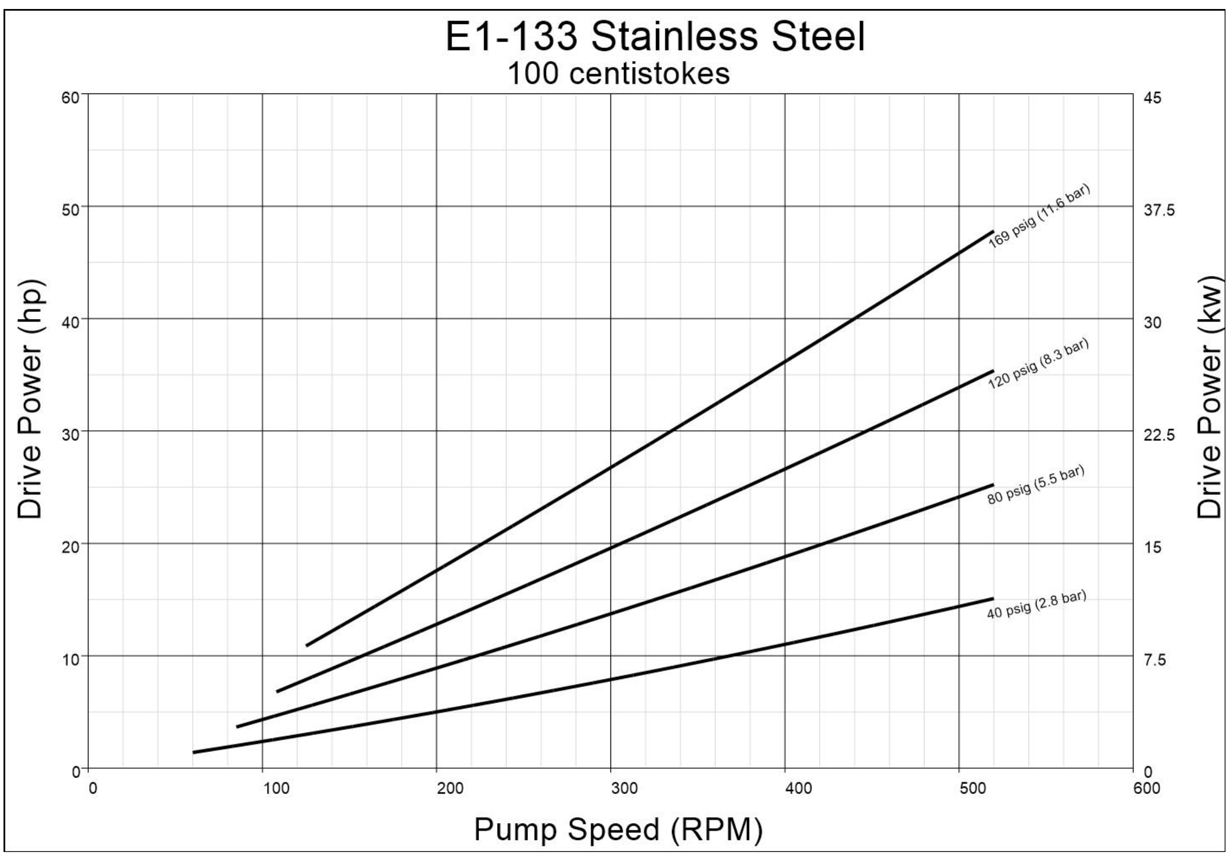
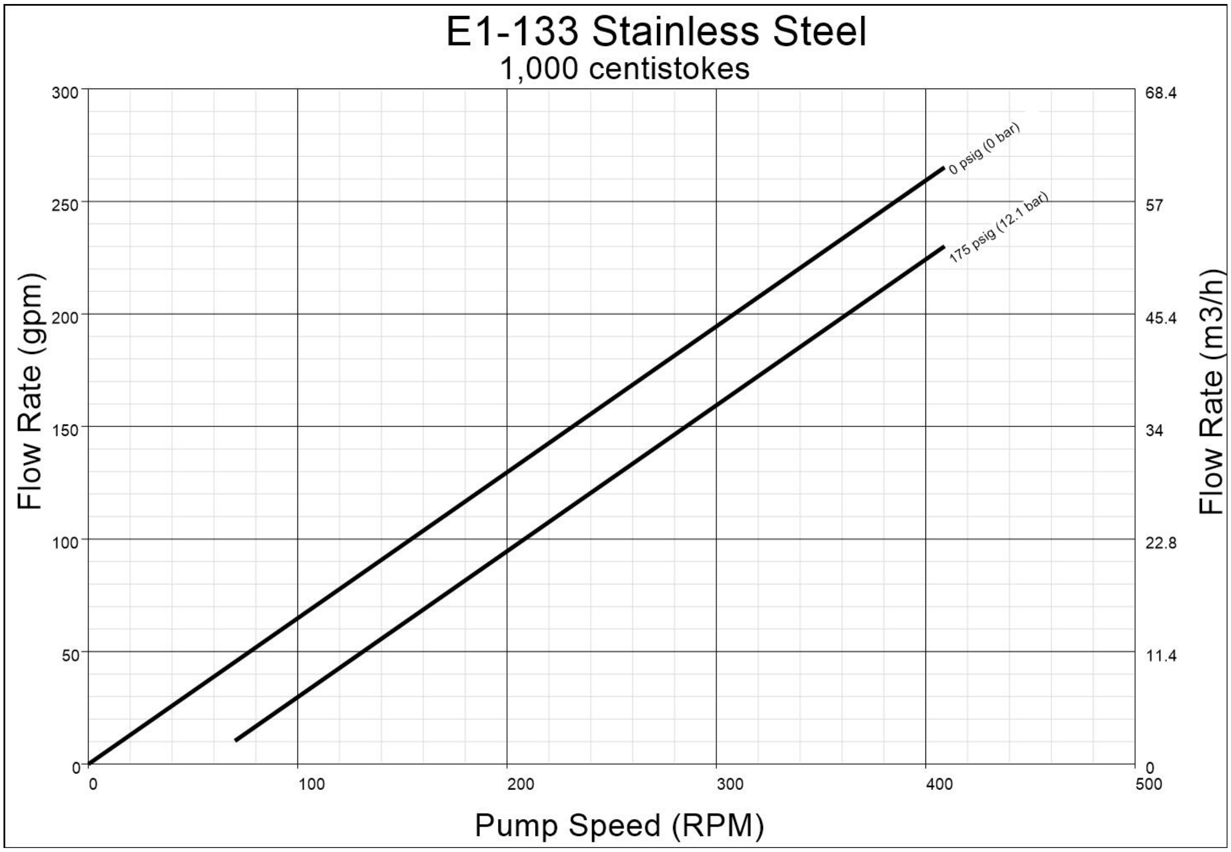
200
300
400
500
600
0
10
20
30
40
0
7.5
15
22.5
30


E1-133 Stainless Steel
100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0
100
200
300
400
500
600
0
100
200
300
400
0
22.8
45.4
68.4
91
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
120 psig (8.3 bar)
169 psig (11.6 bar)


E1-133 Stainless Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
0
100
200
300
400
500
600
0
10
20
30
40
50
60
0
7.5
15
22.5
30
37.5
45
169 psig (11.6 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)


E1-133 Stainless Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
175 psig (12.1 bar)
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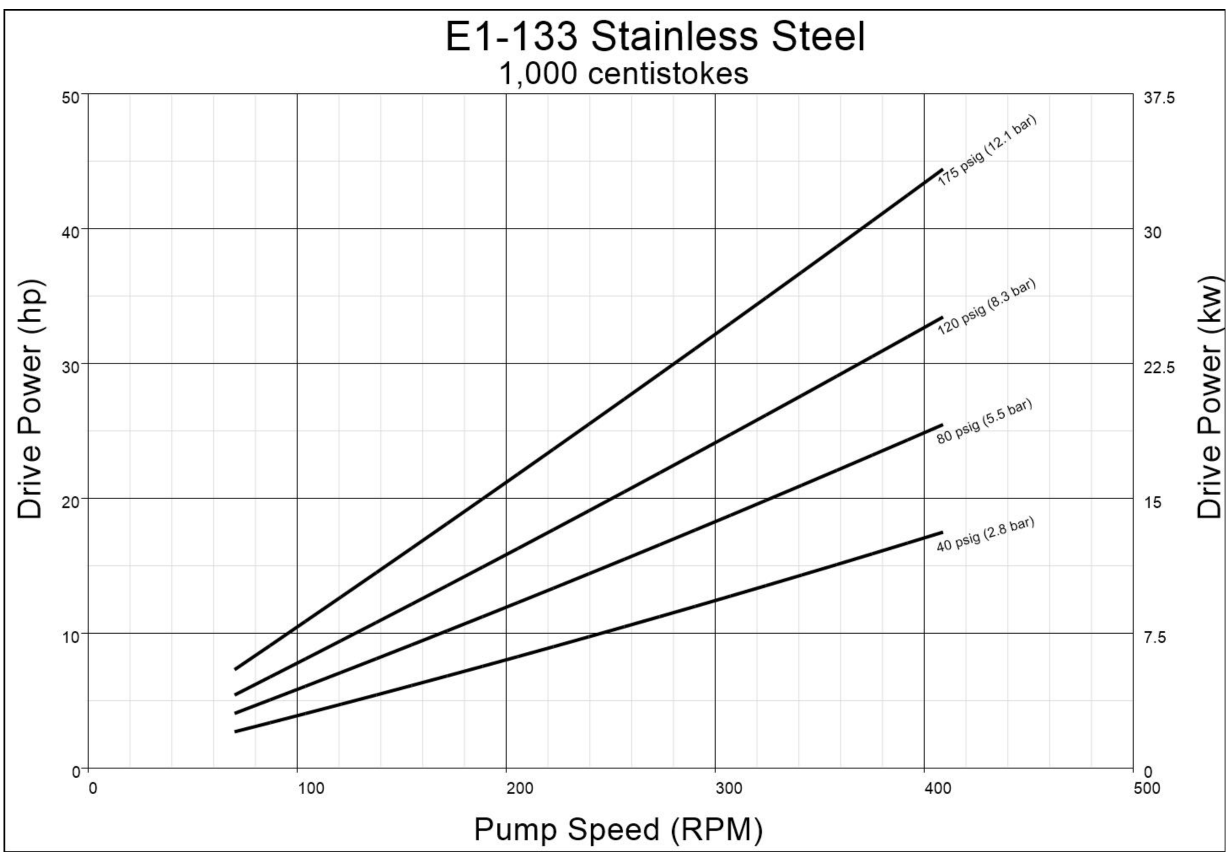
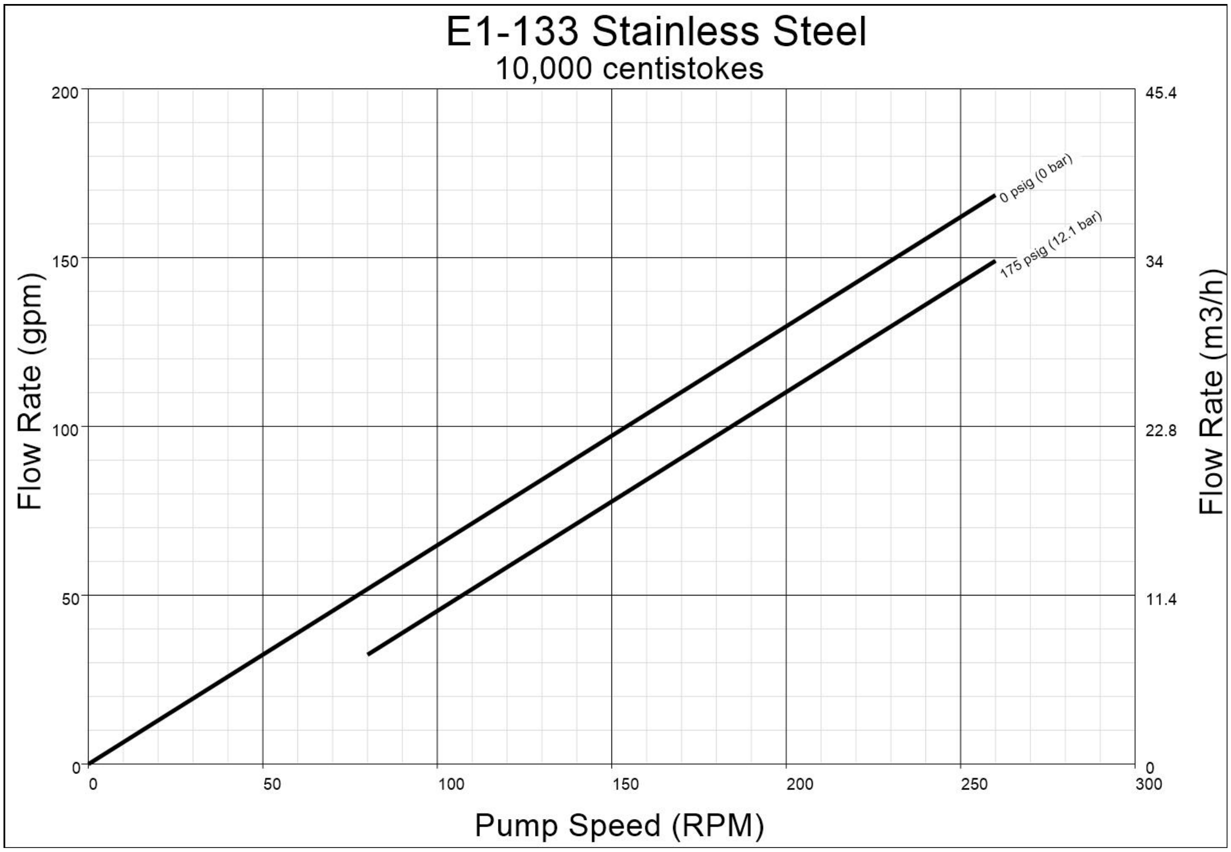
100
150
200
250
300
11.4
22.8
34
45.4
57
68.4
400
500


E1-133 Stainless Steel
1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
175 psig (12.1 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
10
20
30
40
50
7.5
15
22.5
30
37.5
100
200
300
400
500


E1-133 Stainless Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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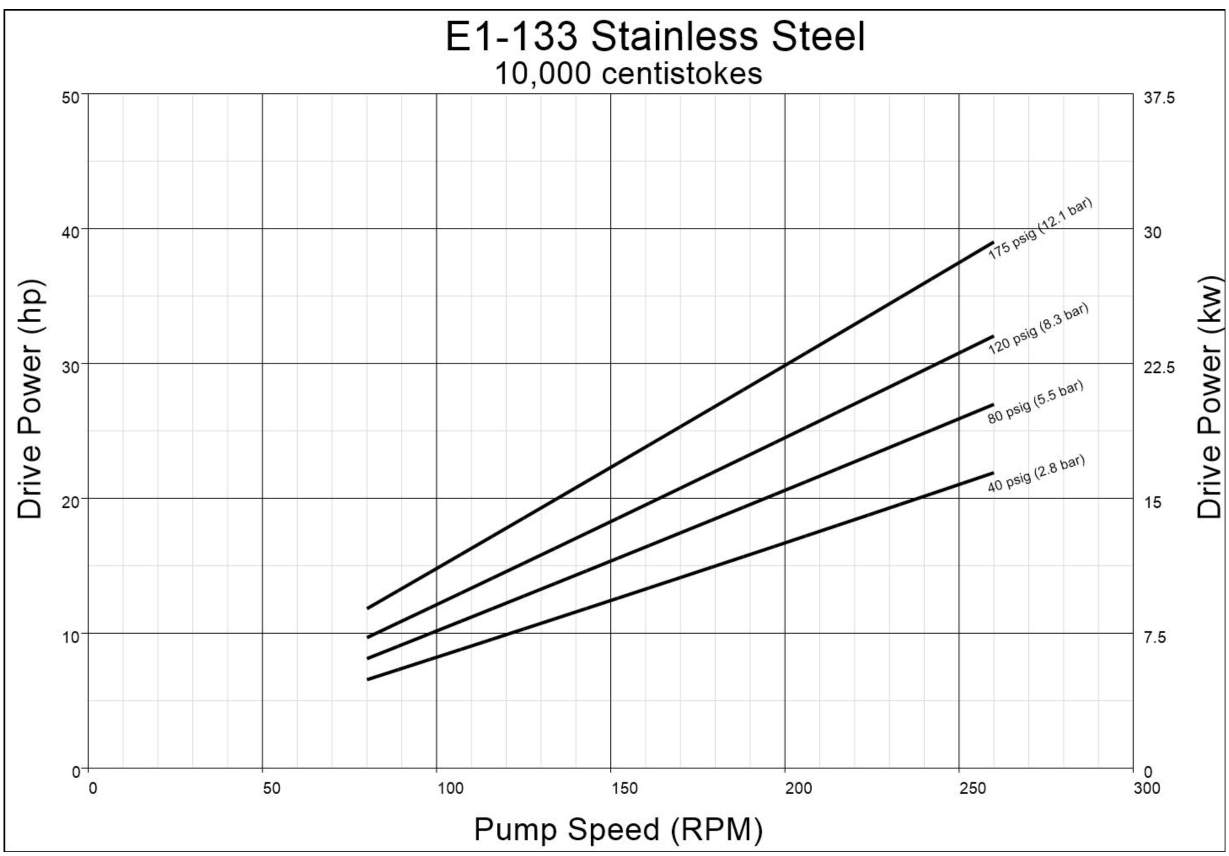
175 psig (12.1 bar)
0
50
100
150
200
250
300
11.4
22.8
34
45.4


E1-133 Stainless Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
175 psig (12.1 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
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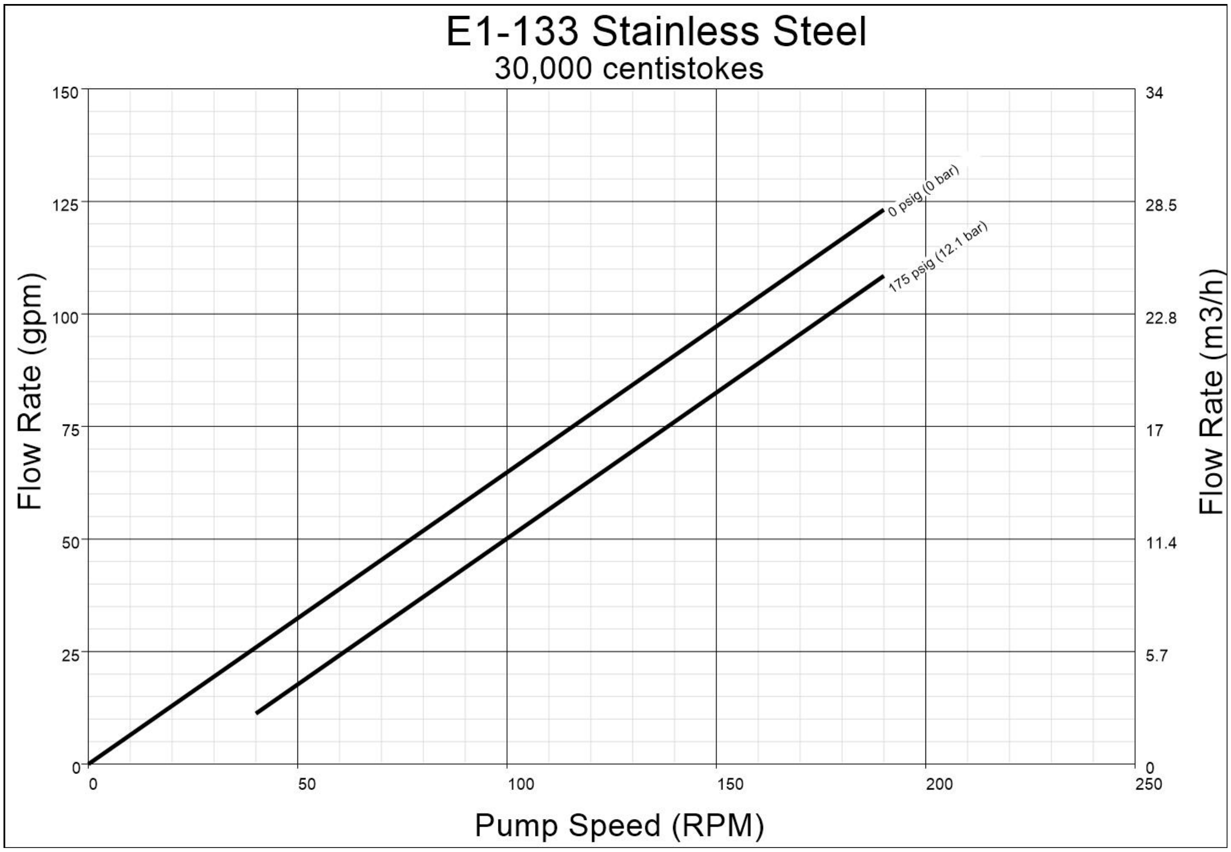
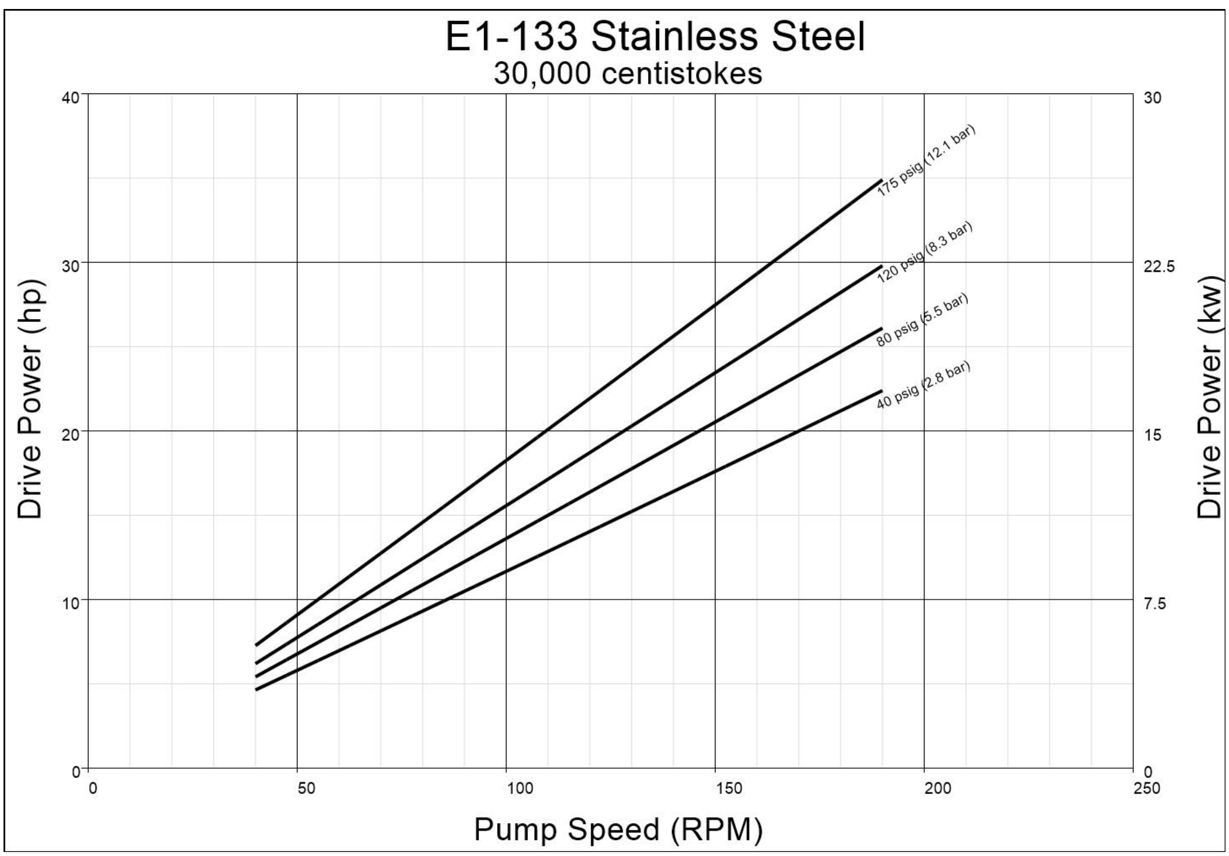
20
30
40
50
100
150
200
250
300
7.5
15
22.5
37.5


E1-133 Stainless Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
175 psig (12.1 bar)
150
125
100
75
50
25
0
34
28.5
22.8
17
11.4
5.7
0
0
50
100
150
200
250


E1-133 Stainless Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
175 psig (12.1 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
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30
20
10
0
30
22.5
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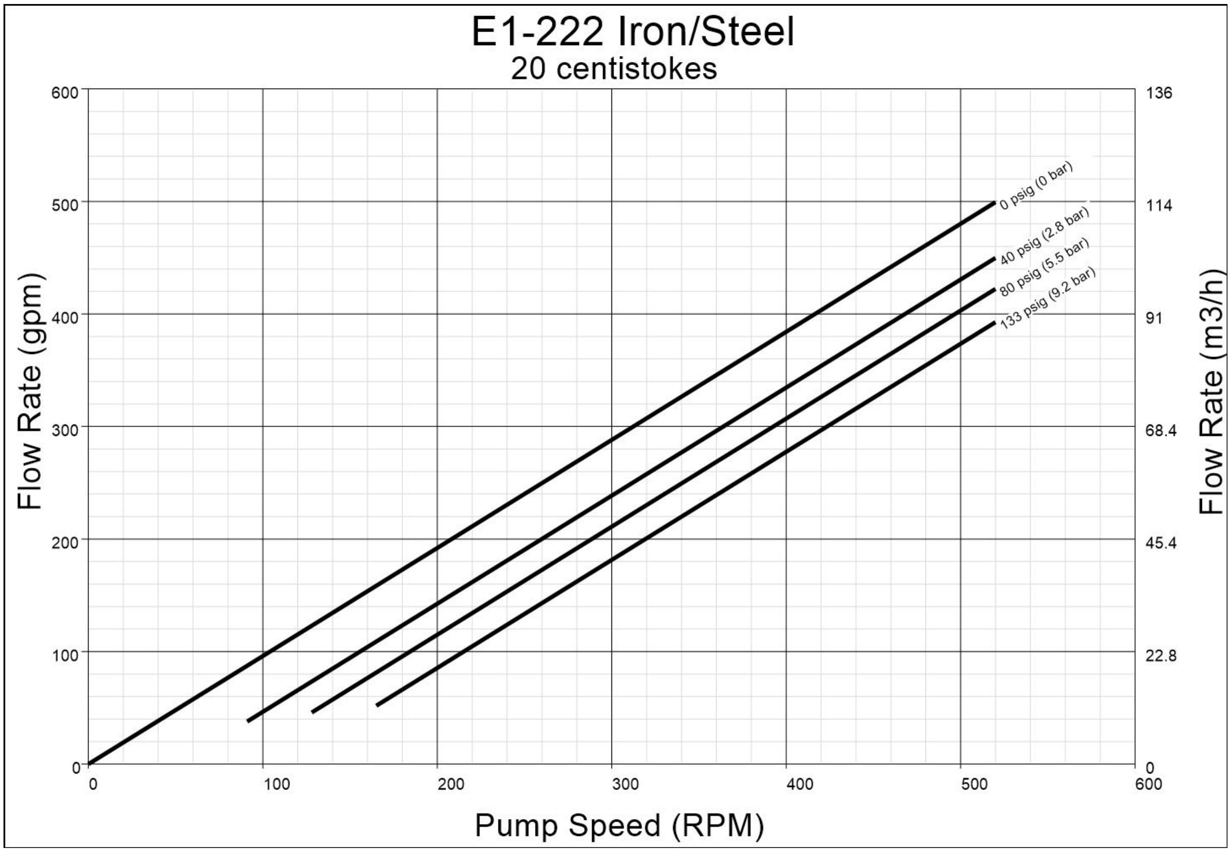
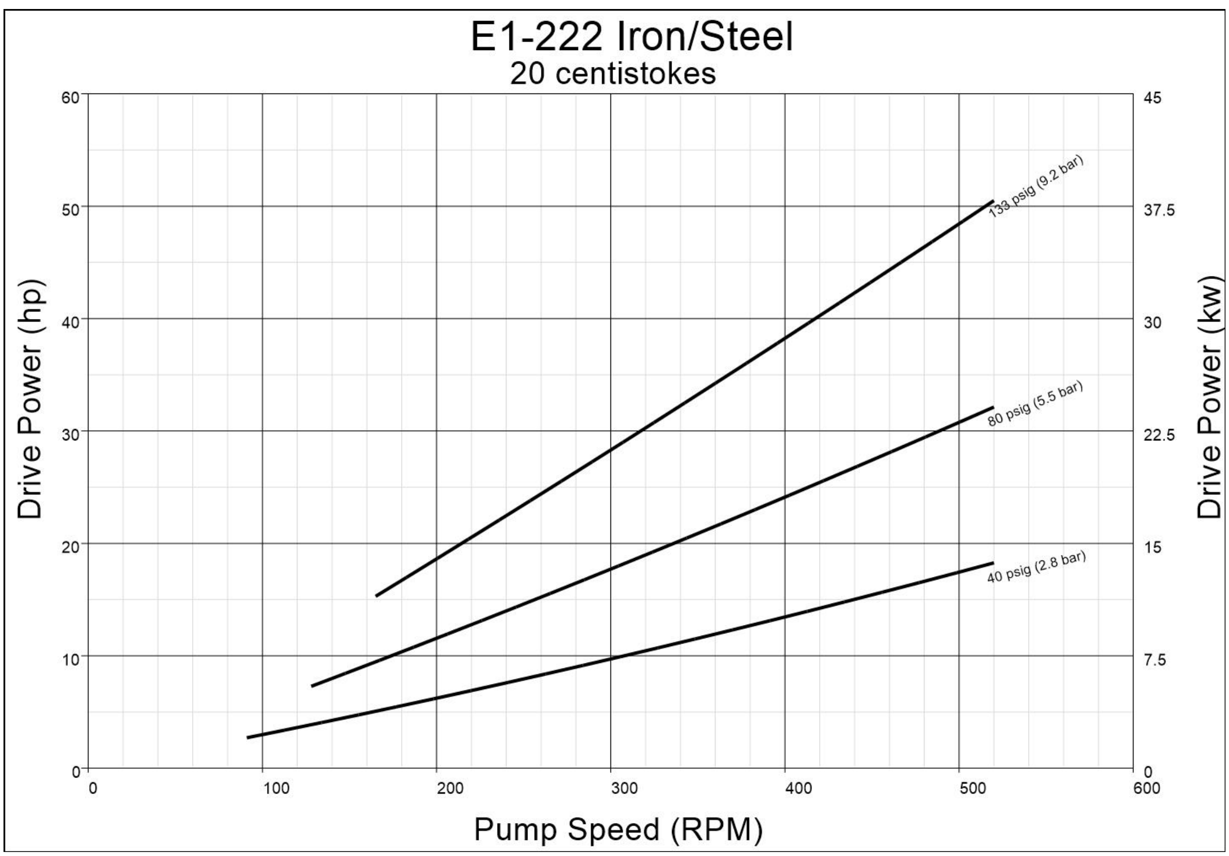
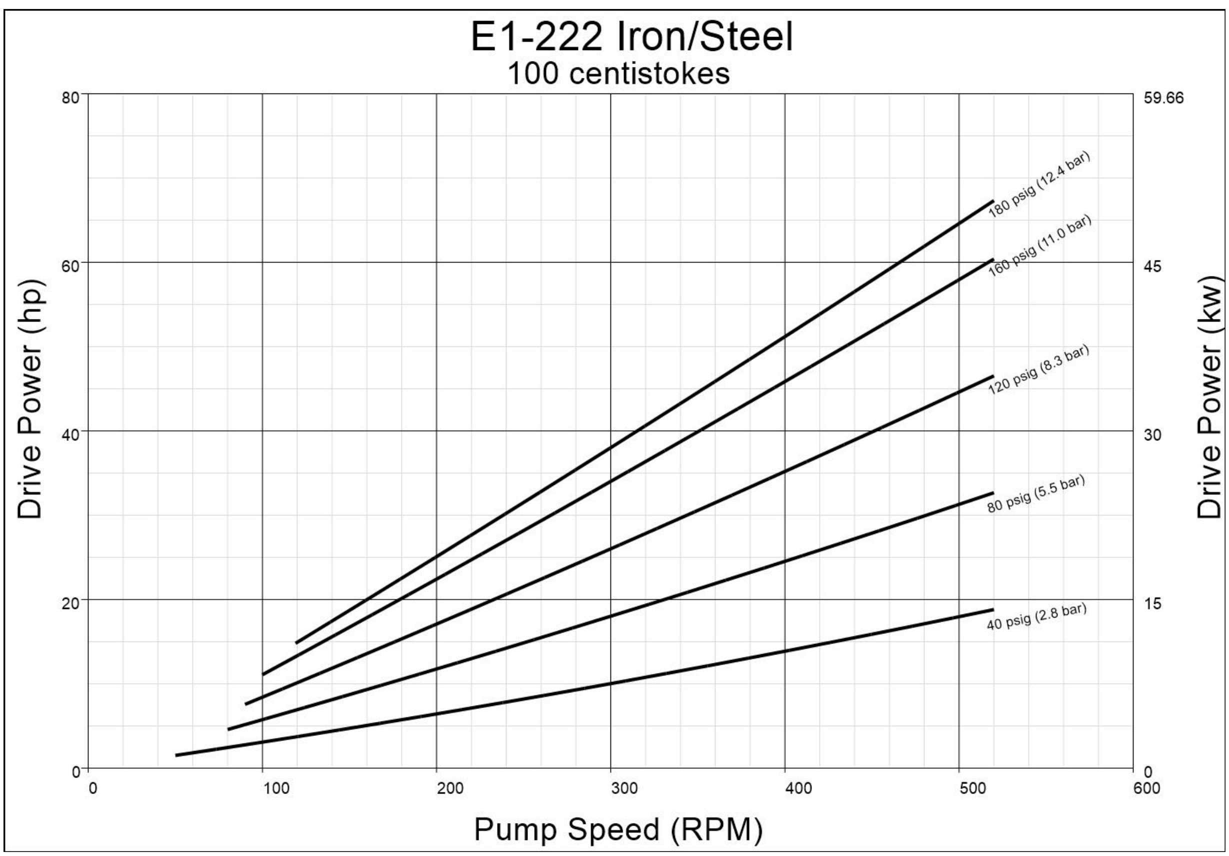
7.5
0
0
50
100
150
200
250


E1-222 Iron/Steel
20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
133 psig (9.2 bar)
0
100
200
300
400
500
600
136
114
91
68.4
45.4
22.8


E1-222 Iron/Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
133 psig (9.2 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
10
20
30
40
50
60
45
37.5
30
22.5
15
7.5
100
200
300
400
500
600


E1-222 Iron/Steel
100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
80 psig (5.5 bar)
180 psig (12.4 bar)
0
100
200
300
400
500
600
22.8
45.4
68.4
91
114
136


E1-222 Iron/Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
180 psig (12.4 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
20
40
60
80
15
30
45
59.66
100
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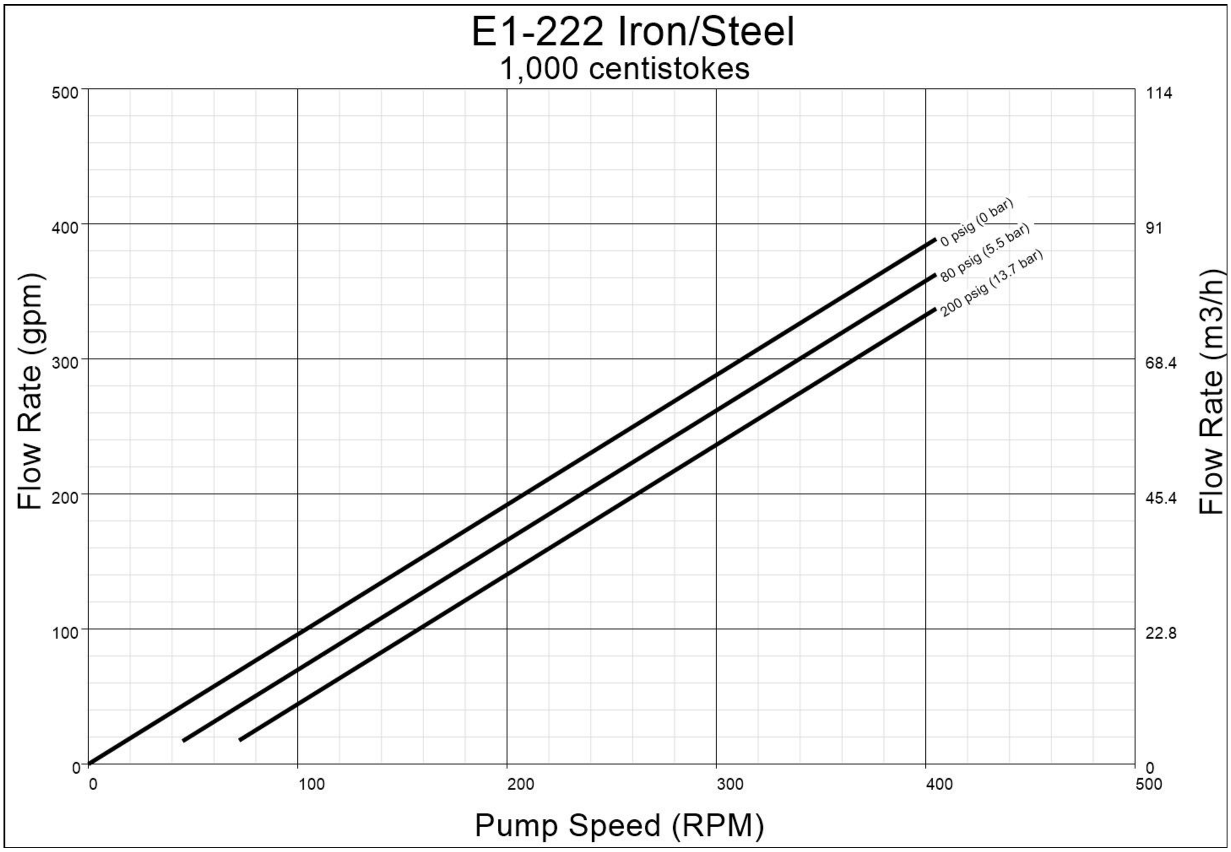
300
400
500
600


E1-222 Iron/Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
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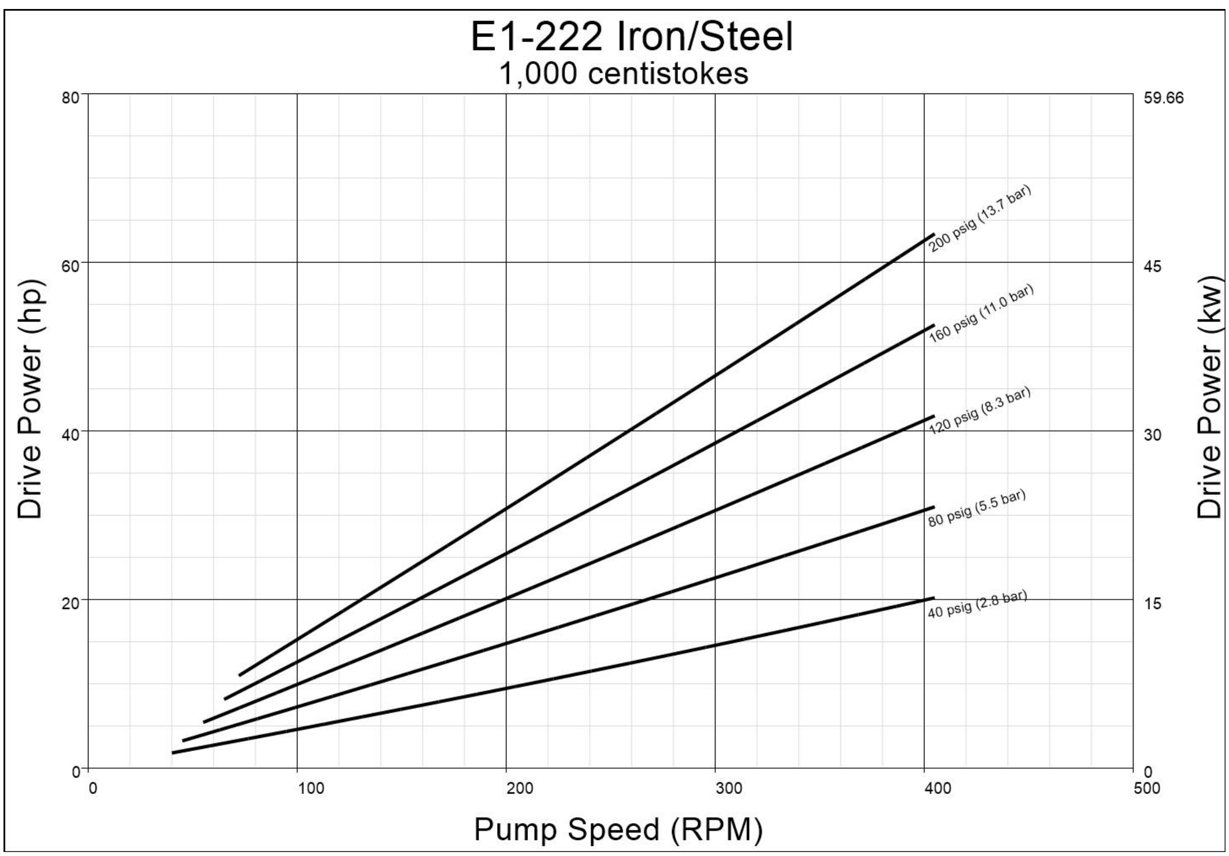
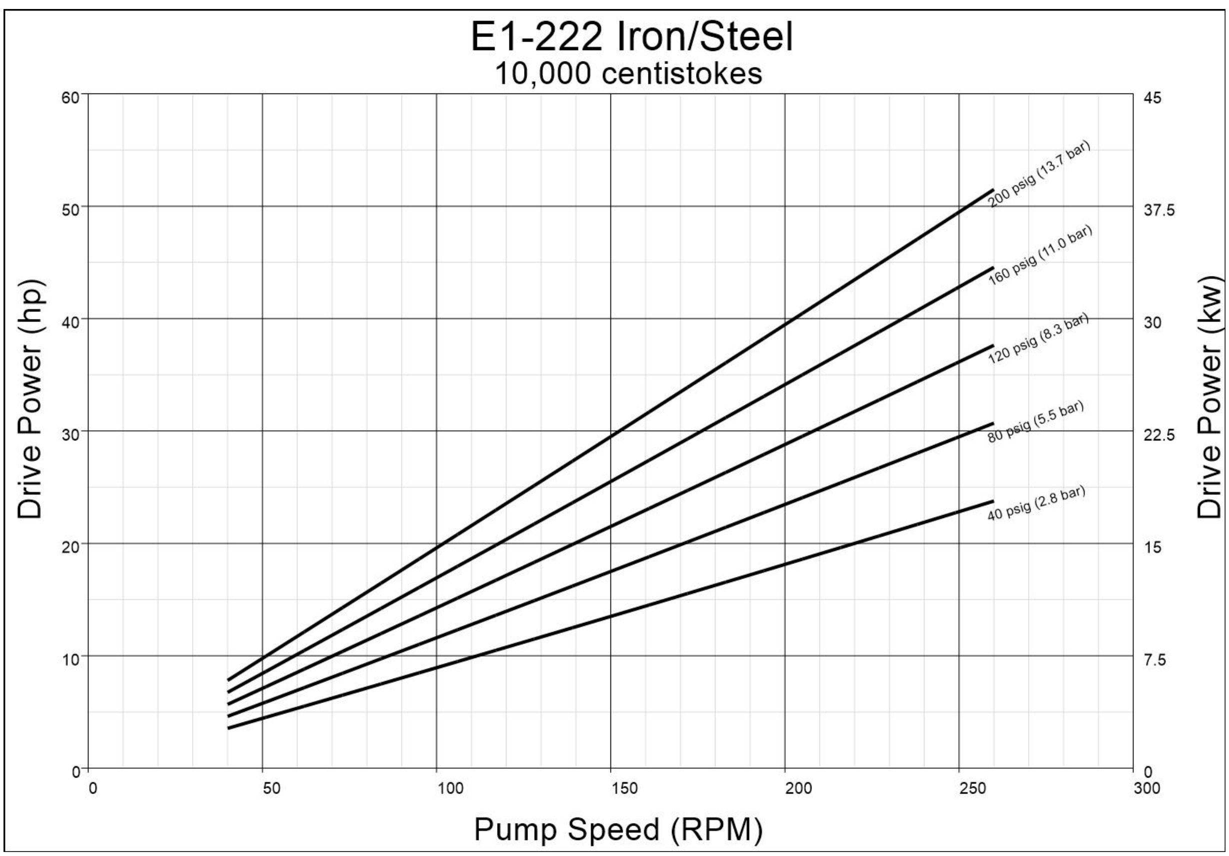
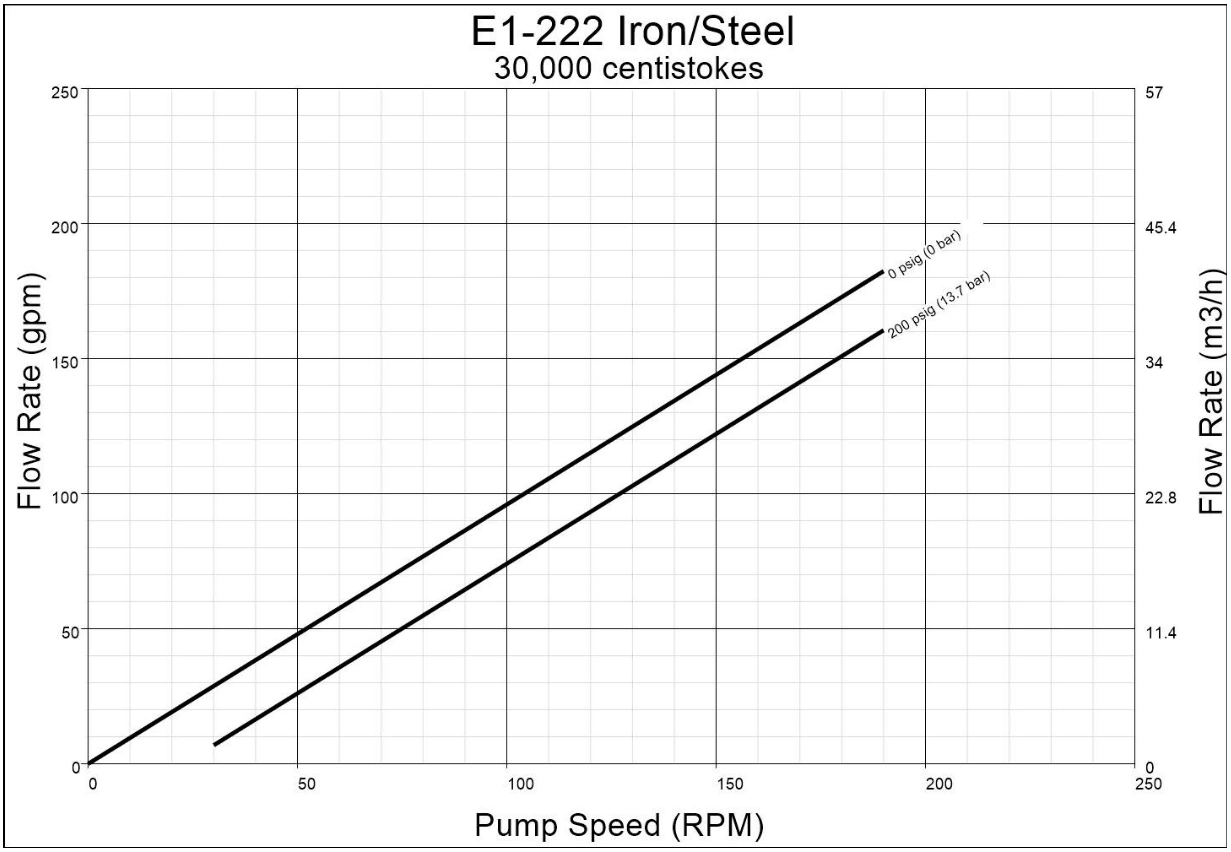
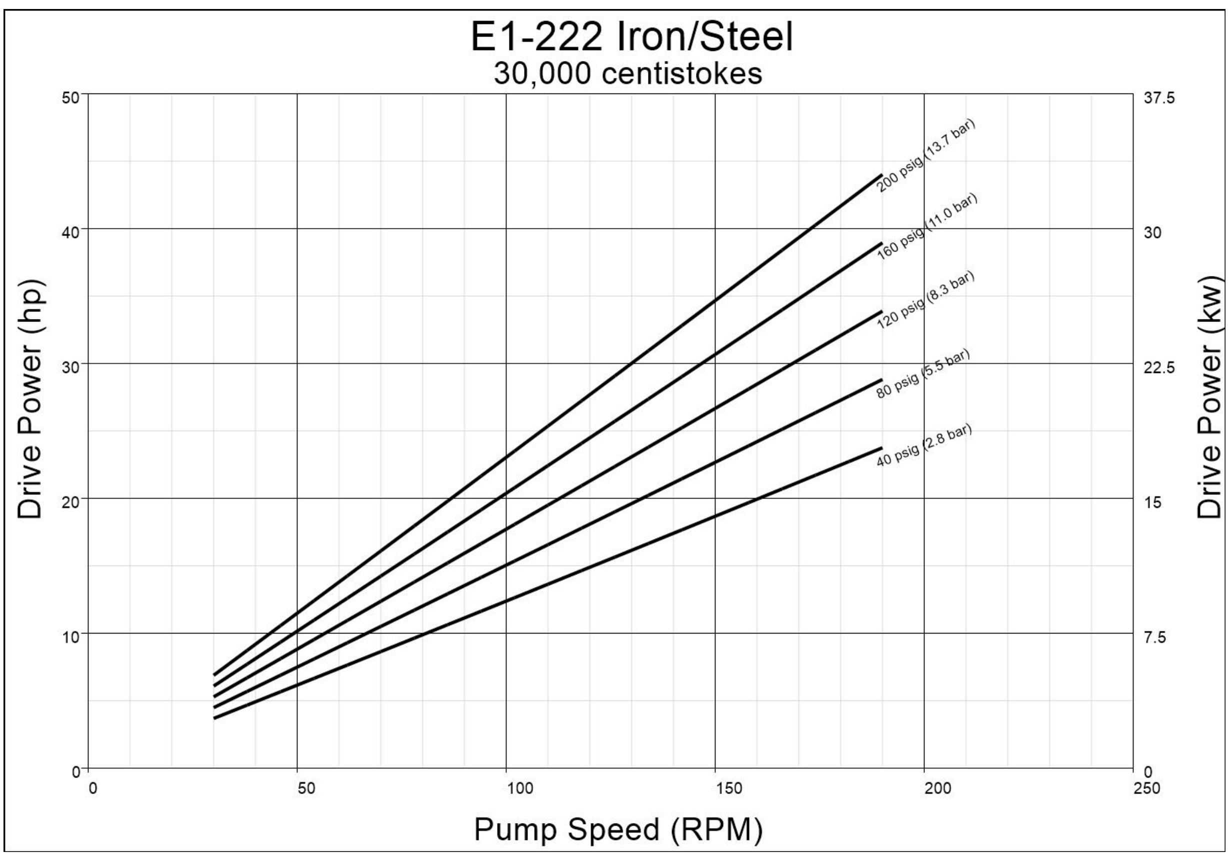
80 psig (5.5 bar)
200 psig (13.7 bar)
500
400
300
200
100
0
114
91
68.4
45.4
22.8
0
0
100
200
300
400
500

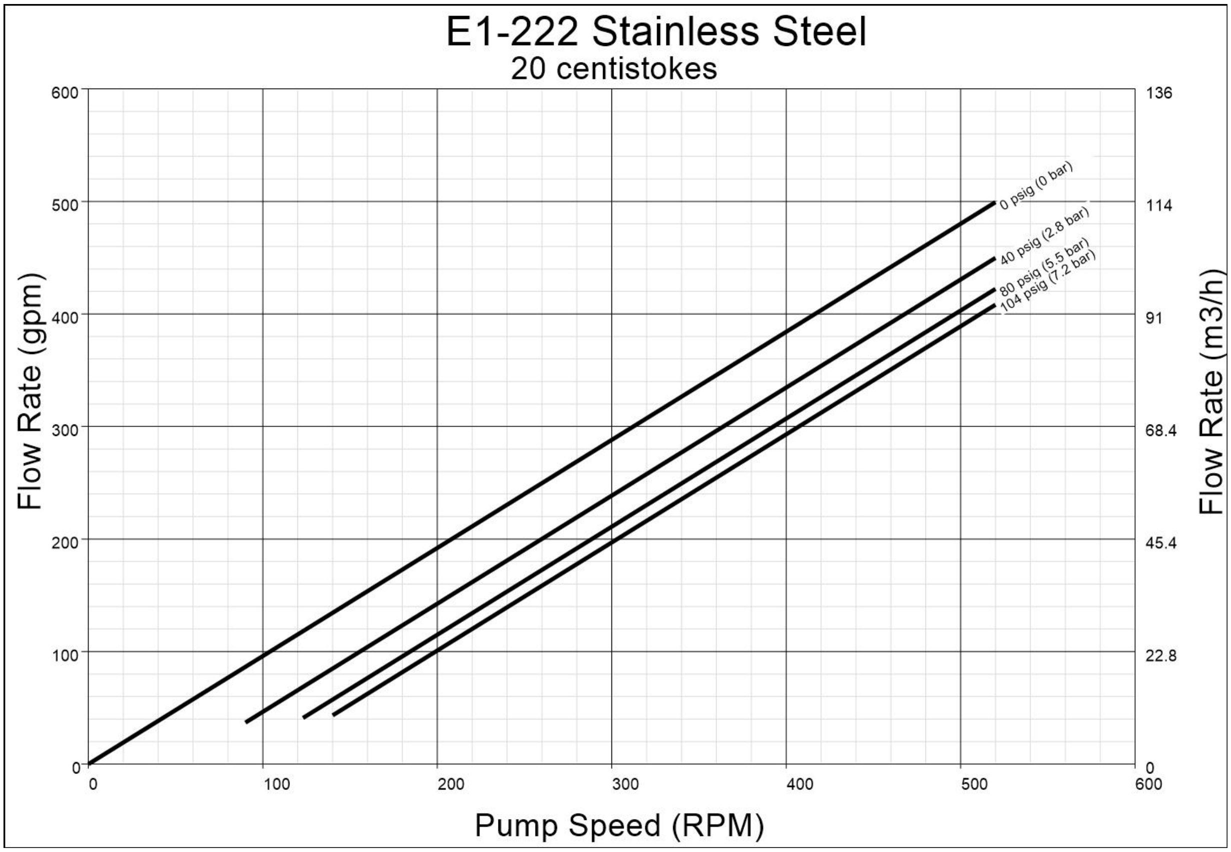

E1-222 Iron/Steel
1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
80
60
40
20
0
59.66
45
30
15
0
0
100
200
300
400
500

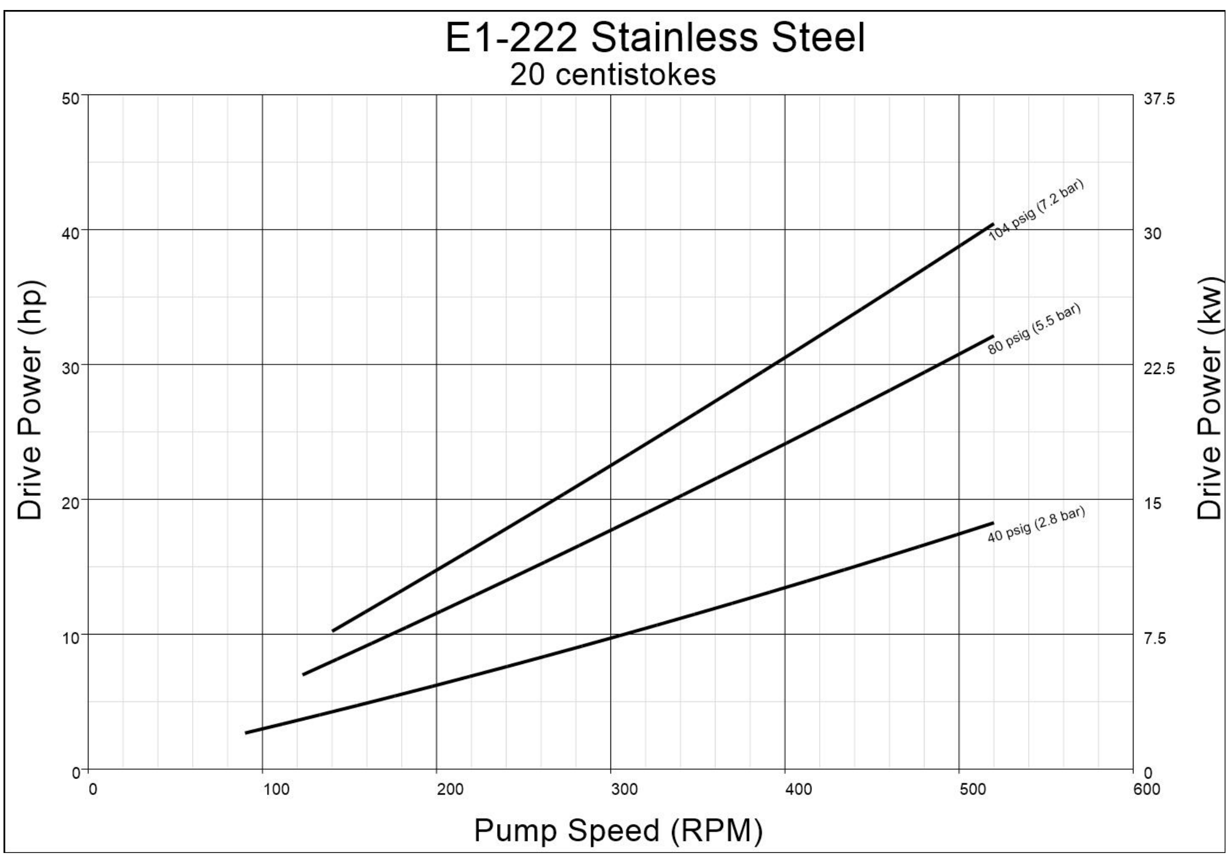

E1-222 Iron/Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
200 psig (13.7 bar)
0
50
100
150
200
250
300
11.4
22.8
34
45.4
57
68.4

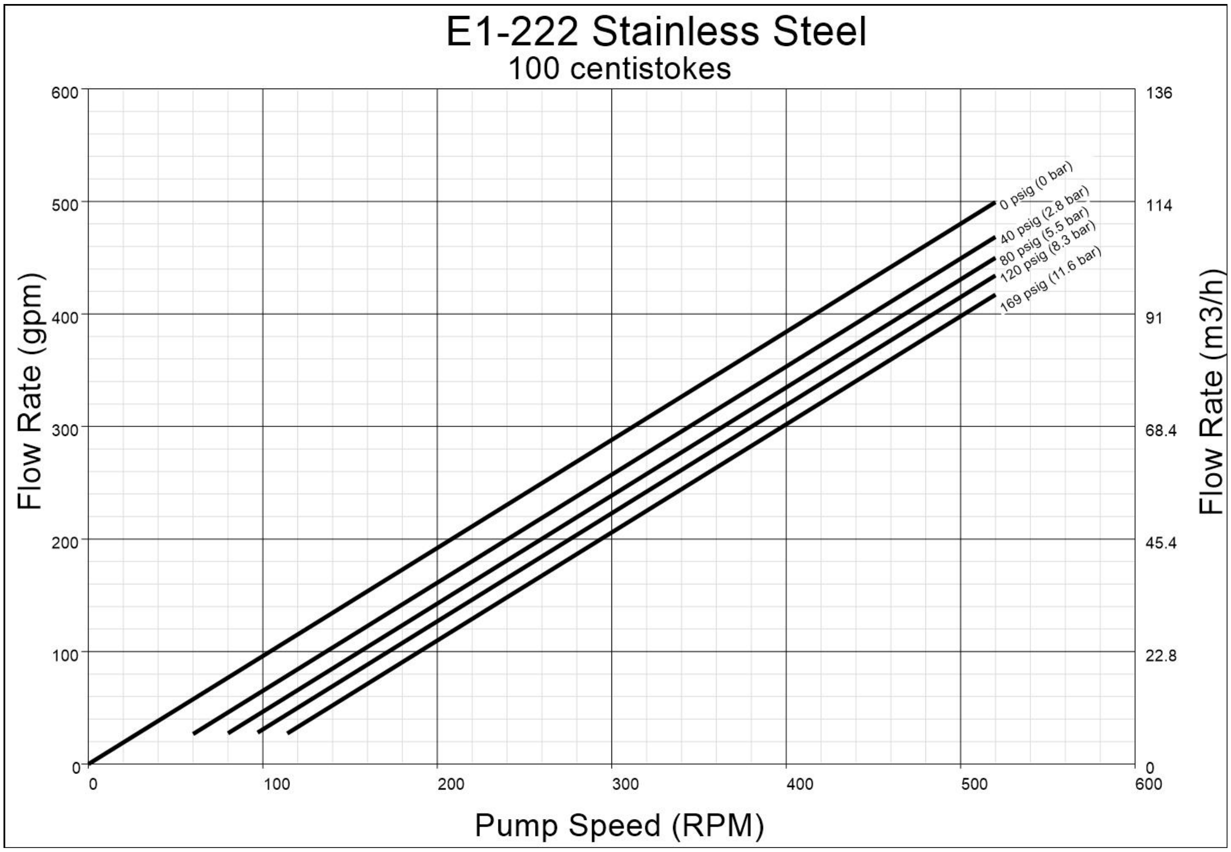

E1-222 Iron/Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
10
20
30
40
50
60
7.5
15
22.5
30
37.5
45
100
150
200
250
300

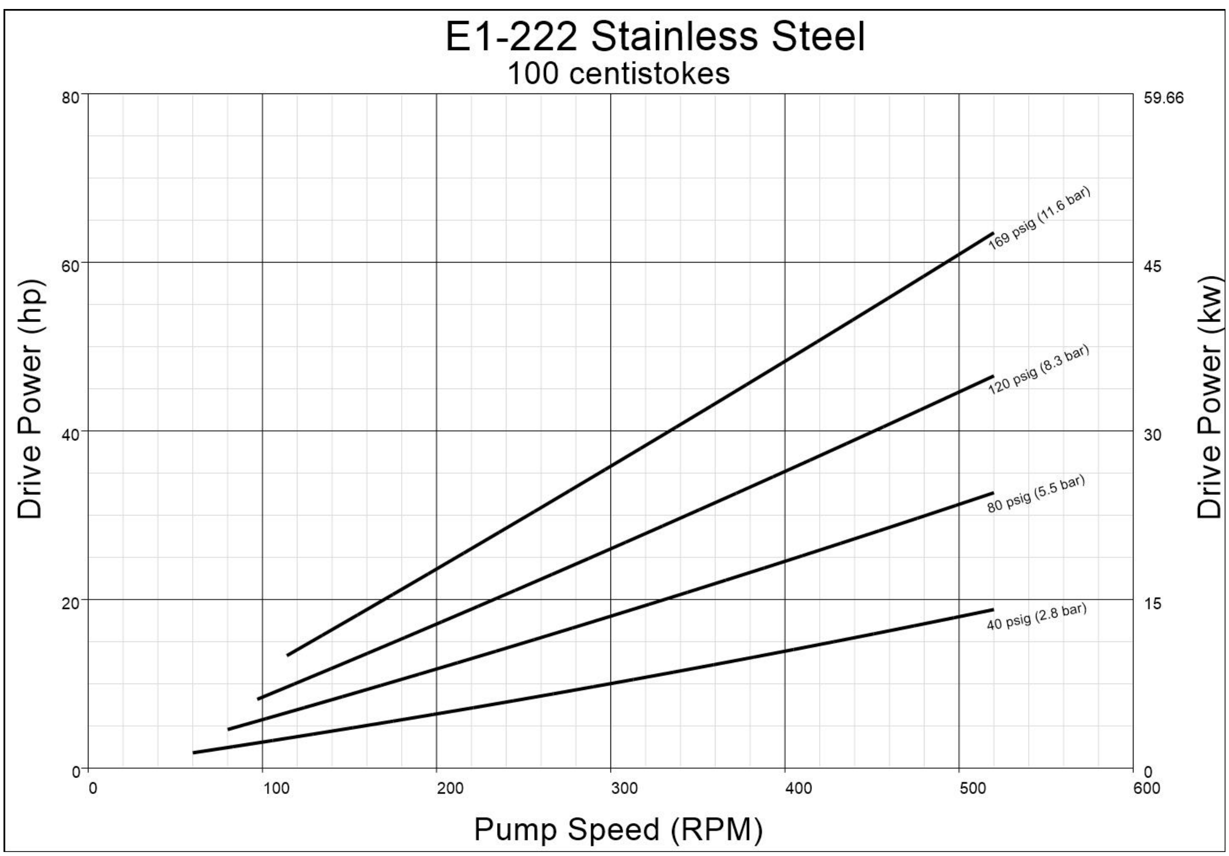

E1-222 Iron/Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
200 psig (13.7 bar)
0
50
100
150
200
250
0
11.4
22.8
34
45.4
57


E1-222 Iron/Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
200 psig (13.7 bar)
160 psig (11.0 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
10
20
30
40
50
0
7.5
15
22.5
30
37.5
0
50
100
150
200
250

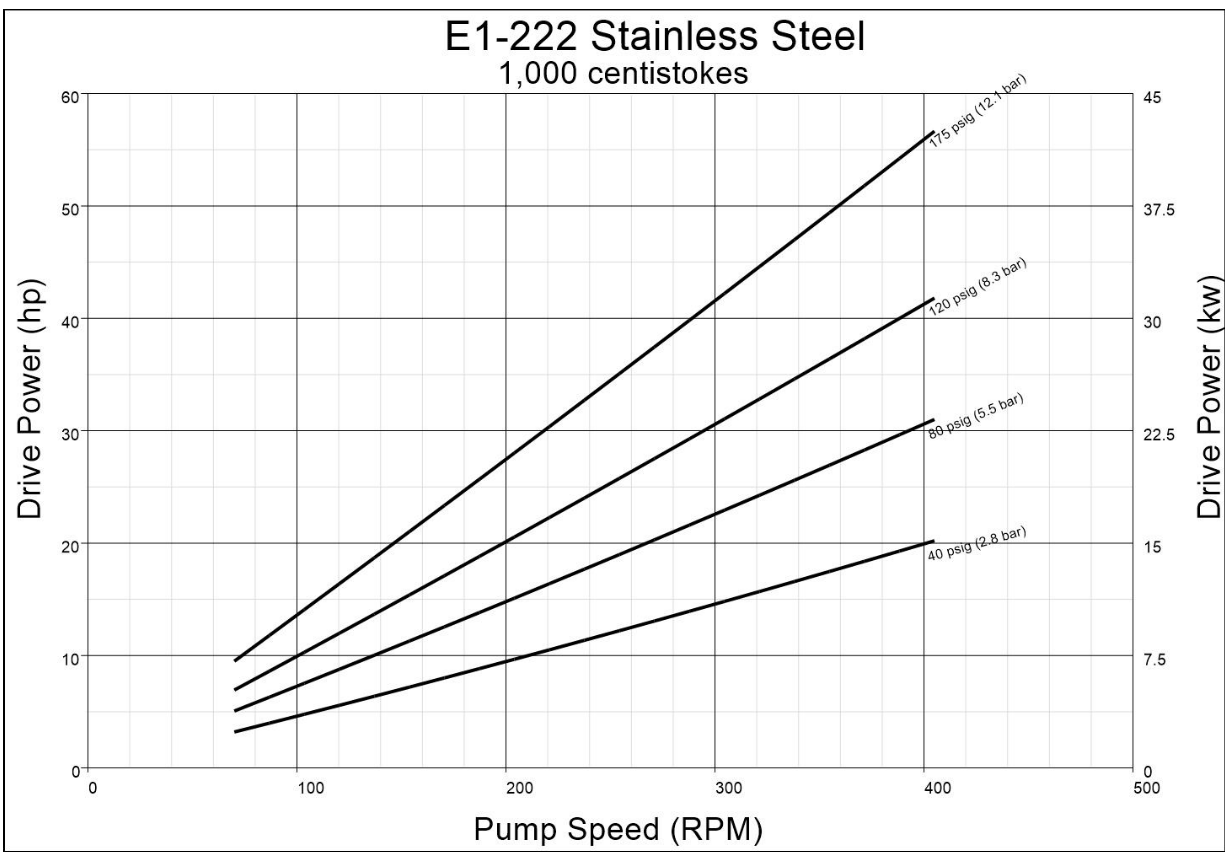

E1-222 Stainless Steel
20 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
104 psig (7.2 bar)
0
100
200
300
400
500
600
22.8
45.4
68.4
91
114
136


E1-222 Stainless Steel
20 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
104 psig (7.2 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
10
20
30
40
50
100
200
300
400
500
600
7.5
15
22.5
30
37.5

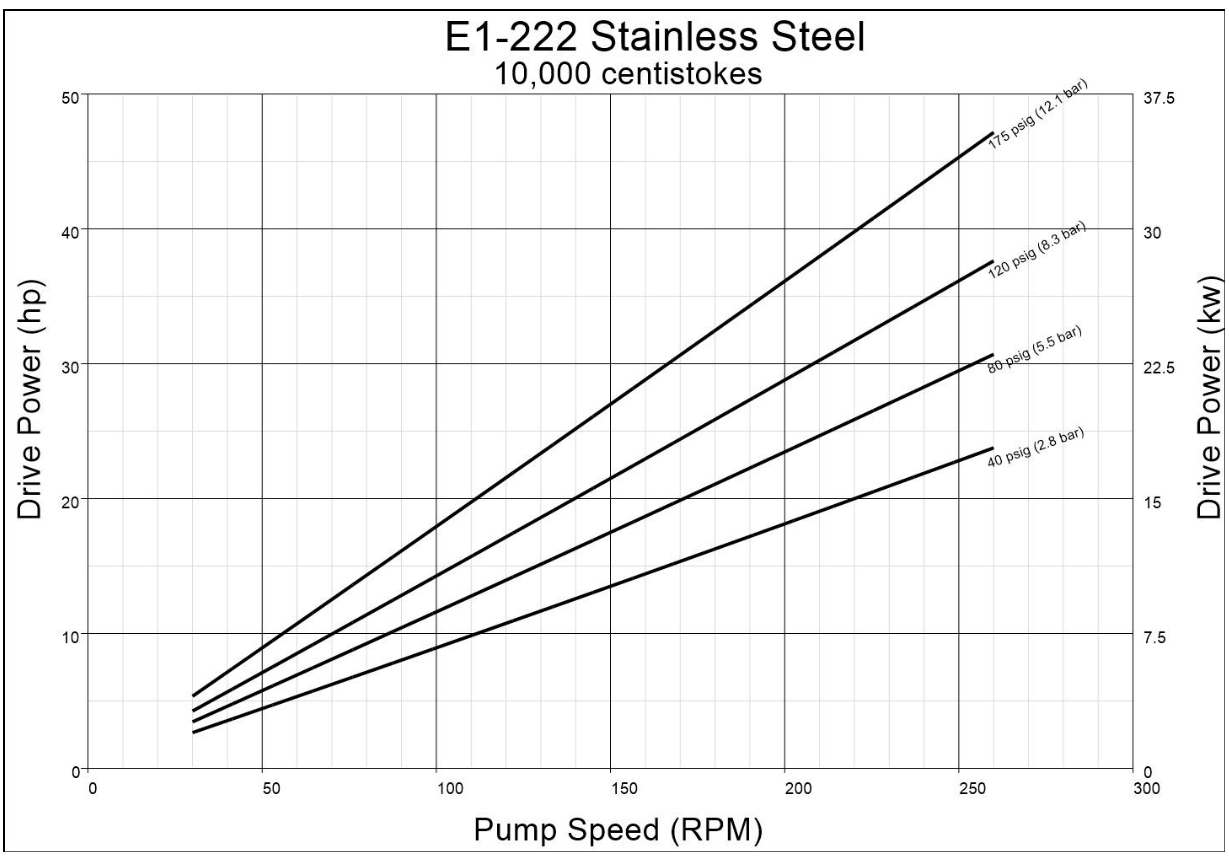

E1-222 Stainless Steel
100 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
40 psig (2.8 bar)
80 psig (5.5 bar)
120 psig (8.3 bar)
169 psig (11.6 bar)
0
100
200
300
400
500
600
136
114
91
68.4
45.4
22.8


E1-222 Stainless Steel
100 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
169 psig (11.6 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
20
40
60
80
59.66
45
30
15
100
200
300
400
500
600


E1-222 Stainless Steel
1,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
175 psig (12.1 bar)
0
100
200
300
400
500
0
22.8
45.4
68.4
91
114


E1-222 Stainless Steel
1,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
175 psig (12.1 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
10
20
30
40
50
60
0
7.5
15
22.5
30
37.5
45
100
200
300
400
500


E1-222 Stainless Steel
10,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
175 psig (12.1 bar)
300
250
200
150
100
50
0
68.4
57
45.4
34
22.8
11.4
0
50
100
150
200
250
300


E1-222 Stainless Steel
10,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
175 psig (12.1 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
50
40
30
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0
37.5
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22.5
15
7.5
0
50
100
150
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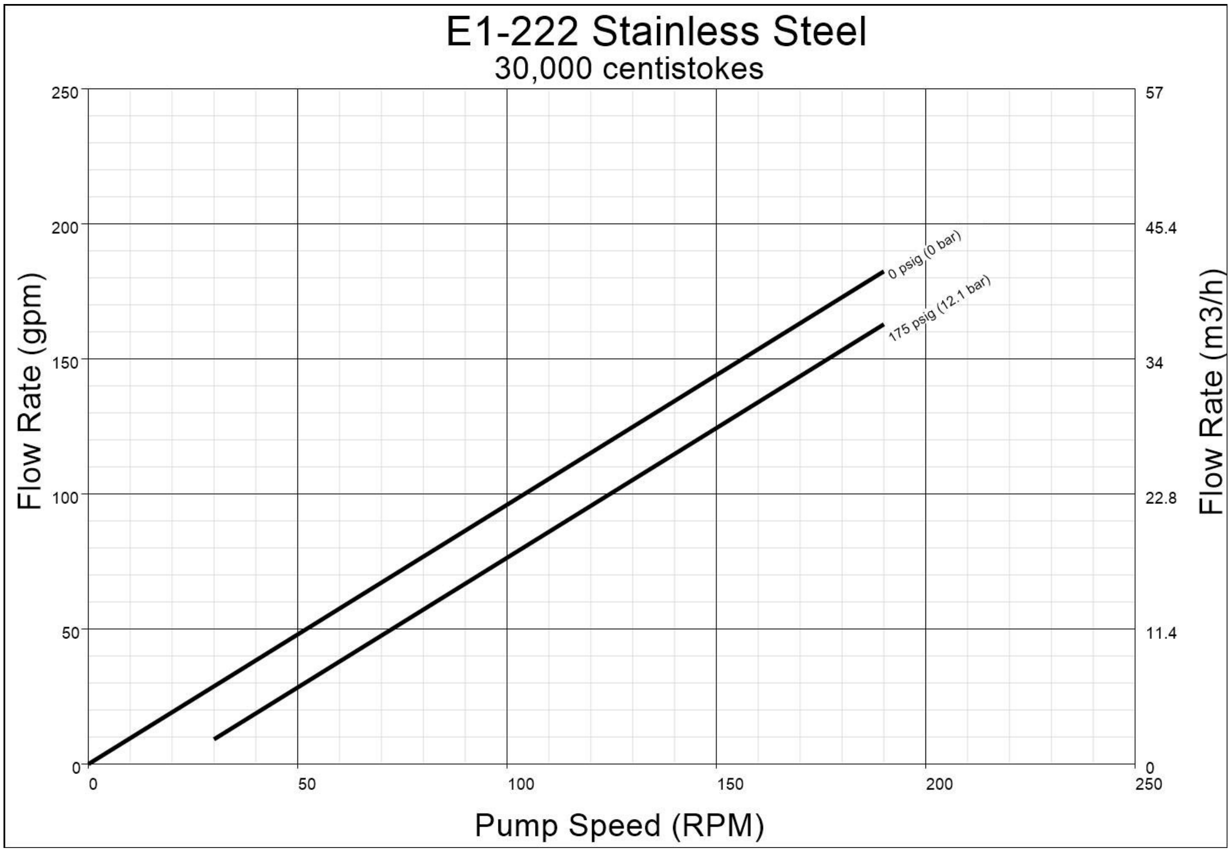
250
300


E1-222 Stainless Steel
30,000 centistokes
Flow Rate (gpm)
Flow Rate (m3/h)
Pump Speed (RPM)
0 psig (0 bar)
175 psig (12.1 bar)
0
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11.4
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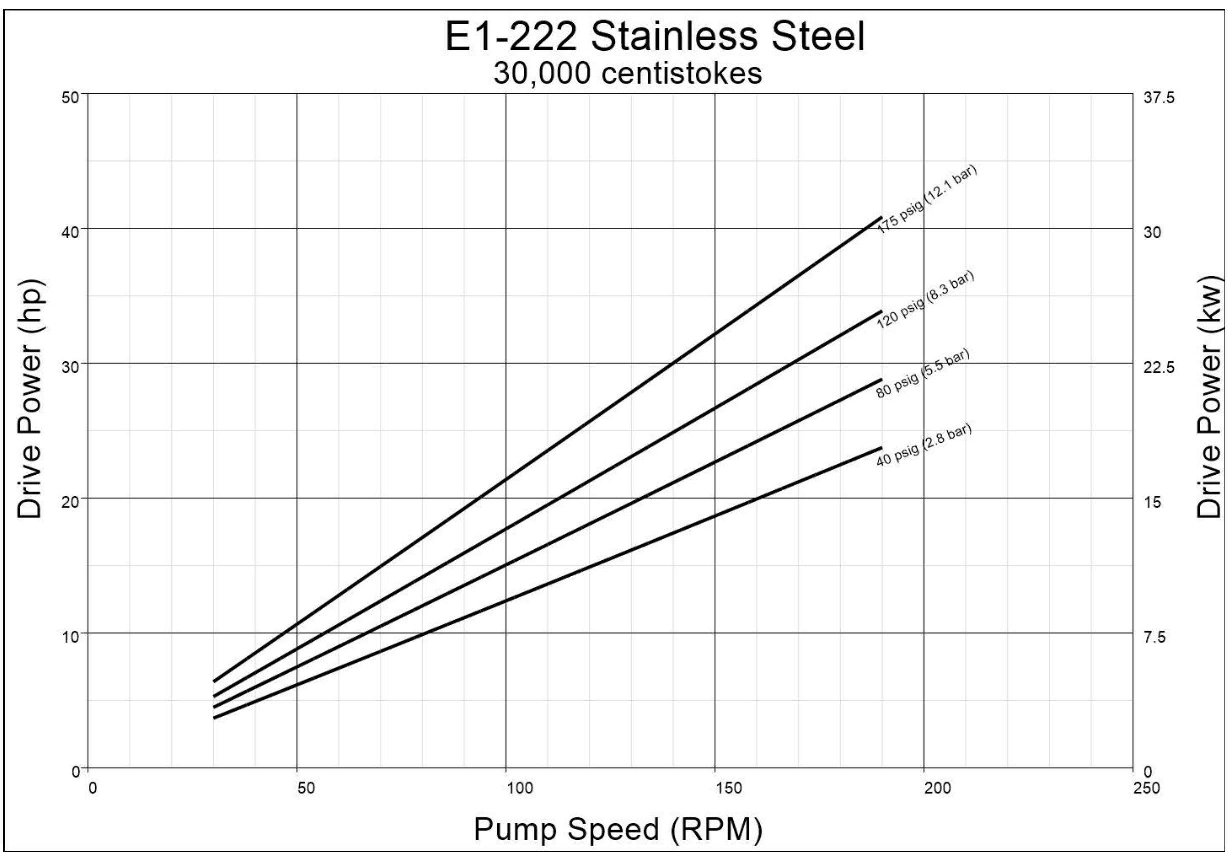
45.4
57


E1-222 Stainless Steel
30,000 centistokes
Drive Power (hp)
Drive Power (kw)
Pump Speed (RPM)
175 psig (12.1 bar)
120 psig (8.3 bar)
80 psig (5.5 bar)
40 psig (2.8 bar)
0
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7.5
15
22.5
30
37.5
100
150
200
250

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