

<p>Order Code</p> <p style="text-align: center;"> Gear Set Drive Mount </p> <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 10%;">Base Code</td> <td style="width: 10%;">1</td> <td style="width: 10%;">2</td> <td style="width: 10%;">3</td> <td style="width: 10%;">4</td> <td style="width: 10%;">5</td> <td style="width: 10%;">6</td> <td style="width: 10%;">7</td> <td style="width: 10%;">8</td> <td style="width: 10%;">Options</td> </tr> <tr> <td></td> <td>G</td> <td>C</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td colspan="3">Model</td> <td colspan="3">Wetted Materials</td> <td colspan="3">O/C: Pump S/K: Service Kit</td> </tr> </table>	Base Code	1	2	3	4	5	6	7	8	Options		G	C									Model			Wetted Materials			O/C: Pump S/K: Service Kit			<p>Pump Construction</p> <p>Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1)</p>
Base Code	1	2	3	4	5	6	7	8	Options																						
	G	C																													
	Model			Wetted Materials			O/C: Pump S/K: Service Kit																								

Base Code Select a code character for each numbered position to configure the product.

1	Code	Product Type	Specifications	Notes
	G	Gear Pump		
2	C	Product Series Series 220	Max System Pressure (MAWP) See Drive Mount	Ports 3/8-18 (F) NPT Side Ports
3	-	Design Modifier Standard Design		
4		Gear Set (Width/N°Gears/Pitch)	Displacement	Max Differential Pressure
	M23	0.350/2/20	0.81 ml/rev (0.21 gal/1000*rev)	8.7 Bar (125 psi)
	M25	0.750/2/20	1.82 ml/rev (0.48 gal/1000*rev)	8.7 Bar (125 psi)
	M35	0.750/3/20	3.48 ml/rev (0.92 gal/1000*rev)	5.2 Bar (75 psi)
5		Gear Material	Max Differential Pressure	Temp Range
	P	PPS (carbon fiber/ptfe)	5.2 Bar (75 psi)	-46/177°C (-50/350°F)
	J	PEEK (carbon fiber/ptfe)	8.7 Bar (125 psi)	-46/177°C (-50/350°F)
	K	PPSKV (aramid fiber)	5.2 Bar (75 psi)	-46/177°C (-50/350°F)
6		Static Seals		Temp Range
	V	Viton®		-29/204°C (-20/400°F)
	D	EP		-46/149°C (-50/300°F)
	B	Buna N		-29/121°C (-20/250°F)
	F5	TEV (Teflon® encap Viton®)		-29/204°C (-20/400°F)
	K	Kalrez®		-29/260°C (-20/500°F)
7		Base Materials		
	S	SS316		
	D	Alloy 20		
	T	Titanium		
	C	Hast C-276®		
	B	Hast B-2®		
8		Drive Mount	Max System Pressure (MAWP)	Weight (Pumphead)
	F	MP Housing (220 Style)	69 Bar (1000 psi)	1.7 kg (3.7 lbs)
	E	NEMA 56C	103 Bar (1500 psi)	2.7 kg (6.0 lbs)
	K	NEMA 143/145TC	103 Bar (1500 psi)	2.7 kg (6.0 lbs)
	3	IEC 63-B5	103 Bar (1500 psi)	2.7 kg (6.0 lbs)
	4	IEC 63-B14	103 Bar (1500 psi)	2.7 kg (6.0 lbs)
	5	IEC 71-B5	103 Bar (1500 psi)	2.7 kg (6.0 lbs)
	6	IEC 71-B14	103 Bar (1500 psi)	2.7 kg (6.0 lbs)
	12	IEC 71-B14 to "F" Mount	69 Bar (1000 psi)	2.7 kg (6.0 lbs)

Options Add Option codes after the Base Code to modify features or enhance the product.

Driven Magnet (PC12)			
M1	SmCo Driven (Segments)		2
Driving Magnet (PC13)			
N1	SmCo Driving (Segments)		1
N3	NdFeB Driving (Ring)		1
Ports/Fittings (PC17)		Ports	
F5	Tri-Clamp (TC25) Fittings	1/2" 316L SS Ferrule	
F11	ANSI Flanges (1", 600#)	99 Bar(1440 psi) Welded 316	

Notes

- 1 Application details required before order entry.
- 2 SmCo driven magnet not available for Gear Set M23. Application details required.


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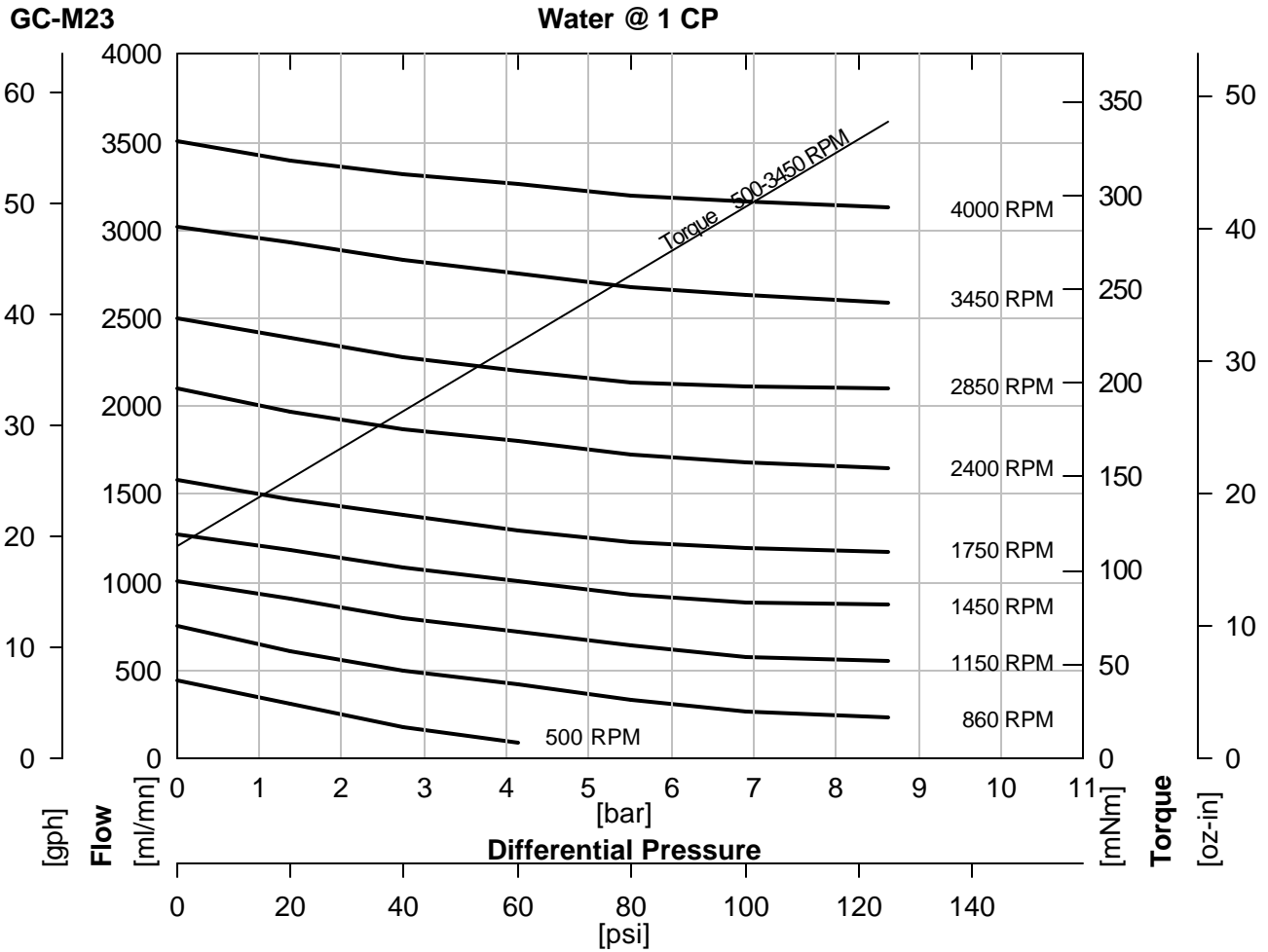
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	C	-	M23				
1	2	3	4	5	6	7	8
Model			Wetted Materials				O/C: Pump S/K: Service Kit
<p>Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1)</p> 							

Performance



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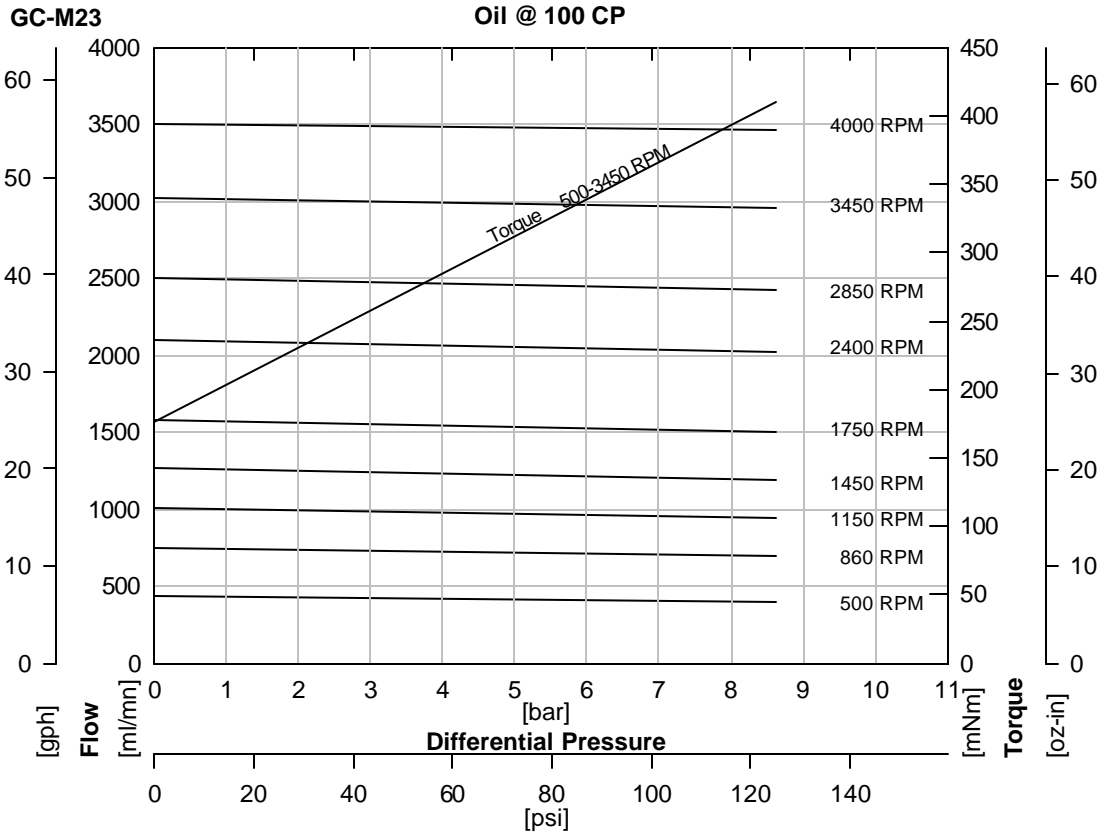
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Order Code				Pump Construction				
Base Code		Gear Set	Drive Mount		Options			
G	C	-	M23	5	7	8		
1	2	3	4	6	7	8		
Model				Wetted Materials		O/C: Pump S/K: Service Kit		
Pump Construction Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1)								

Performance-High Viscosity



$$\text{Watts} = \frac{\text{Torque [mNm]} \times \text{Speed [RPM]}}{9555}$$

$$\text{HP} = \frac{\text{Torque [oz-in]} \times \text{Speed [RPM]}}{1.008 \times 10^6}$$

To calculate torque, multiply correction factor by torque from viscosity curve above.

Torque Correction Factors: For Higher Viscosity Liquids				
Viscosity [cp]		1	100	1500
Max Speed [RPM]		6000	3450	1750
[Bar]	[psi]			
0.3	5	0.6	1	1.5
1.4	20	0.7	1	1.4
2.8	40	0.7	1	1.4
4.1	60	0.8	1	1.3
5.5	80	0.8	1	1.2
6.9	100	0.8	1	1.2
8.6	125	0.8	1	1.2

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
Ferrite	Ferrite	417	59
Ferrite	SmCo	551	78
Ferrite	NdFeB	742	105


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Base Code	Gear Set		Drive Mount	Options																	
G	C	-	M23																		
1	2	3	4	5																	
Model			Wetted Materials																		

Specification

	SI	US
Displacement	0.81 ml/rev	0.21 gal/1000*rev
Max Flow (4 Pole Speed)	1180 ml/mn 1450 RPM (50Hz)	23 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	2310 ml/mn 2850 RPM (50Hz)	45 gal/hr 3450 RPM (60Hz)
Max Differential Pressure	1 8.7 Bar	125 psi
Max System Pressure (MAWP)	See Drive Mount	See Drive Mount
NIPR (Absolute)	180 mBar	2.5 psia
Wet Lift (Typical)	2 51 cm.H2O (1450 RPM)	24 in.H2O (1750 RPM)
Temp Range	3 See Gear Material	See Gear Material
Viscosity Range	4 0.2 to 1500 cp	0.2 to 1500 cp
Max Speed	6,000 RPM	6,000 RPM
Rotation (Facing Motor Shaft)	CW	CW
Weight (Pumphead)	1.7 kg	3.7 lbs
Dimensions (LxWxH)	See Drawing	See Drawing
Ports	3/8-18 (F) NPT Side Ports	3/8-18 (F) NPT Side Ports
Driven Magnet (Standard)	Ferrite	Ferrite
Optional Internal Bypass	No	No

Notes

- 1 See Product Options. Max pressure depends on gear material.
- 2 Priming ability varies with operating conditions.
- 3 See Product Options for specific temp limits.
- 4 See Performance-High Viscosity for viscosity limits.

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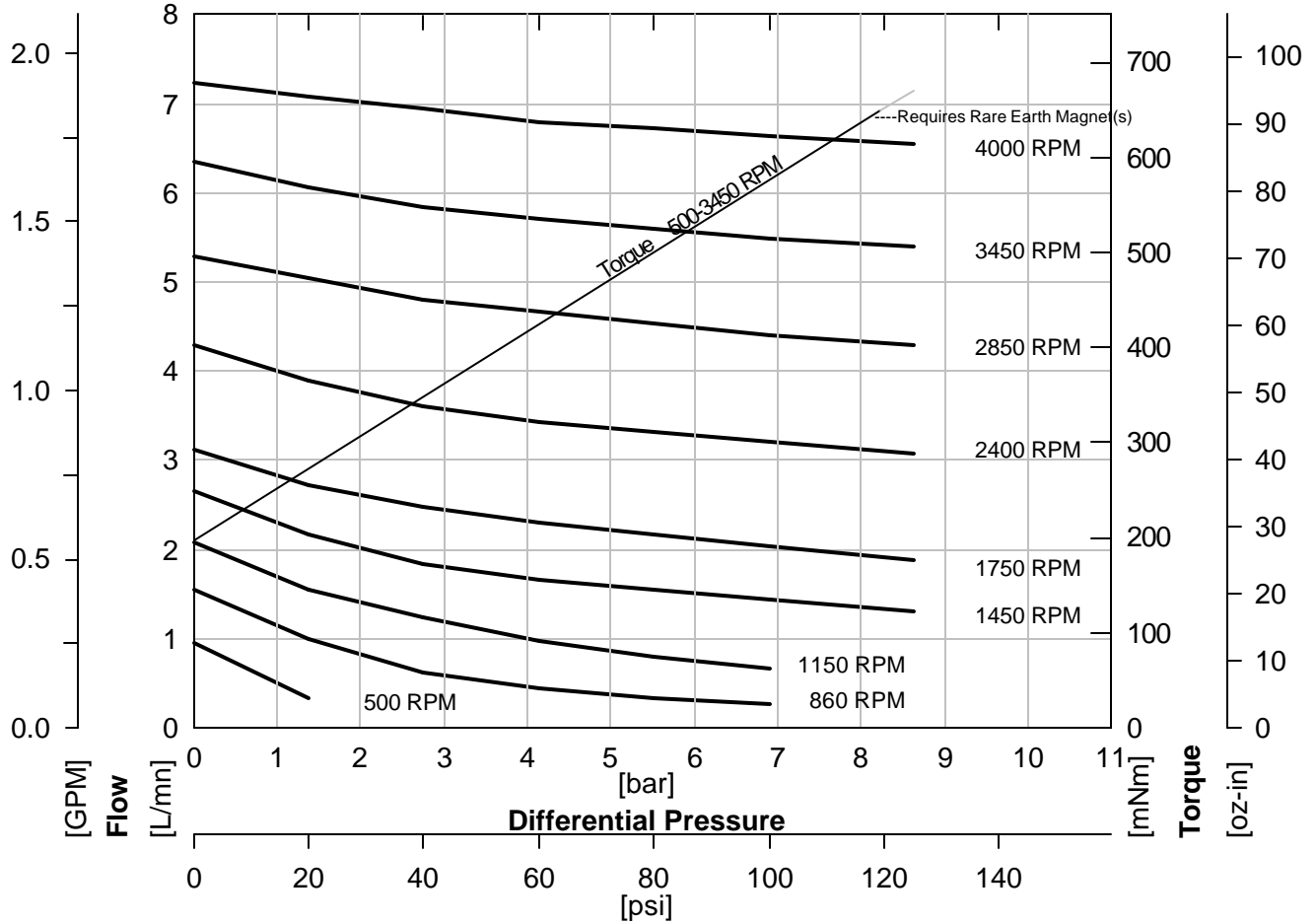
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Base Code		Gear Set		Drive Mount		Options	
G	C	-	M25				
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	
Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1)							



Performance

GC-M25

Water @ 1 CP



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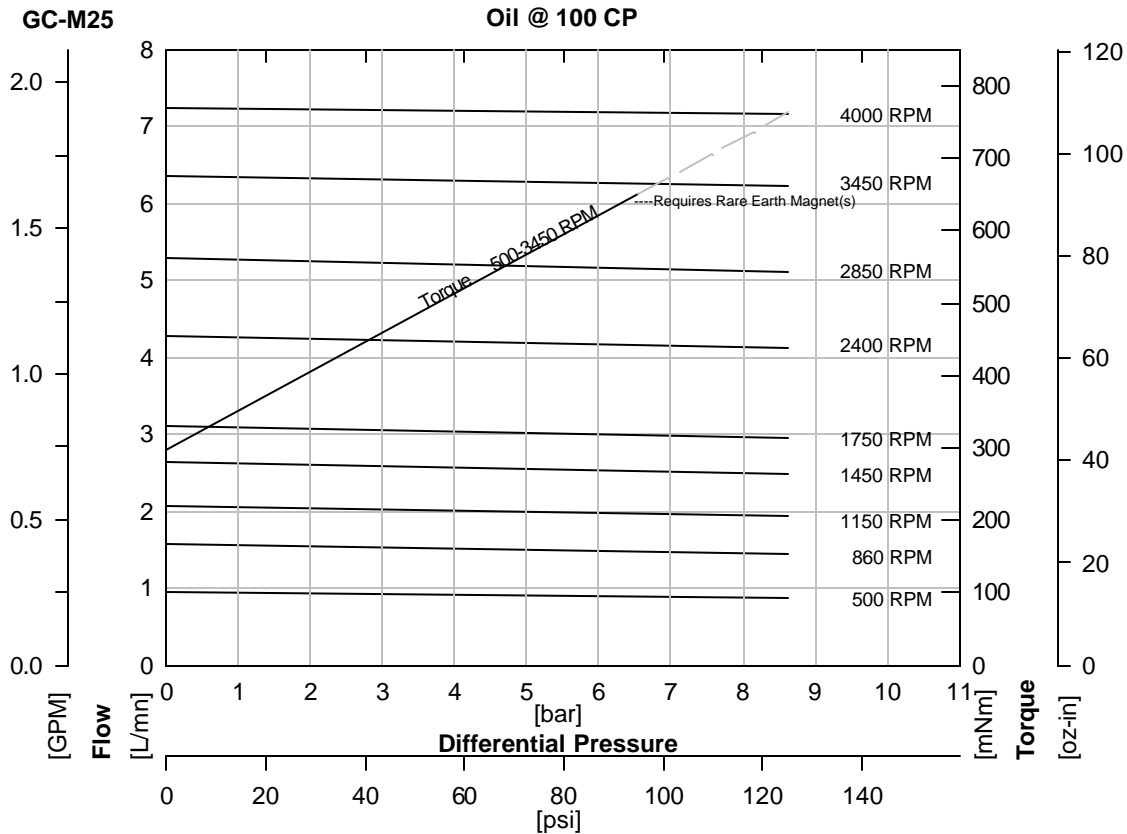
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	C	-	M25	5	6	7	8
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	
Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1)							



Performance-High Viscosity



$$\text{Watts} = \frac{\text{Torque [mNm]} \times \text{Speed [RPM]}}{9555}$$

$$\text{HP} = \frac{\text{Torque [oz-in]} \times \text{Speed [RPM]}}{1.008 \times 10^6}$$

To calculate torque, multiply correction factor by torque from viscosity curve above.

Torque Correction Factors: For Higher Viscosity Liquids				
Viscosity [cp]		1	100	1500
Max Speed [RPM]		3450	3450	860
[Bar]	[psi]			
0.3	5	0.7	1	1.0
1.4	20	0.7	1	1.0
2.8	40	0.8	1	1.0
4.1	60	0.8	1	1.0
5.5	80	0.8	1	1.0
6.9	100	0.9	1	1.0
8.6	125	0.9	1	1.0

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
Ferrite	Ferrite	643	91
Ferrite	SmCo	819	116
Ferrite	NdFeB	1073	152
SmCo	Ferrite	1222	173
SmCo	SmCo	1483	210
SmCo	NdFeB	1780	252


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Base Code	Gear Set		Drive Mount	Options																	
G	C	-	M25																		
1	2	3	4	5																	
Model			Wetted Materials																		

Specification

	SI	US
Displacement	1.82 ml/rev	0.48 gal/1000*rev
Max Flow (4 Pole Speed)	2640 ml/mn 1450 RPM (50Hz)	51 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	5.2 L/mn 2850 RPM (50Hz)	1.7 gal/mn 3450 RPM (60Hz)
Max Differential Pressure	1 8.7 Bar	125 psi
Max System Pressure (MAWP)	See Drive Mount	See Drive Mount
NIPR (Absolute)	180 mBar	2.5 psia
Wet Lift (Typical)	2 51 cm.H2O (1450 RPM)	24 in.H2O (1750 RPM)
Temp Range	3 See Gear Material	See Gear Material
Viscosity Range	4 0.2 to 1500 cp	0.2 to 1500 cp
Max Speed	4,000 RPM	4,000 RPM
Rotation (Facing Motor Shaft)	CW	CW
Weight (Pumphead)	1.7 kg	3.7 lbs
Dimensions (LxWxH)	See Drawing	See Drawing
Ports	3/8-18 (F) NPT Side Ports	3/8-18 (F) NPT Side Ports
Driven Magnet (Standard)	Ferrite	Ferrite
Optional Internal Bypass	No	No

Notes

- 1 See Product Options. Max pressure depends on gear material.
- 2 Priming ability varies with operating conditions.
- 3 See Product Options for specific temp limits.
- 4 See Performance-High Viscosity for viscosity limits.

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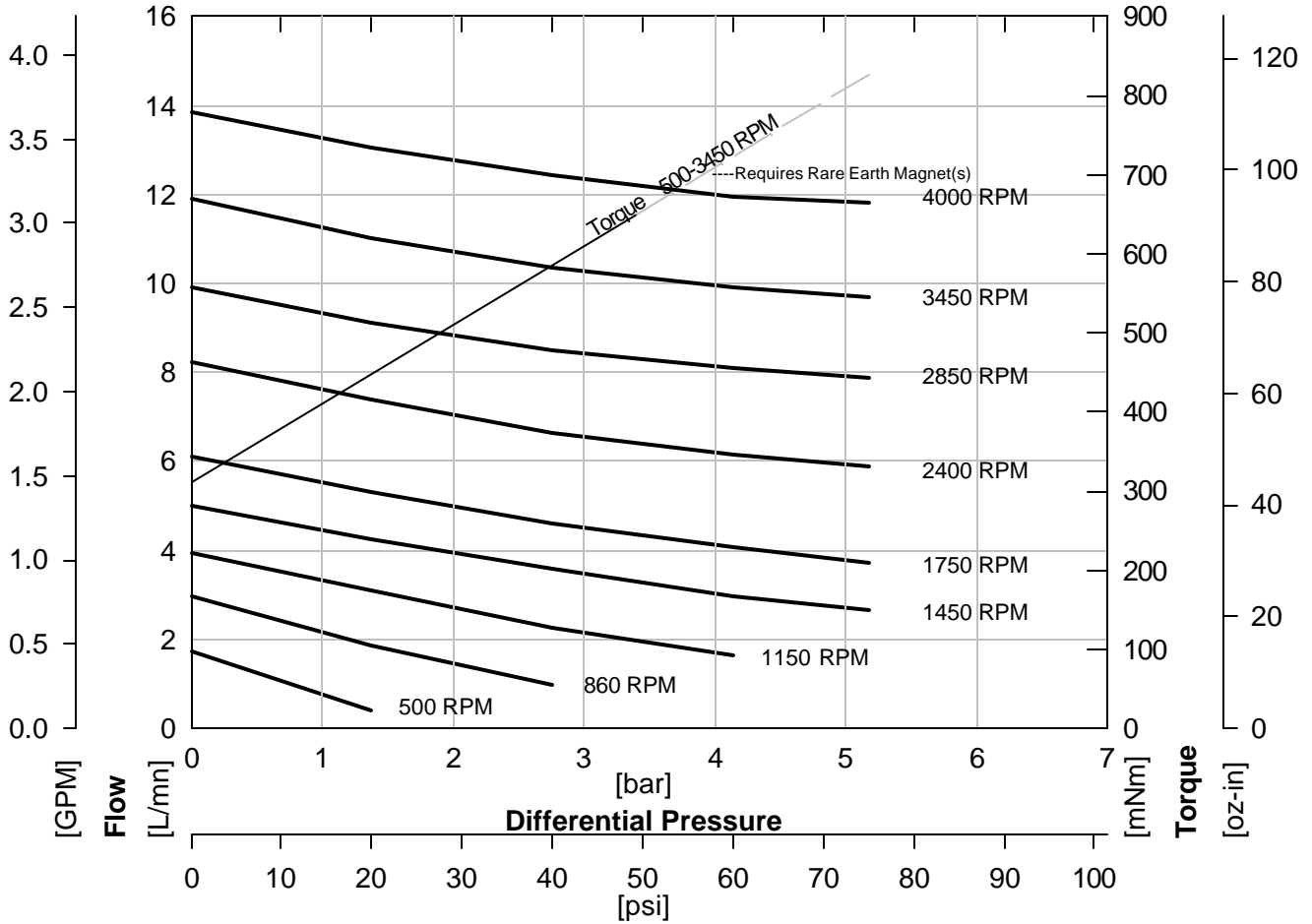
Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	C	-	M35				
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	



Performance

GC-M35

Water @ 1 CP



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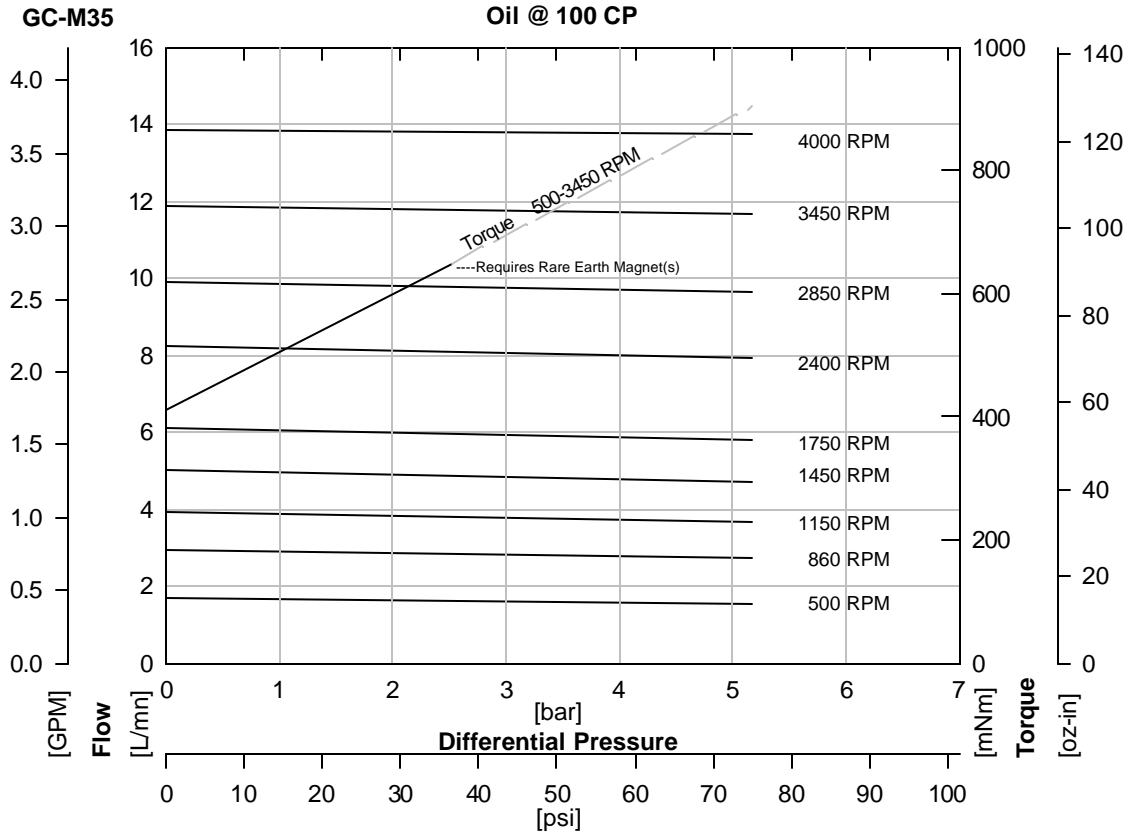
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	C	-	M35	•	•	•	•
1	2	3	4	5	6	7	8
Model			Wetted Materials				O/C: Pump S/K: Service Kit
Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1)							



Performance-High Viscosity



$$\text{Watts} = \frac{\text{Torque [mNm]} \times \text{Speed [RPM]}}{9555}$$


$$\text{HP} = \frac{\text{Torque [oz-in]} \times \text{Speed [RPM]}}{1.008 \times 10^6}$$

To calculate torque, multiply correction factor by torque from viscosity curve above.

Torque Correction Factors: For Higher Viscosity Liquids				
Viscosity [cp]		1	100	1500
Max Speed [RPM]		3450	3450	500
[Bar]	[psi]			
0.3	5	0.8	1	0.9
1.4	20	0.8	1	1.0
2.8	40	0.9	1	1.0
4.1	60	0.9	1	1.0
5.2	75	0.9	1	1.0

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz-in]
Ferrite	Ferrite	643	91
Ferrite	SmCo	819	116
Ferrite	NdFeB	1073	152
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Base Code	Gear Set		Drive Mount	Options																	
G	C	-	M35																		
1	2	3	4	5																	
Model			Wetted Materials																		

Specification

	SI	US
Displacement	3.48 ml/rev	0.92 gal/1000*rev
Max Flow (4 Pole Speed)	5.1 L/mn 1450 RPM (50Hz)	1.7 gal/mn 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	10.0 L/mn 2850 RPM (50Hz)	3.2 gal/mn 3450 RPM (60Hz)
Max Differential Pressure	1 5.2 Bar	75 psi
Max System Pressure (MAWP)	See Drive Mount	See Drive Mount
NIPR (Absolute)	180 mBar	2.5 psia
Wet Lift (Typical)	2 51 cm.H2O (1450 RPM)	24 in.H2O (1750 RPM)
Temp Range	3 See Gear Material	See Gear Material
Viscosity Range	4 0.2 to 1500 cp	0.2 to 1500 cp
Max Speed	4,000 RPM	4,000 RPM
Rotation (Facing Motor Shaft)	CW	CW
Weight (Pumphead)	1.7 kg	3.7 lbs
Dimensions (LxWxH)	See Drawing	See Drawing
Ports	3/8-18 (F) NPT Side Ports	3/8-18 (F) NPT Side Ports
Driven Magnet (Standard)	Ferrite	Ferrite
Optional Internal Bypass	No	No

Notes

- 1 See Product Options. Max pressure depends on gear material.
- 2 Priming ability varies with operating conditions.
- 3 See Product Options for specific temp limits.
- 4 See Performance-High Viscosity for viscosity limits.

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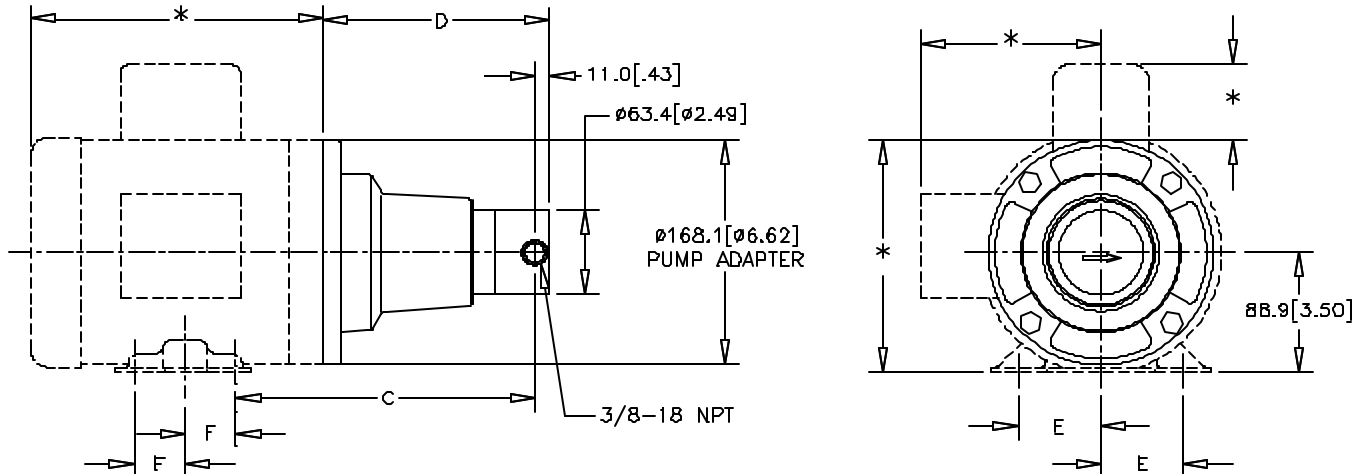
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Base Code		Gear Set		Drive Mount		Options		 <p>Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1)</p>	
G	C	-	M23			E			
1	2	3	4	5	6	7	8		
Model			Wetted Materials			O/C: Pump S/K: Service Kit			

Dimension



PUMP	MOUNT	C mm [in]	D mm [in]	E mm [in]	F mm [in]
GC-M23	^E NEMA 56C	206.4 [8.13]	152.1 [5.99]	61.9 [2.44]	38.1 [1.50]
	^K	201.5 [7.94]	152.1 [5.99]	69.9 [2.75]	50.8 [2.00]
	^K NEMA 145TC	201.5 [7.94]	152.1 [5.99]	69.9 [2.75]	63.5 [2.50]
GC-M25/M35 GD-M35	^E NEMA 56C	223.5 [8.80]	169.2 [6.66]	61.9 [2.44]	38.1 [1.50]
	^K NEMA 143TC	218.7 [8.61]	169.2 [6.66]	69.9 [2.75]	50.8 [2.00]
	^K NEMA 145TC	218.7 [8.61]	169.2 [6.66]	69.9 [2.75]	63.5 [2.50]

NOTES:

- *THESE DIMENSIONS WILL VARY BASED ON MOTOR SELECTION.
- ALL DIMENSIONS ARE NOMINAL.


ACTUAL PERFORMANCE MAY VARY - Specifications are subject to change without notice. When multiple specs are noted, the most conservative value applies.

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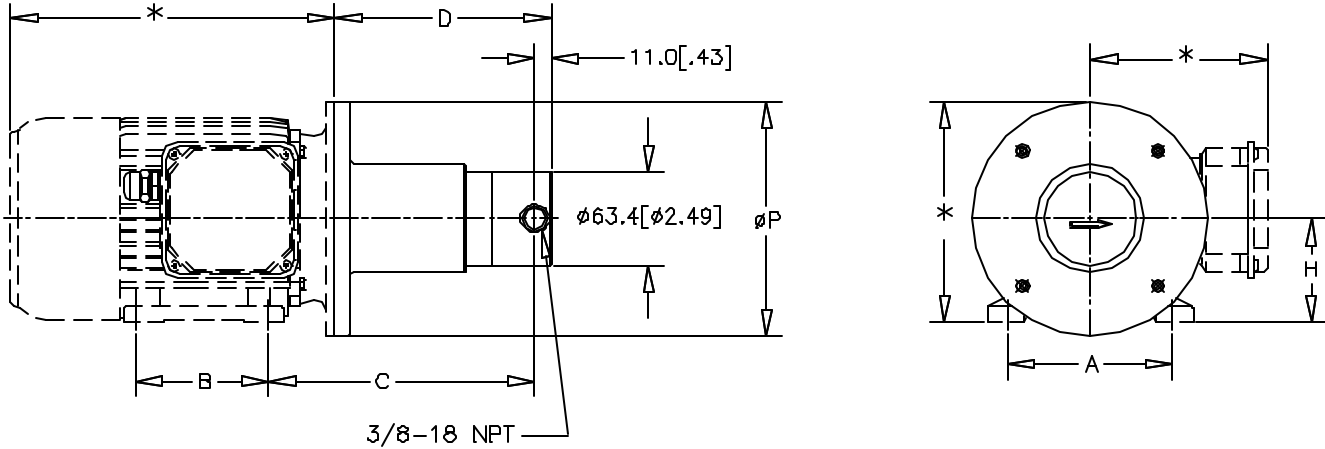
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info@micropump.com

www.micropump.com

Order Code								Pump Construction	
Base Code		Gear Set		Drive Mount		Options		 <p>Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1)</p>	
G	C	-	M23			3			
1	2	3	4	5	6	7	8		
Model			Wetted Materials			O/C: Pump S/K: Service Kit			

Dimension



PUMP	MOUNT	A mm [In]	B mm [In]	C mm [In]	D mm [In]	H mm [In]	P mm [In]
GC-M23	IEC ³ ₆₃ B5B3	100 [3.94]	80 [3.15]	151.8 [5.97]	122.7 [4.83]	63 [2.48]	140 [5.51]
	IEC ⁵ ₇₁ B5B3	112 [4.41]	90 [3.54]	163.7 [6.45]	122.7 [4.83]	71 [2.80]	160 [6.30]
GC-M25/M35 GD-M35	IEC ³ ₆₃ B5B3	100 [3.94]	80 [3.15]	168.9 [6.65]	139.9 [5.51]	63 [2.48]	140 [5.51]
	IEC ⁵ ₇₁ B5B3	112 [4.41]	90 [3.54]	180.9 [7.12]	139.9 [5.51]	71 [2.80]	160 [6.30]

NOTES:

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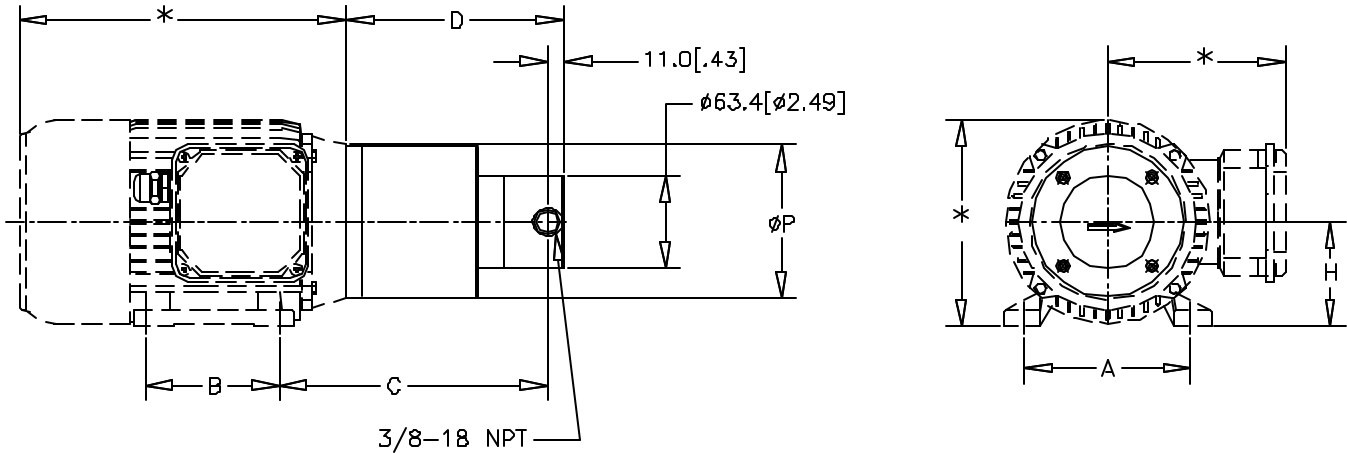
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Order Code								Pump Construction		
Base Code		Gear Set		Drive Mount		Options				
G	C	-	M23			4				Magnetic Drive Gear Pump
1	2	3	4	5	6	7	8			Suction Shoe Style
Model			Wetted Materials			O/C: Pump S/K: Service Kit		Two or Three Helical Gears/DP20		
								Stationary Shafts		
								O-Ring Seal (Qty 1)		

Dimension



PUMP	MOUNT	A mm [In]	B mm [In]	C mm [In]	D mm [In]	H mm [In]	P mm [In]
GC-M23	⁴ IEC63B14B3	100 [3.94]	80 [3.15]	151.8 [5.97]	122.7 [4.83]	63 [2.48]	90 [3.54]
	⁶ IEC71B14B3	112 [4.41]	90 [3.54]	163.7 [6.45]	122.7 [4.83]	71 [2.80]	105 [4.13]
GC-M25/M35 GD-M35	⁴ IEC63B14B3	100 [3.94]	80 [3.15]	168.9 [6.65]	139.9 [5.51]	63 [2.48]	90 [3.54]
	⁶ IEC71B14B3	112 [4.41]	90 [3.54]	180.9 [7.12]	139.9 [5.51]	71 [2.80]	105 [4.13]

NOTES:

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