



Series Overview

Series GC

Order Code								Options	
Base Code		Gear Set			Drive Mount				
G	C								
1	2	3	4	5	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)



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	Max System Pressure (MAWP)	Ports
	C	Series GC	See Drive Mount	3/8-18 (F) NPT Side Ports
3	-	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)
6		Static Seals		Temp Range
	D	EP		-46/149°C (-50/300°F)
	V	Viton®		-29/204°C (-20/400°F)
	F5	TEV (PTFE 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®		
8		Drive Mount	Max System Pressure (MAWP)	Weight (Pumphead)
	E	NEMA 56C	103 Bar (1500 psi)	2.7 kg (6.0 lbs)
	F	MICROPUMP F-MOUNT	103 Bar (1500 psi)	1.7 kg (3.7 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)

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

Driving Magnet (PC13)

- N3 NdFeB Driving (Ring)
CH20 137 Bar (2000 psi) Max System Pressure (MAWP)

Notes

PRICES ARE FOB/EX-WORKS FACTORY - Prices shown are the Manufacturer's Suggested List Price and are subject to change without notice.

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info.micropump@idexcorp.com

www.micropump.com

GC000S.2MPV



Technical Data

Series GC

Order Code										Options
Base Code			Gear Set		Drive Mount					O/C: Pump S/K: Service Kit
G	C	-	M23							
1	2	3	4	5	6	7	8			
Model			Wetted Materials							

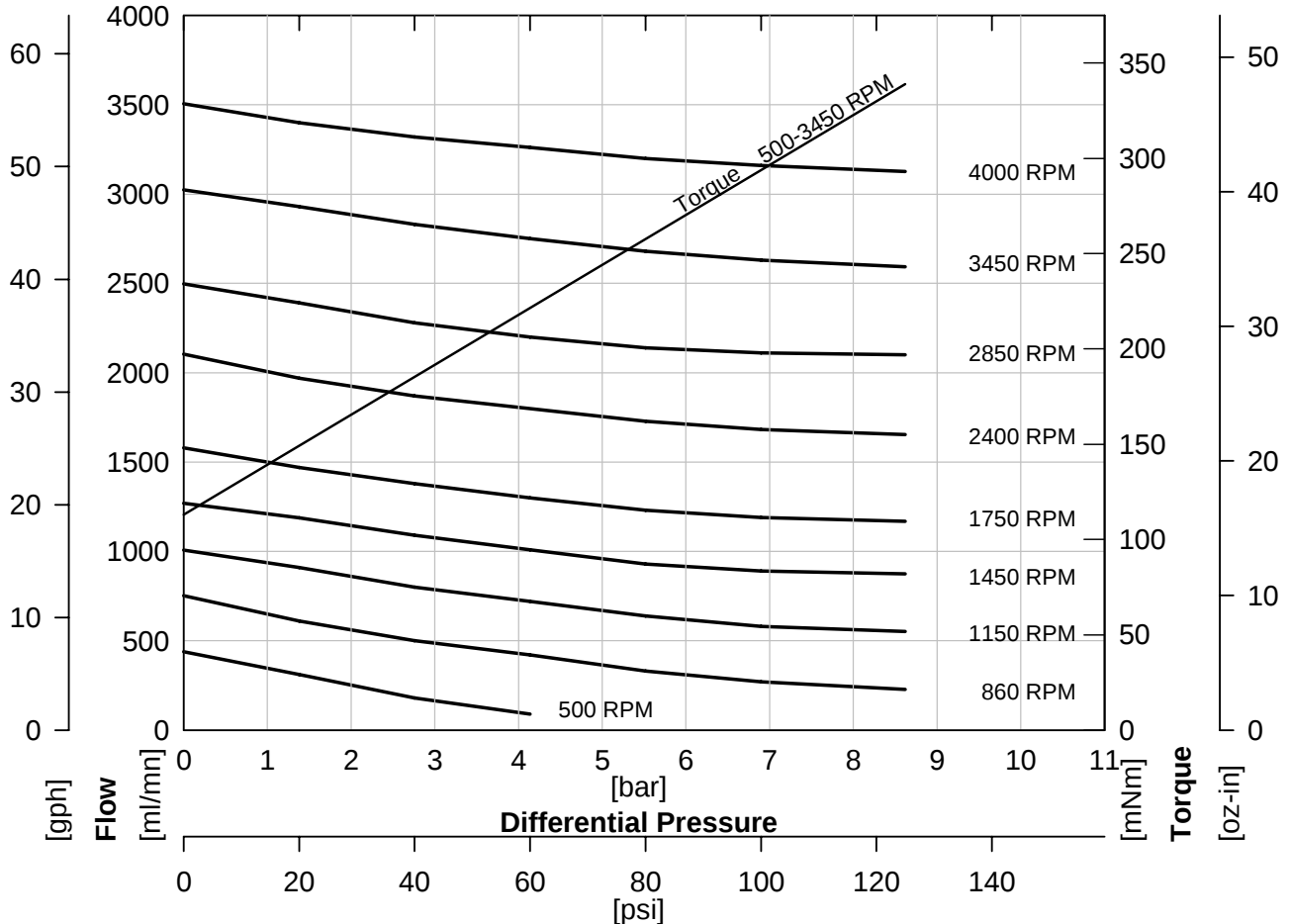
Pump Construction
Magnetic Drive Gear Pump
Suction Shoe Style
Two or Three Helical Gears/DP20
Stationary Shafts
O-Ring Seal (Qty 1)



Performance

GC-M23

Water @ 1 CP



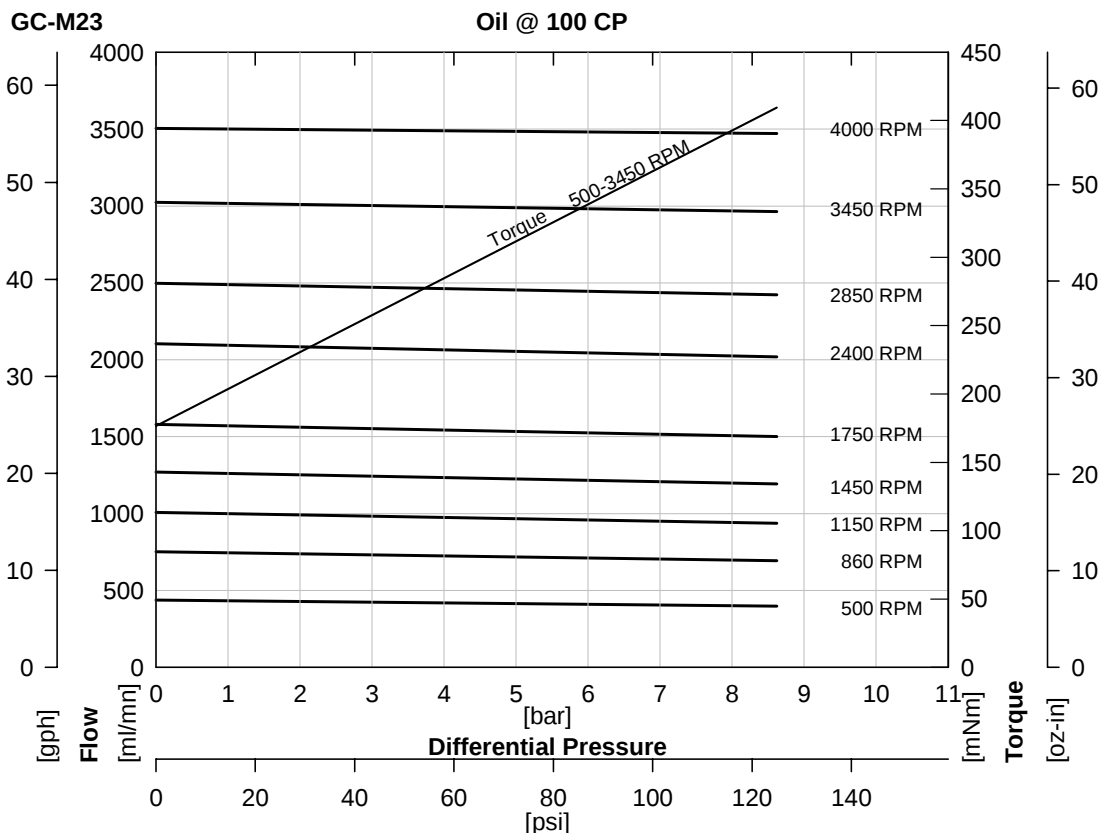
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Order Code				Pump Construction															
Base Code <table border="1"> <tr> <td>G</td> <td>C</td> <td>-</td> <td>M23</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>				G	C	-	M23	1	2	3	4	Options <table border="1"> <tr> <td>5</td> <td>6</td> <td>7</td> <td>8</td> </tr> </table>				5	6	7	8
G	C	-	M23																
1	2	3	4																
5	6	7	8																
Gear Set M23				Drive Mount O/C: Pump S/K: Service Kit															
Wetted Materials 1 2 3 4 5 6 7 8				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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Technical Data

Series GC

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

Specifications

	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)	5 See Drive Mount	See Drive Mount
NIPR (Absolute)	180 mBar	2.5 psia
Wet Lift (Typical)	2 51 cm.H ₂ O (1450 RPM)	24 in.H ₂ O (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

- See Product Options. Max pressure depends on gear material.
- Priming ability varies with operating conditions.
- See Product Options for specific temp limits.
- See Performance-High Viscosity for viscosity limits.
- MAWP may be higher for specific product versions.

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Technical Data

Series GC

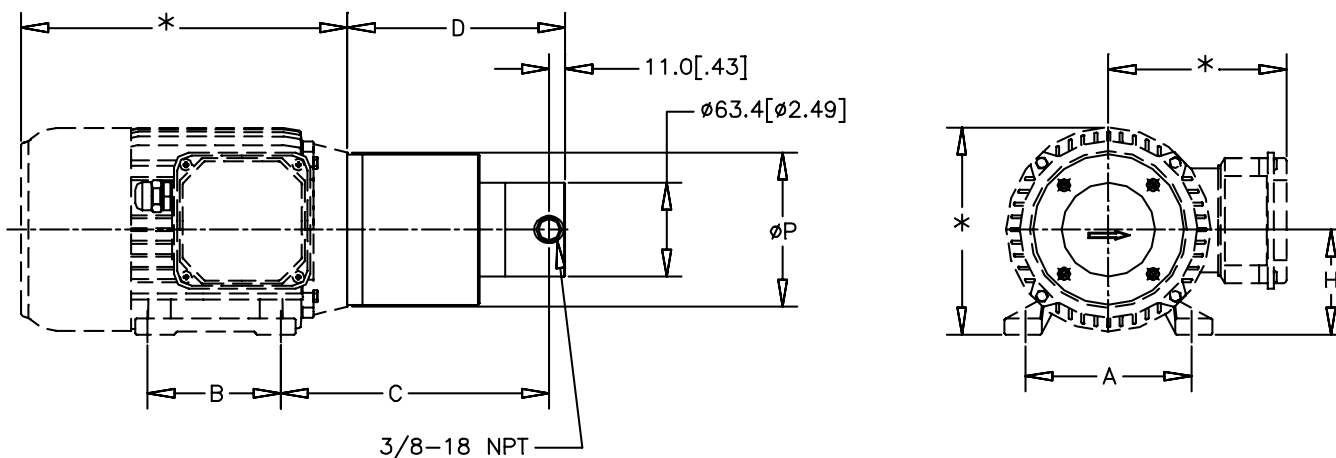
Order Code								Options		
Base Code			Gear Set		Drive Mount					
G	C	-	M23				4/6			
1	2	3	4	5	6	7	8			
Model			Wetted Materials					O/C: Pump S/K: Service Kit		

Pump Construction	
Magnetic Drive Gear Pump	
Suction Shoe Style	
Two or Three Helical Gears/DP20	
Stationary Shafts	
O-Ring Seal (Qty 1)	

Pump Construction

Magnetic Drive Gear Pump
 Suction Shoe Style
 Two or Three Helical Gears/DP20
 Stationary Shafts
 O-Ring Seal (Qty 1)

Dimensions



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]

NOTES:

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

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Order Code								Options		
Base Code			Gear Set		Drive Mount					
G	C	-	M23				E			
1	2	3	4	5	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

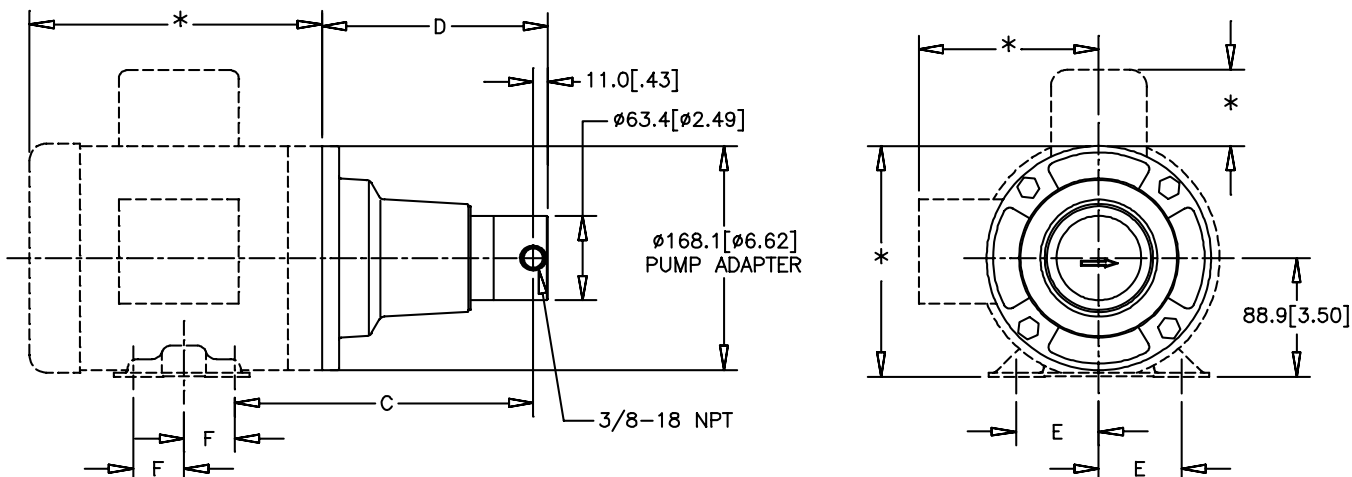
Stationary Shafts

O-Ring Seal (Qty 1)

Pump Construction

Magnetic Drive Gear Pump
 Suction Shoe Style
 Two or Three Helical Gears/DP20
 Stationary Shafts
 O-Ring Seal (Qty 1)

Dimensions



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]

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Technical Data

Series GC

Order Code

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	

Pump Construction

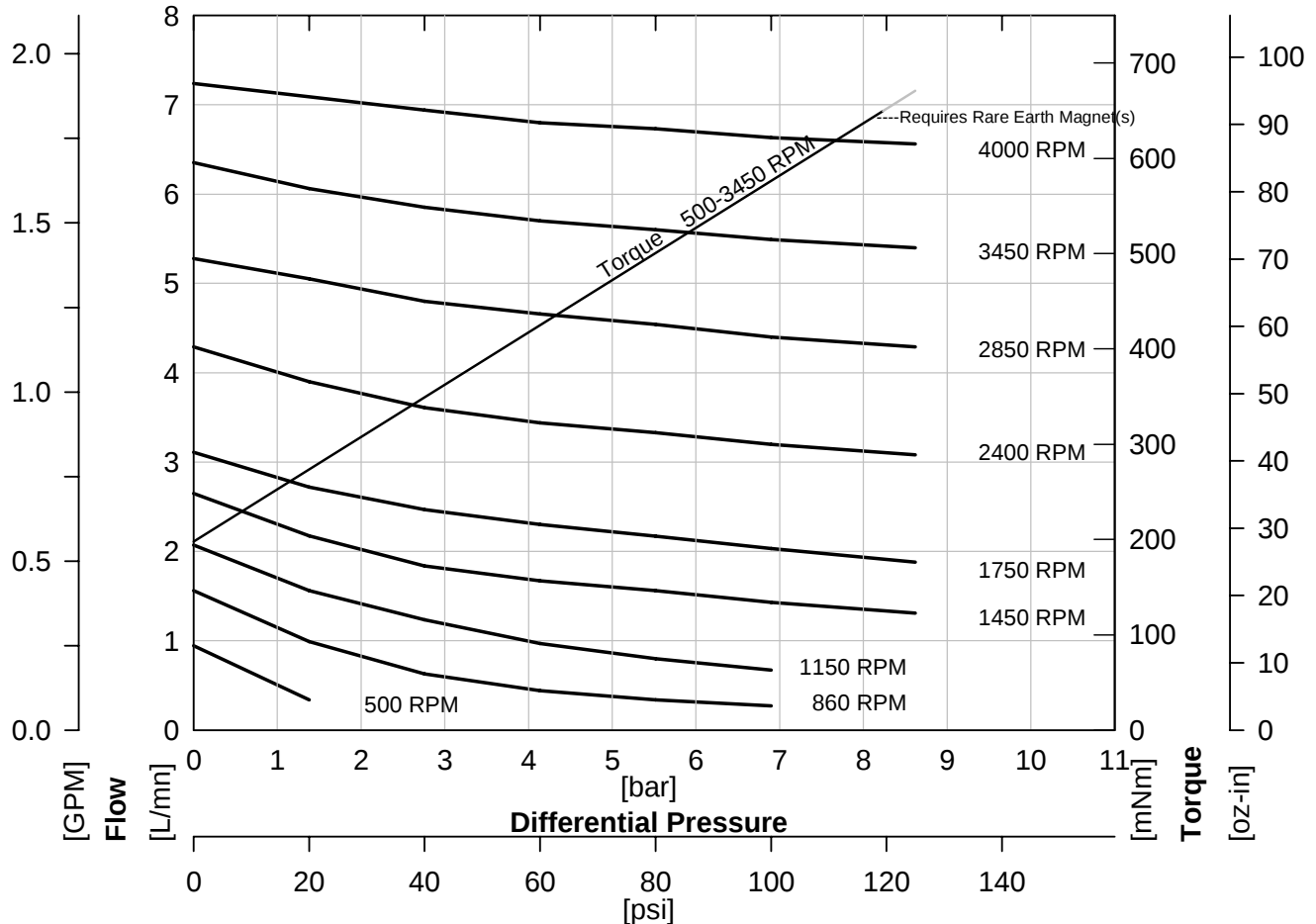
Magnetic Drive Gear Pump
Suction Shoe Style
Two or Three Helical Gears/DP20
Stationary Shafts
O-Ring Seal (Qty 1)



Performance

GC-M25

Water @ 1 CP



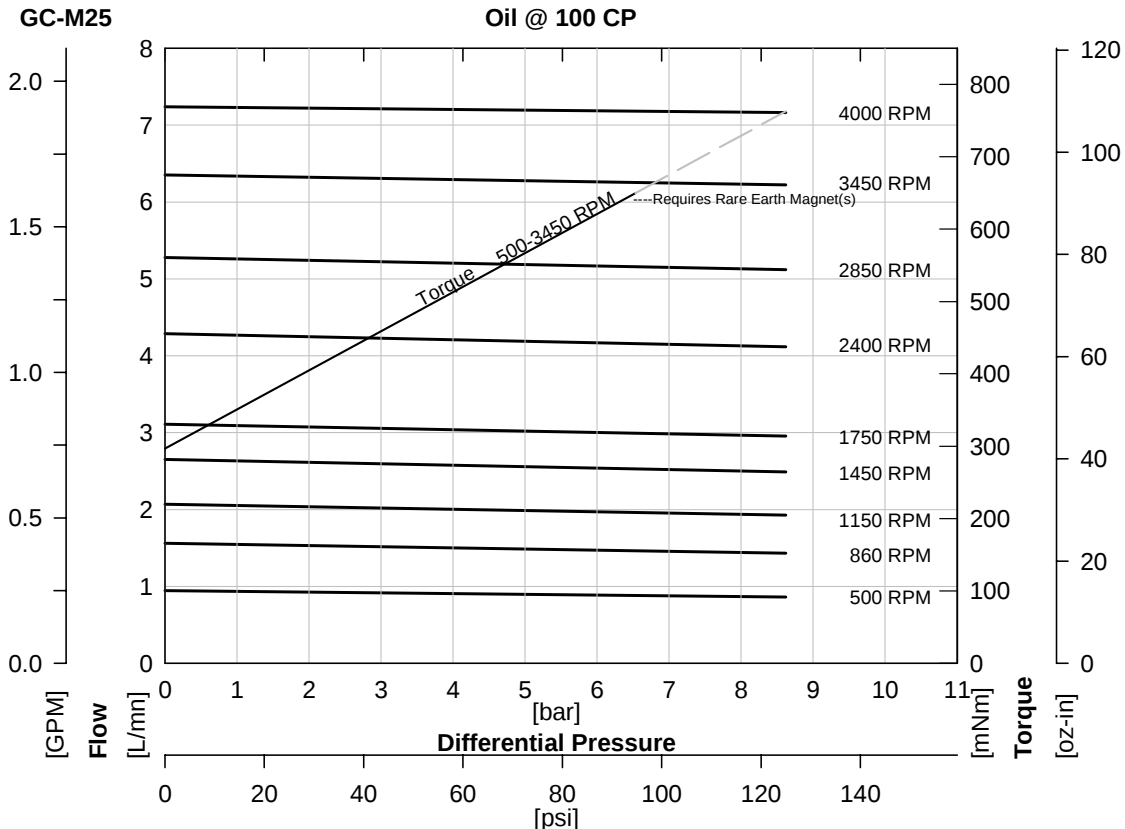
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Order Code										Options	Pump Construction
Base Code			Gear Set		Drive Mount						Magnetic Drive Gear Pump
G	C	-	M25								Suction Shoe Style
1	2	3	4	5	6	7	8				Two or Three Helical Gears/DP20
Model			Wetted Materials							Stationary Shafts	
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

Series GC

Order Code										Options	Pump Construction
Base Code			Gear Set		Drive Mount						
G	C	-	M25								
1	2	3	4	5	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)

Specifications

	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)	⁵ See Drive Mount	See Drive Mount
NIPR (Absolute)	180 mBar	2.5 psia
Wet Lift (Typical)	² 51 cm.H ₂ O (1450 RPM)	24 in.H ₂ O (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

- See Product Options. Max pressure depends on gear material.
- Priming ability varies with operating conditions.
- See Product Options for specific temp limits.
- See Performance-High Viscosity for viscosity limits.
- MAWP may be higher for specific product versions.

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Technical Data

Series GC

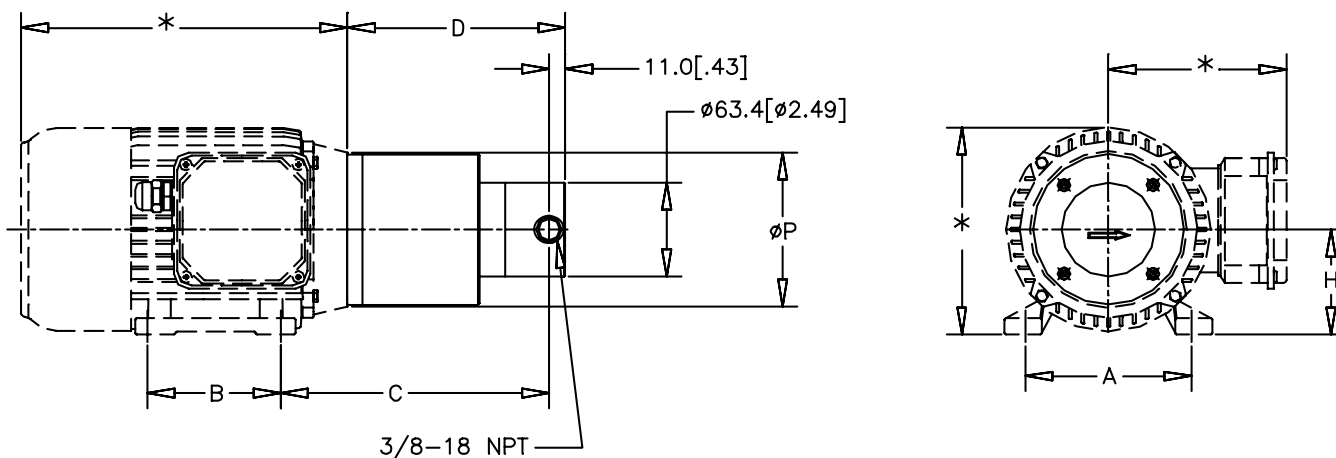
Order Code								Options		
Base Code			Gear Set		Drive Mount					
G	C	-	M25				4/6			
1	2	3	4	5	6	7	8			
Model			Wetted Materials					O/C: Pump S/K: Service Kit		

Pump Construction	
Magnetic Drive Gear Pump	
Cavity Style	
Three Helical Gears/DP20	
Stationary Shafts	
O-Ring Seal (Qty 1)	

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Three Helical Gears/DP20
Stationary Shafts
O-Ring Seal (Qty 1)

Dimensions



PUMP	MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
GC-M25/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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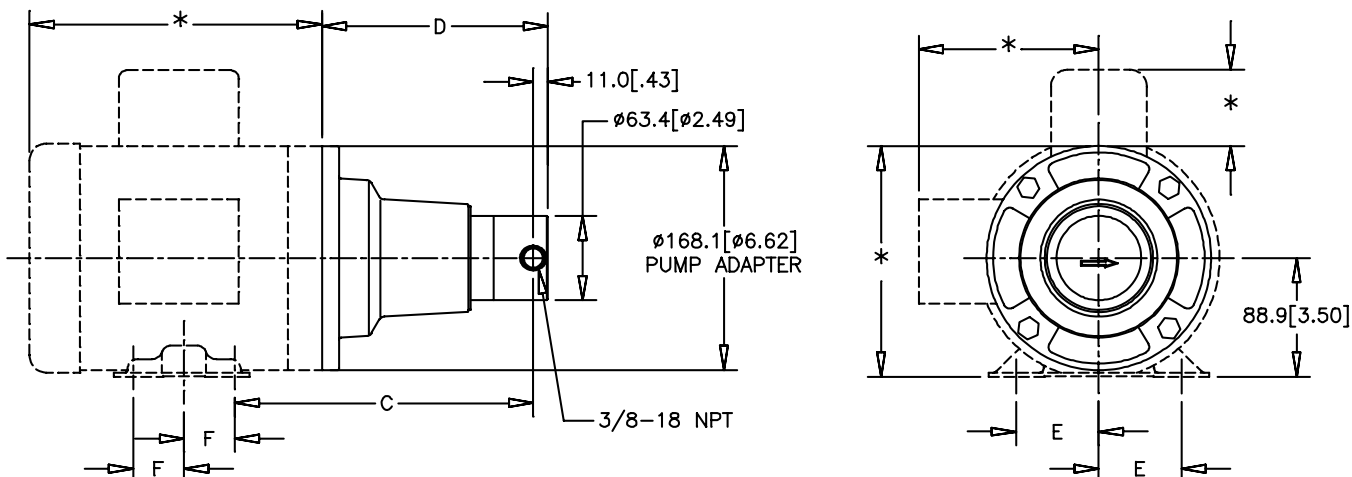
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<u>Order Code</u>								<u>Pump Construction</u>		
Base Code		Gear Set		Drive Mount		Options		Magnetic Drive Gear Pump		
G	C	-	M25			E		Suction Shoe Style		
1	2	3	4	5	6	7	8	Two or Three Helical Gears/DP20		
Model			Wetted Materials			O/C: Pump S/K: Service Kit		Stationary Shafts		
								O-Ring Seal (Qty 1)		

Pump Construction

Magnetic Drive Gear Pump
Suction Shoe Style
Two or Three Helical Gears/DP20
Stationary Shafts
O-Ring Seal (Qty 1)

Dimensions



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]

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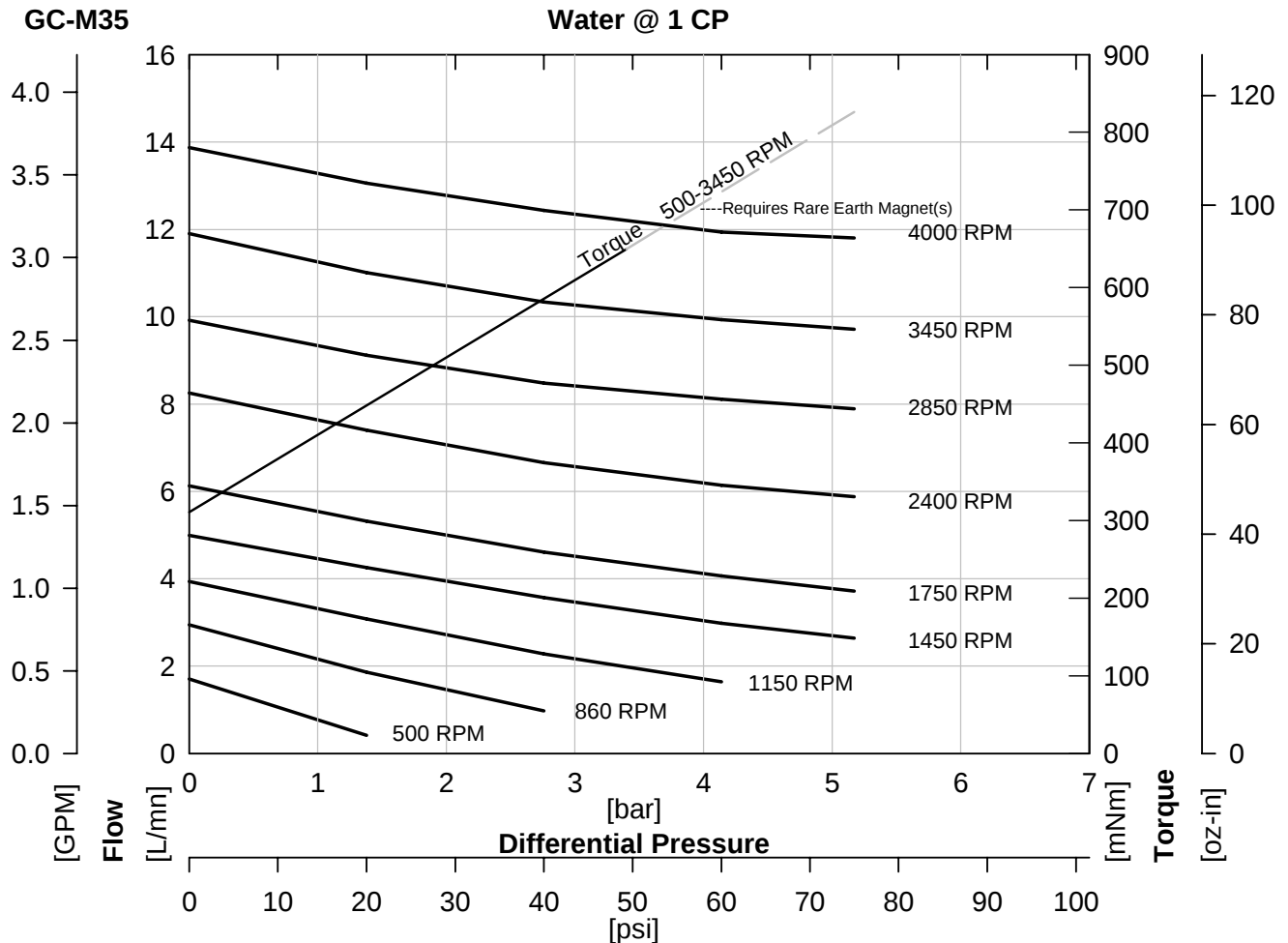
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Order Code										Options
Base Code			Gear Set		Drive Mount					
G	C	-	M35							
1	2	3	4	5	6	7	8	Wetted Materials		
										O/C: Pump S/K: Service Kit



Pump Construction
 Magnetic Drive Gear Pump
 Suction Shoe Style
 Two or Three Helical Gears/DP20
 Stationary Shafts
 O-Ring Seal (Qty 1)

Performance



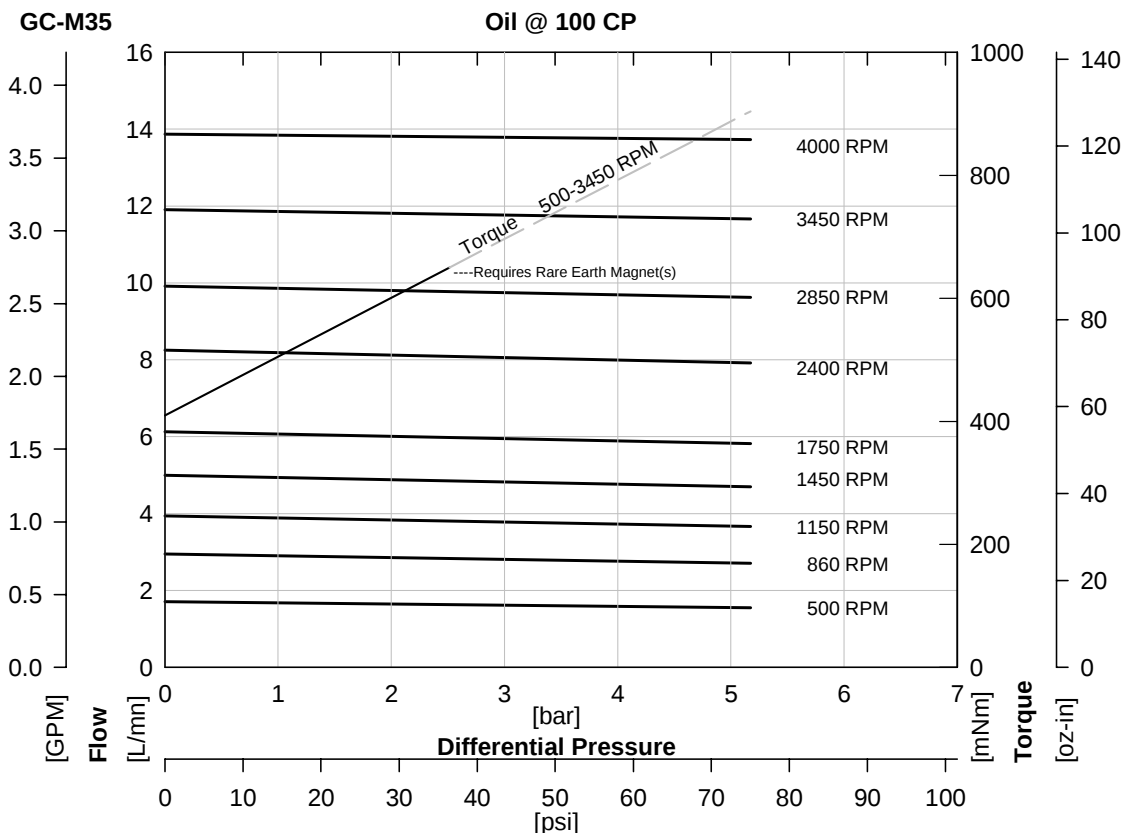
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Order Code								Options		Pump Construction	
Base Code		Gear Set		Drive Mount							
G	C	-	M35							Magnetic Drive Gear Pump	
1	2	3	4	5	6	7	8			Suction Shoe Style	
Model								Wetted Materials		Two or Three Helical Gears/DP20	
								O/C: Pump S/K: Service Kit		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
SmCo	Ferrite	1222	173
SmCo	SmCo	1483	210
SmCo	NdFeB	1780	252

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Technical Data

Series GC

Order Code										Options	Pump Construction
Base Code			Gear Set		Drive Mount						
G	C	-	M35								
1	2	3	4	5	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)

Specifications

	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)	⁵ See Drive Mount	See Drive Mount
NIPR (Absolute)	180 mBar	2.5 psia
Wet Lift (Typical)	² 51 cm.H ₂ O (1450 RPM)	24 in.H ₂ O (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

- See Product Options. Max pressure depends on gear material.
- Priming ability varies with operating conditions.
- See Product Options for specific temp limits.
- See Performance-High Viscosity for viscosity limits.
- MAWP may be higher for specific product versions.

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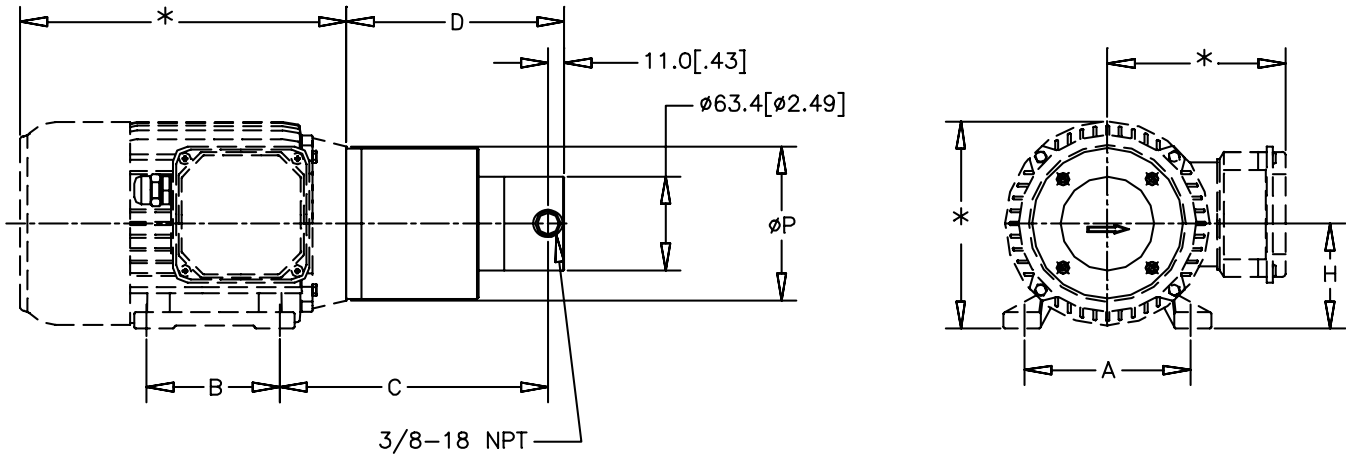
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Order Code								Options		
Base Code			Gear Set		Drive Mount					
G	C	-	M35				4/6			
1	2	3	4	5	6	7	8			
Model			Wetted Materials					O/C: Pump S/K: Service Kit		

Pump Construction	
Magnetic Drive Gear Pump	
Cavity Style	
Three Helical Gears/DP20	
Stationary Shafts	
O-Ring Seal (Qty 1)	

Pump Construction
 Magnetic Drive Gear Pump
 Cavity Style
 Three Helical Gears/DP20
 Stationary Shafts
 O-Ring Seal (Qty 1)

Dimensions



PUMP	MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
GC-M25/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:

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

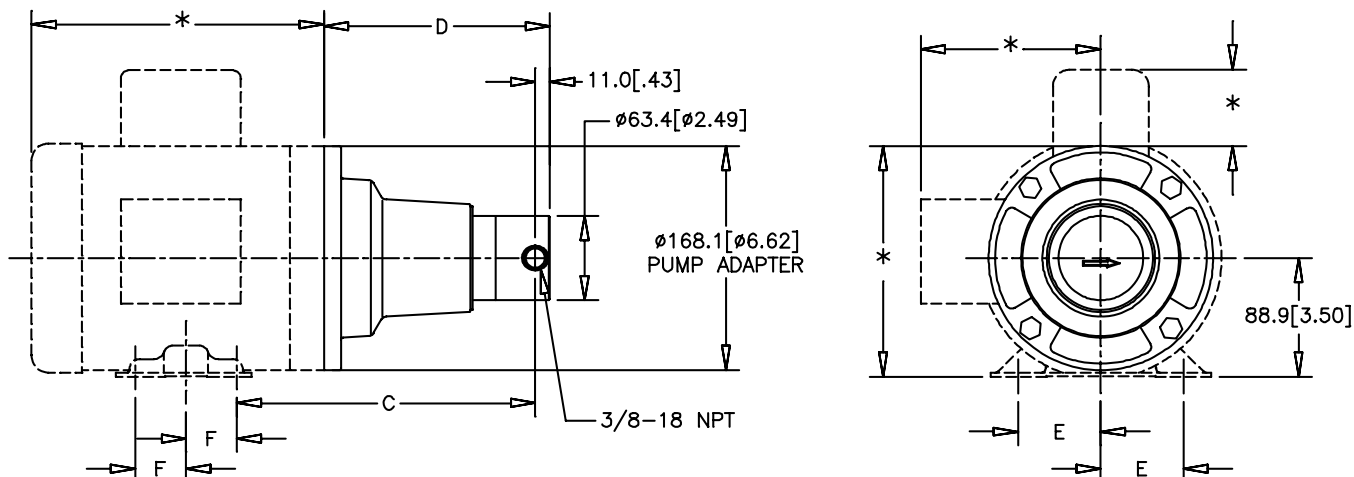
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<u>Order Code</u>										
Base Code		Gear Set		Drive Mount		Options				
G	C	-	M35				E			
1	2	3	4	5	6	7	8			
Model			Wetted Materials				O/C: Pump S/K: Service Kit			

<u>Pump Construction</u>	
Magnetic Drive Gear Pump	
Suction Shoe Style	
Two or Three Helical Gears/DP20	
Stationary Shafts	
O-Ring Seal (Qty 1)	

Dimensions



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:

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