


<p>Order Code</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">Base Code</td> <td style="border: 1px solid black; padding: 2px;">Gear Set</td> <td style="border: 1px solid black; padding: 2px;">Drive Mount</td> <td style="border: 1px solid black; padding: 2px;">Options</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">G</td> <td style="border: 1px solid black; padding: 2px;">D</td> <td style="border: 1px solid black; padding: 2px;">-</td> <td style="border: 1px solid black; padding: 2px;">M35</td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;"> </td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6</td> <td style="text-align: center;">7</td> <td style="text-align: center;">8</td> <td colspan="2"></td> </tr> <tr> <td colspan="4" style="text-align: center;">Model</td> <td colspan="4" style="text-align: center;">Wetted Materials</td> <td colspan="2"></td> </tr> </table> </td> <td style="border: 1px solid black; padding: 2px;"></td> <td style="border: 1px solid black; padding: 2px;"></td> <td style="border: 1px solid black; padding: 2px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">O/C: Pump</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">S/K: Service Kit</td> </tr> </table> </td> </tr> </table>	Base Code	Gear Set	Drive Mount	Options	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">G</td> <td style="border: 1px solid black; padding: 2px;">D</td> <td style="border: 1px solid black; padding: 2px;">-</td> <td style="border: 1px solid black; padding: 2px;">M35</td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;"> </td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6</td> <td style="text-align: center;">7</td> <td style="text-align: center;">8</td> <td colspan="2"></td> </tr> <tr> <td colspan="4" style="text-align: center;">Model</td> <td colspan="4" style="text-align: center;">Wetted Materials</td> <td colspan="2"></td> </tr> </table>	G	D	-	M35							1	2	3	4	5	6	7	8			Model				Wetted Materials								<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">O/C: Pump</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">S/K: Service Kit</td> </tr> </table>	O/C: Pump	S/K: Service Kit	<p>Pump Construction</p> <ul style="list-style-type: none"> Magnetic Drive Gear Pump Cavity Style Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1) 
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Product Options

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

1	Code	Product Type	Specifications	Notes
	G	Gear Pump		
2	D	Product Series Series GD	<i>Max System Pressure (MAWP)</i> See Drive Mount	<i>Ports</i> 3/8-18 (F) NPT Side Ports
3	-	Modifier Standard Design		
4	M35	Gear Set (Width/N°Gears/Pitch) 0.750/3/20	<i>Displacement</i> 3.48 ml/rev (0.92 gal/1000*rev)	<i>Max Differential Pressure</i> 6.9 Bar (100 psi) <i>Driven Magnet (Standard)</i> Ferrite
5	2 J P	Gear Material A10 PEEK (carbon fiber/ptfe) PPS (carbon fiber/ptfe)		<i>Max Differential Pressure</i> 5.2 Bar (75 psi) 8.7 Bar (125 psi) 5.2 Bar (75 psi) <i>Temp Range</i> -46/260°C (-50/500°F) -46/121°C (-50/250°F) -46/121°C (-50/250°F)
6	V D K F5	Static Seals Viton® EP Kalrez® TEV (PTFE encap Viton®)		<i>Temp Range</i> -29/204°C (-20/400°F) -46/149°C (-50/300°F) -29/260°C (-20/500°F) -29/204°C (-20/400°F)
7	C D S T	Base Materials Hast C-276® Alloy 20 SS316 Titanium		
8	E 4 6	Drive Mount NEMA 56C IEC 63-B14 IEC 71-B14	<i>Max System Pressure (MAWP)</i> 103 Bar (1500 psi) 103 Bar (1500 psi) 103 Bar (1500 psi)	<i>Weight (Pumphead)</i> 2.7 kg (6.0 lbs) 2.7 kg (6.0 lbs) 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)

Notes

- 1 price adder for service kit includes cavity plate
- 2 Available only with Hybrid/Abrasive Modifier PC3 R

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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Technical Data

Series GD

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

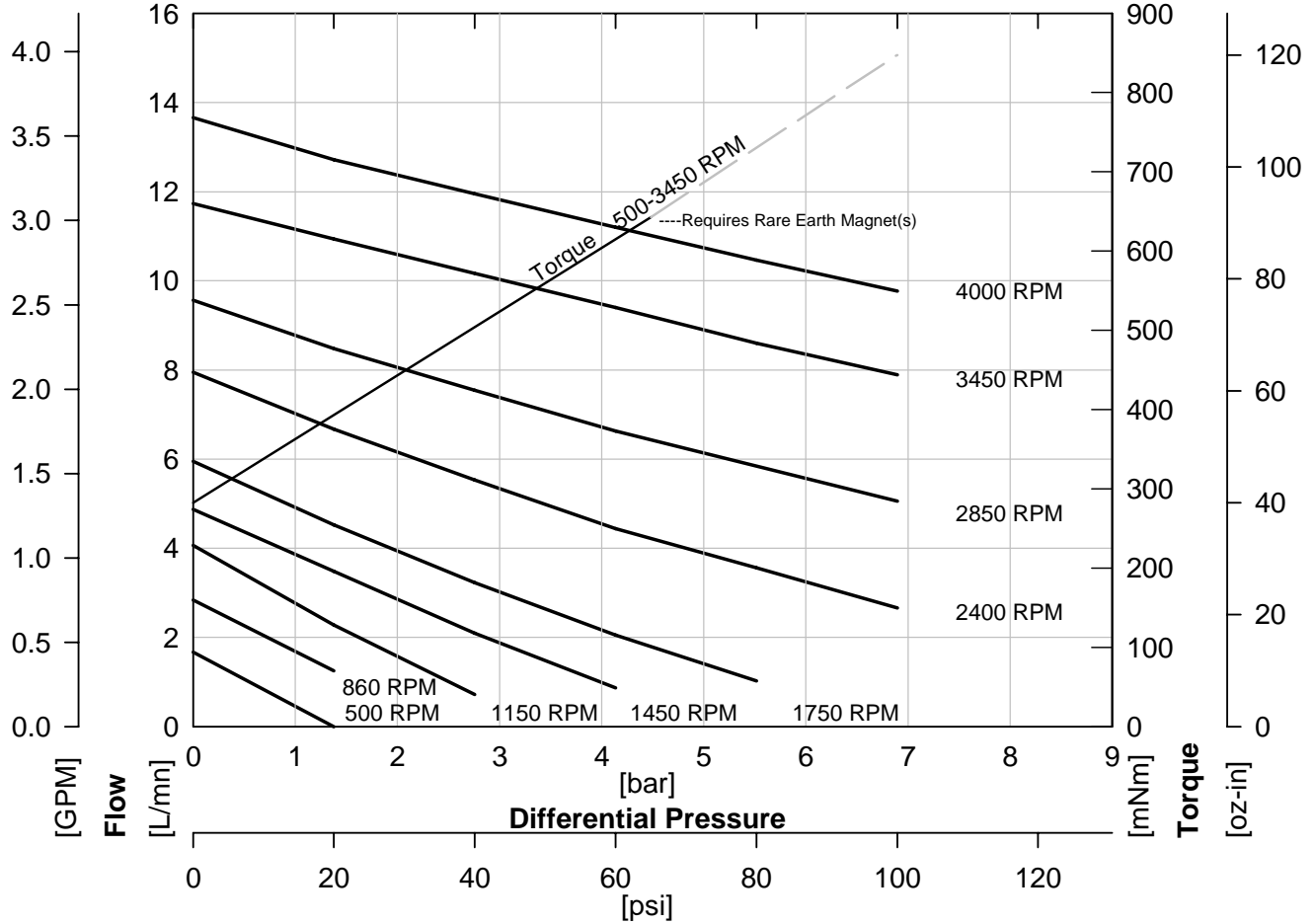
Pump Construction
 Magnetic Drive Gear Pump
 Cavity Style
 Three Helical Gears/DP20
 Stationary Shafts
 O-Ring Seal (Qty 1)



Performance

GD-M35

Water @ 1 CP



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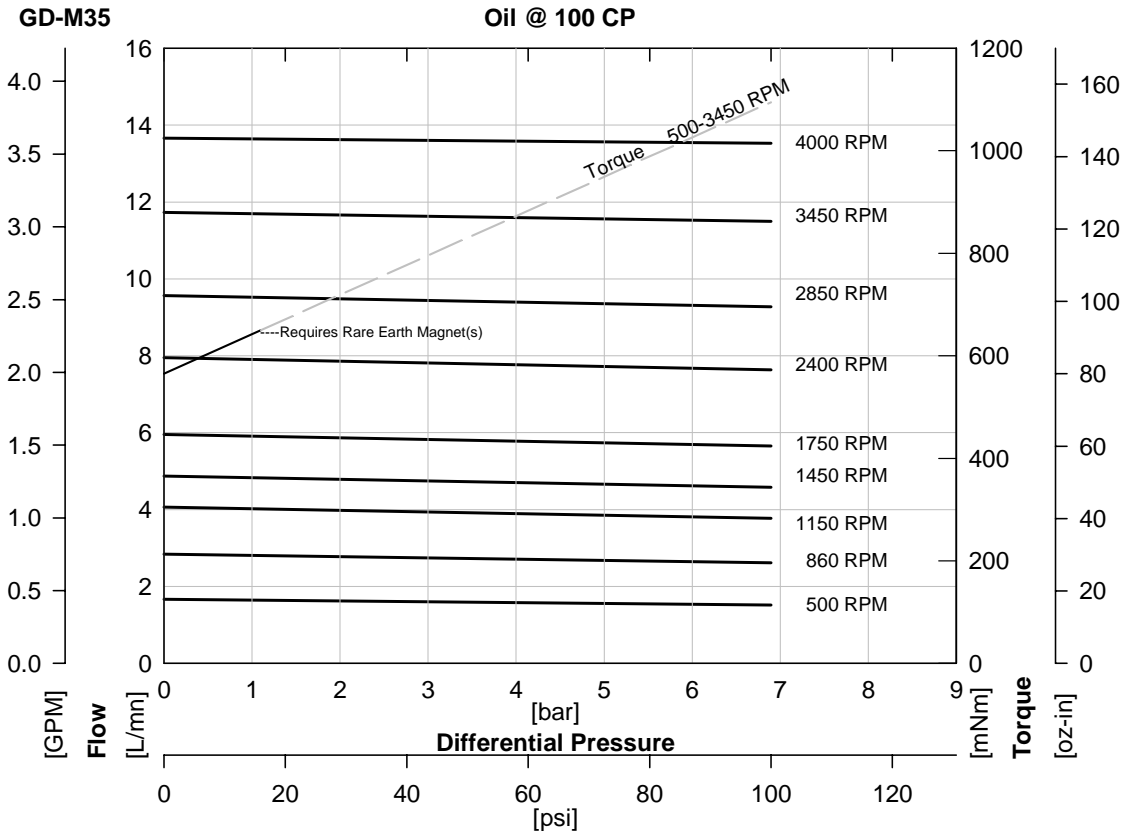
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	D	-	M35	●	●	●	
1	2	3	4	5	6	7	8
Model			Wetted Materials				
							O/C: Pump S/K: Service Kit
							Magnetic Drive Gear Pump Cavity Style Three Helical Gears/DP20 Stationary 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	200
[Bar]	[psi]			
0.3	5	0.5	1	0.8
1.4	20	0.6	1	0.8
2.8	40	0.6	1	0.9
4.1	60	0.7	1	0.9
5.5	80	0.7	1	0.9
6.9	100	0.8	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

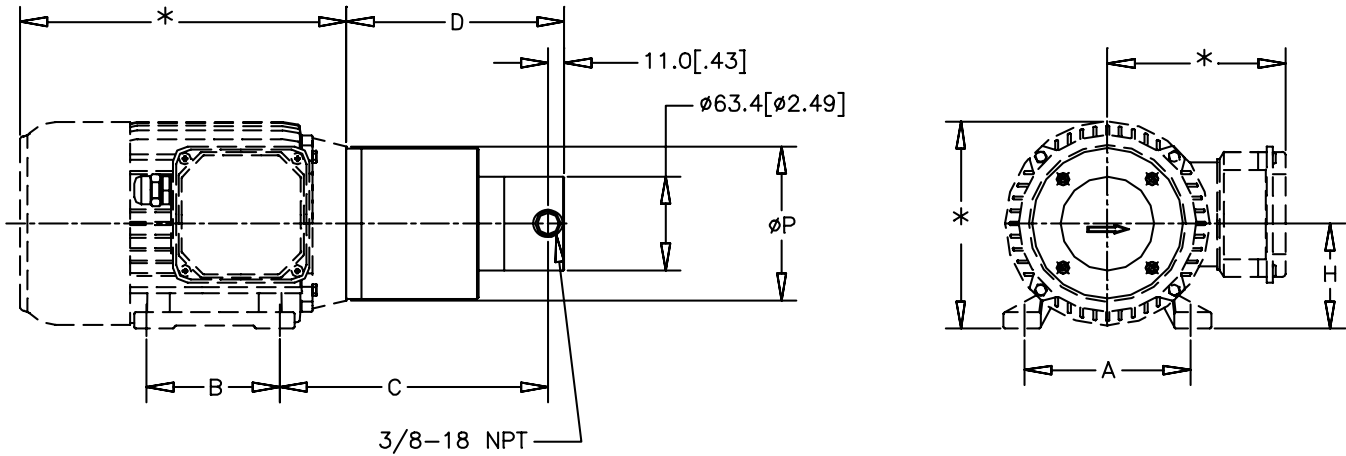
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	D	-	M35			4/6	
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	
Magnetic Drive Gear Pump Cavity Style Three Helical Gears/DP20 Stationary Shafts O-Ring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



Dimensions




PUMP	MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
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:

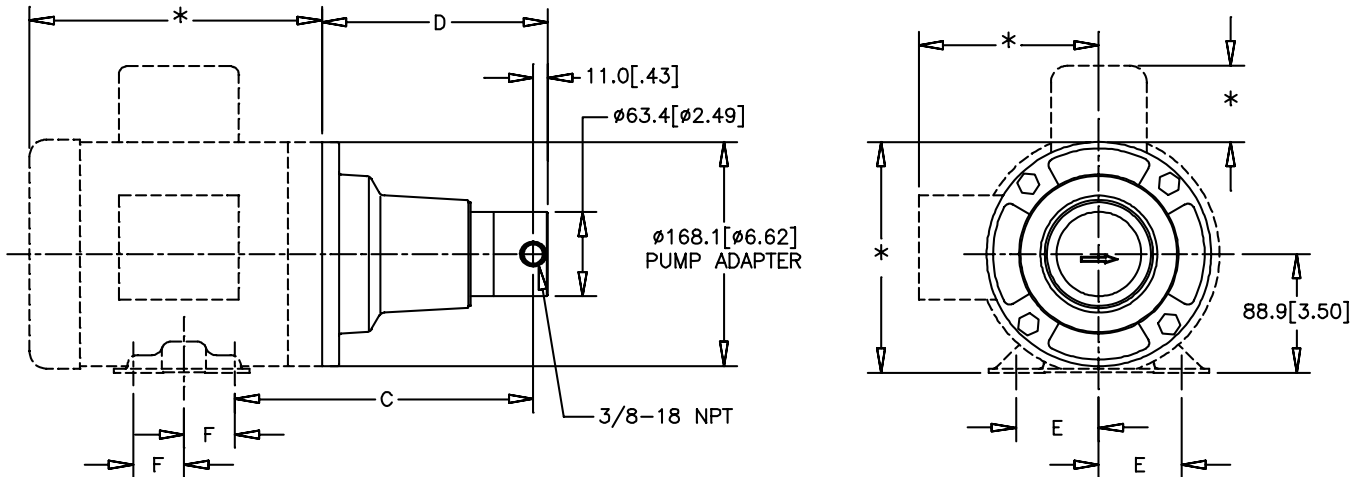
- *THESE DIMENSIONS WILL VARY BASED ON MOTOR SELECTION.
- ALL DIMENSIONS ARE NOMINAL.

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Order Code								Pump Construction	
Base Code		Gear Set		Drive Mount		Options		Magnetic Drive Gear Pump Cavity Style Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1)	
G	D	-	M35			E			
Model			Wetted Materials			O/C: Pump S/K: Service Kit			

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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