

<p><b>Order Code</b></p> <p style="text-align: center;"> <span style="margin-right: 20px;">Gear Set</span> <span>Drive Mount</span> </p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 10%;"><b>Base Code</b></td> <td style="width: 10%;"><b>G</b></td> <td style="width: 10%;"><b>L</b></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td colspan="3"></td> </tr> <tr> <td></td> <td colspan="3">Model</td> <td colspan="3">Wetted Materials</td> <td colspan="3"></td> <td colspan="2">                 O/C: Pump                  S/K: Service Kit             </td> </tr> </table>	<b>Base Code</b>	<b>G</b>	<b>L</b>											1	2	3	4	5	6	7	8					Model			Wetted Materials						O/C: Pump S/K: Service Kit		<p><b>Pump Construction</b></p> <p>Magnetic Drive Gear Pump                  Cavity Style                  Two Helical, Shafted Gears/DP12                  Sleeve Bushings                  O-Ring Seals (Qty 3)</p>
<b>Base Code</b>	<b>G</b>	<b>L</b>																																			
	1	2	3	4	5	6	7	8																													
	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		<b>Product Series</b>	<i>Max System Pressure (MAWP)</i>	<i>Ports</i>	
	L	Series 5000	21 Bar (300 psi)	3/4-14 (F) NPT Side Ports	
3		<b>Design Modifier</b>			
	-	Standard Design		1	
	H	High System Pressure		2	
4		<b>Gear Set (Width/N°Gears/Pitch)</b>	<i>Displacement</i>	<i>Max Differential Pressure</i>	<i>Driven Magnet (Standard)</i>
	H21	0.750/2/12	4.6 ml/rev (1.2 gal/1000*rev)	8.7 Bar (125 psi)	Ferrite
	H23	1.000/2/12	6.2 ml/rev (1.6 gal/1000*rev)	8.7 Bar (125 psi)	Ferrite
	H25	1.250/2/12	7.7 ml/rev (2.0 gal/1000*rev)	8.7 Bar (125 psi)	Ferrite
5		<b>Gear Material</b>	<i>Max Differential Pressure</i>	<i>Temp Range</i>	
	F	PTFE	3.5 Bar (50 psi)	-46/54°C (-50/130°F)	3
	J	PEEK (carbon fiber/ptfe)	8.7 Bar (125 psi)	-46/121°C (-50/250°F)	4
6		<b>Static Seals</b>		<i>Temp Range</i>	
	F	PTFE		-46/232°C (-50/450°F)	
	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)	
	K	Kalrez®		-29/260°C (-20/500°F)	
7		<b>Base Materials</b>			
	S	SS316			
	D	Alloy 20			
	T	Titanium			
	C	Hast C-276®			
	B	Hast B-2®			
8		<b>Drive Mount</b>	<i>Max System Pressure (MAWP)</i>	<i>Weight (Pumphead)</i>	
	E	NEMA 56C	21 Bar (300 psi)	3.9 kg (8.6 lbs)	
	K	NEMA 143/145TC	21 Bar (300 psi)	3.9 kg (8.6 lbs)	
	5	IEC 71-B5	21 Bar (300 psi)	3.9 kg (8.6 lbs)	
	6	IEC 71-B14	21 Bar (300 psi)	3.9 kg (8.6 lbs)	
	7	IEC 80-B5	21 Bar (300 psi)	3.9 kg (8.6 lbs)	
	8	IEC 80-B14	21 Bar (300 psi)	3.9 kg (8.6 lbs)	

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



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

<b>Driven Magnet (PC12)</b>			
M2	SmCo Driven (Laser Welded)		5
<b>Driving Magnet (PC13)</b>			
N1	SmCo Driving (Segments)		5
N3	NdFeB Driving (Ring)		5
<b>High System Pressure (PC14) Max System Pressure (MAWP)</b>			
CH15	1500 psi (Machined Cup)	103 Bar(1500 psi) SS316	6
CH50	5000 psi (Machined Cup)	345 Bar (5000 psi)	6
<b>Bushings (PC15)</b>			
D1	Carbon Bushing(s)		5
<b>Shafts (PC16)</b>			
S1	440C Shafts (Hardened)		5
<b>Ports/Fittings (PC17)</b>		Ports	
P6	1/2-14 NPT Ports	1/2-14 (F) NPT Side Ports	
F11	ANSI Flanges (1", 600#)	99 Bar(1440 psi) Welded 316	

**Notes**

- 1 Housing: 3 bolt
- 2 Housing: 10 bolt. Also select High System Pressure Option (PC14).
- 3 PTFE gears come with Rulon® bushings.
- 4 Consult factory for higher temperatures.
- 5 Application details required before order entry.
- 6 Use with High System Pressure Option (PC03:H). Consult factory for other materials.

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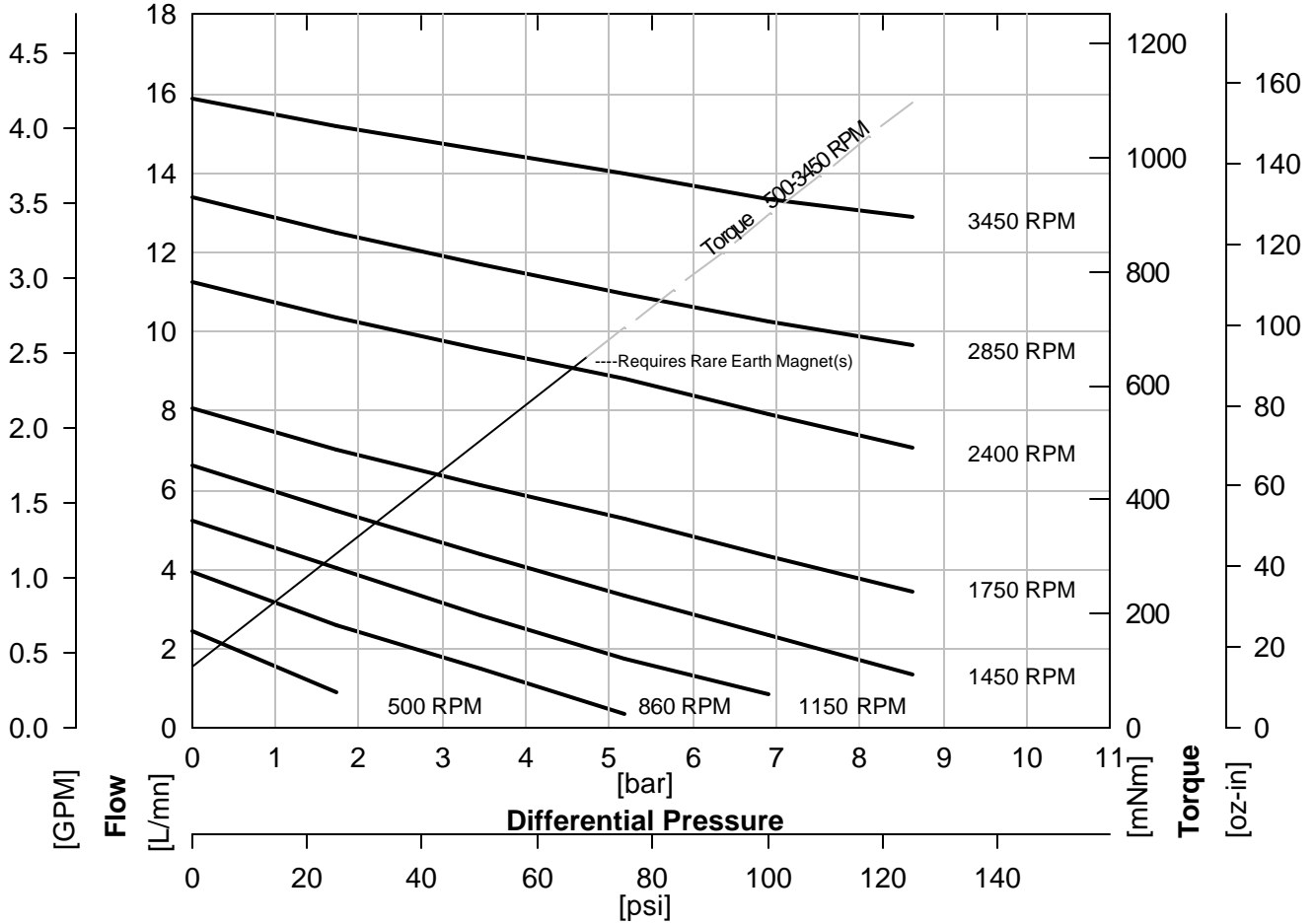
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<b>Base Code</b>		Gear Set		Drive Mount		<b>Options</b>	
<b>G</b>	<b>L</b>	-	<b>H21</b>				
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	
<p>Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP12 Sleeve Bushings O-Ring Seals (Qty 3)</p> 							

## Performance

GL-H21

Water @ 1 CP



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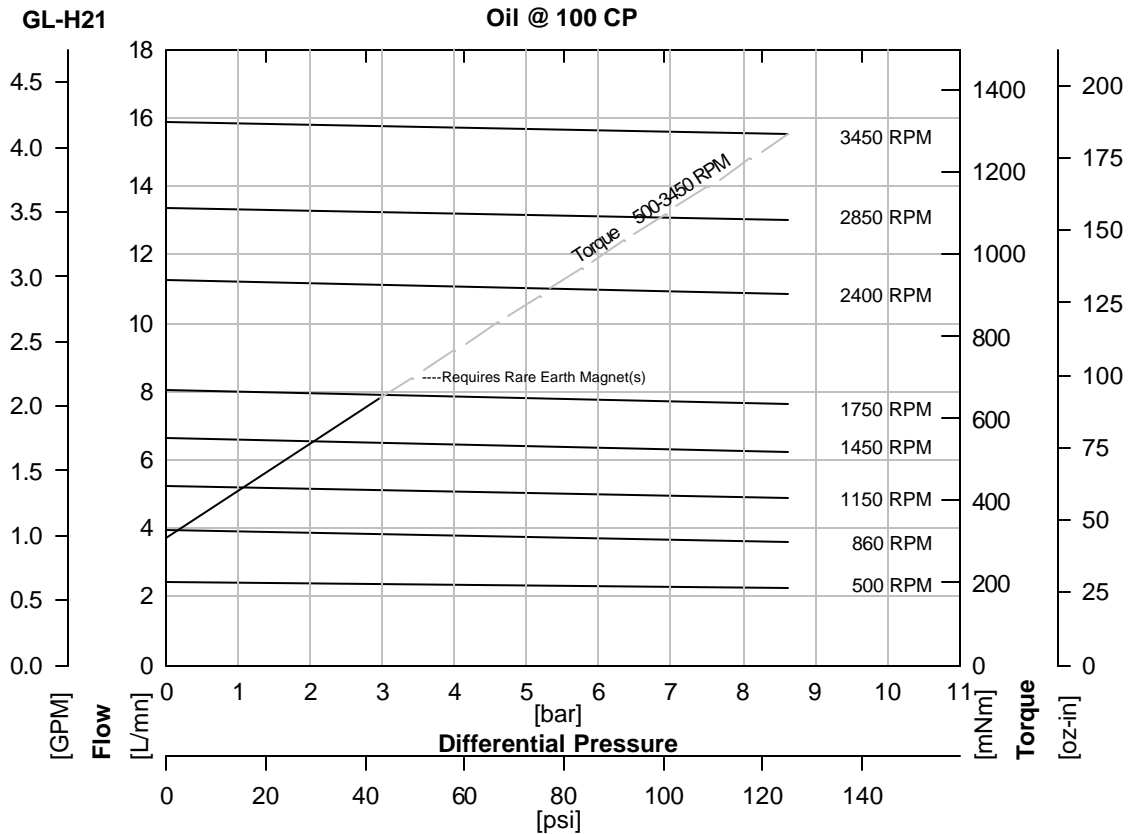
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<b>Base Code</b>		Gear Set		Drive Mount		<b>Options</b>	
G	L	-	H21	●	●	●	
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	
Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP12 Sleeve Bushings O-Ring Seals (Qty 3)							



## 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	2500
Max Speed [RPM]		3450	3450	1750
[Bar]	[psi]			
0.3	5	0.3	1	3.8
1.4	20	0.5	1	2.9
2.8	40	0.7	1	2.3
4.1	60	0.7	1	2.0
5.5	80	0.8	1	1.8
6.9	100	0.8	1	1.6
8.6	125	0.8	1	1.5

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
NdFeB	Ferrite	1921	272
NdFeB	SmCo	2634	373
NdFeB	NdFeB	3298	467

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<b>Base Code</b>	Gear Set		Drive Mount	<b>Options</b>																	
G	L	-	H21																		
1	2	3	4	5																	
Model			Wetted Materials																		

## Specification

	SI	US
Displacement	4.6 ml/rev	1.2 gal/1000*rev
Max Flow (4 Pole Speed)	6.7 L/mn 1450 RPM (50Hz)	2.2 gal/mn 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	13.2 L/mn 2850 RPM (50Hz)	4.2 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.H <sub>2</sub> O (1450 RPM)	24 in.H <sub>2</sub> O (1750 RPM)
Temp Range	3 See Gear Material	See Gear Material
Viscosity Range	4 0.2 to 2500 cp	0.2 to 2500 cp
Max Speed	3,450 RPM	3,450 RPM
Rotation (Facing Motor Shaft)	CW	CW
Weight (Pumphead)	3.9 kg	8.6 lbs
Dimensions (LxWxH)	See Drawing	See Drawing
Ports	3/4-14 (F) NPT Side Ports	3/4-14 (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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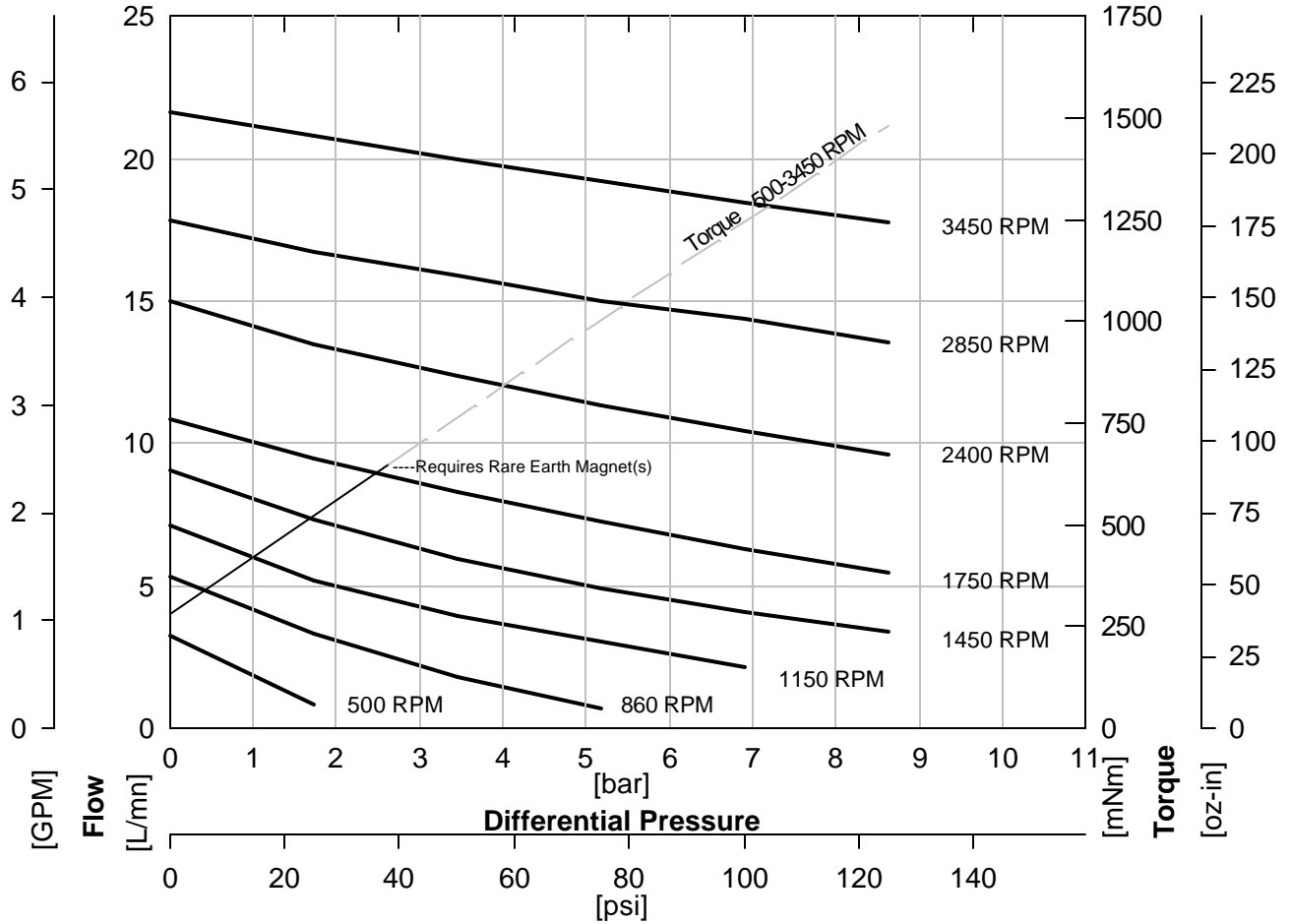
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<b>Base Code</b>		Gear Set		Drive Mount		<b>Options</b>	
<b>G</b>	<b>L</b>	-	<b>H23</b>				
1	2	3	4	5	6	7	8
Model			Wetted Materials				O/C: Pump S/K: Service Kit
Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP12 Sleeve Bushings O-Ring Seals (Qty 3)							



## Performance

GL-H23

Water @ 1 CP



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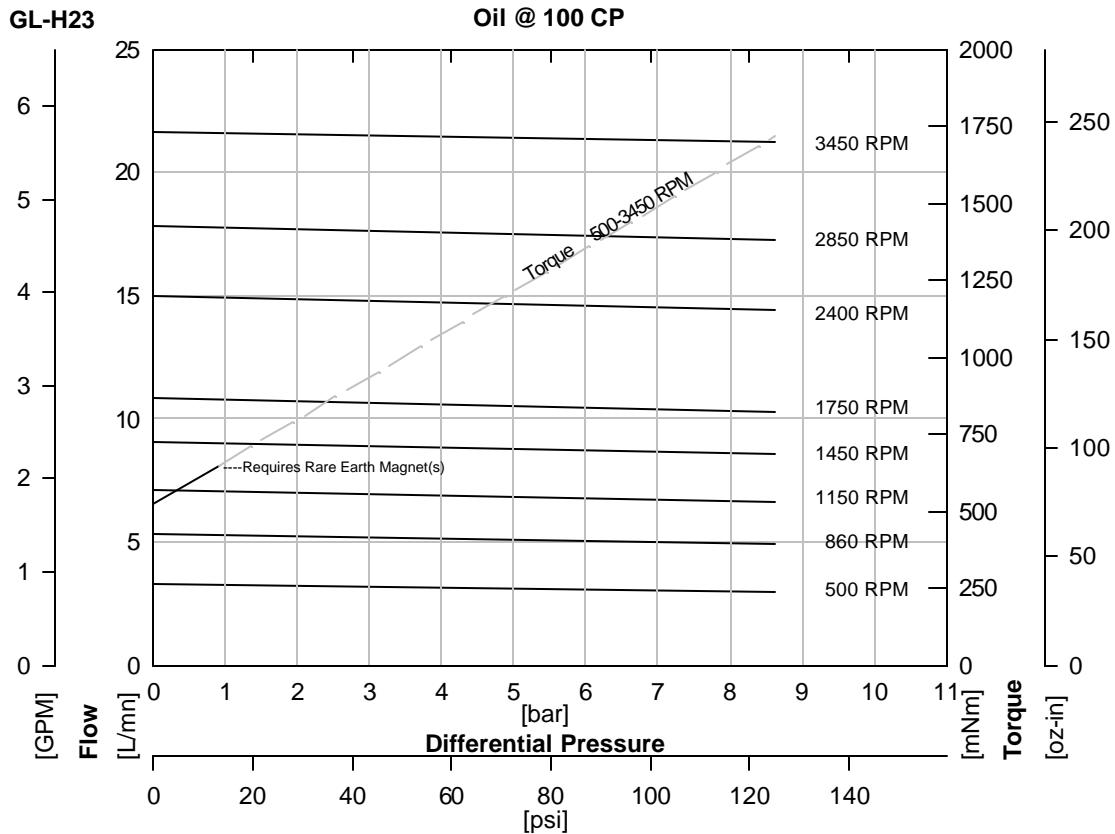
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<b>Order Code</b>				<b>Pump Construction</b>			
<b>Base Code</b>		Gear Set		Drive Mount		<b>Options</b>	
G	L	-	H23	•	•	•	•
1	2	3	4	5	6	7	8
Model			Wetted Materials				O/C: Pump S/K: Service Kit

Magnetic Drive Gear Pump  
Cavity Style  
Two Helical, Shafted Gears/DP12  
Sleeve Bushings  
O-Ring Seals (Qty 3)

## 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.

<b>Torque Correction Factors: For Higher Viscosity Liquids</b>				
Viscosity [cp]		1	100	2500
Max Speed [RPM]		3450	3450	1750
[Bar]	[psi]			
0.3	5	0.5	1	2.8
1.4	20	0.6	1	2.3
2.8	40	0.7	1	2.0
4.1	60	0.8	1	1.8
5.5	80	0.8	1	1.6
6.9	100	0.8	1	1.5
8.6	125	0.9	1	1.4

<b>Magnet Decouple Torque</b>			
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
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<b>Base Code</b>	Gear Set		Drive Mount	<b>Options</b>																	
G	L	-	H23																		
1	2	3	4	5																	
Model			Wetted Materials																		

## Specification

	SI	US
Displacement	6.2 ml/rev	1.6 gal/1000*rev
Max Flow (4 Pole Speed)	9.0 L/mn 1450 RPM (50Hz)	2.9 gal/mn 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	17.7 L/mn 2850 RPM (50Hz)	5.7 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 2500 cp	0.2 to 2500 cp
Max Speed	3,450 RPM	3,450 RPM
Rotation (Facing Motor Shaft)	CW	CW
Weight (Pumphead)	3.9 kg	8.6 lbs
Dimensions (LxWxH)	See Drawing	See Drawing
Ports	3/4-14 (F) NPT Side Ports	3/4-14 (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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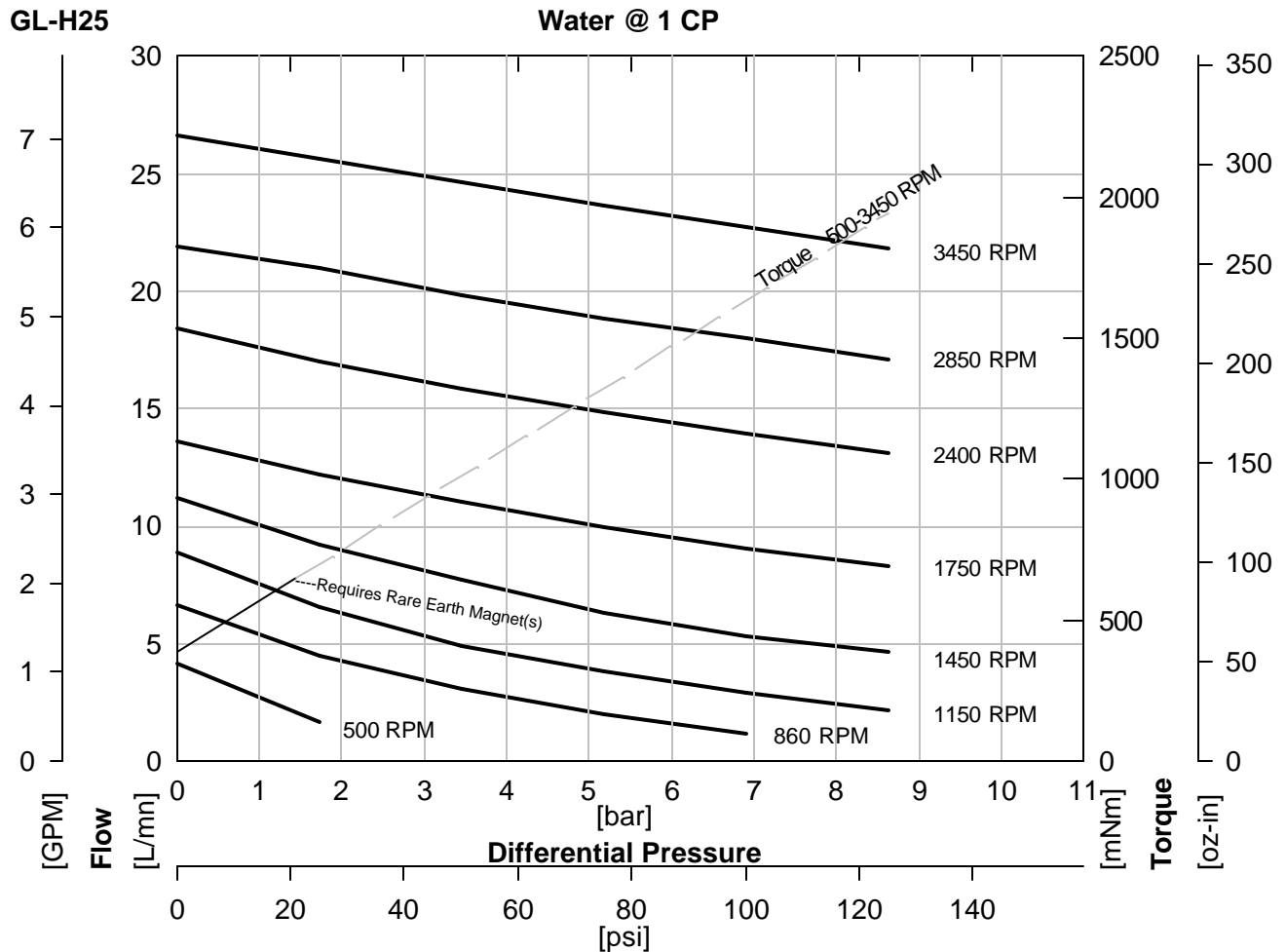
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<b>Base Code</b>		Gear Set		Drive Mount		<b>Options</b>	
<b>G</b>	<b>L</b>	-	<b>H25</b>				
1	2	3	4	5	6	7	8
Model			Wetted Materials				O/C: Pump S/K: Service Kit



## Performance



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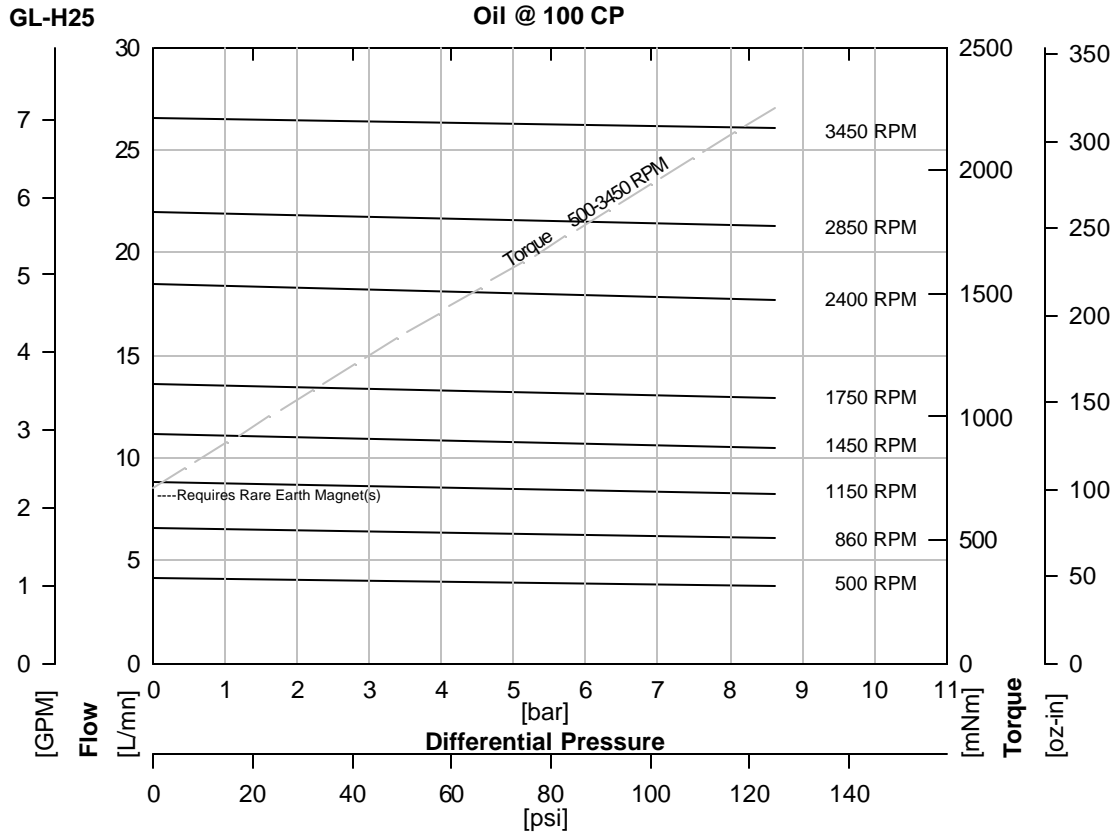
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G	L	-	H25	•	•	•	
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	
Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP12 Sleeve Bushings O-Ring Seals (Qty 3)							



## Performance-High Viscosity



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

Torque Correction Factors: For Higher Viscosity Liquids				
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Max Speed [RPM]		3450	3450	1750
[Bar]	[psi]			
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1.4	20	0.6	1	2.0
2.8	40	0.7	1	1.8
4.1	60	0.8	1	1.6
5.5	80	0.8	1	1.5
6.9	100	0.8	1	1.4
8.6	125	0.9	1	1.3

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
Ferrite	Ferrite	643	91
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<p><b>Order Code</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"><b>Base Code</b></td> <td style="width: 15%; text-align: center;">Gear Set</td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;">Drive Mount</td> <td style="width: 40%;"><b>Options</b></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">G</td> <td style="border: 1px solid black; text-align: center;">L</td> <td style="border: 1px solid black; text-align: center;">-</td> <td style="border: 1px solid black; text-align: center;">H25</td> <td style="border: 1px solid black;"></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> </tr> <tr> <td colspan="3" style="text-align: center;">Model</td> <td colspan="2" style="text-align: center;">Wetted Materials</td> </tr> </table> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-top: 5px;">         O/C: Pump          S/K: Service Kit       </div>	<b>Base Code</b>	Gear Set		Drive Mount	<b>Options</b>	G	L	-	H25		1	2	3	4	5	Model			Wetted Materials		<p><b>Pump Construction</b></p> <p>Magnetic Drive Gear Pump          Cavity Style          Two Helical, Shafted Gears/DP12          Sleeve Bushings          O-Ring Seals (Qty 3)</p> 
<b>Base Code</b>	Gear Set		Drive Mount	<b>Options</b>																	
G	L	-	H25																		
1	2	3	4	5																	
Model			Wetted Materials																		

## Specification

	SI	US
Displacement	7.7 ml/rev	2.0 gal/1000*rev
Max Flow (4 Pole Speed)	11.2 L/mn 1450 RPM (50Hz)	3.6 gal/mn 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	22.0 L/mn 2850 RPM (50Hz)	7.1 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.H <sub>2</sub> O (1450 RPM)	24 in.H <sub>2</sub> O (1750 RPM)
Temp Range	3 See Gear Material	See Gear Material
Viscosity Range	4 0.2 to 2500 cp	0.2 to 2500 cp
Max Speed	3,450 RPM	3,450 RPM
Rotation (Facing Motor Shaft)	CW	CW
Weight (Pumphead)	3.9 kg	8.6 lbs
Dimensions (LxWxH)	See Drawing	See Drawing
Ports	3/4-14 (F) NPT Side Ports	3/4-14 (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.

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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GL500 Rev A

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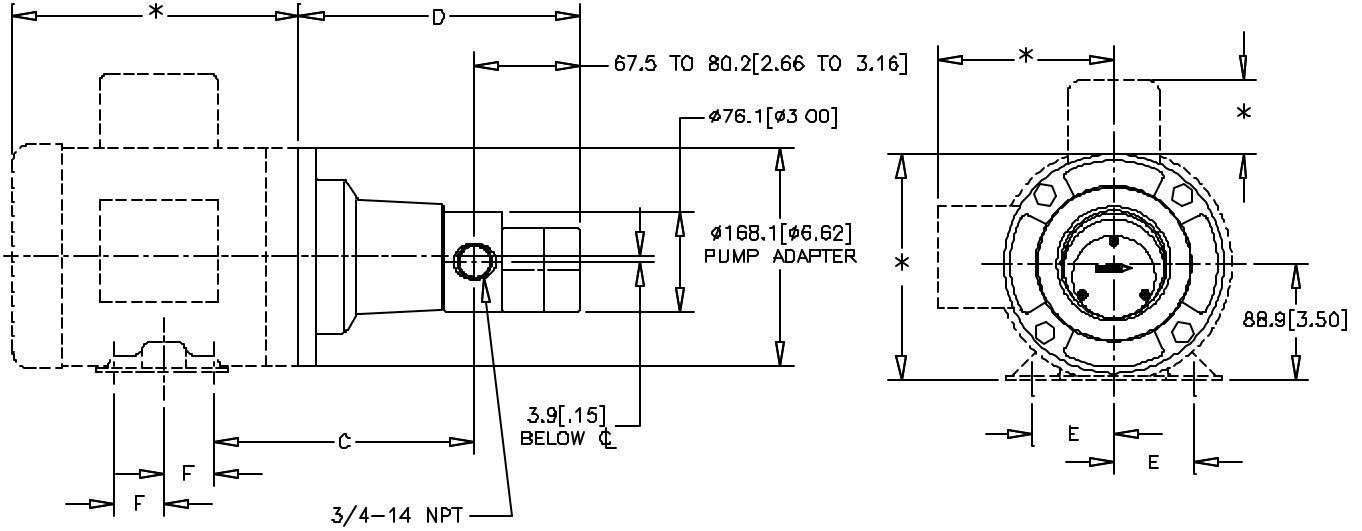
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<b>Order Code</b>				<b>Pump Construction</b>			
<b>Base Code</b>		Gear Set		Drive Mount		<b>Options</b>	
<b>G</b>	<b>L</b>	-	<b>H21</b>			<b>E</b>	
1	2	3	4	5	6	7	8
Model			Wetted Materials				
				O/C: Pump S/K: Service Kit			
				Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP12 Sleeve Bushings O-Ring Seals (Qty 3)			



## Dimension



MOUNT	C mm [in]	D mm [in]	E mm [in]	F mm [in]
<sup>E</sup> NEMA 56C	199.8 [7.87]	201.9[7.95] TO 214.7[8.45]	61.9 [2.44]	38.1 [1.50]
<sup>K</sup> NEMA 143TC	195.0 [7.68]	201.9[7.95] TO 214.7[8.45]	69.9 [2.75]	50.8 [2.00]
<sup>K</sup> NEMA 145TC	195.0 [7.68]	201.9[7.95] TO 214.7[8.45]	69.9 [2.75]	63.5 [2.50]

NOTES:

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

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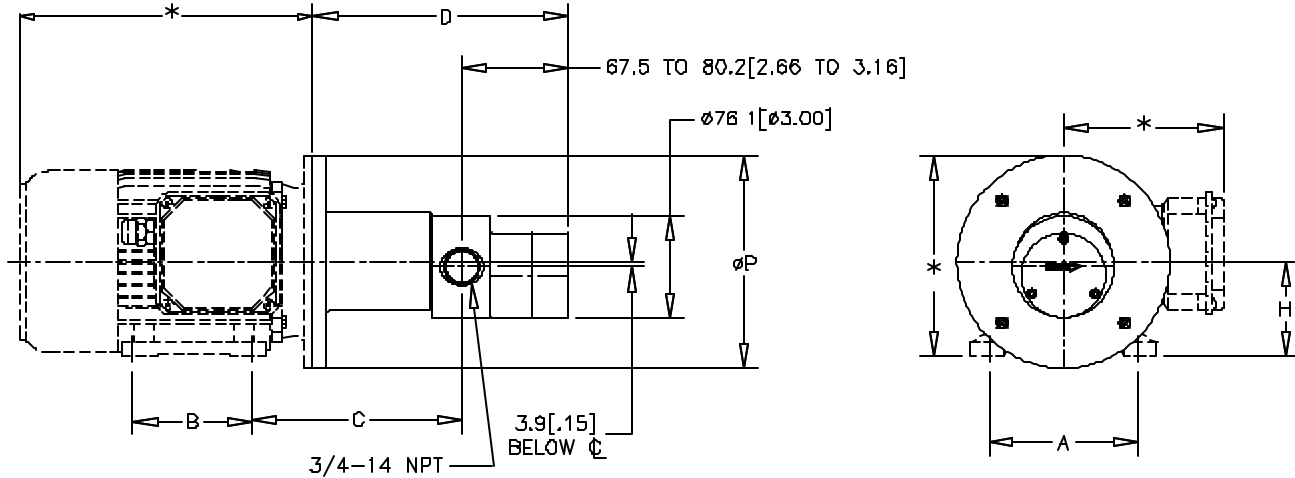
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Dimensions 1



<b>Order Code</b>								<b>Pump Construction</b>	
<b>Base Code</b>		Gear Set		Drive Mount		<b>Options</b>			
G	L	-	H21			5			
1	2	3	4	5	6	7	8		
Model			Wetted Materials			O/C: Pump S/K: Service Kit			
								Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP12 Sleeve Bushings O-Ring Seals (Qty 3)	

## Dimension



Mount	A mm [In]	B mm [In]	C mm [In]	D mm [In]	H mm [In]	P mm [In]
<sup>3</sup> IEC6JBSB3	100 [3.94]	80 [3.15]	145.2 [5.72]	172.7 [6.80] TO 185.4 [7.30]	63 [2.48]	140 [5.51]
<sup>5</sup> IEC71BSB3	112 [4.41]	90 [3.54]	157.2 [6.19]	179.7 [7.07] TO 192.4 [7.57]	71 [2.80]	160 [6.29]
<sup>7</sup> IEC80BSB3	125 [4.92]	100 [3.94]	172.1 [6.78]	189.6 [7.47] TO 202.3 [7.97]	80 [3.15]	200 [7.87]

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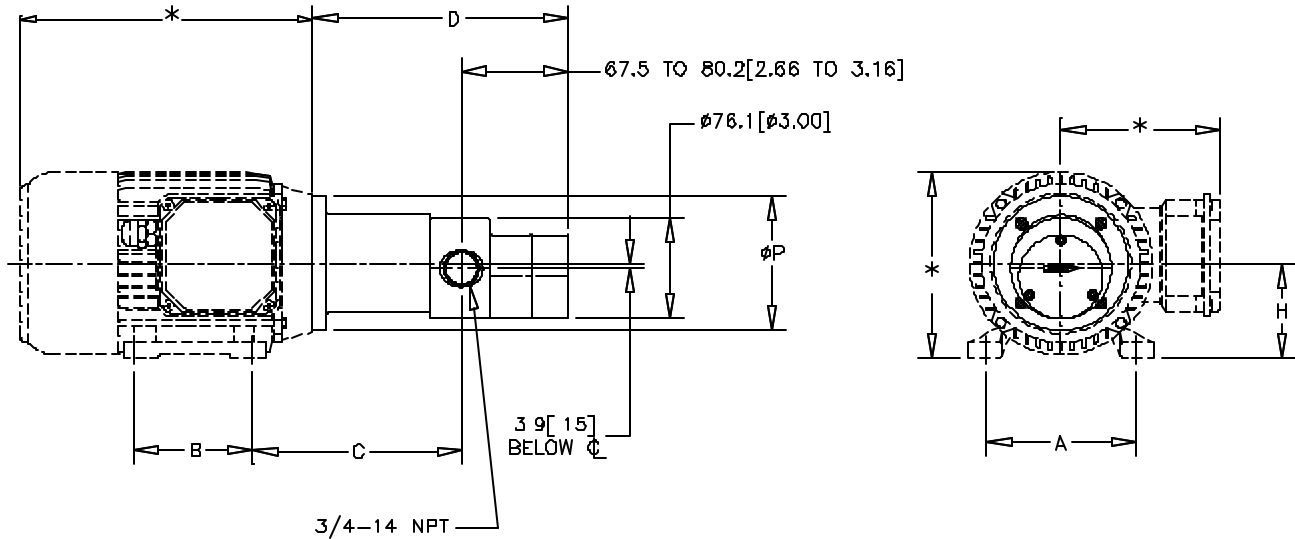
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<b>Order Code</b>				<b>Pump Construction</b>			
<b>Base Code</b>		Gear Set	Drive Mount		Options		
<b>G</b>	<b>L</b>	<b>-</b>	<b>H21</b>		<b>6</b>		
1	2	3	4	5	6	7	8
Model			Wetted Materials		O/C: Pump S/K: Service Kit		
<b>Magnetic Drive Gear Pump</b> Cavity Style Two Helical, Shafted Gears/DP12 Sleeve Bushings O-Ring Seals (Qty 3)							



## Dimension



MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
<sup>6</sup> IEC71B14B3	112 [4.41]	90 [3.54]	157.2 [6.19]	179.7 [7.07] TO 192.4 [7.57]	71 [2.80]	105 [4.13]
<sup>8</sup> IEC80B14B3	125 [4.92]	100 [3.94]	172.1 [6.77]	189.6 [7.46] TO 202.3 [7.96]	80 [3.15]	120 [4.72]

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