

<p>Order Code</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Base Code</td> <td style="width: 15%; text-align: center;">Gear Set</td> <td style="width: 15%; text-align: center;">Drive Mount</td> <td style="width: 15%; text-align: center;">Options</td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">G</td> <td style="border: 1px solid black; text-align: center;">M</td> <td style="border: 1px solid black; text-align: center;">3</td> <td style="border: 1px solid black; text-align: center;">8</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> </tr> <tr> <td colspan="2" style="text-align: center;">Model</td> <td colspan="2" style="text-align: center;">Wetted Materials</td> </tr> </table> <p style="font-size: small;">O/C: Pump S/K: Service Kit</p>	Base Code	Gear Set	Drive Mount	Options	G	M	3	8	1	2	3	4	Model		Wetted Materials		<p>Pump Construction</p> <ul style="list-style-type: none"> Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP10 Sleeve Bushings O-Ring Seals (Qty 3) Rare Earth Magnets
Base Code	Gear Set	Drive Mount	Options														
G	M	3	8														
1	2	3	4														
Model		Wetted Materials															

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

1	Code	Product Type	Specifications	Notes
	G	Gear Pump		
2	M	Product Series Series GM	<i>Max System Pressure (MAWP)</i> 69 Bar (1000 psi)	<i>Ports</i> 3/4-14 (F) NPT Side Ports
3	-	Modifier Standard Design		
4	G25	Gear Set (Width/N°Gears/Pitch) 1.250/2/10	<i>Displacement</i> 12.2 ml/rev (3.2 gal/1000*rev)	<i>Max Differential Pressure</i> 8.7 Bar (125 psi) <i>Driven Magnet (Standard)</i> Samarium Cobalt (SmCo)
5	J	Gear Material PEEK (carbon fiber/ptfe)		<i>Max Differential Pressure</i> 8.7 Bar (125 psi) <i>Temp Range</i> -46/121°C (-50/250°F)
6	V	Static Seals Viton®		<i>Temp Range</i> -29/204°C (-20/400°F)
	D	EP		-46/149°C (-50/300°F)
	F5	TEV (PTFE encap Viton®)		-29/204°C (-20/400°F)
	K	Kalrez®		-29/260°C (-20/500°F)
7	S	Base Materials SS316		
	D	Alloy 20		
	T	Titanium		
	C	Hast C-276®		
8	E	Drive Mount NEMA 56C	<i>Max System Pressure (MAWP)</i> 69 Bar (1000 psi)	<i>Weight (Pumphead)</i> 10.9 kg (24.0 lbs)
	7	IEC 80-B5	69 Bar (1000 psi)	10.9 kg (24.0 lbs)

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

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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Technical Data

Series GM

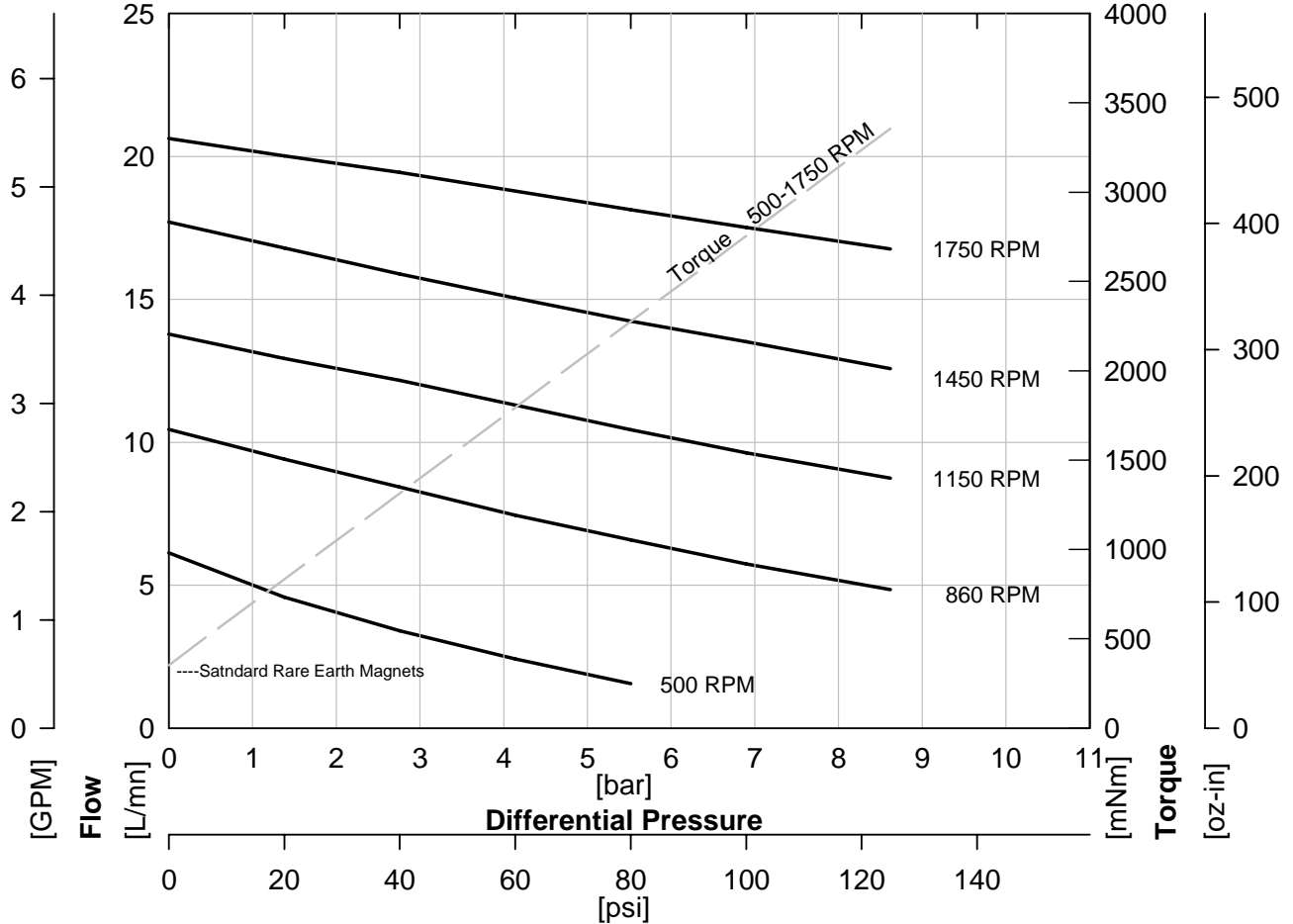
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Pump Construction Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP10 Sleeve Bushings O-Ring Seals (Qty 3) Rare Earth Magnets							



Performance

GM-G25

Water @ 1 CP



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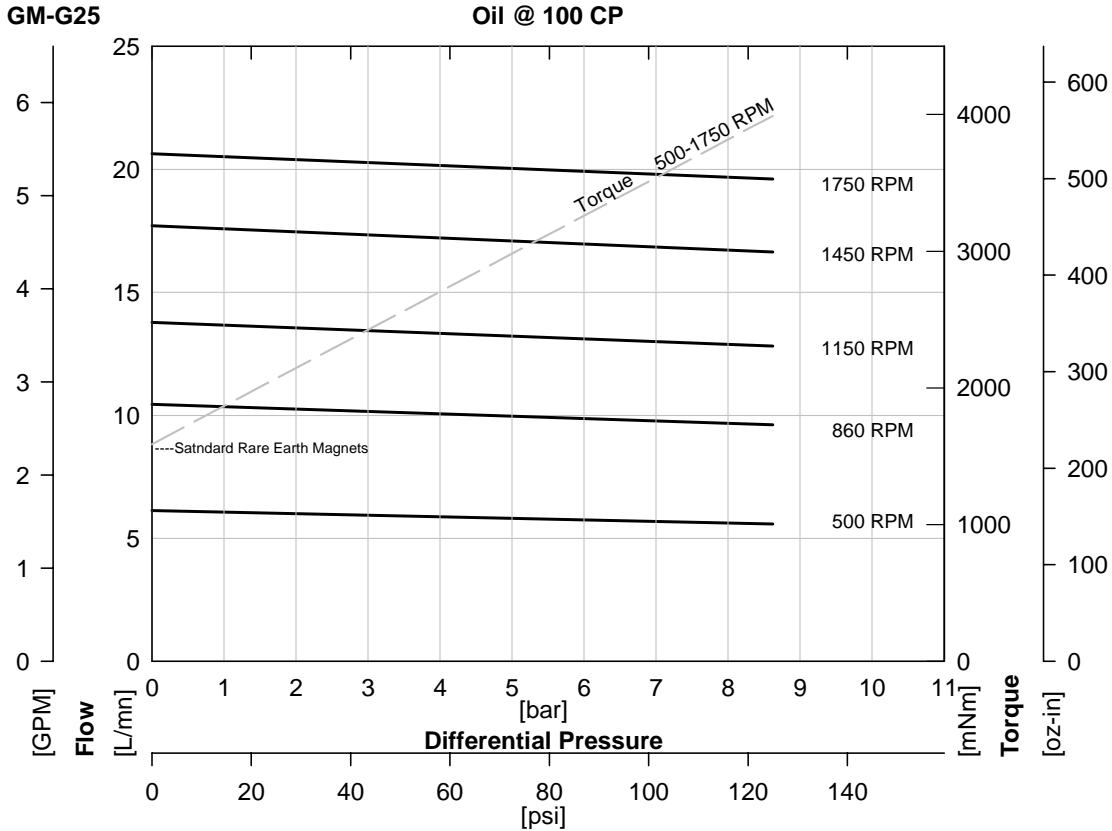
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Performance-High Viscosity



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

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

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]		1750	1750	1750
[Bar]	[psi]			
0.3	5	0.2	1	3.0
1.4	20	0.4	1	2.6
2.8	40	0.6	1	2.2
4.1	60	0.7	1	
5.5	80	0.8	1	
6.9	100	0.8	1	

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
SmCo	SmCo	5650	800

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Specifications

	SI	US
Displacement	12.2 ml/rev	3.2 gal/1000*rev
Max Flow (4 Pole Speed)	17.7 L/mn 1450 RPM (50Hz)	5.7 gal/mn 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	34.8 L/mn 2850 RPM (50Hz)	11.2 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.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	1,750 RPM	1,750 RPM
Rotation (Facing Motor Shaft)	CW	CW
Weight (Pumphead)	10.9 kg	24.0 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)		
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.

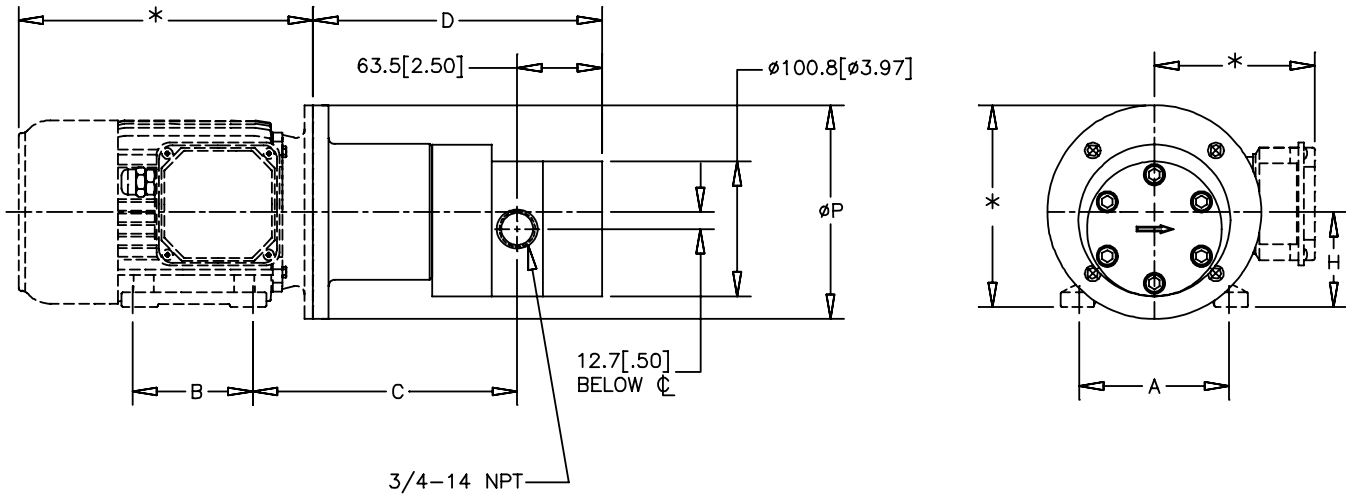
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Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP10 Sleeve Bushings O-Ring Seals (Qty 3) Rare Earth Magnets							



Dimensions



MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
7 IEC80B5B3	125 [4.92]	100 [3.94]	212.5 [8.37]	226.0 [8.90]	80 [3.15]	200 [7.87]

NOTES:

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

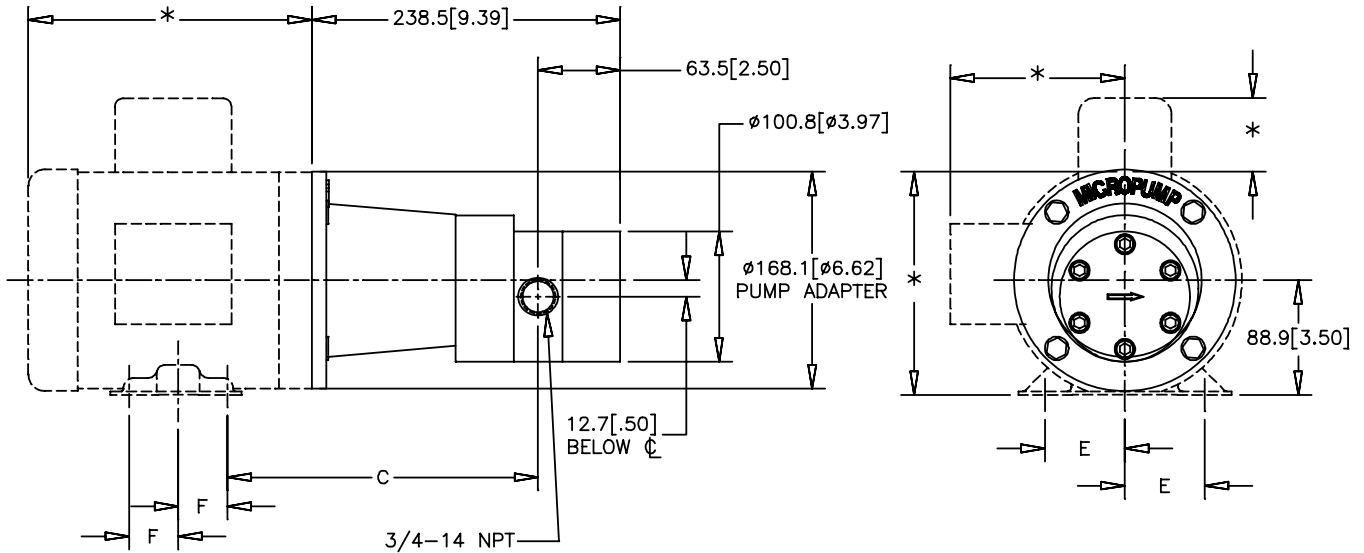
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Dimensions



MOUNT	C mm [in]	E mm [in]	F mm [in]
^E NEMA 56C	240.2 [9.46]	61.9 [2.44]	38.1 [1.50]
^K NEMA 143TC	235.4 [9.27]	69.9 [2.75]	50.8 [2.00]
^K NEMA 145TC	235.4 [9.27]	69.9 [2.75]	63.5 [2.50]

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