

<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;">B</td> <td style="border: 1px solid black; text-align: center;">3</td> <td style="border: 1px solid black; text-align: center;">4</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="3" style="text-align: center;">Model</td> <td 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	B	3	4	1	2	3	4	Model			Wetted Materials	<p>Pump Construction</p> <p>Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP25 Stationary Shafts O-Ring Seal (Qty 1)</p>
Base Code	Gear Set	Drive Mount	Options														
G	B	3	4														
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	B	Series GB	Max System Pressure (MAWP) 21 Bar (300 psi)	Ports 1/8-27 (F) NPT Side Ports
3	-	Standard Design		
4		Gear Set (Width/N°Gears/Pitch)	Displacement	Max Differential Pressure Driven Magnet (Standard)
	P23	0.150/2/25	0.261 ml/rev (0.07 gal/1000*rev)	8.7 Bar (125 psi) Ferrite
	P25	0.350/2/25	0.58 ml/rev (0.15 gal/1000*rev)	8.7 Bar (125 psi) Ferrite
	P35	0.350/3/25	1.17 ml/rev (0.31 gal/1000*rev)	4.2 Bar (60 psi) Ferrite
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
	V	Viton®		-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		Base Materials		
	S	SS316		
	D	Alloy 20		
	T	Titanium		
	C	Hast C-276®		
8		Drive Mount	Max System Pressure (MAWP)	Weight (Pumphead)
	A	MP Housing	21 Bar (300 psi)	0.34 kg (0.75 lbs)
	E	NEMA 56C	21 Bar (300 psi)	1.1 kg (2.4 lbs)
	6	IEC 71-B14	21 Bar (300 psi)	1.1 kg (2.4 lbs)

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

Options	Code	Description	Specifications	Notes
		Bypass (PC11)	Optional Internal Bypass	
	B1	Internal Bypass (SS316)	Preset to 3 Bar (pump only) (Pres)	1
		Driving Magnet (PC13)		
	N3	NdFeB Driving (Ring)		2

- Notes
- 1 Available in SS316 only
 - 2 Available only with industrial IEC or NEMA drive mounts

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 GB

Order Code				Options			
Base Code		Gear Set		Drive Mount			
G	B	-	P23				
1	2	3	4	5	6	7	8
Model			Wetted Materials				
							O/C: Pump S/K: Service Kit

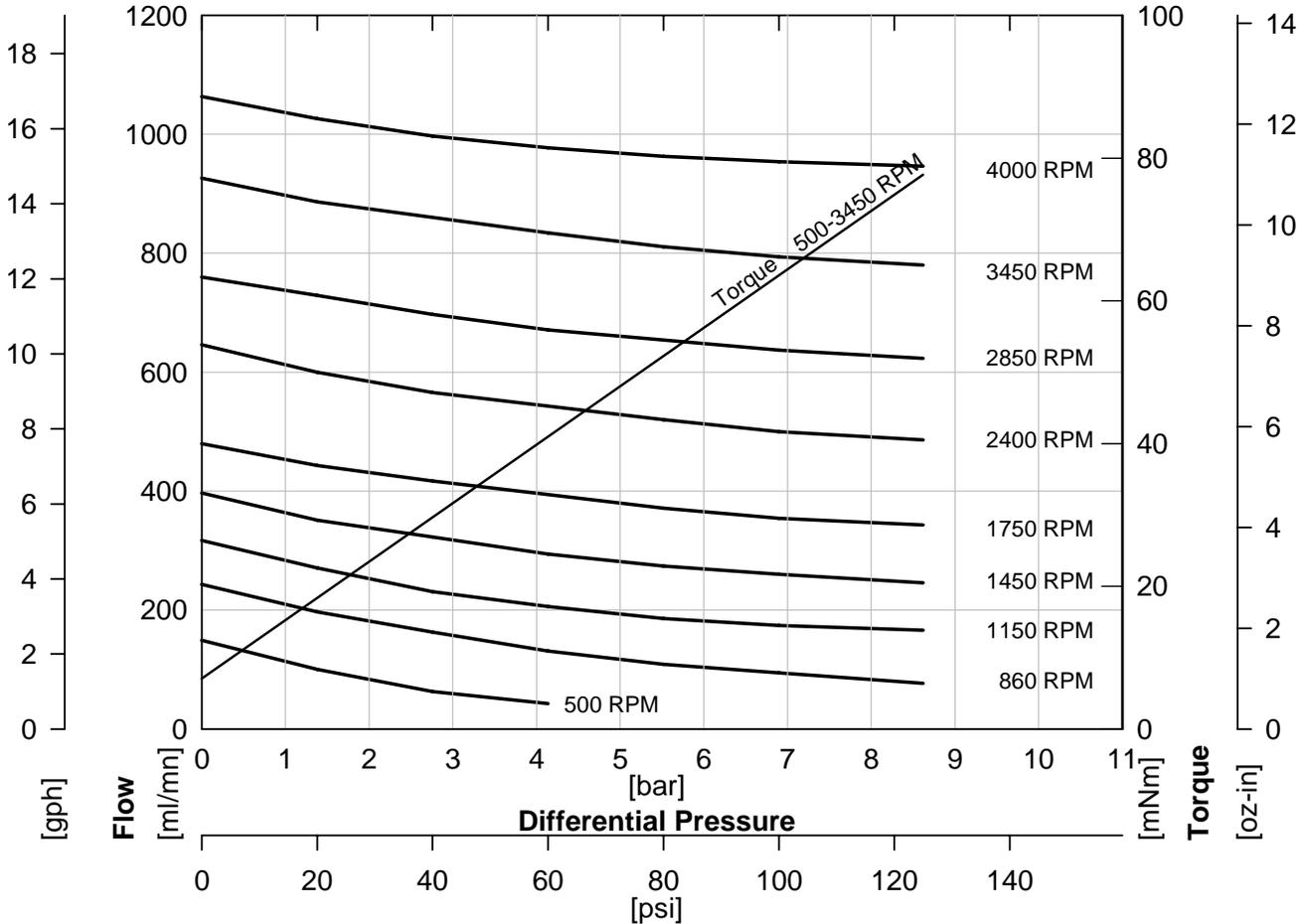
Pump Construction
 Magnetic Drive Gear Pump
 Suction Shoe Style
 Two or Three Helical Gears/DP25
 Stationary Shafts
 O-Ring Seal (Qty 1)



Performance

GB-P23

Water @ 1 CP



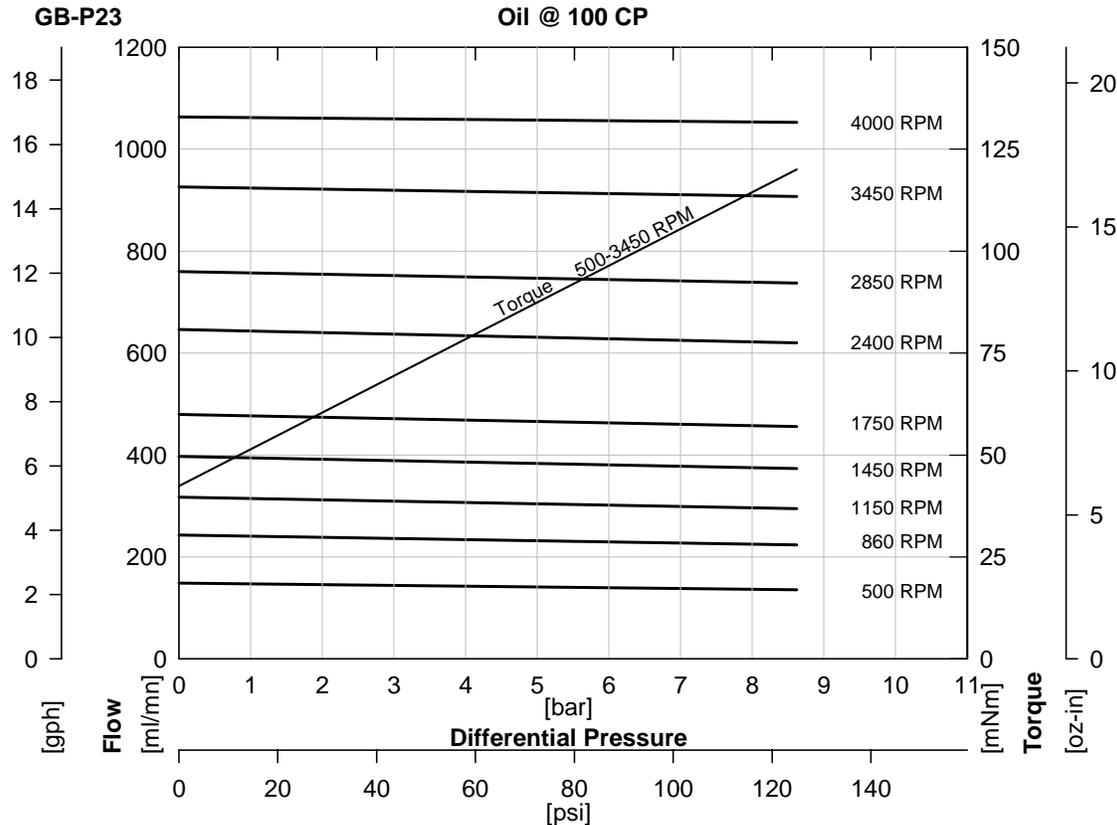
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	B	-	P23	●	●	●	
1	2	3	4	5	6	7	8
Model			Wetted Materials				
							O/C: Pump S/K: Service Kit
Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP25 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	1450
[Bar]	[psi]			
0.3	5	0.2	1	2.7
1.4	20	0.3	1	2.3
2.8	40	0.4	1	2.1
4.1	60	0.5	1	1.9
5.5	80	0.6	1	1.7
6.9	100	0.6	1	1.6
8.6	125	0.6	1	1.5

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
Ferrite	Ferrite	155	22
Ferrite	SmCo	212	30
Ferrite	NdFeB	353	50
SmCo	Ferrite	254	36
SmCo	SmCo	565	80
SmCo	NdFeB	777	110

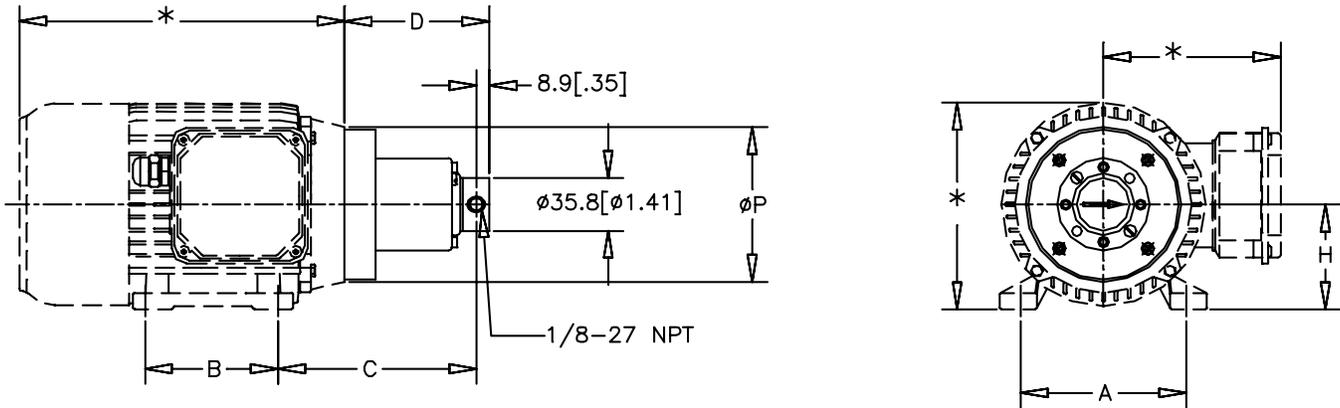
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	B	-	P23	2	4/6		
1	2	3	4	5	6	7	8
Model				Wetted Materials			
				O/C: Pump S/K: Service Kit			
				Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP25 Stationary Shafts O-Ring Seal (Qty 1)			



Dimensions



MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
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⁴ IEC63B14B3	100 [3.94]	80 [3.15]	122.0 [4.80]	90.9 [3.58]	63 [2.48]	90 [3.54]
⁶ IEC71B14B3	112 [4.41]	90 [3.54]	134.1 [5.28]	97.9 [3.86]	71 [2.80]	105 [4.13]

NOTES:

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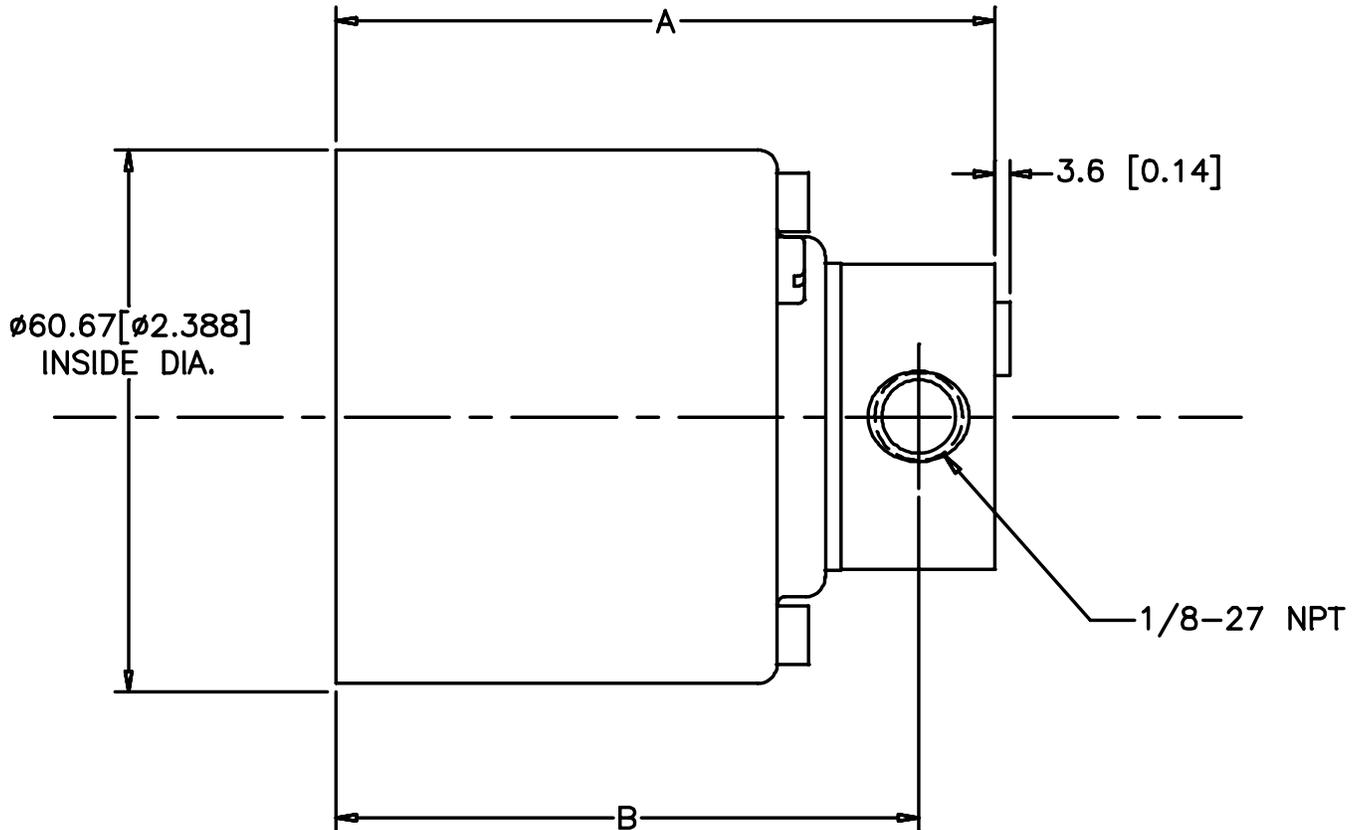
Technical Data

Series GB

Order Code				Pump Construction			
Base Code		Gear Set	Drive Mount		Options		
G	B	-	P23				A
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/DP25 Stationary Shafts O-Ring Seal (Qty 1)							



Dimensions



A (MAX) mm [in]	B mm [in]
77.0 [3.03]	68.1 [2.68]

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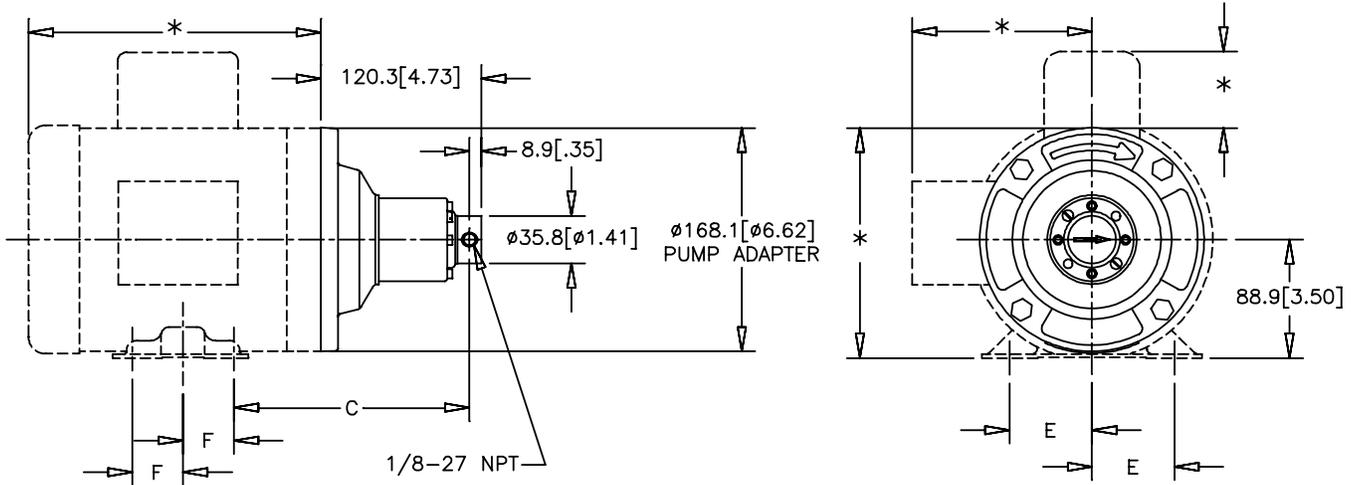
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	B	-	P23	5	6	7	E
1	2	3	4	5	6	7	8
Model				Wetted Materials			
				O/C: Pump S/K: Service Kit			
				Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP25 Stationary Shafts O-Ring Seal (Qty 1)			



Dimensions



MOUNT	C mm [in]	E mm [in]	F mm [in]
NEMA ^E 56C	176.7 [6.95]	61.9 [2.44]	38.1 [1.50]
NEMA ^K 143TC	171.8 [6.77]	69.9 [2.75]	50.8 [2.00]
NEMA ^K 145TC	171.8 [6.77]	69.9 [2.75]	63.5 [2.50]

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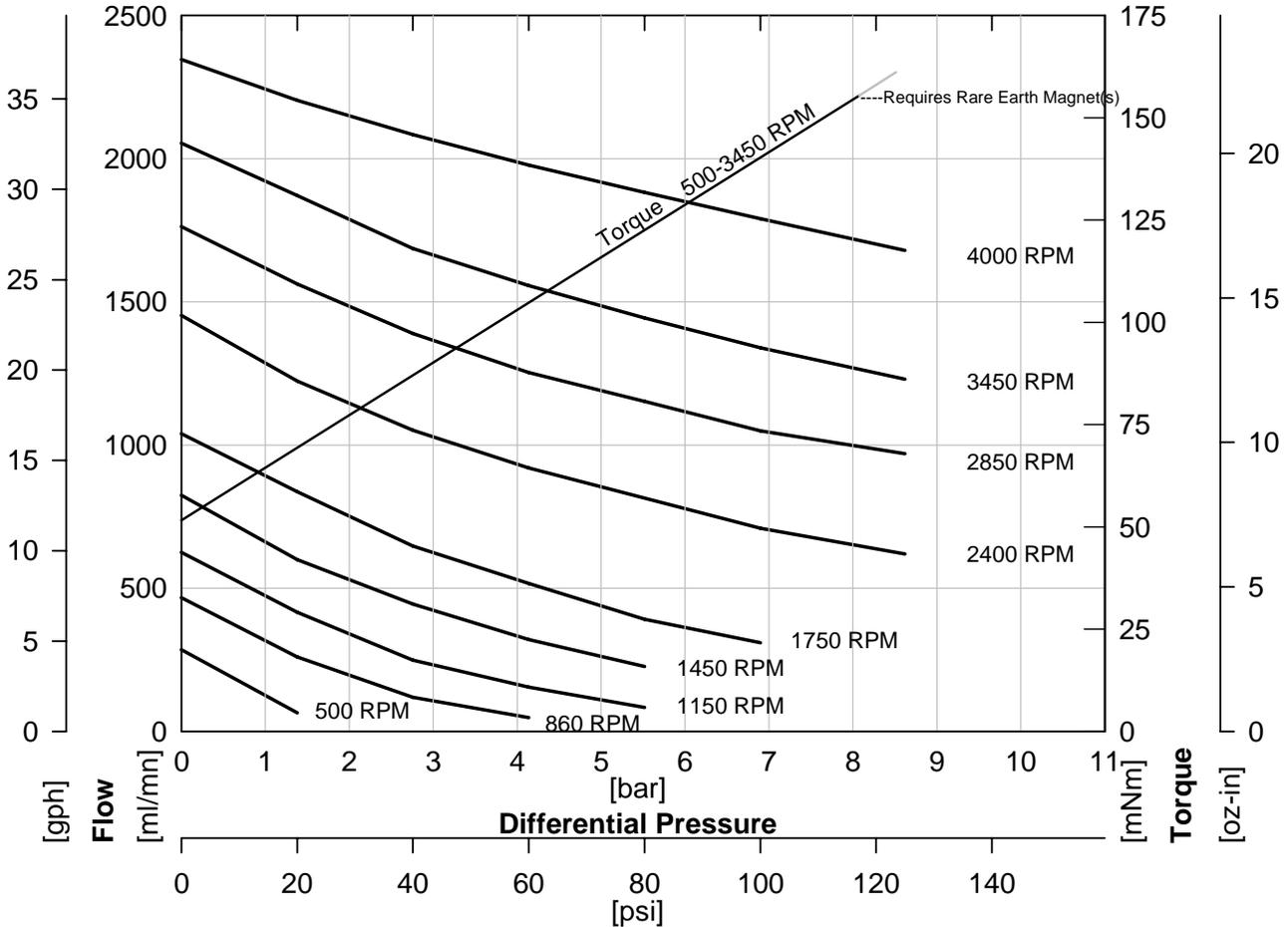
Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	B	-	P25				
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	
Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP25 Stationary Shafts O-Ring Seal (Qty 1)							



Performance

GB-P25

Water @ 1 CP



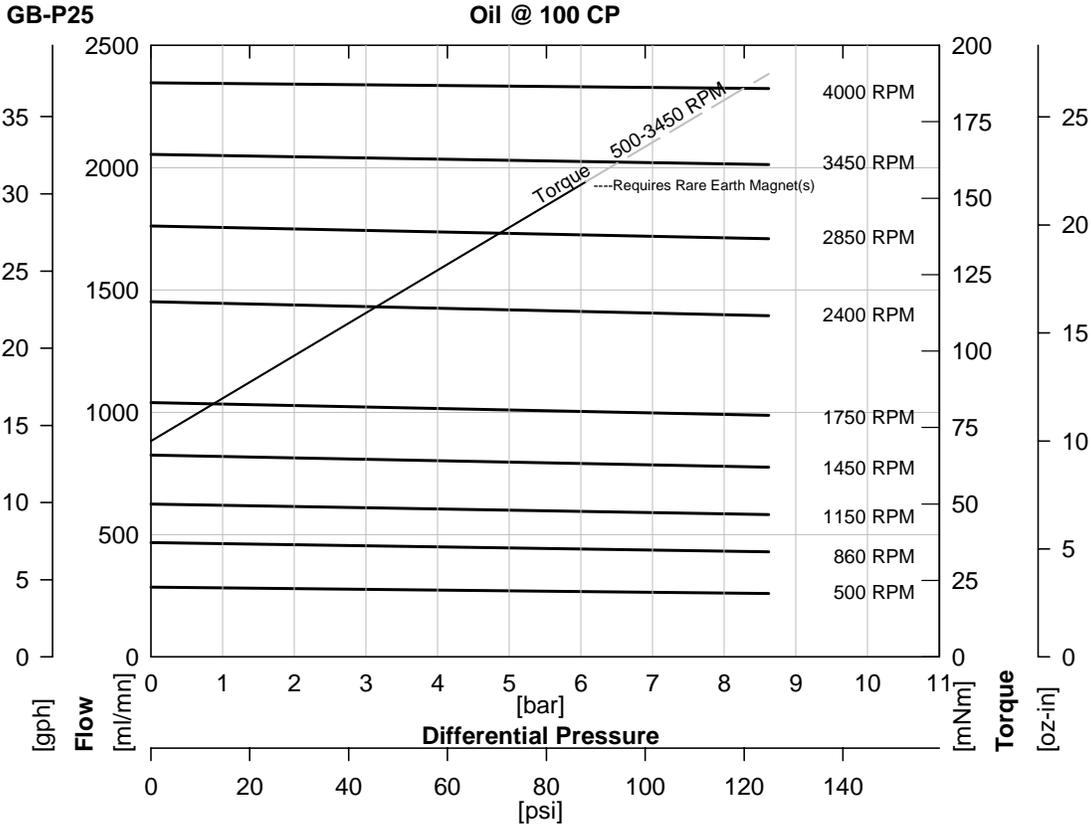
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Order Code				Pump Construction				
Base Code		Gear Set		Drive Mount		Options		
G	B	-	P25	●	●	●		
1	2	3	4	5	6	7	8	
Model			Wetted Materials				O/C: Pump S/K: Service Kit	
Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP25 Stationary 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	1150
[Bar]	[psi]			
0.3	5	0.7	1	2.1
1.4	20	0.8	1	1.9
2.8	40	0.8	1	1.7
4.1	60	0.8	1	1.9
5.5	80	0.8	1	1.4
6.9	100	0.8	1	1.3
8.6	125	0.9	1	1.3

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
Ferrite	Ferrite	155	22
Ferrite	SmCo	212	30
Ferrite	NdFeB	353	50
SmCo	Ferrite	254	36
SmCo	SmCo	565	80
SmCo	NdFeB	777	110

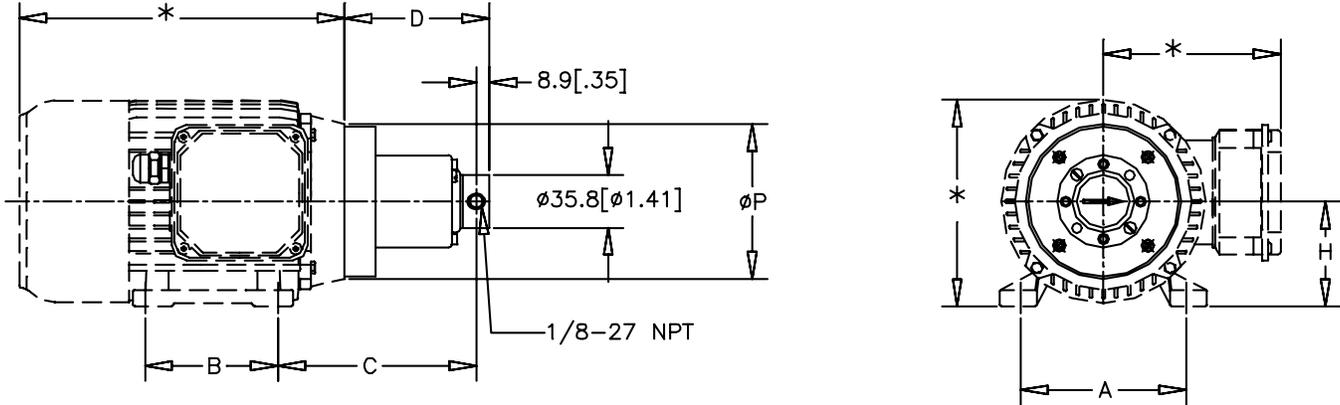
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	B	-	P25	2	4/6		
1	2	3	4	5	6	7	8
Model				Wetted Materials			
				O/C: Pump S/K: Service Kit			
				Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP25 Stationary Shafts O-Ring Seal (Qty 1)			



Dimensions



MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
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⁴ IEC63B14B3	100 [3.94]	80 [3.15]	122.0 [4.80]	90.9 [3.58]	63 [2.48]	90 [3.54]
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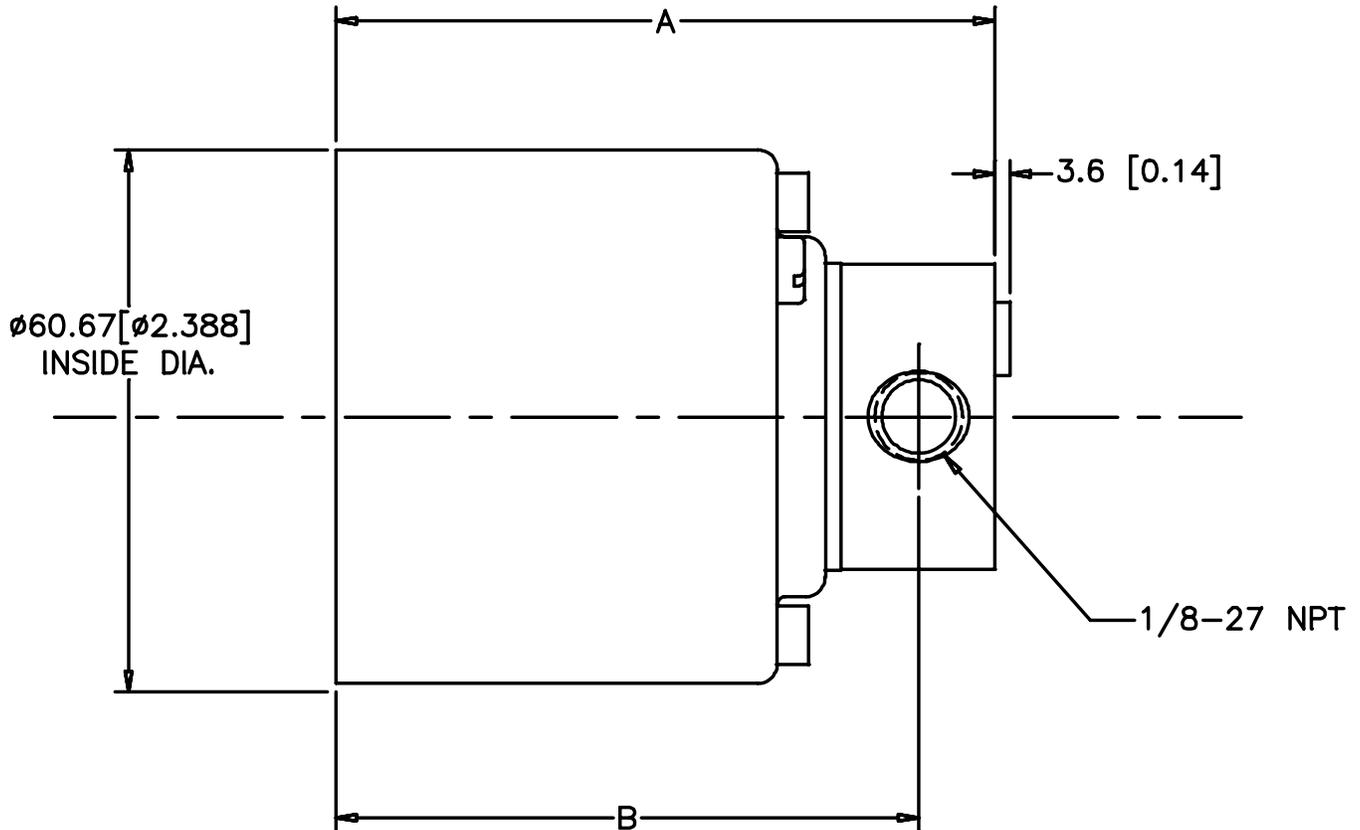
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	B	-	P25			A	
1	2	3	4	5	6	7	8
Model				Wetted Materials			
				O/C: Pump S/K: Service Kit			
				Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP25 Stationary Shafts O-Ring Seal (Qty 1)			



Dimensions



A (MAX) mm [in]	B mm [in]
77.0 [3.03]	68.1 [2.68]

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Technical Data

Series GB

Order Code				Options			
Base Code		Gear Set		Drive Mount			
G	B	-	P35				
1	2	3	4	5	6	7	8
Model			Wetted Materials				
							O/C: Pump S/K: Service Kit

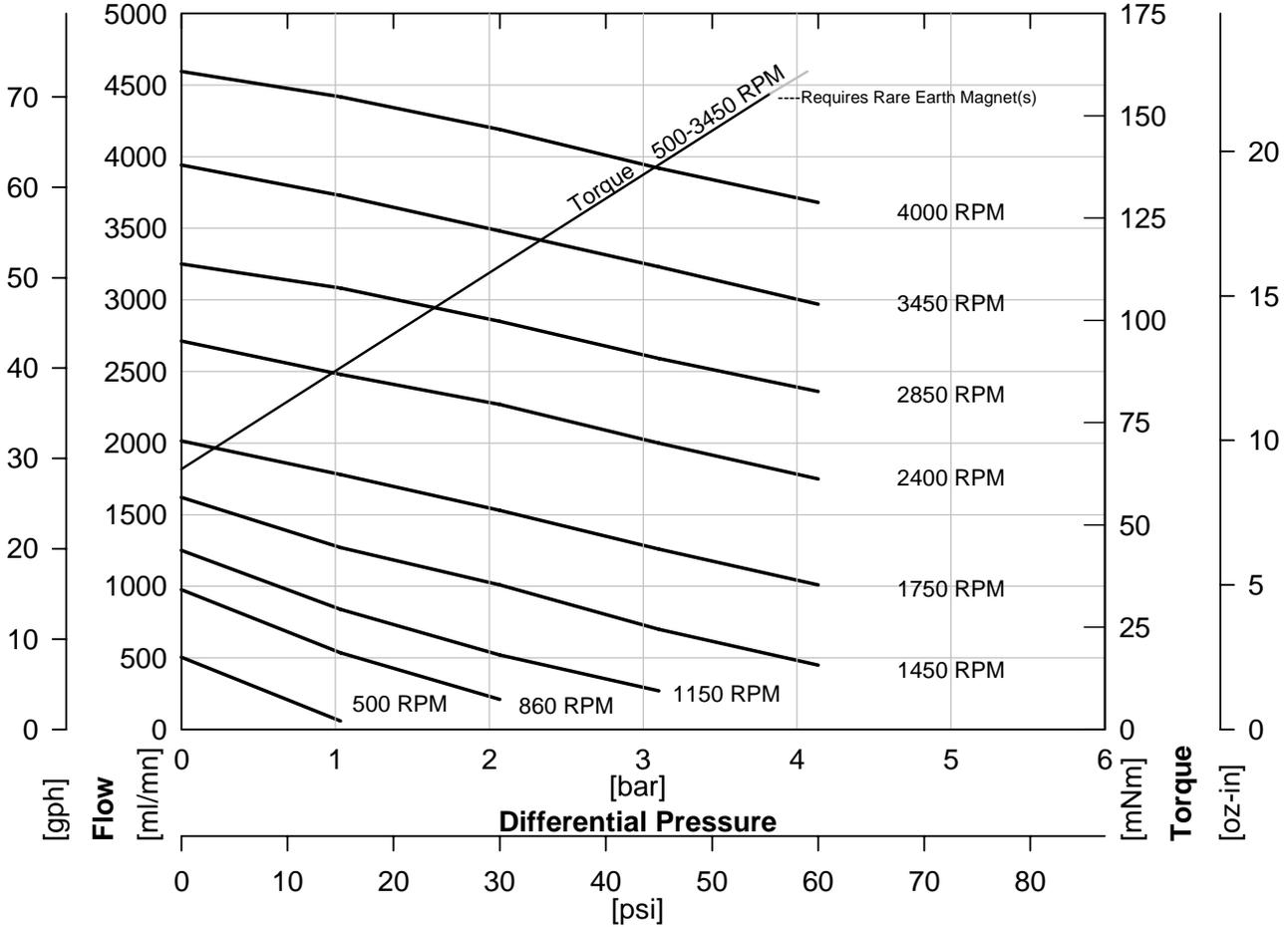
Pump Construction
 Magnetic Drive Gear Pump
 Suction Shoe Style
 Two or Three Helical Gears/DP25
 Stationary Shafts
 O-Ring Seal (Qty 1)



Performance

GB-P35

Water @ 1 CP



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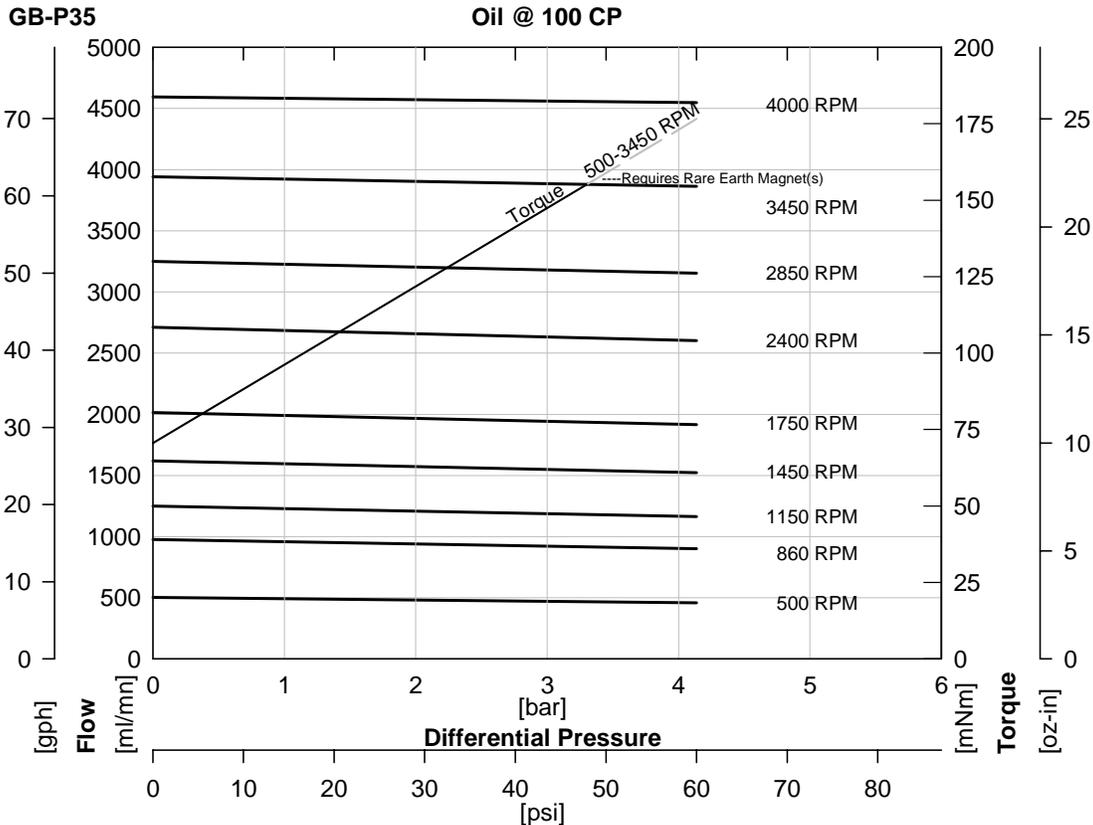
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Page 1

Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	B	-	P35	●	●	●	●
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/DP25 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	300
[Bar]	[psi]			
0.3	5	0.9	1	1.2
1.4	20	0.9	1	1.2
2.8	40	0.9	1	1.1
4.1	60	0.9	1	1.1

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
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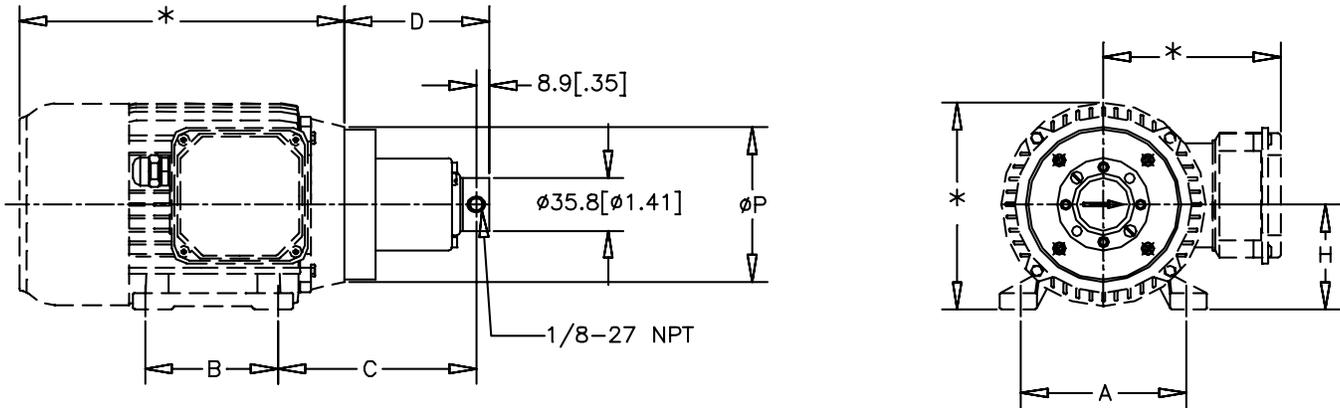
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	B	-	P35	2	4/6		
1	2	3	4	5	6	7	8
Model				Wetted Materials			
				O/C: Pump S/K: Service Kit			
				Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP25 Stationary Shafts O-Ring Seal (Qty 1)			



Dimensions



MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
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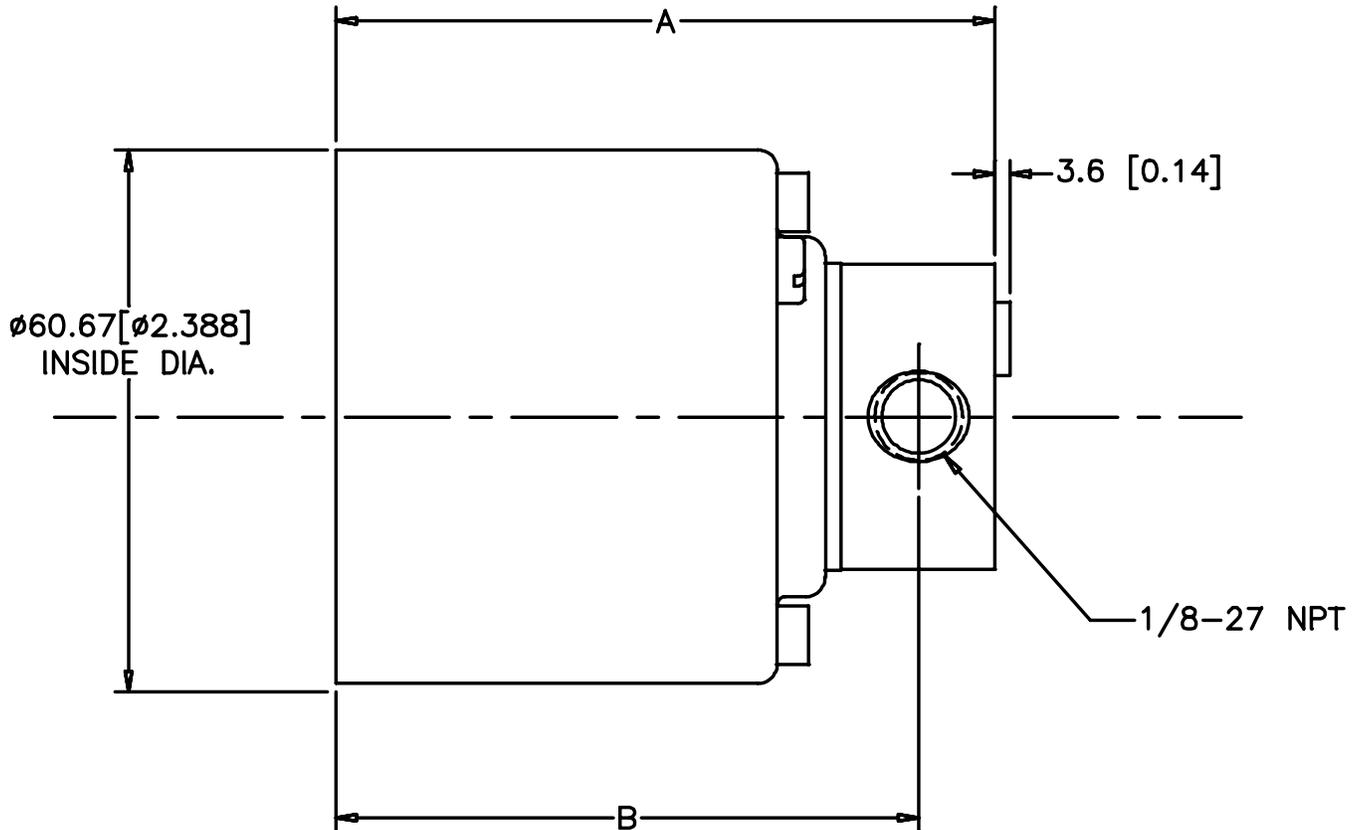
Technical Data

Series GB

Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	B	-	P35			A	
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/DP25 Stationary Shafts O-Ring Seal (Qty 1)			



Dimensions



A (MAX) mm [in]	B mm [in]
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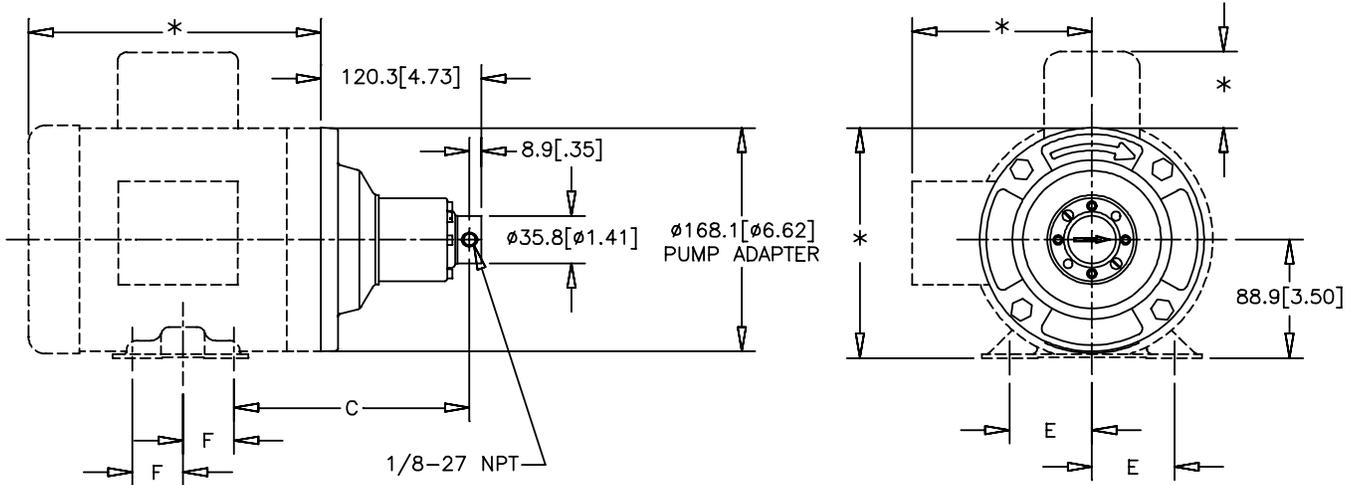
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	B	-	P35			E	
1	2	3	4	5	6	7	8
Model				Wetted Materials			
				O/C: Pump S/K: Service Kit			
				Magnetic Drive Gear Pump Suction Shoe Style Two or Three Helical Gears/DP25 Stationary Shafts O-Ring Seal (Qty 1)			



Dimensions



MOUNT	C mm [in]	E mm [in]	F mm [in]
NEMA ^E 56C	176.7 [6.95]	61.9 [2.44]	38.1 [1.50]
NEMA ^K 143TC	171.8 [6.77]	69.9 [2.75]	50.8 [2.00]
NEMA ^K 145TC	171.8 [6.77]	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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