



Series GB

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

Base Code Select a code character for each numbered position to configure the product.				Notes
1	Code	Product Type	Specifications	
	G	Gear Pump		
2		Product Series	Max System Pressure (MAWP)	Ports
	B	Series GB	21 Bar (300 psi)	1/8-27 (F) NPT Side Ports
3		Modifier		
	-	Standard Design		
4		Gear Set (Width/N°Gears/Pitch)	Displacement	Max Differential Pressure
	P23	0.150/2/25	0.261 ml/rev (0.07 gal/1000*rev)	8.7 Bar (125 psi)
	P25	0.350/2/25	0.58 ml/rev (0.15 gal/1000*rev)	8.7 Bar (125 psi)
	P35	0.350/3/25	1.17 ml/rev (0.31 gal/1000*rev)	4.2 Bar (60 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
	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.			
		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
- Available in SS316 only
 - Available only with industrial IEC or NEMA drive mounts

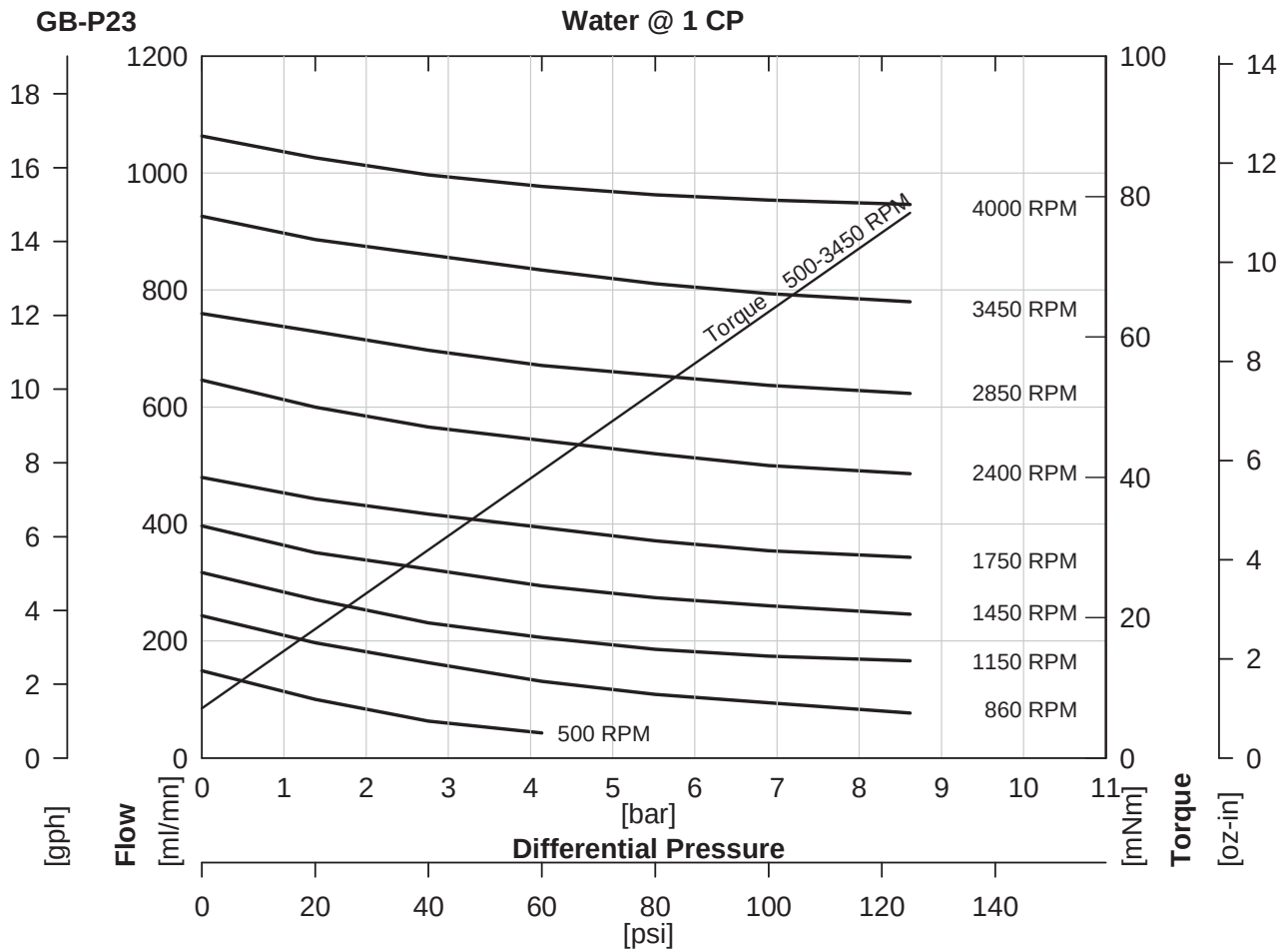
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Order Code				Pump Construction																											
Base Code <table border="1"> <tr> <td>G</td> <td>B</td> <td>-</td> <td>P23</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> </tr> </table>				G	B	-	P23					1	2	3	4	5	6	7	8	Options <table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>											
G	B	-	P23																												
1	2	3	4	5	6	7	8																								
Gear Set Drive Mount 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



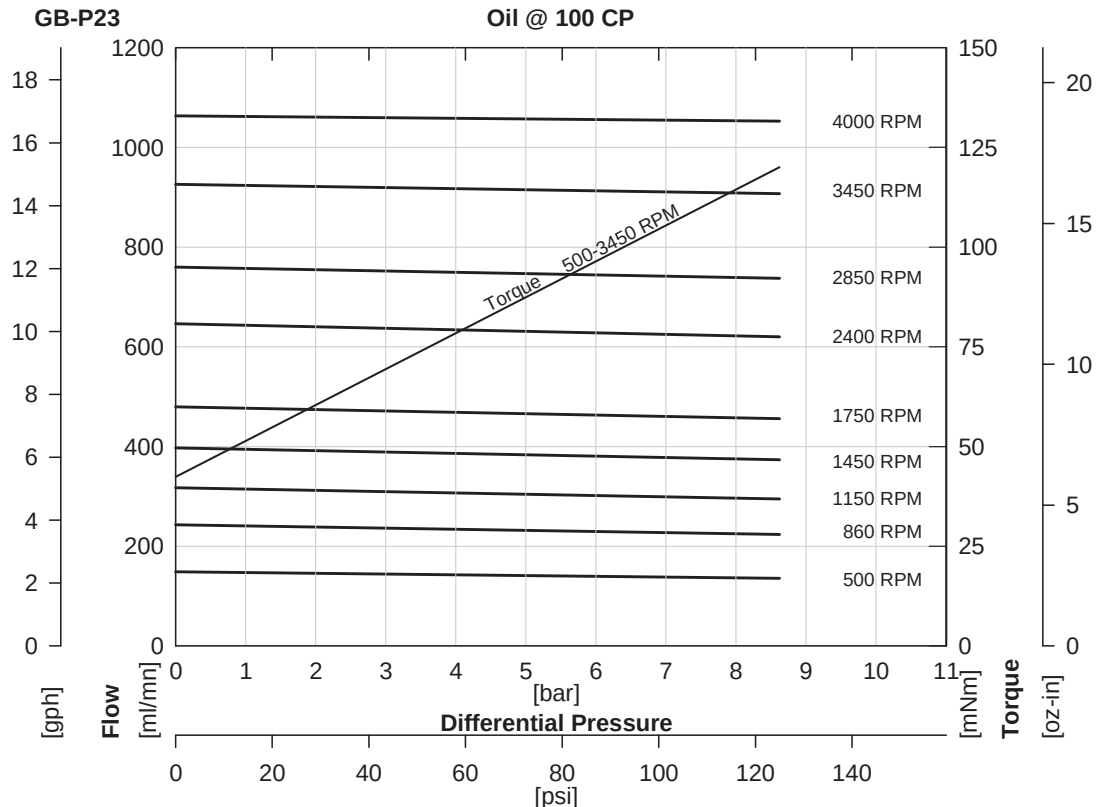
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Order Code				Pump Construction			
Base Code		Gear Set	Drive Mount	Options			
G	B	-	P23				
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	



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



Specifications

	SI	US
Displacement	0.261 ml/rev	0.07 gal/1000*rev
Max Flow (4 Pole Speed)	380 ml/mn 1450 RPM (50Hz)	7.3 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	750 ml/mn 2850 RPM (50Hz)	15 gal/hr 3450 RPM (60Hz)
Max Differential Pressure	1 8.7 Bar	125 psi
Max System Pressure (MAWP)	21 Bar	300 psi
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 1500 cp	0.2 to 1500 cp
Max Speed	10,000 RPM	10,000 RPM
Rotation (Facing Motor Shaft)	CW	CW
Weight (Pumphead)	0.34 kg	0.75 lbs
Dimensions (LxWxH)	See Drawing	See Drawing
Ports	1/8-27 (F) NPT Side Ports	1/8-27 (F) NPT Side Ports
Driven Magnet (Standard)	Ferrite	Ferrite
Optional Internal Bypass	Preset to 3 Bar (pump only)	Preset to 45 psi (pump only)

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.

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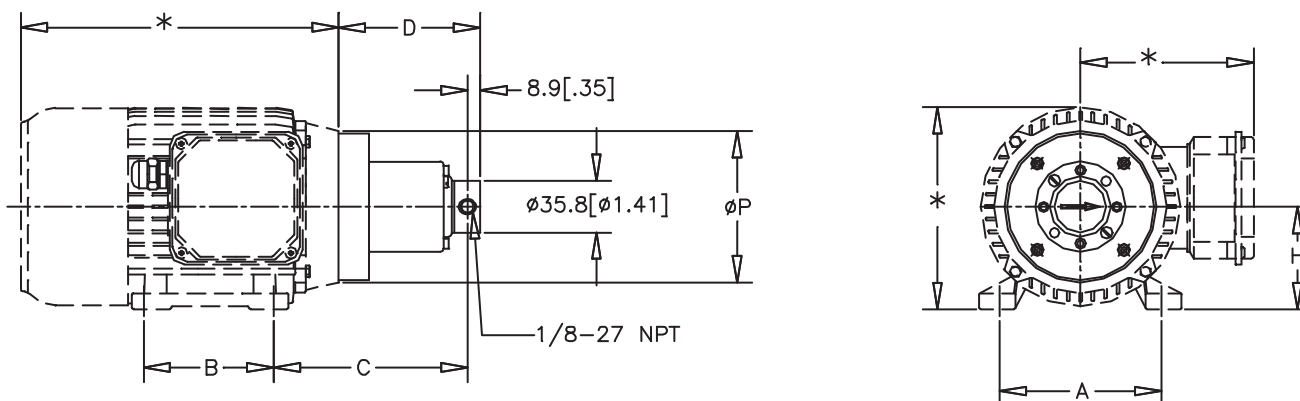
Order Code										Options		
Base Code			Gear Set		Drive Mount							
G	B	-	P23				2/4/6					
1	2	3	4	5	6	7	8					
Model			Wetted Materials									
								O/C: Pump S/K: Service Kit				

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

Pump Construction

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]
² IEC56B14B3	90 [3.54]	71 [2.80]	112.4 [4.43]	85.3 [3.36]	56 [2.20]	80 [3.15]
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:

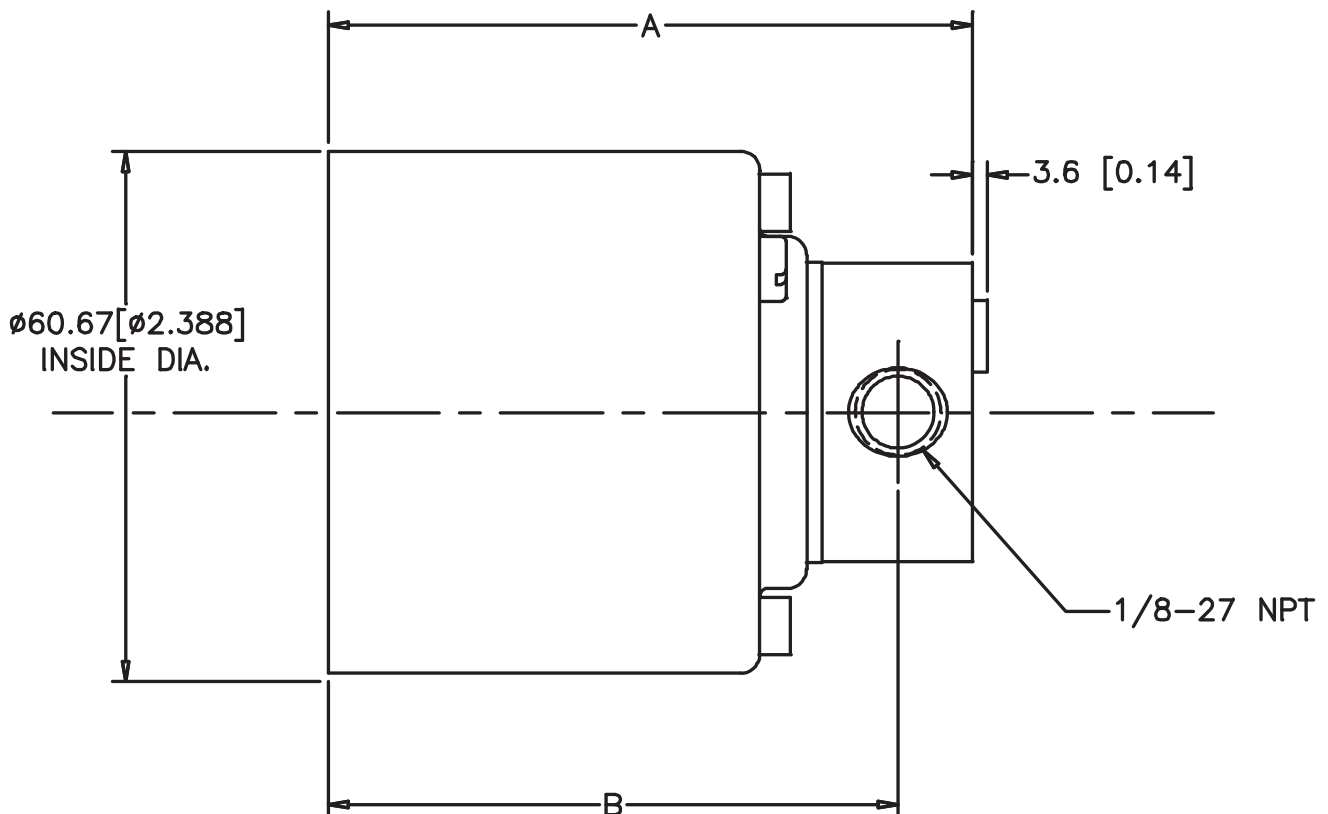
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- ALL DIMENSIONS ARE NOMINAL.

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

Dimensions



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

NOTES:

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Order Code								Options	
Base Code			Gear Set		Drive Mount				
G	B	-	P23				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/DP25

Stationary Shafts

O-Ring Seal (Qty 1)

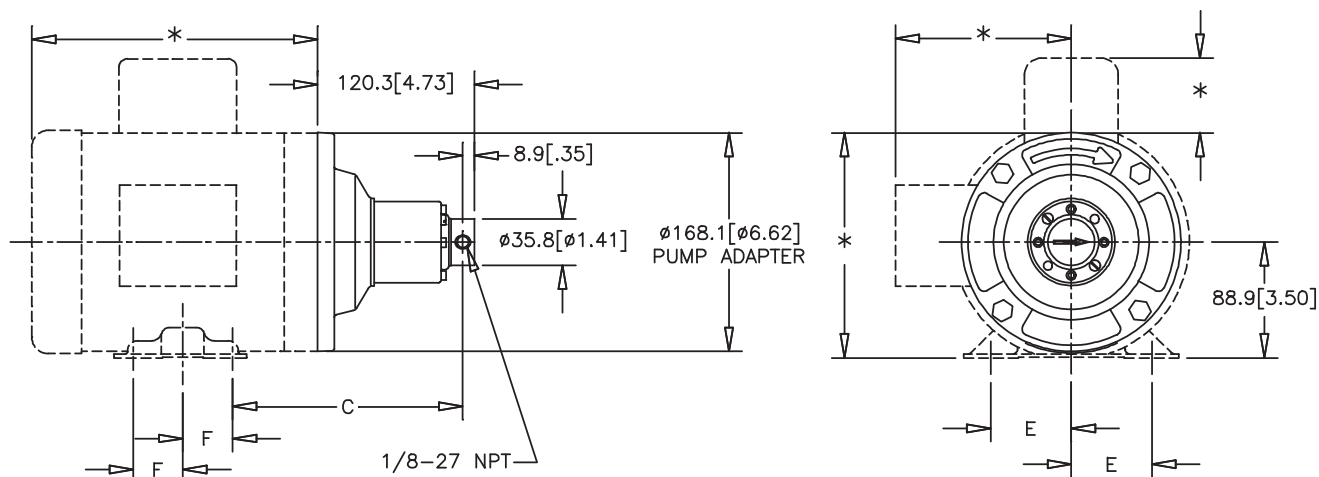


Pump Construction

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

NOTES:

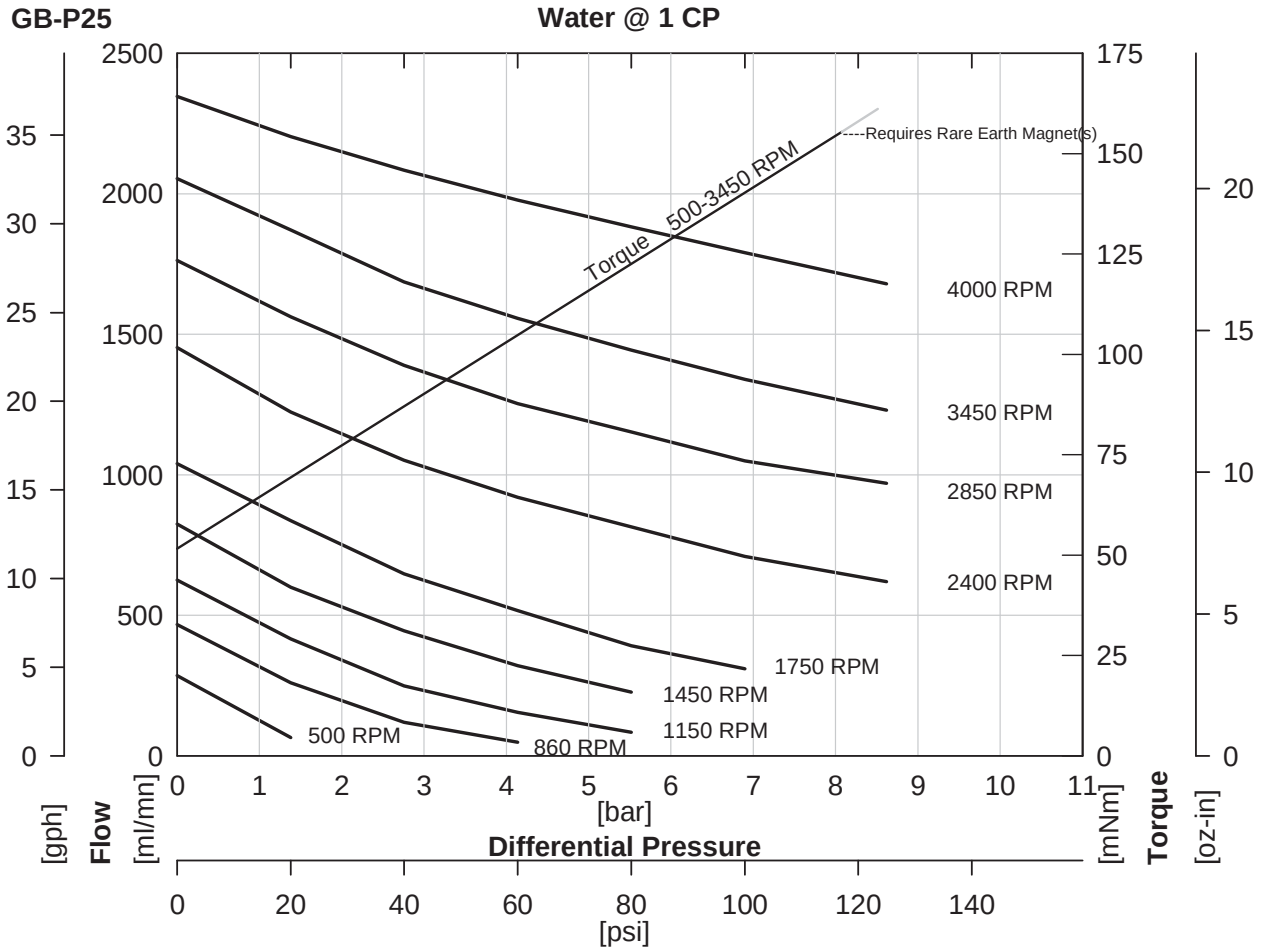
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Base Code			Gear Set		Drive Mount		Options				
G	B	-	P25								
1	2	3	4	5	6	7	8				
Model			Wetted Materials			O/C: Pump S/K: Service Kit					

Performance



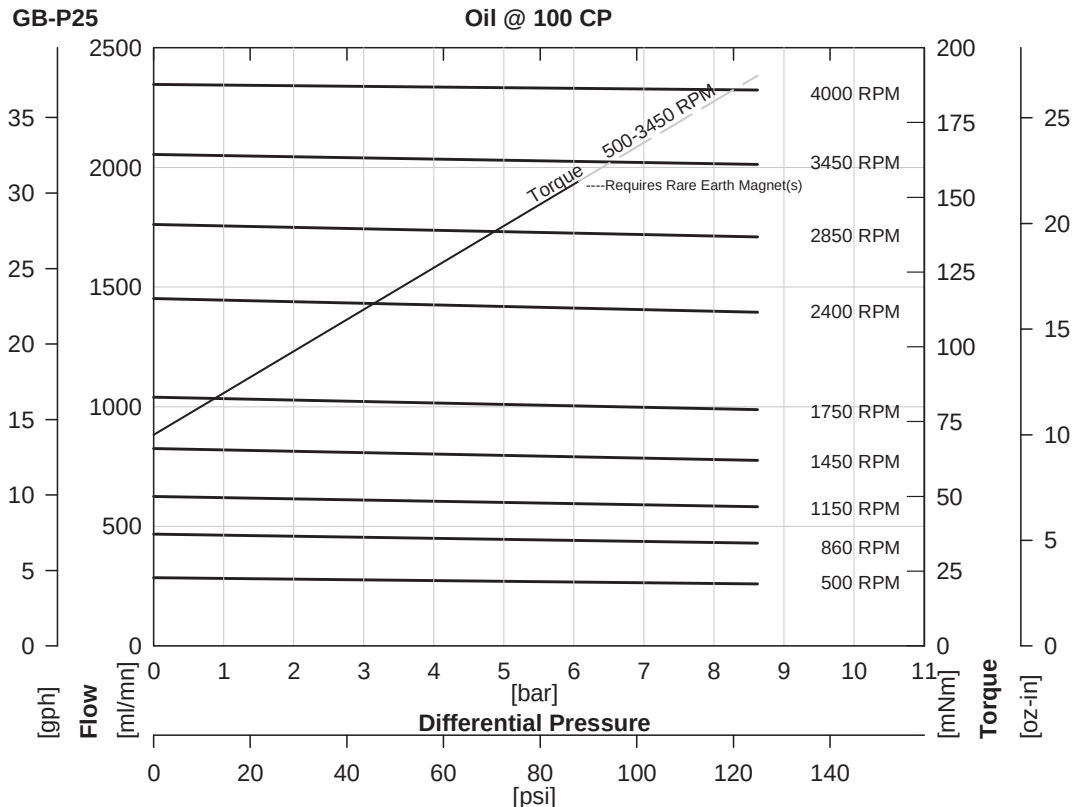
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Base Code		Gear Set	Drive Mount	Options			
G	B	-	P25				
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	



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
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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	



Specifications

	SI	US
Displacement	0.58 ml/rev	0.15 gal/1000*rev
Max Flow (4 Pole Speed)	850 ml/mn 1450 RPM (50Hz)	17 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	1660 ml/mn 2850 RPM (50Hz)	32 gal/hr 3450 RPM (60Hz)
Max Differential Pressure	1 8.7 Bar	125 psi
Max System Pressure (MAWP)	21 Bar	300 psi
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 1500 cp	0.2 to 1500 cp
Max Speed	10,000 RPM	10,000 RPM
Rotation (Facing Motor Shaft)	CW	CW
Weight (Pumphead)	0.34 kg	0.75 lbs
Dimensions (LxWxH)	See Drawing	See Drawing
Ports	1/8-27 (F) NPT Side Ports	1/8-27 (F) NPT Side Ports
Driven Magnet (Standard)	Ferrite	Ferrite
Optional Internal Bypass	Preset to 3 Bar (pump only)	Preset to 45 psi (pump only)

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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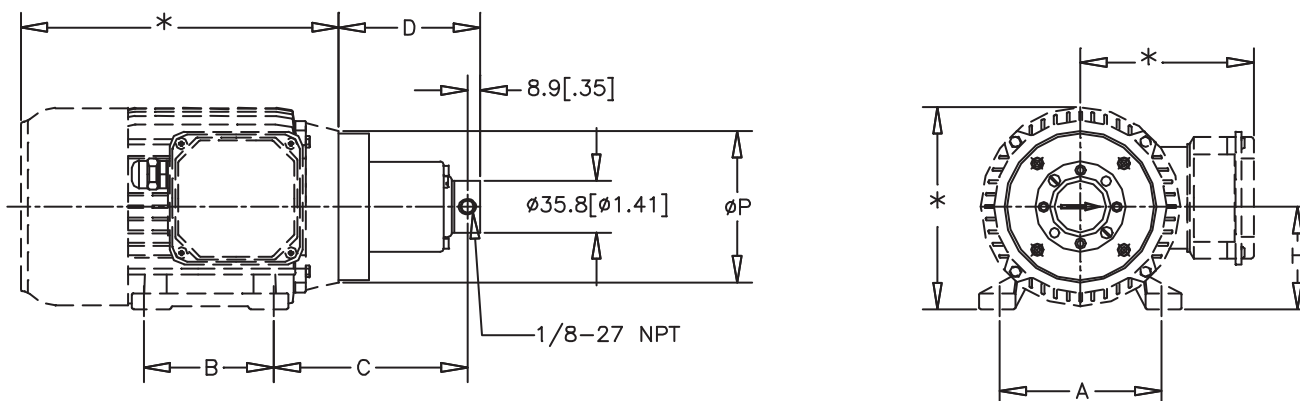
Order Code										
Base Code			Gear Set		Drive Mount		Options			
G	B	-	P25				2/4/6			
1	2	3	4	5	6	7	8			
Model			Wetted Materials							
								O/C: Pump S/K: Service Kit		

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

Pump Construction

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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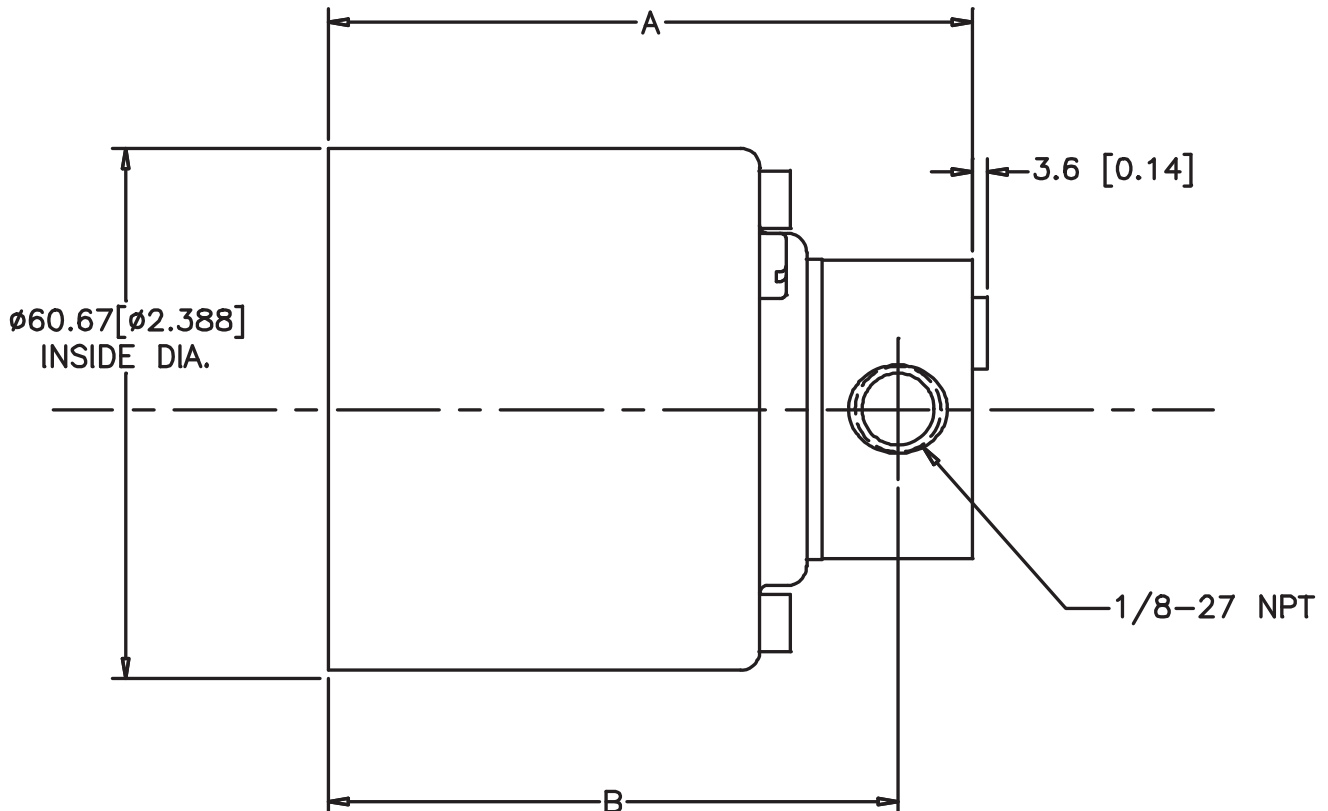


Technical Data

Series GB

Order Code								Pump Construction	
Base Code		Gear Set		Drive Mount		Options			
G	B	-	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]
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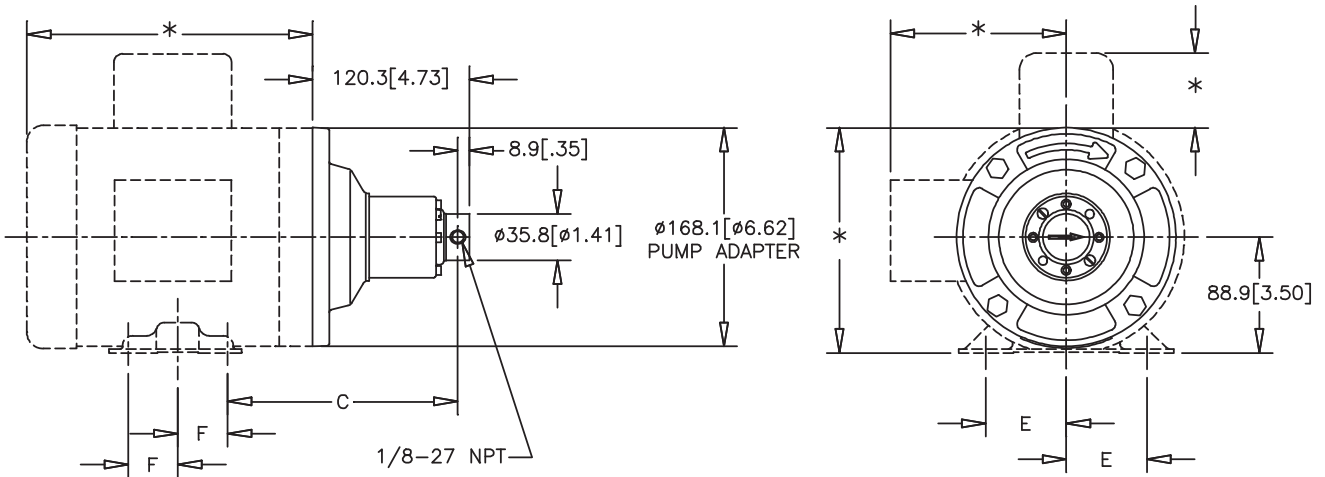
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G	B	-	P25				E		
1	2	3	4	5	6	7	8	O/C: Pump S/K: Service Kit	
Model			Wetted Materials						

Pump Construction
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 56C	176.7 [6.95]	61.9 [2.44]	38.1 [1.50]
NEMA 143TC	171.8 [6.77]	69.9 [2.75]	50.8 [2.00]
NEMA 145TC	171.8 [6.77]	69.9 [2.75]	63.5 [2.50]

NOTES:

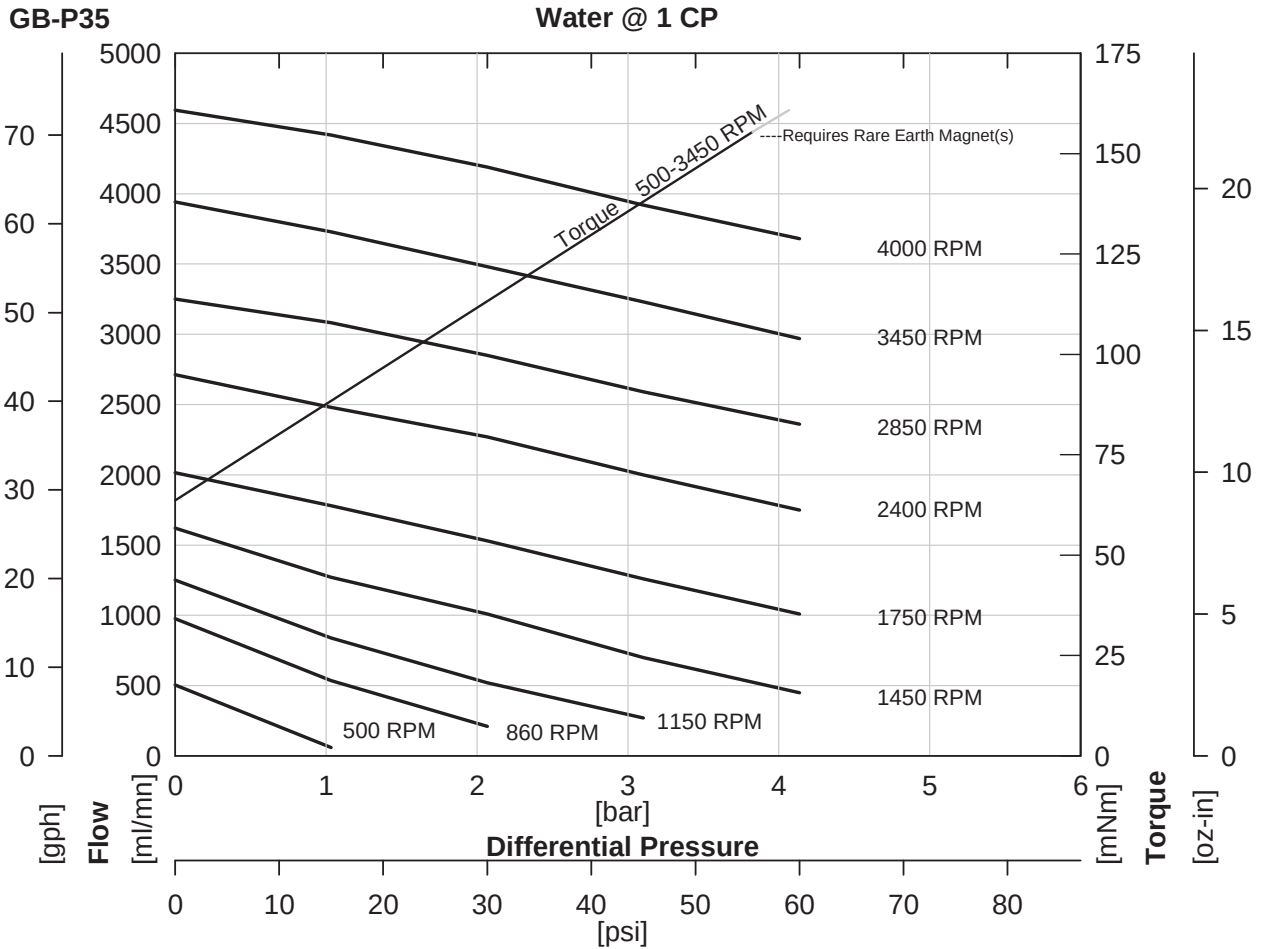
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G	B	-	P35								
1	2	3	4	5	6	7	8				
Model			Wetted Materials			O/C: Pump S/K: Service Kit					

Performance



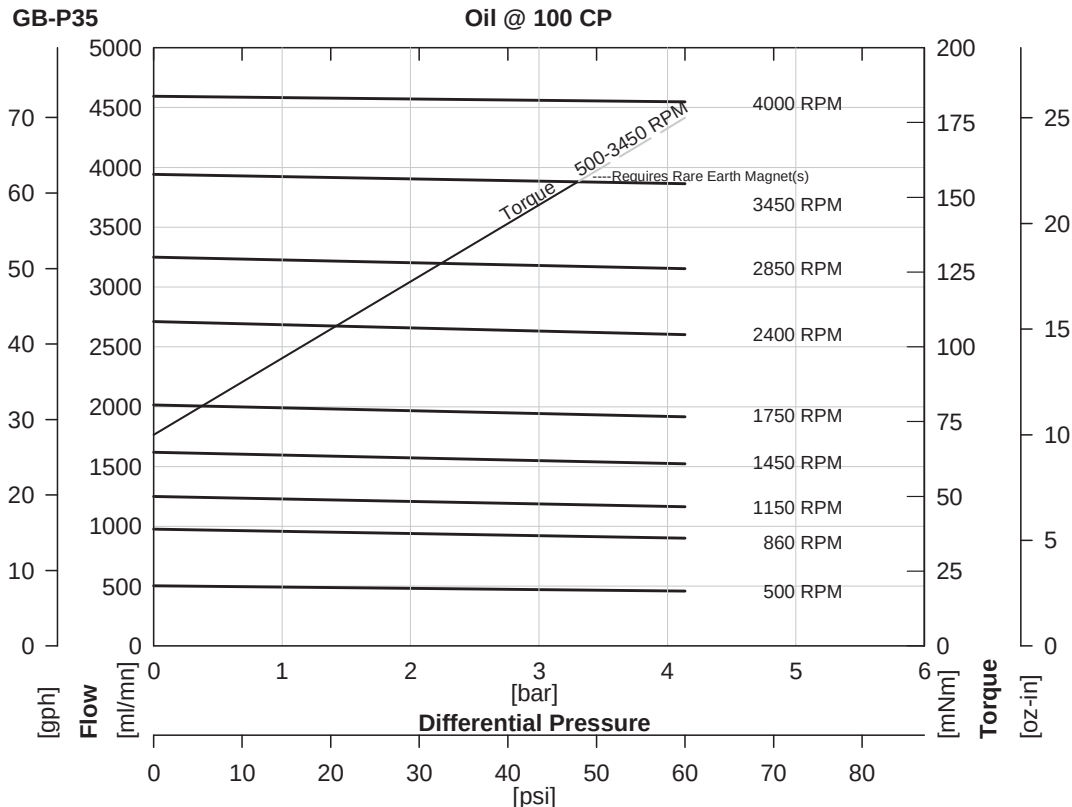
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Base Code		Gear Set		Drive Mount		Options	
G	B	-	P35				
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	



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]
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 <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 15%;">G</td> <td style="width: 15%;">B</td> <td style="width: 15%;">-</td> <td style="width: 15%;">P35</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> </tr> </table> Options <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 15%;">O/C: Pump</td> <td style="width: 15%;">S/K: Service Kit</td> </tr> </table>				G	B	-	P35					1	2	3	4	5	6	7	8	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)			
G	B	-	P35																						
1	2	3	4	5	6	7	8																		
O/C: Pump	S/K: Service Kit																								
Gear Set 1 2 3 4 5 6 7 8 Drive Mount 1 2 3 4 5 6 7 8																									
Model 1 2 3 4 5 6 7 8				Wetted Materials 1 2 3 4 5 6 7 8																					

Specifications

	SI	US
Displacement	1.17 ml/rev	0.31 gal/1000*rev
Max Flow (4 Pole Speed)	1700 ml/mn 1450 RPM (50Hz)	33 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	3340 ml/mn 2850 RPM (50Hz)	1.1 gal/mn 3450 RPM (60Hz)
Max Differential Pressure	4.2 Bar	60 psi
Max System Pressure (MAWP)	21 Bar	300 psi
NIPR (Absolute)	180 mBar	2.5 psia
Wet Lift (Typical)	51 cm.H2O (1450 RPM)	24 in.H2O (1750 RPM)
Temp Range	See Gear Material	See Gear Material
Viscosity Range	0.2 to 1500 cp	0.2 to 1500 cp
Max Speed	10,000 RPM	10,000 RPM
Rotation (Facing Motor Shaft)	CW	CW
Weight (Pumphead)	0.34 kg	0.75 lbs
Dimensions (LxWxH)	See Drawing	See Drawing
Ports	1/8-27 (F) NPT Side Ports	1/8-27 (F) NPT Side Ports
Driven Magnet (Standard)	Ferrite	Ferrite
Optional Internal Bypass	Preset to 3 Bar (pump only)	Preset to 45 psi (pump only)

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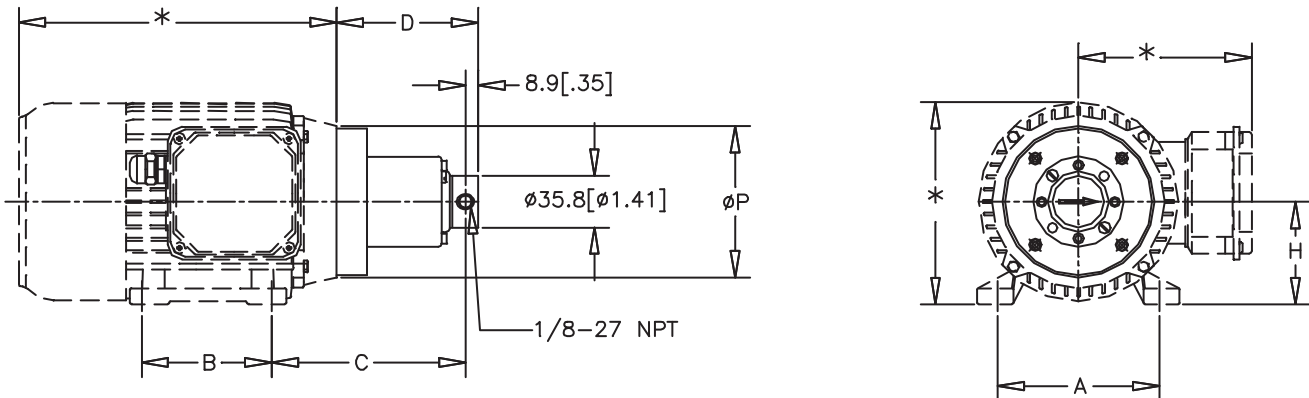
Order Code								Options		
Base Code			Gear Set		Drive Mount					
G	B	-	P35				2/4/6			
1	2	3	4	5	6	7	8			
Model			Wetted Materials			O/C: Pump S/K: Service Kit				

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

Pump Construction

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]
² IEC56B14B3	90 [3.54]	71 [2.80]	112.4 [4.43]	85.3 [3.36]	56 [2.20]	80 [3.15]
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:

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

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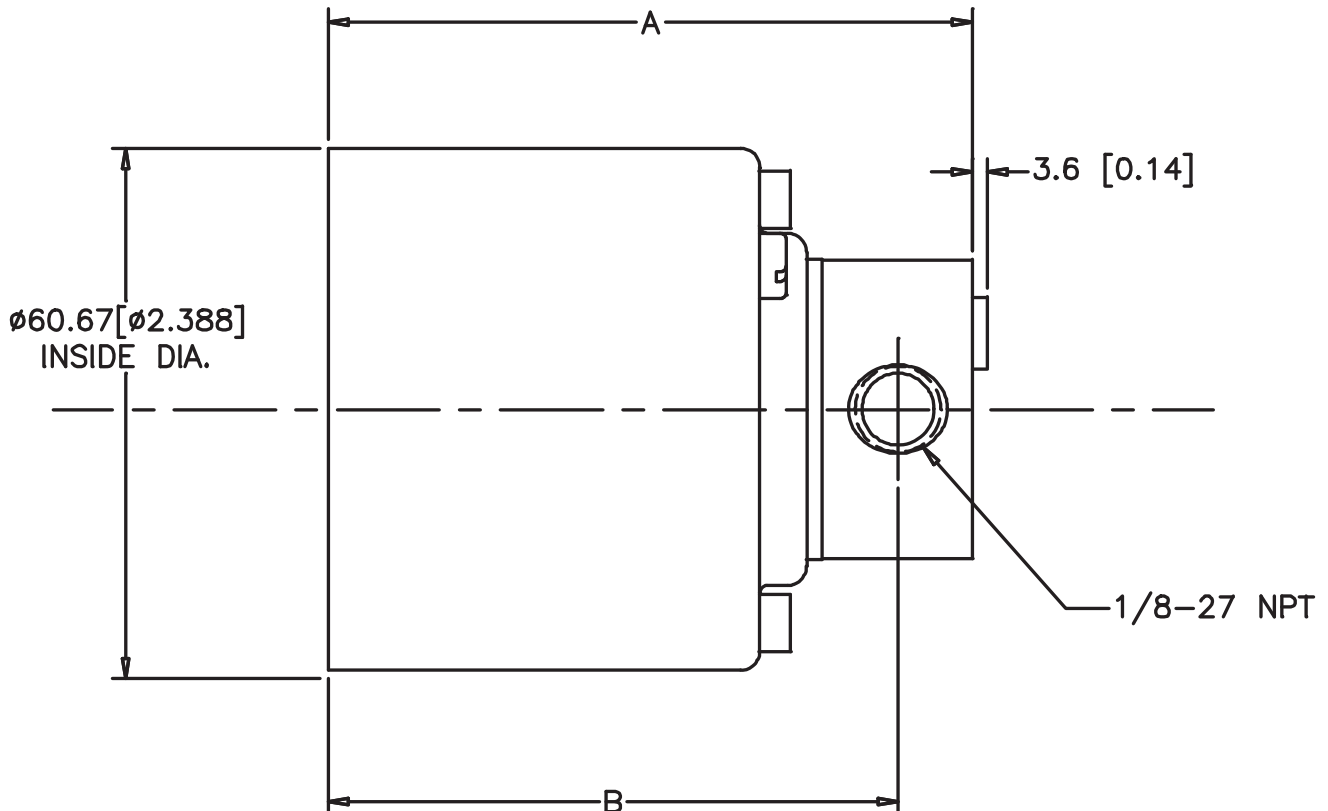
Technical Data

Series GB

Order Code								Options		
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				

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]

NOTES:

1. ALL DIMENSIONS ARE NOMINAL.

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

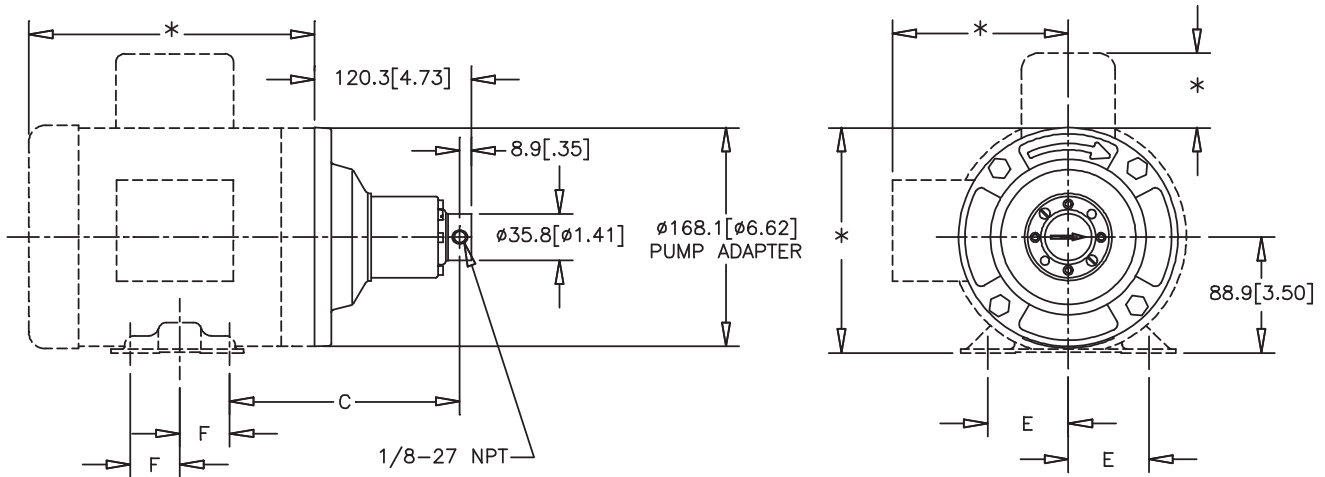
Pump Construction	
Magnetic Drive Gear Pump	
Suction Shoe Style	
Two or Three Helical Gears/DP25	
Stationary Shafts	
O-Ring Seal (Qty 1)	



Pump Construction
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 56C	176.7 [6.95]	61.9 [2.44]	38.1 [1.50]
NEMA 143TC	171.8 [6.77]	69.9 [2.75]	50.8 [2.00]
NEMA 145TC	171.8 [6.77]	69.9 [2.75]	63.5 [2.50]

NOTES:

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