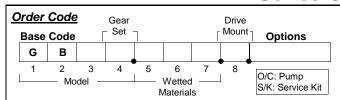


Series Overview

Series GB



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



Base	e Code	Select a code character for each r	numbered position to configu	re the product.		
1	<u>Code</u>	Product Type	<u>Specifications</u>			<u>Notes</u>
	G	Gear Pump				
2		Product Series	Max System Pressure (MAWP)	Ports		
	В	Series GB	21 Bar (300 psi)	1/8-27 (F) NPT Side Ports		
3		Modifier				
	-	Standard Design				
4		Gear Set (Width/NºGears/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	
	Р	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				
	С	Hast C-276®				
8		Drive Mount	Max System Pressure (MAWP)		Weight (Pumphead)	
	Α	MP Housing	21 Bar (300 psi)		0.34 kg (0.75 lbs)	
	SE	EagleDrive™ DEMSx	21 Bar(300 psi) SS316		0.37 kg (0.82 lbs)	
	LE	EagleDrive™ DEELx	21 Bar(300 psi) SS316		0.37 kg (0.82 lbs)	
	Ε	NEMA 56C/143/145TC	21 Bar (300 psi)		1.1 kg (2.4 lbs)	1
	2-6	IEC 56-B14 - IEC 71-B14	21 Bar (300 psi)		1.1 kg (2.4 lbs)	1
Opti	ons	Add Option codes after the Base (Code to modify features or e	nhance the product.		
		Bypass (PC11)	Optional Internal Bypass	,		
	B1	Internal Bypass (SS316)	Preset to 3 Bar (pump only)			2
		Driving Magnet (PC13)	4 1 37		Temp Range	
	N0	Ferrite Driving (Ring)			-46/99°C (-50/210°F)	3
	N1	SmCo Driving (Segments)			-46/260°C (-50/500°F)	3
	N3	NdFeB Driving (Ring)			-46/82°C (-50/180°F)	3

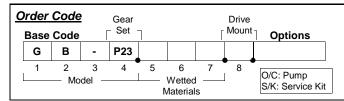
Notes

Rev 2 9/15/2025

- Using industrial IEC or NEMA Adapter Kits mounts 1
- 2 Available in SS316 only
- 3 Available only with industrial IEC or NEMA drive mounts



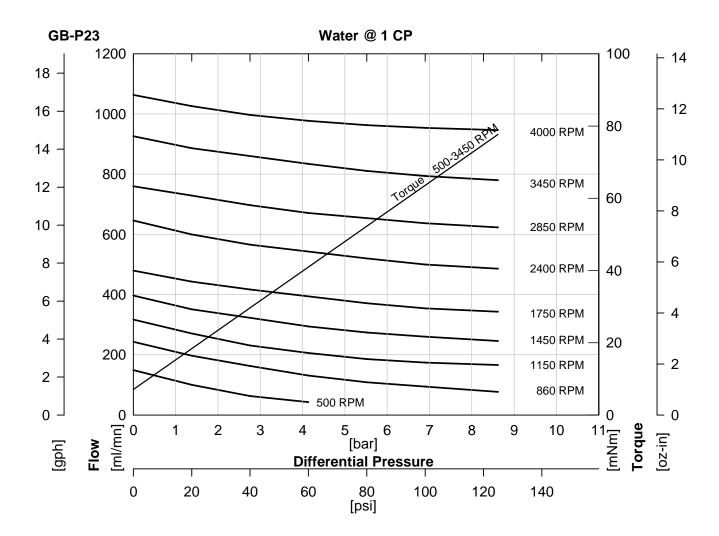
Series GB



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

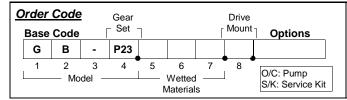


Performance





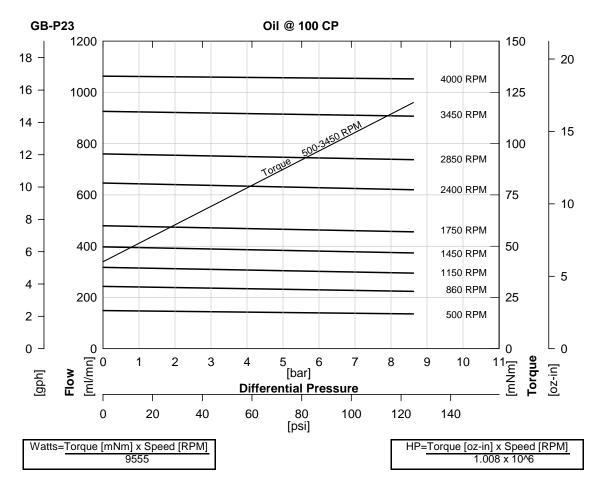
Series GB



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



Performance-High Viscosity



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

Torque Co	Torque Correction Factors: For Higher Viscosity I							
V	iscosity [cp]	1	100	1500				
Max S	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	Driving	Torque	Torque			
Magnet	Magnet Hub		[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			

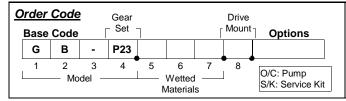
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tmellick, Co. Laois, R32 XYK6, Ireland



Series GB



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



Specifications

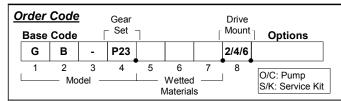
	SI	US
Displacement	0.261 ml/rev	0.07 gal/1000*rev
Max Flow (4 Pole Speed)	380 ml/mn 1450 RPM (50Hz)	7.3 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	750 ml/mn 2850 RPM (50Hz)	15 gal/hr 3450 RPM (60Hz)
Max Differential Pressure 1	8.7 Bar	125 psi
Max System Pressure (MAWP)	21 Bar	300 psi
NIPR (Absolute)	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

- 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.



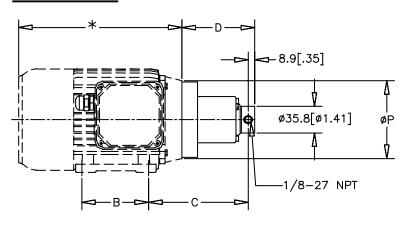
Series GB

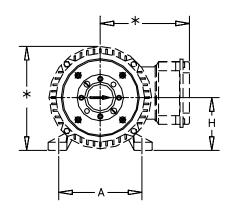


Pump Construction
Magnetic Drive Gear Pump
Suction Shoe Style
Two or Three Helical Gears/DP25
Stationary Shafts
O-Ring Seal (Qty 1)



Dimensions



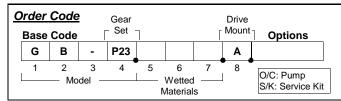


MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
2 IEC56B14B3	90 [3.54]	71 [2.80]	112.4[4.43]	85.3 [3.36]	56 [2.20]	80 [3.15]
4 IEC63B14B3	100 [3.94]	80 [3.15]	122.0[4.80]	90.9 [3.58]	63 [2.48]	90 [3.54]
6 IEC71B14B3	112 [4.41]	90 [3.54]	134.1[5.28]	97.9 [3.86]	71 [2.80]	105 [4.13]

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



Series GB

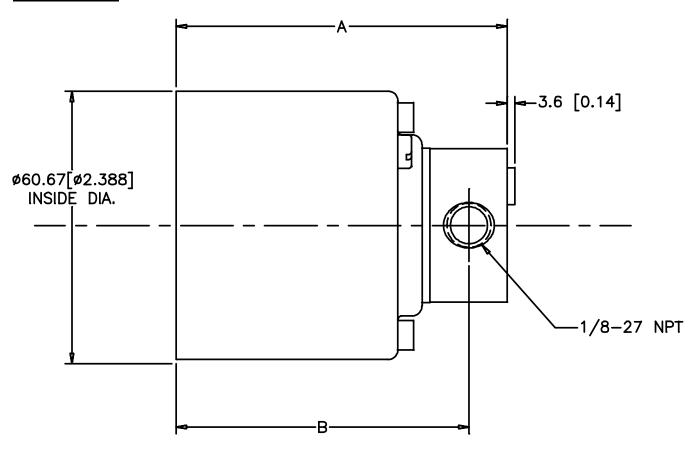


Pump Construction

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



Dimensions



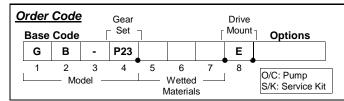
A (MAX)	B
mm [in]	mm [in]
77.0 [3.03]	68.1 [2.68]

NOTES:

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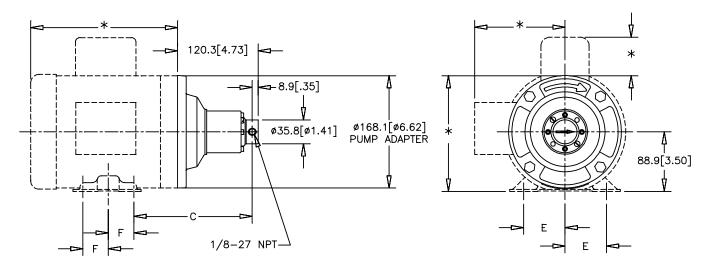
Series GB



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



Dimensions

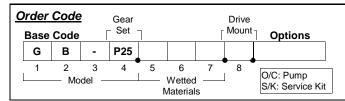


1						
	С		E		F	
MOUNT	mm [in]		mm	n [in]	mm	[in]
E NEMA 56C	176.7	[6.95]	61.9	[2.44]	38.1	[1.50]
K NEMA 143TC		[6.77]				
K NEMA 145TC	171.8	[6.77]	69.9	[2.75]	63.5	[2.50]

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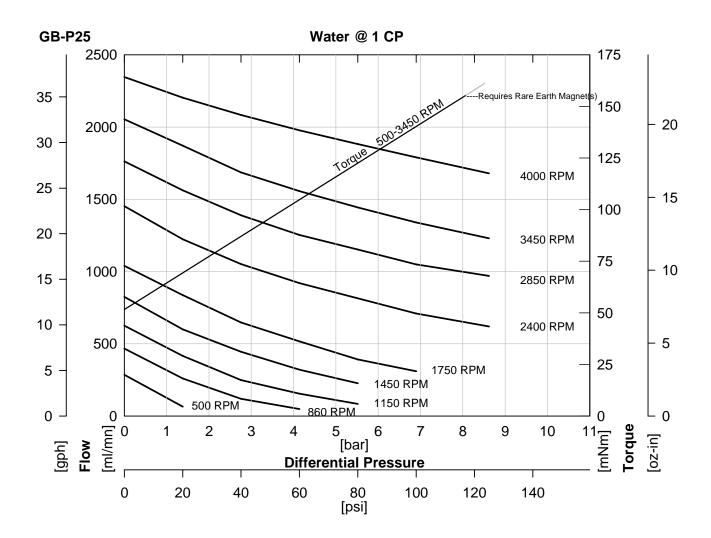
Series GB



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

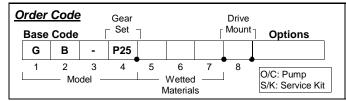


Performance





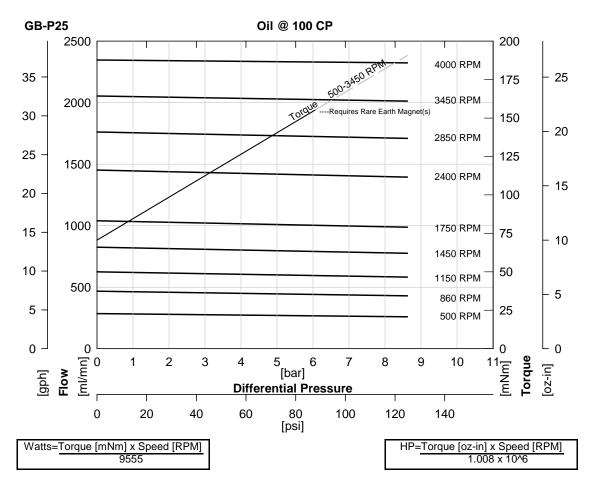
Series GB



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



Performance-High Viscosity



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

Torque C	Torque Correction Factors: For Higher Viscosity Liquids						
		ctors. For The					
	Viscosity [cp]	1	100	1500			
Max	Max Speed [RPM]		3450	1150			
[Bar]	[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	Driving	Torque	Torque			
Magnet	Hub	[mNm]	[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			

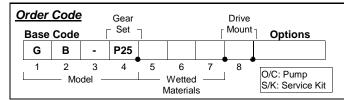
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Series GB



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

110



Specifications

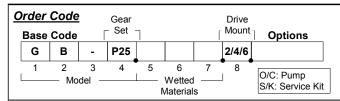
		SI	US
Displacement		0.58 ml/rev	0.15 gal/1000*rev
Max Flow (4 Pole Speed)		850 ml/mn 1450 RPM (50Hz)	17 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)		1660 ml/mn 2850 RPM (50Hz)	32 gal/hr 3450 RPM (60Hz)
Max Differential Pressure	1	8.7 Bar	125 psi
Max System Pressure (MAWP)		21 Bar	300 psi
NIPR (Absolute)		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.



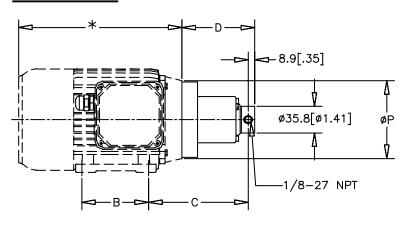
Series GB

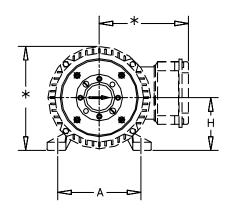


Pump Construction
Magnetic Drive Gear Pump
Suction Shoe Style
Two or Three Helical Gears/DP25
Stationary Shafts
O-Ring Seal (Qty 1)



Dimensions



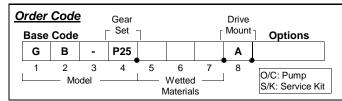


MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
2 IEC56B14B3	90 [3.54]	71 [2.80]	112.4[4.43]	85.3 [3.36]	56 [2.20]	80 [3.15]
4 IEC63B14B3	100 [3.94]	80 [3.15]	122.0[4.80]	90.9 [3.58]	63 [2.48]	90 [3.54]
6 IEC71B14B3	112 [4.41]	90 [3.54]	134.1[5.28]	97.9 [3.86]	71 [2.80]	105 [4.13]

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- 2. ALL DIMENSIONS ARE NOMINAL.



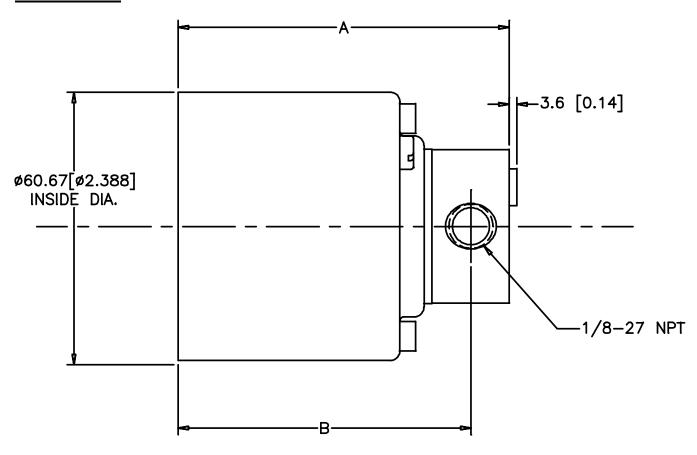
Series GB



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



Dimensions



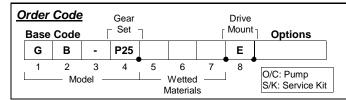
A (MAX)	B
mm [in]	mm [in]
77.0 [3.03]	68.1 [2.68]

NOTES:

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Series GB

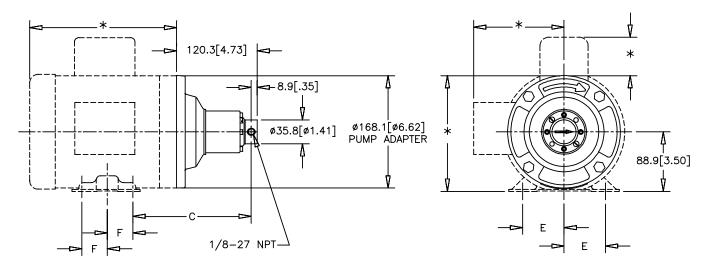


Pump Construction

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



Dimensions

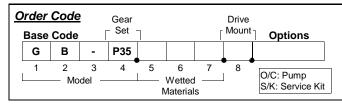


			Г		Г	
MOUNT	mm [in]		mm [in]		mm [in]	
E NEMA 56C	176.7	[6.95]	61.9	[2.44]	38.1	[1.50]
K NEMA 143TC		[6.77]				
K NEMA 145TC	171.8	[6.77]	69.9	[2.75]	63.5	[2.50]

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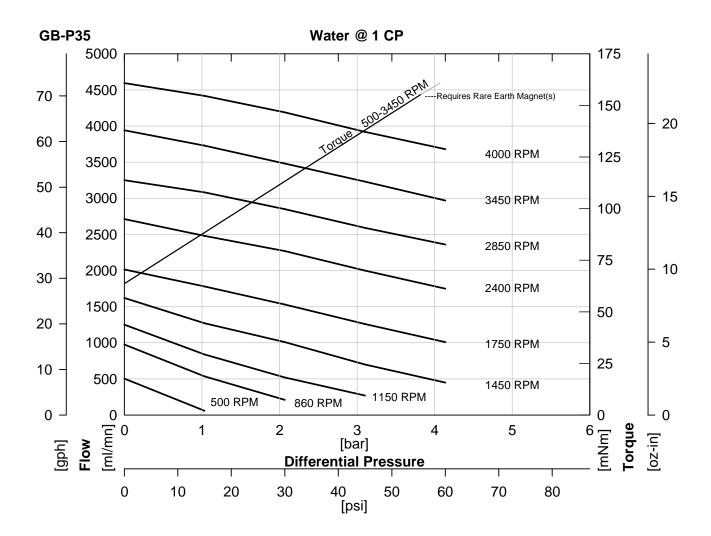
Series GB



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

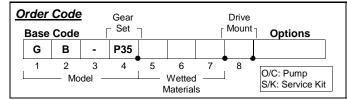


Performance





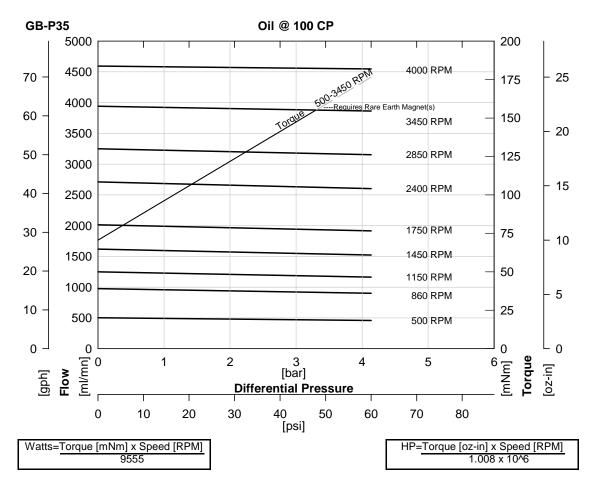
Series GB



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



Performance-High Viscosity



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

Torque C	Torque Correction Factors: For Higher Viscosity Liquids						
Viscosity [cp] Max Speed [RPM]		1	100	1500			
		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			

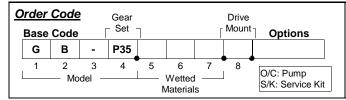
<u> </u>							
Mag	Magnet Decouple Torque						
Driven	Driving	Torque	Torque				
Magnet	Hub	[mNm]	[oz.in]				
Ferrite	Ferrite	155	22				
Ferrite	SmCo	212	30				
Ferrite	NdFeB	353	50				
SmCo	Ferrite	254	36				
SmCo	SmCo	565	80				
SmCo	o NdFeB 777		110				

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Series GB



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



Specifications

		SI
Displacement		1.17 r
Max Flow (4 Pole Speed)		1700
Max Flow (2 Pole Speed)		3340
Max Differential Pressure	1	4.2 Ba
Max System Pressure (MAWP)		21 Ba
NIPR (Absolute)		180 m
Wet Lift (Typical)	2	51 cm
Temp Range	3	See G
Viscosity Range	4	0.2 to
Max Speed		10,00
Rotation (Facing Motor Shaft)		CW
Weight (Pumphead)		0.34 k
Dimensions (LxWxH)		See D
Ports		1/8-27
Driven Magnet (Standard)		Ferrite
Optional Internal Bypass		Prese

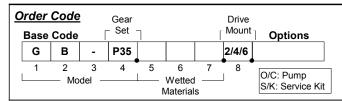
	SI	US
	1.17 ml/rev	0.31 gal/1000*rev
	1700 ml/mn 1450 RPM (50Hz)	33 gal/hr 1750 RPM (60Hz)
	3340 ml/mn 2850 RPM (50Hz)	1.1 gal/mn 3450 RPM (60Hz)
1	4.2 Bar	60 psi
	21 Bar	300 psi
	180 mBar	2.5 psia
2	51 cm.H2O (1450 RPM)	24 in.H2O (1750 RPM)
3	See Gear Material	See Gear Material
4	0.2 to 1500 cp	0.2 to 1500 cp
	10,000 RPM	10,000 RPM
	CW	CW
	0.34 kg	0.75 lbs
	See Drawing	See Drawing
	1/8-27 (F) NPT Side Ports	1/8-27 (F) NPT Side Ports
	Ferrite	Ferrite
	Preset to 3 Bar (pump only)	Preset to 45 psi (pump only)

Notes

- 1 See Product Options. Max pressure depends on gear material.
- Priming ability varies with operating conditions. 2
- See Product Options for specific temp limits.
- See Performance-High Viscosity for viscosity limits.



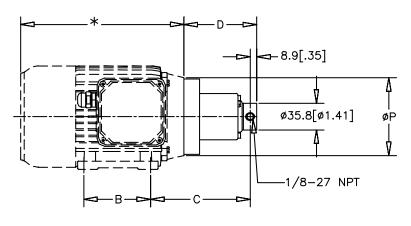
Series GB

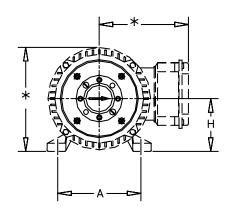


Pump Construction
Magnetic Drive Gear Pump
Suction Shoe Style
Two or Three Helical Gears/DP25
Stationary Shafts
O-Ring Seal (Qty 1)



Dimensions



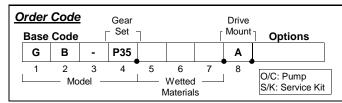


MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
2 IEC56B14B3	90 [3.54]	71 [2.80]	112.4[4.43]	85.3 [3.36]	56 [2.20]	80 [3.15]
4 IEC63B14B3	100 [3.94]	80 [3.15]	122.0[4.80]	90.9 [3.58]	63 [2.48]	90 [3.54]
6 IEC71B14B3	112 [4.41]	90 [3.54]	134.1[5.28]	97.9 [3.86]	71 [2.80]	105 [4.13]

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



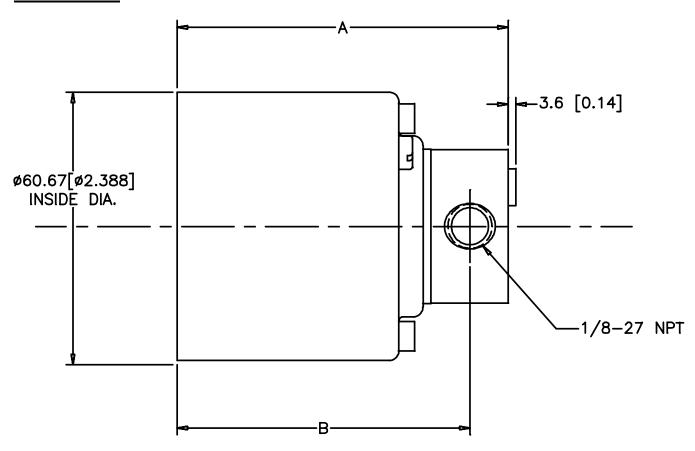
Series GB



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



Dimensions



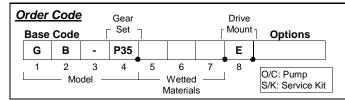
A (MAX)	B
mm [in]	mm [in]
77.0 [3.03]	68.1 [2.68]

NOTES:

1. ALL DIMENSIONS ARE NOMINAL.



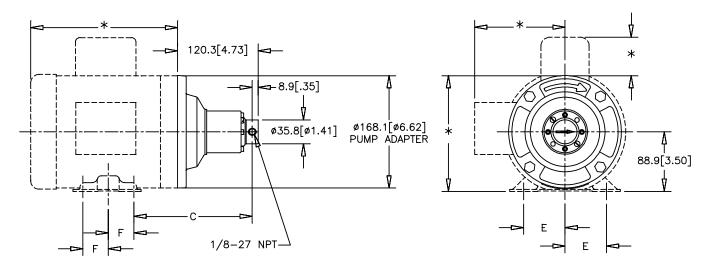
Series GB



Pump Construction
Magnetic Drive Gear Pump
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Stationary Shafts
O-Ring Seal (Qty 1)



Dimensions



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

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