

Order Code				Pump Construction			
Base Code G J 3 4 5 6 7 8 Model Wetted Materials				Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP24 Sleeve Bushings/Gasket Seals (2) PTFE Bevel or O-Ring Seal (1) PPS Driven Magnet			
Options 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	J	Series GJ	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)
	N21	0.175/2/24	0.316 ml/rev (0.08 gal/1000*rev)	5.6 Bar (80 psi) Ferrite 1
	N23	0.350/2/24	0.64 ml/rev (0.17 gal/1000*rev)	5.6 Bar (80 psi) Ferrite
	N25	0.500/2/24	0.91 ml/rev (0.24 gal/1000*rev)	5.6 Bar (80 psi) Ferrite
	N27	0.700/2/24	1.23 ml/rev (0.32 gal/1000*rev)	5.6 Bar (80 psi) Ferrite 9
5		Gear Material	Max Differential Pressure	Temp Range
	F	PTFE	3.5 Bar (50 psi)	-46/99°C (-50/210°F) 2
	P	PPS (carbon fiber/ptfe)	5.2 Bar (75 psi)	-46/121°C (-50/250°F)
	J	PEEK (carbon fiber/ptfe)	5.6 Bar (80 psi)	-46/121°C (-50/250°F)
6		Static Seals		Temp Range
	F1	PTFE Gasket (.004) 5369		-46/54°C (-50/130°F) 3
	F2	PTFE Gasket (.005) 3613		43/77°C (110/170°F) 4
	F3	PTFE Gasket (.006) 4188		71/99°C (160/210°F) 5
	F11	PTFE Gaskets/Viton O-Ring		-29/121°C (-20/250°F)
	F12	PTFE Gaskets/EP O-Ring		-46/121°C (-50/250°F)
	F15	PTFE Gaskets/TEV O-Ring		-29/121°C (-20/250°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)
	B	MP Plate	21 Bar (300 psi)	0.34 kg (0.75 lbs)
	M	I-Drive™ IMS	21 Bar(300 psi) SS316	0.45 kg (1.0 lbs)
	J	I-Drive™ IEG	21 Bar(300 psi) SS316	0.45 kg (1.0 lbs)
	SE	EagleDrive™ DEMSx	21 Bar(300 psi) SS316	0.45 kg (1.0 lbs)
	LE	EagleDrive™ DEELx	21 Bar(300 psi) SS316	0.45 kg (1.0 lbs)
	E	NEMA 56C/143/145TC	21 Bar (300 psi)	1.2 kg (2.6 lbs) 6
	2-6	IEC 56-B14 to 71-B14	21 Bar (300 psi)	1.2 kg (2.6 lbs) 6

Order Code										Pump Construction	
Base Code		Gear Set			Drive Mount			Options			
G	J										
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/DP24 Sleeve Bushings/Gasket Seals (2) PTFE Bevel or O-Ring Seal (1) PPS Driven Magnet	

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		7	
Driven Magnet (PC12)			Temp Range		
M1	SmCo Driven (Segments)				-46/260°C (-50/500°F)
M3	NdFeB Driven (Ring)				-46/82°C (-50/180°F)
Driving Magnet (PC13)			Temp Range		
N0	Ferrite Driving (Ring)				-46/99°C (-50/210°F) 8
N1	SmCo Driving (Segments)				-46/260°C (-50/500°F) 8
N3	NdFeB Driving (Ring)				-46/82°C (-50/180°F) 8
Ports/Fittings (PC17)		Ports	Ports		
P2	1/8-27 BSPP Ports	1/8-27 BSPP (F) Side Ports			
P4	1/4-18 NPT Ports	1/4-18 NPT (F) Side Ports			
P31	1/4-19 BSPP Ports	1/4-19 BSPP (F) Side Ports			
Port Orientation (PC18)					
Q1	Deck Ports				

Notes

- N21 gear set ordered in PTFE gear material, order only F2 or F3 static seal
- PTFE gear material ordered in N21 gear set, order only F2 or F3 static seal
- Do not order F1 seals if ordering N21 gear set in PTFE gear material, Temperature limit listed only apply to PTFE gear material products
- Temperature limit listed only apply to PTFE gear material products
- Temperature limit listed only apply to PTFE gear material products
- Using industrial IEC or NEMA Adapter Kits mounts
- Only available in 316SS/PTFE materials
- Available only with industrial IEC or NEMA drive mounts
- N27 gear set only offered in PEEK and PPS gear materials

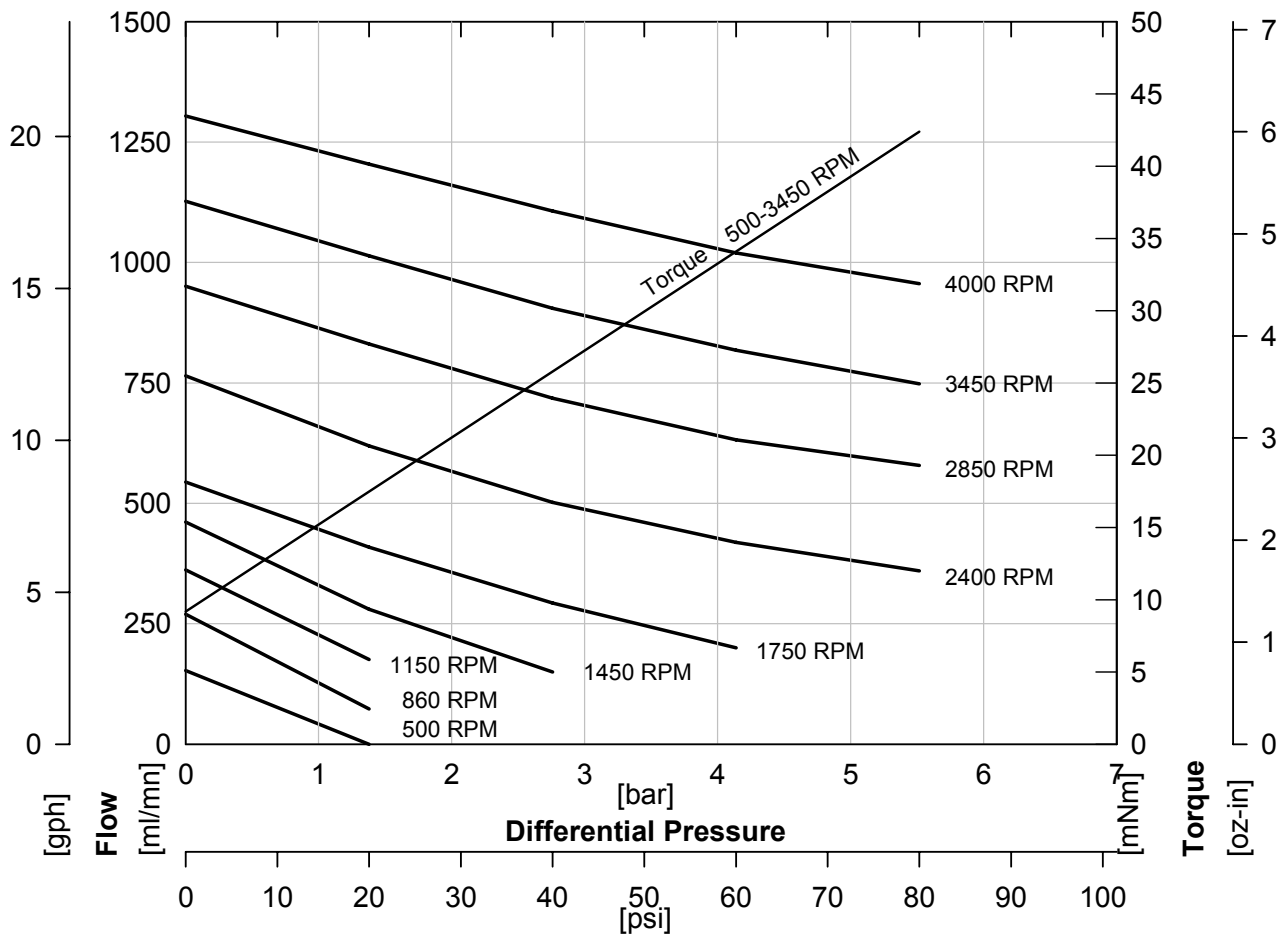
Order Code				Gear				Drive Mount				Options				Pump Construction			
Base Code				Set				Mount											
G	J	-	N21																
1	2	3	4	5	6	7	8												
Model				Wetted Materials				O/C: Pump S/K: Service Kit											



Performance

GJ-N21

Water @ 1 CP



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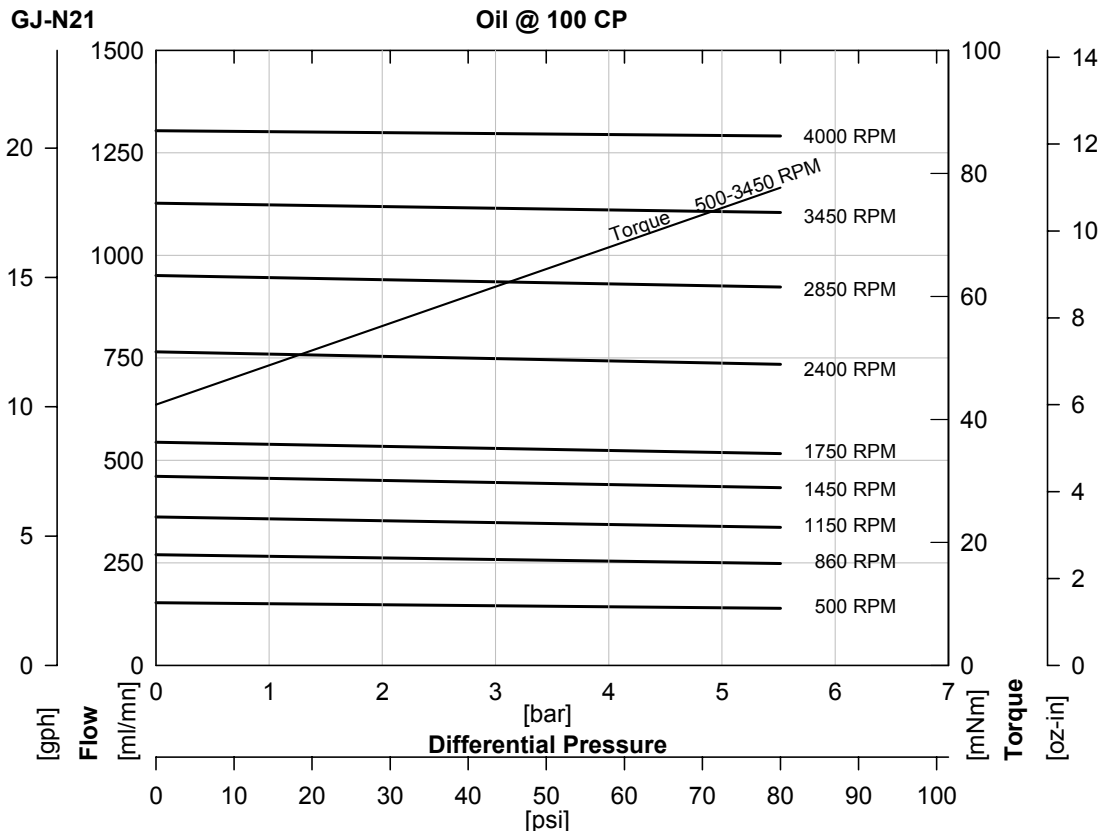
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Order Code				Gear				Drive Mount				Options				Pump Construction			
Base Code				Set				Mount											
G	J	-	N21																
1	2	3	4	5	6	7	8												
Model				Wetted Materials				O/C: Pump S/K: Service Kit											



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]		10000	3450	860
[Bar]	[psi]			
0.3	5	0.2	1	2.3
1.4	20	0.3	1	2.1
2.8	40	0.4	1	1.9
4.1	60	0.5	1	1.8
5.5	80	0.5	1	1.6

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
Ferrite	Ferrite*	113	16
Ferrite	Ferrite**	134	19
Ferrite	SmCo	254	36
SmCo	SmCo	636	90
Ferrite	NdFeB	304	43
SmCo	NdFeB	932	132

*-Indicates performance limit with standard A or B mount coupling

** -Indicates performance limit with IEC or NEMA industrial mount coupling

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Order Code										Pump Construction	
Base Code				Gear - Set		Drive Mount -		Options			
G	J	-	N21						Magnetic Drive Gear Pump		
1	2	3	4	5	6	7	8		Cavity Style		
Model				Wetted Materials				O/C: Pump S/K: Service Kit			Two Helical, Shafted Gears/DP24
											Sleeve Bushings/Gasket Seals (2)
										PTFE Bevel or O-Ring Seal (1)	
										PPS Driven Magnet	

Pump Construction
Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

Specifications

	SI	US
Displacement	0.316 ml/rev	0.08 gal/1000*rev
Max Flow (4 Pole Speed)	460 ml/mn 1450 RPM (50Hz)	8.9 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	910 ml/mn 2850 RPM (50Hz)	18 gal/hr 3450 RPM (60Hz)
Max Differential Pressure	5.6 Bar	80 psi
Max System Pressure (MAWP)	21 Bar	300 psi
NIPR (Absolute)	180 mBar	2.5 psia
Wet Lift (Typical)	51 cm.H ₂ O (1450 RPM)	24 in.H ₂ O (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)	0.45 kg	1.0 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 (G drive to 5.4 bar)	Preset to 45 psi (G drive to 80 psi)

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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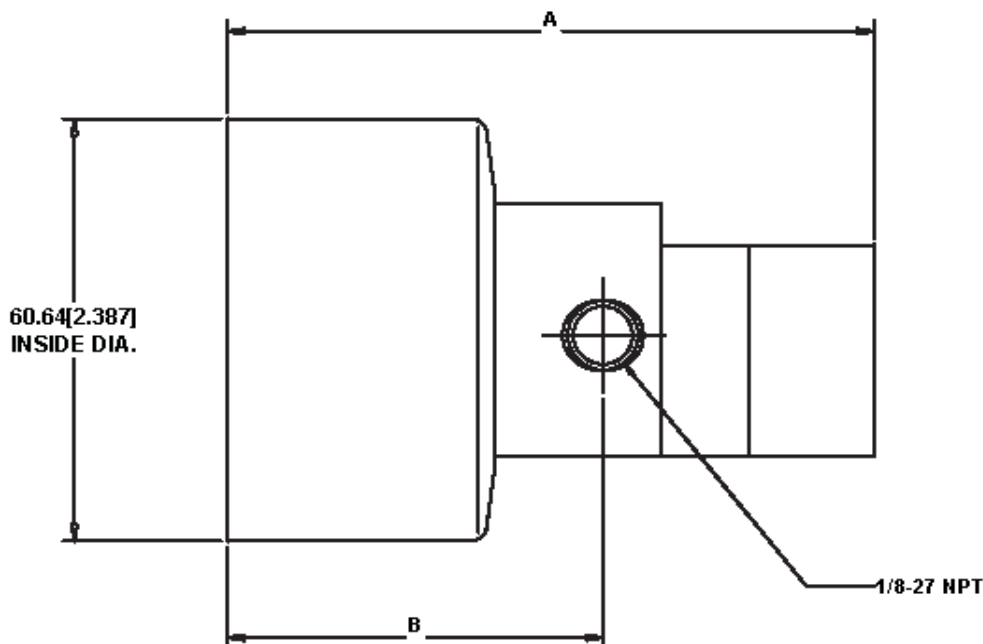
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<u>Order Code</u>								<u>Pump Construction</u>		
Base Code		Gear Set		Drive Mount		Options		Magnetic Drive Gear Pump		
G	J	-	N21			A		Cavity Style		
1	2	3	4	5	6	7	8	Two Helical, Shafted Gears/DP24		
Model				Wetted Materials				Sleeve Bushings/Gasket Seals (2)		
								PTFE Bevel or O-Ring Seal (1)		
								PPS Driven Magnet		

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

Dimensions



GEAR SET	A (MAX) mm [in]	B mm [in]
N21	86.0 [3.39]	54.6 [2.15]
N23	90.4 [3.56]	54.6 [2.15]
N25	94.4 [3.72]	54.6 [2.15]
N27	99.2 [3.91]	54.6 [2.15]

NOTES:

1. ALL DIMENSIONS ARE NOMINAL.

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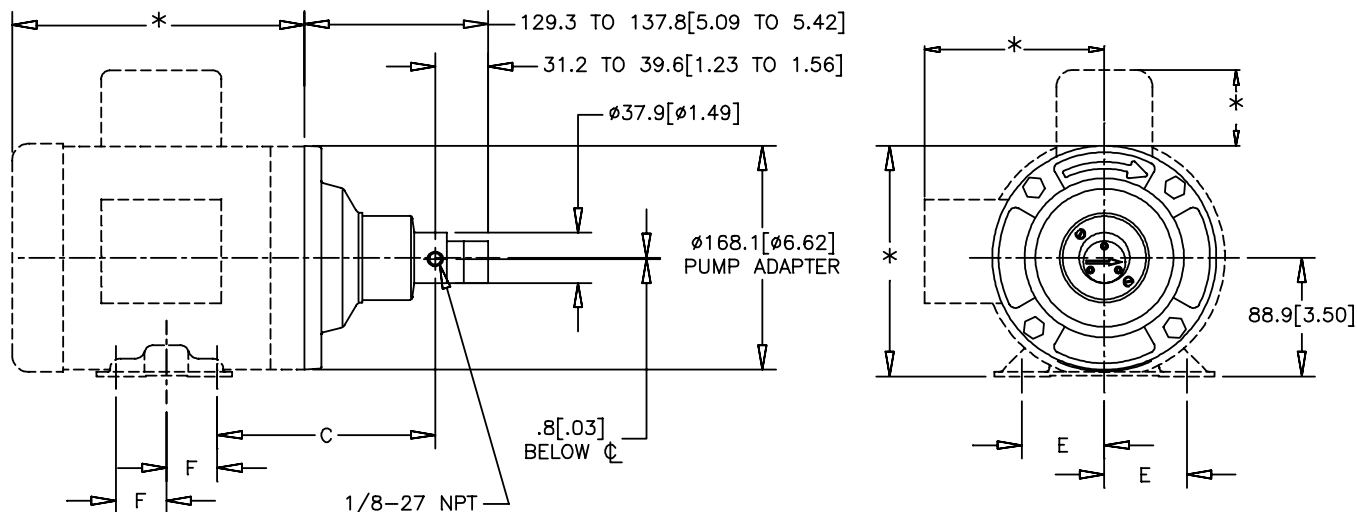
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<u>Order Code</u>								<u>Pump Construction</u>		
Base Code		Gear Set		Drive Mount		Options		Magnetic Drive Gear Pump		
G	J	-	N21			E		Cavity Style		
1	2	3	4	5	6	7	8	Two Helical, Shafted Gears/DP24		
Model				Wetted Materials				Sleeve Bushings/Gasket Seals (2)		
								O/C: Pump	PTFE Bevel or O-Ring Seal (1)	
								S/K: Service Kit	PPS Driven Magnet	

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

Dimensions



MOUNT	C mm [in]	E mm [in]	F mm [in]
NEMA 56C ^E	163.4 [6.43]	61.9 [2.44]	38.1 [1.50]
NEMA 143TC ^K	158.5 [6.24]	69.9 [2.75]	50.8 [2.00]
NEMA 145TC ^K	158.5 [6.24]	69.9 [2.75]	63.5 [2.50]

NOTES:

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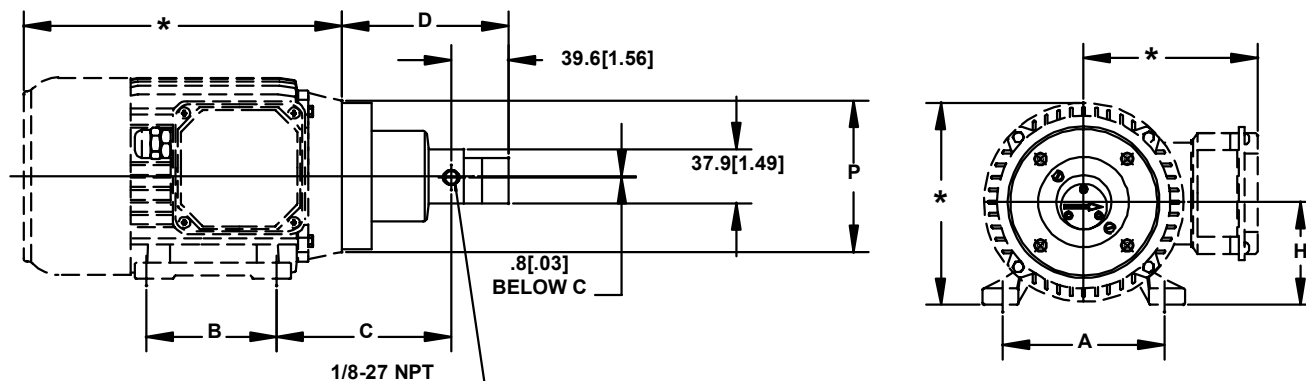
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<u>Order Code</u>								<u>Pump Construction</u>			
Base Code				Gear Set		Drive Mount		Options			Magnetic Drive Gear Pump
G	J	-	N21				6				Cavity Style
Model				Wetted Materials				O/C: Pump S/K: Service Kit			Two Helical, Shafted Gears/DP24 Sleeve Bushings/Gasket Seals (2) PTFE Bevel or O-Ring Seal (1) PPS Driven Magnet
1	2	3	4	5	6	7	8				

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

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]	99.2 [3.90]	94.5 [3.72] TO 102.8 [4.05]	56 [2.20]	80 [3.15]
4 IEC63B14B3	100 [3.94]	80 [3.15]	108.8 [4.28]	100.1 [3.94] TO 108.5 [4.27]	63 [2.48]	90 [3.54]
6 IEC71B14B3	112 [4.41]	90 [3.54]	120.8 [4.76]	107.1 [4.22] TO 115.5 [4.55]	71 [2.80]	105 [4.13]

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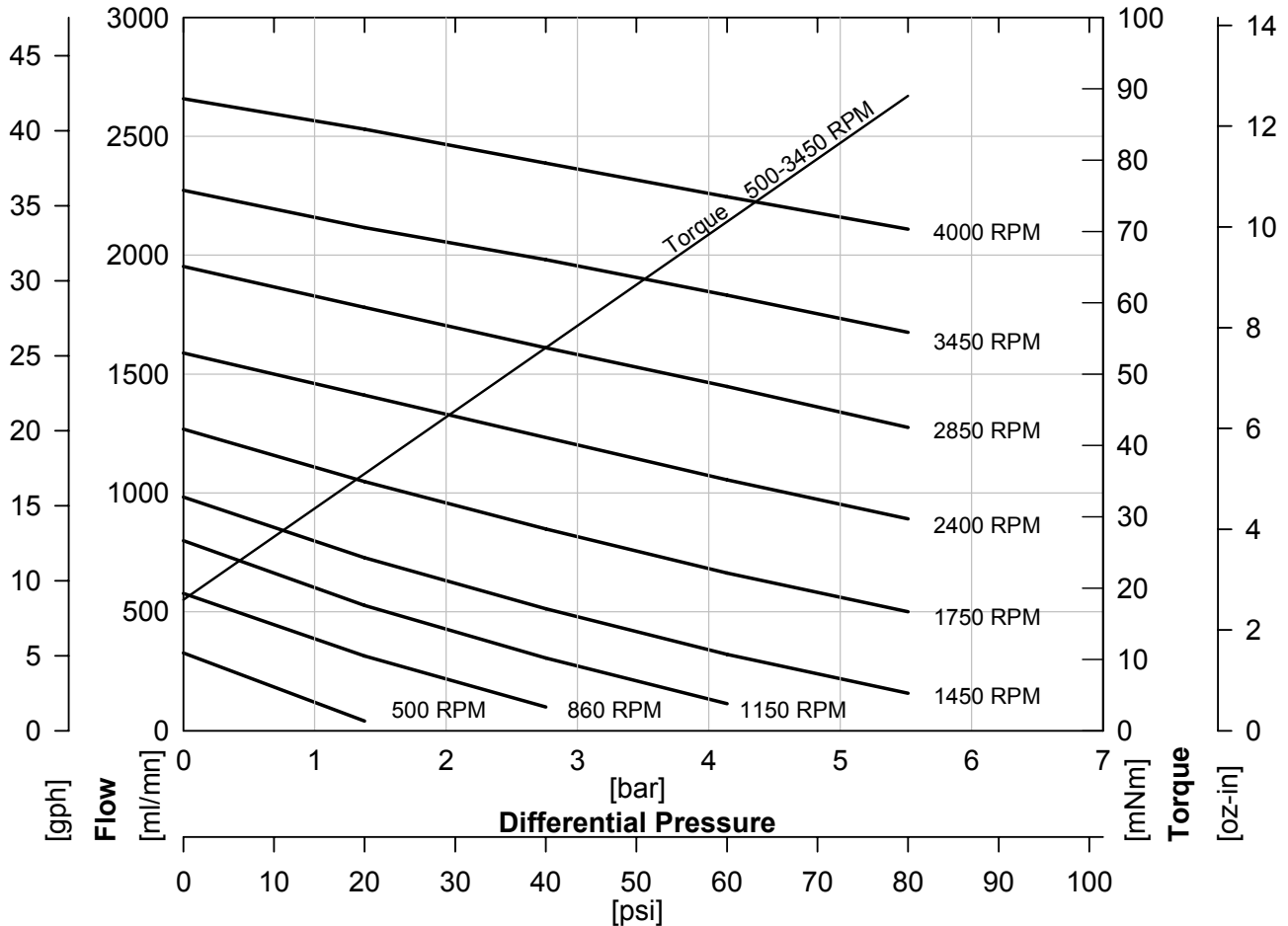
Order Code										Gear	Set	Drive	Mount-	Options	
Base Code															
G	J	-	N23												
1	2	3	4	5	6	7	8								
Model				Wetted Materials				O/C: Pump S/K: Service Kit							

Pump Construction
Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

Performance

GJ-N23

Water @ 1 CP



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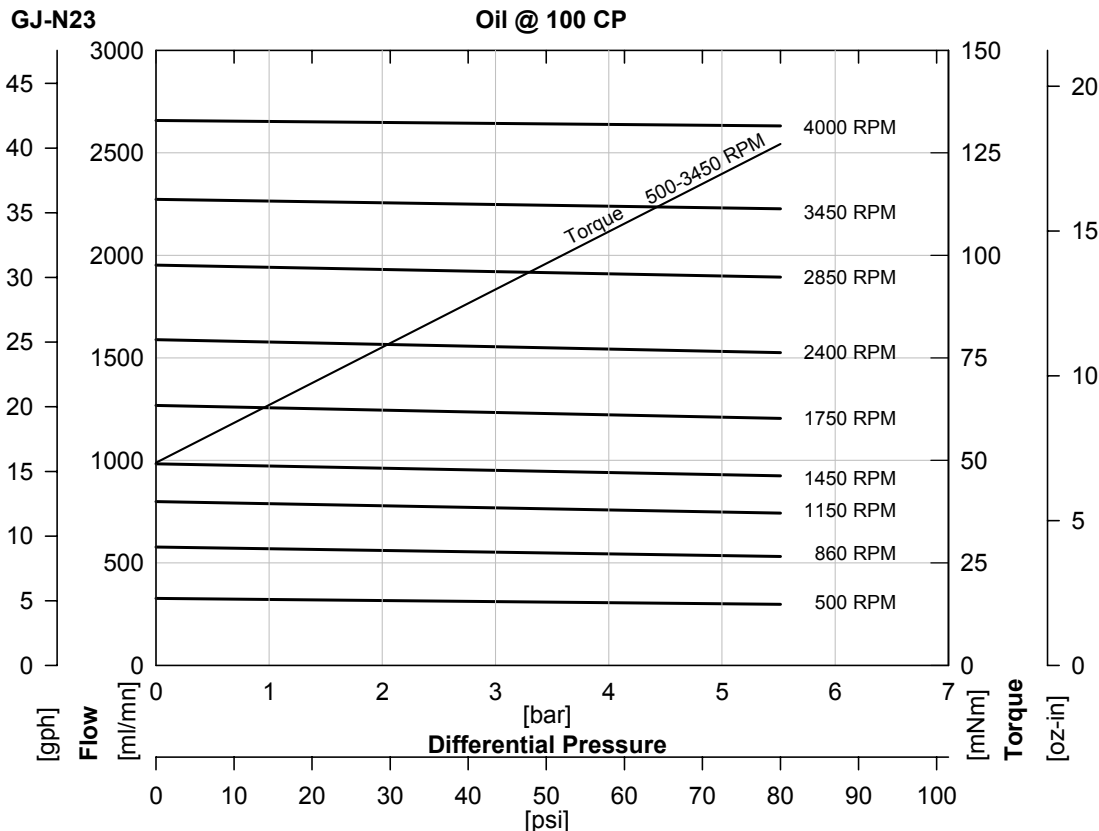
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Order Code				Gear				Drive Mount				Options				Pump Construction			
Base Code				Set				Mount											
G	J	-	N23													Magnetic Drive Gear Pump			
1	2	3	4	5	6	7	8									Cavity Style			
Model				Wetted Materials				O/C: Pump				Two Helical, Shafted Gears/DP24				Sleeve Bushings/Gasket Seals (2)			
								S/K: Service Kit				PTFE Bevel or O-Ring Seal (1)				PPS Driven Magnet			



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]		10000	3450	500
[Bar]	[psi]			
0.3	5	0.4	1	1.7
1.4	20	0.5	1	1.5
2.8	40	0.6	1	1.4
4.1	60	0.7	1	1.3
5.5	80	0.7	1	1.3

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
Ferrite	Ferrite*	113	16
Ferrite	Ferrite**	134	19
Ferrite	SmCo	254	36
SmCo	SmCo	636	90
Ferrite	NdFeB	304	43
SmCo	NdFeB	932	132

*-Indicates performance limit with standard A or B mount coupling

** -Indicates performance limit with IEC or NEMA industrial mount coupling

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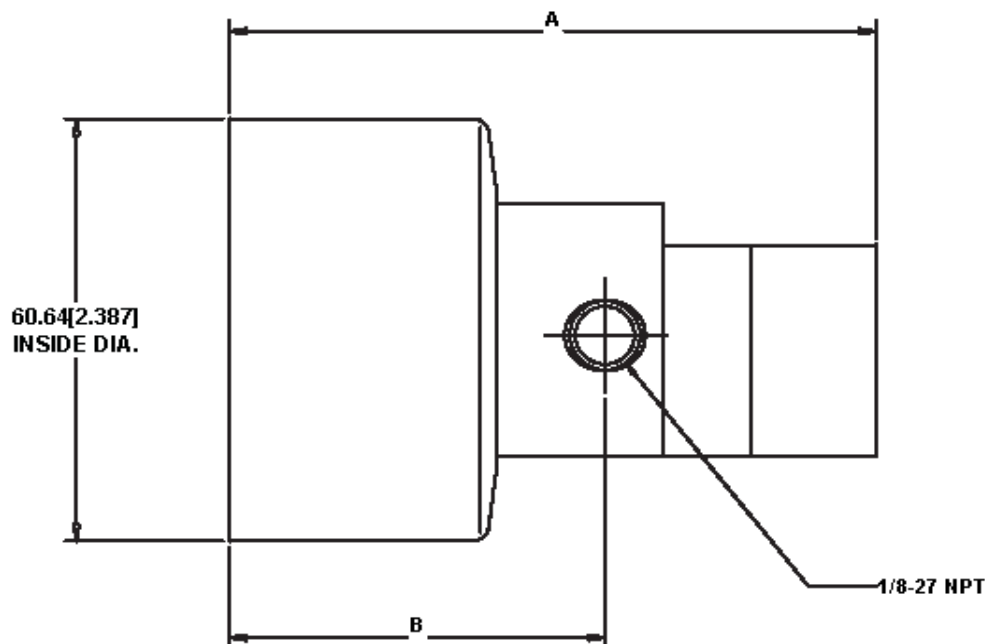
Order Code										Pump Construction
Base Code				Gear - Set		Drive Mount -		Options		
G	J	-	N23							
1	2	3	4	5	6	7	8			
Model				Wetted Materials				O/C: Pump S/K: Service Kit		
Magnetic Drive Gear Pump										
Cavity Style										
Two Helical, Shafted Gears/DP24										
Sleeve Bushings/Gasket Seals (2)										
PTFE Bevel or O-Ring Seal (1)										
PPS Driven Magnet										

<u>Order Code</u>								<u>Pump Construction</u>			
Base Code				Gear Set		Drive Mount		Options			Magnetic Drive Gear Pump
G	J	-	N23				A				Cavity Style
1	2	3	4	5	6	7	8				Two Helical, Shafted Gears/DP24
Model				Wetted Materials				O/C: Pump S/K: Service Kit			Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)											
PPS Driven Magnet											

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

Dimensions



GEAR SET	A (MAX) mm [in]	B mm [in]
N21	86.0 [3.39]	54.6 [2.15]
N23	90.4 [3.56]	54.6 [2.15]
N25	94.4 [3.72]	54.6 [2.15]
N27	99.2 [3.91]	54.6 [2.15]

NOTES:

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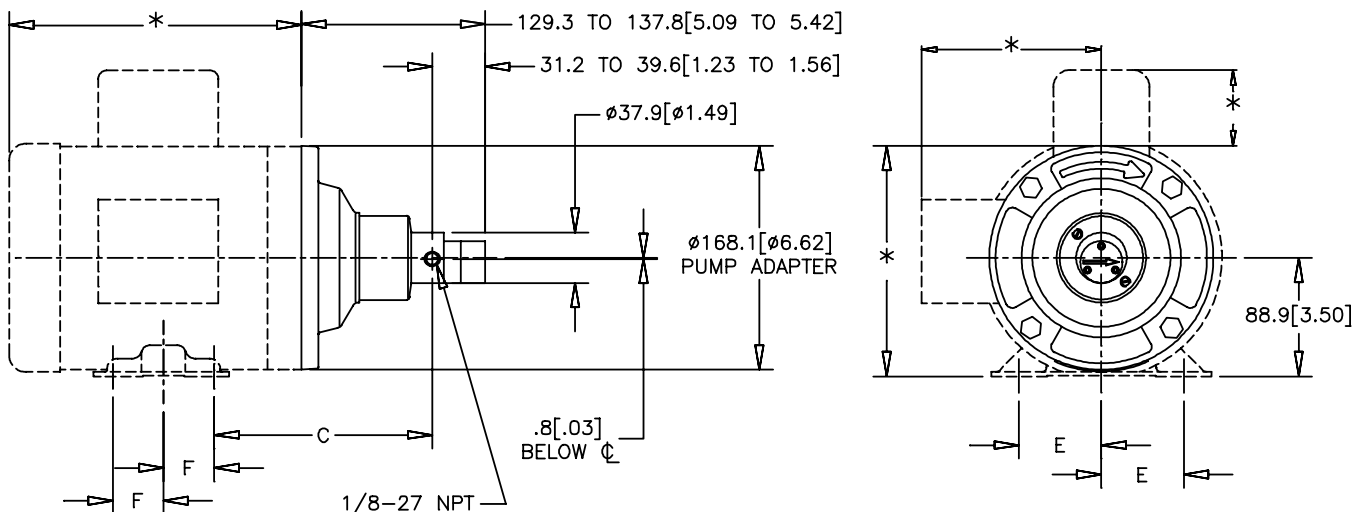
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<u>Order Code</u>								<u>Pump Construction</u>		
Base Code				Gear Set		Drive Mount		Options		
G	J	-	N23				E			
1	2	3	4	5	6	7	8			
Model				Wetted Materials				O/C: Pump S/K: Service Kit		
Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP24 Sleeve Bushings/Gasket Seals (2) PTFE Bevel or O-Ring Seal (1) PPS Driven Magnet										

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

Dimensions



MOUNT	C mm [in]	E mm [in]	F mm [in]
NEMA 56C ^E	163.4 [6.43]	61.9 [2.44]	38.1 [1.50]
NEMA 143TC ^K	158.5 [6.24]	69.9 [2.75]	50.8 [2.00]
NEMA 145TC ^K	158.5 [6.24]	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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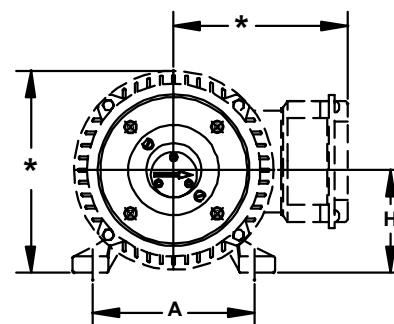
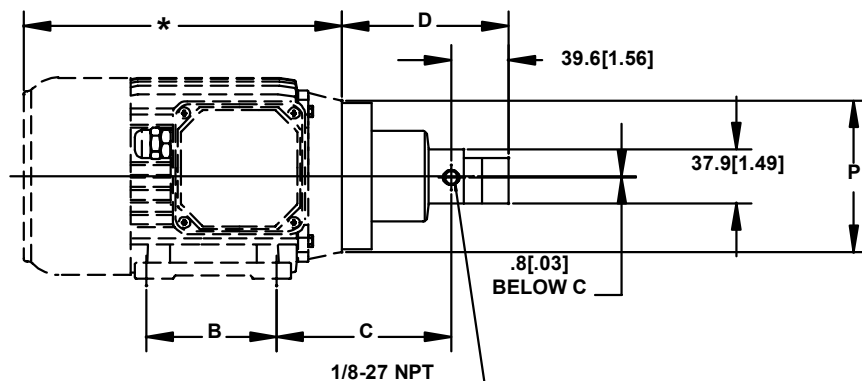
Order Code								Options		
Base Code		Gear Set		Drive Mount						
G	J	-	N23			6				
1	2	3	4	5	6	7	8			
Model			Wetted Materials					O/C: Pump S/K: Service Kit		

Pump Construction	
Magnetic Drive Gear Pump	
Cavity Style	
Two Helical, Shafted Gears/DP24	
Sleeve Bushings/Gasket Seals (2)	
PTFE Bevel or O-Ring Seal (1)	
PPS Driven Magnet	

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

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]	99.2 [3.90]	94.5 [3.72] TO 102.8 [4.05]	56 [2.20]	80 [3.15]
4 IEC63B14B3	100 [3.94]	80 [3.15]	108.8 [4.28]	100.1 [3.94] TO 108.5 [4.27]	63 [2.48]	90 [3.54]
6 IEC71B14B3	112 [4.41]	90 [3.54]	120.8 [4.76]	107.1 [4.22] TO 115.5 [4.55]	71 [2.80]	105 [4.13]

NOTES:

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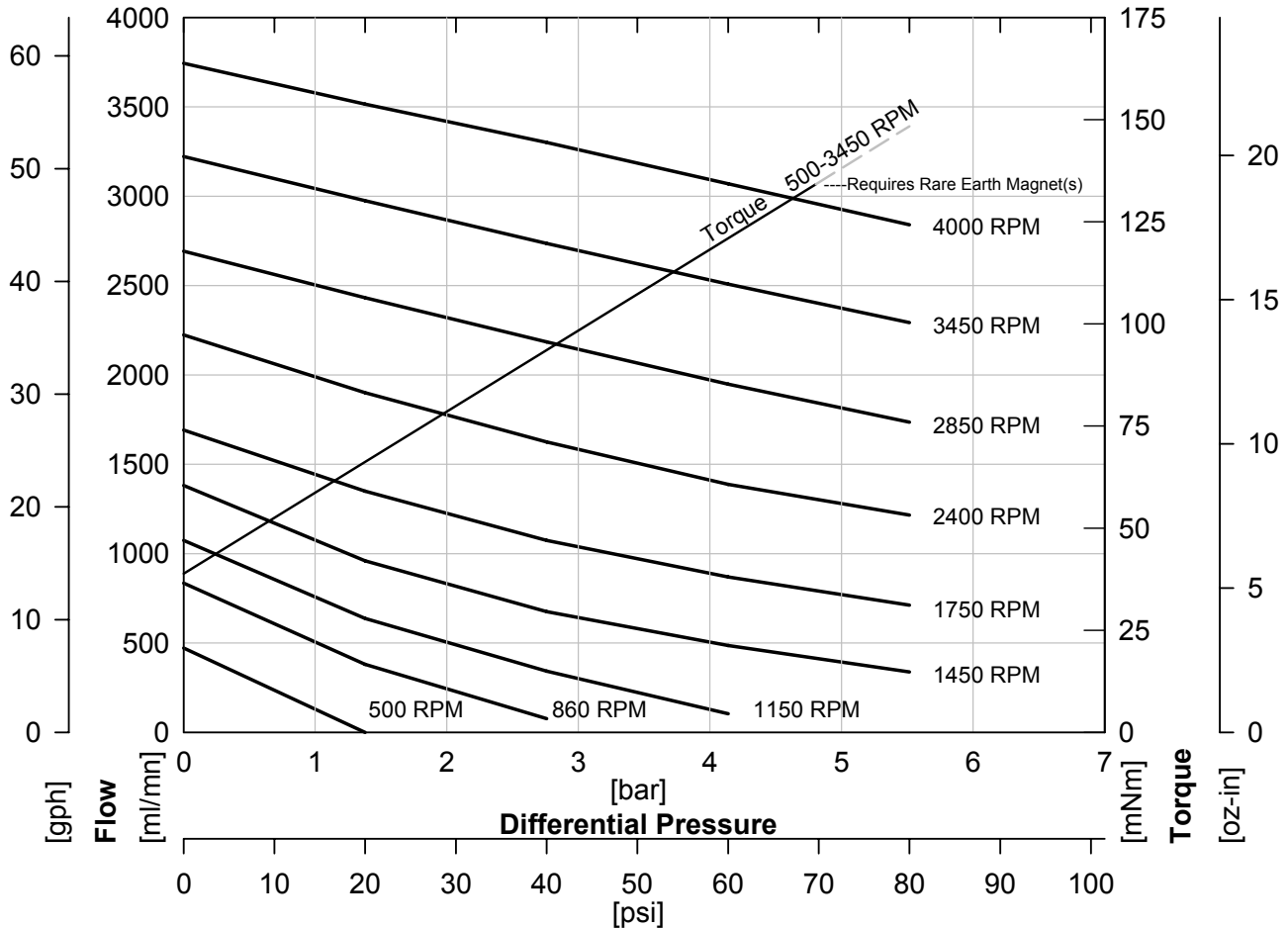
Order Code										Pump Construction	
Base Code				Gear - Set		Drive Mount -		Options			
G	J	-	N25						Magnetic Drive Gear Pump		
1	2	3	4	5	6	7	8		Cavity Style		
Model				Wetted Materials				O/C: Pump S/K: Service Kit			Two Helical, Shafted Gears/DP24
											Sleeve Bushings/Gasket Seals (2)
										PTFE Bevel or O-Ring Seal (1)	
										PPS Driven Magnet	

Pump Construction
 Magnetic Drive Gear Pump
 Cavity Style
 Two Helical, Shafted Gears/DP24
 Sleeve Bushings/Gasket Seals (2)
 PTFE Bevel or O-Ring Seal (1)
 PPS Driven Magnet

Performance

GJ-N25

Water @ 1 CP



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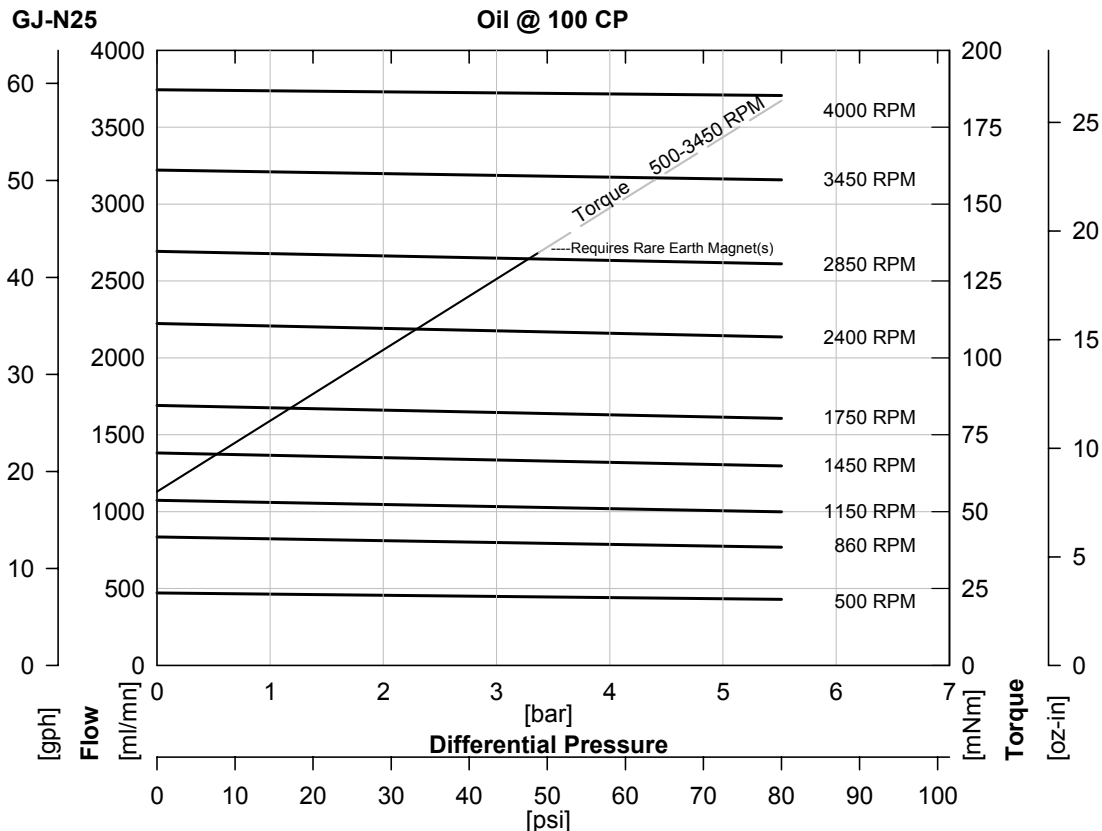
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Order Code				Gear				Drive Mount				Options				Pump Construction			
Base Code				Set				Mount											
G	J	-	N25																
1	2	3	4	5	6	7	8												
Model				Wetted Materials				O/C: Pump S/K: Service Kit											



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]		10000	3450	300
[Bar]	[psi]			
0.3	5	0.7	1	1.3
1.4	20	0.7	1	1.2
2.8	40	0.8	1	1.1
4.1	60	0.8	1	1.1
5.5	80	0.8	1	1.1

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
Ferrite	Ferrite*	113	16
Ferrite	Ferrite**	134	19
Ferrite	SmCo	254	36
SmCo	SmCo	636	90
Ferrite	NdFeB	304	43
SmCo	NdFeB	932	132

*-Indicates performance limit with standard A or B mount coupling

**Indicates performance limit with IEC or NEMA industrial mount coupling

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<u>Order Code</u>								<u>Pump Construction</u>	
Base Code				Options					
Gear - Set				Drive Mount -					
G	J	-	N25						
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/DP24									
Sleeve Bushings/Gasket Seals (2)									
PTFE Bevel or O-Ring Seal (1)									
PPS Driven Magnet									

Pump Construction
Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

Specifications

	SI	US
Displacement	0.91 ml/rev	0.24 gal/1000*rev
Max Flow (4 Pole Speed)	1320 ml/mn 1450 RPM (50Hz)	26 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	2600 ml/mn 2850 RPM (50Hz)	50 gal/hr 3450 RPM (60Hz)
Max Differential Pressure	1 5.6 Bar	80 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)	0.45 kg	1.0 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 (G drive to 5.4 bar)	Preset to 45 psi (G drive to 80 psi)

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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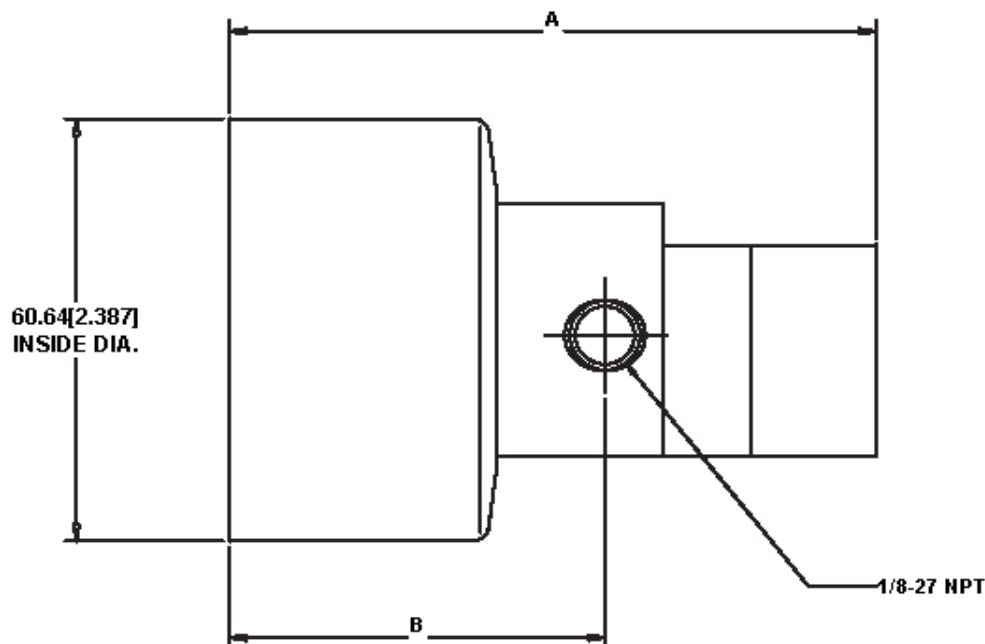
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<u>Order Code</u>								<u>Pump Construction</u>		
Base Code		Gear Set		Drive Mount		Options		Magnetic Drive Gear Pump		
G	J	-	N25			A		Cavity Style		
1	2	3	4	5	6	7	8	Two Helical, Shafted Gears/DP24		
Model				Wetted Materials			Sleeve Bushings/Gasket Seals (2)			
								PTFE Bevel or O-Ring Seal (1)		
								PPS Driven Magnet		

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

Dimensions



GEAR SET	A (MAX) mm [in]	B mm [in]
N21	86.0 [3.39]	54.6 [2.15]
N23	90.4 [3.56]	54.6 [2.15]
N25	94.4 [3.72]	54.6 [2.15]
N27	99.2 [3.91]	54.6 [2.15]

NOTES:

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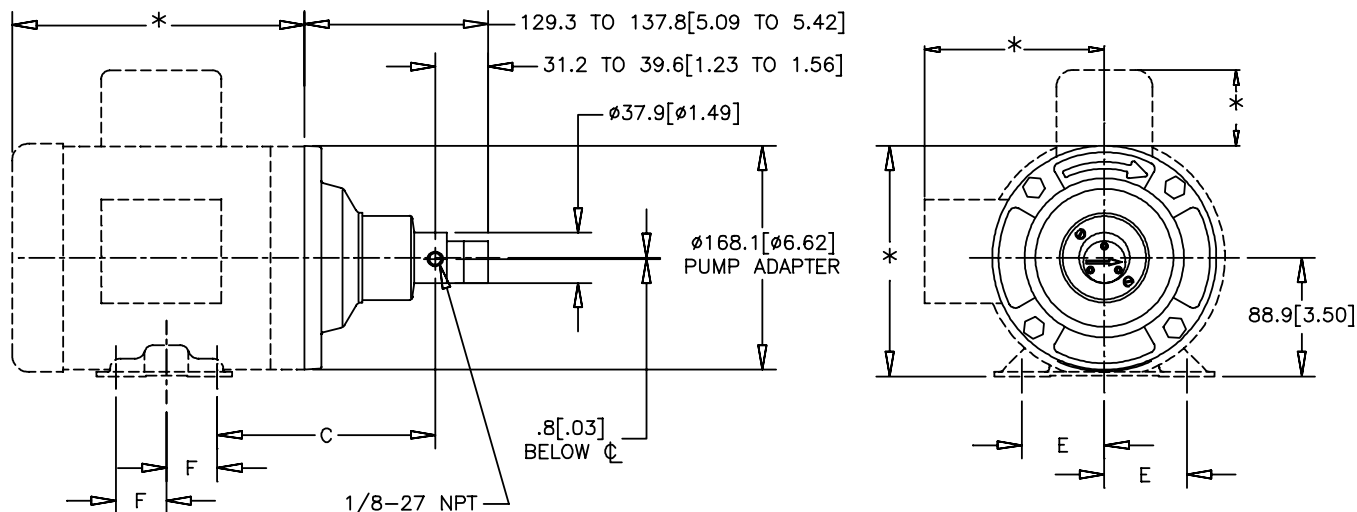
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<u>Order Code</u>								<u>Pump Construction</u>			
Base Code				Gear Set		Drive Mount		Options			Magnetic Drive Gear Pump
G	J	-	N25				E				Cavity Style
1	2	3	4	5	6	7	8				Two Helical, Shafted Gears/DP24
Model				Wetted Materials				O/C: Pump S/K: Service Kit			Sleeve Bushings/Gasket Seals (2)
										PTFE Bevel or O-Ring Seal (1)	
										PPS Driven Magnet	

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

Dimensions



MOUNT	C mm [in]	E mm [in]	F mm [in]
NEMA 56C ^E	163.4 [6.43]	61.9 [2.44]	38.1 [1.50]
NEMA 143TC ^K	158.5 [6.24]	69.9 [2.75]	50.8 [2.00]
NEMA 145TC ^K	158.5 [6.24]	69.9 [2.75]	63.5 [2.50]

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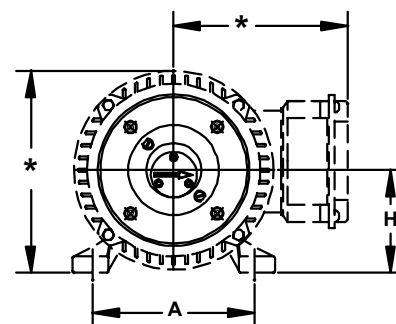
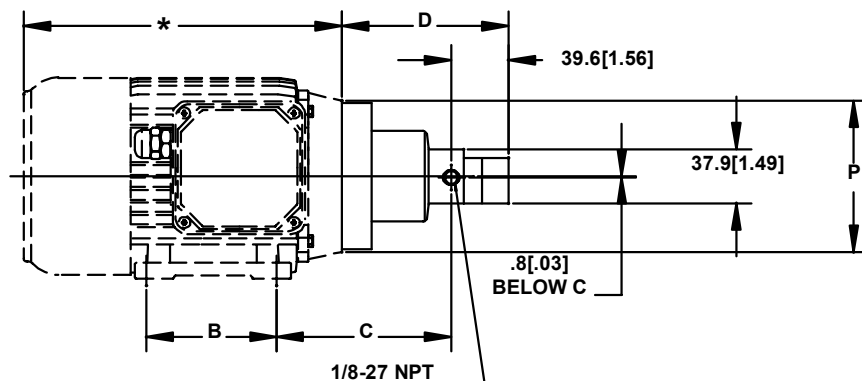
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<u>Order Code</u>								<u>Pump Construction</u>		
Base Code			Gear Set		Drive Mount			Magnetic Drive Gear Pump		
								Cavity Style		
G	J	-	N25				6	Two Helical, Shafted Gears/DP24		
1	2	3	4	5	6	7	8	Sleeve Bushings/Gasket Seals (2)		
Model			Wetted Materials					PTFE Bevel or O-Ring Seal (1)		
								PPS Driven Magnet		
								O/C: Pump S/K: Service Kit		

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

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]	99.2 [3.90]	94.5 [3.72] TO 102.8 [4.05]	56 [2.20]	80 [3.15]
4 IEC63B14B3	100 [3.94]	80 [3.15]	108.8 [4.28]	100.1 [3.94] TO 108.5 [4.27]	63 [2.48]	90 [3.54]
6 IEC71B14B3	112 [4.41]	90 [3.54]	120.8 [4.76]	107.1 [4.22] TO 115.5 [4.55]	71 [2.80]	105 [4.13]

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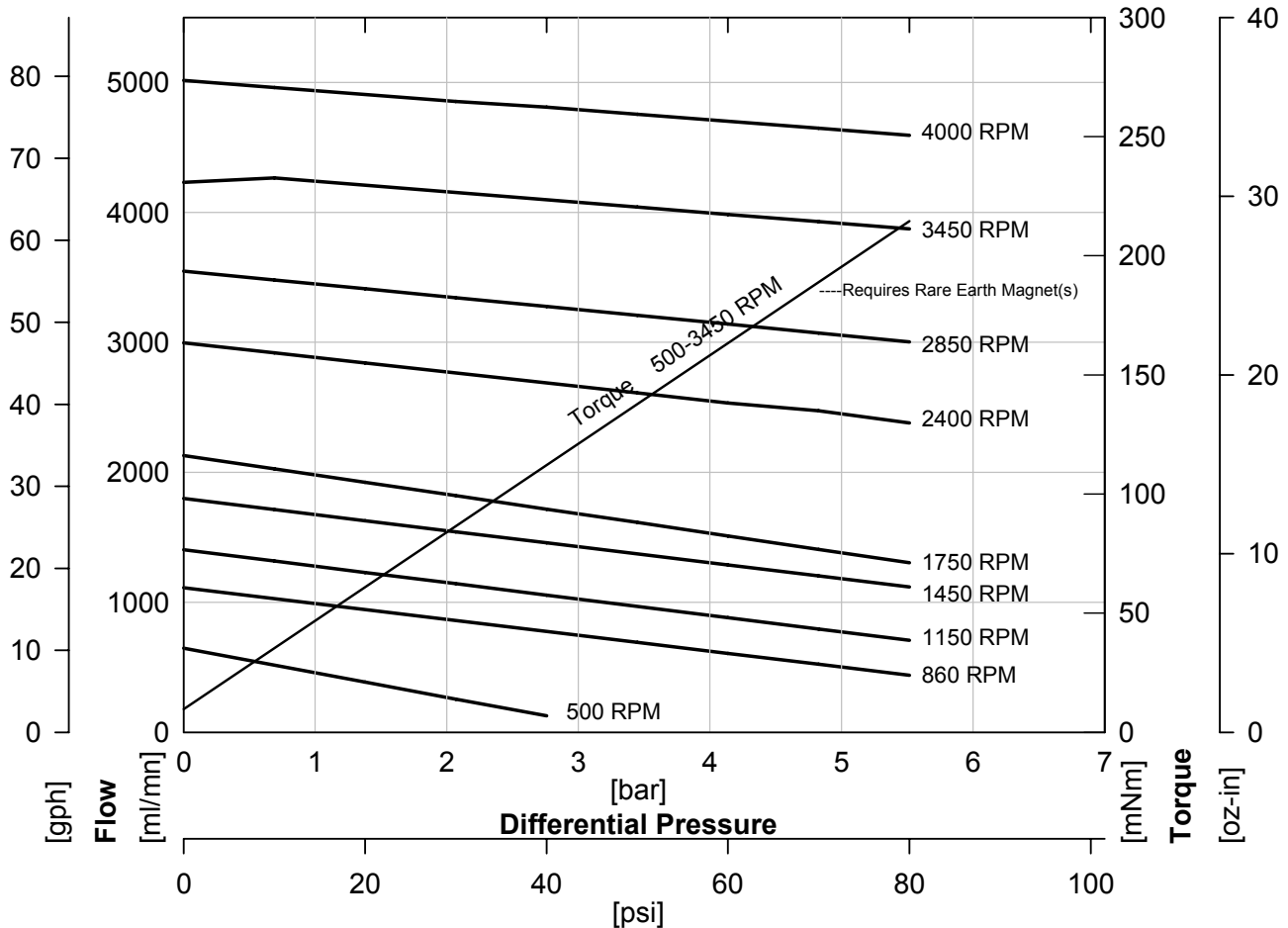
Order Code										Gear	Drive	Options	Pump Construction Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP24 Sleeve Bushings/Gasket Seals (2) PTFE Bevel or O-Ring Seal (1) PPS Driven Magnet	
Base Code				Set	Mount									
G	J	-	N27											
1	2	3	4	5	6		7	8						
Model				Wetted Materials				O/C: Pump S/K: Service Kit						



Performance

GJ-N27

Water @ 1 CP



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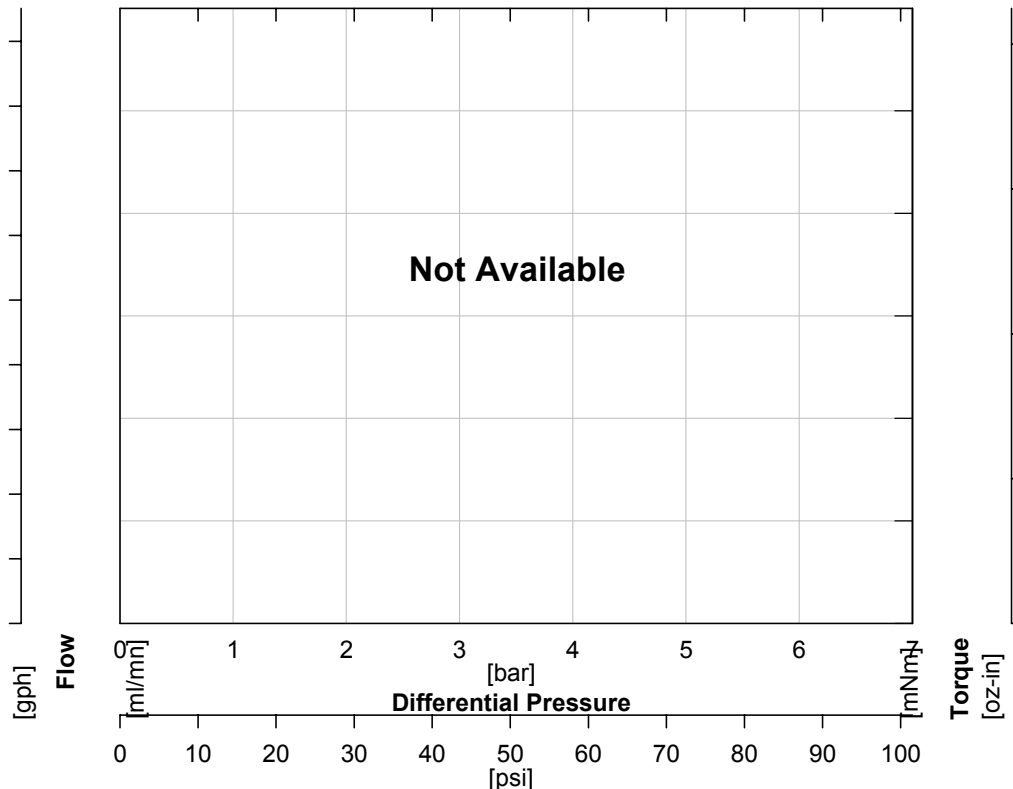
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Order Code										Pump Construction									
Base Code				Gear - Set				Drive Mount -				Options							
G	J	-	N27																
1	2	3	4	5	6	7	8												
Model				Wetted Materials				O/C: Pump S/K: Service Kit											

Performance-High Viscosity

GJ-N27

Oil @ 100 CP



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

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

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]		10000	3450	200
[Bar]	[psi]			
0.3	5	0.4	1	1.1
1.4	20	0.6	1	1.1
2.8	40	0.8	1	1.1
4.1	60	0.8	1	1.1
5.5	80	0.9	1	1.1
6.2	90	0.9	1	1.1

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
Ferrite	Ferrite	134	19
Ferrite	NdFeB	304	43
NdFeB	Ferrite	290	41
NdFeB	NdFeB	636	90

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Order Code										Pump Construction
Base Code				Gear - Set		Drive Mount -		Options		
G	J	-	N27							
1	2	3	4	5	6	7	8			
Model				Wetted Materials				O/C: Pump S/K: Service Kit		
Two Helical, Shafted Gears/DP24 Sleeve Bushings/Gasket Seals (2) PTFE Bevel or O-Ring Seal (1) PPS Driven Magnet										

Pump Construction
Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

Specifications

	SI	US
Displacement	1.23 ml/rev	0.32 gal/1000*rev
Max Flow (4 Pole Speed)	1630 ml/mn 1450 RPM (50Hz)	32 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	3250 ml/mn 2850 RPM (50Hz)	1.0 gal/mn 3450 RPM (60Hz)
Max Differential Pressure	8.7 Bar	125 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	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)	0.45 kg	1.0 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)	Neodymium (NdFeB)	Neodymium (NdFeB)
Optional Internal Bypass	Yes	Yes

Notes

4 See Performance-High Viscosity for viscosity limits.

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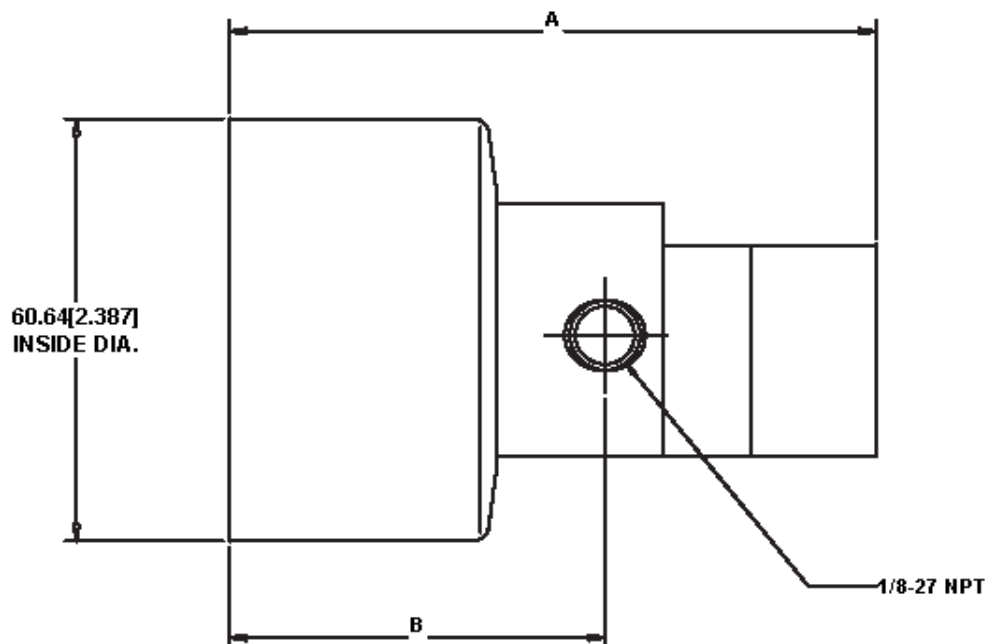
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<u>Order Code</u>								<u>Pump Construction</u>		
Base Code		Gear Set		Drive Mount		Options		Magnetic Drive Gear Pump		
G	J	-	N27			A		Cavity Style		
1	2	3	4	5	6	7	8	Two Helical, Shafted Gears/DP24		
Model				Wetted Materials				Sleeve Bushings/Gasket Seals (2)		
								O/C: Pump S/K: Service Kit	PTFE Bevel or O-Ring Seal (1)	
									PPS Driven Magnet	

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

Dimensions



GEAR SET	A (MAX) mm [in]	B mm [in]
N21	86.0 [3.39]	54.6 [2.15]
N23	90.4 [3.56]	54.6 [2.15]
N25	94.4 [3.72]	54.6 [2.15]
N27	99.2 [3.91]	54.6 [2.15]

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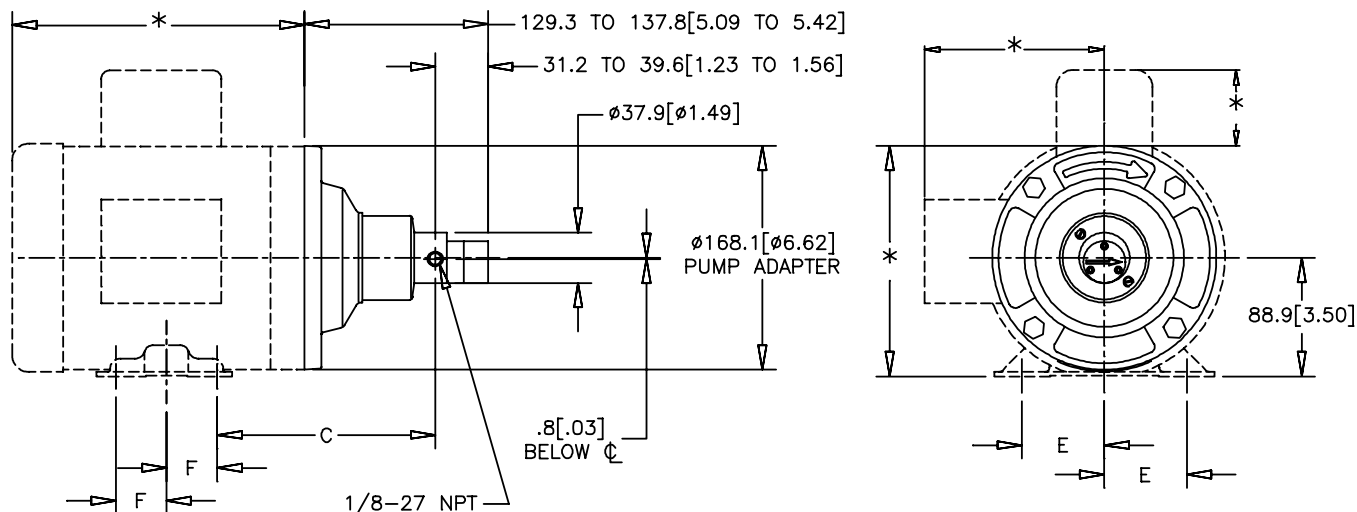
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Mod. 01 del ./././24

<u>Order Code</u>								<u>Pump Construction</u>			
Base Code				Gear Set		Drive Mount		Options			Magnetic Drive Gear Pump
G	J	-	N27				E				Cavity Style
1	2	3	4	5	6	7	8				Two Helical, Shafted Gears/DP24
Model				Wetted Materials				O/C: Pump S/K: Service Kit			Sleeve Bushings/Gasket Seals (2)
										PTFE Bevel or O-Ring Seal (1)	
										PPS Driven Magnet	

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

Dimensions



MOUNT	C mm [in]	E mm [in]	F mm [in]
NEMA 56C	163.4 [6.43]	61.9 [2.44]	38.1 [1.50]
NEMA 143TC	158.5 [6.24]	69.9 [2.75]	50.8 [2.00]
NEMA 145TC	158.5 [6.24]	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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Tel. +1 360-253-2008

www.micropump.com
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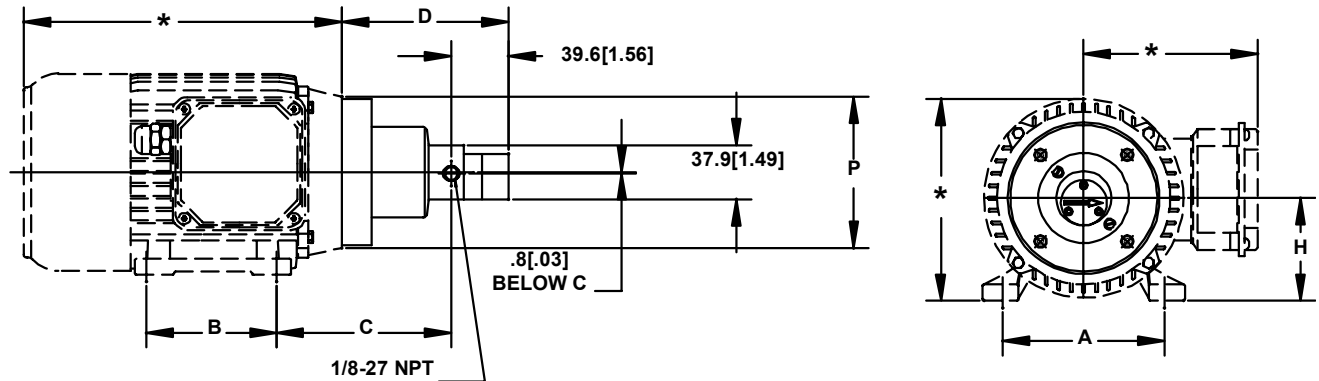
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<u>Order Code</u>								<u>Pump Construction</u>		
Base Code			Gear Set		Drive Mount					
G	J	-	N27				6			
1	2	3	4	5	6	7	8			
Model			Wetted Materials					O/C: Pump S/K: Service Kit		
								Magnetic Drive Gear Pump		
								Cavity Style		
								Two Helical, Shafted Gears/DP24		
								Sleeve Bushings/Gasket Seals (2)		
								PTFE Bevel or O-Ring Seal (1)		
								PPS Driven Magnet		

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP24
Sleeve Bushings/Gasket Seals (2)
PTFE Bevel or O-Ring Seal (1)
PPS Driven Magnet

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]	99.2 [3.90]	94.5 [3.72] TO 102.8 [4.05]	56 [2.20]	80 [3.15]
4 IEC63B14B3	100 [3.94]	80 [3.15]	108.8 [4.28]	100.1 [3.94] TO 108.5 [4.27]	63 [2.48]	90 [3.54]
6 IEC71B14B3	112 [4.41]	90 [3.54]	120.8 [4.76]	107.1 [4.22] TO 115.5 [4.55]	71 [2.80]	105 [4.13]

NOTES:

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