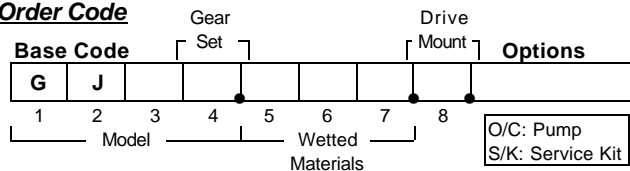



Order Code 				Pump Construction Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP24 Sleeve Bushings Gasket Seals (Qty 2) PTFE Ravel or O-Ring Seal (Qty 1)	
--	--	--	--	---	---

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

1	Code	Product Type	Specifications	Notes
	G	Gear Pump		
2	Product Series		Max System Pressure (MAWP) Ports	
	J	Series 120	21 Bar (300 psi) 1/8-27 (F) NPT Side Ports	
3	Design Modifier			
	-	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*re) 5.6 Bar (80 psi) Ferrite	
	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	
5	Gear Material		Max Differential Pressure Temp Range	
	F	PTFE	3.5 Bar (50 psi) -46/99°C (-50/210°F)	
	P	PPS (carbon fiber/ptfe)	5.2 Bar (75 psi) -46/121°C (-50/250°F)	1
	J	PEEK (carbon fiber/ptfe)	5.6 Bar (80 psi) -46/121°C (-50/250°F)	1
6	Static Seals		Temp Range	
	F1	PTFE Gasket (.004) 5369	-46/54°C (-50/130°F)	2
	F2	PTFE Gasket (.005) 3613	43/77°C (110/170°F)	2
	F3	PTFE Gasket (.006) 4188	71/99°C (160/210°F)	2
7	Base Materials			
	S	SS316		
	D	Alloy 20		
	T	Titanium		
	C	Hast C-276®		
	B	Hast B-2®		
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)	
	C	MP Step Cup (2 oz-in)	21 Bar (300 psi) 0.34 kg (0.75 lbs)	3
	G	MP Integral Series® (SS316)	21 Bar(300 psi) SS316 0.45 kg (1.0 lbs)	4
	E	NEMA 56C	21 Bar (300 psi) 1.2 kg (2.6 lbs)	5
	K	NEMA 143/145TC	21 Bar (300 psi) 1.2 kg (2.6 lbs)	5
	2	IEC 56-B14	21 Bar (300 psi) 1.2 kg (2.6 lbs)	6
	3	IEC 63-B5	21 Bar (300 psi) 1.2 kg (2.6 lbs)	5
	4	IEC 63-B14	21 Bar (300 psi) 1.2 kg (2.6 lbs)	5
	5	IEC 71-B5	21 Bar (300 psi) 1.2 kg (2.6 lbs)	5
	6	IEC 71-B14	21 Bar (300 psi) 1.2 kg (2.6 lbs)	5

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



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

Bypass (PC11)		<i>Optional Internal Bypass</i>		
B1	Internal Bypass (SS316)	Preset to 3 Bar (G drive to 5.4)		7
Driven Magnet (PC12)				
M1	SmCo Driven (Segments)			8
Driving Magnet (PC13)				
N1	SmCo Driving (Segments)			8
N3	NdFeB Driving (Ring)			8
Bushings (PC15)				
D1	Carbon Bushing(s)			8
Ports/Fittings (PC17)		<i>Ports</i>		
F5	Tri-Clamp (TC25) Fittings	1/2" 316L SS Ferrule		
Port Orientation (PC18)		<i>Ports</i>		
Q1	Deck Ports	1/8-27 (F) NPT Deck Ports		

Notes

- 1 Select appropriate gaskets for higher temperatures (PC06).
- 2 Application details required for temperatures > 54C (130F) before order entry.
- 3 Available only in O/C GJ-N21.FFS.C (no bypass).
- 4 Integral Series® SS316 only. Consult factory for other materials.
- 5 "A" mount aluminum adapter, packaged separately. Includes magnet hub.
- 6 "A" mount plastic adapter, packaged separately. Includes magnet hub.
- 7 Available in SS316 only.
- 8 Application details required before order entry.

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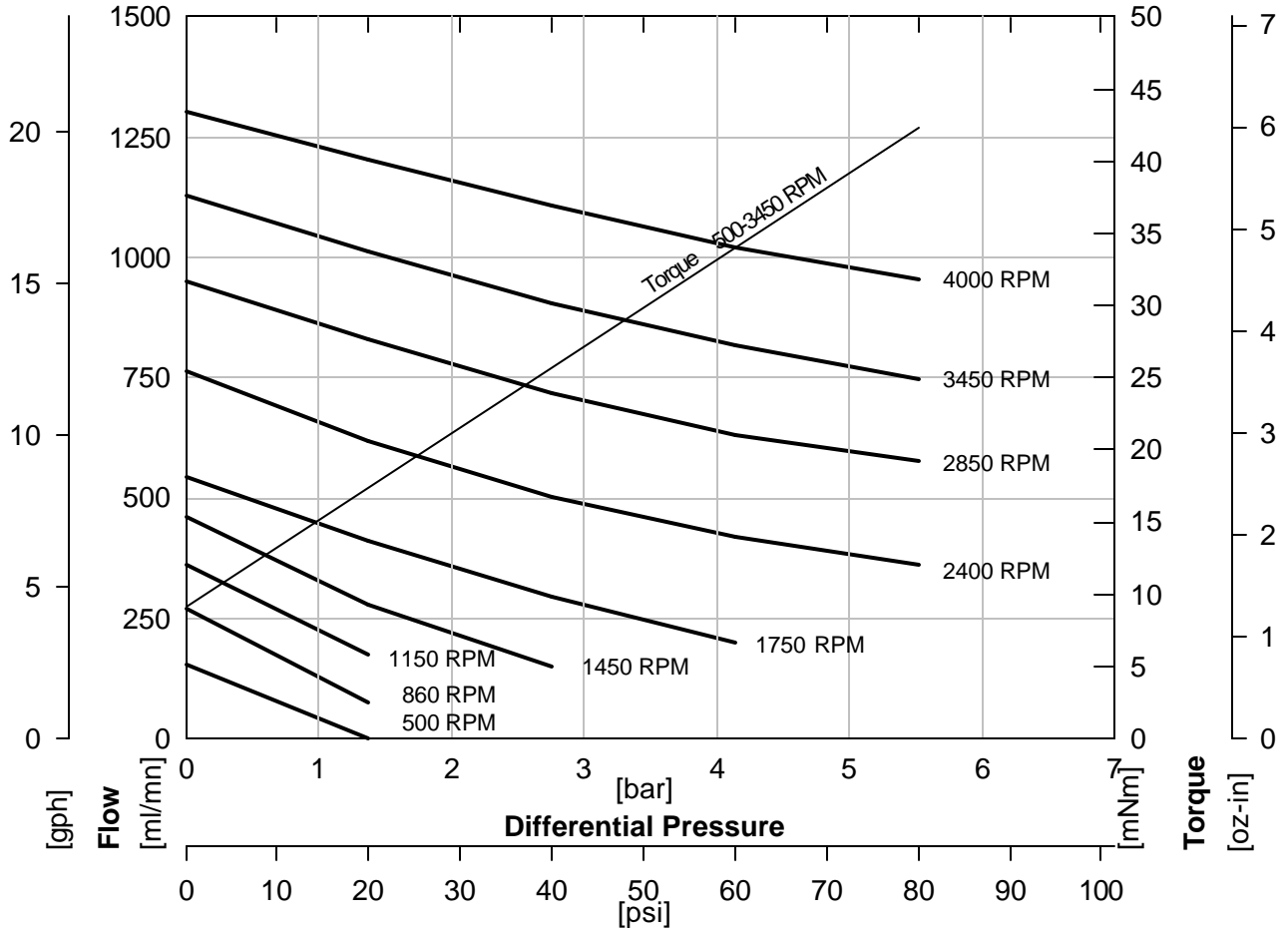
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Order Code								Pump Construction	
Base Code		Gear Set		Drive Mount		Options		 <p>Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP24 Sleeve Bushings Gasket Seals (Qty 2) PTFE Bevel or O-Ring Seal (Qty 1)</p>	
G	J	-	N21						
1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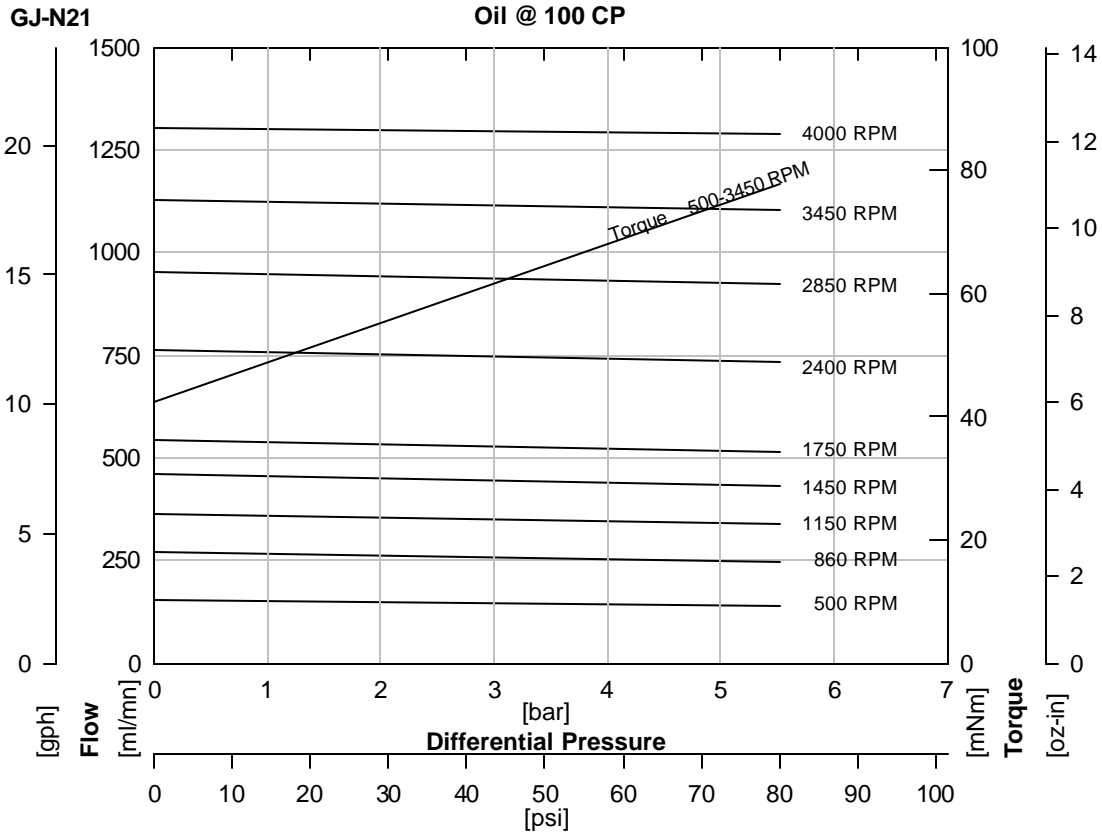
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Order Code				Pump Construction				
Base Code		Gear Set		Drive Mount		Options		
G	J	-	N21	•	•	•	•	
1	2	3	4	5	6	7	8	O/C: Pump S/K: Service Kit
Model				Wetted Materials				

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

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

Pump Construction

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



Specification

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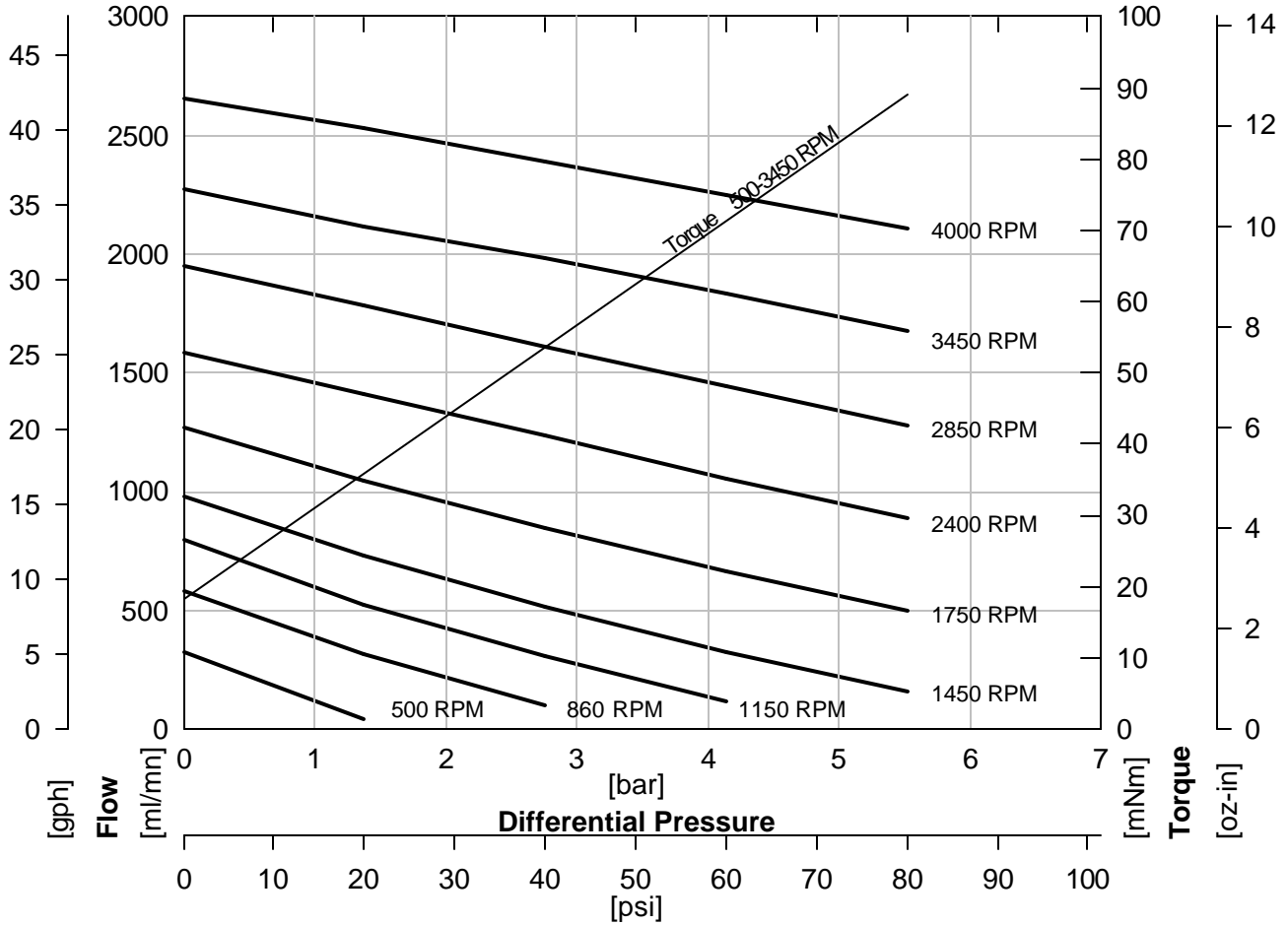
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Base Code		Gear Set		Drive Mount		Options	
G	J	-	N23				
1	2	3	4	5	6	7	8
Model			Wetted Materials				O/C: Pump S/K: Service Kit
Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP24 Sleeve Bushings Gasket Seals (Qty 2) PTFE Bevel or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



Performance

GJ-N23

Water @ 1 CP



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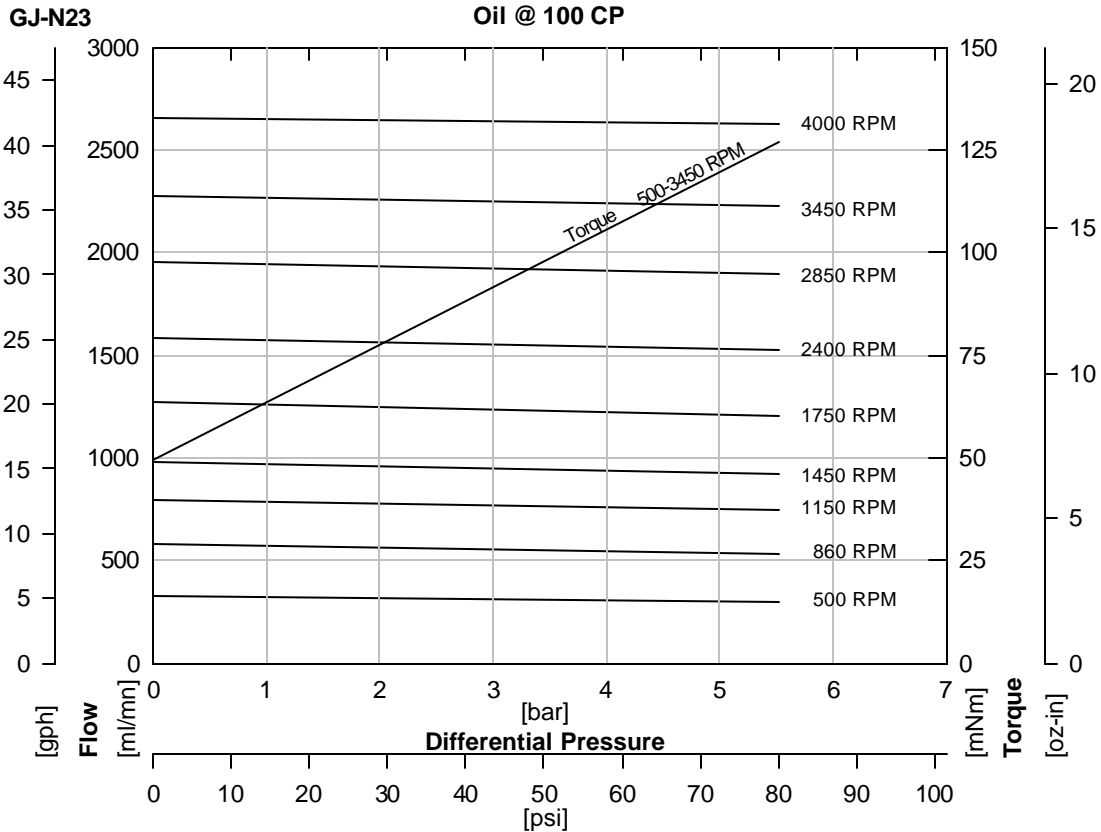
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	J	-	N23	•	•	•	•
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	
Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP24 Sleeve Bushings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

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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

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



Specification

	SI	US
Displacement	0.64 ml/rev	0.17 gal/1000*rev
Max Flow (4 Pole Speed)	930 ml/mn 1450 RPM (50Hz)	18 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	1830 ml/mn 2850 RPM (50Hz)	36 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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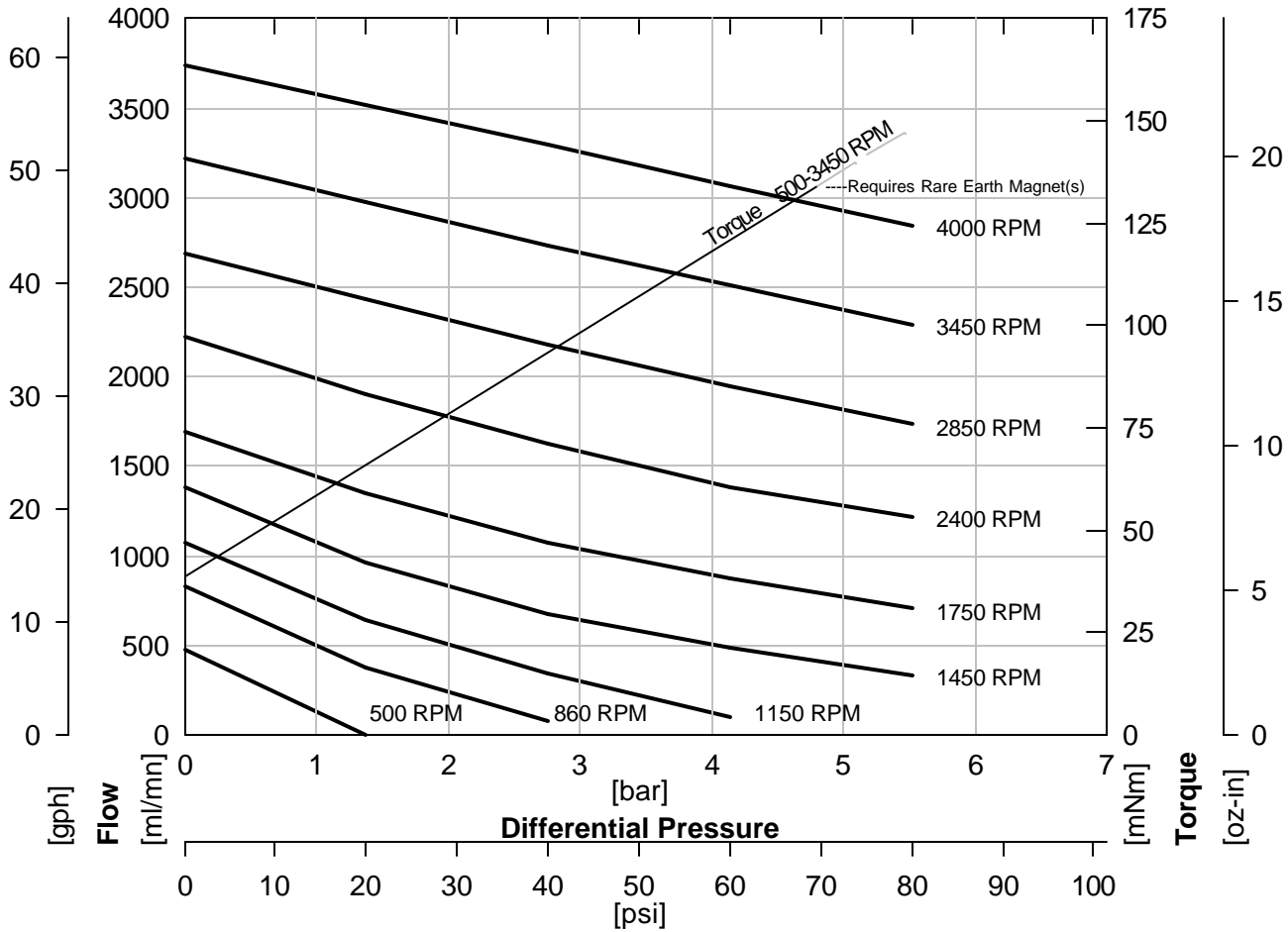
Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	J	-	N25				
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	
Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP24 Sleeve Bushings Gasket Seals (Qty 2) PTFE Bevel or O-Ring Seal (Qty 1)							



Performance

GJ-N25

Water @ 1 CP



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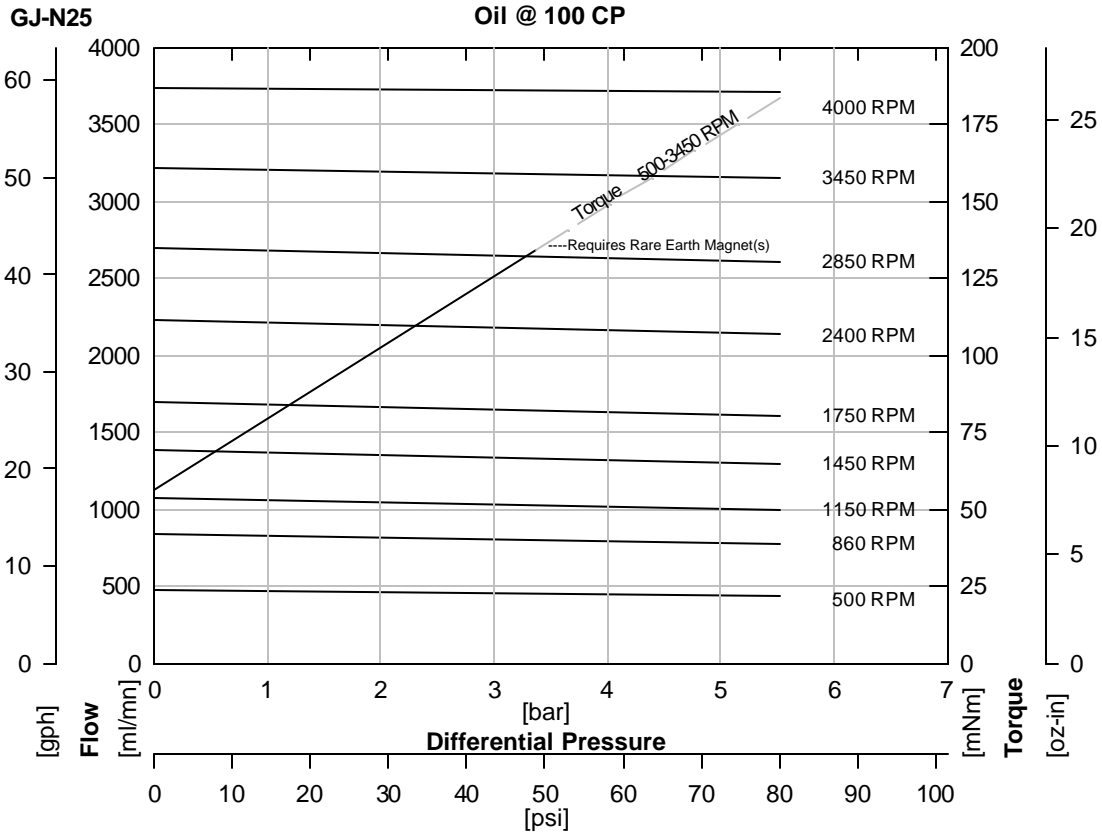
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Order Code				Pump Construction				
Base Code		Gear Set		Drive Mount		Options		
G	J	-	N25	5	6	7	8	
1 2 3 4 5 6 7 8		Wetted Materials						
								O/C: Pump S/K: Service Kit

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

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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	J	-	N25	5	7	8	
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 (Qty 2)				PTFE Bevel or O-Ring Seal (Qty 1)			



Specification

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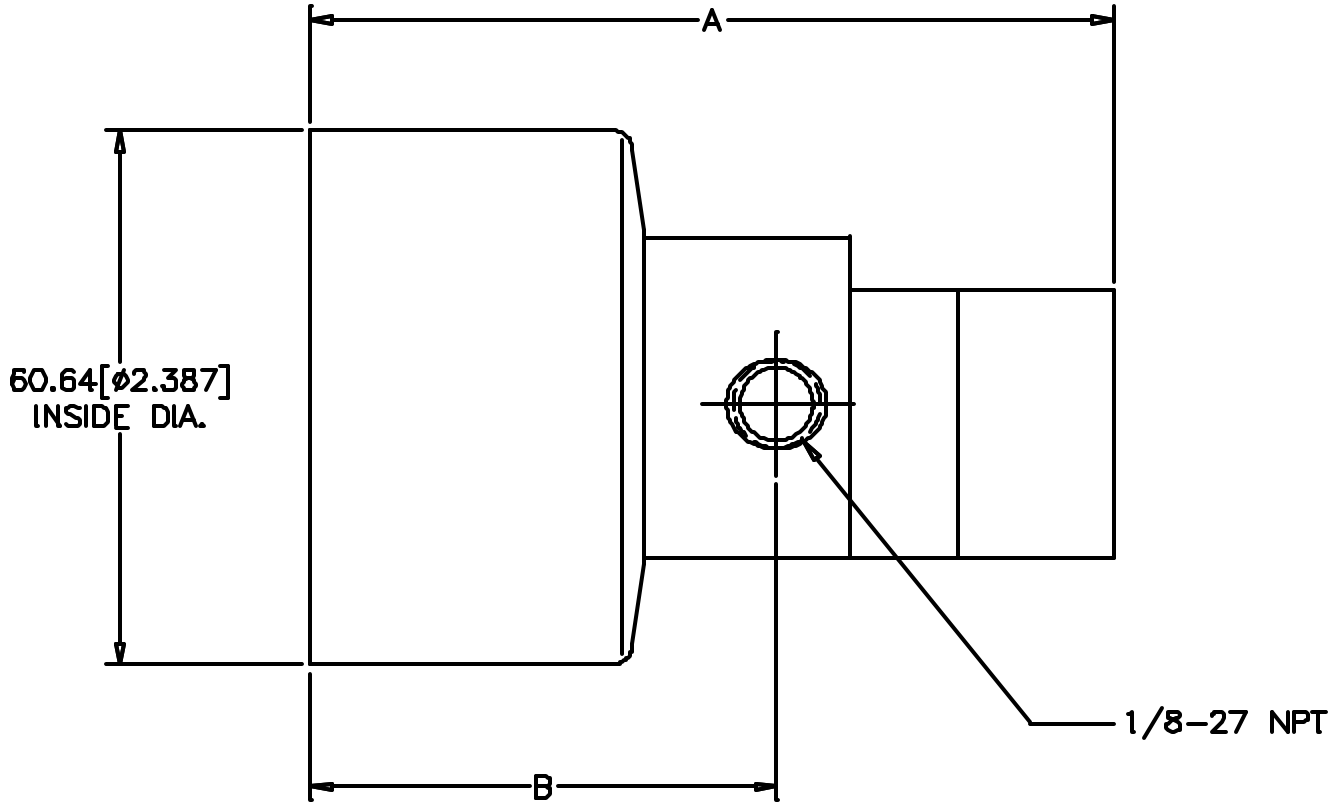
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Order Code				Pump Construction			
Base Code		Gear Set		Drive Mount		Options	
G	J	-	N21	A			
1	2	3	4	5	6	7	8
Model			Wetted Materials			O/C: Pump S/K: Service Kit	
				Magnetic Drive Gear Pump			
				Cavity Style			
				Two Helical, Shafted Gears/DP24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



Dimension



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]

NOTES:

1. ALL DIMENSIONS ARE NOMINAL


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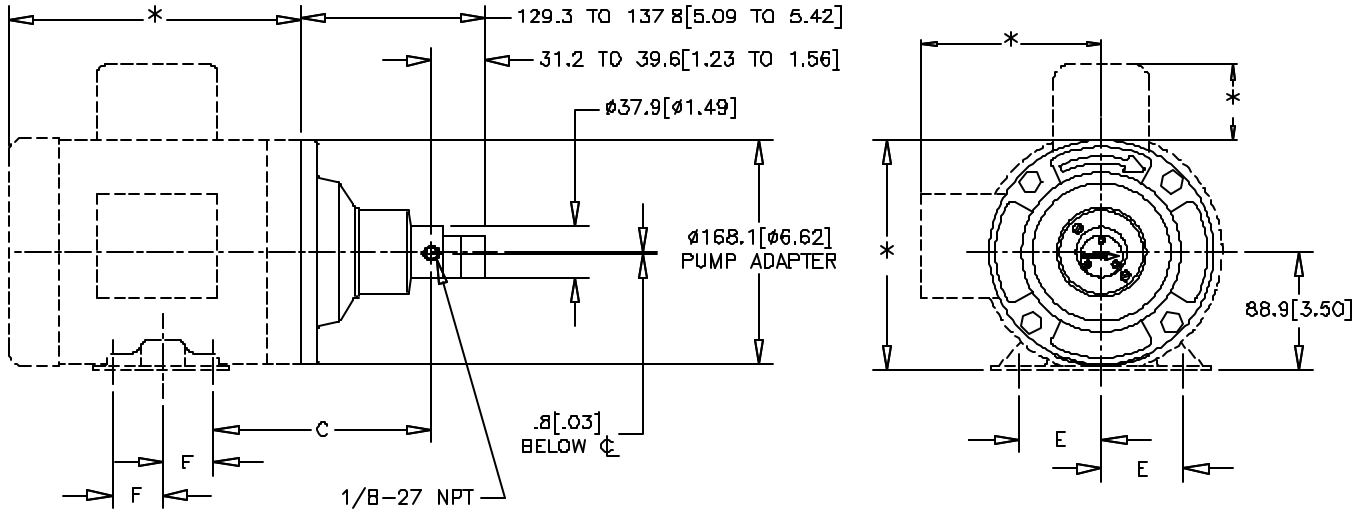
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Order Code								Options		Pump Construction Magnetic Drive Gear Pump Cavity Style Two Helical, Shafted Gears/DP24 Sleeve Bushings Gasket Seals (Qty 2) PTFE Bevel or O-Ring Seal (Qty 1)	
Base Code		Gear Set		Drive Mount							
G	J	-	N21				E				
1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

Dimension



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


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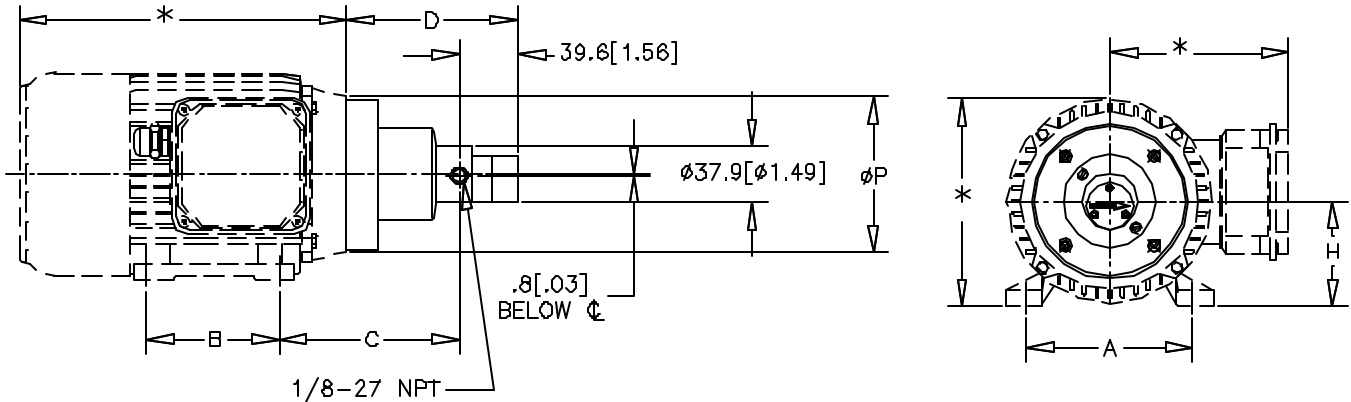
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Order Code								Pump Construction		
Base Code		Gear Set		Drive Mount		Options				
G	J	-	N21			2				Magnetic Drive Gear Pump
1	2	3	4	5	6	7	8			Cavity Style
Model				Wetted Materials				O/C: Pump S/K: Service Kit		
								Two Helical, Shafted Gears/DP24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

Dimension



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:

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


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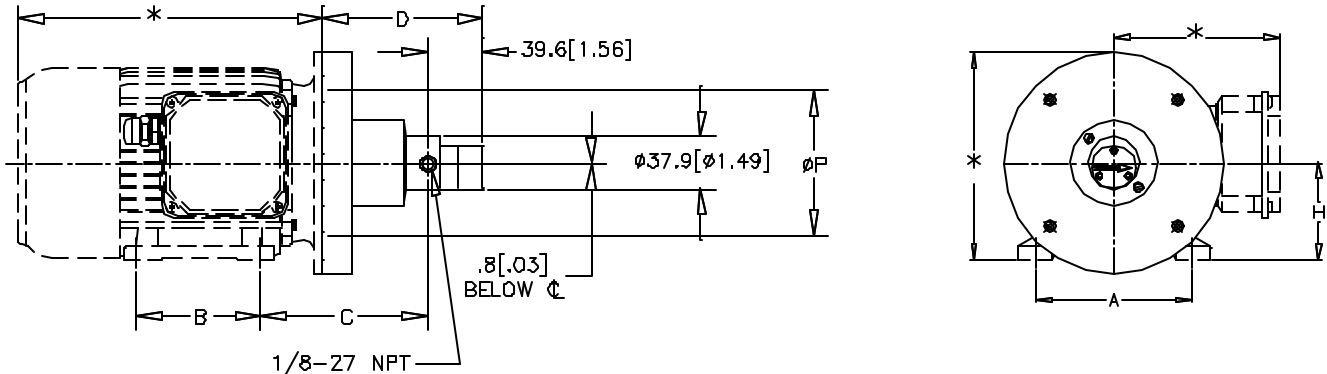
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Order Code								Pump Construction		
Base Code		Gear Set		Drive Mount		Options				
G	J	-	N21			3				Magnetic Drive Gear Pump
1	2	3	4	5	6	7	8			Cavity Style
Model			Wetted Materials			O/C: Pump S/K: Service Kit		Two Helical, Shafted Gears/DP24		
	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

Dimension



MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
³ IEC63B5B3	100 [3.94]	80 [3.15]	108.8 [4.28]	100.1 [3.94] TO 108.5 [4.27]	63 [2.48]	140 [5.51]
⁵ IEC71B5B3	112 [4.41]	90 [3.54]	120.8 [4.76]	107.1 [4.22] TO 115.5 [4.55]	71 [2.80]	160 [6.30]

NOTES:

- *THESE DIMENSIONS WILL VARY BASED ON MOTOR SELECTION.
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