



Series GA

Order Code		Pump Construction																	
Base Code <table border="1"> <tr> <td>G</td> <td>A</td> <td></td> <td></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	A							1	2	3	4	5	6	7	8	Gear Set Drive Mount Options O/C: Pump S/K: Service Kit	
G	A																		
1	2	3	4	5	6	7	8												
Model Wetted Materials		Magnetic Drive Gear Pump Suction Shoe Style Two Spur Gears/DP120, 48 or 40 Stationary Shafts PTFE Bevel 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	A	Series GA	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
	X21	0.063/2/120 (Use C, P8, J8 Gear)	0.017 ml/rev (.0045 gal/1000*rev)	1.4 Bar (20 psi)
	V21	0.063/2/48 (Use C, P8, J8 Gear M)	0.042 ml/rev (0.01 gal/1000*rev)	2.8 Bar (40 psi)
	T23	0.125/2/40 (Hex Drive - Use P or J)	0.092 ml/rev (0.02 gal/1000*rev)	5.2 Bar (75 psi)
5		Gear Material	Max Differential Pressure	Temp Range
	C	Carbon Graphite	2.8 Bar (40 psi)	-46/177°C (-50/350°F)
	P	PPS (carbon fiber/ptfe)	5.2 Bar (75 psi)	-46/177°C (-50/350°F)
	J	PEEK (carbon fiber/ptfe)	5.2 Bar (75 psi)	-46/177°C (-50/350°F)
	J8	PEEK-Pin Drive	2.8 Bar (40 psi)	-46/177°C (-50/350°F)
	P8	PPS-Pin Drive	2.8 Bar (40 psi)	-46/177°C (-50/350°F)
6		Static Seals		Temp Range
	F	PTFE		-46/232°C (-50/450°F)
	D	EP		-46/149°C (-50/300°F)
	V	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)
	B	MP Plate	21 Bar (300 psi)	0.34 kg (0.75 lbs)
	C	MP Step Cup (2 oz-in, SS316)	21 Bar (300 psi)	0.31 kg (0.68 lbs)
	M	I-Drive™ IMS	21 Bar(300 psi) SS316	0.37 kg (0.82 lbs)
	E	NEMA 56C	21 Bar (300 psi)	1.1 kg (2.4 lbs)
	2	IEC 56-B14	21 Bar (300 psi)	1.1 kg (2.4 lbs)
	4	IEC 63-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.

	Driving Magnet (PC13)	
N3	NdFeB Driving (Ring)	1

Notes

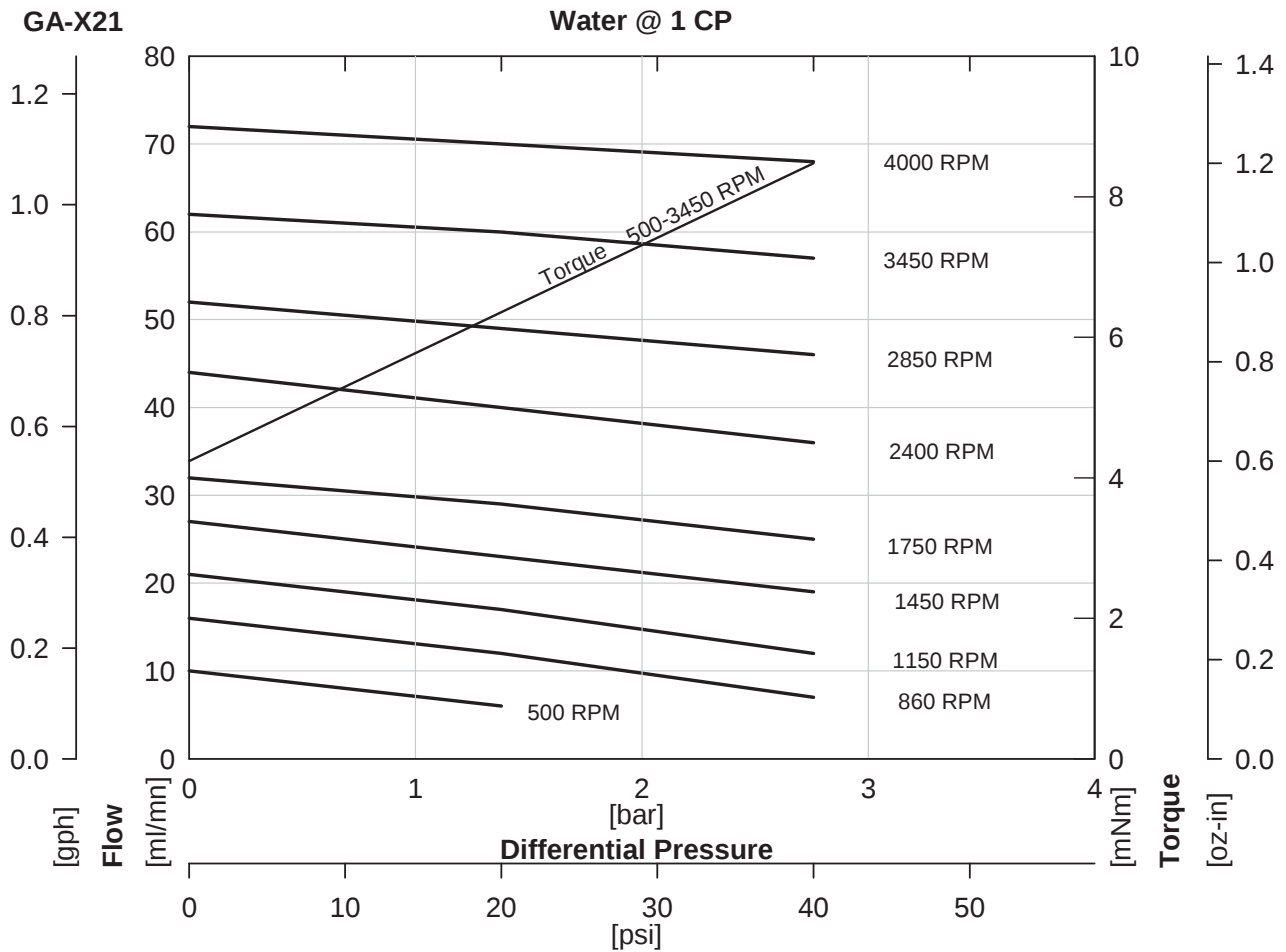
- 1 Available only with industrial IEC or NEMA drive mounts

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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 info.micropump@idexcorp.com www.micropump.com

Order Code										Pump Construction	
Base Code			Gear Set		Drive Mount		Options			 Magnetic Drive Gear Pump Suction Shoe Style Two Spur Gears/DP120, 48 or 40 Stationary Shafts PTFE Bevel Seal (Qty 1)	
G	A	-	X21	C							
1	2	3	4	5	6	7	8				
Model			Wetted Materials			O/C: Pump S/K: Service Kit					

Performance

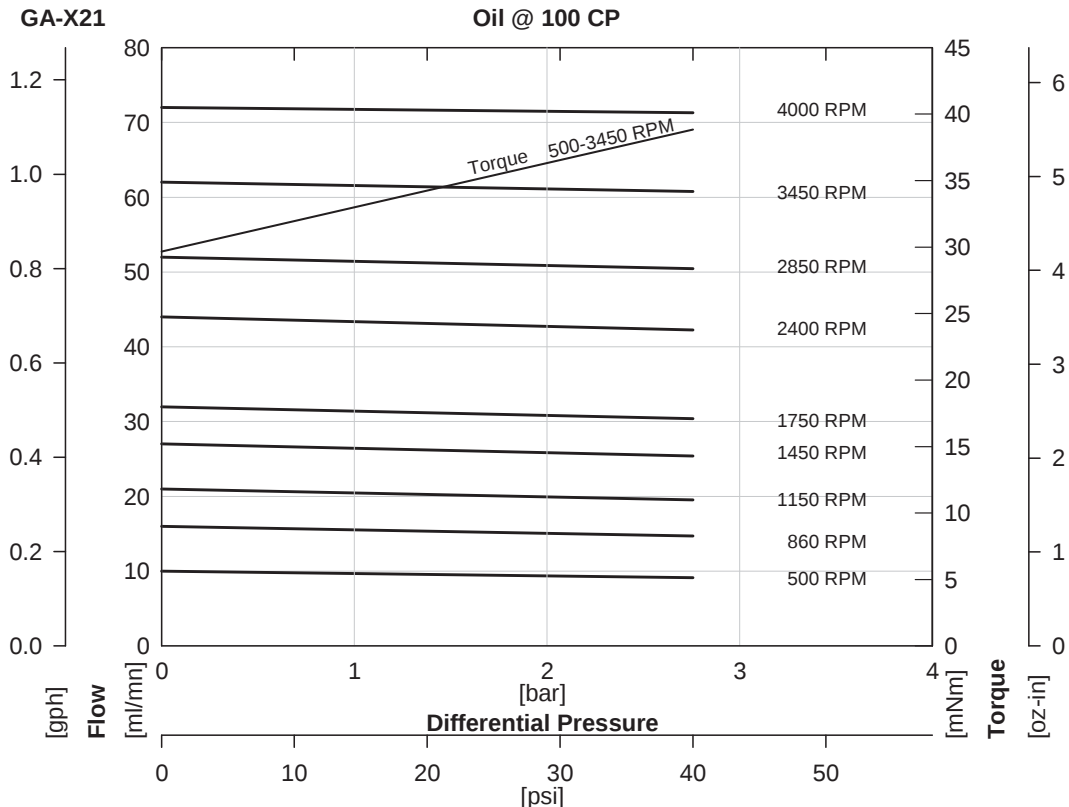


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Order Code										Pump Construction									
Base Code				Gear Set				Drive Mount				Options							
G	A	-	X21	C						O/C: Pump S/K: Service Kit									
1	2	3	4	5	6	7	8	Wetted Materials											

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]		8000	3450	1750
[Bar]	[psi]			
0.3	5	0.1	1	1.8
0.7	10	0.2	1	1.8
1.4	20	0.2	1	1.7
2.1	30	0.2	1	1.7
2.8	40	0.2	1	1.6

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
Ferrite	Ferrite	78	11

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Order Code Base Code <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="width: 12.5%;">G</td> <td style="width: 12.5%;">A</td> <td style="width: 12.5%;">-</td> <td style="width: 12.5%;">X21</td> <td style="width: 12.5%;">C</td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></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> Model Wetted Materials Options O/C: Pump S/K: Service Kit								G	A	-	X21	C				1	2	3	4	5	6	7	8	Pump Construction Magnetic Drive Gear Pump Suction Shoe Style Two Spur Gears/DP120, 48 or 40 Stationary Shafts PTFE Bevel Seal (Qty 1)	
G	A	-	X21	C																					
1	2	3	4	5	6	7	8																		

Specifications

	SI	US
Displacement	0.017 ml/rev	.0045 gal/1000*rev
Max Flow (4 Pole Speed)	30 ml/mn 1450 RPM (50Hz)	0.5 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	50 ml/mn 2850 RPM (50Hz)	0.9 gal/hr 3450 RPM (60Hz)
Max Differential Pressure	1 2.8 Bar	40 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	8,000 RPM	8,000 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	No	No

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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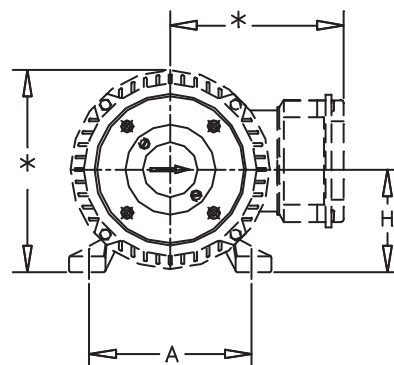
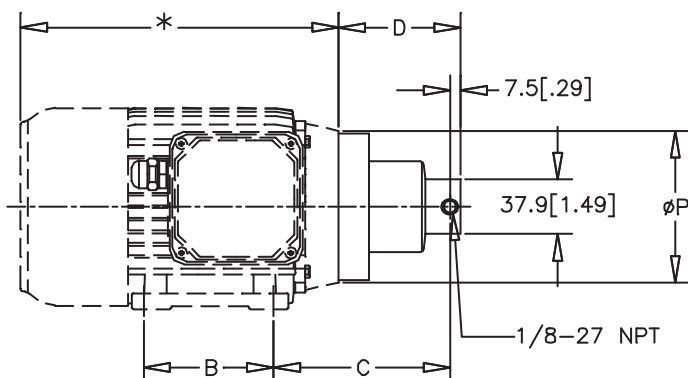
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<u>Order Code</u>								<u>Pump Construction</u>		
Base Code			Gear Set		Drive Mount		Options		Magnetic Drive Gear Pump	
G	A	-	X21	C			2/4/6		Suction Shoe Style	
1	2	3	4	5	6	7	8		Two Spur Gears/DP120, 48 or 40	
Model			Wetted Materials			O/C: Pump S/K: Service Kit			Stationary Shafts	
										PTFE Bevel Seal (Qty 1)

Pump Construction

Magnetic Drive Gear Pump
Suction Shoe Style
Two Spur Gears/DP120, 48 or 40
Stationary Shafts
PTFE Bevel 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]	100.5 [3.96]	71.8 [2.83]	56 [2.20]	80 [3.15]
4 IEC63B14B3	100 [3.94]	80 [3.15]	110.1 [4.33]	77.5 [3.05]	63 [2.48]	90 [3.54]
6 IEC71B14B3	112 [4.41]	90 [3.54]	122.1 [4.81]	84.5 [3.33]	71 [2.80]	105 [4.13]

NOTES:

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

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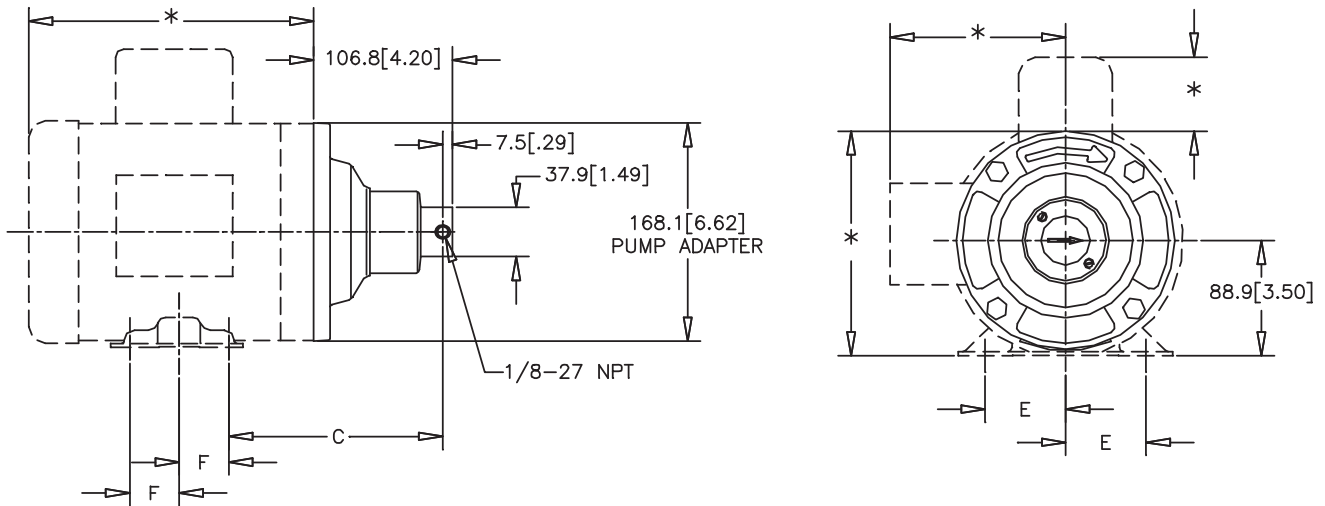
Order Code								Options	
Base Code			Gear Set		Wetted Materials			Drive Mount	
G	A	-	X21	C				E	
1	2	3	4	5	6	7	8	O/C: Pump S/K: Service Kit	
Model									

Pump Construction

Magnetic Drive Gear Pump
Suction Shoe Style
Two Spur Gears/DP120, 48 or 40
Stationary Shafts
PTFE Bevel Seal (Qty 1)



Dimensions



MOUNT	C mm [in]	E mm [in]	F mm [in]
NEMA 56C	164.6 [6.48]	61.9 [2.44]	38.1 [1.50]
NEMA 143TC	159.9 [6.30]	69.9 [2.75]	50.8 [2.00]
NEMA 145TC	159.9 [6.30]	69.9 [2.75]	63.5 [2.50]

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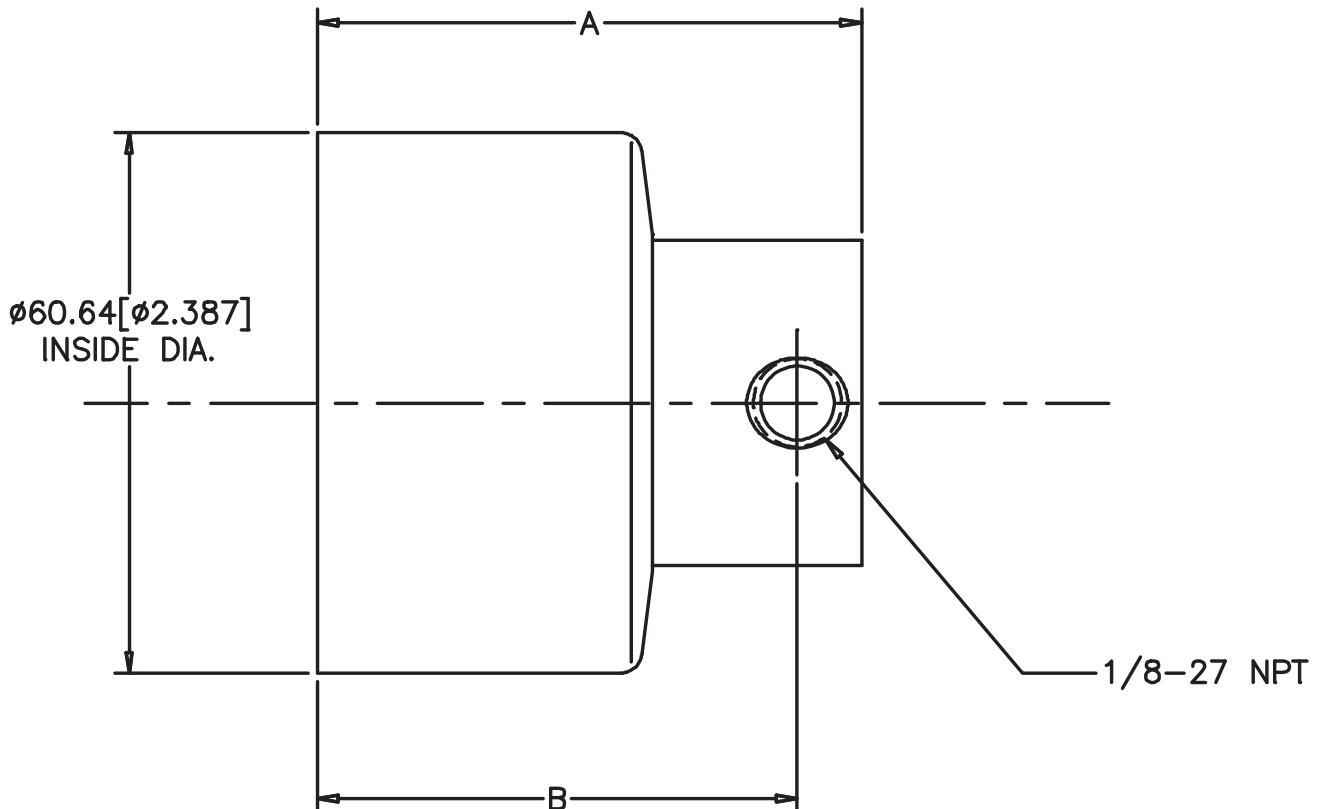
Technical Data

Series GA

Order Code								Gear Set		Drive Mount		Options		
Base Code														
G	A	-	X21	C			A/B							
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 Spur Gears/DP120, 48 or 40
Stationary Shafts
PTFE Bevel Seal (Qty 1)

Dimensions



A (MAX) mm [in]	B mm [in]
63.5 [2.50]	56 [2.20]

NOTES:

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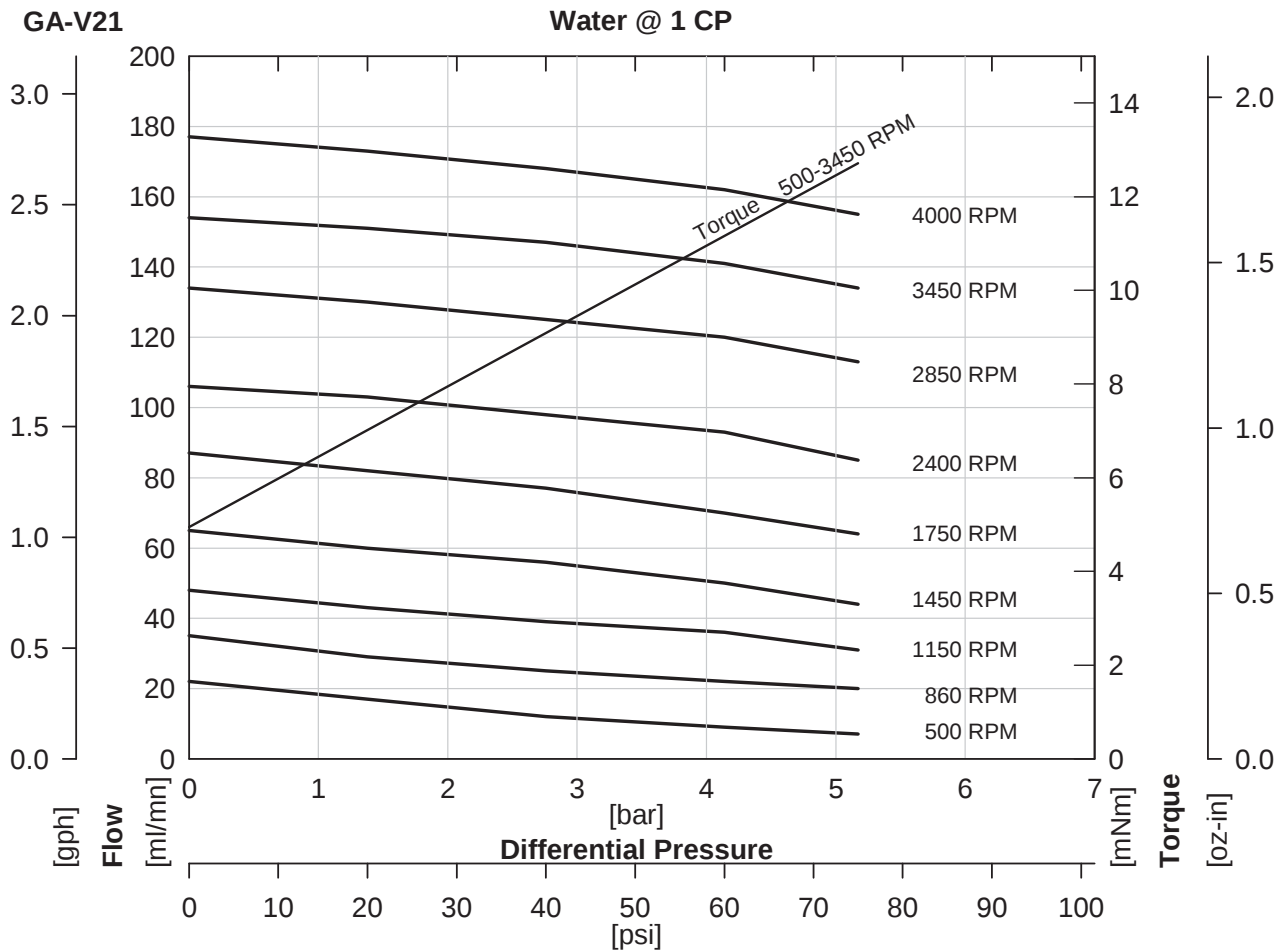
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Base Code			Gear Set		Drive Mount		Options		
G	A	-	V21	C					
1	2	3	4	5	6	7	8		
Model			Wetted Materials			O/C: Pump S/K: Service Kit			

Magnetic Drive Gear Pump
Suction Shoe Style
Two Spur Gears/DP120, 48 or 40
Stationary Shafts
PTFE Bevel Seal (Qty 1)



Performance

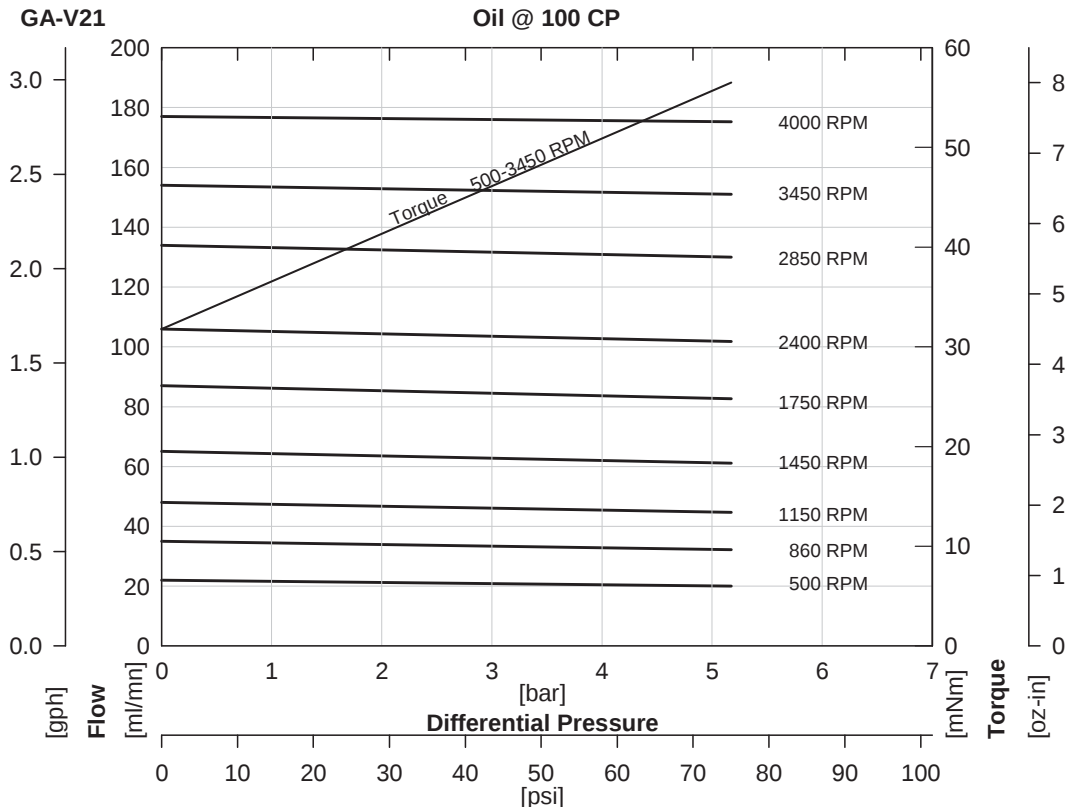


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Base Code		Gear Set		Drive Mount		Options		 Magnetic Drive Gear Pump Suction Shoe Style Two Spur Gears/DP120, 48 or 40 Stationary Shafts PTFE Bevel Seal (Qty 1)	
G	A	-	V21	C					
1	2	3	4	5	6	7	8		
Model			Wetted Materials			O/C: Pump S/K: Service Kit			

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]		8000	3450	1750
[Bar]	[psi]			
0.3	5	0.2	1	2.9
1.4	20	0.2	1	2.8
2.8	40	0.2	1	2.7
4.1	60	0.2	1	2.6
5.5	80	0.2	1	2.5

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
Ferrite	Ferrite	78	11

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Base Code		Gear Set		Drive Mount		Options		 Magnetic Drive Gear Pump Suction Shoe Style Two Spur Gears/DP120, 48 or 40 Stationary Shafts PTFE Bevel Seal (Qty 1)	
G	A	-	V21	C					
1	2	3	4	5	6	7	8		
Model				Wetted Materials		O/C: Pump S/K: Service Kit			

Specifications

	SI	US
Displacement	0.042 ml/rev	0.01 gal/1000*rev
Max Flow (4 Pole Speed)	70 ml/mn 1450 RPM (50Hz)	1.2 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	120 ml/mn 2850 RPM (50Hz)	2.3 gal/hr 3450 RPM (60Hz)
Max Differential Pressure	1 2.8 Bar	40 psi
Max System Pressure (MAWP)	21 Bar	300 psi
NIPR (Absolute)	180 mBar	2.5 psia
Wet Lift (Typical)	2 51 cm.H ₂ O (1450 RPM)	24 in.H ₂ O (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	8,000 RPM	8,000 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	No	No

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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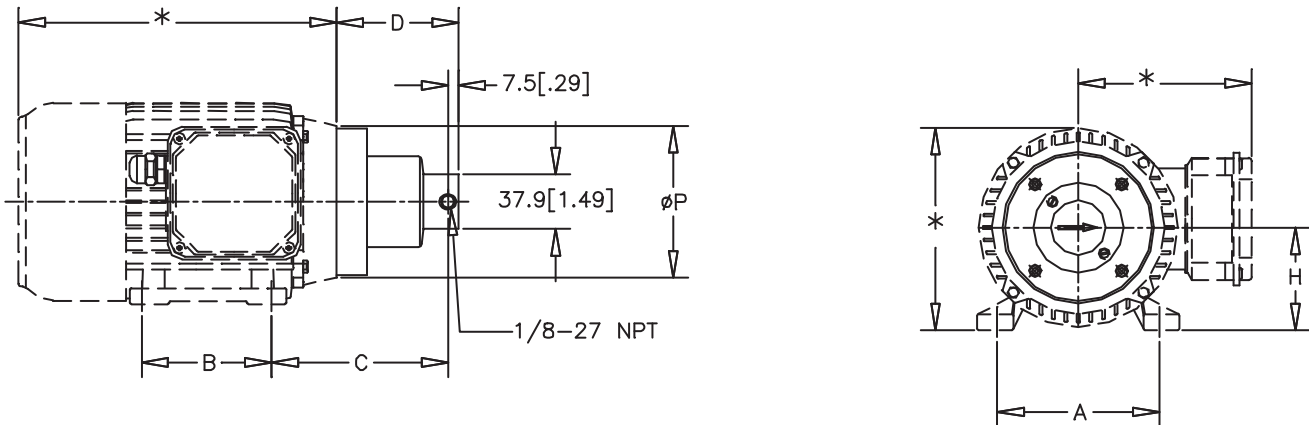
Order Code								Options		
Base Code			Gear Set		Drive Mount					
G	A	-	V21	C			2/4/6			
1	2	3	4	5	6	7	8			
Model			Wetted Materials			O/C: Pump S/K: Service Kit				

Pump Construction	
Magnetic Drive Gear Pump	
Suction Shoe Style	
Two Spur Gears/DP120, 48 or 40	
Stationary Shafts	
PTFE Bevel Seal (Qty 1)	

Pump Construction

Magnetic Drive Gear Pump
Suction Shoe Style
Two Spur Gears/DP120, 48 or 40
Stationary Shafts
PTFE Bevel 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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NOTES:

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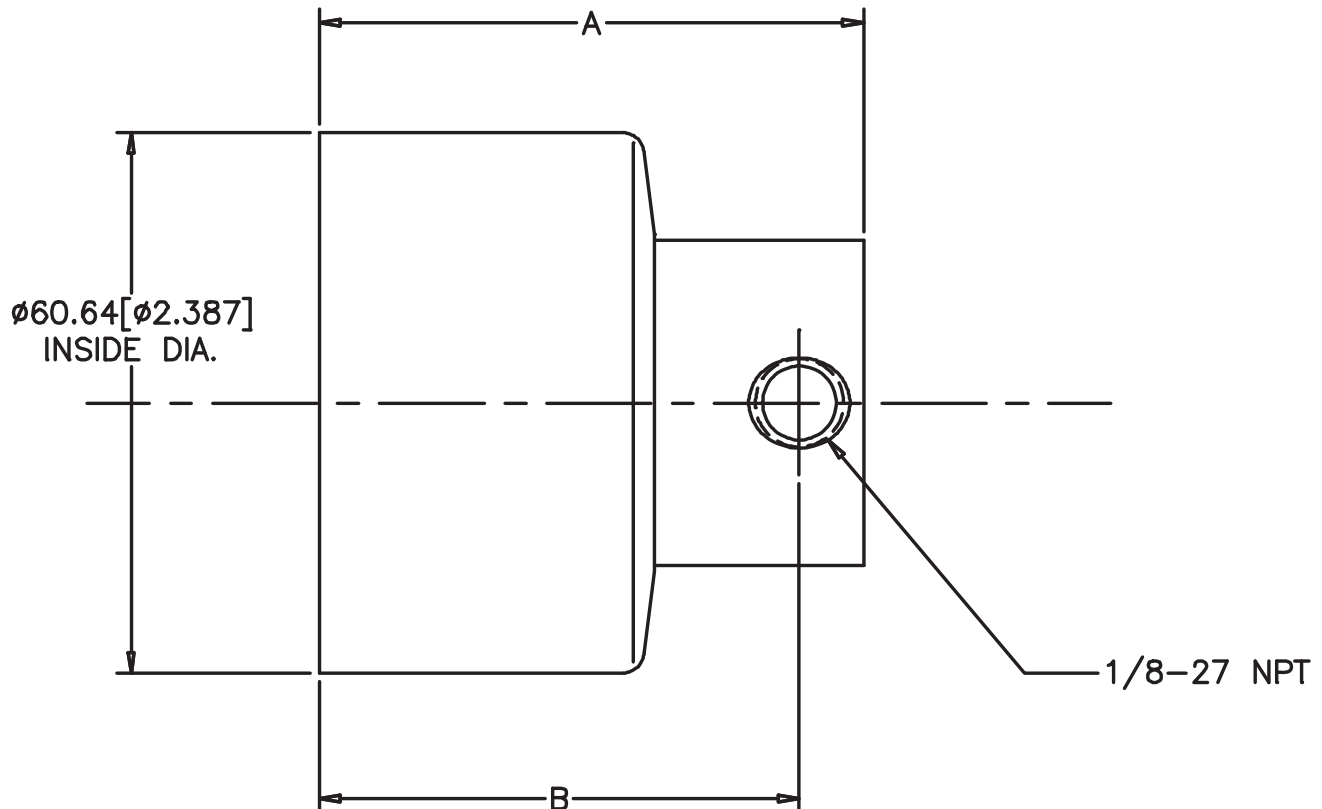
Technical Data

Series GA

Order Code								Gear Set		Drive Mount		Options		
Base Code														
G	A	-	V21	C			A/B							
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 Spur Gears/DP120, 48 or 40
Stationary Shafts
PTFE Bevel Seal (Qty 1)

Dimensions



A (MAX) mm [in]	B mm [in]
63.5 [2.50]	56 [2.20]

NOTES:

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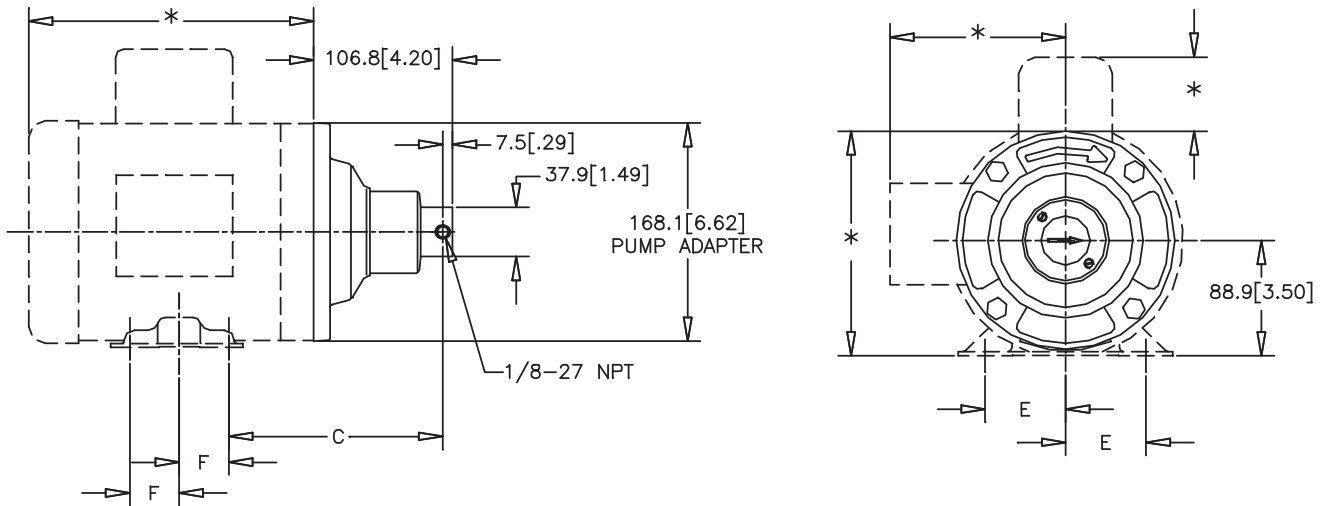
Order Code								Options	
Base Code			Gear Set		Wetted Materials			Drive Mount	
G	A	-	V21	C				E	
1	2	3	4	5	6	7	8	O/C: Pump S/K: Service Kit	
Model									

Pump Construction

Magnetic Drive Gear Pump
Suction Shoe Style
Two Spur Gears/DP120, 48 or 40
Stationary Shafts
PTFE Bevel Seal (Qty 1)



Dimensions



MOUNT	C mm [in]	E mm [in]	F mm [in]
NEMA 56C ^E	164.6 [6.48]	61.9 [2.44]	38.1 [1.50]
NEMA 143TC ^K	159.9 [6.30]	69.9 [2.75]	50.8 [2.00]
NEMA 145TC ^K	159.9 [6.30]	69.9 [2.75]	63.5 [2.50]

NOTES:

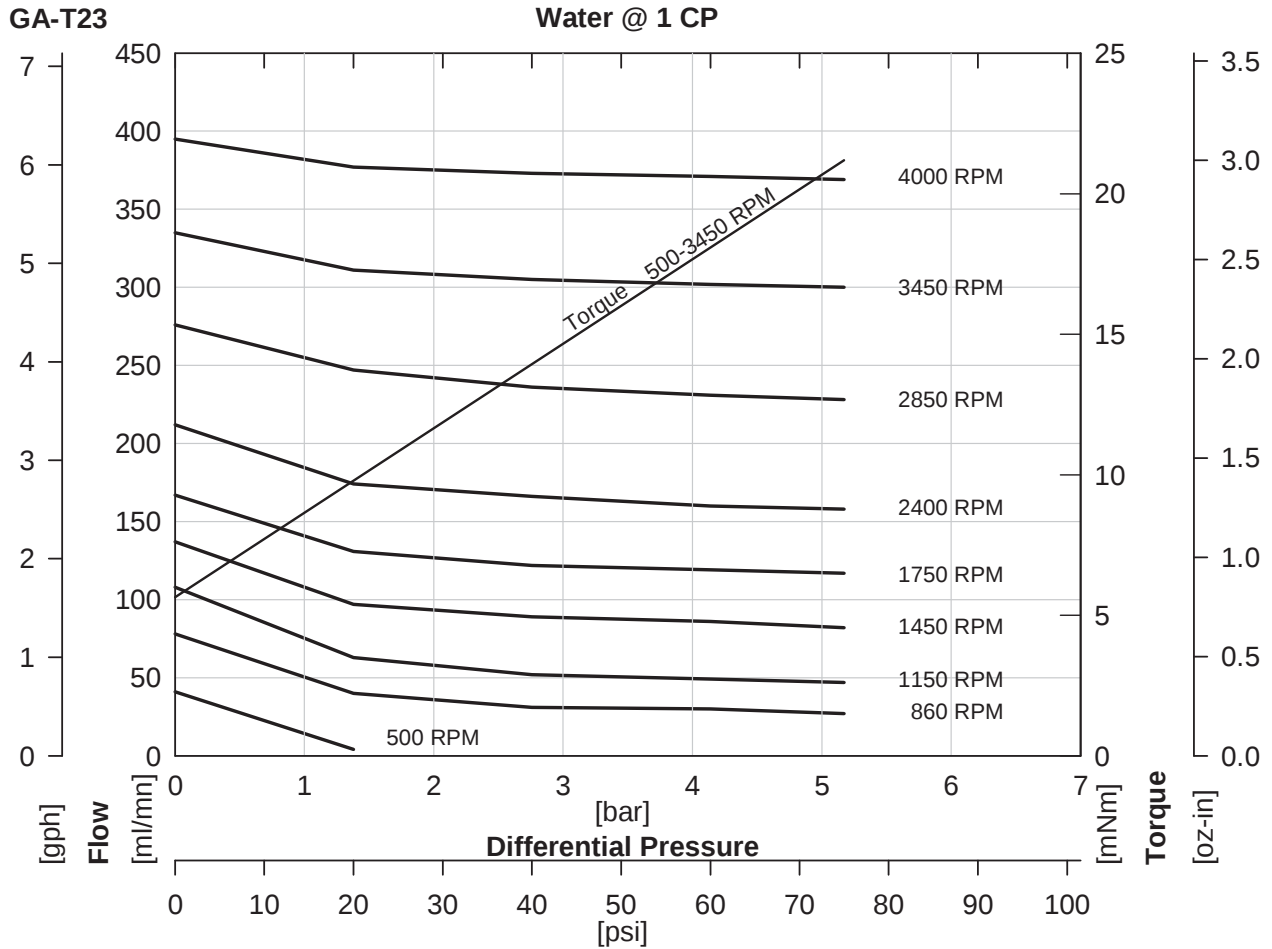
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Order Code		Gear Set		Drive Mount		Options		Pump Construction Magnetic Drive Gear Pump Suction Shoe Style Two Spur Gears/DP120, 48 or 40 Stationary Shafts PTFE Bevel Seal (Qty 1)	
Base Code									
G	A	-	T23						
1	2	3	4	5	6	7	8		
Model			Wetted Materials			O/C: Pump S/K: Service Kit			

Performance



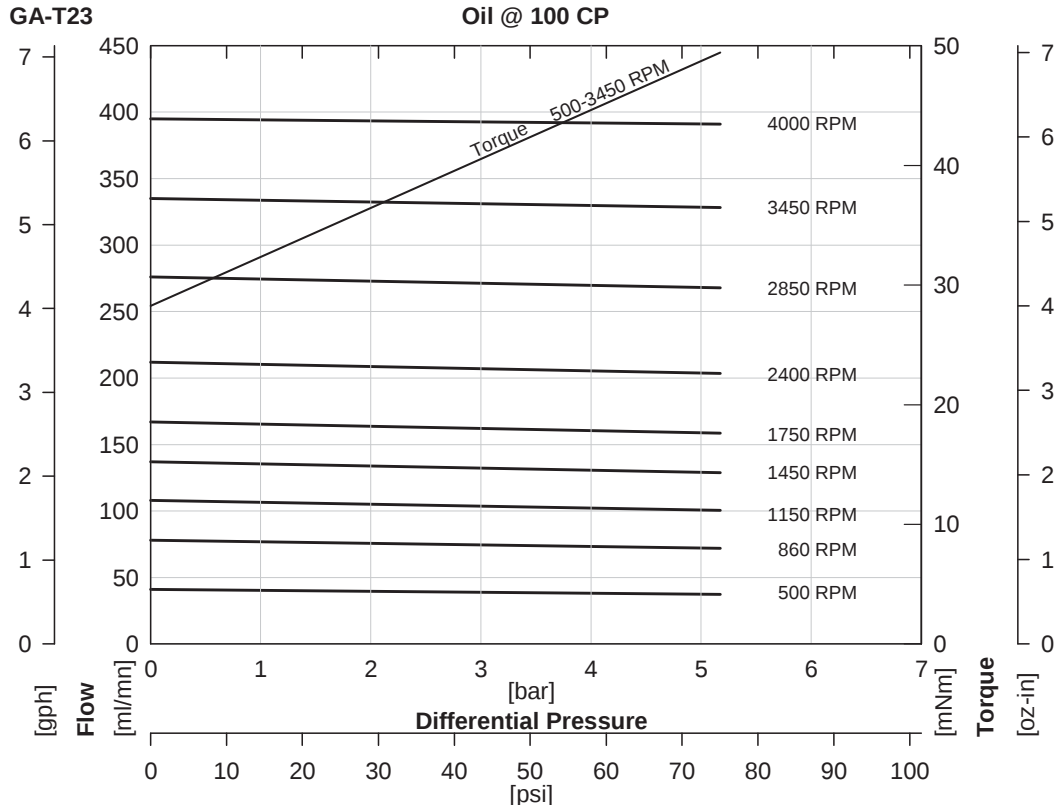
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info@micropump.com www.micropump.com

Order Code				Pump Construction			
Base Code		Gear Set	Drive Mount	Options			
G	A	-	T23				
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]		8000	3450	1750
[Bar]	[psi]			
0.3	5	0.2	1	3.0
1.4	20	0.2	1	2.8
2.8	40	0.3	1	2.7
4.1	60	0.4	1	2.5
5.5	80	0.4	1	2.4

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
Ferrite	Ferrite	78	11

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Order Code								Pump Construction	
Base Code		Gear Set		Drive Mount		Options		 Magnetic Drive Gear Pump Suction Shoe Style Two Spur Gears/DP120, 48 or 40 Stationary Shafts PTFE Bevel Seal (Qty 1)	
G	A	-	T23						
1	2	3	4	5	6	7	8		
Model			Wetted Materials			O/C: Pump S/K: Service Kit			

Specifications

	SI	US
Displacement	0.092 ml/rev	0.02 gal/1000*rev
Max Flow (4 Pole Speed)	140 ml/mn 1450 RPM (50Hz)	2.6 gal/hr 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	270 ml/mn 2850 RPM (50Hz)	5.1 gal/hr 3450 RPM (60Hz)
Max Differential Pressure	1 5.2 Bar	75 psi
Max System Pressure (MAWP)	21 Bar	300 psi
NIPR (Absolute)	180 mBar	2.5 psia
Wet Lift (Typical)	2 51 cm.H ₂ O (1450 RPM)	24 in.H ₂ O (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	8,000 RPM	8,000 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	No	No

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	A	-	T23			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 Spur Gears/DP120, 48 or 40

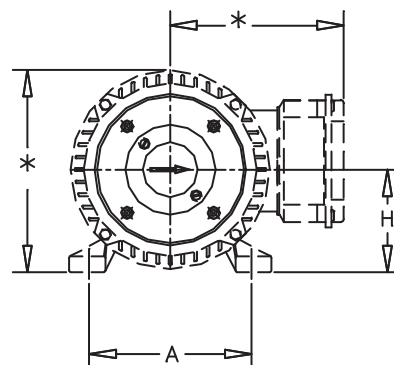
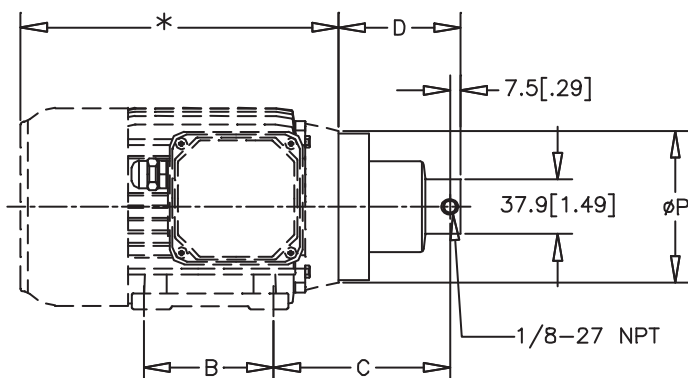
Stationary Shafts

PTFE Bevel Seal (Qty 1)

Pump Construction

Magnetic Drive Gear Pump
Suction Shoe Style
Two Spur Gears/DP120, 48 or 40
Stationary Shafts
PTFE Bevel 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]	100.5 [3.96]	71.8 [2.83]	56 [2.20]	80 [3.15]
4 IEC63B14B3	100 [3.94]	80 [3.15]	110.1 [4.33]	77.5 [3.05]	63 [2.48]	90 [3.54]
6 IEC71B14B3	112 [4.41]	90 [3.54]	122.1 [4.81]	84.5 [3.33]	71 [2.80]	105 [4.13]

NOTES:

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

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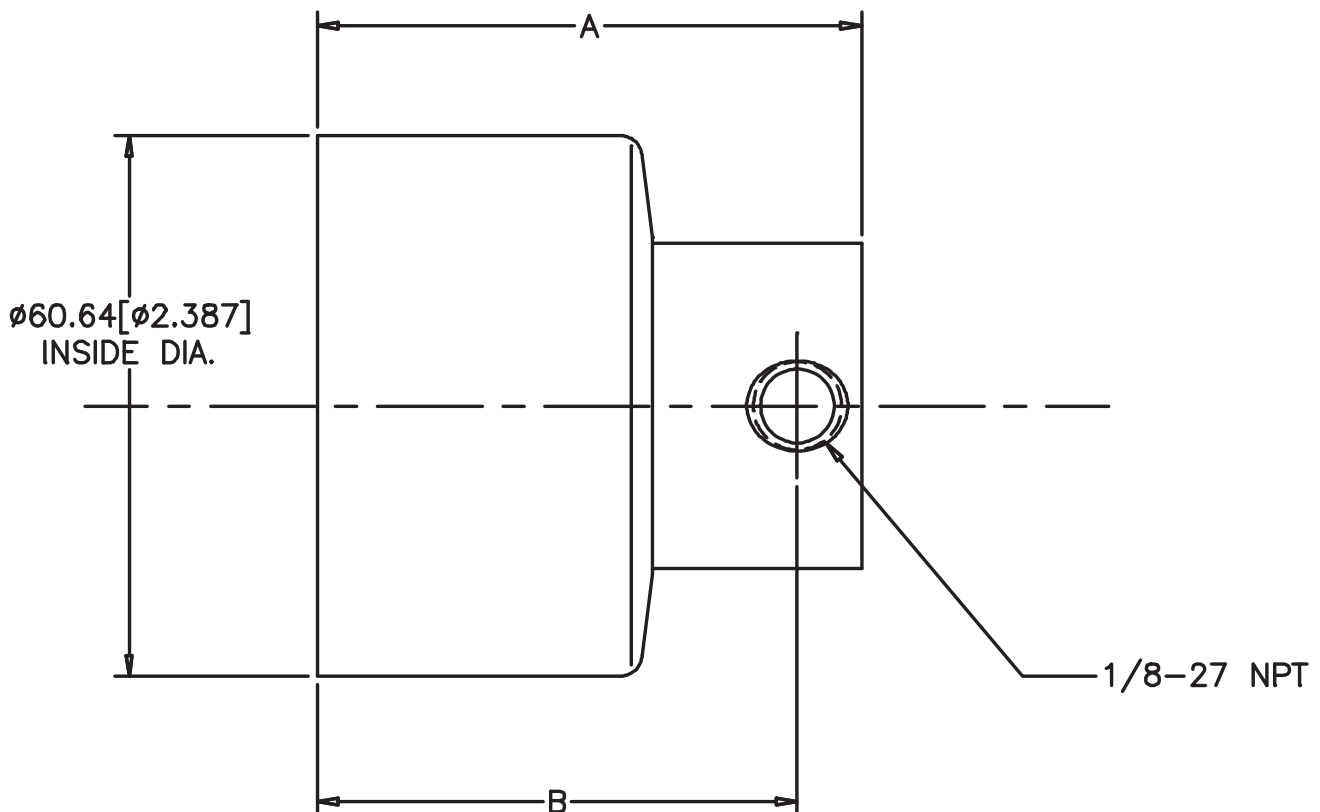


Technical Data

Series GA

Order Code								Pump Construction	
Base Code				Gear Set	Drive Mount		Options		
G	A	-	T23			A/B			
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 Spur Gears/DP120, 48 or 40 Stationary Shafts PTFE Bevel Seal (Qty 1)									

Dimensions



A (MAX) mm [in]	B mm [in]
63.5 [2.50]	56 [2.20]

NOTES:

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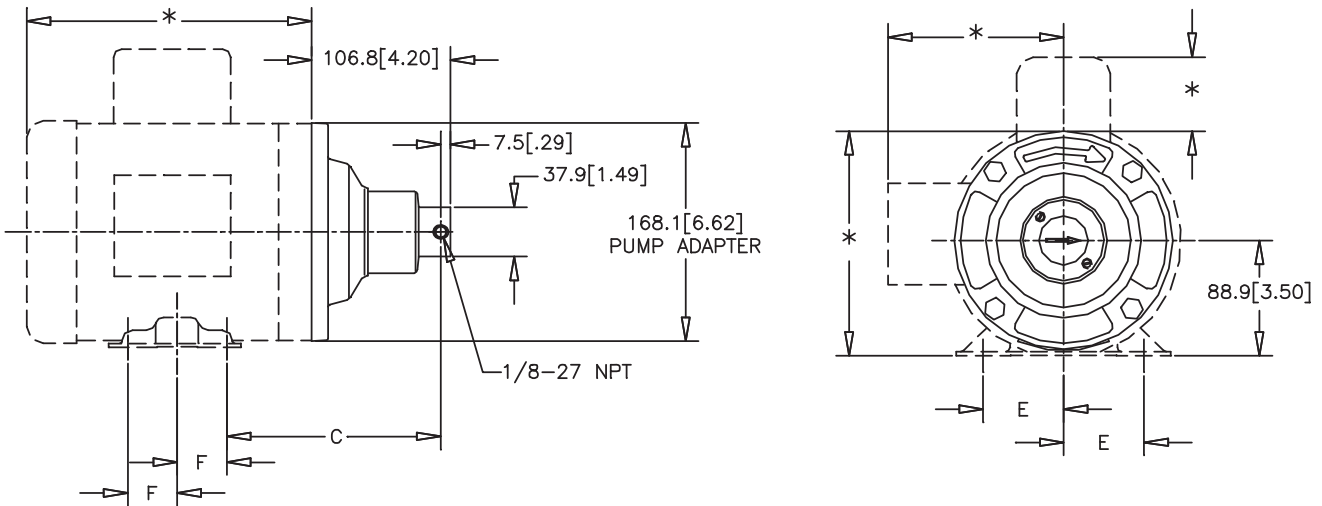
Order Code								Options		
Base Code			Gear Set		Drive Mount					
G	A	-	T23				E			
1	2	3	4	5	6	7	8			
Model			Wetted Materials			O/C: Pump S/K: Service Kit				

Pump Construction	
Magnetic Drive Gear Pump	
Suction Shoe Style	
Two Spur Gears/DP120, 48 or 40	
Stationary Shafts	
PTFE Bevel Seal (Qty 1)	

Pump Construction

Magnetic Drive Gear Pump
Suction Shoe Style
Two Spur Gears/DP120, 48 or 40
Stationary Shafts
PTFE Bevel Seal (Qty 1)

Dimensions



MOUNT	C mm [in]	E mm [in]	F mm [in]
NEMA 56C ^E	164.6 [6.48]	61.9 [2.44]	38.1 [1.50]
NEMA 143TC ^K	159.9 [6.30]	69.9 [2.75]	50.8 [2.00]
NEMA 145TC ^K	159.9 [6.30]	69.9 [2.75]	63.5 [2.50]

NOTES:

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