Series Overview — Series GA

Order Code

Base Code		Gear Set				Drive Mount	Options
G	A						
1	2	3	4	5	6	7	8

Model: 1–2 | Wetted Materials: 6–7

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)

Base Code

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

	Code	Product Type	Specifications		Notes
1	G	Gear Pump			
2		**Product Series**	*Max System Pressure (MAWP)*	*Ports*	
	A	Series GA	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)*
	X21	0.063/2/120 (Use C, P8, J8 Gear	0.017 ml/rev (.0045 gal/1000*rev)	1.4 Bar (20 psi)	Ferrite
	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)	Ferrite
	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)	Ferrite
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

Order Code

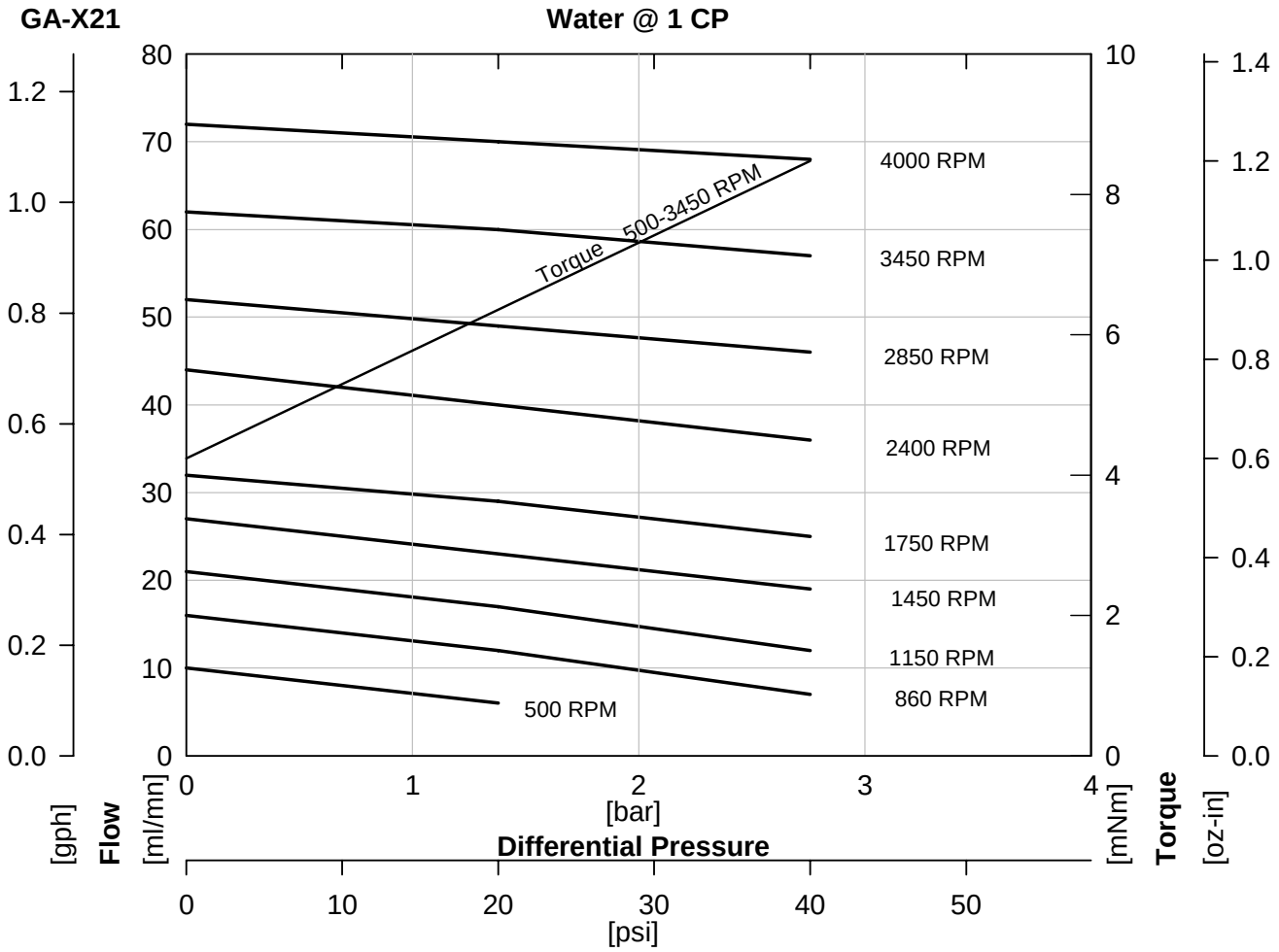
Base Code			Gear Set				Drive Mount	Options
G	A	-	X21	C				
1	2	3	4	5	6	7	8	

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)

Performance



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Order Code

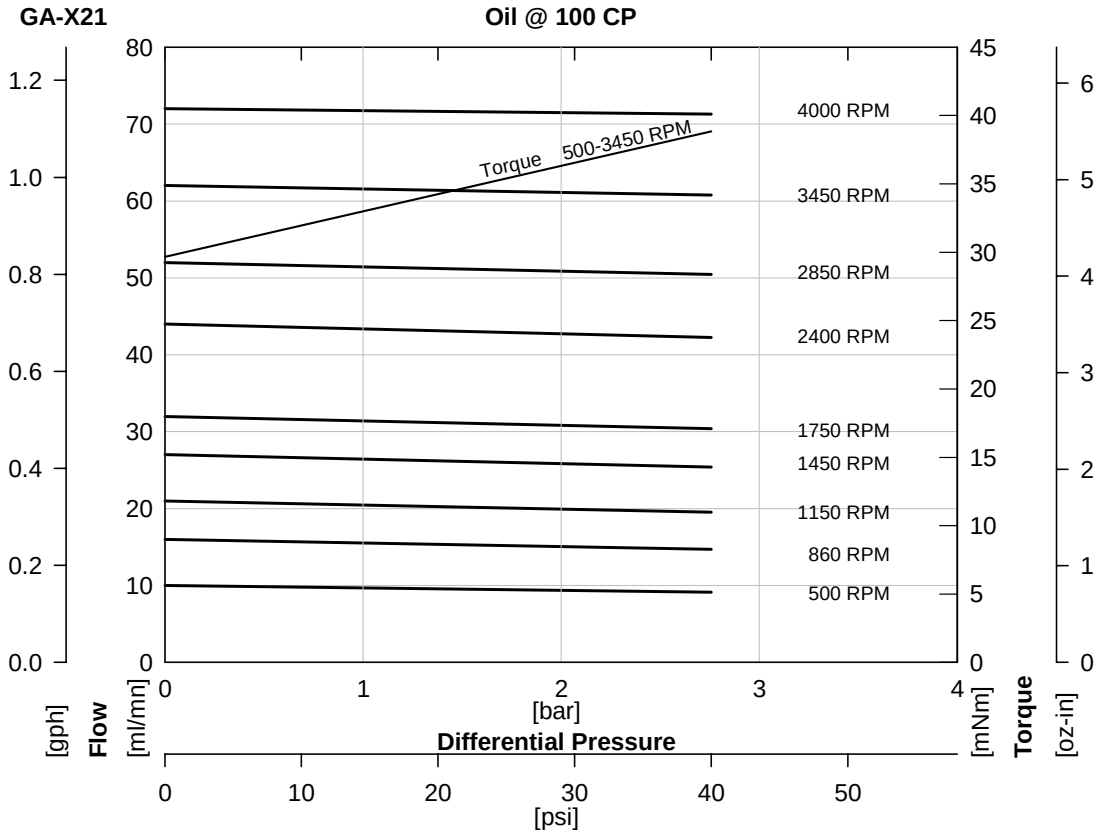
Base Code			Gear Set				Drive Mount	Options
G	A	-	X21	C				
1	2	3	4	5	6	7	8	

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)

Performance-High Viscosity



Watts=Torque [mNm] x Speed [RPM] / 9555

HP=Torque [oz-in] x Speed [RPM] / 1.008 x 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			Gear Set				Drive Mount	Options
G	A	-	X21	C				
1	2	3	4	5	6	7	8	

Model: 1–4 | Wetted Materials: 5–7

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)

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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Order Code

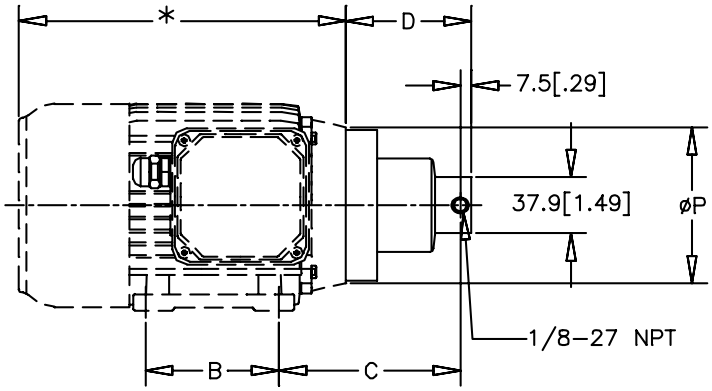
Base Code			Gear Set				Drive Mount	Options
G	A	-	X21	C			2/4/6	
1	2	3	4	5	6	7	8	

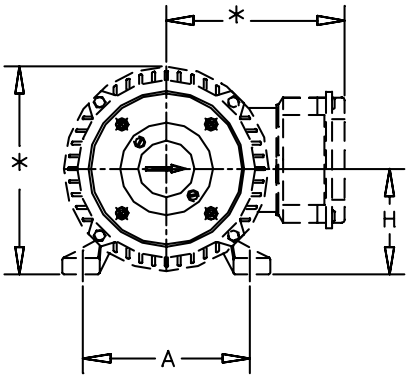
Model — Wetted Materials

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)

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:

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

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Order Code

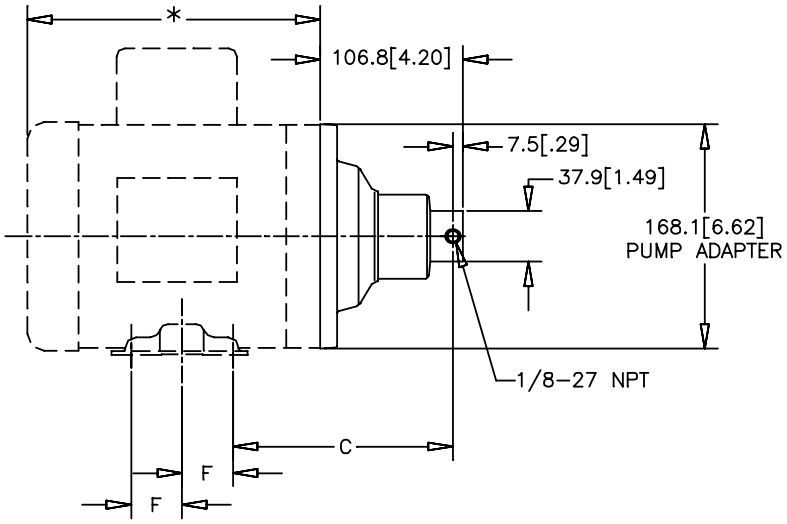
Base Code			Gear Set				Drive Mount	Options
G	A	-	X21	C			E	
1	2	3	4	5	6	7	8	

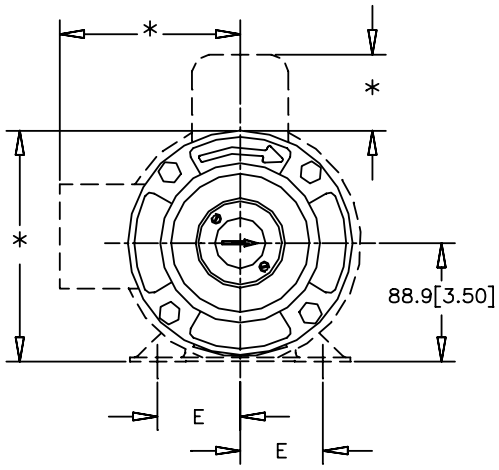
Model — Wetted Materials

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)

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

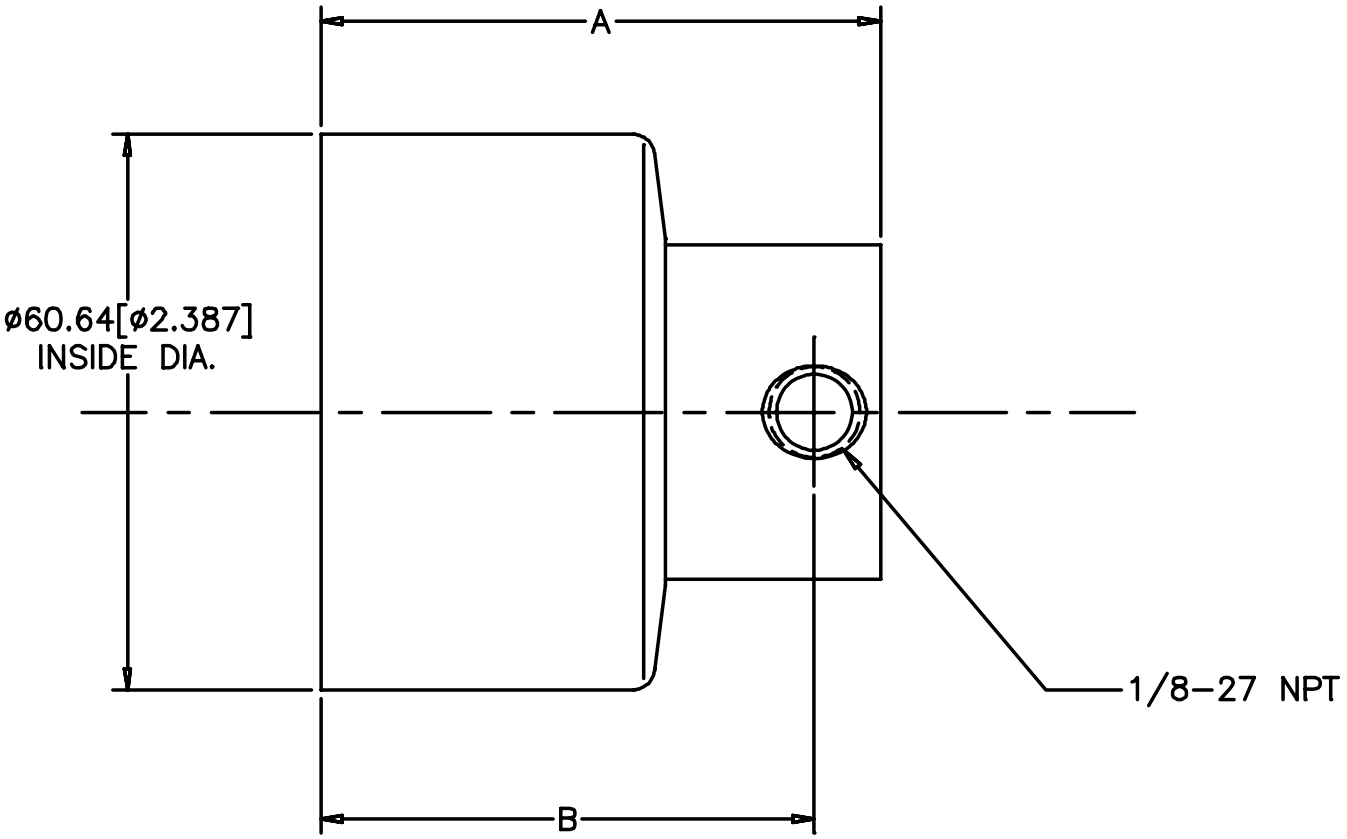
Base Code			Gear Set				Drive Mount	Options
G	A	-	X21	C			A/B	
1	2	3	4	5	6	7	8	

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:

1. ALL DIMENSIONS ARE NOMINAL.

Order Code

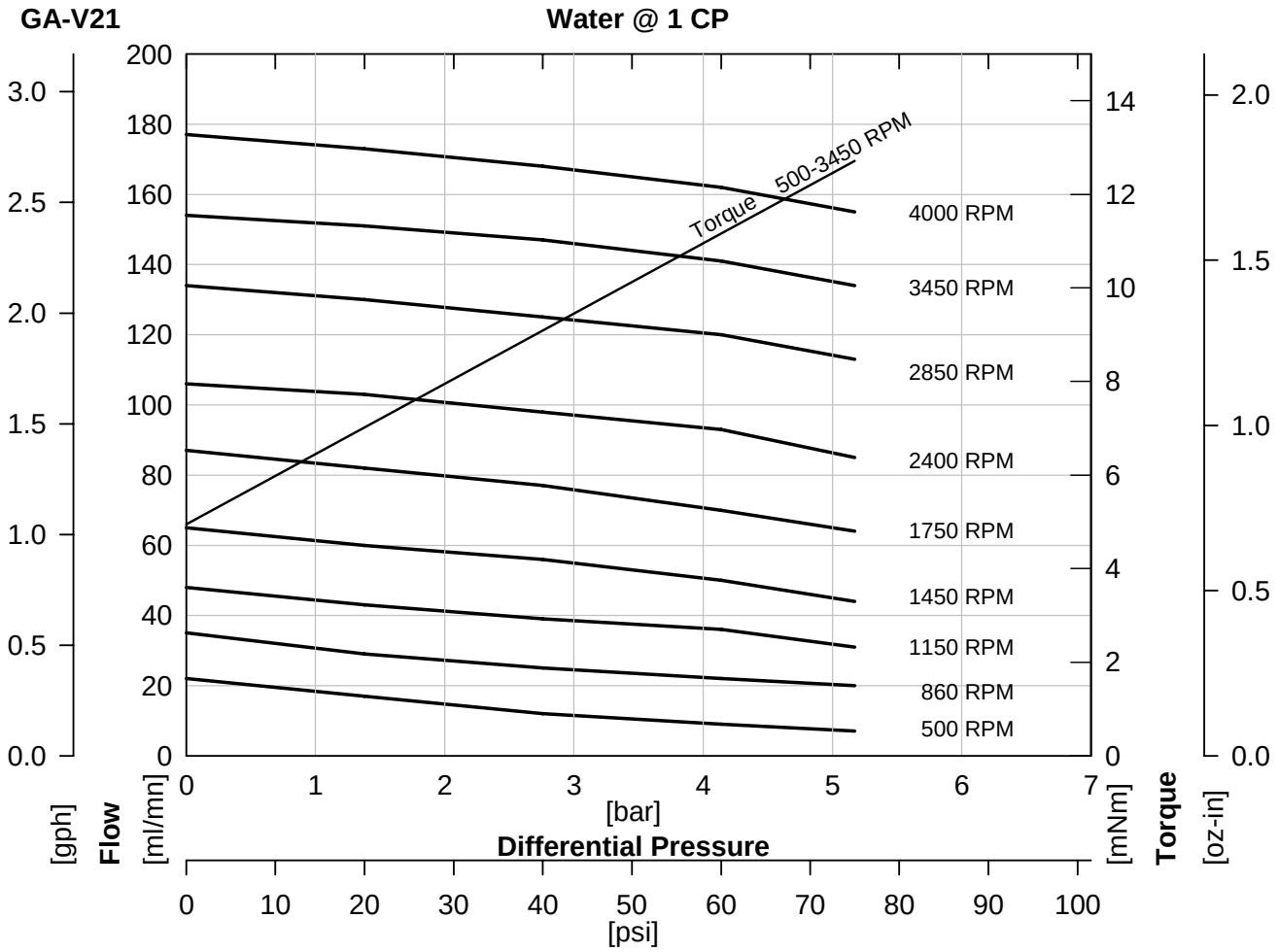
Base Code			Gear Set				Drive Mount	Options
G	A	-	V21	C				
1	2	3	4	5	6	7	8	

Model: 1–4 · Wetted Materials: 5–7

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)

Performance



Order Code

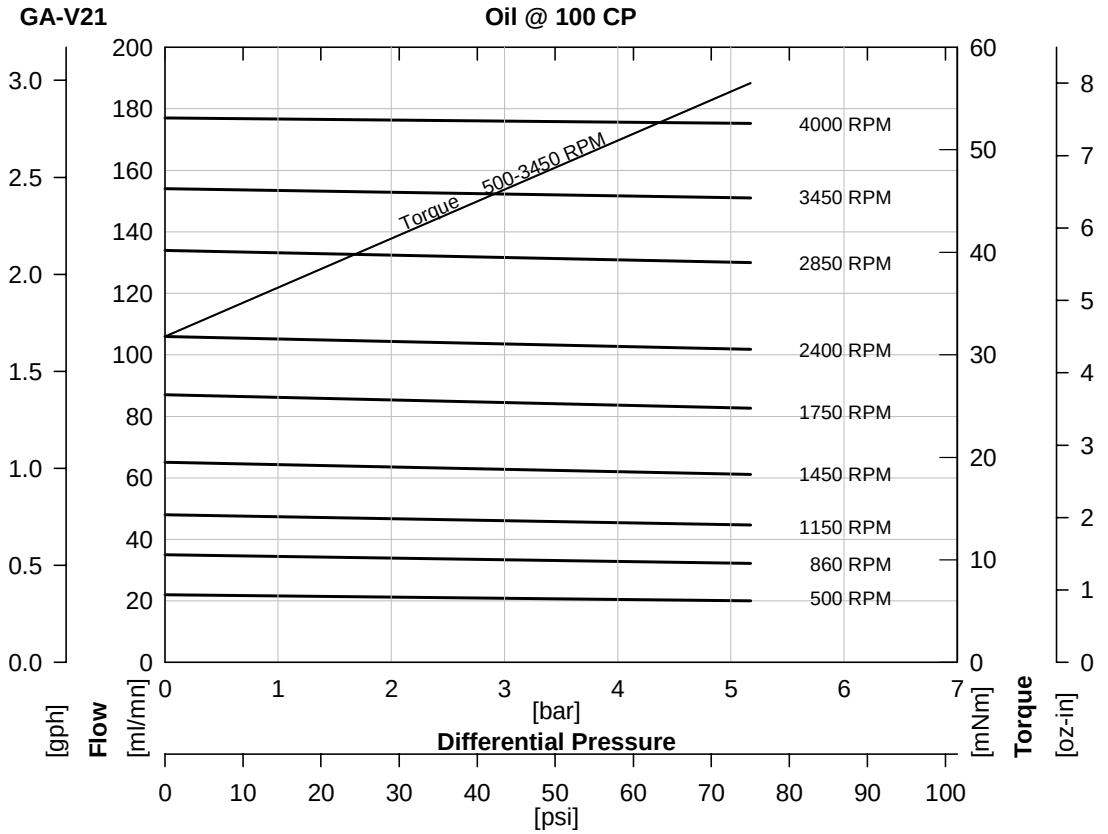
Base Code			Gear Set				Drive Mount	Options
G	A	-	V21	C				
1	2	3	4	5	6	7	8	

Model | Wetted Materials

O/C: Pump
S/K: Service Kit

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

Performance-High Viscosity



Watts=Torque [mNm] x Speed [RPM] / 9555

HP=Torque [oz-in] x Speed [RPM] / 1.008 x 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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Order Code

Base Code			Gear Set				Drive Mount	Options
G	A	-	V21	C				
1	2	3	4	5	6	7	8	

Model: 1–4 | Wetted Materials: 5–7

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)

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.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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Order Code

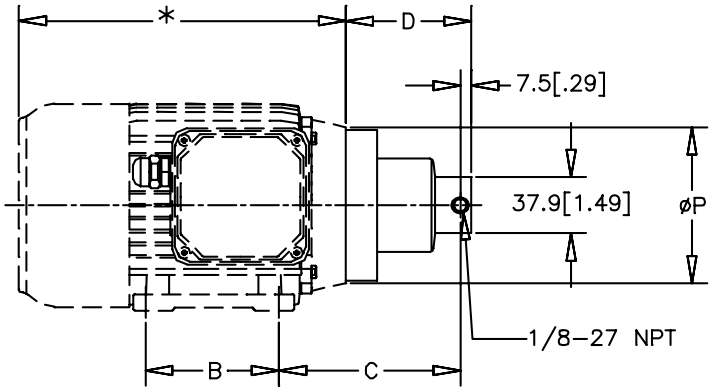
Base Code			Gear Set				Drive Mount	Options
G	A	-	V21	C			2/4/6	
1	2	3	4	5	6	7	8	

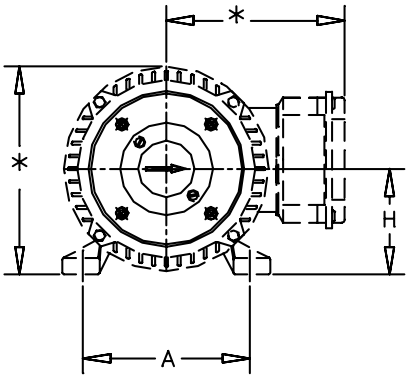
Model — Wetted Materials

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)

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:

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2. ALL DIMENSIONS ARE NOMINAL.

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Order Code

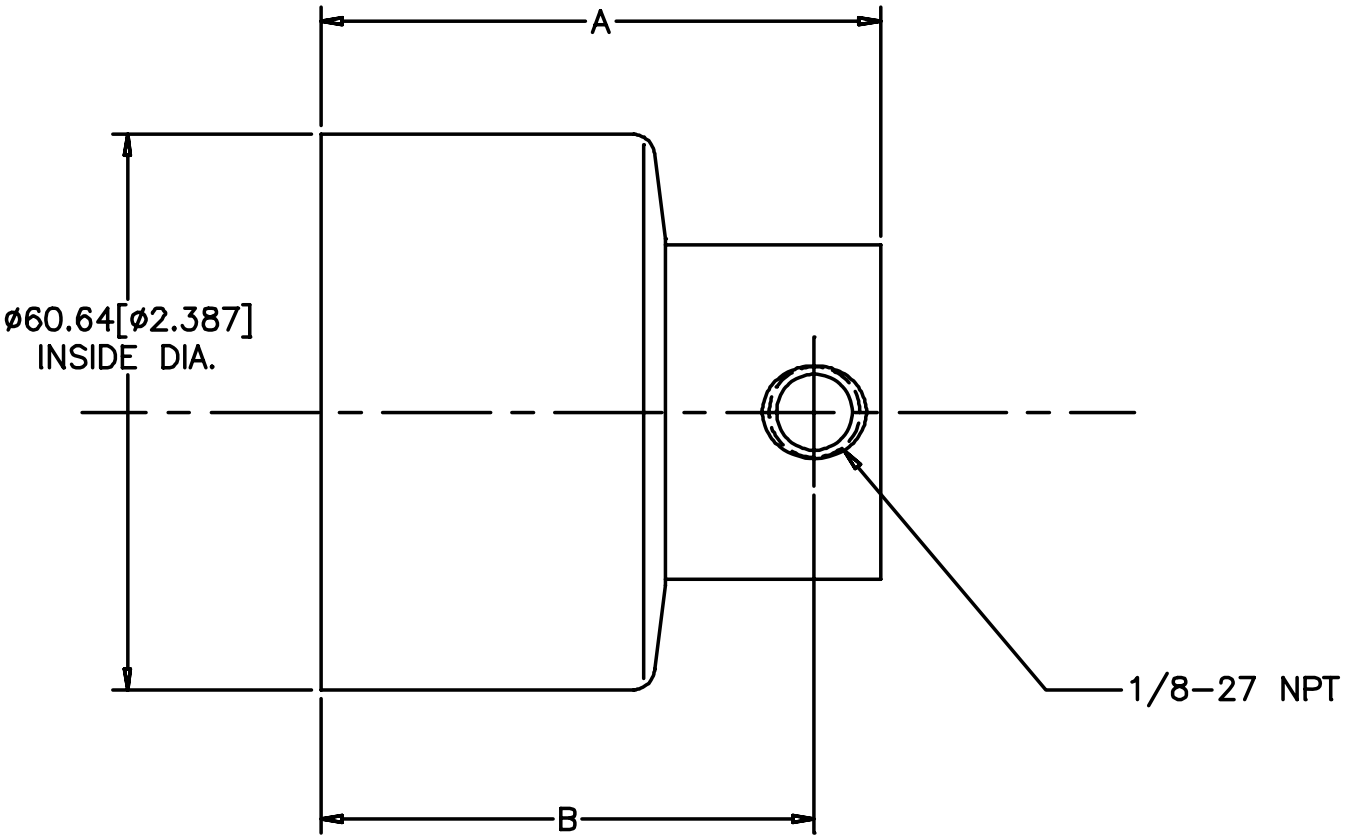
Base Code			Gear Set				Drive Mount	Options
G	A	-	V21	C			A/B	
1	2	3	4	5	6	7	8	

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

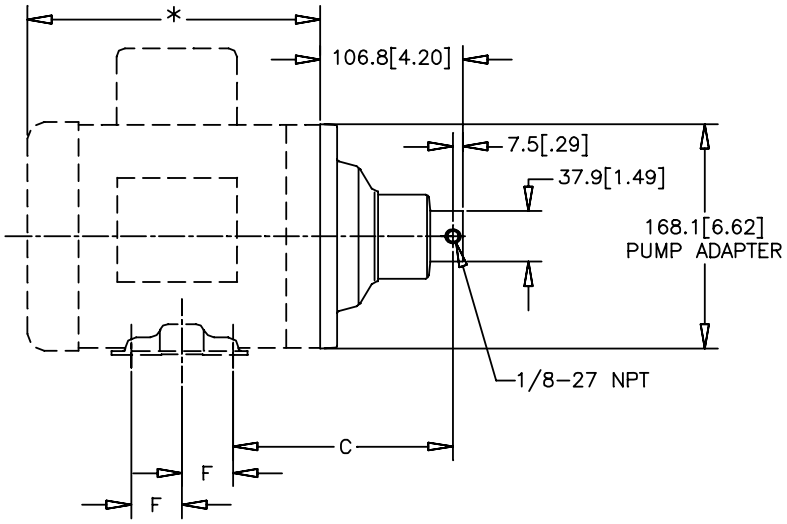
Base Code			Gear Set				Drive Mount	Options
G	A	-	V21	C			E	
1	2	3	4	5	6	7	8	

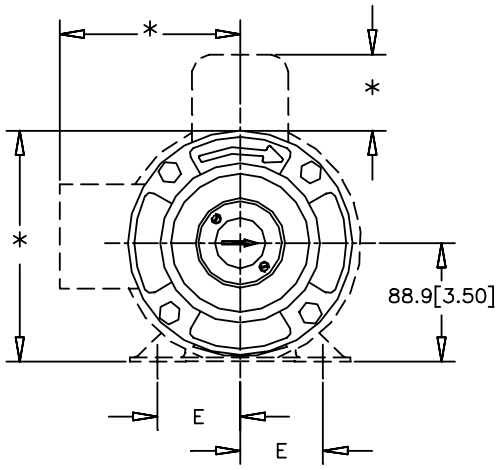
Model — Wetted Materials

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)

Dimensions





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

NOTES:

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Order Code

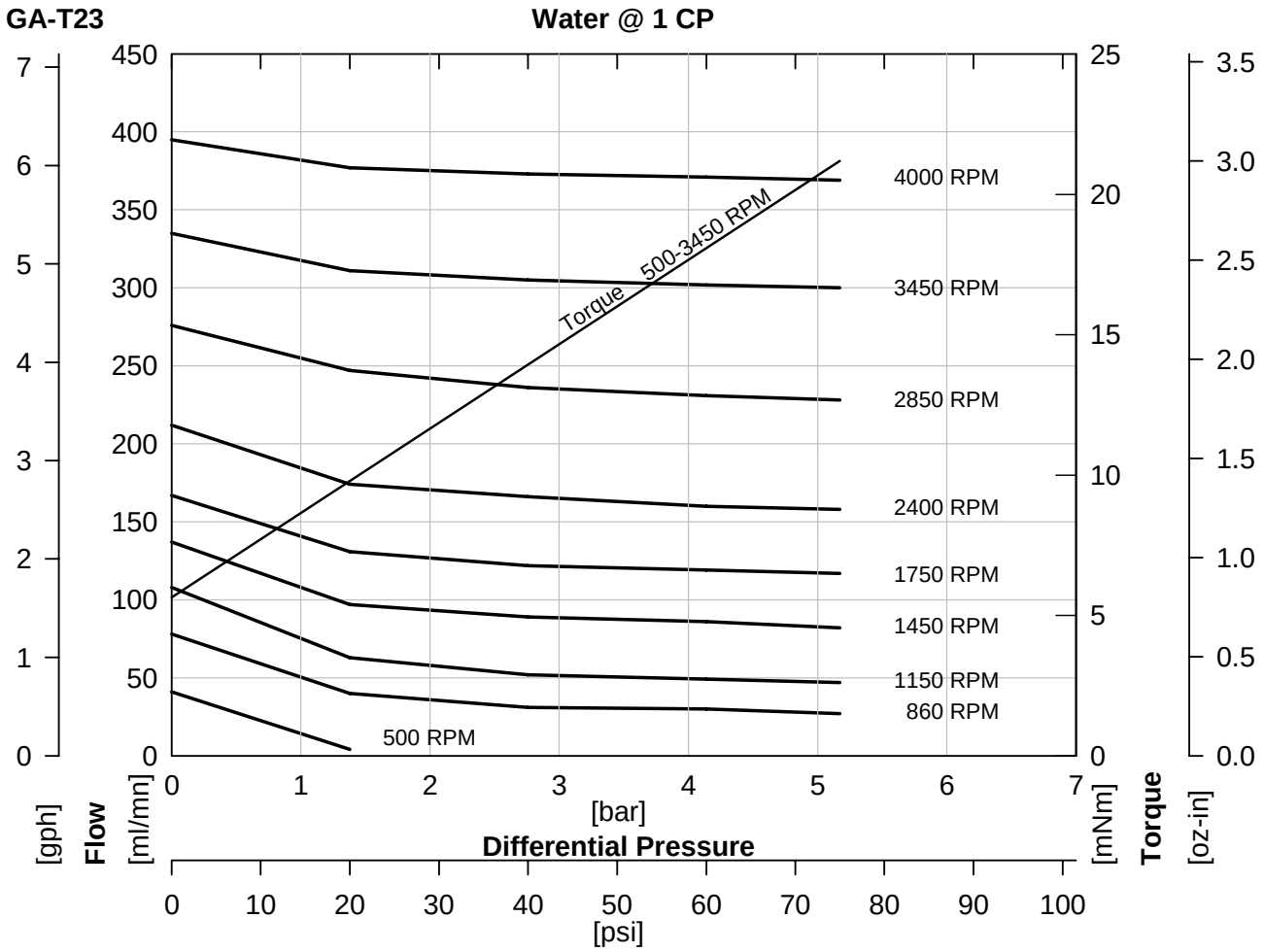
Base Code			Gear Set				Drive Mount	Options
G	A	-	T23					
1	2	3	4	5	6	7	8	

Model — Wetted Materials

O/C: Pump
S/K: Service Kit

Pump Construction
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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Order Code

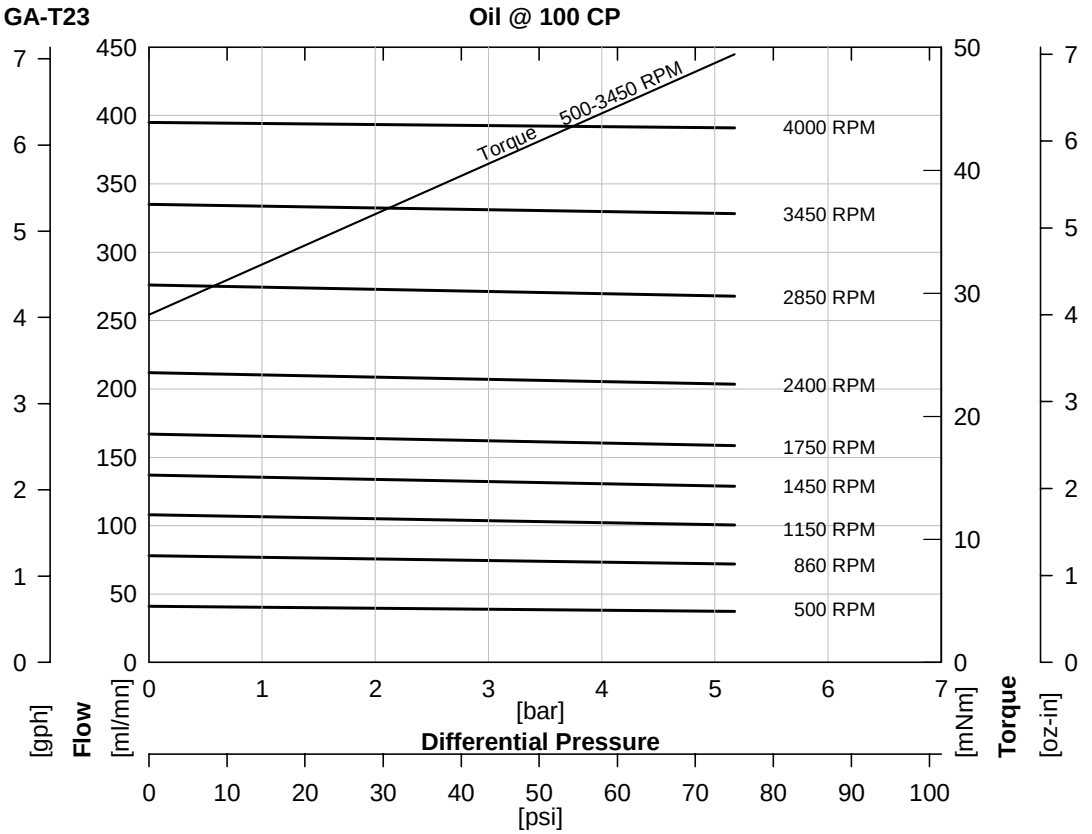
Base Code			Gear Set				Drive Mount	Options
G	A	-	T23					
1	2	3	4	5	6	7	8	

Model — Wetted Materials

O/C: Pump
S/K: Service Kit

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

Performance-High Viscosity



Watts = Torque [mNm] x Speed [RPM] / 9555

HP = Torque [oz-in] x Speed [RPM] / 1.008 x 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

Order Code

Base Code			Gear Set				Drive Mount	Options
G	A	-	T23					
1	2	3	4	5	6	7	8	

Model: 1–3 | Wetted Materials: 4–7

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)

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.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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Order Code

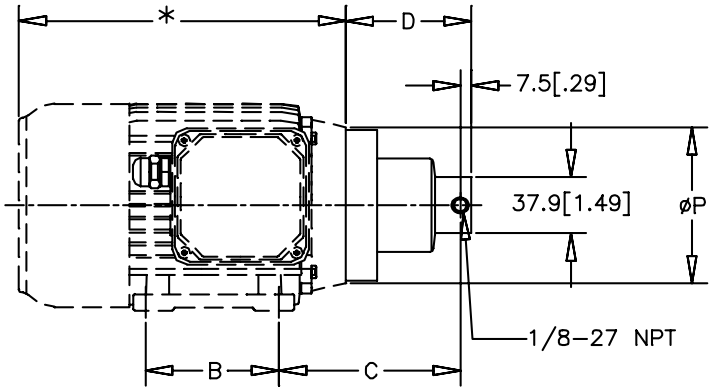
Base Code			Gear Set				Drive Mount	Options
G	A	-	T23				2/4/6	
1	2	3	4	5	6	7	8	

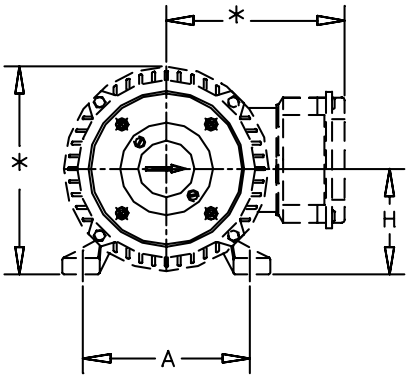
Model — Wetted Materials

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)

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:

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

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Order Code

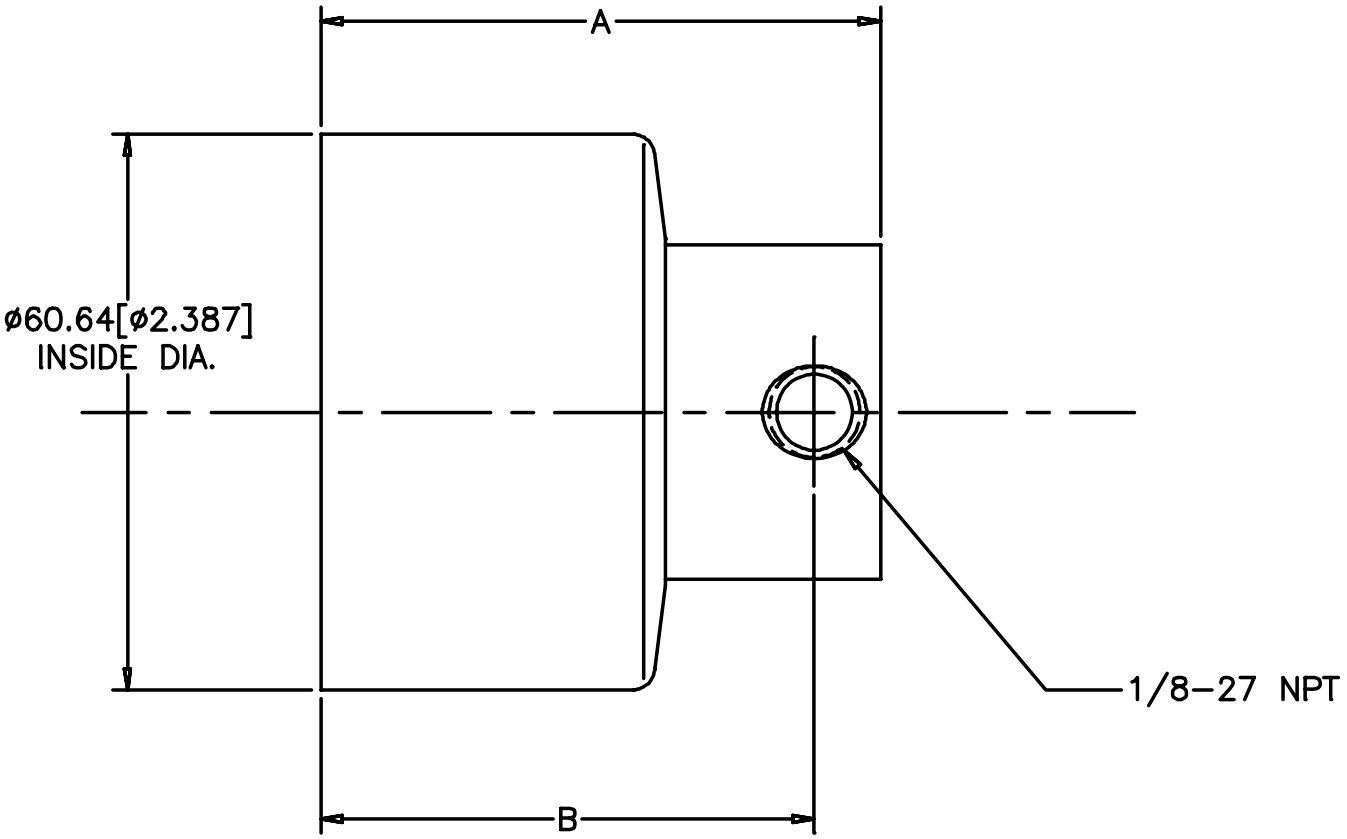
Base Code			Gear Set				Drive Mount	Options
G	A	-	T23				A/B	
1	2	3	4	5	6	7	8	

Model: 1 2 3 — Wetted Materials: 4 5 6 7 — Drive Mount: 8

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]

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Order Code

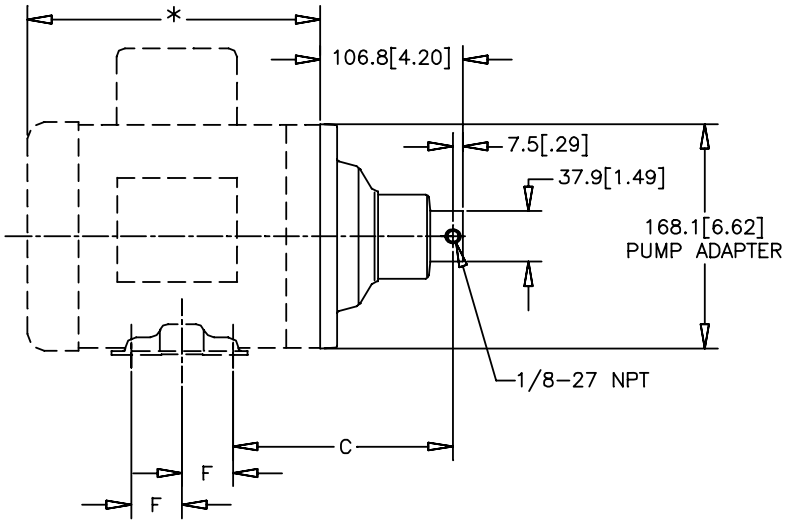
Base Code			Gear Set				Drive Mount	Options
G	A	-	T23				E	
1	2	3	4	5	6	7	8	

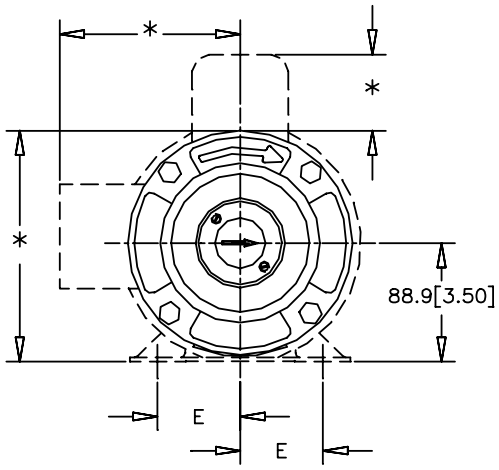
Model — Wetted Materials

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)

Dimensions





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

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