MICROPUMP®

Technical Data

Series GLH

Order Code

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

Model: 1–2 | Wetted Materials: 4–5 | Gear Set: 6 | Drive Mount: 7–8 | Options: 8

O/C: Pump
S/K: Service Kit

Pump Construction
Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

Product Options

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

	Code	Product Type	Specifications			Notes
1		**Product Type**				
	G	Gear Pump				
2		**Product Series**	*Max System Pressure (MAWP)*	*Ports*		
	LH	Series GLH	103 Bar (1500 psi)	3/4-14 (F) NPT Side Ports		
3		**Modifier**				
	-	Standard Design				
4		**Gear Set (Width/NºGears/Pitch)**	*Displacement*	*Max Differential Pressure*	*Driven Magnet (Standard)*	
	H25	1.250/2/12	7.7 ml/rev (2.0 gal/1000*rev)	6.9 Bar (100 psi)	Samarium Cobalt (SmCo)	
	H23	1.000/2/12	6.2 ml/rev (1.6 gal/1000*rev)	8.7 Bar (125 psi)	Samarium Cobalt (SmCo)	
	H21	0.750/2/12	4.6 ml/rev (1.2 gal/1000*rev)	8.7 Bar (125 psi)	Samarium Cobalt (SmCo)	
5		**Gear Material**		*Max Differential Pressure*	*Temp Range*	
	J	PEEK (carbon fiber/ptfe)		8.7 Bar (125 psi)	-46/121°C (-50/250°F)	
	F	PTFE		3.5 Bar (50 psi)	-46/54°C (-50/130°F)	1
6		**Static Seals**			*Temp Range*	
	V	Viton®			-29/204°C (-20/400°F)	
	F	PTFE			-46/232°C (-50/450°F)	
7		**Base Materials**				
	S	SS316				
8		**Drive Mount**	*Max System Pressure (MAWP)*		*Weight (Pumphead)*	
	E	NEMA 56C/143/145TC	103 Bar (1500 psi)		3.9 kg (8.6 lbs)	
	6,8	IEC 71-B14 - IEC 80-B14	103 Bar (1500 psi)		3.9 kg (8.6 lbs)	

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

	Driven Magnet (PC12)	*Temp Range*	
M2	SmCo Laser-Welded Driven (Segments)	-46/260°C (-50/500°F)	
	Driving Magnet (PC13)	*Temp Range*	
N0	Ferrite Driving	-46/99°C (-50/210°F)	2
N3	NdFeB Driving (Ring)	-46/82°C (-50/180°F)	2
N1	SmCo Driving (Segments)	-46/260°C (-50/500°F)	2
	High System Pressure (PC14)		
CH15	103 Bar (1500 psi) Max System Pressure (MAWP)		

Notes
1 PTFE gears come standard with Rulon® bushings
2 Driving Magnet (Hub) Sold Separately

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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Mod. 01 del ../../24

MICROPUMP®

Technical Data

Series GLH

Order Code

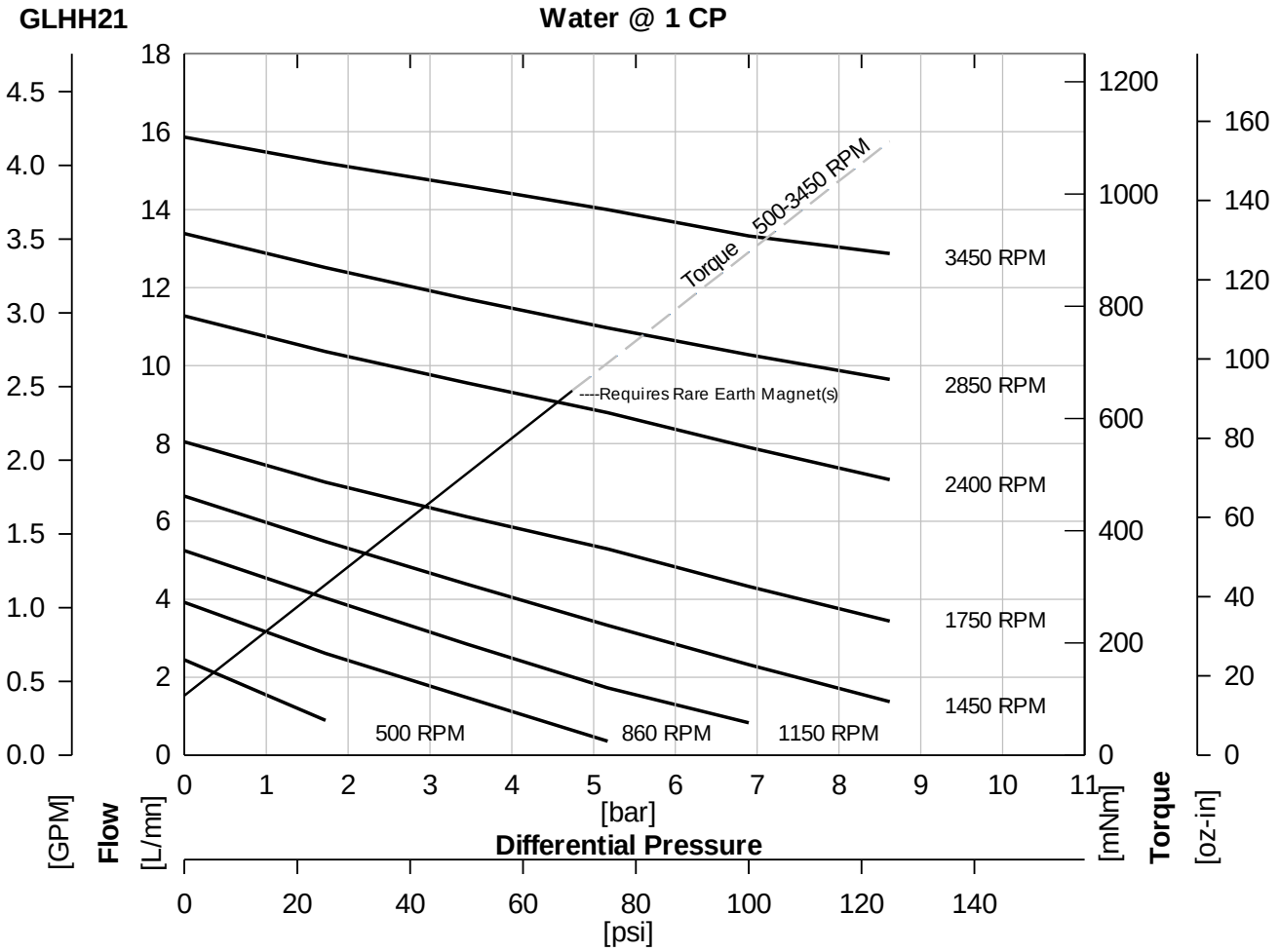
Base Code			Gear Set			Drive Mount		Options
G	LH	-	H21					
1	2	3	4	5	6	7	8	

Model | Wetted Materials

O/C: Pump
S/K: Service Kit

Pump Construction
Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

Performance



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CEME ULKA
ACE
MICROPUMP
PROCON

MICROPUMP®

Technical Data

Series GLH

Order Code

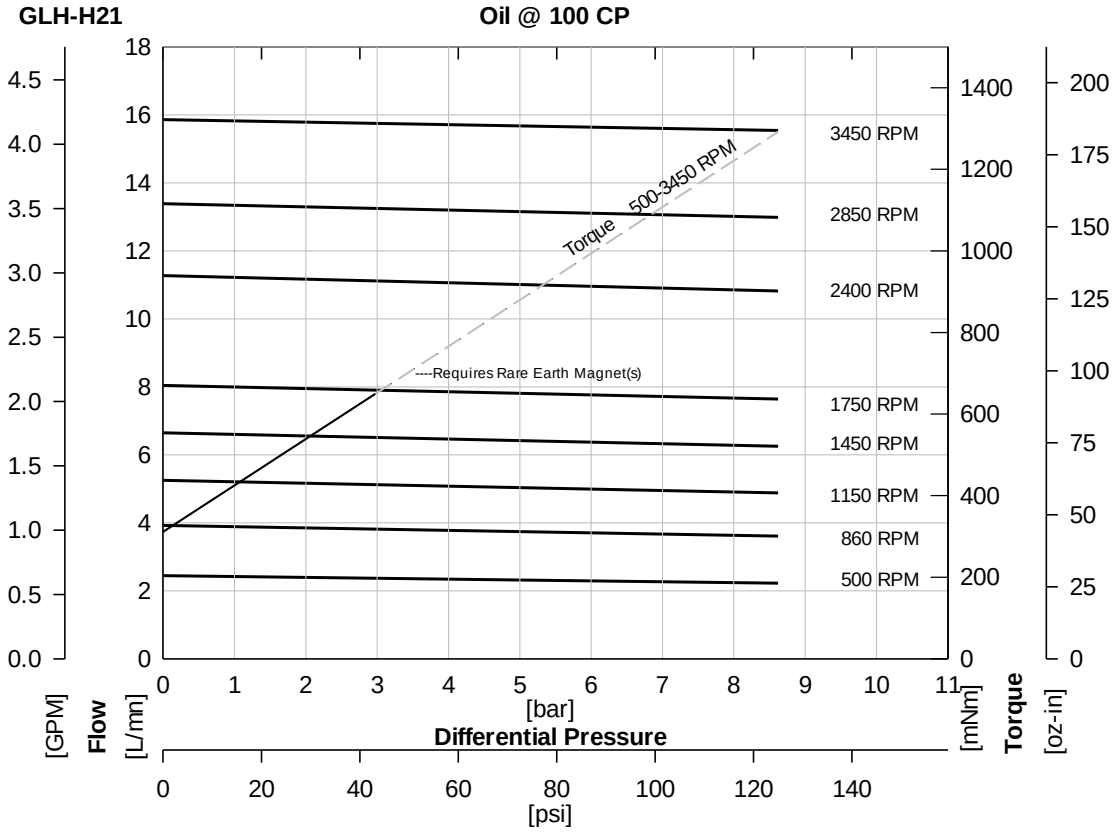
Base Code			Gear Set				Drive Mount	Options
G	LH	-	H21					
1	2	3	4	5	6	7	8	

Model | Wetted Materials

O/C: Pump
S/K: Service Kit

Pump Construction
Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

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	2500
Max Speed [RPM]		3450	3450	1750
[Bar]	[psi]			
0.3	5	0.3	1	3.8
1.4	20	0.5	1	2.9
2.8	40	0.7	1	2.3
4.1	60	0.7	1	2.0
5.5	80	0.8	1	1.8
6.9	100	0.8	1	1.6
8.6	125	0.8	1	1.5

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
SmCo	Ferrite	1222	173
SmCo	SmCo	1483	210
SmCo	NdFeB	1780	252

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MICROPUMP®

Technical Data

Series GLH

Order Code

Base Code			Gear Set				Drive Mount	Options
G	LH	-	H21					
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
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

Specifications

	SI	US
Displacement	4.6 ml/rev	1.2 gal/1000*rev
Max Flow (4 Pole Speed)	6.7 L/mn 1450 RPM (50Hz)	2.2 gal/mn 1750 RPM (60Hz)
Max Flow (2 Pole Speed)	13.2 L/mn 2850 RPM (50Hz)	4.2 gal/mn 3450 RPM (60Hz)
Max Differential Pressure [1]	8.7 Bar	125 psi
Max System Pressure (MAWP)	103 Bar	1500 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 2500 cp	0.2 to 2500 cp
Max Speed	3,450 RPM	3,450 RPM
Rotation (Facing Motor Shaft)	CW	CW
Weight (Pumphead)	3.9 kg	8.6 lbs
Dimensions (LxWxH)	See Drawing	See Drawing
Ports	3/4-14 (F) NPT Side Ports	3/4-14 (F) NPT Side Ports
Driven Magnet (Standard)	Samarium Cobalt (SmCo)	Samarium Cobalt (SmCo)
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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MICROPUMP®

Technical Data

Series GLH

Order Code

Base Code			Gear Set				Drive Mount	Options
G	LH	-	H21					
1	2	3	4	5	6	7	8	

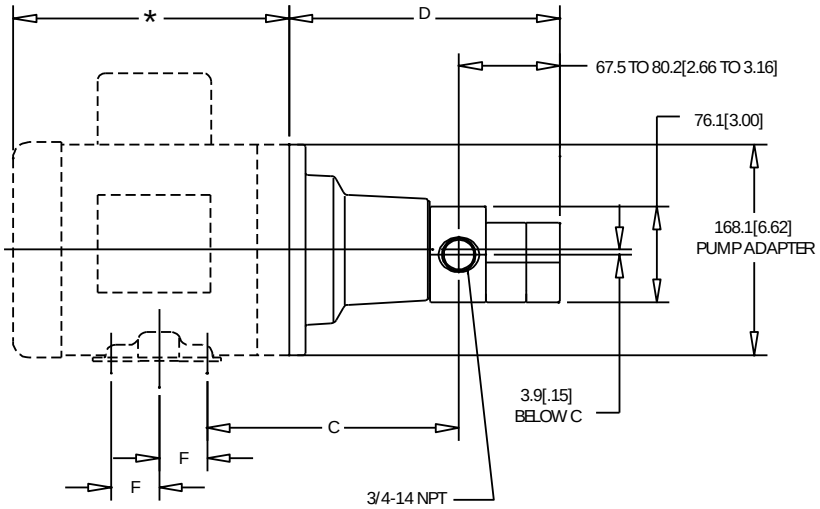
Model: 1–4 | Wetted Materials: 5–7

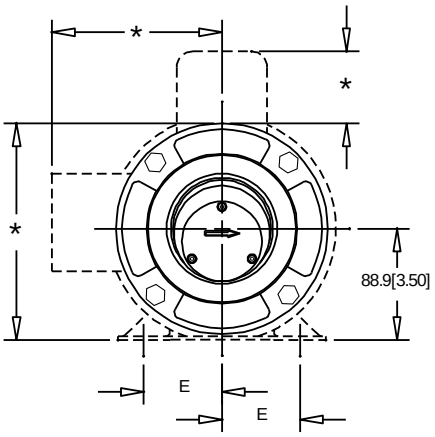
O/C: Pump
S/K: Service Kit

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

Dimensions





MOUNT	C mm [in]	D mm [in]	E mm [in]	F mm [in]
E NEMA 56C	199.8 [7.87]	201.9[7.95] TO 214.7[8.45]	61.9 [2.44]	38.1 [1.50]
K NEMA 143 TC	195.0 [7.68]	201.9[7.95] TO 214.7[8.45]	69.9 [2.75]	50.8 [2.00]
K NEMA 145 TC	195.0 [7.68]	201.9[7.95] TO 214.7[8.45]	69.9 [2.75]	63.5 [2.50]

NOTES:

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MICROPUMP®

Technical Data — Series GLH

Order Code

Base Code			Gear Set				Drive Mount	Options
G	LH	-	H21				6	
1	2	3	4	5	6	7	8	

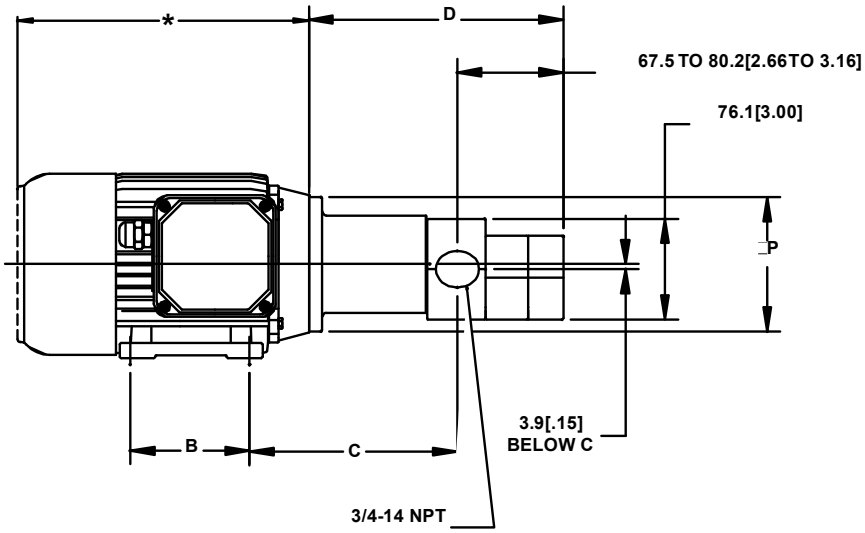
Model: 1–4 | Wetted Materials: 5–7

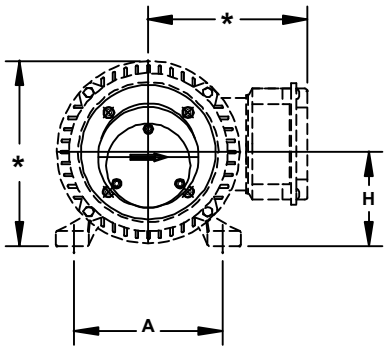
O/C: Pump
S/K: Service Kit

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

Dimensions





MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
6 IEC71B14B3	112 [4.41]	90 [3.54]	157.2 [6.19]	179.7[7.07] TO 192.4[7.57]	71 [2.80]	105 [4.13]
8 IEC80B14B3	125 [4.92]	100 [3.94]	172.1 [6.77]	189.6[7.46] TO 202.3[7.96]	80 [3.15]	120 [4.72]

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CEME ULKA ACE MICROPUMP PROCON

MICROPUMP®

Technical Data

Series GLH

Order Code

Base Code			Gear Set				Drive Mount	Options
G	LH	-	H23					
1	2	3	4	5	6	7	8	

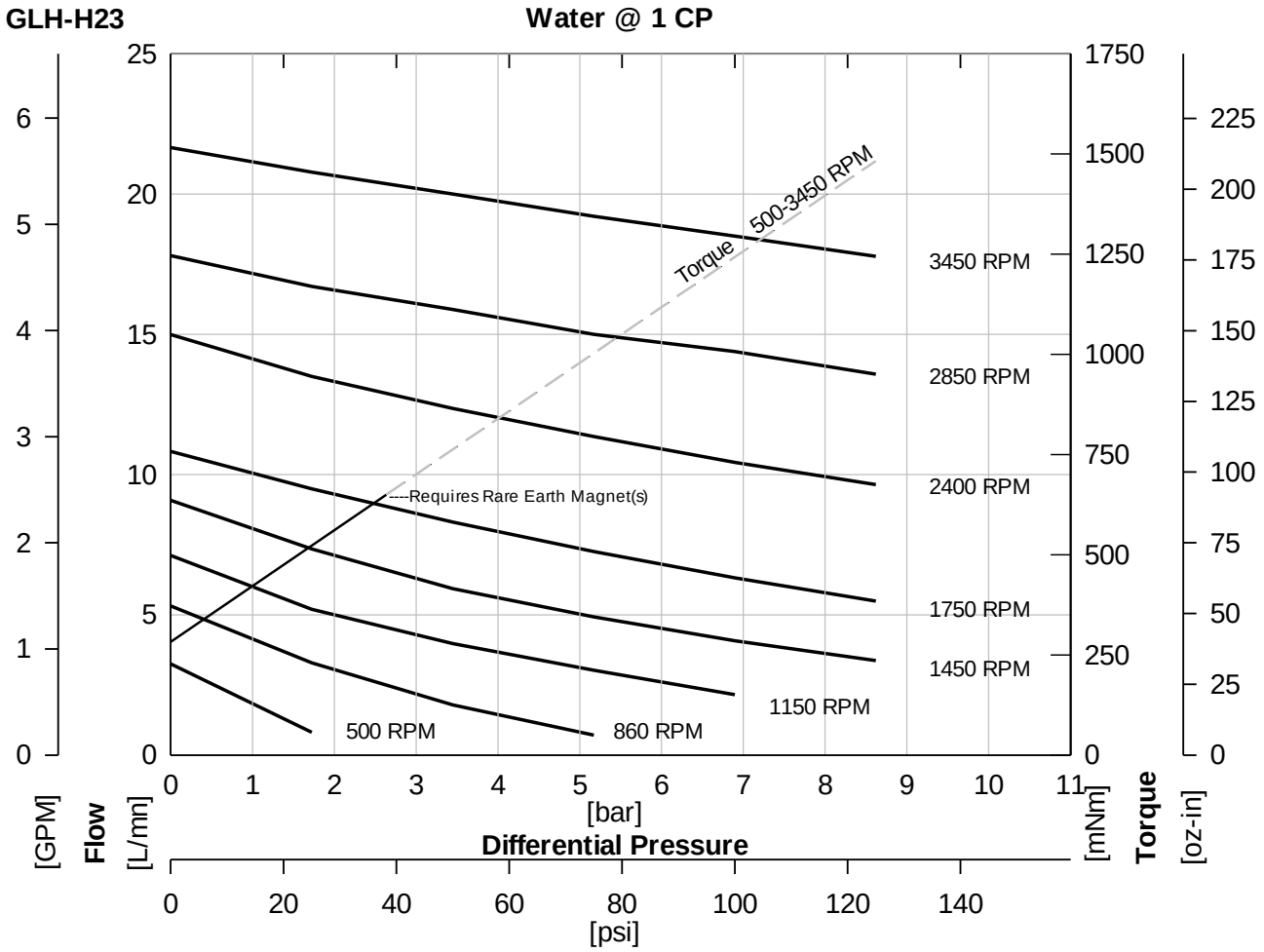
Model | Wetted Materials

O/C: Pump
S/K: Service Kit

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

Performance



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MICROPUMP®

Technical Data

Series GLH

Order Code

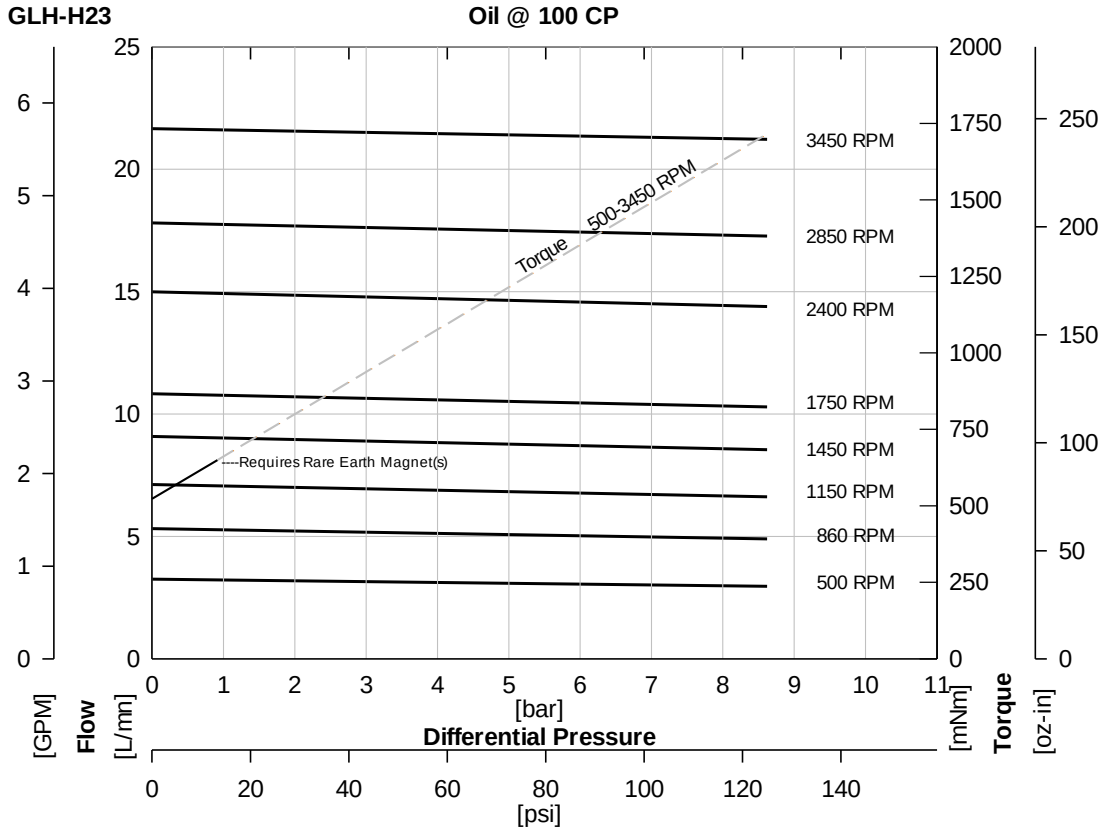
Base Code			Gear Set				Drive Mount	Options
G	LH	-	H23					
1	2	3	4	5	6	7	8	

Model | Wetted Materials

O/C: Pump
S/K: Service Kit

Pump Construction
Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

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	2500
Max Speed [RPM]		3450	3450	1750
[Bar]	[psi]			
0.3	5	0.5	1	2.8
1.4	20	0.6	1	2.3
2.8	40	0.7	1	2.0
4.1	60	0.8	1	1.8
5.5	80	0.8	1	1.6
6.9	100	0.8	1	1.5
8.6	125	0.9	1	1.4

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
SmCo	Ferrite	1222	173
SmCo	SmCo	1483	210
SmCo	NdFeB	1780	252

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CEME ULKA ACE MICROPUMP PROCON

MICROPUMP®

Technical Data Series GLH

Order Code

Base Code			Gear Set				Drive Mount	Options
G	LH	-	H23					
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
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

Specifications

		SI	US
Displacement		6.2 ml/rev	1.6 gal/1000*rev
Max Flow (4 Pole Speed)		9.0 L/mn 1450 RPM (50Hz)	2.9 gal/mn 1750 RPM (60Hz)
Max Flow (2 Pole Speed)		17.7 L/mn 2850 RPM (50Hz)	5.7 gal/mn 3450 RPM (60Hz)
Max Differential Pressure	1	8.7 Bar	125 psi
Max System Pressure (MAWP)		103 Bar	1500 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 2500 cp	0.2 to 2500 cp
Max Speed		3,450 RPM	3,450 RPM
Rotation (Facing Motor Shaft)		CW	CW
Weight (Pumphead)		3.9 kg	8.6 lbs
Dimensions (LxWxH)		See Drawing	See Drawing
Ports		3/4-14 (F) NPT Side Ports	3/4-14 (F) NPT Side Ports
Driven Magnet (Standard)		Samarium Cobalt (SmCo)	Samarium Cobalt (SmCo)
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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Technical Data

Series GLH

Order Code

Base Code			Gear Set				Drive Mount	Options
G	LH	-	H23					
1	2	3	4	5	6	7	8	

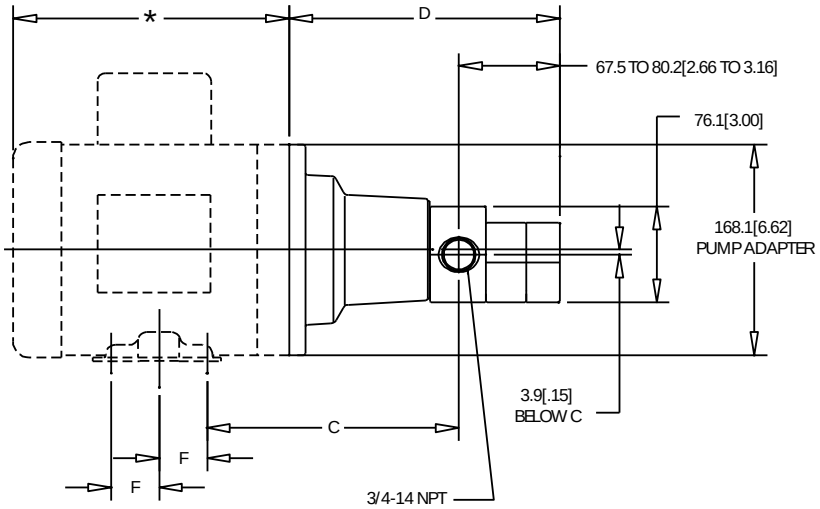
Model: 1–2 | Wetted Materials: 4–7

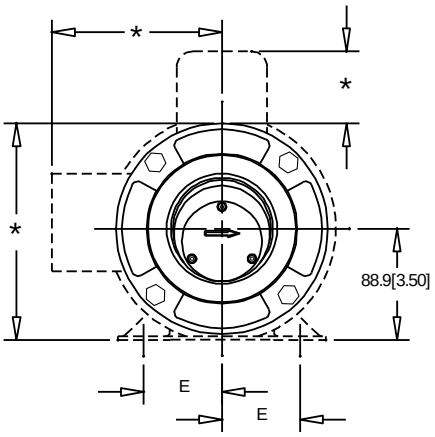
O/C: Pump
S/K: Service Kit

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

Dimensions





MOUNT	C mm [in]	D mm [in]	E mm [in]	F mm [in]
E NEMA 56C	199.8 [7.87]	201.9[7.95] TO 214.7[8.45]	61.9 [2.44]	38.1 [1.50]
K NEMA 143 TC	195.0 [7.68]	201.9[7.95] TO 214.7[8.45]	69.9 [2.75]	50.8 [2.00]
K NEMA 145 TC	195.0 [7.68]	201.9[7.95] TO 214.7[8.45]	69.9 [2.75]	63.5 [2.50]

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MICROPUMP®

Technical Data — Series GLH

Order Code

Base Code			Gear Set				Drive Mount	Options
G	LH	-	H23				6	
1	2	3	4	5	6	7	8	

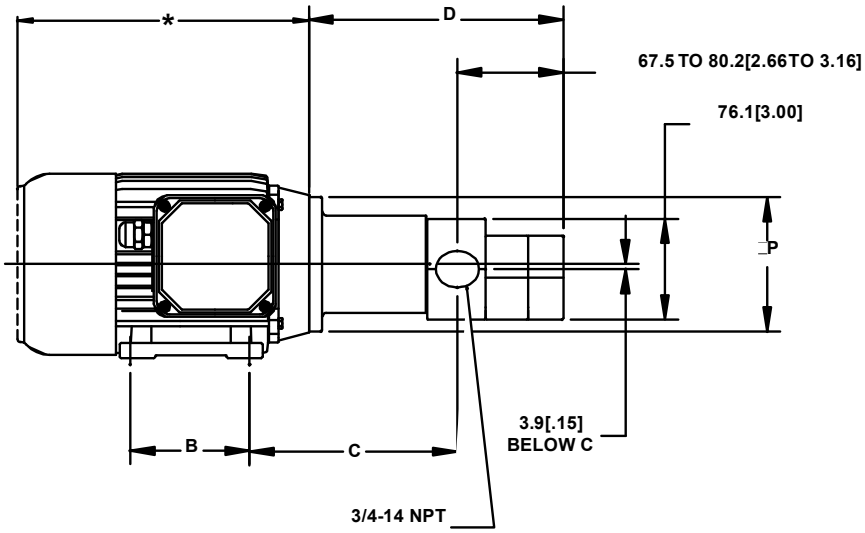
Model: 1–4 | Wetted Materials: 5–7

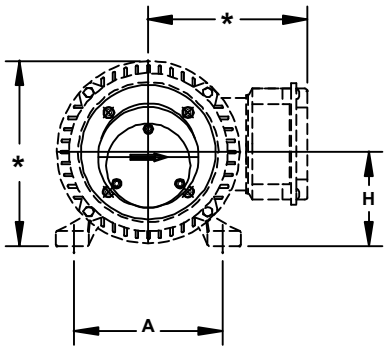
O/C: Pump
S/K: Service Kit

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

Dimensions





MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
6 IEC71B14B3	112 [4.41]	90 [3.54]	157.2 [6.19]	179.7[7.07] TO 192.4[7.57]	71 [2.80]	105 [4.13]
8 IEC80B14B3	125 [4.92]	100 [3.94]	172.1 [6.77]	189.6[7.46] TO 202.3[7.96]	80 [3.15]	120 [4.72]

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Nogales, Sonora, C.P. 84094

Mda Business Park, Irishtown,
Mountmellick, Co. Laois, R32 XYK6, Ireland

VAT GB975036992

Mod. 01 del ../../24

Rev 3 9/15/2025

CEME ULKA ACE MICROPUMP PROCON

MICROPUMP®

Technical Data

Series GLH

Order Code

Base Code			Gear Set				Drive Mount	Options
G	LH	-	H25					
1	2	3	4	5	6	7	8	

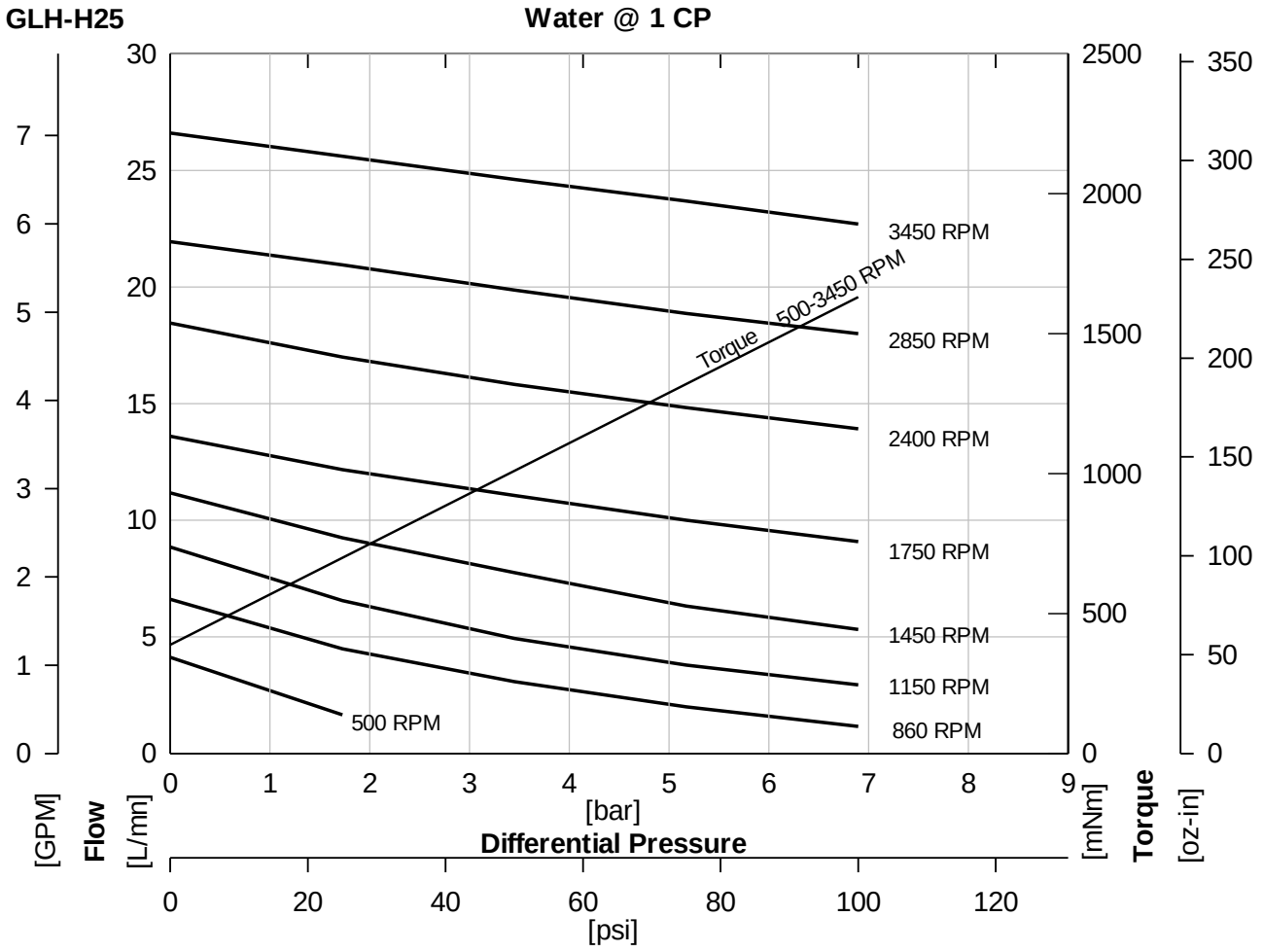
Model | Wetted Materials

O/C: Pump
S/K: Service Kit

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

Performance



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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4600 NW Camas Meadows Suite 200
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www.micropump.com
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Pump Construction

Magnetic Drive Gear Pump
Cavity Style
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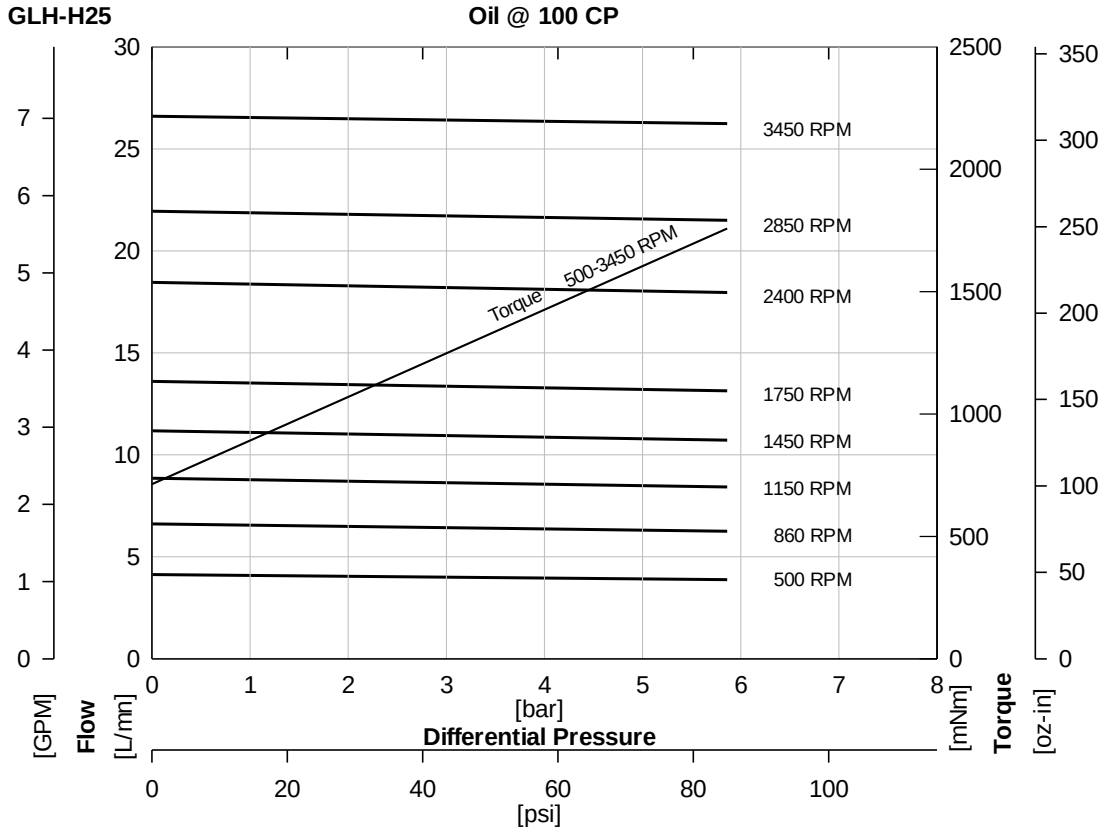
Performance-High Viscosity



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	2500
Max Speed [RPM]		3450	3450	1750
[Bar]	[psi]			
0.3	5	0.5	1	2.3
1.4	20	0.6	1	2.0
2.8	40	0.7	1	1.8
4.1	60	0.8	1	1.6
5.5	80	0.8	1	1.5
6.9	100	0.8	1	1.4
8.6	125	0.9	1	1.3

Magnet Decouple Torque			
Driven Magnet	Driving Hub	Torque [mNm]	Torque [oz.in]
SmCo	Ferrite	1222	173
SmCo	SmCo	1483	210
SmCo	NdFeB	1780	252

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G	LH	-	H25					
1	2	3	4	5	6	7	8	

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

O/C: Pump
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Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

Specifications

		SI	US
Displacement		7.7 ml/rev	2.0 gal/1000*rev
Max Flow (4 Pole Speed)		11.2 L/mn 1450 RPM (50Hz)	3.6 gal/mn 1750 RPM (60Hz)
Max Flow (2 Pole Speed)		22.0 L/mn 2850 RPM (50Hz)	7.1 gal/mn 3450 RPM (60Hz)
Max Differential Pressure	1	6.9 Bar	100 psi
Max System Pressure (MAWP)		103 Bar	1500 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 2500 cp	0.2 to 2500 cp
Max Speed		3,450 RPM	3,450 RPM
Rotation (Facing Motor Shaft)		CW	CW
Weight (Pumphead)		3.9 kg	8.6 lbs
Dimensions (LxWxH)		See Drawing	See Drawing
Ports		3/4-14 (F) NPT Side Ports	3/4-14 (F) NPT Side Ports
Driven Magnet (Standard)		Samarium Cobalt (SmCo)	Samarium Cobalt (SmCo)
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

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G	LH	-	H25					
1	2	3	4	5	6	7	8	

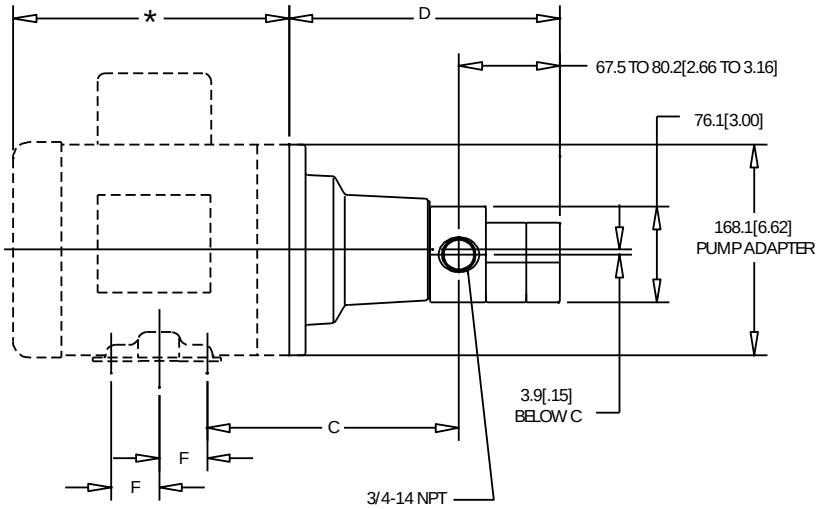
Model: 1–4 | Wetted Materials: 5–8

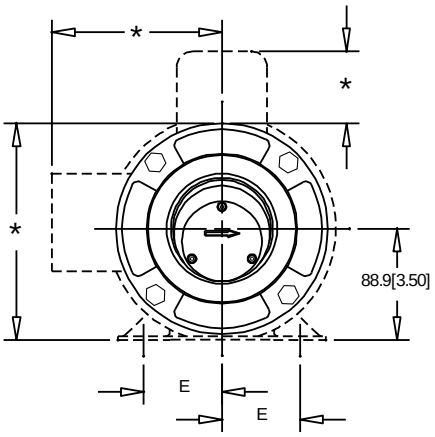
O/C: Pump
S/K: Service Kit

Pump Construction

Magnetic Drive Gear Pump
Cavity Style
Two Helical, Shafted Gears/DP12
Sleeve Bushings
O-Ring Seals (Qty 3)

Dimensions





MOUNT	C mm [in]	D mm [in]	E mm [in]	F mm [in]
E NEMA 56C	199.8 [7.87]	201.9[7.95] TO 214.7[8.45]	61.9 [2.44]	38.1 [1.50]
K NEMA 143 TC	195.0 [7.68]	201.9[7.95] TO 214.7[8.45]	69.9 [2.75]	50.8 [2.00]
K NEMA 145 TC	195.0 [7.68]	201.9[7.95] TO 214.7[8.45]	69.9 [2.75]	63.5 [2.50]

NOTES:

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

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Technical Data — Series GLH

Order Code

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

Model: 1–4 | Wetted Materials: 5–7

O/C: Pump
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Pump Construction

Magnetic Drive Gear Pump
Cavity Style
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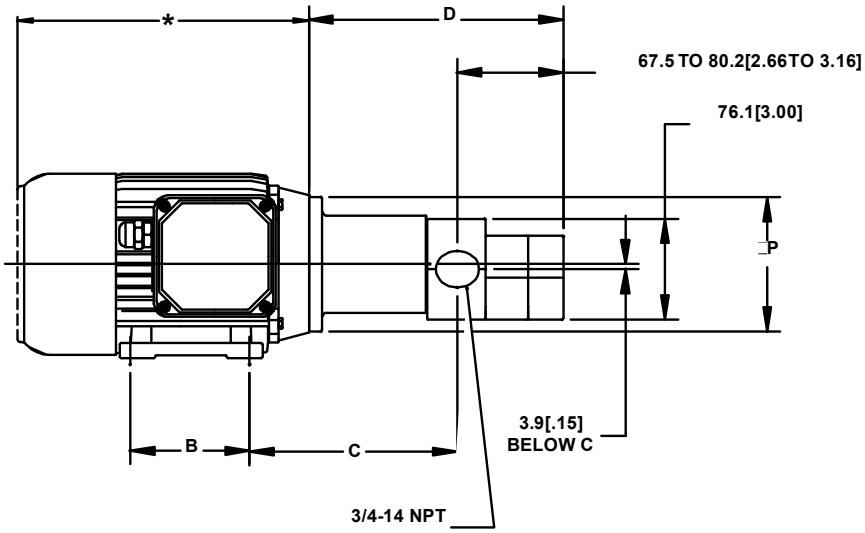
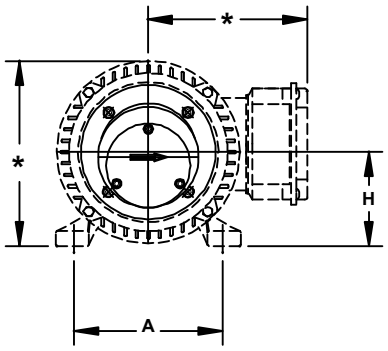
Dimensions





MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
6 IEC71B14B3	112 [4.41]	90 [3.54]	157.2 [6.19]	179.7[7.07] TO 192.4[7.57]	71 [2.80]	105 [4.13]
8 IEC80B14B3	125 [4.92]	100 [3.94]	172.1 [6.77]	189.6[7.46] TO 202.3[7.96]	80 [3.15]	120 [4.72]

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