MICROPUMP
IDEX HEALTH & SCIENCE

# Series Overview

# Series GLH

**Order Code**

| Base Code | | Gear Set | | | | Drive Mount | Options |
|---|---|---|---|---|---|---|---|
| G | LH | | | | | | |
| 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)

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

Notes
1 Magnetic Drive Hub Sold Separately

**PRICES ARE FOB/EX-WORKS FACTORY - Prices shown are the Manufacturer's Suggested List Price and are subject to change without notice.**

**USA: Micropump, Inc. • Phone +360.253.2008 •**



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

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MICROPUMP
IDEX HEALTH & SCIENCE

# *Technical Data* Series GLH

***Order Code***

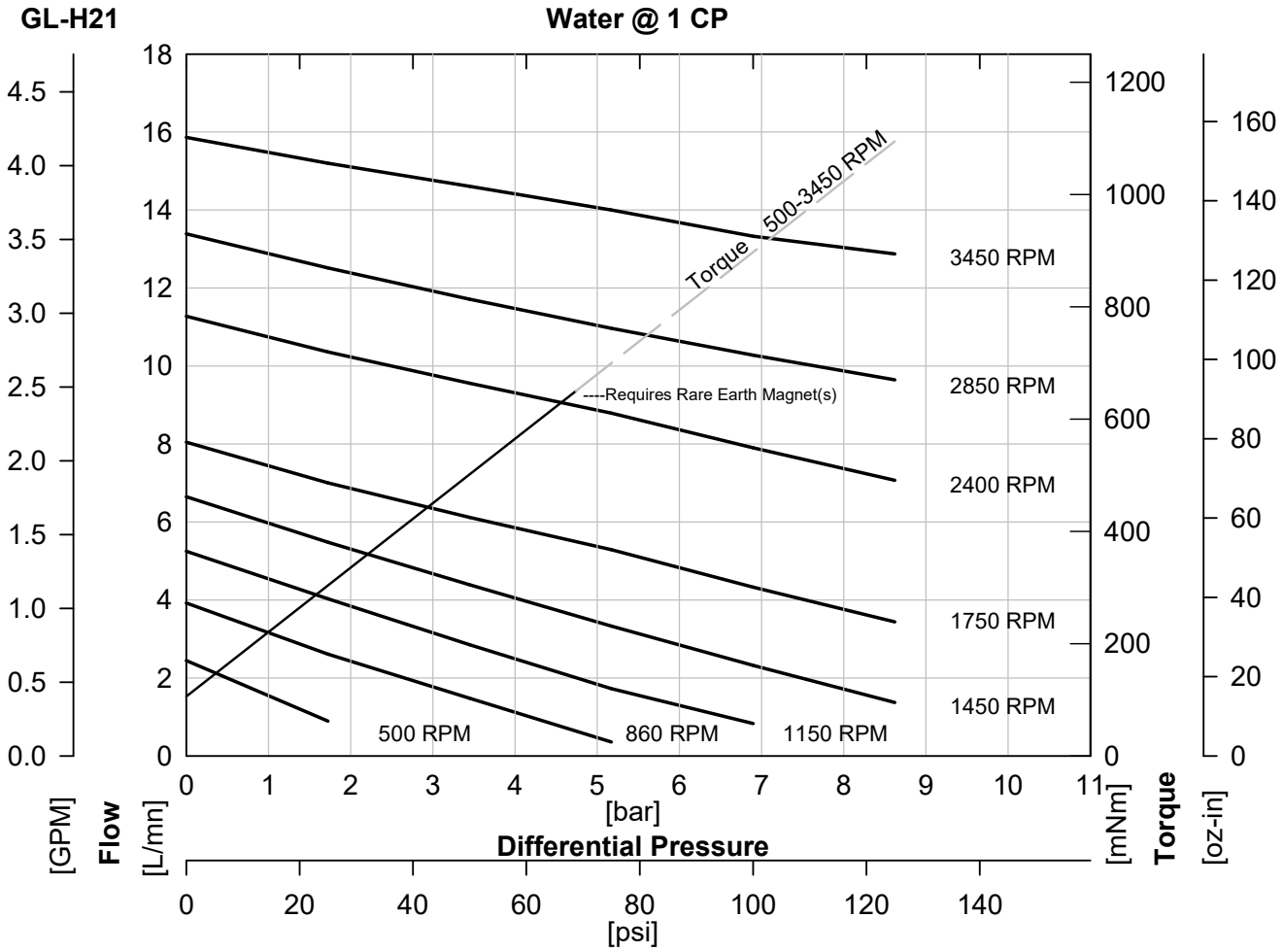
| Base Code | | | Gear Set | | | | Drive Mount | Options |
|---|---|---|---|---|---|---|---|---|
| G | LH | - | H21 | | | | 6 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

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)

## Performance





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***Order Code***

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

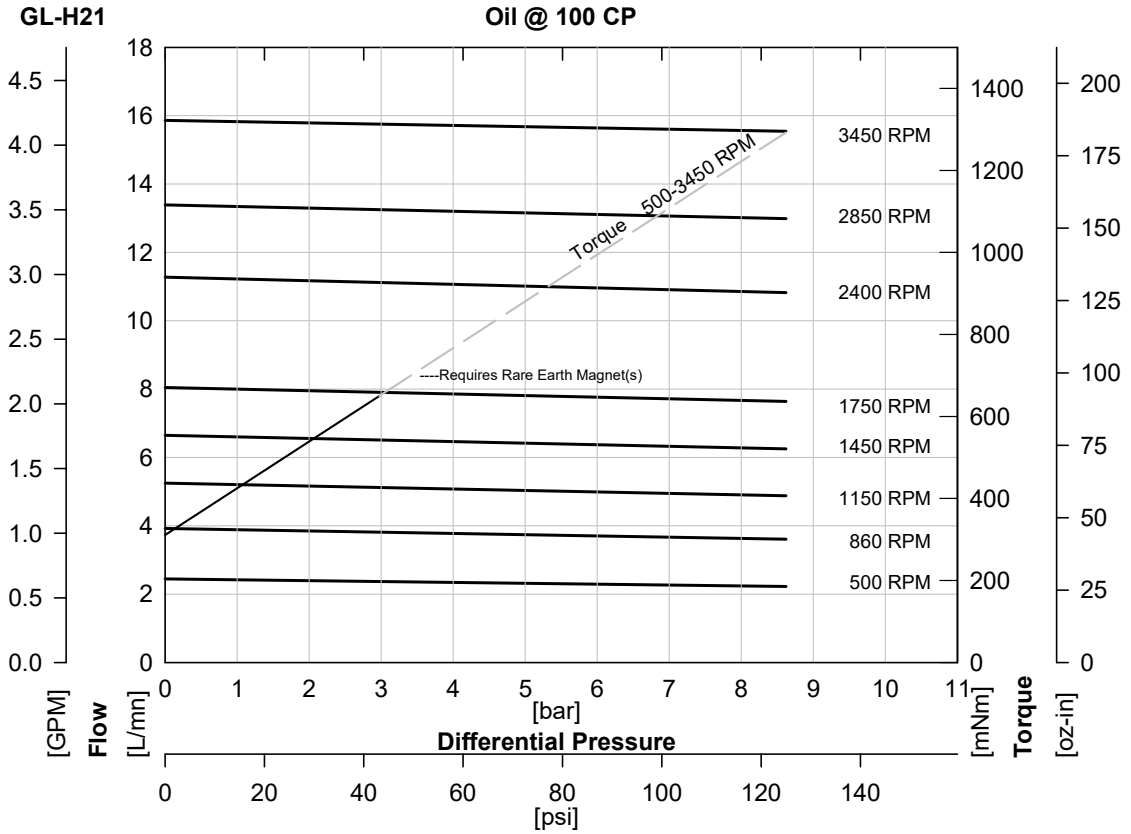
Model | Wetted Materials

O/C: Pump
S/K: Service Kit

**Pump Construction**

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

## Performance-High Viscosity




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

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

To calculate torque, multiply correction factor by torque from viscosity curve above.

| Torque Correction Factors: For Higher Viscosity Liquids | | | | |
|---|---|---|---|---|
| | Viscosity [cp] | 1 | 100 | 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] |
| Ferrite | Ferrite | 643 | 91 |
| Ferrite | SmCo | 819 | 116 |
| Ferrite | NdFeB | 1073 | 152 |
| SmCo | Ferrite | 1222 | 173 |
| SmCo | SmCo | 1483 | 210 |
| SmCo | NdFeB | 1780 | 252 |
| NdFeB | Ferrite | 1921 | 272 |
| NdFeB | SmCo | 2634 | 373 |
| NdFeB | NdFeB | 3298 | 467 |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***Order Code***

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

Model: 1–3 | 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.

**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***

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

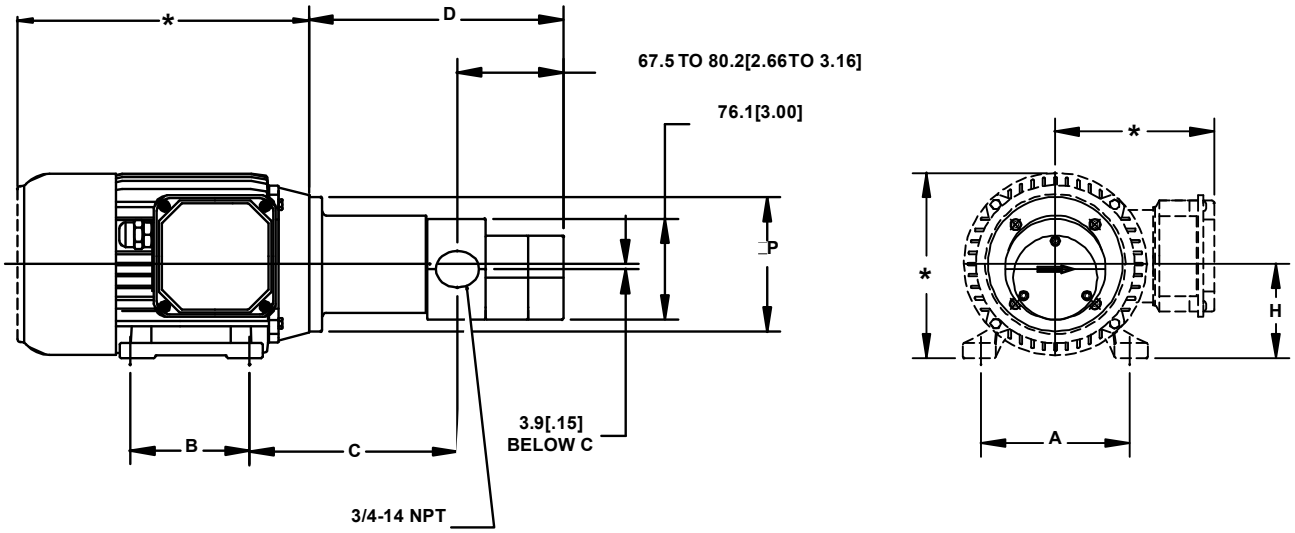
Model: 1–4 | Wetted Materials: 5–7

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] |

**NOTES:**

**1. *THESE DIMENSIONS WIL VARY BASED ON MOTOR SELECTION.**
**2. ALL DIMENSIONSARE NOMINAL.**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***Order Code***

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

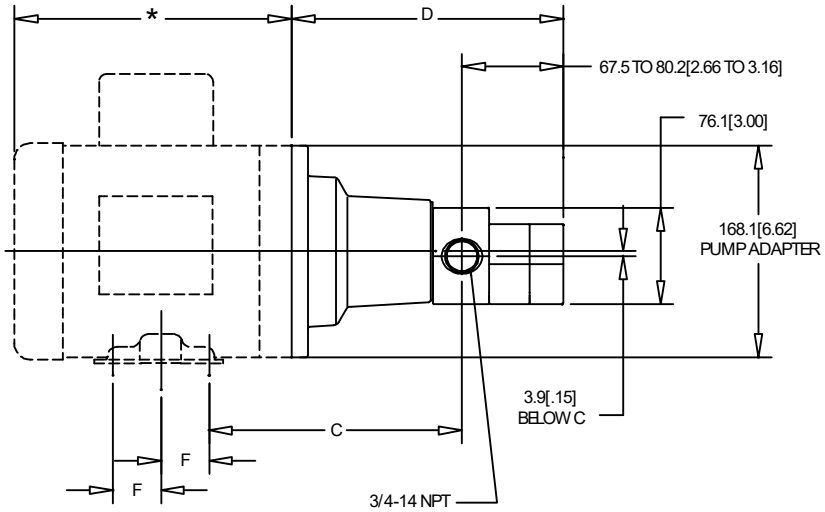
Model: 1 2 3 4 — Wetted Materials: 5 6 7 8

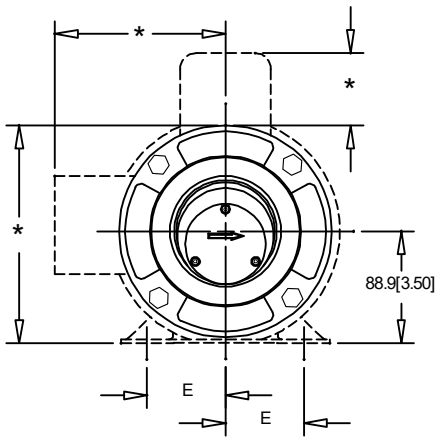
O/C: Pump
S/K: Service Kit

**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] |

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IDEX HEALTH & SCIENCE

# *Technical Data* Series GLH

***Order Code***

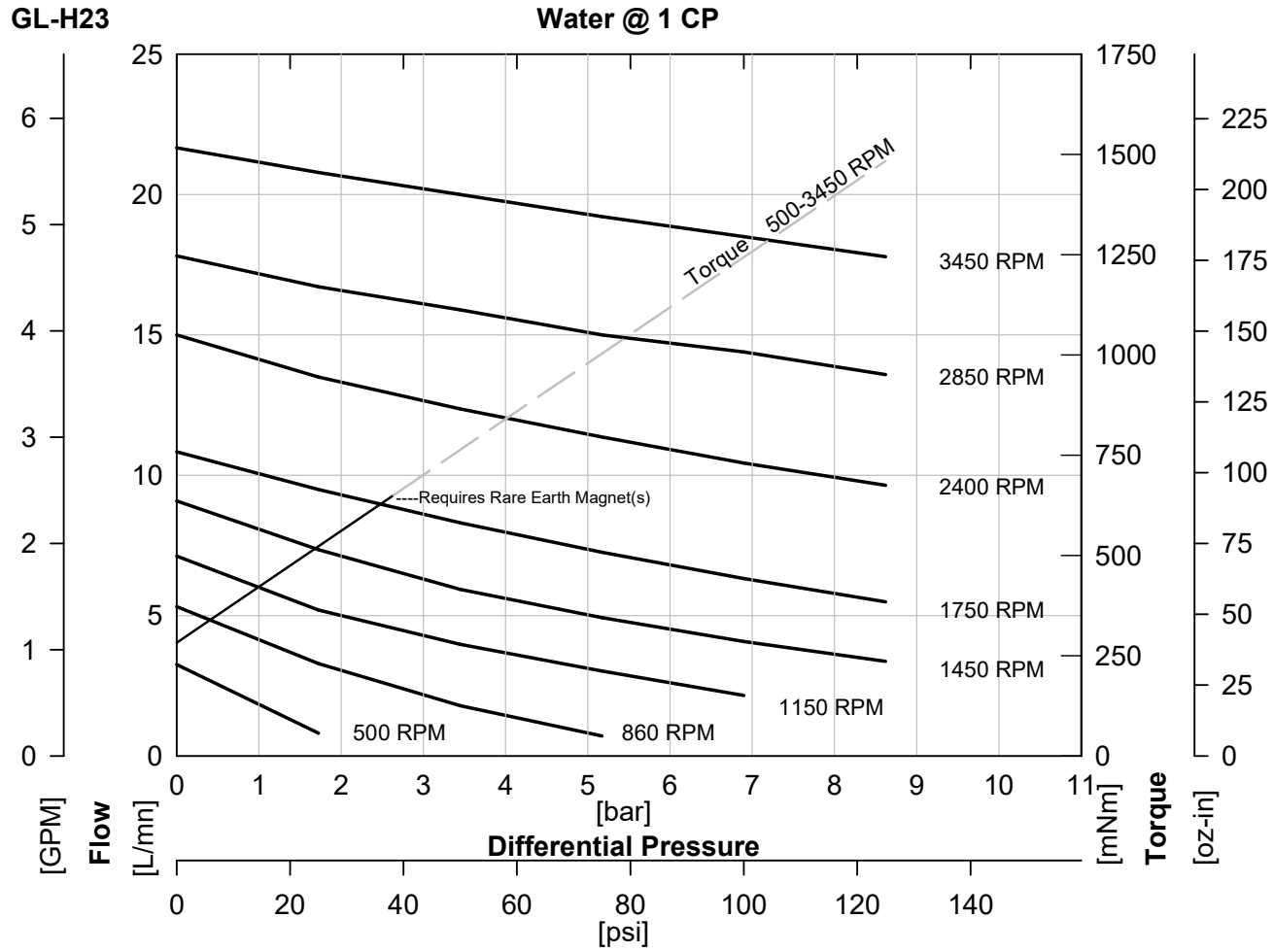
| Base Code | | | Gear Set | | | | Drive Mount | Options |
|---|---|---|---|---|---|---|---|---|
| G | LH | - | H23 | | | | 6 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

Model: 1–4 | Wetted Materials: 5–8

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)

## Performance





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***Order Code***

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

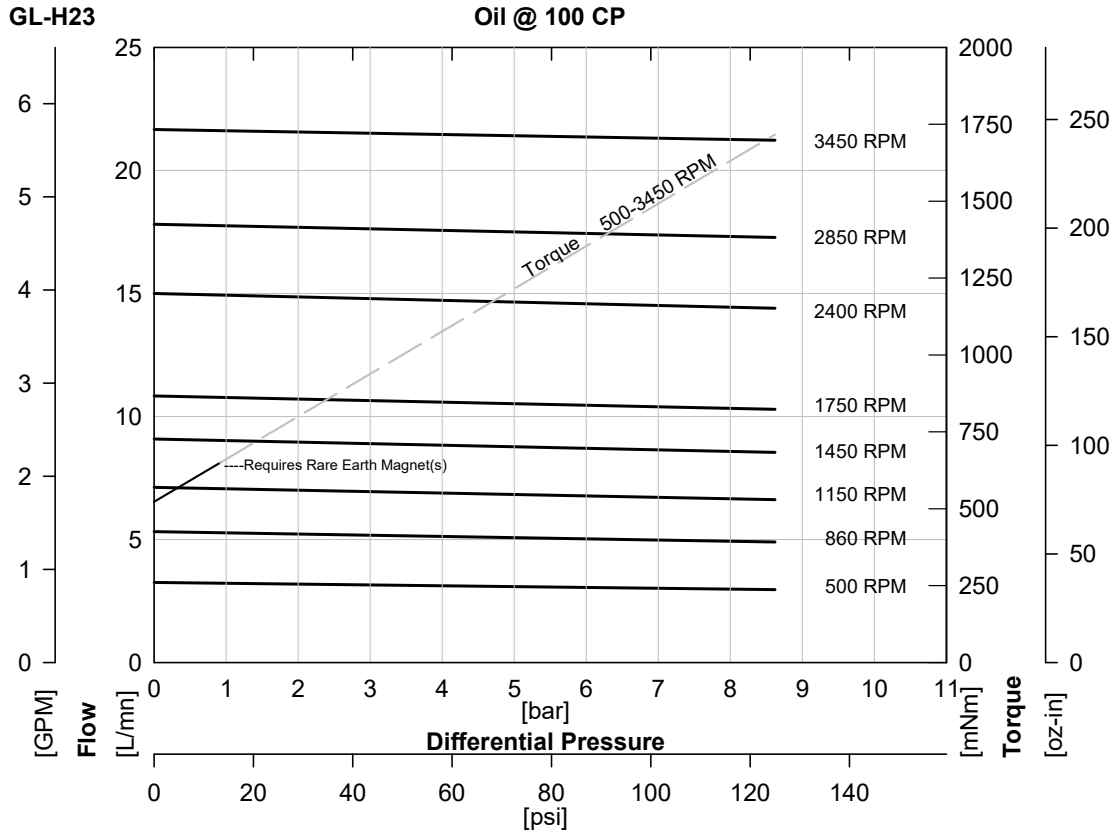
Model | Wetted Materials

O/C: Pump
S/K: Service Kit

**Pump Construction**

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

## Performance-High Viscosity




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

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

To calculate torque, multiply correction factor by torque from viscosity curve above.

| Torque Correction Factors: For Higher Viscosity Liquids | | | | |
|---|---|---|---|---|
| | Viscosity [cp] | 1 | 100 | 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] |
| Ferrite | Ferrite | 643 | 91 |
| Ferrite | SmCo | 819 | 116 |
| Ferrite | NdFeB | 1073 | 152 |
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| NdFeB | NdFeB | 3298 | 467 |


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***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)

## 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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***Order Code***

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

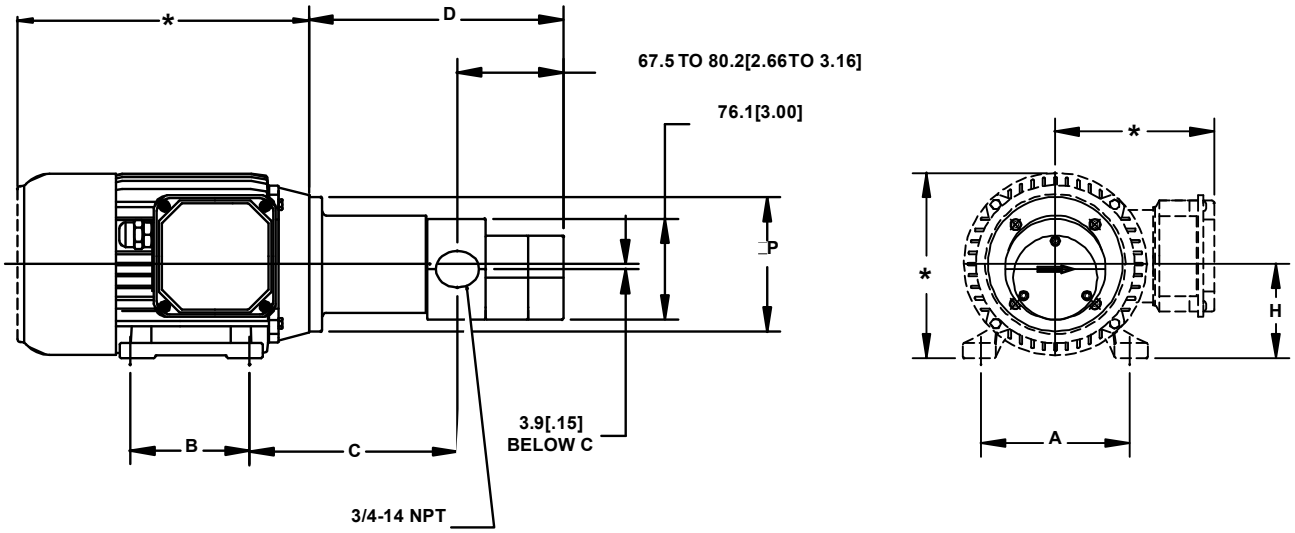
Model: 1–4 | Wetted Materials: 6–7

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] |
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***Order Code***

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

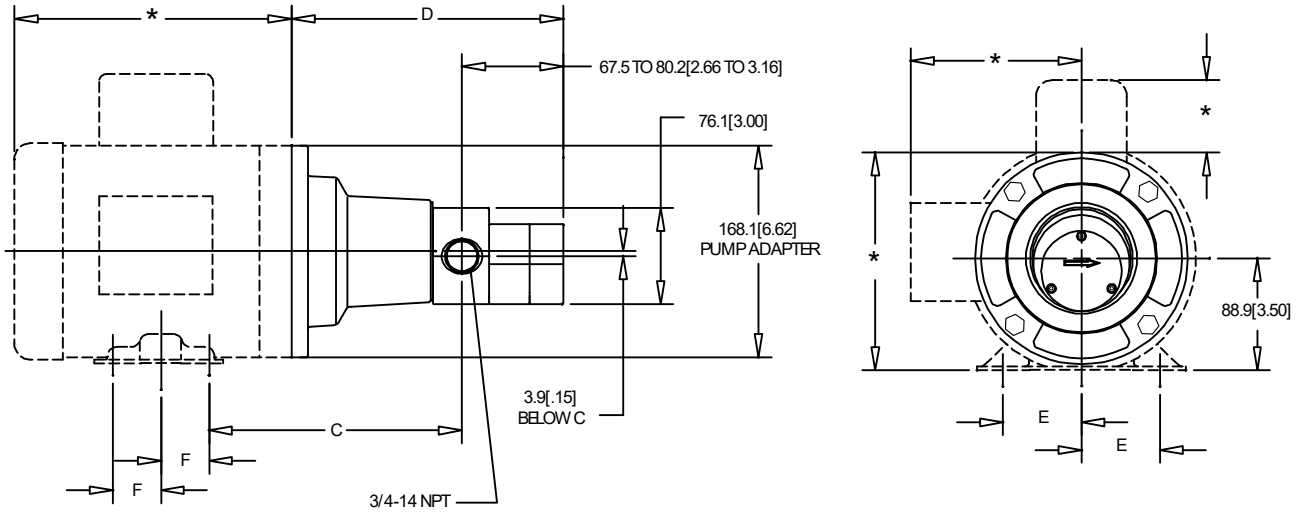
Model: 1 2 3 4 — Wetted Materials: 5 6 7 8

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

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IDEX HEALTH & SCIENCE

# *Technical Data* Series GLH

***Order Code***

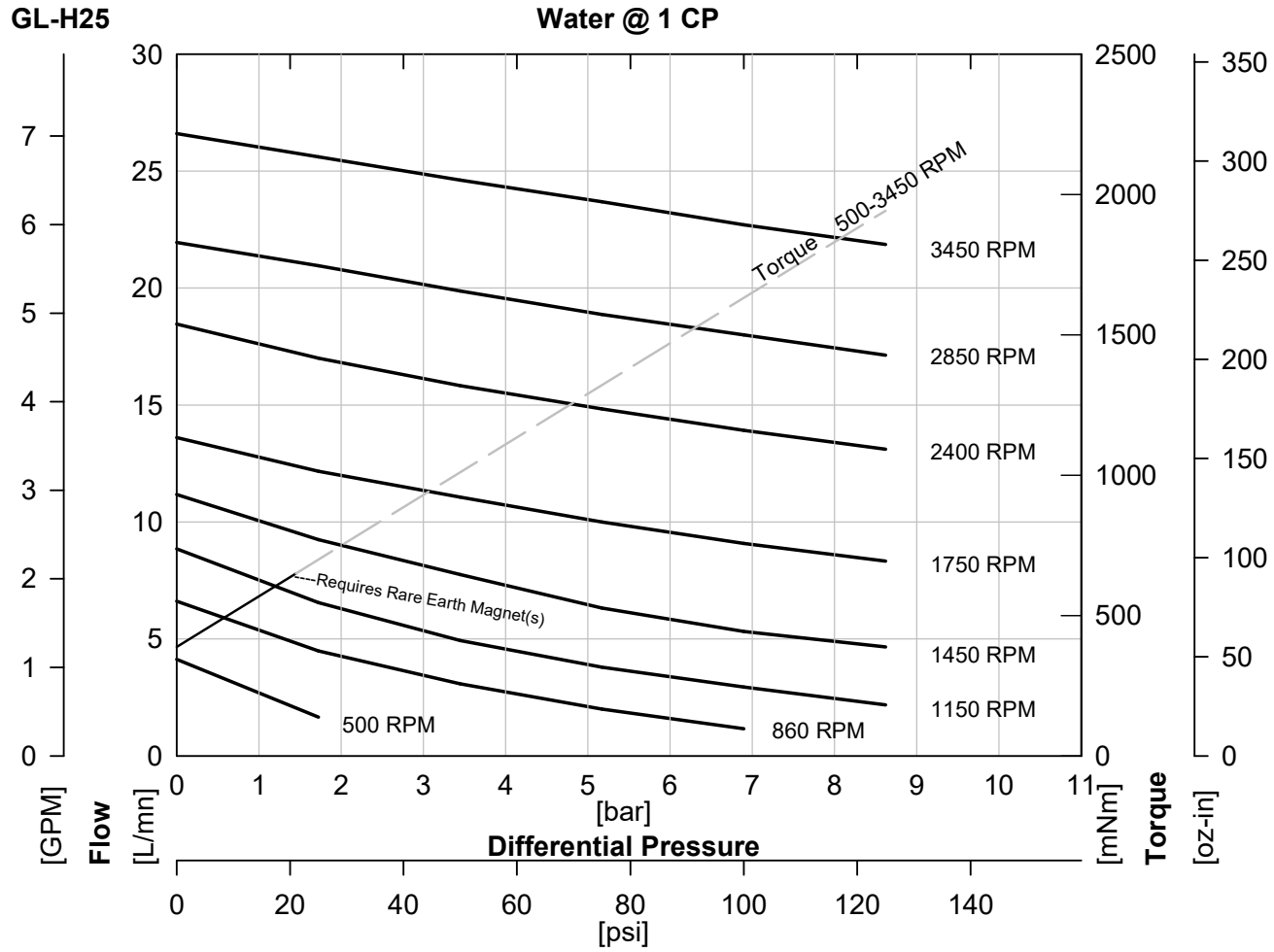
| Base Code | | | Gear Set | | | | Drive Mount | Options |
|---|---|---|---|---|---|---|---|---|
| G | LH | - | H25 | | | | 6 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |

Model | Wetted Materials

O/C: Pump
S/K: Service Kit

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

## Performance



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***Order Code***

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

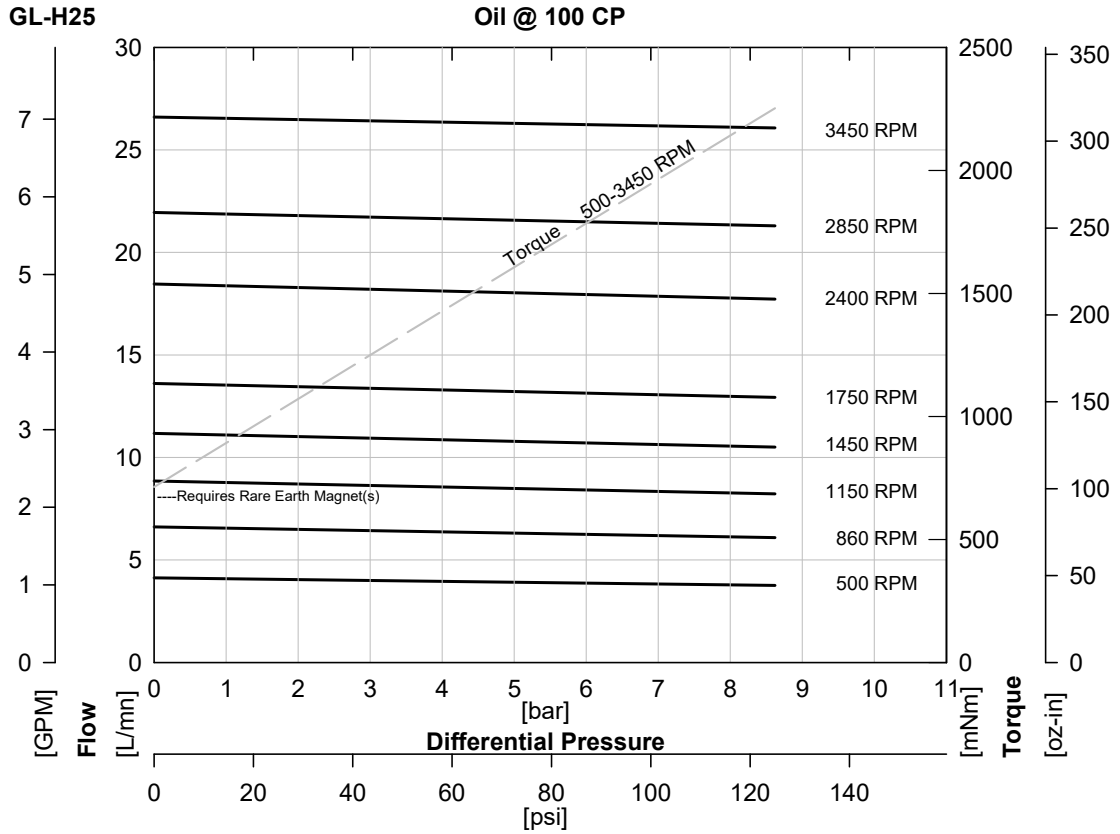
Model | Wetted Materials

O/C: Pump
S/K: Service Kit

**Pump Construction**

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

## Performance-High Viscosity

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| [Bar] | [psi] | | | |
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| 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 |
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| SmCo | SmCo | 1483 | 210 |
| SmCo | NdFeB | 1780 | 252 |
| NdFeB | Ferrite | 1921 | 272 |
| NdFeB | SmCo | 2634 | 373 |
| NdFeB | NdFeB | 3298 | 467 |


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***Order Code***

| Base Code | | | Gear Set | | | | Drive Mount | Options |
|---|---|---|---|---|---|---|---|---|
| G | LH | - | H25 | | | | 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)

## 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 | 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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***Order Code***

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

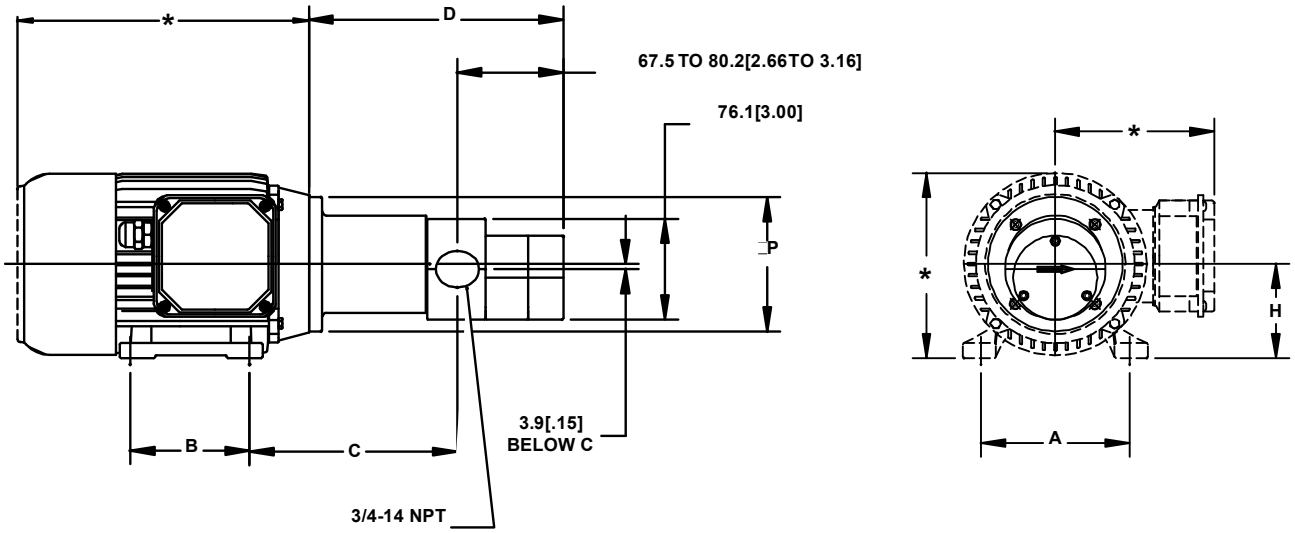
Model: 1–4 | Wetted Materials: 5–7

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] |

**NOTES:**

**1. *THESE DIMENSIONS WIL VARY BASED ON MOTOR SELECTION.**
**2. ALL DIMENSIONSARE NOMINAL.**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***Order Code***

| Base Code | | | Gear Set | | | | Drive Mount | Options |
|---|---|---|---|---|---|---|---|---|
| G | LH | - | H25 | | | | E | |
| 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
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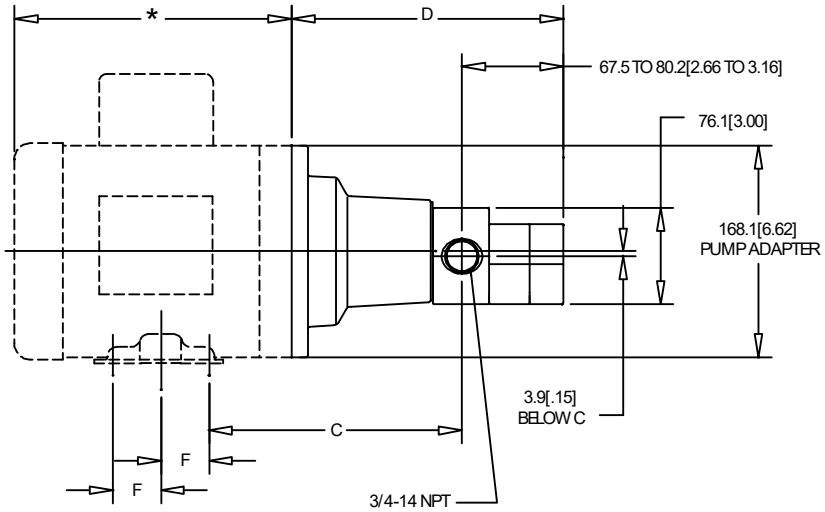
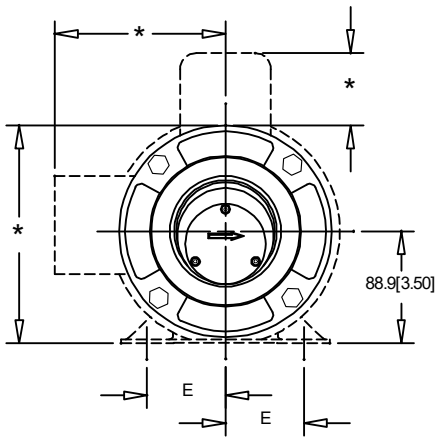
## Dimensions




| 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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