Order Code

Base Code			Gear Set				Drive Mount	Options
G	D	-	M35					
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
Three Helical Gears/DP20
Stationary Shafts
O-Ring Seal (Qty 1)

Product Options

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*		
	D	Series GD	See Drive Mount	3/8-18 (F) NPT Side Ports		
3		**Modifier**				
	-	Standard Design				
4		**Gear Set (Width/NºGears/Pitch)**	*Displacement*	*Max Differential Pressure*	*Driven Magnet (Standard)*	
	M35	0.750/3/20	3.48 ml/rev (0.92 gal/1000*rev)	6.9 Bar (100 psi)	Ferrite	
5		**Gear Material**		*Max Differential Pressure*	*Temp Range*	
	2	A10		5.2 Bar (75 psi)	-46/260°C (-50/500°F)	2
	J	PEEK (carbon fiber/ptfe)		8.7 Bar (125 psi)	-46/121°C (-50/250°F)	
	P	PPS (carbon fiber/ptfe)		5.2 Bar (75 psi)	-46/121°C (-50/250°F)	
6		**Static Seals**			*Temp Range*	
	V	Viton®			-29/204°C (-20/400°F)	
	D	EP			-46/149°C (-50/300°F)	
	K	Kalrez®			-29/260°C (-20/500°F)	
	F5	TEV (PTFE encap Viton®)			-29/204°C (-20/400°F)	
7		**Base Materials**				
	C	Hast C-276®				
	D	Alloy 20				
	S	SS316				
	T	Titanium				
8		**Drive Mount**	*Max System Pressure (MAWP)*		*Weight (Pumphead)*	
	E	NEMA 56C	103 Bar (1500 psi)		2.7 kg (6.0 lbs)	
	4	IEC 63-B14	103 Bar (1500 psi)		2.7 kg (6.0 lbs)	
	6	IEC 71-B14	103 Bar (1500 psi)		2.7 kg (6.0 lbs)	

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

	Driving Magnet (PC13)	
N3	NdFeB Driving (Ring)	

Notes
1 price adder for service kit includes cavity plate
2 Available only with Hybrid/Abrasive Modifier PC3 R

Order Code

Base Code			Gear Set				Drive Mount	Options
G	D	-	M35					
1	2	3	4	5	6	7	8	

Model — Wetted Materials

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Pump Construction
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Cavity Style
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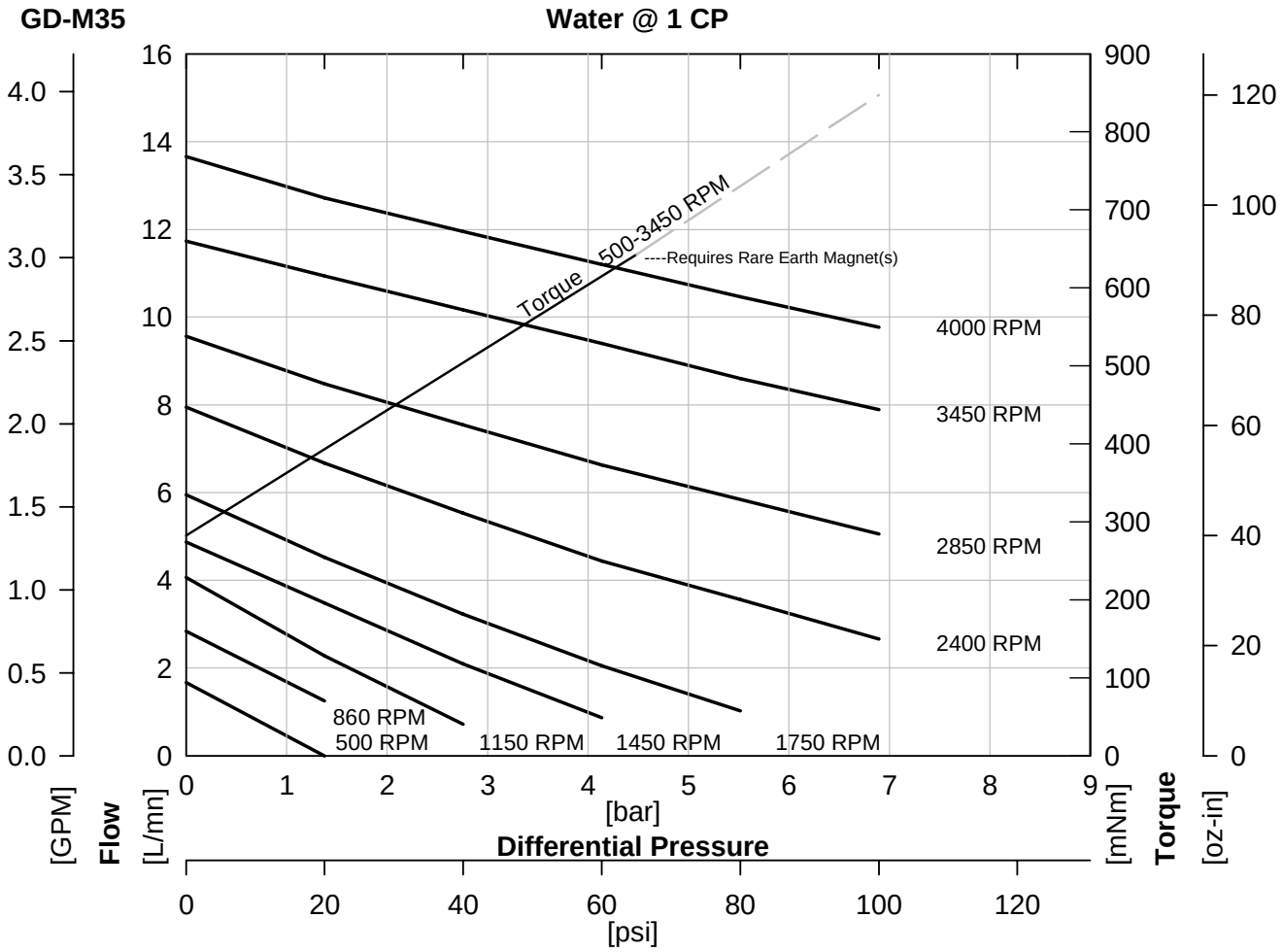
Stationary Shafts
O-Ring Seal (Qty 1)

Performance



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Order Code

Base Code			Gear Set				Drive Mount	Options
G	D	-	M35					
1	2	3	4	5	6	7	8	

Model — Wetted Materials

O/C: Pump
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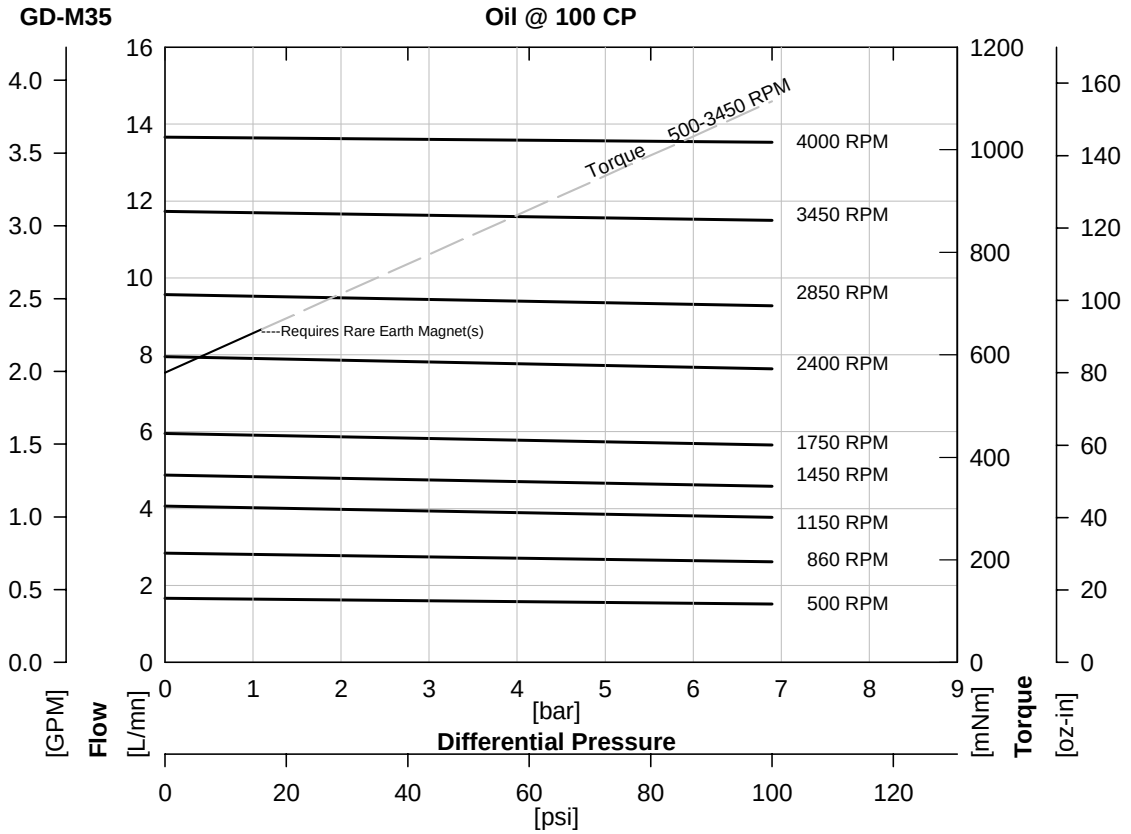
Pump Construction
Magnetic Drive Gear Pump
Cavity Style
Three Helical Gears/DP20
Stationary Shafts
O-Ring Seal (Qty 1)

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]	3450	3450	200
[Bar]	[psi]			
0.3	5	0.5	1	0.8
1.4	20	0.6	1	0.8
2.8	40	0.6	1	0.9
4.1	60	0.7	1	0.9
5.5	80	0.7	1	0.9
6.9	100	0.8	1	1.0

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

Order Code

Base Code			Gear Set				Drive Mount	Options
G	D	-	M35					
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
Three Helical Gears/DP20
Stationary Shafts
O-Ring Seal (Qty 1)

Specifications

		SI	US
Displacement		3.48 ml/rev	0.92 gal/1000*rev
Max Flow (4 Pole Speed)		5.1 L/mn 1450 RPM (50Hz)	1.7 gal/mn 1750 RPM (60Hz)
Max Flow (2 Pole Speed)		10.0 L/mn 2850 RPM (50Hz)	3.2 gal/mn 3450 RPM (60Hz)
Max Differential Pressure	1	6.9 Bar	100 psi
Max System Pressure (MAWP)		See Drive Mount	See Drive Mount
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		4,000 RPM	4,000 RPM
Rotation (Facing Motor Shaft)		CW	CW
Weight (Pumphead)		1.7 kg	3.7 lbs
Dimensions (LxWxH)		See Drawing	See Drawing
Ports		3/8-18 (F) NPT Side Ports	3/8-18 (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

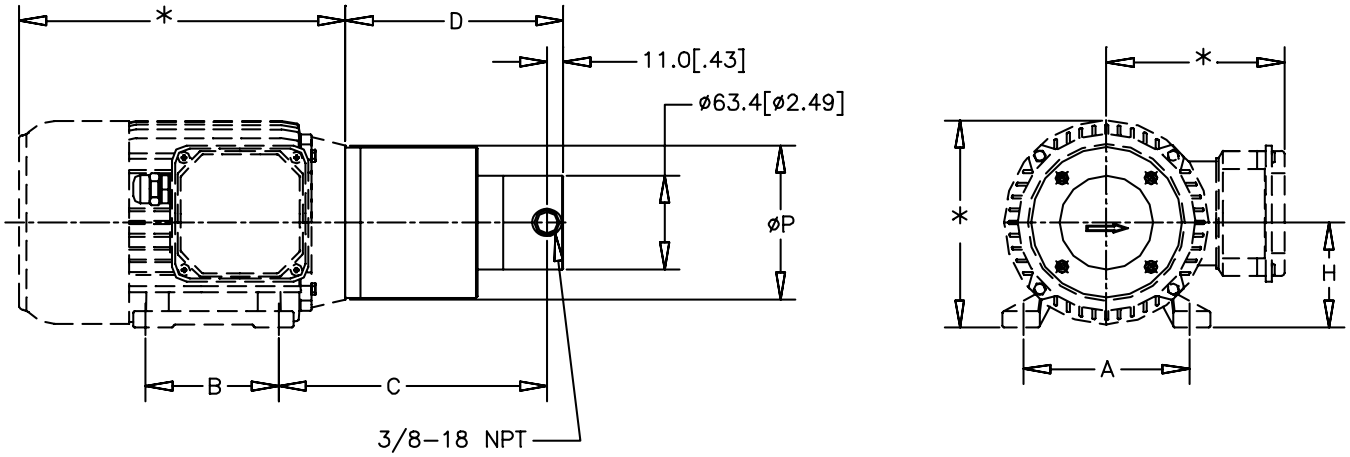
Base Code			Gear Set				Drive Mount	Options
G	D	-	M35				4/6	
1	2	3	4	5	6	7	8	

Model — Wetted Materials

O/C: Pump
S/K: Service Kit

Pump Construction
Magnetic Drive Gear Pump
Cavity Style
Three Helical Gears/DP20
Stationary Shafts
O-Ring Seal (Qty 1)

Dimensions



PUMP	MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
GD–M35	4 IEC63B14B3	100 [3.94]	80 [3.15]	168.9[6.65]	139.9[5.51]	63 [2.48]	90 [3.54]
	6 IEC71B14B3	112 [4.41]	90 [3.54]	180.9[7.12]	139.9[5.51]	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

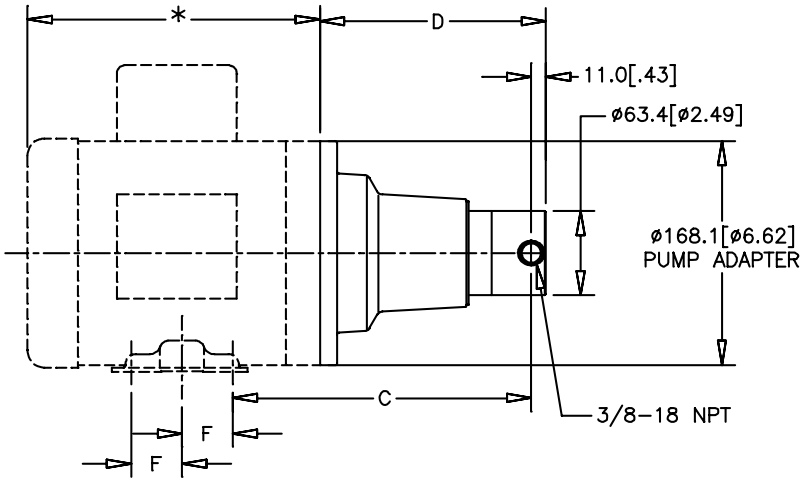
Base Code			Gear Set				Drive Mount	Options
G	D	-	M35				E	
1	2	3	4	5	6	7	8	

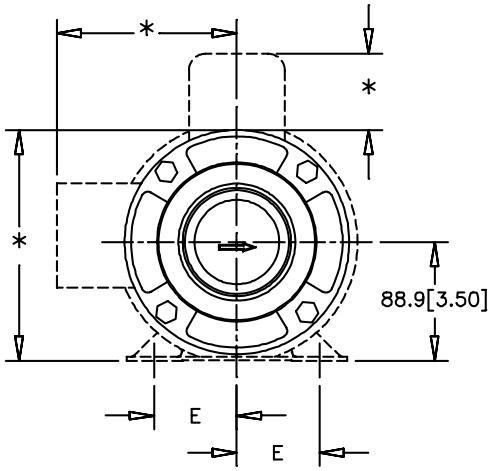
Model — Wetted Materials

O/C: Pump
S/K: Service Kit

Pump Construction
Magnetic Drive Gear Pump
Cavity Style
Three Helical Gears/DP20
Stationary Shafts
O-Ring Seal (Qty 1)

Dimensions





PUMP	MOUNT	C mm [in]	D mm [in]	E mm [in]	F mm [in]
GC–M23	E NEMA 56C	206.4 [8.13]	152.1 [5.99]	61.9 [2.44]	38.1 [1.50]
	K	201.5 [7.94]	152.1 [5.99]	69.9 [2.75]	50.8 [2.00]
	K NEMA 145TC	201.5 [7.94]	152.1 [5.99]	69.9 [2.75]	63.5 [2.50]
GC–M25/M35 GD–M35	E NEMA 56C	223.5 [8.80]	169.2 [6.66]	61.9 [2.44]	38.1 [1.50]
	K NEMA 143TC	218.7 [8.61]	169.2 [6.66]	69.9 [2.75]	50.8 [2.00]
	K NEMA 145TC	218.7 [8.61]	169.2 [6.66]	69.9 [2.75]	63.5 [2.50]

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