

Order Code <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> Base Code <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="border: 1px solid black; padding: 2px;">G</div> <div style="border: 1px solid black; padding: 2px;">D</div> <div style="border: 1px solid black; padding: 2px;"> </div> <div style="border: 1px solid black; padding: 2px;"> </div> <div style="border: 1px solid black; padding: 2px;"> </div> <div style="border: 1px solid black; padding: 2px;"> </div> <div style="border: 1px solid black; padding: 2px;"> </div> <div style="border: 1px solid black; padding: 2px;"> </div> <div style="border: 1px solid black; padding: 2px;"> </div> </div> <div style="text-align: center;"> Gear Set Drive Mount </div> <div style="text-align: center;"> Options <div style="border: 1px solid black; padding: 2px; width: 100px;">O/C: Pump S/K: Service Kit</div> </div> </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 5px;"> <div>1 Model</div> <div>2</div> <div>3</div> <div>4</div> <div>5 Wetted Materials</div> <div>6</div> <div>7</div> <div>8</div> </div> </div>				Pump Construction Magnetic Drive Gear Pump Cavity Style Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1)
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Base Code Select a code character for each numbered position to configure the product.					Notes
1	Code	Product Type	Specifications		
	G	Gear Pump			
2	Product Series		Max System Pressure (MAWP)	Ports	
	D	Series 2200	See Drive Mount	3/8-18 (F) NPT Side Ports	
3	Design Modifier				
	-	Standard Design			
	R	Hybrid/Abrasive Resistant			5
4	Gear Set (Width/N°Gears/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	
	P	PPS (carbon fiber/ptfe)	5.2 Bar (75 psi)	-46/121°C (-50/250°F)	
	J	PEEK (carbon fiber/ptfe)	8.7 Bar (125 psi)	-46/121°C (-50/250°F)	
	K	PPSKV (aramid fiber)	5.2 Bar (75 psi)	-46/121°C (-50/250°F)	
	2	A10	5.2 Bar (75 psi)	-46/260°C (-50/500°F)	1
6	Static Seals				Temp Range
	V	Viton®			-29/204°C (-20/400°F)
	D	EP			-46/149°C (-50/300°F)
	B	Buna N			-29/121°C (-20/250°F)
	F5	TEV (Teflon® encap 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®			
	B	Hast B-2®			
	S12	SS316/A10			1
8	Drive Mount		Max System Pressure (MAWP)	Weight (Pumphead)	
	F	MP Housing (220 Style)	69 Bar (1000 psi)	1.7 kg (3.7 lbs)	
	E	NEMA 56C	103 Bar (1500 psi)	2.7 kg (6.0 lbs)	
	K	NEMA 143/145TC	103 Bar (1500 psi)	2.7 kg (6.0 lbs)	
	3	IEC 63-B5	103 Bar (1500 psi)	2.7 kg (6.0 lbs)	
	4	IEC 63-B14	103 Bar (1500 psi)	2.7 kg (6.0 lbs)	
	5	IEC 71-B5	103 Bar (1500 psi)	2.7 kg (6.0 lbs)	
	6	IEC 71-B14	103 Bar (1500 psi)	2.7 kg (6.0 lbs)	
	12	IEC 71-B14 to "F" Mount	69 Bar (1000 psi)	2.7 kg (6.0 lbs)	

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

Options			Add Option codes after the Base Code to modify features or enhance the product.
Driven Magnet (PC12)			
M1	SmCo Driven (Segments)		3
M2	SmCo Driven (Laser Welded)		3
M6	SmCo Driven (Segments) DD Drv		2
Driving Magnet (PC13)			
N1	SmCo Driving (Segments)		3
N3	NdFeB Driving (Ring)		3
Ports/Fittings (PC17)		Ports	
F5	Tri-Clamp (TC25) Fittings	1/2" 316L SS Ferrule	
F11	ANSI Flanges (1", 600#)	99 Bar(1440 psi) Welded 316	

Notes

- 1 Available only with Hybrid/Abrasive Modifier (PC03:R)
- 2 Available only with Hybrid/Abrasive Modifier (PC03:R) Application details required.
- 3 Application details required before order entry.
- 4 Price adder only applicable with HSS shafts. Cavity plate not included in service kit.
- 5 Price adder for service kit includes cavity plate.

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Technical Data

Series 2200

Order Code

Base Code

1	2	3	4	5	6	7	8	Options
G	D	-	M35					
Model			Wetted Materials			O/C: Pump S/K: Service Kit		

Gear

Set

Drive

Mount

Pump Construction

Magnetic Drive Gear Pump

Cavity Style

Three Helical Gears/DP20

Stationary Shafts

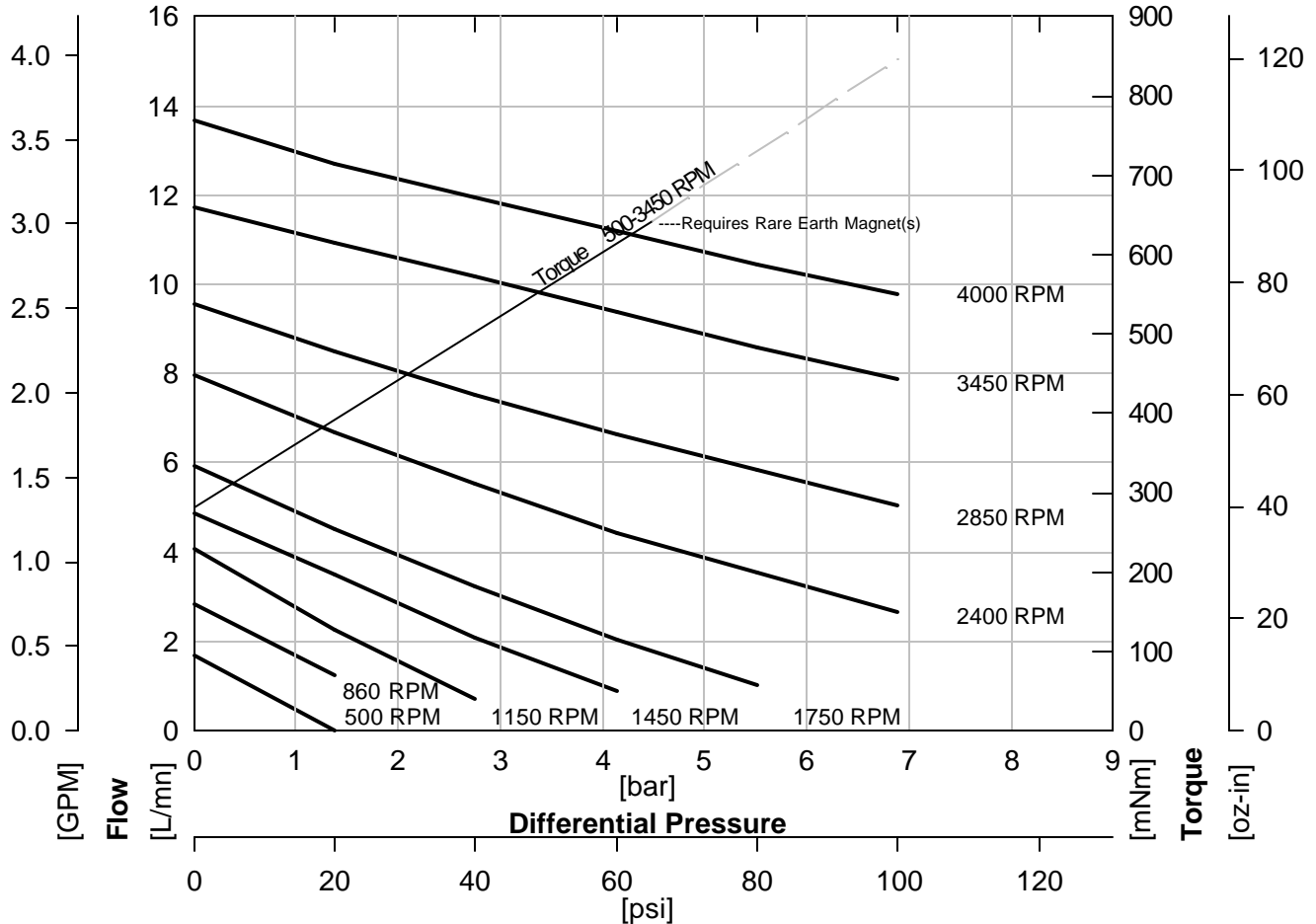
O-Ring Seal (Qty 1)



Performance

GD-M35

Water @ 1 CP




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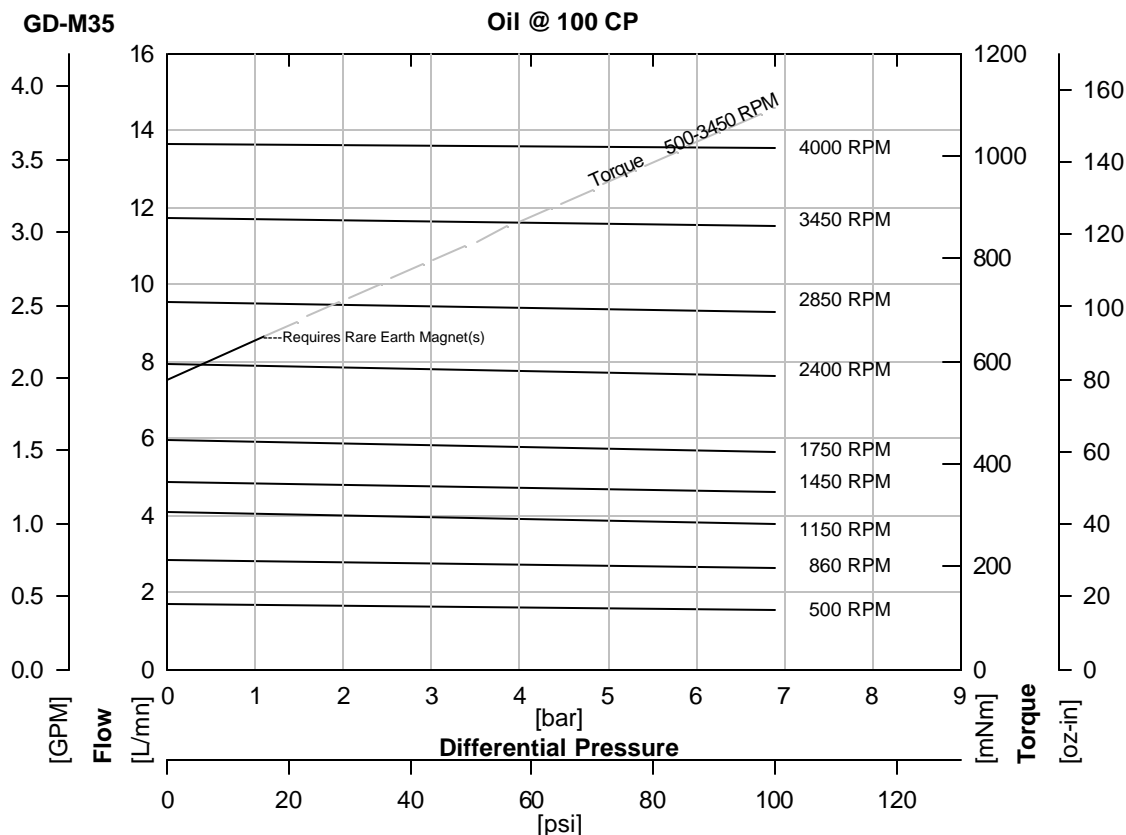
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Order Code				Pump Construction			
Base Code G D - M35 1 2 3 4 5 6 7 8 Model Wetted Materials				Magnetic Drive Gear Pump Cavity Style Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1)			
Options O/C: Pump S/K: Service Kit							

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]		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

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<div style="display: flex; justify-content: space-between;"> <div> Model <div style="border: 1px solid black; padding: 2px; display: flex; align-items: center;"> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;">1</div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;">2</div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;">3</div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;">4</div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;">5</div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;">6</div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;">7</div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;">8</div> </div> </div> <div> Wetted Materials <div style="border: 1px solid black; padding: 2px; display: flex; align-items: center;"> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;"></div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;"></div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;"></div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;"></div> </div> </div> </div>				<div style="border: 1px solid black; padding: 2px; display: flex; align-items: center;"> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;"></div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;"></div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;"></div> <div style="width: 15px; height: 15px; border: 1px solid black; text-align: center; line-height: 15px;"></div> </div>							



Specification

	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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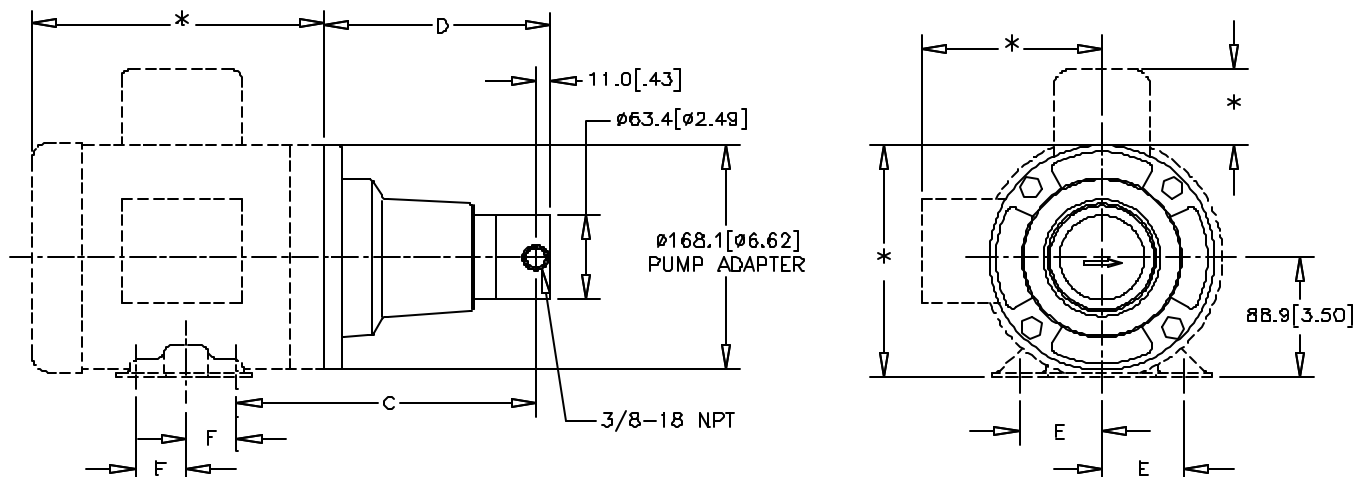
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<u>Order Code</u>								<u>Pump Construction</u> Magnetic Drive Gear Pump Cavity Style Three Helical Gears/DP20 Stationary Shafts O-Ring Seal (Qty 1)		
Base Code			Gear Set		Drive Mount					Options
G	D	-	M35				E			
1	2	3	4	5	6	7	8			
Model			Wetted Materials			O/C: Pump S/K: Service Kit				



Dimension



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]

NOTES:

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


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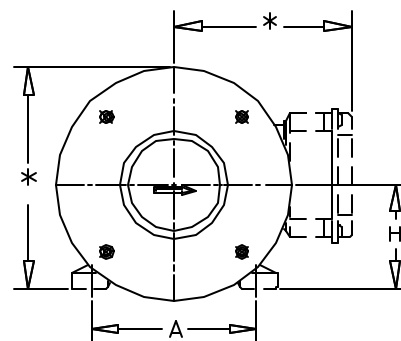
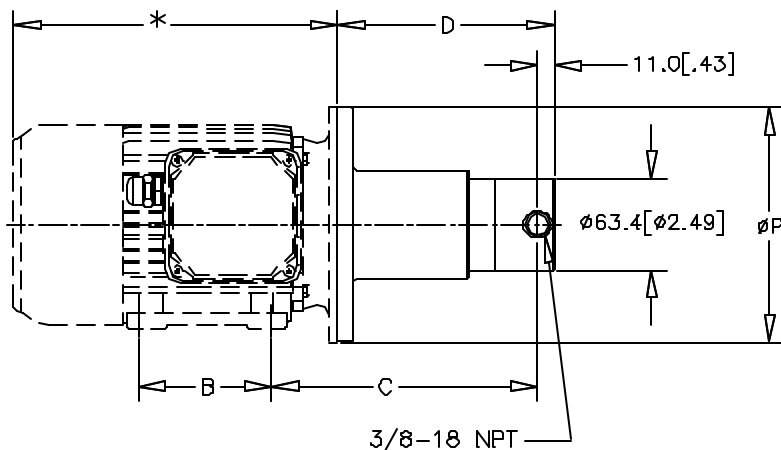
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Base Code			Gear Set		Drive Mount					Options
G	D	-	M35				3			
1	2	3	4	5	6	7	8			
Model			Wetted Materials			O/C: Pump S/K: Service Kit				



Dimension



PUMP	MOUNT	A mm [in]	B mm [in]	C mm [in]	D mm [in]	H mm [in]	P mm [in]
GC-M23	IEC63B5B3	100 [3.94]	80 [3.15]	151.8 [5.97]	122.7 [4.83]	63 [2.48]	140 [5.51]
	IEC71B5B3	112 [4.41]	90 [3.54]	163.7 [6.45]	122.7 [4.83]	71 [2.80]	160 [6.30]
GC-M25/M35 GD-M35	IEC63B5B3	100 [3.94]	80 [3.15]	168.9 [6.65]	139.9 [5.51]	63 [2.48]	140 [5.51]
	IEC71B5B3	112 [4.41]	90 [3.54]	180.9 [7.12]	139.9 [5.51]	71 [2.80]	160 [6.30]

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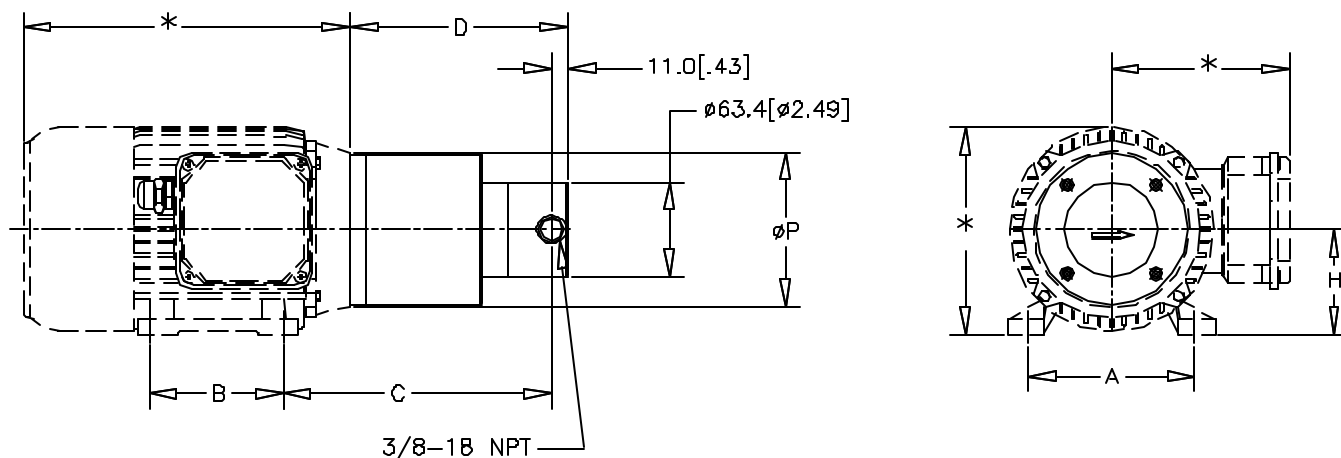
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<u>Order Code</u>								<u>Pump Construction</u>		
Base Code			Gear Set		Drive Mount			Magnetic Drive Gear Pump		
G	D	-	M35				4		Cavity Style	
1	2	3	4	5	6	7	8		Three Helical Gears/DP20	
Model			Wetted Materials			O/C: Pump S/K: Service Kit			Stationary Shafts	
								O-Ring Seal (Qty 1)		

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

Dimension



PUMP	MOUNT	A mm [In]	B mm [In]	C mm [In]	D mm [In]	H mm [In]	P mm [In]
GC-M23	IEC63B14B3	100 [3.94]	80 [3.15]	151.8 [5.97]	122.7 [4.83]	63 [2.48]	90 [3.54]
	IEC71B14B3	112 [4.41]	90 [3.54]	163.7 [6.45]	122.7 [4.83]	71 [2.80]	105 [4.13]
GC-M25/M35 GD-M35	IEC63B14B3	100 [3.94]	80 [3.15]	168.9 [6.65]	139.9 [5.51]	63 [2.48]	90 [3.54]
	IEC71B14B3	112 [4.41]	90 [3.54]	180.9 [7.12]	139.9 [5.51]	71 [2.80]	105 [4.13]

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