



OBERDORFER[®]

An Ingersoll Rand Business



HIGH SYSTEM PRESSURE MAG DRIVE | STAINLESS STEEL
GEAR PUMPS FOR DEMANDING APPLICATIONS

H Series Chemsteel[®]

www.oberdorferpumps.com

Chemsteel Features

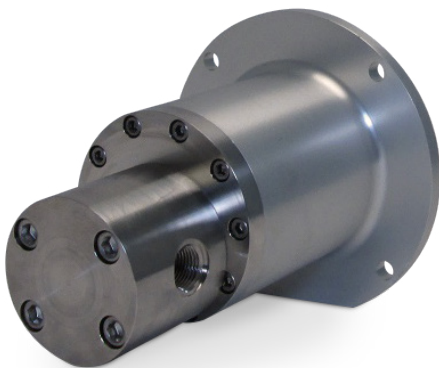
Chemsteel
Magnetic Gear
Pumps are
engineered to
safely handle
hazardous, toxic,
highly demanding
or explosive
chemicals.

- Rugged, reliable pumps to meet your most demanding applications
- Wide range of gear and bearing materials to fit your application
- Flows from 0.5 to 3 GPM (1.9 to 11.4 LPM) at 1750 RPM
- System Pressures from 0 to 1500 PSI (103.4 bar)
- Slotted bearings to lubricate shaft and gear surfaces

Materials of Construction

- Body 316 SS,
- Gears , Peek, 316 SS, W88, and PTFE
- Shafts 316 SS
- Bearings Carbon, PTFE and Rulon®
- Samarium cobalt magnets
- Close-Coupled Adapters for NEMA and IEC standard motor frame sizes
- A 286 containment can (high strength stainless)
- For gear, bearing, and static seal options, see part numbering code

Chemsteel pumps are designed to handle highly corrosive liquids that must be pumped under pressure. Manufactured to extremely precise tolerance, the Chemsteel pump line prevents system contamination while maintaining the purity and integrity of the liquid being pumped. Its rugged, three-section, o-ring sealed thru-bolt construction provides ease of servicing and parts replacement. Helical gearing offers noise reduction by as much as 10 dB. over spur gears. Additionally, Chemsteel pumps offer bi-directional operation for applications requiring reversing flow.



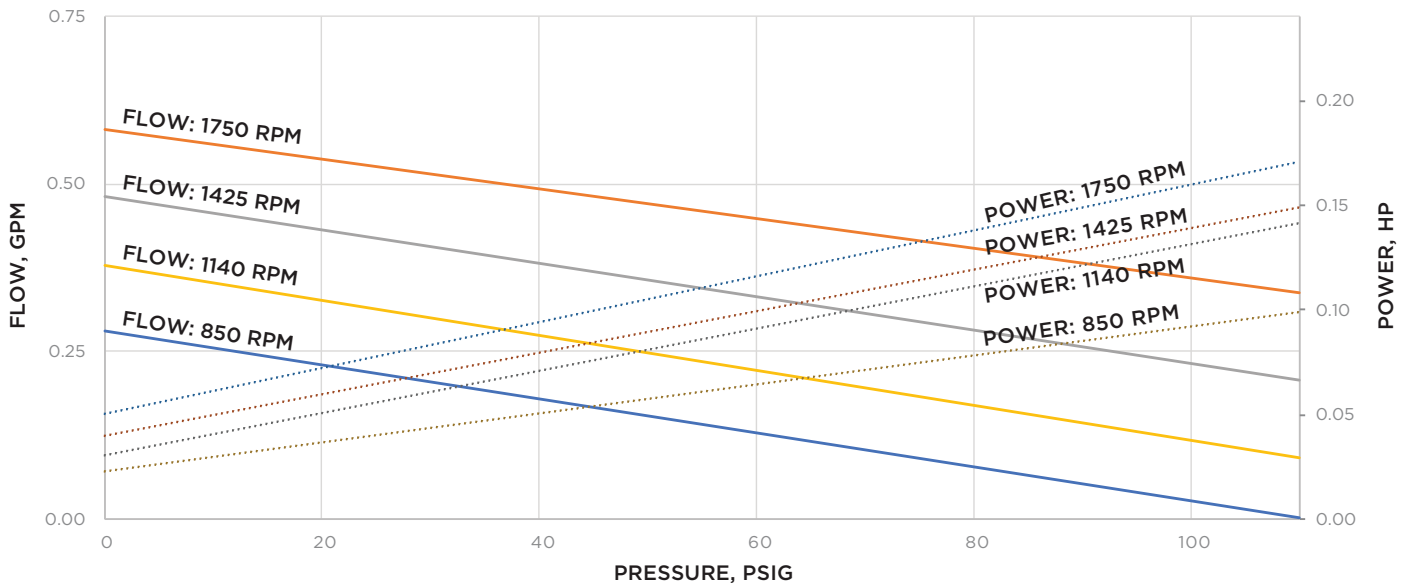
High System Pressure Mag Drive Gear Pumps Series Overview

SERIES	BODY MATERIALS	GEAR OPTIONS
OBHM102	Stainless Steel	Stainless Steel, PEEK, W88, PTFE
OBHM103		
OBHM104		
OBHM106		

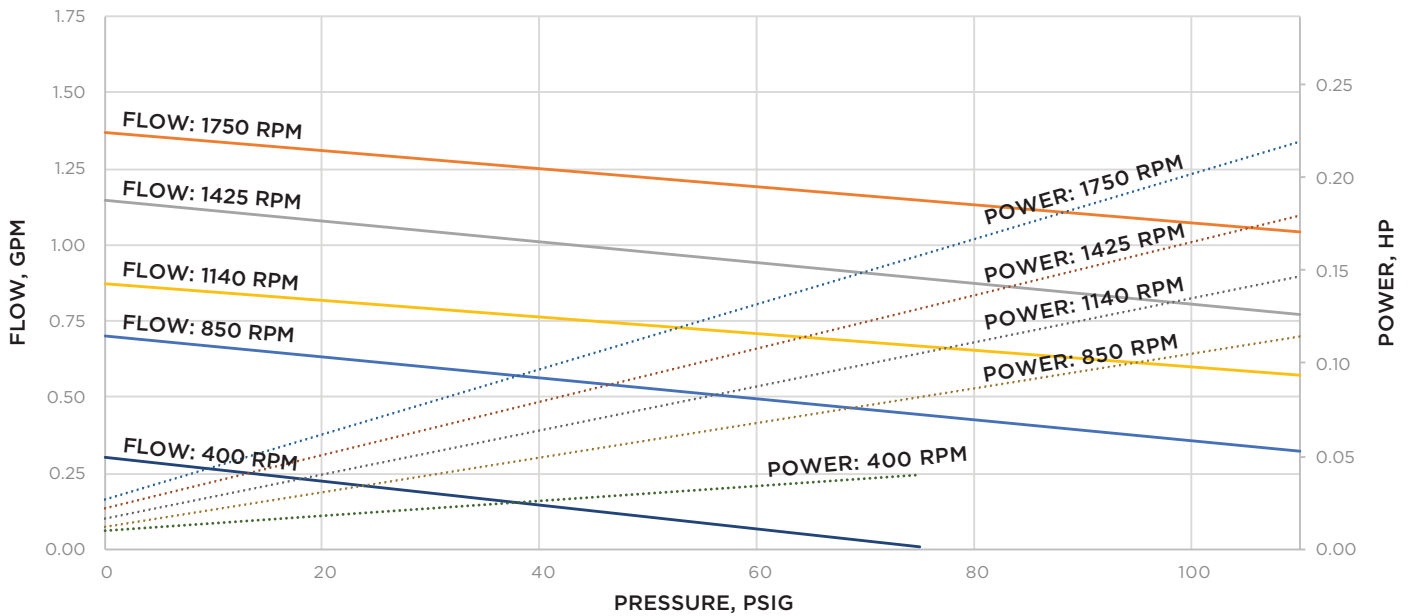
SPECIFICATION	MODEL			
	OBHM102	OBHM103	OBHM104	OBHM106
Maximum Flow (gpm) @1750 rpm	0.5	1.5	2	3
Theoretical Displacement (cc/revolution)	1.9	3.8	5.7	7.5
Maximum Differential Pressure (psig)	110	110	110	110
Maximum System Pressure Continuous (psig)	1500	1500	1500	1500
Maximum Speed (rpm)	1750	1750	1750	1750
Maximum Fluid Temperature	450°F	450°F	450°F	450°F
Minimum Fluid Temperature	-50°F	-50°F	-50°F	-50°F
Standard Port Size	1/2"			

SPECIFICATION (metric units)	MODEL			
	OBHM102	OBHM103	OBHM104	OBHM106
Maximum Flow (lpm) @1750 rpm	1.9	5.7	7.6	11.4
Theoretical Displacement (cc/revolution)	1.9	3.8	5.7	7.5
Maximum Differential Pressure (bar)	7.6	7.6	7.6	7.6
Maximum System Pressure Continuous (bar)	103.4	103.4	103.4	103.4
Maximum Speed (rpm)	1750	1750	1750	1750
Maximum Fluid Temperature	232°C	232°C	232°C	232°C
Minimum Fluid Temperature	-46°C	-46°C	-46°C	-46°C
Standard Port Size	1/2"			

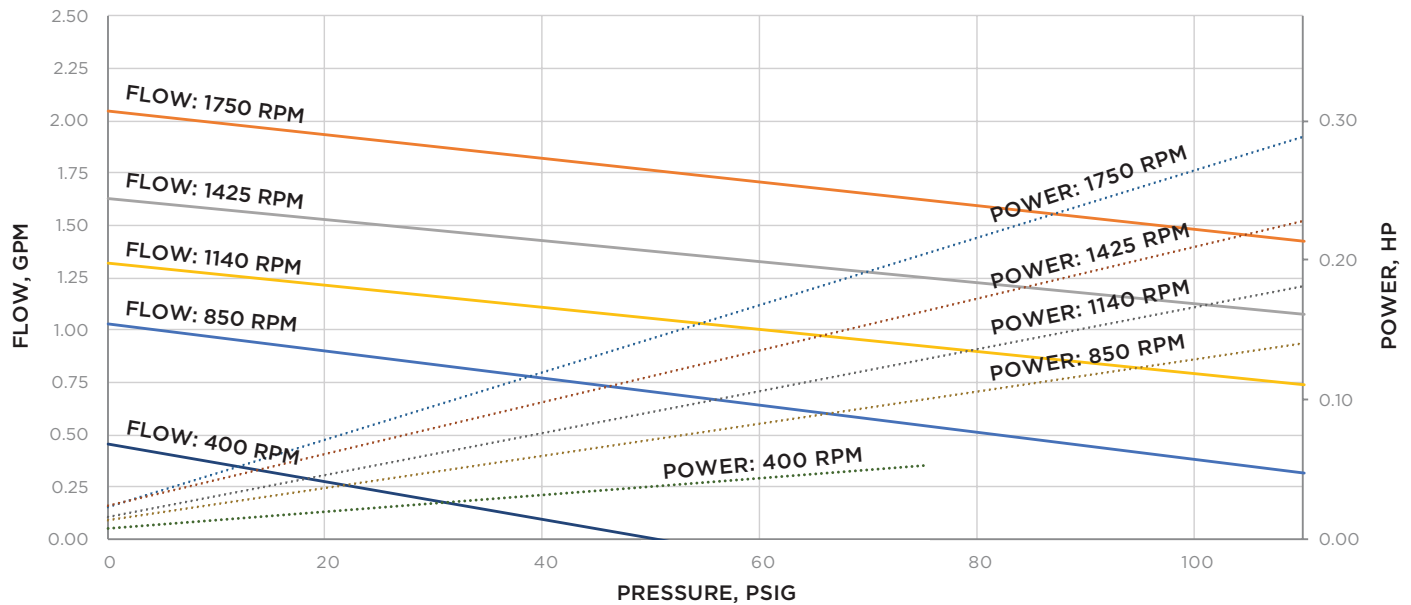
#102 CHEMSTEEL PERFORMANCE WATER @ 70°F, 33 SSU



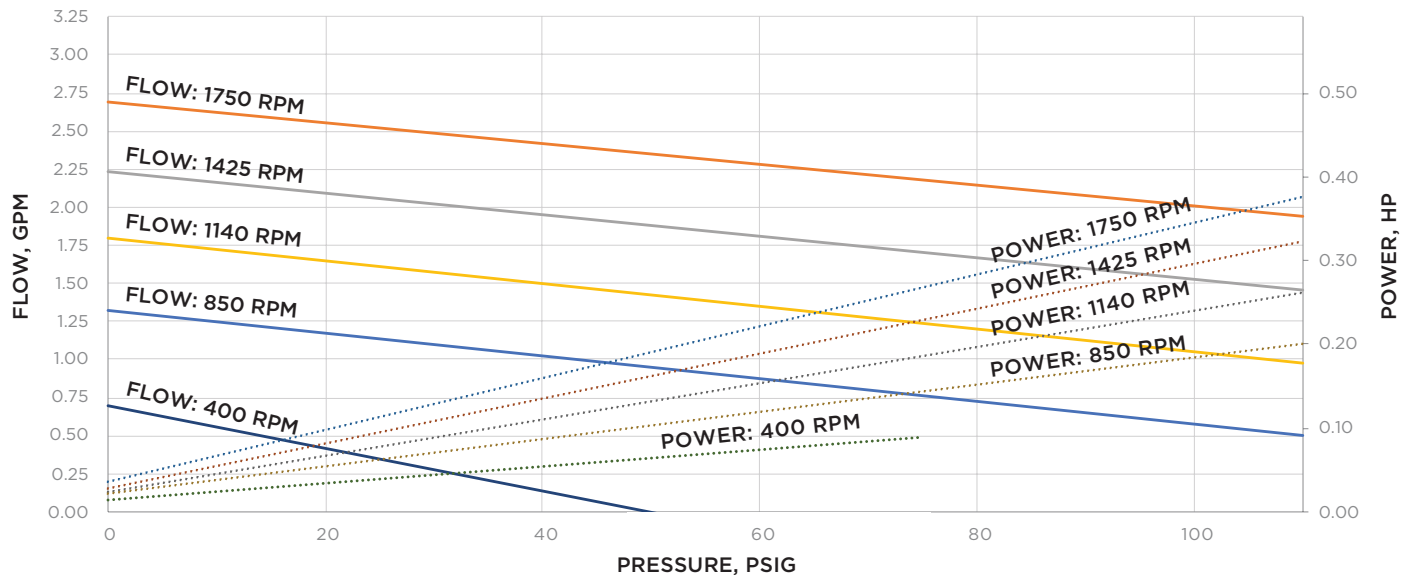
#103 CHEMSTEEL PERFORMANCE WATER @ 70°F, 33 SSU



#104 CHEMSTEEL PERFORMANCE WATER @ 70°F, 33 SSU



#106 CHEMSTEEL PERFORMANCE WATER @ 70°F, 33 SSU



HP Series Part Numbering Code

OBHM1

1

+ -

Motor Codes & Additional Options

FLOW RATE CODE	GPM @ 1750 RPM
02	0.5
03	1.5
04	2
06	3

GEAR CODE	DRIVE	IDLE	DIFFERENTIAL PSI LIMIT
2	316 SS	PEEK	110
3	PEEK	PEEK	110
7	PTFE	PTFE	50
D	W88	316 SS	110
E	316 SS	316 SS	100
F	316 SS	PTFE	50

T1 through T13 Non-Metallic Gear - Temperature Trim

TRIM CODE	TEFLON/RULON		PEEK	
T1	115-134°F	46-57°C	200-239°F	93-115°C
T2	135-154°F	57-68°C	240-279°F	116-137°C
T3	155-174°F	68-79°C	280-319°F	138-159°C
T4	175-194°F	79-90°C	320-359°F	160-182°C
T5	195-215°F	91-102°C	360-400°F	182-204°C
T6	216-236°F	102-113°C		
T7	237-257°F	114-125°C		
T8	258-278°F	126-137°C		
T9	279-299°F	137-148°C		
T10	300-320°F	149-160°C		
T11	321-341°F	161-172°C		
T12	344-362°F	173-183°C		
T13	363-383°F	184-195°C		

O-RING CODE	MATERIAL
2	PTFE ENCAPSULATED SILICONE
3	BUNA-N
4	VITON-A
5	EPDM
6	AFLAS
E	KALREZ

BEARING CODE	MATERIAL	MAX DIFFERENTIAL PSI
C	CARBON GRAPHITE RESIN	110
P	PTFE	50
J	RULON	75

CODE	MOTOR CODES*/ ADDITIONAL OPTIONS
E	BSPT THREAD
01	NEXT PORT SIZE UP
M1	56C MOTOR FRAME
+()K	ANY BASE PUMP FOLLOWED BY A 'K' WILL INDICATE A PUMP REBUILD KIT. NO INFO AFTER "-" REQUIRED

*Motor code required when not ordering a motor from Oberdorfer

WARNING: Pump works under high pressures. Please use safety glasses and other precautionary measure warding off impending danger or damage or injury.





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THE LEADER IN EVERY MARKET
WE SERVE BY CONTINUOUSLY IMPROVING
ALL BUSINESS PROCESSES WITH
A FOCUS ON **INNOVATION AND VELOCITY**



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