## Basic Pump Series

<table>
<thead>
<tr>
<th>Code</th>
<th>Metal</th>
<th>RYTON®</th>
<th>Code</th>
<th>RYTON®</th>
<th>Flow Rate (gpm)</th>
<th>Max Flow (gpm)</th>
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<tbody>
<tr>
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</tr>
</tbody>
</table>

### Flow Rate Code
- Code Metal RYTON®
- Code RYTON®
- Flow Rate Code GPM @ 1725 RPM

### Seal-less Mag-drive
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### Gear Material Combination
- Gear Material Combination
- Drive: 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C
- Seal: 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C

### Bearing Material
- Bearing Material Code
- Material: C, P, J

### Shaft Seal
- Shaft Seal Code
- Style: A, B, C, D, E, F, G

### Mag-Drive
- Mag-Drive Code
- Style: M, MAG-COUPLED

### Additional Options
- Additional Options Code
- Option: C, D, E, F, G, H

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**Example:**

S2 07 1 6 C C B

- Basic Pump Series: S2
- Flow Rate: 07 (4gpm @1725)
- Housing and Shaft Material: 316 SS
- Gear Material Combination: W88
- Bearing Material: Carbon Graphite
- Shaft Seal Style: Wedge

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**Materials:**
- TEFLON® backed by TEFLON®
- Samarium Cobalt
- Teflon®
- GRAFOIL®
- Neodymium Iron
- KALREZ®

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**Options:**
- TEFLON® is a registered trademark of DuPont, an equivalent fluoropolymer may be used.
- RYTON® is a registered trademark of Chevron Phillips Chemical, an equivalent polyphenylene sulfide may be used.
- PEEK® is a registered trademark of Saint-Gobain, an equivalent compounded PTFE based material may be used.
BI DIRECTIONAL OPERATION
• For applications requiring reversing flow

BODY/COVER STATIC O-RINGS
• Teflon® encapsulating silicone for sealing with a memory

COMBINED BEARING & WEARPLATE
• Full size bearings match the gear diameter and eliminate the need for separate wear plates
• Gear trimming for desired flow rates
• Made of carbon-graphite, Teflon® or Ruton®

HELICAL GEARS
• Noise reduction up to 10 db

INTERFACING TO WORLD STANDARDS
• NPT & BSPT porting
• Metric pump hardware
• Close-coupled adapters for NEMA and IEC standard motor frame sizes

METALLIC & NON-METALLIC
• Wide range of capability
• Effective weight and cost selection

SEAL HOUSINGS
• Ported for flush, drain, barrier fluid and lantern packing lubrication
• Access to seals without removal of cover

UPPER DRIVE STANDARD
• Lends itself to in-line pump seal maintenance without leakage of trapped chemicals
• Easily converted to a lower drive configuration

DYNAMIC SEAL OPTIONS INCLUDE
• Single or double mechanical wedge & bellows styles
• Standard compression packing
• Lantern Ring compression packing
• Lip seals

OPTIONAL BEARING FLUSH PORTS
• To extend bearing life when pumping non-lubricating fluids or fluids with a small degree of fine solids

EXTENDED LIFE
• Gear & bearing combinations of metallic and nonmetallic wear surfaces
• Slotted bearings to lubricate shaft and gear surfaces
• Hydraulic porting to balance axial thrust and reduce wear

TANDEM PUMPS
• Tandem Pumps double the output flow for a single fluid.
• Or with isolation, handle different fluids in direct ratio to each other.

MAG DRIVE PUMPS
• Stainless Steel
• Alloy C
• Ryton®

BODY
Ryton®, Polyp-phenylene Sulfide PPS, an engineered, reinforced plastic, offering a wide range of chemical compatibility, physical stability, and high temperature resistance (to 200° F).

Type 316, An all purpose austenitic stainless, excellent corrosion resistance; premium choice of all 300 series alloys.

Alloy C, Most used of exotic high/nickel alloys. Superior corrosion resistance for severe alkaline and acidic pumping applications.

CHEMSTEEL CHEMSTEEL® BY OBERDORFER PUMPS
A Gardner Denver Product

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

CONSTRUCTION

GEARS
• Precision machined metallic gears of 316SS, W88 stainless, and Alloy C. Also available in glass reinforced Teflon®, Ryton® and carbon reinforced PEEK.

SHAFTS
• Shafts are 316 stainless steel or Alloy C.

BEARINGS
• Full gear diameter carbon sleeve bearings for maximum chemical resistance and high load capacity.
• Teflon® or Rulon® plastic bearings available for product purity.

SEALS
• Single and/or double mechanical seals are offered in elastomer bellows and Teflon® wedge designs. Bellows design available with Viton® or EPDM formed elastomer shaft seal. Wedge designs available with Teflon® wedge shaft seal and perfluoroelastomer stationary seat o-rings. Packing materials: Teflon®, Grafoil® and Teflon®/Graphite.

BODY/COVER O-RINGS
• Teflon® encapsulating, silicone o-rings provide elastic memory to assure an effective long lasting seal. Avoiding the re-torquing required of pumps using pure TFE.

CLOSE COUPLED MAG DRIVE PUMPS

BODY
• Stainless Steel, Ryton and Alloy C constructions

GEARS
• (Ryton®, Peek, 316 SS, W88, Alloy C and Teflon®)

SHAFTS
• 316 SS or Alloy C

BEARINGS
• Carbon, Teflon® and Rulon®

• Neodymium or Samarium cobalt magnets
• Close Coupled Adapters for NEMA and IEC standard motor frame sizes
• 316 Stainless Steel, Ryton and Alloy C containment cans
• 1/2 to 30 GPM