CHEMSTEEL® Numbering System

Example:

S2 07 1 6 C C B

-Basic Pump Series S2 -Flow Rate 07 (4 gpm @ 1725) Housing and Shaft Material 316 SS LGear Material Combination W88 Bearing Material Carbon Graphite — Shaft Seal Style, Materials -Additional Options — (Tandem, BSPT threads, Lower shaft, etc.)

1. Basic Pump Series

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SEAL-I	LESS MA	G-DRIVE	SE	ALED	Flow	Max Flow
Code	Metal	RYTON®	Code	RYTON®	Rate Code	(0 psi) GPM @ 1725 RPM
	Х				02	.5
RM1	X		R1		03	1.5
RIVIT	Х		Ki		04	2
	Х				06	3
		Х	S2	Х	03	1.5
		Х		Х	04	2
SM2		Х		Х	05	2.8
SIVIZ	Х	Х		Х	07	4
	Х	Х		Х	10	5.6
	Х	Х		Х	14	8
SM4	Х		S4		17	10
				Х	17	10
	Х			Х	23	15
0110	Х		S9	Х	30	20
SM9	Х			Х	35	23
	Х			Х	46	30

2. Housing and Shaft Material

CODE	HOUSING MATERIAL	SHAFT MATERIAL
1	316 Stainless Steel	316 Stainless Steel
3	Alloy C	Alloy C
6	RYTON [®]	316 Stainless Steel
9	RYTON [®]	Alloy C

TEFLON® is a registered trademark of DuPont, an equivalent fluoropolymer may be used RYTON® is a registered trademark of Chevron Phillips Chemical an equivalent polyphenylenesulfide may be used. PEEK® is a registered trademark of Victrex, an equivalent polyetheretheretone may be used. GRAFOLL® is a registered trademark of UCAR Carbon Technology, an equivalent may be used. VITON® is a registered trademark of DuPont Dow Elastomers, an equivalent fluoroelastomer may be used. KALREZ® is a registered trademark of DuPont Dow Elastomers, an equivalent perfluoroelastomer may be used. RULON® is a registered trademark of DuPont and the perfluoroelastomer may be used. RULON® is a registered trademark of Saint-Gobain, an equivalent compounded PTFE based material may be used.

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CODE	DRIVE	IDLE
1	RYTON [®]	RYTON [®]
2	316 SS	PEEK [®]
3	PEEK [®]	PEEK [®]
4	Alloy C	Alloy C
5	Alloy C	TEFLON [®]
6	W88	W88
7	TEFLON [®]	TEFLON [®]
8	W88	TEFLON [®]
9	Alloy C	PEEK [®]
Α	Alloy C	RYTON [®]
В	316 SS	RYTON [®]
С	W88	RYTON [®]
E	316 SS	316 SS
F	316 SS	TEFLON [®]
н	W88	PEEK [®]

4. Bearing Material

CODE	MATERIAL
С	Carbon Graphite Resin
P	TEFLON [®]
J	Rulon [®]

5. Shaft Seal

CODE		STYLE		MATERIAL			
CODE	SITLE			Rotary Head Stationary Head			
	Design	Seals	Case	Face	Elastomer	Face	O-Ring
В	Bellows	Single	316	Carbon	VITON®	Ceramic	VITON®
J	Bellows	Single	316	Silicon Carbide	EPDM	Silicon Carbide	EPDM
н	Bellows	Double	316	Carbon	VITON®	Ceramic	VITON®
z	Bellows	Single	316	Silicon Carbide	VITON®	Silicon Carbide	VITON®
Α	Wedge	Single	316	Carbon	TEFLON®	Ceramic	KALREZ [®]
С	Wedge	Single	316	Carbon	TEFLON®	Silicon Carbide	KALREZ®
D	Wedge	Single	Alloy C	Carbon	TEFLON®	Ceramic	KALREZ [®]
F	Wedge	Single	Alloy C	Carbon	TEFLON®	Silicon Carbide	KALREZ [®]
V	Wedge	Single	Alloy C	Silicon Carbide	TEFLON®	Silicon Carbide	KALREZ [®]
G	Wedge	Double	316	Carbon	TEFLON®	Silicon Carbide	KALREZ [®]
L	Two Lips S	eals	304	VITON [®] backed by TEFLON [®]			
N	Packing			TEFLON [®] with Graphite			
Р	Packing			GRAFOIL [®]			
Q	Packing			TEFLON [®]			
R	Packing with Lantern Ring		TEFLON [®] with Graphite				
s	Packing wi	th Lantern	Ring	GRAFOIL [®]			
т	Packing with Lantern Ring			TEFLON [®]			
w	MAG-COUPLED				Samariun	n Colbalt	

6. Additional Options

	CODE	OPTION	
	C1 through C7	Factory Installed Close Coupled Adapter	
	T1 through T13	Non-Metallic Gear - Temperature Trim	
	н	Tandem - High Flow	
	D	Tandem - Duplex	
	В	Bearing Flush Ports	
	E	BSPT Threads	
	L	Lower Shaft Drive	
	ХX	Specials - Consult Factory	
ve M1 -M7 Factory Installed Close Coupled Adapter - Mag			

3. Gear Material Combination

CODE	DRIVE	IDLE
1	RYTON [®]	RYTON [®]
2	316 SS	PEEK [®]
3	PEEK [®]	PEEK [®]
4	Alloy C	Alloy C
5	Alloy C	TEFLON [®]
6	W88	W88
7	TEFLON [®]	TEFLON [®]
8	W88	TEFLON [®]
9	Alloy C	PEEK [®]
A	Alloy C	RYTON [®]
В	316 SS	RYTON [®]
С	W88	RYTON [®]
E	316 SS	316 SS
F	316 SS	TEFLON [®]
н	W88	PEEK [®]

■ metallic or non-metallic

■ seal-less mag-drive

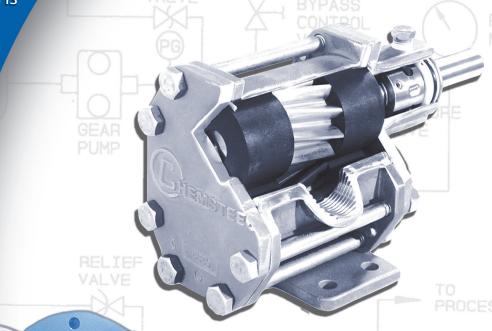
■ 17 shaft seal options

■ 1/2 to 30 GPM

helical gears



A Gardner Denver Product





Oberdorfer Pumps. An Industry Standard in Industrial, CPI and Marine Applications.

V

by

BI-DIRECTIONAL OPERATION For applications requiring reversing flow **OPTIONAL BEARING FLUSH PORTS** To extend bearing life when pumping

non-lubricating fluids or fluids with a

Gear & bearing combinations of metallic

• Slotted bearings to lubricate shaft and

• Hydraulic porting to balance axial thrust

and non-metallic wear surfaces

small degree of fine solids

EXTENDED LIFE

gear surfaces

and reduce wear

• Teflon® encapsulating silicone for sealing with a memory

SEAL HOUSINGS

lubrication

· Ported for flush, drain, barrier fluid and lantern packing

Access to seals without

UPPER DRIVE STANDARD

of trapped chemicals

drive configuration

• Easily converted to a lower

• Lends itself to in-line pump seal

maintenance without leakage

removal of cover

BODY/COVER STATIC O-RINGS

COMBINED BEARING & WEARPLATE

- Full size bearings match the gear diameter and eliminate the need for separate wear
- Gear trimming for desired flow rates
- Made of carbon-graphite, Teflon® or Rulon®

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

DYNAMIC SEAL OPTIONS INCLUDE

- Single or double mechanical wedge & bellows styles
- Standard compression packing

Chemsteel Magnetic

- Lantern Ring compression packing
- Lip seals

TANDEM PUMPS



- Tandem Pumps double the output flow for
- Or with isolation, handle different fluids in direct ratio to each other

METALLIC & NON-METALLIC

- Wide range of capability
- Effective weight and cost selection



CONSTRUCTION

BODY

Ryton[®], Polyphenylene 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.

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 316 SS, 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®

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

