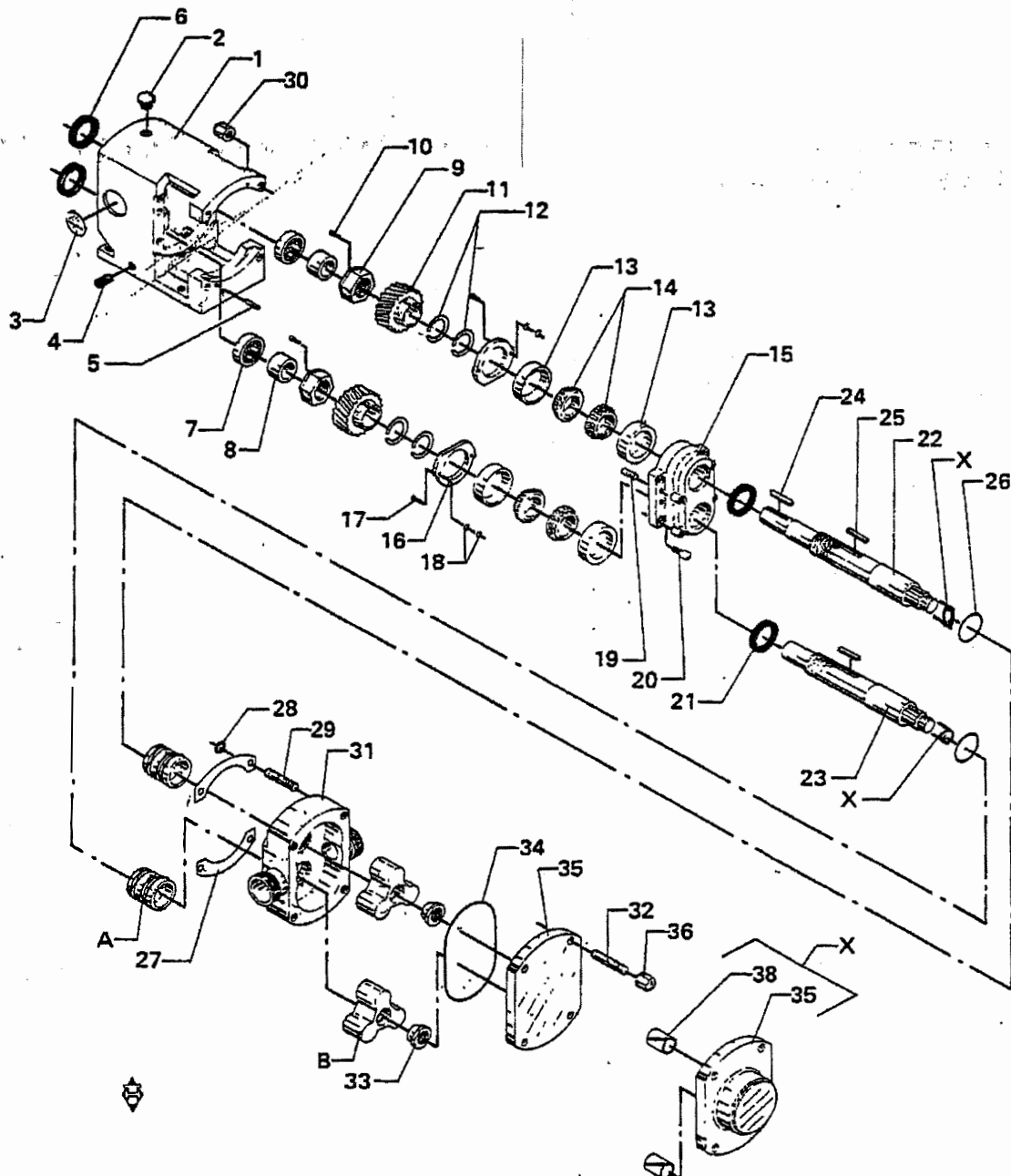


**GHP - Positive Rotary Pumps
Types 1000,1000X,2000,2000X**



GHP - Positive Rotary Pumps
Types 1000, 1000X, 2000, 2000X

		Description	1000	1000X	2000	2000x
1	1	Gear housing - cast iron (Std.)	31491-0001-7	31491-0001-7	31492-0001-7	31492-0001-7
	1	Gear housing - aluminium	31491-0001-3	31491-0001-3	31492-0001-3	31492-0001-3
2	1	Filler plug	31491-0052-1	31791-0052-1	31491-0052-1	31491-0052-1
3	1	Oil level glass - screw fit	31490-0057-1	31490-0057-1	31490-0057-1	31490-0057-1
	1	Oil level glass - press fit	31490-0050-1	31490-0050-1	31490-0050-1	31490-0050-1
4	1	Drain plug	31490-0051-1	31490-0051-1	31492-0051-1	31492-0051-1
5	2	Dowel	31499-5812-2	31499-5812-2	31499-5812-2	31499-5812-2
6	2	Oil seal - Nitrile	31491-0009-1	31491-0009-1	31492-0009-1	31492-0009-1
	2	Oil seal - Viton	31491-0009-2	31491-0009-2	31492-0009-2	31492-0009-2
7	2	Bearing - outer	31491-0010-3	31491-0010-3	31492-0010-3	31492-0010-3
8	2	Bearing - inner	31491-0010-2	31491-0010-2	31492-0010-2	31492-0010-2
	2	Bearing assy (pos. 7 and 8)	31491-0010-1	31491-0010-1	31492-0010-1	31492-0010-1
9	2	Nut	31491-0017-1	31491-0017-1	31492-0017-1	31492-0017-1
10	2	Screw	31491-0018-1	31491-0018-1	31499-5300-1	31499-5300-1
11	2	Timing gear	31491-0015-1	31491-0015-1	31492-0015-1	31492-0015-1
12	1	Shim set	31491-0048-9	31491-0048-9	31492-0048-9	31492-0048-9
13	4	Bearing cup	31491-0011-3	31491-0011-3	31492-0011-3	31492-0011-3
14	4	Bearing cone	31491-0011-2	31491-0011-2	31492-0011-2	31492-0011-2
	4	Bearing assy				
		(Pos. 13 and 14)	31491-0011-1	31491-0011-1	31492-0011-1	31492-0011-1
15	1	Bearing housing	31491-0005-3	31491-0005-3	31492-0005-3	31492-0005-3
16	2	Bearing retainer	31491-0012-2	31491-0012-2	31492-0012-2	31492-0012-2
17	4	Bolt	31499-5501-2	31499-5501-2		
	6	Bolt			31499-5501-2	31499-5501-2
18	1	Shim set	31491-0004-9	31491-0004-9	31492-0004-9	31492-0004-9
19	2	Dowel - size 1	31491-0007-1	31491-0007-1	31491-0007-1	31491-0007-1
	2	Dowel - size 2	31499-5808-2	31499-5808-2	31499-5808-2	31499-5808-2
	2	Dowel - size 3	31499-5811-2	31499-5811-2	31499-5811-2	31499-5811-2
20	4	Screw	31491-0006-2	31491-0006-2	31491-0006-2	31492-0006-2
21	2	Oil seal - Nitrile (Std.)	31491-0008-1	31491-0008-1	31492-0008-1	31492-0008-1
	2	Oil seal - Viton	31491-0008-2	31491-0008-2	31492-0008-2	31492-0008-2
	1	Drive shaft (1000-2000)				
	1	R.H. Thread - mech. Seal	31491-0019-1	31491-0020-1	31492-0019-1	31492-0020-1
	1	Drive shaft (1100-2100)				
	1	R.H. Thread - mech. Seal	31491-0034-1	31491-0035-1	31492-0034-1	31492-0035-1
	1	Drive shaft (1000-2000)				
	1	R.H. Thread - packed seal	31491-0019-2	31491-0020-2	31492-0019-2	31492-0020-2
	1	Drive shaft (1100-2100)				
	1	R.H. Thread - packed seal	31494-0034-2	31491-0035-2	31492-0034-2	31492-0035-2
	1	Drive shaft (1000-2000)				
	1	L.H. Thread - mech. Seal	31491-0019-3	31491-0020-3	31492-0019-3	31492-0020-3
	1	Drive shaft (1100-2100)				
	1	L.H. Thread - mech. Seal	31491-0034-3	31491-0035-3	31492-0034-3	31492-0035-3
	1	Drive shaft (1000-2000)				
	1	L.H. Thread - packed seal	31491-0019-4	31491-0020-4	31492-0019-4	31492-0020-4
	1	Drive shaft (1100-2100)				
	1	L.H. Thread - packed seal	31491-0034-4	31491-0035-4	31492-0034-4	31492-0035-4
23	1	Lay shaft (1000-2000)				
	1	R.H. Thread - mech. Seal	31491-0026-1	31491-0027-1	31492-0026-1	31492-0027-1
	1	Lay shaft (1100-2100)				
	1	R.H. Thread - mech. Seal	31491-0041-1	31491-0042-1	31492-0041-1	31492-0042-1
	1	Lay shaft (1000-2000)				
	1	R.H. Thread - packed seal	31491-0026-2	31491-0027-2	31492-0026-2	31492-0027-2
	1	Lay shaft (1100-2100)				
	1	R.H. Thread - packed seal	31491-0041-2	31491-0042-2	31492-0041-2	31492-0042-2
	1	Lay shaft (1000-2000)				
	1	L.H. Thread - mech. Seal	31491-0026-3	31491-0027-3	31492-0026-3	31492-0027-3
	1	Lay shaft (1100-2100)				
	1	L.H. Thread - mech. Seal	31491-0041-3	31491-0042-3	31492-0041-3	31492-0042-3
	1	Lay shaft (1000-2000)				
	1	L.H. Thread - Packed seal	31491-0026-4	31491-0027-4	31492-0026-4	31492-0027-4
	1	Lay shaft (1100-2100)				
	1	L.H. Thread - Packed seal	31491-0041-4	31491-0042-4	31492-0041-4	31492-0042-4



Reg. 2.3 SP70711 GH 8807



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GHP - Positive Rotary Pumps
Types 1000, 1000X, 2000, 2000X

A - For shaft seal assemblies refer to separate pages
B - For rotors refer to separate page

Pos.	Qty	Description	1000	1000X	2000	2000x
24	1	Key	31491-0049-1	31491-0049-1	31492-0049-1	31492-0049-1
25	2	Key	31491-0016-1	31491-0016-1	31492-0016-1	31492-0016-1
26	2	Thrower ring - EPDM (Std.)	31491-0210-5	31491-0210-5	31492-0248-5	31492-0248-5
	2	Thrower ring - Nitrile	31491-0210-1	31491-0210-1	31492-0248-1	31492-0248-1
	2	Thrower ring - Viton	31491-0210-2	31491-0210-2	31492-0248-2	31492-0248-2
	2	Thrower disc - PTFE	31499-2323-6	31499-2323-6	31499-2324-6	31499-2324-6
27	1	Shim set	31491-0107-9	31491-0107-9	31492-0107-9	31492-0107-9
28	4	Retaining ring - EPDM (Std.)	31499-5123-5	31499-5123-5	31499-5123-5	31499-5123-5
	4	Retaining ring - Viton	31499-5123-2	31499-5123-2	31499-5123-2	31499-5123-2
29	4	Stud	31491-0105-2	31491-0105-2	31491-0105-2	31491-0105-2
30	4	Nut	31491-0215-1	31491-0215-1	31491-0215-1	31491-0215-1
31*	1	Rotor case - 1015 W/GC	883-22044	883-22044		
	1	Rotor case - 1120 W/GC	883-22045	883-22045		
	1	Rotor case - 2020 W/GC			883-22046	883-22046
	1	Rotor case - 2025 W/GC			883-22047	883-22047
	1	Rotor case - 2130 W/GC			883-22048	883-22048
32	4	Stud	31491-0105-1	31491-0105-1	31491-0105-1	31491-0105-1
33	2	Nut - STD rotors - R.H.				
		Thread	31491-0133-3	31491-0133-3	31492-0133-3	31492-0133-3
	2	Nut - STD rotors - L.H.				
		Thread	31491-0133-2	31491-0133-2	31492-0133-2	31492-0133-2
	2	Nut - Hyflo rotors - R.H.				
		Thread	31491-0144-3	31491-0144-3	31492-0144-3	31492-0144-3 ✓
	2	Nut - Hyflo rotors - L.H.				
		Thread	31491-0144-2	31491-0144-2	31492-0144-2	31492-0144-2 ✓
34	1	Joint ring - EPDM (Std.)	31491-0214-5	31491-0214-5	31499-0470-5	31499-0470-5
	1	Joint ring - Nitrile	31491-0214-1	31491-0214-1	31499-0470-1	31499-0470-1
	1	Joint ring - Viton	31491-0214-2	31491-0214-2	31499-0470-2	31499-0470-2
	1	Joint ring - PTFE	31491-0214-6	31491-0214-6	31499-0470-6	31499-0470-6
35	1	Front cover	31491-0200-1	31491-0201-1	31492-0200-1	31492-0201-1
	1	Front cover - heating jacket	31491-0202-1		31492-0202-1	
36	4	Nut	31491-0215-1	31491-0215-1	31491-0215-1	31491-0215-1
	4	Nut - quick release	31491-0216-3	31491-0216-3	31491-0216-3	31491-0216-3
38	2	Strip bearing		31490-0217-1		31492-0217-1

883/555013

* Pos. 31 (Rotor case) - state connection/seal type, and if heating saddle screw holes are required. For enlarged inlets refer to separate page.

set screw for rotor nut 2000 + 3000
3149954091 (socket set screw m6x8mm)

Recommended spare parts: 6,7,8,12,13,14,18,21,27,33,34,38 and shaft seals



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Pinned Mechanical Seal
(Externally mounted)

Pos.	Qty	Description	EPDM (Std)	Nitrile	Viton	
Size 600						
	1	Shaft seal complete				
		Pos. 75-79	31490-0551-5	31490-0551-1	31490-0551-2	
75	1	Wave spring	31490-0508-1	31490-0508-1	31490-0508-1	
76	1	O-ring	31499-5002-5	31499-5002-1	31499-5002-2	
77	1	Rotary seal ring - carbon	31490-0506-2	31490-0506-2	31490-0506-2	
78	1	Static seat - stainless steel	31490-0501-1	31490-0501-1	31490-0501-1	
79	1	O-ring	31499-5001-5	31499-5001-1	31499-5001-2	
Size 1000						
	1	Shaft seal complete				
		Pos. 75-79	31491-0551-5	31491-0551-1	31491-0551-2	
75	1	Wave spring	31491-0508-1	31491-0508-1	31491-0508-1	
76	1	O-ring	31499-5008-5	31499-5008-1	31499-5008-2	
77	1	Rotary seal ring - carbon	31491-0506-2	31491-0506-2	31491-0506-2	
78	1	Static seat - stainless steel	31491-0501-1	31491-0501-1	31491-0501-1	
79	1	O-ring EPDM	31499-5007-5	31499-5007-1	31499-5007-2	
Size 2000						
	1	Shaft seal complete				
		Pos. 75-79	31492-0551-5	31492-0551-1	31492-0551-2	
75	1	Wave spring	31492-0508-1	31492-0508-1	31492-0508-1	
76	1	O-ring	31499-5010-5	31499-5010-1	31499-5010-2	
77	1	Rotary seal ring - carbon	31492-0506-2	31492-0506-2	31492-0506-2	
78	1	Static seat - stainless steel	31492-0501-1	31492-0501-1	31492-0501-1	
79	1	O-ring	31499-0823-5	31499-0823-1	31499-0823-2	
Size 3000						
	1	Shaft seal complete.				
		Pos. 75-79	31493-0551-5	31493-0551-1	31493-0551-2	
75	12	Coil spring	31493-0508-1	31493-0508-1	31493-0508-1	
76	1	O-ring	31499-0958-5	31499-0958-1	31499-0958-2	
77	1	Rotary seal ring - carbon	31493-0506-2	31493-0506-2	31493-0506-2	
78	1	Static seat - stainless steel	31493-0501-1	31493-0501-1	31493-0501-1	
79	1	O-ring	31499-0410-5	31499-0410-1	31499-0410-2	
Pos.	Qty	Description	600	1000	2000	3000
Alternative seal rings						
77	1	Rotary seal ring - silicon carbide	31490-0506-4	31491-0506-4	31492-0506-4	31493-0506-4
78	1	Static seat-silicon carbide	31490-0501-3	31491-0501-3	31492-0501-3	31493-0501-3
Other seal parts						
85	1	Spring retainer	31490-0509-1	31491-0509-1	31492-0509-1	31493-0509-1
86	4	Screw	31499-5402-1	31499-5402-1	31499-5406-1	31499-5407-1
106	2	Screw				31499-5225-1

SC/SC SEAL KIT
3149105745

3149205501 Q/S
3149205735 SC/SC
EPDM

Recommended spare parts: Shaft seals complete (Pos. 75 to 79) and pos. 86 (2 sets per pump)
(4 sets for series "R")



Reg. 2,3 SP70709-12 GH 8807



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