DYNEX
High Pressure Hydraulics

SERVICE
PARTS LIST

CHECKBALL PISTON PUMPS
PF500 SERIES, 11 DESIGN

PF5✳✳✳–✳✳✳✳✳–11

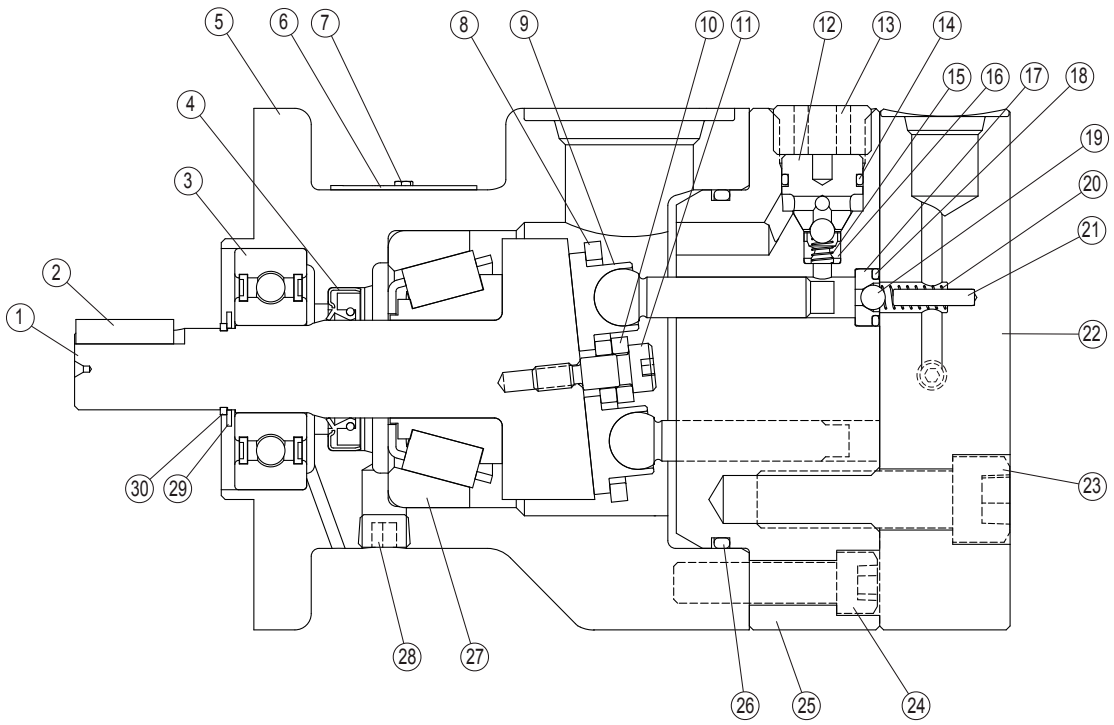

TABLE A – PARTS LIST

ID Number	Part Number	Part Description	Quantity Required
1	See Table B	Camshaft	1
2	1018.325	Key	0or1
3	1103.155	Shaft Bearing (Front)	1
4	See Table C	Shaft Seal	1
5	1218.277	Housing	1
6	1137.026	Nameplate	1
7	1001.003	Screw (Nameplate)	2
8	1448.101	Holdown Plate	1
9	See Table E	Piston Subassembly	2or4
10	1095.132	Spacer	1
11	1062.048	Shoulder Bolt①	1
12	1124.290	Inlet Check Seat	4
13	1577.006	Plug②	4
14	See Table C	O-ring (Inlet Check Seat)	4
15	See Table E	Spring (Inlet)⑥	2or4
16	See Table E	Inlet Ball Stop③⑥	2or4
17	1102.290	Outlet Check Seat	4
18	See Table C	O-ring (Outlet Check Seat)	4
19	1005.016	Checkball (Inlet/Outlet)⑧	6or8
20	1296.110	Spring (Outlet)	4
21	1123.061	Cover Pin⑦	4
22	See Table D	Cover	1
23	1383.028	Socket-head Capscrew④	4
24	1351.028	Socket-head Capscrew⑤	4
25	1239.050	Barrel	1
26	See Table C	O-ring	1
27	1102.155	Bearing	1
28	1007.245	Plug (Drain Port)	1
29	1156.108	Shim	1
30	1167.049	Retaining Ring	1

① *Apply Loctite #271 or equivalent. Torque to 66 lb•in (7 N•m).*
② *Torque to 45 lb•ft (61 N•m).*
③ *Apply Loctite #680 or equivalent.*
④ *Torque to 70 lb•ft (95 N•m).*
⑤ *Torque to 25 lb•ft (34 N•m).*
⑥ *Quantity equals number of pistons. See Table E.*
⑦ *Pin included in Cover Assembly Kit. See Table D.*
⑧ *Quantity equals number of pistons +4. See Table E.*

TABLE B – OUTPUT FLOW, CAMSHAFT

Output Flow Code	Cam Shaft	
	Keyed	Spline
01	1149.288	1159.288
04	1152.288	1162.288
07	1155.288	1165.288
10	1158.288	1168.288

TABLE C – SEAL KITS

Seal Code	Description	Kit Number
No Code	All Fluorocarbon (Viton® or Fluorel®) with Buna-N (Nitrile) Shaft Seal	KP05009010
XV	All Fluorocarbon (Viton® or Fluorel®) with High Pressure Shaft Seal	KP05009011
XE	All EPR with High Pressure Shaft Seal①	KP05009012

① *Contact the sales department for recommended operating conditions with EPR seals.*

TABLE D – PORT, COVER KITS

Port Code	Outlet Port Type	Cover Kit Number
No Code	Full Flow S.A.E.	KP05119050
A	Full Flow Coned and Threaded	KP05119051
B	Full Flow BSPP	KP05119052
No Code	2+2 Split Flow S.A.E.	KP05119220
A	2+2 Split Coned and Threaded	KP05119221
B	2+2 Split Flow BSPP	KP05119222
No Code	3+1 Split Flow S.A.E.	KP05119310
A	3+1 Split Flow Coned and Threaded	KP05119311
B	3+1 Split Flow BSP	KP05119312
No Code	4x Split Flow S.A.E.	KP051194X0
A	4x Split Coned and Threaded	KP051194X1
B	4x Split Flow BSPP	KP051194X2

TABLE E – PISTON, SEAT AND CHECK ITEMS

Item	Part Number	Description	Quantity
PF5XX(X)-XXX-XX-11			
9	3007.900	Piston Subassembly	4
15	1295.110	Spring (Inlet)	4
16	1104.290	Inlet Ball Stop	4
19	1005.016	Checkball (Inlet/Outlet)	8
PF5XX(X)-XXX-2-11①			
9	3007.900	Piston Subassembly	2
15	1295.110	Spring (Inlet)	2
16	1104.290	Inlet Ball Stop	2
19	1005.016	Checkball (Inlet/Outlet)	6

① *This 2 piston pump is available in Full Flow version only.*

TYPICAL MODEL CODE

PF5 — 01 — H – S — XV — A — – — 22 – 1 — 1

Pump Type	
PF5	Fixed Displacement Checkball Pump

Output Flow (At 1800 rpm, at rated pressure)①	
01	Standard: 0.21 gpm (0,79 L/min) "H" Option: 0.20 gpm (0,75 L/min)
04	Standard: 0.34 gpm (1,28 L/min) "H" Option: 0.32 gpm (1,22 L/min)
07	Standard: 0.46 gpm (1,76 L/min) "H" Option: 0.45 gpm (1,70 L/min)
10	Standard: 0.69 gpm (2,59 L/min) "H" Option: 0.67 gpm (2.52 L/min)

① *Output flows based on typical performance at rated pressure. Refer to performance curves for flows at lower pressures.*

Operating Pressure	
No Code	Standard Pressure
H	High Pressure①

① *Requires "A" or "B" port option.*

Drive Shaft	
No Code	Keyed, 0.625 inch (15,88 mm) diameter
S	S.A.E. Spline, 0.625 inch (15,88 mm)①

① *Contact the sales department for availability.*

Ports	
No Code	Inlet No. 12 S.A.E.; Outlet No. 6 S.A.E.①
A	Inlet No. 12 S.A.E.; Outlet 3/8 Medium Pressure Coned and Threaded, 0.5625-18 U.N.F.-2B Threaded②
B	Inlet No. 12 S.A.E.; Outlet G 1/4 (B.S.P.)③

① *Not recommended for operation above 8000 psi (560 bar). Contact the fitting manufacturer for the pressure rating of the fitting.*
② *High pressure port uses Autoclave Medium Pressure, Butech M/P or equivalent fitting.*
③ *Outlet port uses British Standard Pipe fitting. Not recommended for operation above 10 000 psi (700 bar).*

Split-Flow® Options (4 Piston Pump)①	
No Code	Full flow from single outlet
Split-Flow® Cover Models:	
22	Two-pistons output + Two-pistons output
31	Three-pistons output + One-piston output②
4X	Four ports, each with one-piston output
2	Two pistons output + Two inactive pistons

① *For outlet port sizes, locations and pump cover dimensions, contact the sales department.*
② *Port for outlet flow designated by first digit is located at the 12 o'clock position (for code "31", three-piston output flow exits the 12 o'clock port).*

Seals	
No Code	Fluorocarbon (Viton® or Fluorel®) Seals with Buna-N (Nitrile) Shaft Seal
XE	All EPR with High Pressure Shaft Seal①
XV	All Fluorocarbon (Viton® or Fluorel®) with High Pressure Shaft Seal

① *Not available with High Pressure "H" option. Contact the sales department for recommended operating conditions.*

Design Number

Modification Number

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