

Repair Kits for LPG/NH₃ Pumps and Compressors

The following lists of repair kits and seal assemblies for the LPG/NH₃ pump and compressor lines is a quick reference guide for finding replacement parts for normal wear items. For a complete parts list and instructions on how to disassemble and assemble,

consult the applicable Installation, Operation, and Maintenance (IOM) manual. NOTE: All equipment must be turned off and depressurized before any repairs are made. Only qualified personnel may dismantle, repair, and assemble Corken equipment.

Repair Kits for Sliding Vane Pumps (LPG/NH₃)¹

Pump Model Number	521E		1021E		Z2000, ZH2000, ZX2000, ZXH2000		Z3200, ZH3200		Z3500		Z4200, ZH4200, Z4500	
Repair Kit Part Number	2904-X26		2906-X26		3193-X16		3195-X16		3195-X26		3197-X16	
Description	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
Mechanical seal assembly	1769-XRA6	2	1769-XRA6	2	4431-XA6	2	4431-XA6	2	6660-XA6	2	4464-XA6	2
Blade	1168-7	10	1308-9	10	4428	6	4232	6	3936	6	4448	6
Blade driver	—	—	—	—	4262-X	3	4262-X	3	5554-X	6	4449-X	5
Shaft bearing	2754-X	2	2754-X	2	2754-X	2	2754-X	2	2754-X	2	4460-X	2
Thrust bearing	—	—	—	—	4432	2	4432	2	4432	2	4453	2
Thrust bearing mounting ring	—	—	—	—	4435	2	4435	2	4435	2	4454	1
Sideplate	1163-2	2	1209-1	2	—	—	—	—	—	—	—	—
Grease seal (outer)	1358	2	1358	2	4441	2	4441	2	4441	2	4463	2
Grease seal (inner)	—	—	—	—	4438	2	4438	2	4438	2	4462	2
Case O-ring—Buna-N	2-261A	2	2-268A	2	2-261A	2	2-261A	2	2-268A	2	2-270A	2
Flange O-ring—Buna-N	2-234A	2	2-245A	2	2-231A	2	2-234A	2	2-245A	1	2-231A	2
Flange O-ring—Buna-N	—	—	2-249A	2	—	—	—	—	2-259A	1	2-234A	1
Relief valve O-ring—Buna-N	2-224A	1	2-228A	1	2-224A	1	2-224A	1	2-228A	1	2-234A	1
Relief valve O-ring—Buna-N	2-112A	1	2-112A	1	—	—	—	—	—	—	—	—
Shim (0.002)	—	—	—	—	4439	8	4439	8	4439	8	4458	8
Shim (0.010)	—	—	—	—	4439-1	2	4439-1	2	4439-1	2	4458-1	2
Shim (0.020)	—	—	—	—	4439-2	2	4439-2	2	4439-2	2	4458-2	2
Shaft key	—	—	—	—	2270	1	2270	1	2270	1	4459	1

Rebuild Kits for Sliding Vane Pumps (LPG/NH₃)

Contains everything in the repair kits listed above plus the parts shown in the table below.

Pump Model Number	521E		1021E		Z2000, ZH2000, ZX2000, ZXH2000		Z3200, ZH3200		Z3500		Z4200, ZH4200, Z4500	
Rebuild Kit Part Number	No kit ²		No kit ²		3194-X16		3196-X16		3196-X26		3198-X16	
Description	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
Cam	1162-2	1	1201-2	1	4414	1	4242	1	5539	1	4443	1
Sideplate	—	—	—	—	4427	2	4231	2	3935	2	4446	2

Full Rebuild Kits for Sliding Vane Pumps (LPG/NH₃)

Contains everything in the rebuild kits listed above plus the parts shown in the table below.

Pump Model Number	521E		1021E		Z2000, ZH2000, ZX2000, ZXH2000		Z3200, ZH3200		Z3500		Z4200, ZH4200, Z4500	
Full Rebuild Kit Part Number	No kit ²		No kit ²		3194-X36		3196-X36		3196-X46		3198-X36	
Description	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
Rotor shaft assembly	1166-1X1R	1	1208-1X1R	1	4430-X2R	1	4495-X2R	1	1208-1X6R	1	4444-X2R	1

¹ All kits are furnished with Buna-N O-rings which are suitable for LPG and NH₃ applications.

² For rebuild kits and full rebuild kits for 521E and 1021E pumps, purchase the repair kit listed above and the additional parts shown in this table.

Seal Assembly Repair Kits for Turbine Pumps (LPG/NH₃)¹

Pump Model Number	10, 12, 13, 14, 16, 17 (C, F, DL versions)		060, 075, 150 (FF, FD, DLF, DLD versions)	
Seal Assembly Part Number	113-CXA6		3189-1XA6	
Description	Part No.	Qty.	Part No.	Qty.
Mechanical seal assembly ²	2296-XA6	1	5242-1XA6	1
Impeller key	2497	1	4244	1
Cover O-ring—Buna-N	2-246A	1	2-260A	1
Seal housing O-ring—Buna-N	2-224A	1	2-113A	1
Shaft O-ring—Buna-N	2-118A	1	2-018A	1
Seal follower O-ring—Buna-N	2-018A	1	—	—
Case clearance shim (0.002)	1014	1	—	—
Case clearance shim (0.003)	1014-1	1	—	—
Retainer ring	—	—	2760-88	2

Repair Kits for Reciprocating Compressors (LPG/NH₃)

Compressor Model	91		291M		491M		691M		D/FD891M	
Repair Kit Part Number	3549-X1		3550-X1		3551-X1		3552-X2		5578-X2A	
Description	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
Suction valve assembly	3483-1X	1	3483-1X	2	2532-1X	2	3948-2X	2	3856-2X	4
Discharge valve assembly	3485-X	1	3485-X	2	2439-X	2	3857-2X	2	3857-2X	4
Piston ring	1772	3	1772	6	1773	6	1739	6	1739	8
Piston ring expander	1775	3	1775	6	1776	6	1740	6	1740	8
Packing set—V-ring	1452-1X1	1	1452-1X1	2	1452-1X1	2	1725-2X	2	1725-2X	2
Packing set—segmented	—	—	—	—	—	—	—	—	3810-1X	2
Connecting rod bearing (pair)	1367	1	1367	2	1491	2	3542	2	3542	2
Gasket set	2526-XA	1	1281-XA	1	1481-X6A	1	1744-X1A	1	3970-1XA	1
Oil seal	3259	1	1278	1	4438	1	3526	1	3526	1
Oil deflector ring	—	—	—	—	—	—	—	—	1732	2

Repair Kits for Bypass Valves (LPG/NH₃)¹

Kit Number	Valve Model	Contents	Description
5150-XA	B166B 3/4" or 1" with "B" spring (50–150 psi range)	1251	Valve, steel—B166B
		1137	Ball—B166B
		1139	Ball spring—B166B/B235
		2-217A	O-ring, Buna-N
		2-224A	O-ring, Buna-N
		2732	Center headbolt gasket
5151-XA	B166B 3/4" or 1" with "C" spring (100–225 psi range)	1251	Valve, steel—B166B
		1137	Ball—B166B
		2035	Ball spring—B166B
		2-217A	O-ring, Buna-N
		2-224A	O-ring, Buna-N
		2732	Center headbolt gasket
5152-XA	T166 All sizes	2215	Valve—T166
		2-217A	O-ring, Buna-N
		2-224A	O-ring, Buna-N
		2732	Center headbolt gasket
5153-XA	B177 2" and 2.5"	1699-X	Plunger assembly—B177-2/2.5
		1887	Stem seal
		1789	Stem washer—B177
		5133-87	Retainer ring
		2-234A (2)	O-ring, Buna-N
5154-XA	ZV200 All sizes	5509	Relief valve—ZV200
		2732	Center headbolt gasket—steel
		2-223A	O-ring, Buna-N
		2-234A (2)	O-ring, Buna-N
		2-235A	O-ring, Buna-N

NOTE: Quantities larger than 1 are shown in parenthesis.

¹ All kits are furnished with Buna-N O-rings which are suitable for LPG and NH₃ applications.

² Seal assembly includes silicon carbide seal seat.

Solutions beyond products...

CORKEN

CORKEN, INC. • A Unit of IDEX Corporation
3805 N.W. 36th St., Oklahoma City, OK 73112 U.S.A.
Phone (405) 946-5576 • FAX (405) 948-7343
Visit our website at www.corken.com
E-mail us at cocsalesdept@idexcorp.com



@CorkenInc

