

* * ENGINEERING CODEBOOK * *

THROUGH THE USE OF THIS CATALOG ALL THE COMPONENT PARTS OF ANY PERMCO PUMP OR MOTOR CAN BE DETERMINED EXCLUDING FASTENERS.

THE FOLLOWING SERIES ARE INCLUDED:

1500 197 2100 257 **2500** 3000 3100 3700 5000 5100 7500 AND 7600.

EACH MODEL SERIES IS DIVIDED IN THE FOLLOWING MANNER:

- I. SHAFT END COVERS FOLLOWED BY SHAFT END COVER SMALL PARTS.
- II. PORT END COVERS FOLLOWED BY PORT END COVER SMALL PARTS.
- III. GEAR HOUSINGS FOLLOWED BY:
 - A. GEAR HOUSING SMALL PARTS.
 - B. GEARS.
- IV. DRIVE SHAFTS OR GEAR/SHAFTS FOLLOWED BY DRIVE SHAFT SMALL PARTS.
- V. BEARING CARRIERS FOLLOWED BY BEARING CARRIER SMALL PARTS.
- VI. CONNECTING SHAFTS.

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BELOW IS AN EXAMPLE OF HOW TO USE THIS CATALOG:

SINGLE ASSEMBLY CODE: P2500A031ADHS25-14

TANDEM ASSEMBLY CODE: P2500A031AHHS25-14BHI12-1

P DENOTES PUMP (M DENOTES MOTOR)

2500 SERIES

A OR B MODEL TYPE (A-SINGLE, B-TANDEM)

031 SHAFT END COVER

AD PORT END COVER

HS20 GEAR HOUSING (FIRST)

14 DRIVE SHAFT

B BEARING CARRIER

HI12 GEAR HOUSING (SECOND)

1 CONNECTING SHAFT

THE ROTATION OF ANY UNIT IS IDENTIFIED BY THE FIRST DIGIT OF THE SHAFT END COVER CODE (SEE INDIVIDUAL SERIES COVER PAGES). THE GEAR SIZE IS DENOTED BY THE TWO (2) DIGITS IN THE GEAR HOUSING CODE.

CODE :	05	07	10	12	15	17	20	22	25
SIZE IN INCHES:	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2

ROTATION IS VIEWED LOOKING AT SHAFT END (SHAFT ON TOP.)

AN ASTERISK (*) DENOTES EITHER OBSOLETE OR SPECIAL. PLEASE CONSULT FACTORY AS THEY MAY BE REPLACED BY OTHER STANDARD ITEMS.

* * ABBREVIATIONS USED IN PART DESCRIPTIONS * *

SHAFT END COVER DESCRIPTIONS

FT MT FOOT MOUNT
 G F TOP GREASE FITTING ON TOP (OTHERS ON BOTTOM)
 PAD MT PAD MOUNT
 PB PIGGYBACK PUMP
 PD PILOT DIAMETER
 PX PILOT EXTENSION
 RD FLG ROUND FLANGE
 W/MTG SLT WITH MOUNTING SLOT
 WD WITH DRAIN
 WD2 WITH DRAIN AT 2 OCLOCK POSITION
 WD8 WITH DRAIN AT 8 OCLOCK POSITION
 WD12 WITH DRAIN AT 12 OCLOCK POSITION
 W2D WITH 2 DRAINS

PORT END COVER DESCRIPTIONS

OS PORTS ARE OUT THE SIDE
 PB PIGGYBACK PUMP
 XSD EXTENDED STUDS

SHAFT DESCRIPTIONS

T TOOTH
 PB PIGGYBACK PUMP
 W/THD END WITH THREADED END

PORTING DESCRIPTIONS

ORB STRAIGHT THREAD. PORT SIZE REFERS TO O.D. OF TUBE.
 SF SPLIT FLANGE PORTS. PORT SIZE REFERS TO FLANGE HOLE DIAMETER.
 T INTERNAL CONNECTIONS TO FRONT & BACK SECTION.
 B CONNECTION TO BACK SECTION.
 F CONNECTION TO FRONT SECTION.

 * *
 * 2500 SERIES *
 * *

SERIES IDENTIFICATION

STUD HOLES - 4 AT 11/16 DIAMETER
 STUD DIA. - 5/8 IN.
 SEPARATE DRIVE SHAFT
 HOUSING HEIGHT - 6 INCHES
 HOUSING WIDTH - GEAR SIZE + 3/4 INCH
BOLT TORQUE - 200 FT-LBS

GEAR WIDTHS AVAILABLE

1/4 1/2 3/4 1 1-1/4 1-1/2 1-3/4 2 2-1/4 AND 2-1/2 INCHES

SHAFT END COVERS

THE TYPE OF SHAFT END COVER IS DETERMINED BY THE ENTIRE 3 DIGIT DESIGNATION.
 THERE ARE THREE BASIC TYPES OF SHAFT END COVERS WHICH ARE DIFFERENTIATED BY THE BEARING CONFIGURATION.

- TYPE I - SINGLE OUTBOARD TAPERED ROLLER BEARING.
- TYPE II - SINGLE OUTBOARD STRAIGHT ROLLER BEARING FOR RADIAL LOADS PLUS A THRUST BEARING.
- TYPE III - DOUBLE OUTBOARD TAPERED ROLLER BEARING USED WHEN SUBJECTED TO A HEAVY SIDE OR OVERHUNG LOAD.

THE FIRST DIGIT OF THE SHAFT END COVER CODE DESIGNATES PUMP/MOTOR ROTATION.

		<u>CW</u>	<u>CCW</u>	<u>DBL</u>	<u>PUMP</u>	<u>MOTOR</u>	<u>TYPE</u>	<u>DRAIN</u>
ALL CODES BEGINNING WITH	0	XX			XX		I II	
	1		XX		XX		I II	
	2			XX	XX		I II	
	3	XX			XX		III	
	4		XX		XX		III	
	5			XX	XX		III	
	6			XX		XX	I II	XX
	7			XX		XX	III	XX
	8			XX		XX	I II	

THE SHAFT END COVER TYPE AND DRIVE SHAFT TYPE MUST HAVE THE SAME NUMBER DESIGNATION.

HOUSINGS

1. CODES MARKED ' ARE FOR LOW PRESSURE INLET PORT ONLY.
2. CODES MARKED + ARE GOOD FOR PRESSURES UP TO 2000 PSI. APPLIES TO SMALLEST PORT.
3. NPT THREADS ARE NOT RECOMMENDED FOR USE AT PRESSURES EXCEEDING 2000 PSI.
4. ORB PORTS ARE RECOMMENDED FOR USE AT PRESSURES UP TO 2500 PSI.
FOR HIGHER PRESSURES CONSULT FACTORY.
5. SPLIT FLANGE PORTS ARE RECOMMENDED FOR PRESSURES ABOVE 2500 PSI.
CONSULT FACTORY FOR CORRECT PORTING.

BEARING CARRIER FLOW

FLOW FROM BEARING CARRIER SIDE PORT TO GEAR HOUSING SHOULD NOT EXCEED 21 GPM ON THE SUCTION SIDE OR 40 GPM ON THE PRESSURE SIDE.

MULTIPLE UNITS

MULTIPLE UNITS REQUIRE ONE SHAFT SPACER FOR EACH SECTION ONE W78-05 LOCK NUT AND 3/8-16 X 3 FOOT THREADED ROD. (NOT LISTED UNDER CODING). THE SPACER IS DETERMINED BY THE GEAR SIZE.

<u>GEAR SIZE</u>	<u>SPACER NUMBER</u>	<u>SPACER THICKNESS</u>
1/2 IN.	SZ-0408-1	1/8 IN.
3/4 IN.	SZ-0408-2	3/8 IN.
1 IN.	SZ-0408-3	5/8 IN.
1-1/4 IN.	SZ-0408-4	7/8 IN.
1-1/2 IN.	SZ-0408-5	1-1/8 IN.
1-3/4 IN.	SZ-0408-6	1-3/8 IN.
2 IN.	SZ-0408-7	1-5/8 IN.
2-1/4 IN.	SZ-0408-8	1-7/8 IN.
2-1/2 IN.	SZ-0408-9	2-1/8 IN.

PERMCO MODEL: 2500

Shaft End Covers

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
030	1	SZ-0575-5	CW TYPE I 4 BOLT 3.748 PD	296	1	BA-0574-3	DR TYPE II 4 BOLT RD .130 PX
031	1	SZ-0575-3	CW TYPE I 4 BOLT SAE B	299	1	RZ-0575-3	DR TYPE I PAD MT
039	1	SZ-0575-6	CW TYPE I 4 BOLT 3.249 PD	331	1	KA-0575-3	CW TYPE III 4 BOLT SAE B
067	1	WZ-0575-3	CW TYPE I 4 BOLT SAE C	367	1	UA-0575-3	CW TYPE III 4 BOLT SAE C
086	1	TZ-0575-3	CW TYPE I 2 BOLT SAE B	386	1	RA-0575-3	CW TYPE III 2 BOLT SAE B
087	1	XZ-0575-3	CW TYPE I 2 BOLT SAE C	387	* 1	SA-0575-3	CW TYPE III 2 BOLT SAE C
090	1	RZ-0575-4	CW TYPE I PAD MT W/MTG SLT	399	1	LA-0575-3	CW TYPE III PAD MT
091	1	YZ-0575-3	CW TYPE I 2 BOLT SPECIAL	431	1	KA-0575-3	CCW TYPE III 4 BOLT SAE B
092	1	AA-0575-3	CW TYPE I 6 BOLT RD FLG	467	1	UA-0575-3	CCW TYPE III 4 BOLT SAE C
093	1	BA-0574-4	CW TYPE II 4 BOLT RD .268 PX	486	1	RA-0575-3	CCW TYPE III 2 BOLT SAE B
094	1	BA-0574	CW TYPE II 6 BOLT RD FLG	487	* 1	SA-0575-3	CCW TYPE III 2 BOLT SAE C
095	1	WZ-0575-5	CW TYPE I 4 BOLT 4.748 PD	499	1	LA-0575-3	CCW TYPE III PAD MT
096	1	BA-0574-3	CW TYPE II 4 BOLT RD .130 PX	531	1	KA-0575-3	DR TYPE III 4 BOLT SAE B
099	1	RZ-0575-3	CW TYPE I PAD MT	567	1	UA-0575-3	DR TYPE III 4 BOLT SAE C
130	1	SZ-0575-5	CCW TYPE I 4 BOLT 3.748 PD	586	1	RA-0575-3	DR TYPE III 2 BOLT SAE B
131	1	SZ-0575-3	CCW TYPE I 4 BOLT SAE B	587	* 1	SA-0575-3	DR TYPE III 2 BOLT SAE C
139	1	SZ-0575-6	CCW TYPE I 4 BOLT 3.249 PD	599	1	LA-0575-3	DR TYPE III PAD MT
167	1	WZ-0575-3	CCW TYPE I 4 BOLT SAE C	631	1	SZ-0575-7	DR TYPE I 4 BOLT SAE B
186	1	TZ-0575-3	CCW TYPE I 2 BOLT SAE B	667	1	WZ-0575-8	DR TYPE I 4 BOLT SAE C
187	1	XZ-0575-3	CCW TYPE I 2 BOLT SAE C	686	1	TZ-0575-5	DR TYPE I 2 BOLT SAE B
190	1	RZ-0575-4	CCW TYPE I PAD MT W/MTG SLT	687	1	XZ-0575-5	DR TYPE I 2 BOLT SAE C
191	1	YZ-0575-3	CCW TYPE I 2 BOLT SPECIAL	690	1	RZ-0575-6	DR TYPE I PAD MT W/MTG SLT
192	1	AA-0575-3	CCW TYPE I 6 BOLT RD FLG	692	1	AA-0575-7	DR TYPE I 6 BOLT RD FLG
193	1	BA-0574-4	CCW TYPE II 4 BOLT RD .268 PX	693	1	BA-0574-8	DR TYPE II 4 BOLT RD FLG
194	1	BA-0574	CCW TYPE II 6 BOLT RD FLG	694	1	BA-0574-7	DR TYPE II 6 BOLT RD FLG
195	1	WZ-0575-5	CCW TYPE I 4 BOLT 4.748 PD	699	1	RZ-0575-7	DR TYPE I PAD MT
196	1	BA-0574-3	CCW TYPE II 4 BOLT RD .130 PX	731	1	KA-0575-3	DR TYPE III 4 BOLT SAE B
199	1	RZ-0575-3	CCW TYPE I PAD MT	732	1	KA-0575-4	DR TYPE III 4 BOLT SAE B W2D
230	1	SZ-0575-5	DR TYPE I 4 BOLT 3.748 PD	767	1	UA-0575-3	DR TYPE III 4 BOLT SAE C
231	1	SZ-0575-3	DR TYPE I 4 BOLT SAE B	786	1	RA-0575-3	DR TYPE III 2 BOLT SAE B
239	1	SZ-0575-6	DR TYPE I 4 BOLT 3.249 PD	787	* 1	SA-0575-3	DR TYPE III 2 BOLT SAE C
267	1	WZ-0575-3	DR TYPE I 4 BOLT SAE C	799	1	LA-0575-3	DR TYPE III PAD MT
286	1	TZ-0575-3	DR TYPE I 2 BOLT SAE B	830	1	SZ-0575-5	DR TYPE I 4 BOLT 3.748 PD
287	1	XZ-0575-3	DR TYPE I 2 BOLT SAE C	831	1	SZ-0575-3	DR TYPE I 4 BOLT SAE B
290	1	RZ-0575-4	DR TYPE I PAD MT W/MTG SLT.	839	1	SZ-0575-6	DR TYPE I 4 BOLT 3.249 PD
291	1	YZ-0575-3	DR TYPE I 2 BOLT SPECIAL	867	1	WZ-0575-3	DR TYPE I 4 BOLT SAE C
292	1	AA-0575-3	DR TYPE I 6 BOLT RD FLG	882	1	XZ-0575-4	DR TYPE I 2 BOLT SAE C W2D
293	1	BA-0574-4	DR TYPE II 4 BOLT RD. .268 PX	884	1	TZ-0575-4	DR TYPE I 2 BOLT SAE B W2D
294	1	BA-0574	DR TYPE II 6 BOLT RD FLG	886	1	TZ-0575-3	DR TYPE I 2 BOLT SAE B
295	1	WZ-0575-5	DR TYPE I 4 BOLT 4.748 PD	887	1	XZ-0575-3	DR TYPE I 2 BOLT SAE C

PERMCO MODEL: 2500**Shaft End Covers**

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
890	1	RZ-0575-4	DR TYPE I PAD MT W/MTG SLT
891	1	YZ-0575-3	DR TYPE I 2 BOLT SPECIAL
892	1	AA-0575-3	DR TYPE I 6 BOLT RD FLG
893	1	BA-0574-4	DR TYPE II 4 BOLT RD .268 PX
894	1	BA-0574	DR TYPE II 6 BOLT RD FLG
895	1	WZ-0575-5	DR TYPE I 4 BOLT 4.748 PD
896	1	BA-0574-3	DR TYPE II 4 BOLT RD .130 PX
899	1	RZ-0575-3	DR TYPE I PAD MT

PERMCO MODEL: 2500

SHAFT END COVER SMALL PARTS

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
030	1	K-2995-26	2500 3000 5000 O'RING	086	1	Z-0216-182	SPRING
030	2	R-0921	CROWNED ROLLER BRGN	086	1	ZG-1909	SHAFT BUSHING
030	1	RZ-0558	2500 SEAL RETAINER				
030	1	S-0280	PLUG	087	1	K-2995-26	2500 3000 5000 O'RING
030	1	V-0961	2500 RETAINER RING	087	2	R-0921	CROWNED ROLLER BRGN
030	1	W015-7	BEARING	087	1	RZ-0558	2500 SEAL RETAINER
030	1	W62-26-13	DOUBLE LIP SEAL	087	1	S-0280	PLUG
030	1	Z-0216-182	SPRING	087	1	V-0961	2500 RETAINER RING
030	1	ZG-1909	SHAFT BUSHING	087	1	W015-7	BEARING
				087	1	W62-26-13	DOUBLE LIP SEAL
031	1	K-2995-26	2500 3000 5000 O'RING	087	1	Z-0216-182	SPRING
031	2	R-0921	CROWNED ROLLER BRGN	087	1	ZG-1909	SHAFT BUSHING
031	1	RZ-0558	2500 SEAL RETAINER				
031	1	S-0280	PLUG	090	1	K-2995-26	2500 3000 5000 O'RING
031	1	V-0961	2500 RETAINER RING	090	2	R-0921	CROWNED ROLLER BRGN
031	1	W015-7	BEARING	090	1	RZ-0558	2500 SEAL RETAINER
031	1	W62-26-13	DOUBLE LIP SEAL	090	1	S-0280	PLUG
031	1	Z-0216-182	SPRING	090	1	V-0961	2500 RETAINER RING
031	1	ZG-1909	SHAFT BUSHING	090	1	W015-7	BEARING
				090	1	W62-26-13	DOUBLE LIP SEAL
039	1	K-2995-26	2500 3000 5000 O'RING	090	1	Z-0216-182	SPRING
039	2	R-0921	CROWNED ROLLER BRGN	090	1	ZG-1909	SHAFT BUSHING
039	1	RZ-0558	2500 SEAL RETAINER				
039	1	S-0280	PLUG	091	1	K-2995-26	2500 3000 5000 O'RING
039	1	V-0961	2500 RETAINER RING	091	2	R-0921	CROWNED ROLLER BRGN
039	1	W015-7	BEARING	091	1	RZ-0558	2500 SEAL RETAINER
039	1	W62-26-13	DOUBLE LIP SEAL	091	1	S-0280	PLUG
039	1	Z-0216-182	SPRING	091	1	V-0961	2500 RETAINER RING
039	1	ZG-1909	SHAFT BUSHING	091	1	W0-1	PIPE PLUG
				091	1	W015-7	BEARING
067	1	K-2995-26	2500 3000 5000 O'RING	091	1	W62-26-13	DOUBLE LIP SEAL
067	2	R-0921	CROWNED ROLLER BRGN	091	1	Z-0216-182	SPRING
067	1	RZ-0558	2500 SEAL RETAINER	091	1	ZG-1909	SHAFT BUSHING
067	1	S-0280	PLUG				
067	1	V-0961	2500 RETAINER RING	092	1	K-2995-26	2500 3000 5000 O'RING
067	1	W015-7	BEARING	092	2	R-0921	CROWNED ROLLER BRGN
067	1	W62-26-13	DOUBLE LIP SEAL	092	1	RZ-0558	2500 SEAL RETAINER
067	1	Z-0216-182	SPRING	092	1	S-0280	PLUG
067	1	ZG-1909	SHAFT BUSHING	092	1	V-0961	2500 RETAINER RING
				092	1	W015-7	BEARING
086	1	K-2995-26	2500 3000 5000 O'RING	092	1	W62-26-13	DOUBLE LIP SEAL
086	2	R-0921	CROWNED ROLLER BRGN	092	1	Z-0216-182	SPRING
086	1	RZ-0558	2500 SEAL RETAINER	092	1	ZG-1909	SHAFT BUSHING
086	1	S-0280	PLUG				
086	1	V-0961	2500 RETAINER RING	093	1	FZ-0961	BEARING SLEEVE
086	1	W015-7	BEARING	093	1	K-2995-109	O'RING
086	1	W62-26-13	DOUBLE LIP SEAL	093	2	R-0921	CROWNED ROLLER BRGN

PERMCO MODEL: 2500

SHAFT END COVER SMALL PARTS

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
093	1	S-0280	PLUG	099	1	Z-0216-182	SPRING
093	1	W-0921	NEEDLE BEARING	099	1	ZG-1909	SHAFT BUSHING
093	1	W023-206	SPIROLOX SNAP RING				
093	1	W051-D9	THRUST BEARING	130	1	K-2995-26	2500 3000 5000 O'RING
093	1	W62-26-15	DOULBE LIP SEAL	130	2	R-0921	CROWNED ROLLER BRGN
093	1	Z-0216-182	SPRING	130	1	RZ-0558	2500 SEAL RETAINER
093	1	ZG-1909	SHAFT BUSHING	130	1	S-0280	PLUG
				130	1	V-0961	2500 RETAINER RING
094	1	FZ-0961	BEARING SLEEVE	130	1	W015-7	BEARING
094	1	K-2995-109	O'RING	130	1	W62-26-13	DOUBLE LIP SEAL
094	2	R-0921	CROWNED ROLLER BRGN	130	1	Z-0216-182	SPRING
094	1	S-0280	PLUG	130	1	ZG-1909	SHAFT BUSHING
094	1	W-0921	NEEDLE BEARING				
094	1	W023-206	SPIROLOX SNAP RING	131	1	K-2995-26	2500 3000 5000 O'RING
094	1	W051-D9	THRUST BEARING	131	2	R-0921	CROWNED ROLLER BRGN
094	1	W62-26-15	DOULBE LIP SEAL	131	1	RZ-0558	2500 SEAL RETAINER
094	1	Z-0216-182	SPRING	131	1	S-0280	PLUG
094	1	ZG-1909	SHAFT BUSHING	131	1	V-0961	2500 RETAINER RING
094	1	W0-19	PIPE PLUG 1/8-27 NPT	131	1	W015-7	BEARING
				131	1	W62-26-13	DOUBLE LIP SEAL
095	1	K-2995-26	2500 3000 5000 O'RING	131	1	Z-0216-182	SPRING
095	2	R-0921	CROWNED ROLLER BRGN	131	1	ZG-1909	SHAFT BUSHING
095	1	RZ-0558	2500 SEAL RETAINER				
095	1	S-0280	PLUG	139	1	K-2995-26	2500 3000 5000 O'RING
095	1	V-0961	2500 RETAINER RING	139	2	R-0921	CROWNED ROLLER BRGN
095	1	W015-7	BEARING	139	1	RZ-0558	2500 SEAL RETAINER
095	1	W62-26-13	DOUBLE LIP SEAL	139	1	S-0280	PLUG
095	1	Z-0216-182	SPRING	139	1	V-0961	2500 RETAINER RING
095	1	ZG-1909	SHAFT BUSHING	139	1	W015-7	BEARING
				139	1	W62-26-13	DOUBLE LIP SEAL
096	1	FZ-0961	BEARING SLEEVE	139	1	Z-0216-182	SPRING
096	1	K-2995-109	O'RING	139	1	ZG-1909	SHAFT BUSHING
096	1	R-0921	CROWNED ROLLER BRGN				
096	1	S-0280	PLUG	167	1	K-2995-26	2500 3000 5000 O'RING
096	1	W-0921	NEEDLE BEARING	167	2	R-0921	CROWNED ROLLER BRGN
096	1	W023-206	SPIROLOX SNAP RING	167	1	RZ-0558	2500 SEAL RETAINER
096	1	W051-D9	THRUSHT BEARING	167	1	S-0280	PLUG
096	1	W62-26-15	DOUBLE LIP SEAL	167	1	V-0961	2500 RETAINER RING
096	1	Z-0216-182	SPRING	167	1	W015-7	BEARING
096	1	ZG-1909	SHAFT BUSHING	167	1	W62-26-13	DOUBLE LIP SEAL
				167	1	Z-0216-182	SPRING
099	1	K-2995-26	2500 3000 5000 O'RING	167	1	ZG-1909	SHAFT BUSHING
099	2	R-0921	CROWNED ROLLER BRGN				
099	1	RZ-0558	2500 SEAL RETAINER	186	1	K-2995-26	2500 3000 5000 O'RING
099	1	S-0280	PLUG	186	2	R-0921	CROWNED ROLLER BRGN
099	1	V-0961	2500 RETAINER RING	186	1	RZ-0558	2500 SEAL RETAINER
099	1	W015-7	BEARING	186	1	S-0280	PLUG
099	1	W62-26-13	DOUBLE LIP SEAL	186	1	V-0961	2500 RETAINER RING

PERMCO MODEL: 2500

SHAFT END COVER SMALL PARTS

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
186	1	W015-7	BEARING	193	1	FZ-0961	BEARING SLEEVE
186	1	W62-26-13	DOUBLE LIP SEAL	193	1	K-2995-109	O'RING
186	1	Z-0216-182	SPRING	193	2	R-0921	CROWNED ROLLER BRGN
186	1	ZG-1909	SHAFT BUSHING	193	1	S-0280	PLUG
				193	1	W-0921	NEEDLE BEARING
187	1	K-2995-26	2500 3000 5000 O'RING	193	1	W023-206	SPIROLOX SNAP RING
187	2	R-0921	CROWNED ROLLER BRGN	193	1	W051-D9	THRUST BEARING
187	1	RZ-0558	2500 SEAL RETAINER	193	1	W62-26-15	DOULBE LIP SEAL
187	1	S-0280	PLUG	193	1	Z-0216-182	SPRING
187	1	V-0961	2500 RETAINER RING	193	1	ZG-1909	SHAFT BUSHING
187	1	W015-7	BEARING				
187	1	W62-26-13	DOUBLE LIP SEAL	194	1	FZ-0961	BEARING SLEEVE
187	1	Z-0216-182	SPRING	194	1	K-2995-109	O'RING
187	1	ZG-1909	SHAFT BUSHING	194	2	R-0921	CROWNED ROLLER BRGN
				194	1	S-0280	PLUG
190	1	K-2995-26	2500 3000 5000 O'RING	194	1	W-0921	NEEDLE BEARING
190	2	R-0921	CROWNED ROLLER BRGN	194	1	W023-206	SPIROLOX SNAP RING
190	1	RZ-0558	2500 SEAL RETAINER	194	1	W051-D9	THRUST BEARING
190	1	S-0280	PLUG	194	1	W62-26-15	DOULBE LIP SEAL
190	1	V-0961	2500 RETAINER RING	194	1	Z-0216-182	SPRING
190	1	W015-7	BEARING	194	1	ZG-1909	SHAFT BUSHING
190	1	W62-26-13	DOUBLE LIP SEAL	194	1	W0-19	PIPE PLUG 1/8-27 NPT
190	1	Z-0216-182	SPRING				
190	1	ZG-1909	SHAFT BUSHING	195	1	K-2995-26	2500 3000 5000 O'RING
				195	2	R-0921	CROWNED ROLLER BRGN
191	1	K-2995-26	2500 3000 5000 O'RING	195	1	RZ-0558	2500 SEAL RETAINER
191	2	R-0921	CROWNED ROLLER BRGN	195	1	S-0280	PLUG
191	1	RZ-0558	2500 SEAL RETAINER	195	1	V-0961	2500 RETAINER RING
191	1	S-0280	PLUG	195	1	W015-7	BEARING
191	1	V-0961	2500 RETAINER RING	195	1	W62-26-13	DOUBLE LIP SEAL
191	1	W0-1	PIPE PLUG	195	1	Z-0216-182	SPRING
191	1	W015-7	BEARING	195	1	ZG-1909	SHAFT BUSHING
191	1	W62-26-13	DOUBLE LIP SEAL				
191	1	Z-0216-182	SPRING	196	1	FZ-0961	BEARING SLEEVE
191	1	ZG-1909	SHAFT BUSHING	196	1	K-2995-109	O'RING
				196	2	R-0921	CROWNED ROLLER BRGN
192	1	K-2995-26	2500 3000 5000 O'RING	196	1	S-0280	PLUG
192	2	R-0921	CROWNED ROLLER BRGN	196	1	W-0921	NEEDLE BEARING
192	1	RZ-0558	2500 SEAL RETAINER	196	1	W023-206	SPIROLOX SNAP RING
192	1	S-0280	PLUG	196	1	W051-D9	THRUST BEARING
192	1	V-0961	2500 RETAINER RING	196	1	W62-26-15	DOUBLE LIP SEAL
192	1	W015-7	BEARING	196	1	Z-0216-182	SPRING
192	1	W62-26-13	DOUBLE LIP SEAL	196	1	ZG-1909	SHAFT BUSHING
192	1	Z-0216-182	SPRING				
192	1	ZG-1909	SHAFT BUSHING				

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SHAFT END COVER SMALL PARTS

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
199	1	K-2995-26	2500 3000 5000 O'RING	267	1	Z-0216-182	SPRING
199	2	R-0921	CROWNED ROLLER BRGN	267	1	ZG-1909	SHAFT BUSHING
199	1	RZ-0558	2500 SEAL RETAINER				
199	1	S-0280	PLUG	286	1	K-2995-26	2500 3000 5000 O'RING
199	1	V-0961	2500 RETAINER RING	286	2	L-0280-K	CHECK VALVE ASSY
199	1	W015-7	BEARING	286	2	R-0921	CROWNED ROLLER BRGN
199	1	W62-26-13	DOUBLE LIP SEAL	286	1	RZ-0558	2500 SEAL RETAINER
199	1	Z-0216-182	SPRING	286	1	V-0961	2500 RETAINER RING
199	1	ZG-1909	SHAFT BUSHING	286	1	W015-7	BEARING
				286	1	W62-26-13	DOUBLE LIP SEAL
230	1	K-2995-26	2500 3000 5000 O'RING	286	1	Z-0216-182	SPRING
230	1	L-0280-K	CHECK VALVE ASSY	286	1	ZG-1909	SHAFT BUSHING
230	2	R-0921	CROWNED ROLLER BRGN				
230	1	RZ-0558	2500 SEAL RETAINER	287	1	K-2995-26	2500 3000 5000 O'RING
230	1	V-0961	2500 RETAINER RING	287	2	L-0280-K	CHECK VALVE ASSY
230	1	W015-7	BEARING	287	2	R-0921	CROWNED ROLLER BRGN
230	1	W62-26-13	DOUBLE LIP SEAL	287	1	RZ-0558	2500 SEAL RETAINER
230	1	Z-0216-182	SPRING	287	1	V-0961	2500 RETAINER RING
230	1	ZG-1909	SHAFT BUSHING	287	1	W015-7	BEARING
				287	1	W62-26-13	DOUBLE LIP SEAL
231	1	K-2995-26	2500 3000 5000 O'RING	287	1	Z-0216-182	SPRING
231	2	L-0280-K	CHECK VALVE ASSY	287	1	ZG-1909	SHAFT BUSHING
231	2	R-0921	CROWNED ROLLER BRGN				
231	1	RZ-0558	2500 SEAL RETAINER	290	1	K-2995-26	2500 3000 5000 O'RING
231	1	V-0961	2500 RETAINER RING	290	2	L-0280-K	CHECK VALVE ASSY
231	1	W015-7	BEARING	290	2	R-0921	CROWNED ROLLER BRGN
231	1	W62-26-13	DOUBLE LIP SEAL	290	1	RZ-0558	2500 SEAL RETAINER
231	1	Z-0216-182	SPRING	290	1	V-0961	2500 RETAINER RING
231	1	ZG-1909	SHAFT BUSHING	290	1	W015-7	BEARING
				290	1	W62-26-13	DOUBLE LIP SEAL
239	1	K-2995-26	2500 3000 5000 O'RING	290	1	Z-0216-182	SPRING
239	2	L-0280-K	CHECK VALVE ASSY	290	1	ZG-1909	SHAFT BUSHING
239	2	R-0921	CROWNED ROLLER BRGN				
239	1	RZ-0558	2500 SEAL RETAINER	291	1	K-2995-26	2500 3000 5000 O'RING
239	1	V-0961	2500 RETAINER RING	291	2	L-0280-K	CHECK VALVE ASSY
239	1	W015-7	BEARING	291	2	R-0921	CROWNED ROLLER BRGN
239	1	W62-26-13	DOUBLE LIP SEAL	291	1	RZ-0558	2500 SEAL RETAINER
239	1	Z-0216-182	SPRING	291	1	V-0961	2500 RETAINER RING
239	1	ZG-1909	SHAFT BUSHING	291	1	W0-1	PIPE PLUG
				291	1	W015-7	BEARING
267	1	K-2995-26	2500 3000 5000 O'RING	291	1	W62-26-13	DOUBLE LIP SEAL
267	2	L-0280-K	CHECK VALVE ASSY	291	1	Z-0216-182	SPRING
267	2	R-0921	CROWNED ROLLER BRGN	291	1	ZG-1909	SHAFT BUSHING
267	1	RZ-0558	2500 SEAL RETAINER				
267	1	V-0961	2500 RETAINER RING	292	1	K-2995-26	2500 3000 5000 O'RING
267	1	W015-7	BEARING	292	2	L-0280-K	CHECK VALVE ASSY
267	1	W62-26-13	DOUBLE LIP SEAL	292	2	R-0921	CROWNED ROLLER BRGN

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SHAFT END COVER SMALL PARTS

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>	<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
292	1	RZ-0558	2500 SEAL RETAINER	296	1	W62-26-15	DOUBLE LIP SEAL
292	1	V-0961	2500 RETAINER RING	296	1	Z-0216-182	SPRING
292	1	W015-7	BEARING	296	1	ZG-1909	SHAFT BUSHING
292	1	W62-26-13	DOUBLE LIP SEAL				
292	1	Z-0216-182	SPRING	299	1	K-2995-26	2500 3000 5000 O'RING
292	1	ZG-1909	SHAFT BUSHING	299	2	L-0280-K	CHECK VALVE ASSY
				299	2	R-0921	CROWNED ROLLER BRGN
293	1	FZ-0961	BEARING SLEEVE	299	1	RZ-0558	2500 SEAL RETAINER
293	1	K-2995-109	O'RING	299	1	V-0961	2500 RETAINER RING
293	2	L-0280-K	CHECK VALVE ASSY	299	1	W015-7	BEARING
293	2	R-0921	CROWNED ROLLER BRGN	299	1	W62-26-13	DOUBLE LIP SEAL
293	1	W-0921	NEEDLE BEARING	299	1	Z-0216-182	SPRING
293	1	W023-206	SPIROLOX SNAP RING	299	1	ZG-1909	SHAFT BUSHING
293	1	W051-D9	THRUST BEARING				
293	1	W62-26-15	DOULBE LIP SEAL	331	1	FA-0558	BEARING SPACER
293	1	Z-0216-182	SPRING	331	1	GZ-0961	RETAINER RING
293	1	ZG-1909	SHAFT BUSHING	331	1	K-2995-47	ORING
				331	2	R-0921	CROWNED ROLLER BRGN
294	1	FZ-0961	BEARING SLEEVE	331	1	S-0280	PLUG
294	1	K-2995-109	O'RING	331	1	W0-17	PIPE PLUG
294	2	L-0280-K	CHECK VALVE ASSY	331	1	W004-19	ROLL PIN
294	2	R-0921	CROWNED ROLLER BRGN	331	2	W015-7	BEARING
294	1	W-0921	NEEDLE BEARING	331	1	W62-26-10	DOUBLE LIP SEAL
294	1	W023-206	SPIROLOX SNAP RING	331	1	ZQ-1909	SHAFT BUSHING
294	1	W051-D9	THRUST BEARING				
294	1	W62-26-15	DOULBE LIP SEAL	367	1	FA-0558	BEARING SPACER
294	1	Z-0216-182	SPRING	367	1	GZ-0961	RETAINER RING
294	1	ZG-1909	SHAFT BUSHING	367	1	K-2995-47	ORING
294	1	W0-19	PIPE PLUG 1/8-27 NPT	367	2	R-0921	CROWNED ROLLER BRGN
				367	1	S-0280	PLUG
295	1	K-2995-26	2500 3000 5000 O'RING	367	1	W0-17	PIPE PLUG
295	2	L-0280-K	CHECK VALVE ASSY	367	1	W004-19	ROLL PIN
295	2	R-0921	CROWNED ROLLER BRGN	367	2	W015-7	BEARING
295	1	RZ-0558	2500 SEAL RETAINER	367	1	W62-26-10	DOUBLE LIP SEAL
295	1	V-0961	2500 RETAINER RING	367	1	ZQ-1909	SHAFT BUSHING
295	1	W015-7	BEARING				
295	1	W62-26-13	DOUBLE LIP SEAL	386	1	FA-0558	BEARING SPACER
295	1	Z-0216-182	SPRING	386	1	GZ-0961	RETAINER RING
295	1	ZG-1909	SHAFT BUSHING	386	1	K-2995-47	ORING
				386	2	R-0921	CROWNED ROLLER BRGN
296	1	FZ-0961	BEARING SLEEVE	386	1	S-0280	PLUG
296	1	K-2995-109	O'RING	386	1	W0-17	PIPE PLUG
296	2	L-0280-K	CHECK VALVE ASSY	386	1	W004-19	ROLL PIN
296	2	R-0921	CROWNED ROLLER BRGN	386	2	W015-7	BEARING
296	1	W-0921	NEEDLE BEARING	386	1	W62-26-10	DOUBLE LIP SEAL
296	1	W023-206	SPIROLOX SNAP RING	386	1	ZQ-1909	SHAFT BUSHING
296	1	W051-D9	THRUST BEARING				

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CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
387	1	FA-0558	BEARING SPACER	486	1	FA-0558	BEARING SPACER
387	1	GZ-0961	RETAINER RING	486	1	GZ-0961	RETAINER RING
387	1	K-2995-47	ORING	486	1	K-2995-47	ORING
387	2	R-0921	CROWNED ROLLER BRGN	486	2	R-0921	CROWNED ROLLER BRGN
387	1	S-0280	PLUG	486	1	S-0280	PLUG
387	1	W0-17	PIPE PLUG	486	1	W0-17	PIPE PLUG
387	1	W004-19	ROLL PIN	486	1	W004-19	ROLL PIN
387	2	W015-7	BEARING	486	2	W015-7	BEARING
387	1	W62-26-10	DOUBLE LIP SEAL	486	1	W62-26-10	DOUBLE LIP SEAL
387	1	ZQ-1909	SHAFT BUSHING	486	1	ZQ-1909	SHAFT BUSHING
399	1	FA-0558	BEARING SPACER	487	1	FA-0558	BEARING SPACER
399	1	GZ-0961	RETAINER RING	487	1	GZ-0961	RETAINER RING
399	1	K-2995-47	ORING	487	1	K-2995-47	ORING
399	2	R-0921	CROWNED ROLLER BRGN	487	2	R-0921	CROWNED ROLLER BRGN
399	1	S-0280	PLUG	487	1	S-0280	PLUG
399	1	W0-17	PIPE PLUG	487	1	W0-17	PIPE PLUG
399	1	W004-19	ROLL PIN	487	1	W004-19	ROLL PIN
399	2	W015-7	BEARING	487	2	W015-7	BEARING
399	1	W62-26-10	DOUBLE LIP SEAL	487	1	W62-26-10	DOUBLE LIP SEAL
399	1	ZQ-1909	SHAFT BUSHING	487	1	ZQ-1909	SHAFT BUSHING
431	1	FA-0558	BEARING SPACER	499	1	FA-0558	BEARING SPACER
431	1	GZ-0961	RETAINER RING	499	1	GZ-0961	RETAINER RING
431	1	K-2995-47	ORING	499	1	K-2995-47	ORING
431	2	R-0921	CROWNED ROLLER BRGN	499	2	R-0921	CROWNED ROLLER BRGN
431	1	S-0280	PLUG	499	1	S-0280	PLUG
431	1	W0-17	PIPE PLUG	499	1	W0-17	PIPE PLUG
431	1	W004-19	ROLL PIN	499	1	W004-19	ROLL PIN
431	2	W015-7	BEARING	499	2	W015-7	BEARING
431	1	W62-26-10	DOUBLE LIP SEAL	499	1	W62-26-10	DOUBLE LIP SEAL
431	1	ZQ-1909	SHAFT BUSHING	499	1	ZQ-1909	SHAFT BUSHING
467	1	FA-0558	BEARING SPACER	531	1	FA-0558	BEARING SPACER
467	1	GZ-0961	RETAINER RING	531	1	GZ-0961	RETAINER RING
467	1	K-2995-47	ORING	531	1	K-2995-47	O'RING
467	2	R-0921	CROWNED ROLLER BRGN	531	2	L-0280-K	CHECK VALVE ASSY
467	1	S-0280	PLUG	531	2	R-0921	CROWNED ROLLER BRGN
467	1	W0-17	PIPE PLUG	531	1	W0-17	PIPE PLUG
467	1	W004-19	ROLL PIN	531	1	W004-19	ROLL PIN
467	2	W015-7	BEARING	531	2	W015-7	BEARING
467	1	W62-26-10	DOUBLE LIP SEAL	531	1	W62-26-10	DOUBLE LIP SEAL
467	1	ZQ-1909	SHAFT BUSHING	531	1	ZQ-1909	SHAFT BUSHING

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SHAFT END COVER SMALL PARTS

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
567	1	FA-0558	BEARING SPACER	631	2	R-0921	CROWNED ROLLER BRGN
567	1	GZ-0961	RETAINER RING	631	1	W0-17	PIPE PLUG
567	1	K-2995-47	O'RING	631	1	W015-7	BEARING
567	2	L-0280-K	CHECK VALVE ASSY	631	1	W62-49-3	HP SEAL (MOTOR)
567	2	R-0921	CROWNED ROLLER BRGN	631	1	Z-0216-182	SPRING
567	1	W0-17	PIPE PLUG	631	1	ZG-1909	SHAFT BUSHING
567	1	W004-19	ROLL PIN				
567	2	W015-7	BEARING	667	1	K-2995-26	2500 3000 5000 O'RING
567	1	W62-26-10	DOUBLE LIP SEAL	667	1	KZ-0961	RETAINER RING (MOTOR)
567	1	ZQ-1909	SHAFT BUSHING	667	2	L-0280-K	CHECK VALVE ASSY
				667	2	R-0921	CROWNED ROLLER BRGN
586	1	FA-0558	BEARING SPACER	667	1	W0-17	PIPE PLUG
586	1	GZ-0961	RETAINER RING	667	1	W015-7	BEARING
586	1	K-2995-47	O'RING	667	1	W62-49-3	HP SEAL (MOTOR)
586	2	L-0280-K	CHECK VALVE ASSY	667	1	Z-0216-182	SPRING
586	2	R-0921	CROWNED ROLLER BRGN	667	1	ZG-1909	SHAFT BUSHING
586	1	W0-17	PIPE PLUG				
586	1	W004-19	ROLL PIN	686	1	K-2995-26	2500 3000 5000 O'RING
586	2	W015-7	BEARING	686	1	KZ-0961	RETAINER RING (MOTOR)
586	1	W62-26-10	DOUBLE LIP SEAL	686	2	L-0280-K	CHECK VALVE ASSY
586	1	ZQ-1909	SHAFT BUSHING	686	2	R-0921	CROWNED ROLLER BRGN
				686	1	W0-17	PIPE PLUG
587	1	FA-0558	BEARING SPACER	686	1	W015-7	BEARING
587	1	GZ-0961	RETAINER RING	686	1	W62-49-3	HP SEAL (MOTOR)
587	1	K-2995-47	O'RING	686	1	Z-0216-182	SPRING
587	2	L-0280-K	CHECK VALVE ASSY	686	1	ZG-1909	SHAFT BUSHING
587	2	R-0921	CROWNED ROLLER BRGN				
587	1	W0-17	PIPE PLUG	687	1	K-2995-26	2500 3000 5000 O'RING
587	1	W004-19	ROLL PIN	687	1	KZ-0961	RETAINER RING MOTOR
587	2	W015-7	BEARING	687	2	L-0280-K	CHECK VALVE ASSY
587	1	W62-26-10	DOUBLE LIP SEAL	687	2	R-0921	CROWNED ROLLER BEARING
587	1	ZQ-1909	SHAFT BUSHING	687	1	W0-17	PIPE PLUG
				687	1	W015-7	BEARING
599	1	FA-0558	BEARING SPACER	687	1	W62-49-3	HP SEAL MOTOR
599	1	GZ-0961	RETAINER RING	687	1	Z-0216-182	SPRING
599	1	K-2995-47	O'RING	687	1	ZG-1909	SHAFT BUSHING
599	2	L-0280-K	CHECK VALVE ASSY				
599	2	R-0921	CROWNED ROLLER BRGN	690	1	K-2995-26	2500 3000 5000 O'RING
599	1	W0-17	PIPE PLUG	690	1	KZ-0961	RETAINER RING (MOTOR)
599	1	W004-19	ROLL PIN	690	2	L-0280-K	CHECK VALVE ASSY
599	2	W015-7	BEARING	690	2	R-0921	CROWNED ROLLER BRGN
599	1	W62-26-10	DOUBLE LIP SEAL	690	1	W0-17	PIPE PLUG
599	1	ZQ-1909	SHAFT BUSHING	690	1	W015-7	BEARING
				690	1	W62-49-3	HP SEAL (MOTOR)
631	1	K-2995-26	2500 3000 5000 O'RING	690	1	Z-0216-182	SPRING
631	1	KZ-0961	RETAINER RING (MOTOR)	690	1	ZG-1909	SHAFT BUSHING
631	2	L-0280-K	CHECK VALVE ASSY				

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CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
692	1	K-2995-26	2500 3000 5000 O'RING	731	1	GZ-0961	RETAINER RING
692	1	KZ-0961	RETAINER RING (MOTOR)	731	1	K-2995-47	O'RING
692	2	L-0280-K	CHECK VALVE ASSY	731	2	L-0280-K	CHECK VALVE ASSY
692	1	W0-17	PIPE PLUG	731	2	R-0921	CROWNED ROLLER BRGN
692	2	R-0921	CROWNED ROLLER BRGN	731	1	W0-17	PIPE PLUG
692	1	W015-7	BEARING	731	1	W004-19	ROLL PIN
692	1	W62-49-3	HP SEAL (MOTOR)	731	2	W015-7	BEARING
692	1	Z-0216-182	SPRING	731	1	W62-49-1	HP SEAL
692	1	ZG-1909	SHAFT BUSHING	731	1	ZQ-1909	SHAFT BUSHING
693	1	J-2909-19	BACK UP RING	732	1	FA-0558	BEARING SPACER
693	1	K-2995-109	O'RING	732	1	GZ-0961	RETAINER RING
693	2	L-0280-K	CHECK VALVE ASSY	732	1	K-2995-47	O'RING
693	1	Q-2995-8	O'RING	732	2	L-0280-K	CHECK VALVE ASSY
693	2	R-0921	CROWNED ROLLER BRGN	732	2	R-0921	CROWNED ROLLER BRGN
693	1	W-0921	NEEDLE BEARING	732	1	W004-19	ROLL PIN
693	1	W0-19	PIPE PLUG	732	2	W015-7	BEARING
693	1	W023-206	SPIROLOX SNAP RING	732	1	W62-49-1	HP SEAL
693	1	W051-D9	THRUST BEARING	732	1	ZQ-1909	SHAFT BUSHING
693	1	Z-0216-182	SPRING	732	2	W0-17	PIPE PLUG
693	1	ZG-1909	SHAFT BUSHING				
693	1	ZU-1909	BEARING SLEEVE	767	1	FA-0558	BEARING SPACER
				767	1	GZ-0961	RETAINER RING
694	1	J-2909-19	BACK UP RING	767	1	K-2995-47	O'RING
694	1	K-2995-109	O'RING	767	2	L-0280-K	CHECK VALVE ASSY
694	2	L-0280-K	CHECK VALVE ASSY	767	2	R-0921	CROWNED ROLLER BRGN
694	1	Q-2995-8	O'RING	767	1	W0-17	PIPE PLUG
694	2	R-0921	CROWNED ROLLER BRGN	767	1	W004-19	ROLL PIN
694	1	W-0921	NEEDLE BEARING	767	2	W015-7	BEARING
694	1	W0-19	PIPE PLUG	767	1	W62-49-1	HP SEAL
694	1	W023-206	SPIROLOX SNAP RING	767	1	ZQ-1909	SHAFT BUSHING
694	1	W051-D9	THRUST BEARING				
694	1	Z-0216-182	SPRING	786	1	FA-0558	BEARING SPACER
694	1	ZG-1909	SHAFT BUSHING	786	1	GZ-0961	RETAINER RING
694	1	ZU-1909	BEARING SLEEVE	786	1	K-2995-47	O'RING
				786	2	L-0280-K	CHECK VALVE ASSY
699	1	K-2995-26	2500 3000 5000 O'RING	786	2	R-0921	CROWNED ROLLER BRGN
699	1	KZ-0961	RETAINER RING (MOTOR)	786	1	W0-17	PIPE PLUG
699	2	L-0280-K	CHECK VALVE ASSY	786	1	W004-19	ROLL PIN
699	2	R-0921	CROWNED ROLLER BRGN	786	2	W015-7	BEARING
699	1	W0-17	PIPE PLUG	786	1	W62-49-1	HP SEAL
699	1	W015-7	BEARING	786	1	ZQ-1909	SHAFT BUSHING
699	1	W62-49-3	HP SEAL (MOTOR)				
699	1	Z-0216-182	SPRING	787	1	FA-0558	BEARING SPACER
699	1	ZG-1909	SHAFT BUSHING	787	1	GZ-0961	RETAINER RING
				787	1	K-2995-47	O'RING
731	1	FA-0558	BEARING SPACER	787	2	L-0280-K	CHECK VALVE ASSY

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SHAFT END COVER SMALL PARTS

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
787	2	R-0921	CROWNED ROLLER BRGN	867	1	K-2995-26	2500 3000 5000 O'RING
787	1	W0-17	PIPE PLUG	867	1	KZ-0961	RETAINER RING (MOTOR)
787	1	W004-19	ROLL PIN	867	2	L-0280-K	CHECK VALVE ASSY
787	2	W015-7	BEARING	867	2	R-0921	CROWNED ROLLER BRGN
787	1	W62-49-1	HP SEAL	867	1	W015-7	BEARING
787	1	ZQ-1909	SHAFT BUSHING	867	1	W62-49-3	HP SEAL (MOTOR)
				867	1	Z-0216-182	SPRING
				867	1	ZG-1909	SHAFT BUSHING
799	1	FA-0558	BEARING SPACER	867	1	ZG-1909	SHAFT BUSHING
799	1	GZ-0961	RETAINER RING				
799	1	K-2995-47	O'RING	882	1	K-2995-26	2500 3000 5000 O'RING
799	2	L-0280-K	CHECK VALVE ASSY	882	1	KZ-0961	RETAINER RING (MOTOR)
799	2	R-0921	CROWNED ROLLER BRGN	882	2	L-0280-K	CHECK VALVE ASSY
799	1	W0-17	PIPE PLUG	882	2	R-0921	CROWNED ROLLER BRGN
799	1	W004-19	ROLL PIN	882	1	W0-17	PIPE PLUG
799	2	W015-7	BEARING	882	1	W015-7	BEARING
799	1	W62-49-1	HP SEAL	882	1	W62-49-3	HP SEAL (MOTOR)
799	1	ZQ-1909	SHAFT BUSHING	882	1	Z-0216-182	SPRING
				882	1	ZG-1909	SHAFT BUSHING
830	1	K-2995-26	2500 3000 5000 O'RING				
830	1	KZ-0961	RETAINER RING (MOTOR)	884	1	K-2995-26	2500 3000 5000 O'RING
830	2	L-0280-K	CHECK VALVE ASSY	884	1	KZ-0961	RETAINER RING (MOTOR)
830	2	R-0921	CROWNED ROLLER BRGN	884	2	L-0280-K	CHECK VALVE ASSY
830	1	W015-7	BEARING	884	2	R-0921	CROWNED ROLLER BRGN
830	1	W62-49-3	HP SEAL (MOTOR)	884	2	W0-17	PIPE PLUG
830	1	Z-0216-182	SPRING	884	1	W015-7	BEARING
830	1	ZG-1909	SHAFT BUSHING	884	1	W62-49-3	HP SEAL (MOTOR)
				884	1	Z-0216-182	SPRING
				884	1	ZG-1909	SHAFT BUSHING
831	1	K-2995-26	2500 3000 5000 O'RING	884	1	ZG-1909	SHAFT BUSHING
831	1	KZ-0961	RETAINER RING (MOTOR)				
831	2	L-0280-K	CHECK VALVE ASSY	886	1	K-2995-26	2500 3000 5000 O'RING
831	2	R-0921	CROWNED ROLLER BRGN	886	1	KZ-0961	RETAINER RING (MOTOR)
831	1	W015-7	BEARING	886	2	L-0280-K	CHECK VALVE ASSY
831	1	W62-49-3	HP SEAL (MOTOR)	886	2	R-0921	CROWNED ROLLER BRGN
831	1	Z-0216-182	SPRING	886	1	W015-7	BEARING
831	1	ZG-1909	SHAFT BUSHING	886	1	W62-49-3	HP SEAL (MOTOR)
				886	1	Z-0216-182	SPRING
				886	1	ZG-1909	SHAFT BUSHING
839	1	K-2995-26	2500 3000 5000 O'RING	886	1	ZG-1909	SHAFT BUSHING
839	1	KZ-0961	RETAINER RING (MOTOR)				
839	2	L-0280-K	CHECK VALVE ASSY	887	1	K-2995-26	2500 3000 5000 O'RING
839	2	R-0921	CROWNED ROLLER BRGN	887	1	KZ-0961	RETAINER RING (MOTOR)
839	1	W0-17	PIPE PLUG	887	2	L-0280-K	CHECK VALVE ASSY
839	1	W015-7	BEARING	887	2	R-0921	CROWNED ROLLER BRGN
839	1	W62-49-3	HP SEAL (MOTOR)	887	1	W015-7	BEARING
839	1	Z-0216-182	SPRING	887	1	W62-49-3	HP SEAL (MOTOR)
839	1	ZG-1909	SHAFT BUSHING	887	1	Z-0216-182	SPRING
				887	1	ZG-1909	SHAFT BUSHING

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SHAFT END COVER SMALL PARTS

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
890	1	K-2995-26	2500 3000 5000 O'RING	894	1	W051-D9	THRUST BEARING
890	1	KZ-0961	RETAINER RING (MOTOR)	894	1	Z-0216-182	SPRING
890	2	L-0280-K	CHECK VALVE ASSY	894	1	ZG-1909	SHAFT BUSHING
890	2	R-0921	CROWNED ROLLER BRGN	894	1	ZU-1909	BEARING SLEEVE
890	1	W015-7	BEARING				
890	1	W62-49-3	HP SEAL (MOTOR)	895	1	K-2995-26	2500 3000 5000 O'RING
890	1	Z-0216-182	SPRING	895	1	KZ-0961	RETAINER RING (MOTOR)
890	1	ZG-1909	SHAFT BUSHING	895	2	L-0280-K	CHECK VALVE ASSY
				895	2	R-0921	CROWNED ROLLER BRGN
891	1	K-2995-26	2500 3000 5000 O'RING	895	1	W0-17	PIPE PLUG
891	1	KZ-0961	RETAINER RING (MOTOR)	895	1	W015-7	BEARING
891	2	L-0280-K	CHECK VALVE ASSY	895	1	W62-49-3	HP SEAL (MOTOR)
891	2	R-0921	CROWNED ROLLER BRGN	895	1	Z-0216-182	SPRING
891	1	W0-1	PIPE PLUG	895	1	ZG-1909	SHAFT BUSHING
891	1	W015-7	BEARING				
891	1	W62-49-3	HP SEAL (MOTOR)	896	1	J-2909-19	BACK UP RING
891	1	Z-0216-182	SPRING	896	1	K-2995-109	O'RING
891	1	ZG-1909	SHAFT BUSHING	896	2	L-0280-K	CHECK VALVE ASSY
				896	1	Q-2995-8	O'RING
892	1	K-2995-26	2500 3000 5000 O'RING	896	2	R-0921	CROWNED ROLLER BRGN
892	1	KZ-0961	RETAINER RING (MOTOR)	896	1	W-0921	NEEDLE BEARING
892	2	L-0280-K	CHECK VALVE ASSY	896	1	W023-206	SPIROLOX SNAP RING
892	2	R-0921	CROWNED ROLLER BRGN	896	1	W051-D9	THRUST BEARING
892	1	W015-7	BEARING	896	1	Z-0216-182	SPRING
892	1	W62-49-3	HP SEAL (MOTOR)	896	1	ZG-1909	SHAFT BUSHING
892	1	Z-0216-182	SPRING	896	1	ZU-1909	BEARING SLEEVE
892	1	ZG-1909	SHAFT BUSHING				
				899	1	K-2995-26	2500 3000 5000 O'RING
893	1	J-2909-19	BACK UP RING	899	1	KZ-0961	RETAINER RING (MOTOR)
893	1	K-2995-109	O'RING	899	2	L-0280-K	CHECK VALVE ASSY
893	2	L-0280-K	CHECK VALVE ASSY	899	2	R-0921	CROWNED ROLLER BRGN
893	1	Q-2995-8	O'RING	899	1	W015-7	BEARING
893	2	R-0921	CROWNED ROLLER BRGN	899	1	W62-49-3	HP SEAL (MOTOR)
893	1	W-0921	NEEDLE BEARING	899	1	Z-0216-182	SPRING
893	1	W023-206	SPIROLOX SNAP RING	899	1	ZG-1909	SHAFT BUSHING
893	1	W051-D9	THRUST BEARING				
893	1	Z-0216-182	SPRING				
893	1	ZG-1909	SHAFT BUSHING				
893	1	ZU-1909	BEARING SLEEVE				
894	1	J-2909-19	BACK UP RING				
894	1	K-2995-109	O'RING				
894	2	L-0280-K	CHECK VALVE ASSY				
894	1	Q-2995-8	O'RING				
894	2	R-0921	CROWNED ROLLER BRGN				
894	1	W-0921	NEEDLE BEARING				
894	1	W023-206	SPIROLOX SNAP RING				

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Port End Covers

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>	<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
AD	1	QZ-0592	BLANK & BLANK SINGLE	TX	1	QZ-0592-54	5/8ORB & BLANK MULT XSD
AH	1	QZ-0592	BLANK & BLANK MULT				
AX	1	QZ-0592	BLANK & BLANK MULT XSD				
BD	1	QZ-0592-1	BLANK & 3/4 NPT SINGLE				
BH	1	QZ-0592-1	BLANK & 3/4 NPT MULT				
BX	1	QZ-0592-1	BLANK & 3/4 NPT MULT XSD				
CD	1	QZ-0592-51	BLANK & 1/2 ORB SINGLE				
CH	1	QZ-0592-51	BLANK & 1/2 ORB MULT				
CX	1	QZ-0592-51	BLANK & 1/2 ORB MULT XSD				
ED	1	QZ-0592-1	3/4 NPT & BLANK SINGLE				
EH	1	QZ-0592-1	3/4 NPT & BLANK MULT				
EX	1	QZ-0592-1	3/4 NPT & BLANK MULT XSD				
FD	1	QZ-0592-2	3/4 NPT & 3/4 NPT SINGLE				
FF	1	QZ-0592-4	3/4 NPT & 3/4 NPT O.S.				
FH	1	QZ-0592-2	3/4 NPT & 3/4 NPT MULT				
FX	1	QZ-0592-2	3/4 NPT & 3/4 NPT MULT XSD				
GD	1	QZ-0592-51	1/2 ORB & BLANK SINGLE				
GH	1	QZ-0592-51	1/2 ORB & BLANK MULT				
GX	1	QZ-0592-51	1/2 ORB & BLANK MULT XSD				
ID	1	QZ-0592-52	1/2 ORB & 1/2 ORB SINGLE				
IH	1	QZ-0592-52	1/2 ORB & 1/2 ORB MULT				
IX	1	QZ-0592-52	1/2 ORB & 1/2 ORB MULT XSD				
JD	1	QZ-0592-57	3/4 ORB & BLANK SINGLE				
JH	1	QZ-0592-57	3/4 ORB & BLANK MULT				
JX	1	QZ-0592-57	3/4 ORB & BLANK MULT XSD				
KD	1	QZ-0592-57	BLANK & 3/4 ORB SINGLE				
KH	1	QZ-0592-57	BLANK & 3/4 ORB MULT				
KX	1	QZ-0592-57	BLANK & 3/4 ORB MULT XSD				
LD	1	QZ-0592-58	3/4 ORB & 3/4 ORB OB SINGLE				
LF	1	QZ-0592-53	3/4 ORB & 3/4 ORB OS SINGLE				
LH	1	QZ-0592-58	3/4 ORB & 3/4 ORB OB MULT				
LX	1	QZ-0592-58	3/4 ORB & 3/4 ORB OB MULT XSD				
LY	1	QZ-0592-53	3/4 ORB & 3/4 ORB O.S. MULT				
MH	1	QZ-0592-54	BLANK & 5/8 ORB MULT				
MX	1	QZ-0592-54	BLANK & 5/8 ORB MULT XSD				
ND	1	QZ-0592-3	1 NPT & 1 NPT SINGLE				
NH	1	QZ-0592-3	1 NPT & 1 NPT MULT				
NX	1	QZ-0592-3	1 NPT & 1 NPT XSD				
TD	1	QZ-0592-54	5/8 ORB & BLANK SINGLE				
TH	1	QZ-0592-54	5/8 ORB & BLANK MULT				

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PORT END COVER SMALL PARTS

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
	2	R-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG

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Housings

CODE	QTY	PART NUMBER	D E S C R I P T I O N		CODE	QTY	PART NUMBER	D E S C R I P T I O N	
DB07	1	LZ-0577-07-9	1/2 NPT	& 1/2 NPT	HL25	1	LZ-0577-25-6	1 NPT	& 1 1/4 NPT
DB10	1	LZ-0577-10-9	1/2 NPT	& 1/2 NPT	HM20	1	LZ-0577-20-11	1 NPT	& 1 1/2 NPT
DB12	1	LZ-0577-12-9	1/2 NPT	& 1/2 NPT	HM22	1	LZ-0577-22-11	1 NPT	& 1 1/2 NPT
DC07	1	LZ-0577-07-15	1/2 NPT	& 3/4 NPT	HM25	1	LZ-0577-25-11	1 NPT	& 1 1/2 NPT
DG07	1	LZ-0577-07-15	3/4 NPT	& 1/2 NPT	HP15	1	LZ-0577-15-10	1 1/4 NPT	& 3/4 NPT
DQ10	1	LZ-0577-10-2	3/4 NPT	& 3/4 NPT	HP17	1	LZ-0577-17-10	1 1/4 NPT	& 3/4 NPT
DQ12	1	LZ-0577-12-2	3/4 NPT	& 3/4 NPT	HP20	1	LZ-0577-20-10	1 1/4 NPT	& 3/4 NPT
DQ15	1	LZ-0577-15-2	3/4 NPT	& 3/4 NPT	HP22	1	LZ-0577-22-10	1 1/4 NPT	& 3/4 NPT
DQ17	1	LZ-0577-17-2	3/4 NPT	& 3/4 NPT	HP25	1	LZ-0577-25-10	1 1/4 NPT	& 3/4 NPT
DQ20	1	LZ-0577-20-2	3/4 NPT	& 3/4 NPT	HR15	1	LZ-0577-15-6	1 1/4 NPT	& 1 NPT
DS10	1	LZ-0577-10-3	3/4 NPT	& 1 NPT	HR17	1	LZ-0577-17-6	1 1/4 NPT	& 1 NPT
DS12	1	LZ-0577-12-3	3/4 NPT	& 1 NPT	HR20	1	LZ-0577-20-6	1 1/4 NPT	& 1 NPT
DS15	1	LZ-0577-15-3	3/4 NPT	& 1 NPT	HR22	1	LZ-0577-22-6	1 1/4 NPT	& 1 NPT
DS17	1	LZ-0577-17-3	3/4 NPT	& 1 NPT	HR25	1	LZ-0577-25-6	1 1/4 NPT	& 1 NPT
DS20	1	LZ-0577-20-3	3/4 NPT	& 1 NPT	HS17	1	LZ-0577-17-8	1 1/4 NPT	& 1 1/4 NPT
DS22	1	LZ-0577-22-3	3/4 NPT	& 1 NPT	HS20	1	LZ-0577-20-8	1 1/4 NPT	& 1 1/4 NPT
DS25	1	LZ-0577-25-3	3/4 NPT	& 1 NPT	HS22	1	LZ-0577-22-8	1 1/4 NPT	& 1 1/4 NPT
DT15	1	LZ-0577-15-10	3/4 NPT	& 1 1/4 NPT	HS25	1	LZ-0577-25-8	1 1/4 NPT	& 1 1/4 NPT
DT17	1	LZ-0577-17-10	3/4 NPT	& 1 1/4 NPT	HT20	1	LZ-0577-20-12	1 1/4 NPT	& 1 1/2 NPT
DT20	1	LZ-0577-20-10	3/4 NPT	& 1 1/4 NPT	HT22	1	LZ-0577-22-12	1 1/4 NPT	& 1 1/2 NPT
DT22	1	LZ-0577-22-10	3/4 NPT	& 1 1/4 NPT	HT25	1	LZ-0577-25-12	1 1/4 NPT	& 1 1/2 NPT
DT25	1	LZ-0577-25-10	3/4 NPT	& 1 1/4 NPT	HX20	1	LZ-0577-20-11	1 1/2 NPT	& 1 NPT
HI10	1	LZ-0577-10-3	1 NPT	& 3/4 NPT	HX22	1	LZ-0577-22-11	1 1/2 NPT	& 1 NPT
HI12	1	LZ-0577-12-3	1 NPT	& 3/4 NPT	HX25	1	LZ-0577-25-11	1 1/2 NPT	& 1 NPT
HI15	1	LZ-0577-15-3	1 NPT	& 3/4 NPT	HY20	1	LZ-0577-20-12	1 1/2 NPT	& 1 1/4 NPT
HI17	1	LZ-0577-17-3	1 NPT	& 3/4 NPT	HY22	1	LZ-0577-22-12	1 1/2 NPT	& 1 1/4 NPT
HI20	1	LZ-0577-20-3	1 NPT	& 3/4 NPT	HY25	1	LZ-0577-25-12	1 1/2 NPT	& 1 1/4 NPT
HI22	1	LZ-0577-22-3	1 NPT	& 3/4 NPT	IB22	1	LZ-0577-22-13	1 1/2 NPT	& 1 1/2 NPT
HI25	1	LZ-0577-25-3	1 NPT	& 3/4 NPT	IB25	1	LZ-0577-25-13	1 1/2 NPT	& 1 1/2 NPT
HK10	1	LZ-0577-10-5	1 NPT	& 1 NPT	NB07	1	LZ-0577-07-26	BLANK	& 1/2 SF
HK12	1	LZ-0577-12-5	1 NPT	& 1 NPT	NB10	1	LZ-0577-10-26	BLANK	& 1/2 SF
HK15	1	LZ-0577-15-5	1 NPT	& 1 NPT	NB12	1	LZ-0577-12-26	BLANK	& 1/2 SF
HK17	1	LZ-0577-17-5	1 NPT	& 1 NPT	NB15	1	LZ-0577-15-26	BLANK	& 1/2 SF
HK20	1	LZ-0577-20-5	1 NPT	& 1 NPT	NB17	1	LZ-0577-17-26	BLANK	& 1/2 SF
HK22	1	LZ-0577-22-5	1 NPT	& 1 NPT	NB20	1	LZ-0577-20-26	BLANK	& 1/2 SF
HK25	1	LZ-0577-25-5	1 NPT	& 1 NPT	NB22	1	LZ-0577-22-26	BLANK	& 1/2 SF
HL15	1	LZ-0577-15-6	1 NPT	& 1 1/4 NPT	NB25	1	LZ-0577-25-26	BLANK	& 1/2 SF
HL17	1	LZ-0577-17-6	1 NPT	& 1 1/4 NPT	NE10	1	LZ-0577-10-29	BLANK	& 3/4 SF
HL20	1	LZ-0577-20-6	1 NPT	& 1 1/4 NPT	NE12	1	LZ-0577-12-29	BLANK	& 3/4 SF
HL22	1	LZ-0577-22-6	1 NPT	& 1 1/4 NPT	NE15	1	LZ-0577-15-29	BLANK	& 3/4 SF

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Housings

CODE	QTY	PART NUMBER	D E S C R I P T I O N		CODE	QTY	PART NUMBER	D E S C R I P T I O N	
NE17	1	LZ-0577-17-29	BLANK	& 3/4 SF	NS15	1	LZ-0577-15-32	1 SF	& BLANK
NE20	1	LZ-0577-20-29	BLANK	& 3/4 SF	NS17	1	LZ-0577-17-32	1 SF	& BLANK
NE22	1	LZ-0577-22-29	BLANK	& 3/4 SF	NS20	1	LZ-0577-20-32	1 SF	& BLANK
NE25	1	LZ-0577-25-29	BLANK	& 3/4 SF	NS22	1	LZ-0577-22-32	1 SF	& BLANK
NG12	1	LZ-0577-12-32	BLANK	& 1 SF	NS25	1	LZ-0577-25-32	1 SF	& BLANK
NG15	1	LZ-0577-15-32	BLANK	& 1 SF	NU12	'	1 LZ-0577-12-35	1 1/4 SF	& BLANK
NG17	1	LZ-0577-17-32	BLANK	& 1 SF	NU15	+	1 LZ-0577-15-35	1 1/4 SF	& BLANK
NG20	1	LZ-0577-20-32	BLANK	& 1 SF	NU17	+	1 LZ-0577-17-35	1 1/4 SF	& BLANK
NG22	1	LZ-0577-22-32	BLANK	& 1 SF	NU20	1	LZ-0577-20-35	1 1/4 SF	& BLANK
NG25	1	LZ-0577-25-32	BLANK	& 1 SF	NU22	1	LZ-0577-22-35	1 1/4 SF	& BLANK
NI12	'	1 LZ-0577-12-35	BLANK	& 1 1/4 SF	NU25	1	LZ-0577-25-35	1 1/4 SF	& BLANK
NI15	+	1 LZ-0577-15-35	BLANK	& 1 1/4 SF	NV15	'	1 LZ-0577-15-39	1 1/2 SF	& BLANK
NI17	+	1 LZ-0577-17-35	BLANK	& 1 1/4 SF	NV17	'	1 LZ-0577-17-39	1 1/2 SF	& BLANK
NI20	1	LZ-0577-20-35	BLANK	& 1 1/4 SF	NV20	+	1 LZ-0577-20-39	1 1/2 SF	& BLANK
NI22	1	LZ-0577-22-35	BLANK	& 1 1/4 SF	NV22	1	LZ-0577-22-39	1 1/2 SF	& BLANK
NI25	1	LZ-0577-25-35	BLANK	& 1 1/4 SF	NV25	1	LZ-0577-25-39	1 1/2 SF	& BLANK
NJ15	'	1 LZ-0577-15-39	BLANK	& 1 1/2 SF	NW20	'	1 LZ-0577-20-42	2 SF	& BLANK
NJ17	'	1 LZ-0577-17-39	BLANK	& 1 1/2 SF	NY22	'	1 LZ-0577-22-95	2 SF	& 1 SF
NJ20	+	1 LZ-0577-20-39	BLANK	& 1 1/2 SF	NY25	'	1 LZ-0577-25-95	2 SF	& 1 SF
NJ22	1	LZ-0577-22-39	BLANK	& 1 1/2 SF	QI15	1	LZ-0577-15-31	1 SF	& 3/4 SF
NJ25	1	LZ-0577-25-39	BLANK	& 1 1/2 SF	QI17	1	LZ-0577-17-31	1 SF	& 3/4 SF
NK20	'	1 LZ-0577-20-42	BLANK	& 2 SF	QI20	1	LZ-0577-20-31	1 SF	& 3/4 SF
NO07	1	LZ-0577-07-26	1/2 SF	& BLANK	QI22	1	LZ-0577-22-31	1 SF	& 3/4 SF
NO10	1	LZ-0577-10-26	1/2 SF	& BLANK	QI25	1	LZ-0577-25-31	1 SF	& 3/4 SF
NO12	1	LZ-0577-12-26	1/2 SF	& BLANK	QR12	1	LZ-0577-12-33	1 SF	& 1 SF
NO15	1	LZ-0577-15-26	1/2 SF	& BLANK	QR15	1	LZ-0577-15-33	1 SF	& 1 SF
NO17	1	LZ-0577-17-26	1/2 SF	& BLANK	QR17	1	LZ-0577-17-33	1 SF	& 1 SF
NO20	1	LZ-0577-20-26	1/2 SF	& BLANK	QR20	1	LZ-0577-20-33	1 SF	& 1 SF
NO22	1	LZ-0577-22-26	1/2 SF	& BLANK	QR22	1	LZ-0577-22-33	1 SF	& 1 SF
NO25	1	LZ-0577-25-26	1/2 SF	& BLANK	QR25	1	LZ-0577-25-33	1 SF	& 1 SF
NQ10	1	LZ-0577-10-29	3/4 SF	& BLANK	QL12	'	1 LZ-0577-12-34	1 SF	& 1 1/4 SF
NQ12	1	LZ-0577-12-29	3/4 SF	& BLANK	QL15	'	1 LZ-0577-15-34	1 SF	& 1 1/4 SF
NQ15	1	LZ-0577-15-29	3/4 SF	& BLANK	QL17	'	1 LZ-0577-17-34	1 SF	& 1 1/4 SF
NQ17	1	LZ-0577-17-29	3/4 SF	& BLANK	QL20	1	LZ-0577-20-34	1 SF	& 1 1/4 SF
NQ20	1	LZ-0577-20-29	3/4 SF	& BLANK	QL22	1	LZ-0577-22-34	1 SF	& 1 1/4 SF
NQ22	1	LZ-0577-22-29	3/4 SF	& BLANK	QL25	1	LZ-0577-25-34	1 SF	& 1 1/4 SF
NQ25	1	LZ-0577-25-29	3/4 SF	& BLANK	QM15	'	1 LZ-0577-15-44	1 SF	& 1 1/2 SF
NR22	'	1 LZ-0577-22-95	1 SF	& 2 SF	QM17	'	1 LZ-0577-17-44	1 SF	& 1 1/2 SF
NR25	'	1 LZ-0577-25-95	1 SF	& 2 SF	QM20	'	1 LZ-0577-20-44	1 SF	& 1 1/2 SF
NS12	1	LZ-0577-12-32	1 SF	& BLANK	QM22	1	LZ-0577-22-44	1 SF	& 1 1/2 SF

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Housings

CODE	QTY	PART NUMBER	D E S C R I P T I O N		CODE	QTY	PART NUMBER	D E S C R I P T I O N	
QM25	1	LZ-0577-25-44	1 SF	& 1 1/2 SF	RC22	' 1	LZ-0577-22-41	1 1/2 SF	& 2 SF
QP15	' 1	LZ-0577-15-37	1 1/4 SF	& 3/4 SF	RC25	' 1	LZ-0577-25-41	1 1/2 SF	& 2 SF
QP17	' 1	LZ-0577-17-37	1 1/4 SF	& 3/4 SF	RF20	' 1	LZ-0577-20-45	2 SF	& 1 1/4 SF
QP20	1	LZ-0577-20-37	1 1/4 SF	& 3/4 SF	RF22	' 1	LZ-0577-22-45	2 SF	& 1 1/4 SF
QP22	1	LZ-0577-22-37	1 1/4 SF	& 3/4 SF	RF25	' 1	LZ-0577-25-45	2 SF	& 1 1/4 SF
QP25	1	LZ-0577-25-37	1 1/4 SF	& 3/4 SF	RG20	' + 1	LZ-0577-20-41	2 SF	& 1 1/2 SF
QR12	' + 1	LZ-0577-12-34	1 1/4 SF	& 1 SF	RG22	' 1	LZ-0577-22-41	2 SF	& 1 1/2 SF
QR15	' 1	LZ-0577-15-34	1 1/4 SF	& 1 SF	RG25	' 1	LZ-0577-25-41	2 SF	& 1 1/2 SF
QR17	' 1	LZ-0577-17-34	1 1/4 SF	& 1 SF	TB07	1	LZ-0577-07-51	BLANK	& 1/2 ORB
QR20	1	LZ-0577-20-34	1 1/4 SF	& 1 SF	TB10	1	LZ-0577-10-51	BLANK	& 1/2 ORB
QR22	1	LZ-0577-22-34	1 1/4 SF	& 1 SF	TB12	1	LZ-0577-12-51	BLANK	& 1/2 ORB
QR25	1	LZ-0577-25-34	1 1/4 SF	& 1 SF	TB15	1	LZ-0577-15-51	BLANK	& 1/2 ORB
QS15	+ + 1	LZ-0577-15-36	1 1/4 SF	& 1 1/4 SF	TC10	1	LZ-0577-10-54	BLANK	& 5/8 ORB
QS17	+ + 1	LZ-0577-17-36	1 1/4 SF	& 1 1/4 SF	TC12	1	LZ-0577-12-54	BLANK	& 5/8 ORB
QS20	1	LZ-0577-20-36	1 1/4 SF	& 1 1/4 SF	TC15	1	LZ-0577-15-54	BLANK	& 5/8 ORB
QS22	1	LZ-0577-22-36	1 1/4 SF	& 1 1/4 SF	TE10	+ 1	LZ-0577-10-57	BLANK	& 3/4 ORB
QS25	1	LZ-0577-25-36	1 1/4 SF	& 1 1/4 SF	TE12	+ 1	LZ-0577-12-57	BLANK	& 3/4 ORB
QT15	+ ' 1	LZ-0577-15-38	1 1/4 SF	& 1 1/2 SF	TE15	1	LZ-0577-15-57	BLANK	& 3/4 ORB
QT17	+ ' 1	LZ-0577-17-38	1 1/4 SF	& 1 1/2 SF	TE17	1	LZ-0577-17-57	BLANK	& 3/4 ORB
QT20	' 1	LZ-0577-20-38	1 1/4 SF	& 1 1/2 SF	TF12	+ 1	LZ-0577-12-60	BLANK	& 7/8 ORB
QT22	1	LZ-0577-22-38	1 1/4 SF	& 1 1/2 SF	TF15	+ 1	LZ-0577-15-60	BLANK	& 7/8 ORB
QT25	1	LZ-0577-25-38	1 1/4 SF	& 1 1/2 SF	TF17	1	LZ-0577-17-60	BLANK	& 7/8 ORB
QW20	' 1	LZ-0577-20-45	1 1/4 SF	& 2 SF	TF20	1	LZ-0577-20-60	BLANK	& 7/8 ORB
QW22	' 1	LZ-0577-22-45	1 1/4 SF	& 2 SF	TF22	1	LZ-0577-22-60	BLANK	& 7/8 ORB
QW25	' 1	LZ-0577-25-45	1 1/4 SF	& 2 SF	TF25	1	LZ-0577-25-60	BLANK	& 7/8 ORB
QX15	' 1	LZ-0577-15-44	1 1/2 SF	& 1 SF	TG12	' 1	LZ-0577-12-63	BLANK	& 1 ORB
QX17	' 1	LZ-0577-17-44	1 1/2 SF	& 1 SF	TG15	+ 1	LZ-0577-15-63	BLANK	& 1 ORB
QX20	' 1	LZ-0577-20-44	1 1/2 SF	& 1 SF	TG17	+ 1	LZ-0577-17-63	BLANK	& 1 ORB
QX22	1	LZ-0577-22-44	1 1/2 SF	& 1 SF	TG20	1	LZ-0577-20-63	BLANK	& 1 ORB
QX25	1	LZ-0577-25-44	1 1/2 SF	& 1 SF	TG22	1	LZ-0577-22-63	BLANK	& 1 ORB
QY15	' + 1	LZ-0577-15-38	1 1/2 SF	& 1 1/4 SF	TG25	1	LZ-0577-25-63	BLANK	& 1 ORB
QY17	' + 1	LZ-0577-17-38	1 1/2 SF	& 1 1/4 SF	TI15	' 1	LZ-0577-15-66	BLANK	& 1 1/4 ORB
QY20	' 1	LZ-0577-20-38	1 1/2 SF	& 1 1/4 SF	TI17	' 1	LZ-0577-17-66	BLANK	& 1 1/4 ORB
QY22	1	LZ-0577-22-38	1 1/2 SF	& 1 1/4 SF	TI20	+ 1	LZ-0577-20-66	BLANK	& 1 1/4 ORB
QY25	1	LZ-0577-25-38	1 1/2 SF	& 1 1/4 SF	TI22	1	LZ-0577-22-66	BLANK	& 1 1/4 ORB
RB17	1	LZ-0577-17-40	1 1/2 SF	& 1 1/2 SF	TI25	1	LZ-0577-25-66	BLANK	& 1 1/4 ORB
RB20	+ + 1	LZ-0577-20-40	1 1/2 SF	& 1 1/2 SF	TJ20	' 1	LZ-0577-20-69	BLANK	& 1 1/2 ORB
RB22	1	LZ-0577-22-40	1 1/2 SF	& 1 1/2 SF	TJ22	+ 1	LZ-0577-22-69	BLANK	& 1 1/2 ORB
RB25	1	LZ-0577-25-40	1 1/2 SF	& 1 1/2 SF	TJ25	1	LZ-0577-25-69	BLANK	& 1 1/2 ORB
RC20	+ ' 1	LZ-0577-20-41	1 1/2 SF	& 2 SF	TO07	1	LZ-0577-07-51	1/2 ORB	& BLANK

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Housings

CODE	QTY	PART NUMBER	DESCRIPTION		CODE	QTY	PART NUMBER	DESCRIPTION	
TO10	1	LZ-0577-10-51	1/2 ORB	& BLANK	UJ17	1	LZ-0577-17-62	1 ORB	& 7/8 ORB
TO12	1	LZ-0577-12-51	1/2 ORB	& BLANK	UJ20	1	LZ-0577-20-62	1 ORB	& 7/8 ORB
TO15	1	LZ-0577-15-51	1/2 ORB	& BLANK	UJ22	1	LZ-0577-22-62	1 ORB	& 7/8 ORB
TP10	1	LZ-0577-10-54	5/8 ORB	& BLANK	UJ25	1	LZ-0577-25-62	1 ORB	& 7/8 ORB
TP12	1	LZ-0577-12-54	5/8 ORB	& BLANK	UK12	1	LZ-0577-12-64	1 ORB	& 1 ORB
TP15	1	LZ-0577-15-54	5/8 ORB	& BLANK	UK15	+ + 1	LZ-0577-15-64	1 ORB	& 1 ORB
TQ10	+ 1	LZ-0577-10-57	3/4 ORB	& BLANK	UK17	+ + 1	LZ-0577-17-64	1 ORB	& 1 ORB
TQ12	+ 1	LZ-0577-12-57	3/4 ORB	& BLANK	UK20	1	LZ-0577-20-64	1 ORB	& 1 ORB
TQ15	1	LZ-0577-15-57	3/4 ORB	& BLANK	UK22	1	LZ-0577-22-64	1 ORB	& 1 ORB
TQ17	1	LZ-0577-17-57	3/4 ORB	& BLANK	UK25	1	LZ-0577-25-64	1 ORB	& 1 ORB
TR12	+ 1	LZ-0577-12-60	7/8 ORB	& BLANK	UL15	+ ' 1	LZ-0577-15-65	1 ORB	& 1 1/4 ORB
TR15	+ 1	LZ-0577-15-60	7/8 ORB	& BLANK	UL17	+ ' 1	LZ-0577-17-65	1 ORB	& 1 1/4 ORB
TR17	1	LZ-0577-17-60	7/8 ORB	& BLANK	UL20	' 1	LZ-0577-20-65	1 ORB	& 1 1/4 ORB
TR20	1	LZ-0577-20-60	7/8 ORB	& BLANK	UL22	1	LZ-0577-22-65	1 ORB	& 1 1/4 ORB
TR22	1	LZ-0577-22-60	7/8 ORB	& BLANK	UL25	1	LZ-0577-25-65	1 ORB	& 1 1/4 ORB
TR25	1	LZ-0577-25-60	7/8 ORB	& BLANK	UM17	+ ' 1	LZ-0577-17-74	1 ORB	& 1 1/2 ORB
TS12	' 1	LZ-0577-12-63	1 ORB	& BLANK	UR15	' + 1	LZ-0577-15-65	1 1/4 ORB	& 1 ORB
TS15	+ 1	LZ-0577-15-63	1 ORB	& BLANK	UR17	' + 1	LZ-0577-17-65	1 1/4 ORB	& 1 ORB
TS17	+ 1	LZ-0577-17-63	1 ORB	& BLANK	UR20	' 1	LZ-0577-20-65	1 1/4 ORB	& 1 ORB
TS20	1	LZ-0577-20-63	1 ORB	& BLANK	UR22	1	LZ-0577-22-65	1 1/4 ORB	& 1 ORB
TS22	1	LZ-0577-22-63	1 ORB	& BLANK	UR25	1	LZ-0577-25-65	1 1/4 ORB	& 1 ORB
TS25	1	LZ-0577-25-63	1 ORB	& BLANK	US20	+ + 1	LZ-0577-20-67	1 1/4 ORB	& 1 1/4 ORB
TU15	' 1	LZ-0577-15-66	1 1/4 ORB	& BLANK	US22	1	LZ-0577-22-67	1 1/4 ORB	& 1 1/4 ORB
TU17	' 1	LZ-0577-17-66	1 1/4 ORB	& BLANK	US25	1	LZ-0577-25-67	1 1/4 ORB	& 1 1/4 ORB
TU20	+ 1	LZ-0577-20-66	1 1/4 ORB	& BLANK	UT20	+ ' 1	LZ-0577-20-68	1 1/4 ORB	& 1 1/2 ORB
TU22	1	LZ-0577-22-66	1 1/4 ORB	& BLANK	UT22	' 1	LZ-0577-22-68	1 1/4 ORB	& 1 1/2 ORB
TU25	1	LZ-0577-25-66	1 1/4 ORB	& BLANK	UT25	1	LZ-0577-25-68	1 1/4 ORB	& 1 1/2 ORB
TV20	' 1	LZ-0577-20-69	1 1/2 ORB	& BLANK	UY20	' + 1	LZ-0577-20-68	1 1/2 ORB	& 1 1/4 ORB
TV22	+ 1	LZ-0577-22-69	1 1/2 ORB	& BLANK	UY22	' 1	LZ-0577-22-68	1 1/2 ORB	& 1 1/4 ORB
TV25	1	LZ-0577-25-69	1 1/2 ORB	& BLANK	UY25	1	LZ-0577-25-68	1 1/2 ORB	& 1 1/4 ORB
UB12	+ ' 1	LZ-0577-12-62	7/8 ORB	& 1 ORB	VB22	1	LZ-0577-22-70	1 1/2 ORB	& 1 1/2 ORB
UB15	+ 1	LZ-0577-15-62	7/8 ORB	& 1 ORB	VB25	1	LZ-0577-25-70	1 1/2 ORB	& 1 1/2 ORB
UB17	1	LZ-0577-17-62	7/8 ORB	& 1 ORB	XB07	1	LZ-0577-07-52	1/2 ORB	& 1/2 ORB
UB20	1	LZ-0577-20-62	7/8 ORB	& 1 ORB	XB10	1	LZ-0577-10-52	1/2 ORB	& 1/2 ORB
UB22	1	LZ-0577-22-62	7/8 ORB	& 1 ORB	XB12	1	LZ-0577-12-52	1/2 ORB	& 1/2 ORB
UB25	1	LZ-0577-25-62	7/8 ORB	& 1 ORB	XB15	1	LZ-0577-15-52	1/2 ORB	& 1/2 ORB
UF17	' + 1	LZ-0577-17-74	1 1/2 ORB	& 1 ORB	XC10	1	LZ-0577-10-53	1/2 ORB	& 5/8 ORB
UI10	' + 1	LZ-0577-10-71	1 ORB	& 3/4 ORB	XC12	1	LZ-0577-12-53	1/2 ORB	& 5/8 ORB
UJ12	' + 1	LZ-0577-12-62	1 ORB	& 7/8 ORB	XC15	1	LZ-0577-15-53	1/2 ORB	& 5/8 ORB
UJ15	+ 1	LZ-0577-15-62	1 ORB	& 7/8 ORB	XI10	1	LZ-0577-10-53	5/8 ORB	& 1/2 ORB

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Housings

CODE	QTY	PART NUMBER	D E S C R I P T I O N		CODE	QTY	PART NUMBER	D E S C R I P T I O N	
XI12	1	LZ-0577-12-53	5/8 ORB	& 1/2 ORB	XY25	1	LZ-0577-25-61	7/8 ORB	& 7/8 ORB
XI15	1	LZ-0577-15-53	5/8 ORB	& 1/2 ORB	YB15	1	LZ-0577-15-27	1/2 SF	& 1/2 SF
XJ10	1	LZ-0577-10-55	5/8 ORB	& 5/8 ORB	YB17	1	LZ-0577-17-27	1/2 SF	& 1/2 SF
XJ12	1	LZ-0577-12-55	5/8 ORB	& 5/8 ORB	YB20	1	LZ-0577-20-27	1/2 SF	& 1/2 SF
XJ15	1	LZ-0577-15-55	5/8 ORB	& 5/8 ORB	YB22	1	LZ-0577-22-27	1/2 SF	& 1/2 SF
XJ17	1	LZ-0577-17-55	5/8 ORB	& 5/8 ORB	YB25	1	LZ-0577-25-27	1/2 SF	& 1/2 SF
XJ20	1	LZ-0577-20-55	5/8 ORB	& 5/8 ORB	YE15	1	LZ-0577-15-28	1/2 SF	& 3/4 SF
XK10	' 1	LZ-0577-10-56	5/8 ORB	& 3/4 ORB	YE17	1	LZ-0577-17-28	1/2 SF	& 3/4 SF
XK12	' 1	LZ-0577-12-56	5/8 ORB	& 3/4 ORB	YE20	1	LZ-0577-20-28	1/2 SF	& 3/4 SF
XK15	1	LZ-0577-15-56	5/8 ORB	& 3/4 ORB	YE22	1	LZ-0577-22-28	1/2 SF	& 3/4 SF
XK17	1	LZ-0577-17-56	5/8 ORB	& 3/4 ORB	YE25	1	LZ-0577-25-28	1/2 SF	& 3/4 SF
XP10	' 1	LZ-0577-10-56	3/4 ORB	& 5/8 ORB	YO15	1	LZ-0577-15-28	3/4 SF	& 1/2 SF
XP12	' 1	LZ-0577-12-56	3/4 ORB	& 5/8 ORB	YO17	1	LZ-0577-17-28	3/4 SF	& 1/2 SF
XP15	1	LZ-0577-15-56	3/4 ORB	& 5/8 ORB	YO20	1	LZ-0577-20-28	3/4 SF	& 1/2 SF
XP17	1	LZ-0577-17-56	3/4 ORB	& 5/8 ORB	YO22	1	LZ-0577-22-28	3/4 SF	& 1/2 SF
XQ10	+ + 1	LZ-0577-10-58	3/4 ORB	& 3/4 ORB	YO25	1	LZ-0577-25-28	3/4 SF	& 1/2 SF
XQ12	+ + 1	LZ-0577-12-58	3/4 ORB	& 3/4 ORB	YQ10	1	LZ-0577-10-30	3/4 SF	& 3/4 SF
XQ15	1	LZ-0577-15-58	3/4 ORB	& 3/4 ORB	YQ12	1	LZ-0577-12-30	3/4 SF	& 3/4 SF
XQ17	1	LZ-0577-17-58	3/4 ORB	& 3/4 ORB	YQ15	1	LZ-0577-15-30	3/4 SF	& 3/4 SF
XQ20	1	LZ-0577-20-58	3/4 ORB	& 3/4 ORB	YQ17	1	LZ-0577-17-30	3/4 SF	& 3/4 SF
XQ22	1	LZ-0577-22-58	3/4 ORB	& 3/4 ORB	YQ20	1	LZ-0577-20-30	3/4 SF	& 3/4 SF
XQ25	1	LZ-0577-25-58	3/4 ORB	& 3/4 ORB	YQ22	1	LZ-0577-22-30	3/4 SF	& 3/4 SF
XR12	' 1	LZ-0577-12-59	3/4 ORB	& 7/8 ORB	YQ25	1	LZ-0577-25-30	3/4 SF	& 3/4 SF
XR15	1	LZ-0577-15-59	3/4 ORB	& 7/8 ORB	YS15	1	LZ-0577-15-31	3/4 SF	& 1 SF
XR17	1	LZ-0577-17-59	3/4 ORB	& 7/8 ORB	YS17	1	LZ-0577-17-31	3/4 SF	& 1 SF
XR20	1	LZ-0577-20-59	3/4 ORB	& 7/8 ORB	YS20	1	LZ-0577-20-31	3/4 SF	& 1 SF
XR22	1	LZ-0577-22-59	3/4 ORB	& 7/8 ORB	YS22	1	LZ-0577-22-31	3/4 SF	& 1 SF
XR25	1	LZ-0577-25-59	3/4 ORB	& 7/8 ORB	YS25	1	LZ-0577-25-31	3/4 SF	& 1 SF
XS10	+ ' 1	LZ-0577-10-71	3/4 ORB	& 1 ORB	YT15	' 1	LZ-0577-15-37	3/4 SF	& 1 1/4 SF
XW12	' 1	LZ-0577-12-59	7/8 ORB	& 3/4 ORB	YT17	' 1	LZ-0577-17-37	3/4 SF	& 1 1/4 SF
XW15	1	LZ-0577-15-59	7/8 ORB	& 3/4 ORB	YT20	1	LZ-0577-20-37	3/4 SF	& 1 1/4 SF
XW17	1	LZ-0577-17-59	7/8 ORB	& 3/4 ORB	YT22	1	LZ-0577-22-37	3/4 SF	& 1 1/4 SF
XW20	1	LZ-0577-20-59	7/8 ORB	& 3/4 ORB	YT25	1	LZ-0577-25-37	3/4 SF	& 1 1/4 SF
XW22	1	LZ-0577-22-59	7/8 ORB	& 3/4 ORB	ZA02	1	LZ-0577-02	BLANK	& BLANK
XW25	1	LZ-0577-25-59	7/8 ORB	& 3/4 ORB	ZA05	1	LZ-0577-05	BLANK	& BLANK
XY12	+ + 1	LZ-0577-12-61	7/8 ORB	& 7/8 ORB	ZA07	1	LZ-0577-07	BLANK	& BLANK
XY15	+ + 1	LZ-0577-15-61	7/8 ORB	& 7/8 ORB	ZA10	1	LZ-0577-10	BLANK	& BLANK
XY17	1	LZ-0577-17-61	7/8 ORB	& 7/8 ORB	ZA12	1	LZ-0577-12	BLANK	& BLANK
XY20	1	LZ-0577-20-61	7/8 ORB	& 7/8 ORB	ZA15	1	LZ-0577-15	BLANK	& BLANK
XY22	1	LZ-0577-22-61	7/8 ORB	& 7/8 ORB	ZA17	1	LZ-0577-17	BLANK	& BLANK

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Housings

CODE	QTY	PART NUMBER	D E S C R I P T I O N		CODE	QTY	PART NUMBER	D E S C R I P T I O N	
ZA20	1	LZ-0577-20	BLANK	& BLANK	ZU22	1	LZ-0577-22-7	1 1/4 NPT	& BLANK
ZA22	1	LZ-0577-22	BLANK	& BLANK	ZU25	1	LZ-0577-25-7	1 1/4 NPT	& BLANK
ZA25	1	LZ-0577-25	BLANK	& BLANK	ZV20	1	LZ-0577-20-17	1 1/2 NPT	& BLANK
ZB07	1	LZ-0577-07-14	BLANK	& 1/2 NPT	ZV22	1	LZ-0577-22-17	1 1/2 NPT	& BLANK
ZE07	1	LZ-0577-07-1	BLANK	& 3/4 NPT	ZV25	1	LZ-0577-25-17	1 1/2 NPT	& BLANK
ZE10	1	LZ-0577-10-1	BLANK	& 3/4 NPT					
ZE12	1	LZ-0577-12-1	BLANK	& 3/4 NPT					
ZE15	1	LZ-0577-15-1	BLANK	& 3/4 NPT					
ZE17	1	LZ-0577-17-1	BLANK	& 3/4 NPT					
ZE20	1	LZ-0577-20-1	BLANK	& 3/4 NPT					
ZG10	1	LZ-0577-10-4	BLANK	& 1 NPT					
ZG12	1	LZ-0577-12-4	BLANK	& 1 NPT					
ZG15	1	LZ-0577-15-4	BLANK	& 1 NPT					
ZG17	1	LZ-0577-17-4	BLANK	& 1 NPT					
ZG20	1	LZ-0577-20-4	BLANK	& 1 NPT					
ZG22	1	LZ-0577-22-4	BLANK	& 1 NPT					
ZG25	1	LZ-0577-25-4	BLANK	& 1 NPT					
ZI17	1	LZ-0577-17-7	BLANK	& 1 1/4 NPT					
ZI20	1	LZ-0577-20-7	BLANK	& 1 1/4 NPT					
ZI22	1	LZ-0577-22-7	BLANK	& 1 1/4 NPT					
ZI25	1	LZ-0577-25-7	BLANK	& 1 1/4 NPT					
ZJ20	1	LZ-0577-20-17	BLANK	& 1 1/2 NPT					
ZJ22	1	LZ-0577-22-17	BLANK	& 1 1/2 NPT					
ZJ25	1	LZ-0577-25-17	BLANK	& 1 1/2 NPT					
ZO07	1	LZ-0577-07-14	1/2 NPT	& BLANK					
ZQ07	1	LZ-0577-07-1	3/4 NPT	& BLANK					
ZQ10	1	LZ-0577-10-1	3/4 NPT	& BLANK					
ZQ12	1	LZ-0577-12-1	3/4 NPT	& BLANK					
ZQ15	1	LZ-0577-15-1	3/4 NPT	& BLANK					
ZQ17	1	LZ-0577-17-1	3/4 NPT	& BLANK					
ZQ20	1	LZ-0577-20-1	3/4 NPT	& BLANK					
ZS10	1	LZ-0577-10-4	1 NPT	& BLANK					
ZS12	1	LZ-0577-12-4	1 NPT	& BLANK					
ZS15	1	LZ-0577-15-4	1 NPT	& BLANK					
ZS17	1	LZ-0577-17-4	1 NPT	& BLANK					
ZS20	1	LZ-0577-20-4	1 NPT	& BLANK					
ZS22	1	LZ-0577-22-4	1 NPT	& BLANK					
ZS25	1	LZ-0577-25-4	1 NPT	& BLANK					
ZU17	1	LZ-0577-17-7	1 1/4 NPT	& BLANK					
ZU20	1	LZ-0577-20-7	1 1/4 NPT	& BLANK					

PERMCO MODEL: 2500

HOUSING SMALL PARTS

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
	2	TA-2995-244	SQUARE GASKET SEAL
	2	X-0947-TC	TEFLON THRUST PLATE

PERMCO MODEL: 2500

Gear and Shaft Combinations

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
05	1	JZ-0996L-05	1/2 GEAR SET
07	1	JZ-0996L-07	3/4 GEAR SET
10	1	JZ-0996L-10	1 GEAR SET
12	1	JZ-0996L-12	1 1/4 GEAR SET
15	1	JZ-0996L-15	1 1/2 GEAR SET
17	1	JZ-0996L-17	1 3/4 GEAR SET
20	1	JZ-0996L-20	2 GEAR SET
22	1	JZ-0996L-22	2 1/4 GEAR SET
25	1	JZ-0996L-25	2 1/2 GEAR SET

PERMCO MODEL: 2500

DRIVE SHAFTS OR GEAR/SHAFTS

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>	<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
00	1	QA-0024	2500 SHAFT KEYED 1-1/4 DIA	6	1	OA-0024	TYPE I 14T SPLINE SAE C
08	1	WD-0024	2500 6TOOTH 1-1/8 DIA TYPI	62	1	TB-0024-1	2500 SHAFT KEYED 1-1/4 DIA
1	1	WA-0024	2500 SHAFT KEYED 1-1/8 DIA	63	* 1	JC-0024	OBSOLETE
14	1	UA-0024	2500 SHAFT 13 TOOTH 7/8 DIA	65	* 1	LC-0024	OBSOLETE
15	1	SA-0024	2500 SHAFT KEYED 7/8 DIA	67	* 1	QC-0024	OBSOLETE
16	* 1	BB-0024	TYPE I SPECIAL	69	* 1	FC-0024	2500 KYED 63/64 DIA.TYPE II
18	* 1	SB-0024		71	1	XC-0024	2500 6TOOTH 1-1/8 DIA TYPE III
19	* 1	FA-0024-2		72	* 1	YC-0024	TYPE III KEYED
2	1	AB-0024	2500 SHAFT 6 TOOTH 1-7/64 DIA	73	* 1	DD-0024	TYPE III KEYED
27	1	VA-0024	2500 SHAFT KEYED 7/8 DIA	74	* 1	OA-0024-1	OBSOLETE
28	1	VA-0024-1	2500 SHAFT KEYED 7/8 DIA	77	* 1	LD-0024	TYPE III USE CODE 62
29	1	ZB-0024	2500 SHAFT KEYED 7/8 DIA	79	* 1	WC-0024	OBSOLETE
31	1	YA-0024	2500 SHAFT 6 TOOTH 63/64 DIA	8	* 1	MB-0024	TYPE I KEYED
32	1	GA-0024	2500 SHAFT KEYED 1 DIA	82	* 1	RD-0024	OBSOLETE
33	1	JB-0024	2500 SHAFT 6 TOOTH 7/8 DIA	83	1	SD-0024	2500 SHAFT 6 TOOTH 1 DIA
34	* 1	IB-0024	TYPE II KEYED	88	1	JB-0024	2500 6 TOOTH PTO TYPE II
35	1	GB-0024	6 TOOTH 63/64 DIA. TYPE II	9	* 1	ZN-0024	TYPE I TAPERED KEYED
36	1	FB-0024	1 DIA. KEYED TYPE II				
37	1	CB-0024	7/8 DIA. 13TOOTH TYPE II				
38	* 1	IA-0024					
39	1	EA-0024	2500 SHAFT 6 TOOTH 7/8 DIA				
40	* 1	FA-0024					
41	* 1	FA-0024-1	TYPE I KEYED				
42	1	DB-0024	2500 SHAFT 14 TOOTH 1-1/4 DIA				
44	1	EB-0024	(OBSOLETE)SHAFT 2500 14 TOOTH				
46	* 1	LB-0024	OBSOLETE				
47	* 1	OB-0024	TYPE II KEYED				
48	* 1	QB-0024	OBSOLETE				
49	1	KA-0024	TYPE I KEYED				
5	1	XA-0024	TYPE I 6T PTO/ALT. WD-0024				
50	* 1	UB-0024	TYPE II KEYED				
51	* 1	VB-0024	OBSOLETE				
52	* 1	WB-0024	OBSOLETE				
58	* 1	EC-0024	OBSOLETE				
59	* 1	TB-0024	TYPE III USE TB-0024-1				

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DRIVE SHAFT SMALL PARTS

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
00	1	W09-27	5/16 X 15/32 X 1-1/2 KEY	44	1	CA-0558	2500 BEARING RETAINER
00	1	W86-100	2500 SNAP RING	44	1	W093-02	2500 SNAP RING
00	1	XZ-0558-1	2500 BEARING SPACER	47	1	DA-0558	2500 THRUST WASHER
1	1	W09-01	1/4 X 3/8 X 1-3/4 KEY	47	1	W09-14	3/16 X 9/32 X 7/8 KEY
15	1	W09-38	1/4 X 3/8 X 7/8 KEY	48	1	W09-10	3/16 X 7/16 X 1 WDRF KEY
16	1	W09-27	5/16 X 15/32 X 1-1/2 KEY	49	1	W09-02	1/4 X 3/8 X 1-1/4 KEY
16	1	W24-15	2500 3700 SLOTTED NUT	50	1	CA-0558	2500 BEARING RETAINER
16	1	W8-07	2500 COTTER 1.875	50	1	W09-27	5/16 X 15/32 X 1-1/2 KEY
16	1	W86-100	2500 SNAP RING	50	1	W093-02	2500 SNAP RING
16	1	XZ-0558-1	2500 BEARING SPACER	51	1	W09-14	3/16 X 9/32 X 7/8 KEY
18	1	W09-43	5/16 X 5/16 X 1 KEY	52	1	W86-100	2500 SNAP RING
18	1	W86-100	2500 SNAP RING	52	1	XZ-0558-1	2500 BEARING SPACER
18	1	XZ-0558-1	2500 BEARING SPACER	58	1	W86-100	2500 SNAP RING
19	1	W09-02	1/4 X 3/8 X 1-1/4 KEY	58	1	XZ-0558-1	2500 BEARING SPACER
27	1	W09-19	3/16 X 9/32 X 1-1/4 KEY	59	1	W09-44	5/16 X 15/32 X 2-1/4 KEY
28	1	W09-19	3/16 X 9/32 X 1-1/4 KEY	59	1	W86-100	2500 SNAP RING
29	1	W09-06	1/4 X 3/8 X 1 KEY	59	1	XZ-0558-2	2500 BEARING SPACER
32	1	W09-02	1/4 X 3/8 X 1-1/4 KEY	6	1	W86-100	2500 SNAP RING
33	1	DA-0558	2500 THRUST WASHER	6	1	XZ-0558-1	2500 BEARING SPACER
34	1	DA-0558	2500 THRUST WASHER	62	1	W09-44	5/16 X 15/32 X 2-1/4 KEY
34	1	W09-19	3/16 X 9/32 X 1-1/4 KEY	62	1	W86-100	2500 SNAP RING
35	1	DA-0558	2500 THRUST WASHER	62	1	XZ-0558-2	2500 BEARING SPACER
36	1	DA-0558	2500 THRUST WASHER	63	1	W86-100	2500 SNAP RING
36	1	W09-02	1/4 X 3/8 X 1-1/4 KEY	63	1	XZ-0558-1	2500 BEARING SPACER
37	1	DA-0558	2500 THRUST WASHER	65	1	W09-00	1/4 X 3/8 X 1-1/2 KEY
40	1	W09-06	1/4 X 3/8 X 1 KEY	65	1	W86-100	2500 SNAP RING
41	1	W09-02	1/4 X 3/8 X 1-1/4 KEY	65	1	XZ-0558-1	2500 BEARING SPACER
42	1	CA-0558	2500 BEARING RETAINER	69	1	DA-0558	2500 THRUST WASHER
42	1	W093-02	2500 SNAP RING	69	1	W09-06	1/4 X 3/8 X 1 KEY
				71	1	W86-100	2500 SNAP RING
				71	1	XZ-0558-2	2500 BEARING SPACER
				72	1	W86-100	2500 SNAP RING

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DRIVE SHAFT SMALL PARTS

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
72	1	XZ-0558-2	2500 BEARING SPACER
73	1	W09-01	1/4 X 3/8 X 1-3/4 KEY
73	1	XZ-0558-2	2500 BEARING SPACER
74	1	W86-100	2500 SNAP RING
74	1	XZ-0558-1	2500 BEARING SPACER
77	1	W09-44	5/16 X 15/32 X 2-1/4 KEY
77	1	W86-100	2500 SNAP RING
77	1	XZ-0558-2	2500 BEARING SPACER
79	1	W86-100	2500 SNAP RING
79	1	XZ-0558-1	2500 BEARING SPACER
8	1	W09-02	1/4 X 3/8 X 1-1/4 KEY
8	1	W86-100	2500 SNAP RING
8	1	XZ-0558-1	2500 BEARING SPACER
82	1	W09-09	1/4 X 3/8 X 2-1/4 KEY
82	1	W86-100	2500 SNAP RING
82	1	XZ-0558-1	2500 BEARING SPACER
88	1	DA-0558	2500 THRUST WASHER
9	1	W09-505	#505 WOODRUFF KEY

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Bearing Carriers

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>	<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
A	1	JA-0576	BLANK X BLANK	CB	1	JZ-0576-4-6	1 NPT-B & 1 1/4 NPT-T
AA	1	JZ-0576-2-6	1 NPT-T & 1 1/4 NPT-T	CC	1	JZ-0576-4-107	1 1/4 NPT-B & T
AB	1	JZ-0576-2-7	T & 1 1/4 NPT-T	CE	1	JZ-0576-4-8	1 1/4 NPT-B & 1 1/4 NPT-T
AC	1	JZ-0576-2-7	1 1/4 NPT-T & T	CF	1	JZ-0576-5-2	3/4 NPT-B & 3/4 NPT-B
AE	1	JZ-0576-2-8	1 1/4 NPT-T & 1 1/4 NPT-T	CG	1	JZ-0576-5-5	1 NPT-B & 1 NPT-B
AF	1	JZ-0576-3-101	T & 3/4 NPT-B	CI	1	JZ-0576-5-8	1 1/4 NPT-B & 1 1/4 NPT-B
AG	1	JZ-0576-3-2	3/4 NPT-T & 3/4 NPT-B	CJ	1	JZ-0576-5-2	3/4 NPT-F & 3/4 NPT-F
AI	1	JZ-0576-3-3	1 NPT-T & 3/4 NPT-B	CK	1	JZ-0576-5-5	1 NPT-F & 1 NPT-F
AK	1	JZ-0576-3-104	T & 1 NPT-B	CL	1	JZ-0576-5-8	1 1/4 NPT-F & 1 1/4 NPT-F
AL	1	JZ-0576-3-5	1 NPT-T & 1 NPT-B	CM	1	JZ-0576-7-2	3/4 NPT-F & 3/4 NPT-B
AM	1	JZ-0576-3-6	1 1/4 NPT-T & 1 NPT-B	CO	1	JZ-0576-7-5	1 NPT-F & 1 NPT-B
AO	1	JZ-0576-3-106	1 NPT-T & 1 1/4 NPT-B	CP	1	JZ-0576-7-8	1 1/4 NPT-F & 1 1/4 NPT-B
AQ	1	JZ-0576-3-8	1 1/4 NPT-T & 1 1/4 NPT-B	CQ	1	JZ-0576-6-2	3/4 NPT-B & 3/4 NPT-F
AR	1	JZ-0576-3-101	3/4 NPT-F & T	CR	1	JZ-0576-6-5	1 NPT-B & 1 NPT-F
AS	1	JZ-0576-3-2	3/4 NPT-F & 3/4 NPT-T	CS	1	JZ-0576-6-8	1 1/4 NPT-B & 1 1/4 NPT-F
AV	1	JZ-0576-3-3	3/4 NPT-F & 1 NPT-T	CU	1	JZ-0576-9-101	BLANK & 3/4 NPT-F
AW	1	JZ-0576-3-104	1 NPT-F & T	CV	1	JZ-0576-9-104	BLANK & 1 NPT-F
AY	1	JZ-0576-3-5	1 NPT-F & 1 NPT-T	CW	1	JZ-0576-9-107	BLANK & 1 1/4 NPT-F
B	1	JA-0576-1	T & BLANK	CY	1	JZ-0576-9-101	3/4 NPT-B & BLANK
BA	1	JZ-0576-3-106	1 1/4 NPT-F & 1 NPT-T	E	1	JZ-0576-1-4	1 NPT-T & BLANK
BB	1	JZ-0576-3-6	1 NPT-F & 1 1/4 NPT-T	EA	1	JZ-0576-9-104	1 NPT-B & BLANK
BC	1	JZ-0576-3-107	1 1/4 NPT-F & T	EB	1	JZ-0576-9-107	1 1/4 NPT-B & BLANK
BE	1	JZ-0576-3-8	1 1/4 NPT-F & 1 1/4 NPT-T	EC	1	JZ-0576-8-1	BLANK & 3/4 NPT-B
BF	1	JZ-0576-4-101	T & 3/4 NPT-F	EE	1	JZ-0576-8-4	BLANK & 1 NPT-B
BG	1	JZ-0576-4-2	3/4 NPT-T & 3/4 NPT-F	EF	1	JZ-0576-8-7	BLANK & 1 1/4 NPT-B
BI	1	JZ-0576-4-3	1 NPT-T & 3/4 NPT-F	EG	1	JZ-0576-8-1	3/4 NPT-F & BLANK
BJ	1	JZ-0576-4-103	3/4 NPT-T & 1 NPT-F	EI	1	JZ-0576-8-4	1 NPT-F & BLANK
BK	1	JZ-0576-4-104	T & 1 NPT-F	EJ	1	JZ-0576-8-7	1 1/4 NPT-F & BLANK
BL	1	JZ-0576-4-5	1 NPT-T & 1 NPT-F	EK	1	JZ-0576-1-29	3/4 SF-T & BLANK
BM	1	JZ-0576-4-6	1 1/4 NPT-T & 1 NPT-F	EL	1	JZ-0576-1-32	1 SF-T & BLANK
BO	1	JZ-0576-4-106	1 NPT-T & 1 1/4 NPT-F	EM	1	JZ-0576-1-35	1 1/4 SF-T & BLANK
BQ	1	JZ-0576-4-8	1 1/4 NPT-T & 1 1/4 NPT-F	EO	1	JZ-0576-1-39	1 1/2 SF-T & BLANK
BR	1	JZ-0576-4-101	3/4 NPT-B & T	EP	1	JZ-0576-1-29	BLANK & 3/4 SF-T
BS	1	JZ-0576-4-2	3/4 NPT-B & 3/4 NPT-T	EQ	1	JZ-0576-1-32	BLANK & 1 SF-T
BU	1	JZ-0576-4-103	1 NPT-B & 3/4 NPT-T	ER	1	JZ-0576-1-35	BLANK & 1 1/4 SF-T
BV	1	JZ-0576-4-3	3/4 NPT-B & 1 NPT-T	ES	1	JZ-0576-1-39	BLANK & 1 1/2 SF-T
BW	1	JZ-0576-4-104	1 NPT-B & T	EY	1	JZ-0576-2-31	1 SF-T & 3/4 SF-T
BY	1	JZ-0576-4-5	1 NPT-B & 1 NPT-T	F	1	JZ-0576-1-7	1 1/4 NPT-T & BLANK
C	1	JZ-0576-1-1	3/4 NPT-T & BLANK	FA	1	JZ-0576-2-31	3/4 SF-T & 1 SF-T
CA	1	JZ-0576-4-106	1 1/4 NPT-B & 1 NPT-T	FB	1	JZ-0576-2-32	T & 1 SF-T

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Bearing Carriers

CODE	QTY	PART NUMBER	D E S C R I P T I O N		CODE	QTY	PART NUMBER	D E S C R I P T I O N	
FE	1	JZ-0576-2-33	1 SF-T	& 1 SF-T	KB	1	JZ-0576-4-33	1 SF-B	& 1 SF-T
FF	1	JZ-0576-2-34	1 1/4 SF-T	& 1 SF-T	KC	1	JZ-0576-4-134	1 1/4 SF-B	& 1 SF-T
FG	1	JZ-0576-2-34	1 SF-T	& 1 1/4 SF-T	KE	1	JZ-0576-4-34	1 SF-B	& 1 1/4 SF-T
FI	1	JZ-0576-2-35	T	& 1 1/4 SF-T	KF	1	JZ-0576-4-135	1 1/4 SF-B	& T
FJ	1	JZ-0576-2-35	1 1/4 SF-T	& T	KI	1	JZ-0576-4-138	1 1/2 SF-B	& 1 1/4 SF-T
FK	1	JZ-0576-2-36	1 1/4 SF-T	& 1 1/4 SF-T	KJ	1	JZ-0576-4-38	1 1/4 SF-B	& 1 1/2 SF-T
FP	1	JZ-0576-2-39	1 1/2 SF-T	& T	KL	1	JZ-0576-4-40	1 1/2 SF-B	& 1 1/2 SF-T
FQ	1	JZ-0576-2-40	1 1/2 SF-T	& 1 1/2 SF-T	KM	1	JZ-0576-5-30	3/4 SF-B	& 3/4 SF-B
FS	1	JZ-0576-3-30	3/4 SF-T	& 3/4 SF-B	KO	1	JZ-0576-5-33	1 SF-B	& 1 SF-B
FU	1	JZ-0576-3-31	1 SF-T	& 3/4 SF-B	KP	1	JZ-0576-5-36	1 1/4 SF-B	& 1 1/4 SF-B
G	1	JA-0576-1	BLANK	& T	KQ	1	JZ-0576-5-40	1 1/2 SF-B	& 1 1/2 SF-B
GA	1	JZ-0576-3-34	1 1/4 SF-T	& 1 SF-B	KS	1	JZ-0576-5-33	1 SF-F	& 1 SF-F
GB	1	JZ-0576-3-134	1 SF-T	& 1 1/4 SF-B	KU	1	JZ-0576-5-36	1 1/4 SF-F	& 1 1/4 SF-F
GE	1	JZ-0576-3-36	1 1/4 SF-T	& 1 1/4 SF-B	KY	1	JZ-0576-7-33	1 SF-F	& 1 SF-B
GF	1	JZ-0576-3-38	1 1/2 SF-T	& 1 1/4 SF-B	L	1	JA-0576-2	T	& T
GG	1	JZ-0576-3-138	1 1/4 SF-T	& 1 1/2 SF-B	LA	1	JZ-0576-7-36	1 1/4 SF-F	& 1 1/4 SF-B
GJ	1	JZ-0576-3-40	1 1/2 SF-T	& 1 1/2 SF-B	LB	1	JZ-0576-7-40	1 1/2 SF-F	& 1 1/2 SF-B
GO	1	JZ-0576-3-31	3/4 SF-F	& 1 SF-T	LE	1	JZ-0576-6-33	1 SF-B	& 1 SF-F
GP	1	JZ-0576-3-132	1 SF-F	& T	LI	1	JZ-0576-9-129	BLANK	& 3/4 SF-F
GS	1	JZ-0576-3-34	1 SF-F	& 1 1/4 SF-T	LJ	1	JZ-0576-9-132	BLANK	& 1 SF-F
GV	1	JZ-0576-3-36	1 1/4 SF-F	& 1 1/4 SF-T	LK	1	JZ-0576-9-135	BLANK	& 1 1/4 SF-F
I	1	JZ-0576-1-1	BLANK	& 3/4 NPT-T	LM	1	JZ-0576-9-129	3/4 SF-B	& BLANK
J	1	JZ-0576-1-4	BLANK	& 1 NPT-T	LO	1	JZ-0576-9-132	1 SF-B	& BLANK
JB	1	JZ-0576-3-40	1 1/2 SF-F	& 1 1/2 SF-T	LQ	1	JZ-0576-9-139	1 1/2 SF-B	& BLANK
JC	1	JZ-0576-4-129	T	& 3/4 SF-F	LS	1	JZ-0576-8-32	BLANK	& 1 SF-B
JE	1	JZ-0576-4-30	3/4 SF-T	& 3/4 SF-F	LU	1	JZ-0576-8-35	BLANK	& 1 1/4 SF-B
JF	1	JZ-0576-4-31	1 SF-T	& 3/4 SF-F	LV	1	JZ-0576-8-39	BLANK	& 1 1/2 SF-B
JG	1	JZ-0576-4-131	3/4 SF-T	& 1SF-F	LY	1	JZ-0576-8-32	1 SF-F	& BLANK
JH	1	JZ-0576-4-132	T	& 1 SF-F	M	1	JZ-0576-2-1	T	& 3/4 NPT-T
JK	1	JZ-0576-4-34	1 1/4 SF-T	& 1 SF-F	MA	1	JZ-0576-8-35	1 1/4 SF-F	& BLANK
JL	1	JZ-0576-4-134	1 SF-T	& 1 1/4 SF-F	MB	1	JZ-0576-8-39	1 1/2 SF-F	& BLANK
JM	1	JZ-0576-4-135	T	& 1 1/4 SF-F	MC	1	JZ-0576-1-57	3/4 ORB-T	& BLANK
JP	1	JZ-0576-4-38	1 1/2 SF-T	& 1 1/4 SF-F	ME	1	JZ-0576-1-63	1 ORB-T	& BLANK
JR	1	JZ-0576-4-139	T	& 1 1/2 SF-F	MF	1	JZ-0576-1-66	1 1/4 ORB-T	& BLANK
JS	1	JZ-0576-4-40	1 1/2 SF-T	& 1 1/2 SF-F	MI	1	JZ-0576-1-63	BLANK	& 1 ORB-T
JU	1	JZ-0576-4-129	3/4 SF-B	& T	MJ	1	JZ-0576-1-66	BLANK	& 1 1/4 ORB-T
JV	1	JZ-0576-4-30	3/4 SF-B	& 3/4 SF-T	MK	1	JZ-0576-2-57	T	& 3/4 ORB-T
JY	1	JZ-0576-4-31	3/4 SF-B	& 1 SF-T	MQ	1	JZ-0576-2-64	1 ORB-T	& 1 ORB-T
K	1	JZ-0576-1-7	BLANK	& 1 1/4 NPT-T	MR	1	JZ-0576-2-66	T	& 1 1/4 ORB-T
KA	1	JZ-0576-4-132	1 SF-B	& T	MS	1	JZ-0576-2-66	1 1/4 ORB-T	& T

PERMCO MODEL: 2500

Bearing Carriers

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>	<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
MU	1	JZ-0576-2-67	1 1/4 ORB-T & 1 1/4 ORB-T	SG	1	JZ-0576-1-69	1 1/2 ORB-T & BLANK
MV	1	JZ-0576-3-157	T & 3/4 ORB-B	SI	1	JZ-0576-1-17	BLANK & 1 1/2 NPT-T
MW	1	JZ-0576-3-58	3/4 ORB-T & 3/4 ORB-B	SJ	1	JZ-0576-3-74	1 1/2 ORB-T & 1 ORB-B
O	1	JZ-0576-2-1	3/4 NPT-T & T	SK	1	JZ-0576-1-17	1 1/2 NPT-T & BLANK
OA	1	JZ-0576-3-64	1 ORB-T & 1 ORB-B	SL	1	JZ-0576-1-69	BLANK & 1 1/2 ORB-T
OB	1	JZ-0576-3-66	T & 1 1/4 ORB-B	SM	1	JZ-0576-4-74	1 ORB-B & 1 1/2 ORB-T
OC	1	JZ-0576-3-67	1 1/4 ORB-T & 1 1/4 ORB-B	SO	1	JZ-0576-2-70	1 1/2 ORB-T & 1 1/2 ORB-T
OE	1	JZ-0576-3-157	3/4 ORB-F & T	SP	1	JZ-0576-2-13	1 1/2 NPT-T & 1 1/2 NPT-T
OG	1	JZ-0576-3-163	1 ORB-F & T	SR	1	JZ-0576-4-71	3/4 ORB-B & 1 ORB-T
OI	1	JZ-0576-3-64	1 ORB-F & 1 ORB-T	SS	1	JZ-0576-4-11	1 1/2 NPT-T & 1 NPT-F
OK	1	JZ-0576-3-67	1 1/4 ORB-F & 1 1/4 ORB-T	SU	1	JZ-0576-3-11	1 NPT-F & 1 1/2 NPT-T
OO	1	JZ-0576-4-163	T & 1 ORB-F	SV	1	JZ-0576-4-44	1 1/2 SF-T & 1 SF-F
OP	1	JZ-0576-4-64	1 ORB-T & 1 ORB-F	SW	1	JZ-0576-3-44	1 SF-F & 1 1/2 SF-T
OS	1	JZ-0576-4-157	3/4 ORB-B & T	SY	1	JZ-0576-3-74	1 ORB-F & 1 1/2 ORB-T
OV	1	JZ-0576-4-163	1 ORB-B & T	U	1	JZ-0576-2-4	1 NPT-T & T
OW	1	JZ-0576-4-64	1 ORB-B & 1 ORB-T	V	1	JZ-0576-2-5	1 NPT-T & 1 NPT-T
OY	1	JZ-0576-4-166	1 1/4 ORB-B & T	W	1	JZ-0576-2-6	1 1/4 NPT-T & 1 NPT-T
P	1	JZ-0576-2-2	3/4 NPT-T & 3/4 NPT-T	WB	1	JZ-0576-4-65	1 1/4 ORB-T & 1 ORB-F
PB	1	JZ-0576-5-53	3/4 ORB-B & 3/4 ORB-B	WC	1	JZ-0576-3-65	1 ORB-F & 1 1/4 ORB-T
PC	1	JZ-0576-5-64	1 ORB-B & 1 ORB-B	WE	1	JZ-0576-4-49	3/4 SF-B & 1 1/2 SF-T
PE	1	JZ-0576-5-67	1 1/4 ORB-B & 1 1/4 ORB-B	WF	1	JZ-0576-4-10	1 1/4 NPT-T & 3/4 NPT-F
PG	1	JZ-0576-5-64	1 ORB-F & 1 ORB-F	WG	1	JZ-0576-3-20	1 1/2 NPT-T & 3/4 NPT-B
PI	1	JZ-0576-5-67	1 1/4 ORB-F & 1 1/4 ORB-F	WQ	1	JZ-0576-4-20	3/4 NPT-B & 1 1/2 NPT-T
PJ	1	JZ-0576-7-58	3/4 ORB-F & 3/4 ORB-B	WR	1	JZ-0576-3-11	1 1/2 NPT-T & 1 NPT-B
PK	1	JZ-0576-7-64	1 ORB-F & 1 ORB-B	WS	1	JZ-0576-4-11	1 NPT-B & 1 1/2 NPT-T
PO	1	JZ-0576-6-64	1 ORB-B & 1 ORB-F	WU	1	JZ-0576-3-44	1 1/2 SF-T & 1 SF-B
PP	1	JZ-0576-6-67	1 1/4 ORB-B & 1 1/4 ORB-F	WV	1	JZ-0576-4-44	1 SF-B & 1 1/2 SF-T
PQ	1	JZ-0576-9-157	BLANK & 3/4 ORB-F	WW	1	JZ-0576-3-65	1 1/4 ORB-T & 1 ORB-B
PR	1	JZ-0576-9-163	BLANK & 1 ORB-F	WY	1	JZ-0576-4-65	1 ORB-B & 1 1/4 ORB-T
PS	1	JZ-0576-9-166	BLANK & 1 1/4 ORB-F				
PV	1	JZ-0576-9-163	1 ORB-B & BLANK				
PW	1	JZ-0576-9-166	1 1/4 ORB-B & BLANK				
Q	1	JZ-0576-2-3	1 NPT-T & 3/4 NPT-T				
R	1	JZ-0576-2-3	3/4 NPT-T & 1 NPT-T				
S	1	JZ-0576-2-4	T & 1 NPT-T				
SA	1	JZ-0576-8-63	BLANK & 1 ORB-B				
SB	1	JZ-0576-8-66	BLANK & 1 1/4 ORB-B				
SC	1	JZ-0576-8-57	3/4 ORB-F & BLANK				
SE	1	JZ-0576-8-63	1 ORB-F & BLANK				
SF	1	JZ-0576-8-66	1 1/4 ORB-F & BLANK				

PERMCO MODEL: 2500

BEARING CARRIER SMALL PARTS

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
	4	R-0921	CROWNED ROLLER BRNG
	2	W004-19	ROLL PIN
	2	ZQ-1909	SHAFT BUSHING

PERMCO MODEL: 2500

Gear and Connecting Shafts

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>
1	1	SZ-0022

<u>D E S C R I P T I O N</u>
2500 SHAFT CONNECTOR

PLASTIC PLUGS

NPT & BSPP	
Port size	Part#
1/8"	#8
1/4"	#11
3/8"	#17
1/2"	#23
3/4"	#30
1"	#42
1-1/4"	#53
1-1/2"	#57
2"	#68
2-1/2"	#78

ORB

1/2"	#23
3/8"	#17
5/8"	#27
3/4"	#35
7/8"	#42
1"	#44
1-1/4"	#53
1-1/2"	#57

SF & metric SF

1/2"	#12
3/4"	B-831-213
1"	B-831-214
1-1/4"	B-831-215
1-1/2"	B-831-216
2"	B-831-217
2-1/2"	B-831-218

FASTENERS FOR SINGLE UNITS

Gear Size Qty.	Part #	Bolt Length
1/2"	W1-13	4" 4
3/4"	W1-13	4" 4
1"	W1-58	4-1/2" 4
1-1/4"	W1-58	4-1/2" 4
1-1/2"	W1-14	5" 4
1-3/4"	W1-14	5" 4
2"	W1-78	5-1/2" 4
2-1/4"	W1-78	5-1/2" 4
2-1/2"	W1-65	6" 4

Washer # W033-2 4

Shaft Protectors

SP-1000-1	.656" Dia
SP-1000-2	.587" Dia
SP-1000-3	1" Dia
SP-1000-4	1-1/4" Splined & 1-1/8" Dia
SP-1000-5	1-1/4" Dia Keyed
SP-1000-6	1/2" Dia
SP-1000-7	5/8" Dia
SP-1000-8	3/4" Dia
SP-1000-8	7/8" Dia

Shaft Protectors

SP-1000-7 2

FASTENERS FOR DOUBLE UNITS

	Flush	Extended
Dual Section	7.62	9.62
Triple Section	11.25	13.25
Quad Section	14.88	16.88
***Add total gear width + above dimension to obtain stud length.		

Washer # W033-2 4
Nut # W3-65 4

Stud #	Description
ZD-0391-08	5/8-11 x 8"
ZD-0391-875	5/8-11 x 8.75"
ZD-0391-09	5/8-11 x 9"
ZD-0391-095	5/8-11 x 9.5"
ZD-0391-10	5/8-11 x 10"
ZD-0391-105	5/8-11 x 10.5"
ZD-0391-112	5/8-11 x 11.25"
ZD-0391-12	5/8-11 x 12"
ZD-0391-125	5/8-11 x 12.5"
ZD-0391-132	5/8-11 x 13.25"
ZD-0391-14	5/8-11 x 14"
ZD-0391-142	5/8-11 x 14.25"
ZD-0391-16	5/8-11 x 16"
ZD-0391-18	5/8-11 x 18"
ZD-0391-20	5/8-11 x 20"
ZD-0391-22	5/8-11 x 22"
ZD-0391-24	5/8-11 x 24"
ZD-0391-26	5/8-11 x 26"
ZD-0391-28	5/8-11 x 28"
ZD-0391-30	5/8-11 x 30"
ZD-0391-36	5/8-11 x 36"
ZD-0391-40	5/8-11 x 40"