

\* \* 2100 SERIES \* \*  
\* \* ENGINEERING CODEBOOK \* \*

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

THIS CODE BOOK IS FOR THE 2100 SERIES PUMPS AND MOTORS.

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: P7500A079AHNP20-6  
TANDEM ASSEMBLY CODE: P7500B079AHNP20-6BNI12-1

P DENOTES PUMP (M DENOTES MOTOR)

7500 SERIES

A B OR C MODEL TYPE (A-SINGLE B-TANDEM C-SPECIAL DRIVE SHAFT)

079 SHAFT END COVER

AH PORT END COVER

NP20 GEAR HOUSING (FIRST)

6 DRIVE SHAFT

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B BEARING CARRIER

NI12 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
SIZE IN INCHES:	1/2	3/4	1	1-1/4	1-1/2	1-3/4	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 (NA)

XSD EXTENDED STUDS

SHAFT DESCRIPTIONS

T TOOTH

PB PIGGYBACK PUMP (NA)

W/THD END WITH THREADED END

PORTING DESCRIPTIONS

JIC 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.

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 \* 2100 SERIES \*  
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SERIES IDENTIFICATION

STUD HOLES - 4 AT 39/64 DIAMETER  
 STUD DIA. - 9/16 IN.  
 ONE-PIECE DRIVE SHAFT AND GEAR (INTEGRAL)  
 HOUSING HEIGHT - 5 INCHES  
 HOUSING WIDTH - GEAR SIZE + 3/4 INCH  
 DOWELLED  
**BOLT TORQUE - 160 FT-LBS**

GEAR WIDTHS AVAILABLE

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

SHAFT END COVERS

THE TYPE OF SHAFT END COVER IS DETERMINED BY THE ENTIRE 3 DIGIT DESIGNATION.  
 THERE ARE TWO BASIC TYPES OF SHAFT END COVERS WHICH ARE DIFFERENTIATED BY THE BEARING CONFIGURATION.  
 THIS SERIES IS AVAILABLE BOTH WITH AND WITHOUT OUTBOARD BEARINGS.

TYPE I - WITH SINGLE OUTBOARD BALL BEARING OR WITHOUT.  
 TYPE II - WITHOUT OUTBOARD BEARING.

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>BEARING</u>
ALL CODES BEGINNING WITH	0	XX			XX		I II	
	1		XX		XX		I II	
	2			XX	XX		I II	
	3	XX			XX		I	XX
	4		XX		XX		I	XX
	5			XX	XX		I	XX
	7			XX		XX	I	XX
	8			XX		XX	I II	

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

### DRIVE SHAFTS

C - DENOTES SPECIAL SEPARATE DRIVE SHAFT. (REFER TO CODING ILLUSTRATION ON INTRODUCTORY PAGES). THESE CODES MUST BE USED IN CONJUNCTION WITH SHAFT END COVERS WHICH CONTAIN OUTBOARD BEARINGS. HOWEVER A DIFFERENT SHAFT SEAL IS REQUIRED. SEE DRIVE SHAFT PARTS.

### GEARS

1. CODES MARKED ^ ARE GEAR SETS FOR SINGLE UNIT APPLICATIONS.

### HOUSINGS

1. CODES MARKED ' ARE FOR LOW PRESSURE INLET PORT ONLY.
2. CODES MARKED + ARE GOOD FOR PRESSURES UP TO 2500 PSI. APPLIES TO SMALLEST PORT.
3. JIC PORTS ARE RECOMMENDED FOR USE AT PRESSURES UP TO 2500 PSI. FOR HIGHER PRESSURES CONSULT FACTORY.
4. SPLIT FLANGE PORTS ARE RECOMMENDED FOR PRESSURES ABOVE 2500 PSI. CONSULT FACTORY FOR CORRECT PORTING.

### BEARING CARRIERS

FOR MULTIPLE MOTORS USE A AA BB EE LL MM CODES. DO NOT USE IN PUMPS.

### 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.

PERMCO MODEL: 2100

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>	<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
016	1	574-01293	CW 2100 CHELSEA CLOVERLEAF	594	1	574-01117	DR 6 BOLT RD. 2-5/8"PILOT
031	1	574-00890	CW TYPE I 4 BOLT SAE B	731	1	574-00890-4	DR TYPE I 4 BOLT SAE B
083	1	574-00891	CW TYPE I 2 BOLT SAE A	783	1	574-00891-4	DR TYPE I 2 BOLT SAE A
085	1	574-00898	CW TYPE II 2 BOLT SAE B	786	1	574-00664-4	DR TYPE I 2 BOLT SAE B
086	1	574-00664	CW TYPE I 2 BOLT SAE B	790	1	574-01035-4	DR TYPE I 2 & 4 BOLT SAE B
090	1	574-01035	CW TYPE I 2 & 4 BOLT SAE B	794	1	574-01117-4	DR 6 BOLT RD. 2-5/8"PILOT
094	1	574-01117	CW 6 BOLT RD. 2-5/8"PILOT	831	1	574-00890-4	DR TYPE I 4 BOLT SAE B
116	1	574-01293	CCW 2100 CHELSEA CLOVERLEAF	883	1	574-00891-4	DR TYPE I 2 BOLT SAE A
131	1	574-00890	CCW TYPE I 4 BOLT SAE B	885	1	574-00898-4	DR TYPE II 2 BOLT SAE B
183	1	574-00891	CCW TYPE I 2 BOLT SAE A	886	1	574-00664-4	DR TYPE I 2 BOLT SAE B
185	1	574-00898	CCW TYPE II 2 BOLT SAE B	890	1	574-01035-4	DR TYPE I 2 & 4 BOLT SAE B
186	1	574-00664	CCW TYPE I 2 BOLT SAE B	894	1	574-01117-4	DR 6 BOLT RD. 2-5/8"PILOT
190	1	574-01035	CCW TYPE I 2 & 4 BOLT SAE B				
194	1	574-01117	CCW 6 BOLT RD. 2-5/8"PILOT				
216	1	574-01293	DR 2100 CHELSEA CLOVERLEAF				
231	1	574-00890	DR TYPE I 4 BOLT SAE B				
283	1	574-00891	DR TYPE I 2 BOLT SAE A				
285	1	574-00898	DR TYPE II 2 BOLT SAE B				
286	1	574-00664	DR TYPE I 2 BOLT SAE B				
290	1	574-01035	DR TYPE I 2 & 4 BOLT SAE B				
294	1	574-01117	DR 6 BOLT RD. 2-5/8"PILOT				
331	1	574-00890	CW TYPE I 4 BOLT SAE B				
383	1	574-00891	CW TYPE I 2 BOLT SAE A				
386	1	574-00664	CW TYPE I 2 BOLT SAE B				
390	1	574-01035	CW TYPE I 2 & 4 BOLT SAE B				
394	1	574-01117	CW TYPE I 2 & 4 BOLT SAE B				
431	1	574-00890	CCW TYPE I 4 BOLT SAE B				
483	1	574-00891	CCW TYPE I 2 BOLT SAE A				
486	1	574-00664	CCW TYPE I 2 BOLT SAE B				
490	1	574-01035	CCW TYPE I 2 & 4 BOLT SAE B				
494	1	574-01117	CCW 6 BOLT RD. 2-5/8"PILOT				
531	1	574-00890	DR TYPE I 4 BOLT SAE B				
583	1	574-00891	DR TYPE I 2 BOLT SAE A				
586	1	574-00664	DR TYPE I 2 BOLT SAE B				
590	1	574-01035	DR TYPE I 2 & 4 BOLT SAE B				

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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>
016	1	KA-0558-1XS	RING SEAL	183	1	KA-0558-1XS	RING SEAL
016	1	S-0280	PLUG	183	1	S-0280	PLUG
016	1	W62-26-16	DOUBLE LIP SEAL	183	1	W62-26-16	DOUBLE LIP SEAL
016	2	X-0921	CROWNED ROLLER BRGN	183	2	X-0921	CROWNED ROLLER BRGN
031	1	KA-0558-1XS	RING SEAL	185	1	KA-0558-1XS	RING SEAL
031	1	S-0280	PLUG	185	1	S-0280	PLUG
031	1	W62-26-16	DOUBLE LIP SEAL	185	1	W62-26-16	DOUBLE LIP SEAL
031	2	X-0921	CROWNED ROLLER BRGN	185	2	X-0921	CROWNED ROLLER BRGN
083	1	KA-0558-1XS	RING SEAL	186	1	KA-0558-1XS	RING SEAL
083	1	S-0280	PLUG	186	1	S-0280	PLUG
083	1	W62-26-16	DOUBLE LIP SEAL	186	1	W62-26-16	DOUBLE LIP SEAL
083	2	X-0921	CROWNED ROLLER BRGN	186	2	X-0921	CROWNED ROLLER BRGN
085	1	KA-0558-1XS	RING SEAL	190	1	KA-0558-1XS	RING SEAL
085	1	S-0280	PLUG	190	1	S-0280	PLUG
085	1	W62-26-16	DOUBLE LIP SEAL	190	1	W62-26-16	DOUBLE LIP SEAL
085	2	X-0921	CROWNED ROLLER BRGN	190	2	X-0921	CROWNED ROLLER BRGN
086	1	KA-0558-1XS	RING SEAL	194	1	KA-0558-1XS	RING SEAL
086	1	S-0280	PLUG	194	1	S-0280	PLUG
086	1	W62-26-16	DOUBLE LIP SEAL	194	1	W62-26-16	DOUBLE LIP SEAL
086	2	X-0921	CROWNED ROLLER BRGN	194	2	X-0921	CROWNED ROLLER BRGN
090	1	KA-0558-1XS	RING SEAL	216	1	KA-0558-1XS	RING SEAL
090	1	S-0280	PLUG	216	2	L-0280-K	CHECK VALVE ASSY
090	1	W62-26-16	DOUBLE LIP SEAL	216	1	W62-26-16	DOUBLE LIP SEAL
090	2	X-0921	CROWNED ROLLER BRGN	216	2	X-0921	CROWNED ROLLER BRGN
094	1	KA-0558-1XS	RING SEAL	231	1	KA-0558-1XS	RING SEAL
094	1	S-0280	PLUG	231	2	L-0280-K	CHECK VALVE ASSY
094	1	W62-26-16	DOUBLE LIP SEAL	231	1	W62-26-16	DOUBLE LIP SEAL
094	2	X-0921	CROWNED ROLLER BRGN	231	2	X-0921	CROWNED ROLLER BRGN
116	1	KA-0558-1XS	RING SEAL	283	1	KA-0558-1XS	RING SEAL
116	1	S-0280	PLUG	283	2	L-0280-K	CHECK VALVE ASSY
116	1	W62-26-16	DOUBLE LIP SEAL	283	1	W62-26-16	DOUBLE LIP SEAL
116	2	X-0921	CROWNED ROLLER BRGN	283	2	X-0921	CROWNED ROLLER BRGN
131	1	KA-0558-1XS	RING SEAL	285	1	KA-0558-1XS	RING SEAL
131	1	S-0280	PLUG	285	2	L-0280-K	CHECK VALE ASSY
131	1	W62-26-16	DOUBLE LIP SEAL	285	1	W62-26-16	DOUBLE LIP SEAL
131	2	X-0921	CROWNED ROLLER BRGN	285	2	X-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>
286	1	KA-0558-1XS	RING SEAL	394	1	KA-0558-1XS	RING SEAL
286	2	L-0280-K	CHECK VALVE ASSY	394	1	S-0280	PLUG
286	1	W62-26-16	DOUBLE LIP SEAL	394	1	W023-206	SPIROLOX SNAP RING
286	2	X-0921	CROWNED ROLLER BRGN	394	1	W58-39	BALL BEARING
				394	1	W62-26-16	DOUBLE LIP SEAL
				394	2	X-0921	CROWNED ROLLER BRGN
290	1	KA-0558-1XS	RING SEAL				
290	2	L-0280-K	CHECK VALVE ASSY				
290	1	W62-26-16	DOUBLE LIP SEAL	431	1	KA-0558-1XS	RING SEAL
290	2	X-0921	CROWNED ROLLER BRGN	431	1	S-0280	PLUG
				431	1	W023-206	SPIROLOX SNAP RING
294	1	KA-0558-1XS	RING SEAL	431	1	W58-39	BALL BEARING
294	2	L-0280-K	CHECK VALVE ASSY	431	1	W62-26-16	DOUBLE LIP SEAL
294	1	W62-26-16	DOUBLE LIP SEAL	431	2	X-0921	CROWNED ROLLER BRGN
294	2	X-0921	CROWNED ROLLER BRGN				
				483	1	KA-0558-1XS	RING SEAL
331	1	KA-0558-1XS	RING SEAL	483	1	S-0280	CHECK VALVE ASSY
331	1	S-0280	PLUG	483	1	W023-206	SPIROLOX SNAP RING
331	1	W023-206	SPIROLOX SNAP RING	483	1	W58-39	BALL BEARING
331	1	W58-39	BALL BEARING	483	1	W62-26-16	DOUBLE LIP SEAL
331	1	W62-26-16	DOUBLE LIP SEAL	483	2	X-0921	CROWNED ROLLER BRGN
331	2	X-0921	CROWNED ROLLER BRGN				
				486	1	KA-0558-1XS	RING SEAL
383	1	KA-0558-1XS	RING SEAL	486	1	S-0280	PLUG
383	1	S-0280	PLUG	486	1	W023-206	SPIROLOX SNAP RING
383	1	W023-206	SPIROLOX SNAP RING	486	1	W58-39	BALL BEARING
383	1	W58-39	BALL BEARING	486	1	W62-26-16	DOUBLE LIP SEAL
383	1	W62-26-16	DOUBLE LIP SEAL	486	2	X-0921	CROWNED ROLLER BRGN
383	2	X-0921	CROWNED ROLLER BRGN				
				490	1	KA-0558-1XS	RING SEAL
386	1	KA-0558-1XS	RING SEAL	490	1	S-0280	PLUG
386	1	S-0280	PLUG	490	1	W023-206	SPIROLOX SNAP RING
386	1	W023-206	SPIROLOX SNAP RING	490	1	W58-39	BALL BEARING
386	1	W58-39	BALL BEARING	490	1	W62-26-16	DOUBLE LIP SEAL
386	1	W62-26-16	DOUBLE LIP SEAL	490	2	X-0921	CROWNED ROLLER BRGN
386	2	X-0921	CROWNED ROLLER BRGN				
				494	1	KA-0558-1XS	RING SEAL
390	1	KA-0558-1XS	RING SEAL	494	1	S-0280	PLUG
390	1	S-0280	PLUG	494	1	W023-206	SPIROLOX SNAP RING
390	1	W023-206	SPIROLOX SNAP RING	494	1	W58-39	BALL BEARING
390	1	W58-39	BALL BEARING	494	1	W62-26-16	DOUBLE LIP SEAL
390	1	W62-26-16	DOUBLE LIP SEAL	494	2	X-0921	CROWNED ROLLER BRGN
390	2	X-0921	CROWNED ROLLER BRGN				

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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
531	1	KA-0558-1XS	RING SEAL	783	1	KA-0558-1XS	RING SEAL
531	2	L-0280-K	CHECK VALVE ASSY	783	2	L-0280-K	CHECK VALVE ASSY
531	1	W023-206	SPIROLOX SNAP RING	783	1	W023-206	SPIROLOX SNAP RING
531	1	W58-39	BALL BEARING	783	1	W58-39	BALL BEARING
531	1	W62-26-16	DOUBLE LIP SEAL	783	1	W62-49-9	HP SEAL
531	2	X-0921	CROWNED ROLLER BRGN	783	2	X-0921	CROWNED ROLLER BRGN
				783	1	W0-17	1/4 PIPE PLUG
583	1	KA-0558-1XS	RING SEAL	783	1	ZD-0558	SEAL RETAINER
583	2	L-0280-K	CHECK VALVE ASSY				
583	1	W023-206	SPIROLOX SNAP RING	786	1	KA-0558-1XS	RING SEAL
583	1	W58-39	BALL BEARING	786	2	L-0280-K	CHECK VALVE ASSY
583	1	W62-26-16	DOUBLE LIP SEAL	786	1	W023-206	SPIROLOX SNAP RING
583	2	X-0921	CROWNED ROLLER BRGN	786	1	W58-39	BALL BEARING
				786	1	W62-49-9	HP SEAL
586	1	KA-0558-1XS	RING SEAL	786	2	X-0921	CROWNED ROLLER BRGN
586	2	L-0280-K	CHECK VALVE ASSY	786	1	W0-17	1/4 PIPE PLUG
586	1	W023-206	SPIROLOX SNAP RING	786	1	ZD-0558	SEAL RETAINER
586	1	W58-39	BALL BEARING				
586	1	W62-26-16	HP SEAL	790	1	KA-0558-1XS	RING SEAL
586	2	X-0921	CROWNED ROLLER BRGN	790	2	L-0280-K	CHECK VALVE ASSY
				790	1	W023-206	SPIROLOX SNAP RING
590	1	KA-0558-1XS	RING SEAL	790	1	W58-39	BALL BEARING
590	2	L-0280-K	CHECK VALVE ASSY	790	1	W62-49-9	HP SEAL
590	1	W023-206	SPIROLOX SNAP RING	790	2	X-0921	CROWNED ROLLER BRGN
590	1	W58-39	BALL BEARING	790	1	W0-17	1/4 PIPE PLUG
590	1	W62-26-16	HP SEAL	790	1	ZD-0558	SEAL RETAINER
590	2	X-0921	CROWNED ROLLER BRGN				
				794	1	KA-0558-1XS	RING SEAL
594	1	KA-0558-1XS	RING SEAL	794	2	L-0280-K	CHECK VALVE ASSY
594	2	L-0280-K	CHECK VALVE ASSY	794	1	W023-206	SPIROLOX SNAP RING
594	1	W023-206	SPIROLOX SNAP RING	794	1	W58-39	BALL BEARING
594	1	W58-39	BALL BEARING	794	1	W62-49-9	HP SEAL
594	1	W62-26-16	HP SEAL	794	2	X-0921	CROWNED ROLLER BRGN
594	2	X-0921	CROWNED ROLLER BRGN	794	1	W0-17	1/4 PIPE PLUG
				794	1	ZD-0558	SEAL RETAINER
731	1	KA-0558-1XS	RING SEAL				
731	2	L-0280-K	CHECK VALVE ASSY	831	1	KA-0558-1XS	RING SEAL
731	1	W023-206	SPIROLOX SNAP RING	831	2	L-0280-K	CHECK VALVE ASSY
731	1	W58-39	BALL BEARING	831	1	W023-206	SPIROLOX SNAP RING
731	1	W62-49-9	HP SEAL	831	1	400-00682	BEARING SPACER
731	2	X-0921	CROWNED ROLLER BRGN	831	1	W62-49-9	HP SEAL
731	1	W0-17	1/4 PIPE PLUG	831	2	X-0921	CROWNED ROLLER BRGN
731	1	ZD-0558	SEAL RETAINER	831	1	W0-17	1/4 PIPE PLUG

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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>
883	1	KA-0558-1XS	RING SEAL	894	1	KA-0558-1XS	RING SEAL
883	2	L-0280-K	CHECK VALVE ASSY	894	2	L-0280-K	CHECK VALVE ASSY
883	1	W023-206	SPIROLOX SNAP RING	894	1	W023-206	SPIROLOX SNAP RING
883	1	400-00682	BEARING SPACER	894	1	400-00682	BEARING SPACER
883	1	W62-49-9	HP SEAL	894	1	W62-49-9	HP SEAL
883	2	X-0921	CROWNED ROLLER BRGN	894	2	X-0921	CROWNED ROLLER BRGN
883	1	W0-17	1/4 PIPE PLUG	894	1	W0-17	1/4 PIPE PLUG
885	1	KA-0558-1XS	RING SEAL				
885	2	L-0280-K	CHECK VALVE ASSY				
885	1	W023-206	SPIROLOX SNAP RING				
885	1	558-00498-SR	SEAL RETAINER, TYPE II MOTOR				
885	1	W62-49-9	HP SEAL				
885	2	X-0921	CROWNED ROLLER BRGN				
885	1	W0-17	1/4 PIPE PLUG				
886	1	KA-0558-1XS	RING SEAL				
886	2	L-0280-K	CHECK VALVE ASSY				
886	1	W023-206	SPIROLOX SNAP RING				
886	1	400-00682	BEARING SPACER				
886	1	W62-49-9	HP SEAL				
886	2	X-0921	CROWNED ROLLER BRGN				
886	1	W0-17	1/4 PIPE PLUG				
890	1	KA-0558-1XS	RING SEAL				
890	2	L-0280-K	CHECK VALVE ASSY				
890	1	W023-206	SPIROLOX SNAP RING				
890	1	400-00682	BEARING SPACER				
890	1	W62-49-9	HP SEAL				
890	2	X-0921	CROWNED ROLLER BRGN				
890	1	W0-17	1/4 PIPE PLUG				

PERMCO MODEL: 2100

Port End Covers

CODE	QTY	PART NUMBER	DESCRIPTION	CODE	QTY	PART NUMBER	DESCRIPTION
AD	1	592-00662	BLANK & BLANK SINGLE	JH	1	592-00662-1	3/4 NPT & BLANK MULT
AH	1	592-00662	BLANK & BLANK MULT	JX	1	592-00662-1	3/4 NPT & BLANK MULT XSD
AX	1	592-00662	BLANK & BLANK MULT XSD	KD	1	592-00662-21	BLANK & 3/4 NPT SINGLE
BD	1	592-00662-57	3/4 JIC & BLANK SINGLE	KF	1	592-01080-9	1 NPT & 1-1/4 NPT SINGLE
BH	1	592-00662-57	3/4 JIC & BLANK MULT	KG	1	592-01080-9	1 NPT & 1-1/4 NPT MULT
BX	1	592-00662-57	3/4 JIC & BLANK MULT XSD	KH	1	592-00662-21	BLANK & 3/4 NPT MULT
CA	1	592-01080-60	1-1/4 JIC & BLANK SINGLE	KI	1	592-01080-9	1 NPT & 1-1/4 NPT MULT XSD
CB	1	592-01080-60	1-1/4 JIC & BLANK MULT	KP	1	592-01080-32	1-1/4 JIC & 3/4 JIC SINGLE
CC	1	592-01080-60	1-1/4 JIC & BLANK MULT XSD	KQ	1	592-01080-32	1-1/4 JIC & 3/4 JIC MULT
CD	1	592-00662-79	BLANK & 3/4 JIC SINGLE	KR	1	592-01080-32	1-1/4 JIC & 3/4 JIC MULT XSD
CH	1	592-00662-79	BLANK & 3/4 JIC MULT	KX	1	592-00662-21	BLANK & 3/4 NPT MULT XSD
CX	1	592-00662-79	BLANK & 3/4 JIC MULT XSD	LD	1	592-00662-2	3/4 NPT & 3/4 NPT SINGLE
DA	1	592-01080-60	BLANK & 1-1/4 JIC SINGLE	LH	1	592-00662-2	3/4 NPT & 3/4 NPT MULT
DB	1	592-01080-60	BLANK & 1-1/4 JIC MULT	LP	1	592-01080-65	1-1/4 JIC & 7/8 JIC SINGLE
DC	1	592-01080-60	BLANK & 1-1/4 JIC MULT XSD	LQ	1	592-01080-65	1-1/4 JIC & 7/8 JIC MULT
ED	1	592-00662-58	3/4 JIC & 3/4 JIC SINGLE	LR	1	592-01080-65	1-1/4 JIC & 7/8 JIC MULT XSD
EH	1	592-00662-58	3/4 JIC & 3/4 JIC MULT	LX	1	592-00662-2	3/4 NPT & 3/4 NPT MULT XSD
EX	1	592-00662-58	3/4 JIC & 3/4 JIC MULT XSD	MD	1	592-00662-3	1 NPT & 1 NPT SINGLE
FD	1	592-00662-303	1 JIC & 3/4 JIC SINGLE	ME	1	592-01080-5	1-1/4 NPT & 3/4 NPT SINGLE
FF	1	592-00662-304	3/4 NPT & 1 NPT-REAR SINGLE	MF	1	592-01080-5	1-1/4 NPT & 3/4 NPT MULT
FG	1	592-00662-304	3/4 NPT & 1 NPT-REAR MULT	MG	1	592-01080-5	1-1/4 NPT & 3/4 NPT XSD
FH	1	592-00662-303	1 JIC & 3/4 JIC MULT	MH	1	592-00662-3	1 NPT & 1 NPT MULT
FI	1	592-00662-304	3/4 NPT & 1 NPT-REAR XSD	MM	1	592-01080-63	1-1/4 JIC & 1 JIC SINGLE
FX	1	592-00662-303	1 JIC & 3/4 JIC MULT XSD	MN	1	592-01080-63	1-1/4 JIC & 1 JIC MULT
GD	1	592-00662-302	3/4 JIC & 1 JIC SINGLE	MO	1	592-01080-63	1-1/4 JIC & 1 JIC MULT XSD
GF	1	592-01080-5	3/4 NPT & 1-1/4 NPT SINGLE	MX	1	592-00662-3	1 NPT & 1 NPT MULT XSD
GG	1	592-01080-5	3/4 NPT & 1-1/4 NPT MULT	NF	1	592-01080-9	1-1/4 NPT & 1 NPT SINGLE
GH	1	592-00662-302	3/4 JIC & 1 JIC MULT	NG	1	592-01080-9	1-1/4 NPT & 1 NPT SINGLE
GI	1	592-01080-5	3/4 NPT & 1-1/4 NPT MULT XSD	NH	1	592-01080-9	1-1/4 NPT & 1 NPT MULT XSD
GX	1	592-00662-302	3/4 JIC & 1 JIC MULT XSD	VF	1	592-00662-16	1 NPT & BLANK SINGLE
HM	1	592-01080-63	1 JIC & 1-1/4 JIC SINGLE	VG	1	592-00662-16	1 NPT REAR & BLANK MULT
HN	1	592-01080-63	1 JIC & 1-1/4 JIC MULT	VH	1	592-00662-16	1 NPT REAR & BLANK MULT XSD
HO	1	592-01080-63	1 JIC & 1-1/4 JIC MULT XSD	VM	1	592-01080-32	3/4 JIC & 1-1/4 JIC SINGLE
ID	1	592-00662-301	1 JIC & 1 JIC SINGLE	VN	1	592-01080-32	3/4 JIC & 1-1/4 JIC MULT
IF	1	592-00662-305	1 NPT & 3/4 NPT-REAR SINGLE	VO	1	592-01080-32	3/4 JIC & 1-1/4 JIC MULT XSD
IG	1	592-00662-305	1 NPT & 3/4 NPT-REAR MULT	WF	1	592-00662-16	BLANK REAR & 1NPT SINGLE
IH	1	592-00662-301	1 JIC & 1 JIC MULT	WG	1	592-00662-16	BLANK REAR & 1NPT MULT
II	1	592-00662-305	1 NPT & 3/4 NPT-REAR MULT XSD	WH	1	592-00662-16	BLANK REAR & 1NPT MULT XSD
IX	1	592-00662-301	1 JIC & 1 JIC MULT XSD	XF	1	592-01080-20	1-1/4 NPT & BLANK SINGLE
JD	1	592-00662-1	3/4 NPT & BLANK SINGLE	XG	1	592-01080-20	1-1/4 NPT & BLANK MULT

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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>
XH	1	592-01080-20	1-1/4 NPT & BLANK MULT XSD
YF	1	592-01080-20	BLANK & 1-1/4 NPT SINGLE
YG	1	592-01080-20	BLANK & 1-1/4 NPT MULT
YH	1	592-01080-20	BLANK & 1-1/4 NPT MULT XSD

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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>	<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
	1	KA-0558-1XS	RING SEAL	HO	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
CA	2	KA-0558-1XS	RING SEAL	KF	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
CB	2	KA-0558-1XS	RING SEAL	KG	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
CC	2	KA-0558-1XS	RING SEAL	KI	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
DA	2	KA-0558-1XS	RING SEAL	KP	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
DB	2	KA-0558-1XS	RING SEAL	KQ	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
DC	2	KA-0558-1XS	RING SEAL	KR	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
GF	2	KA-0558-1XS	RING SEAL	LP	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
GG	2	KA-0558-1XS	RING SEAL	LQ	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
GI	2	KA-0558-1XS	RING SEAL	LR	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
HM	2	KA-0558-1XS	RING SEAL	ME	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
HN	2	KA-0558-1XS	RING SEAL	MF	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG

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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>	<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
MG	2	KA-0558-1XS	RING SEAL	XH	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
MM	2	KA-0558-1XS	RING SEAL	YF	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
MN	2	KA-0558-1XS	RING SEAL	YG	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
MO	2	KA-0558-1XS	RING SEAL	YH	2	KA-0558-1XS	RING SEAL
	2	X-0921	CROWNED ROLLER BRNG		2	X-0921	CROWNED ROLLER BRNG
	1	Z-1967-45-2	PERMCO NAME TAG		1	Z-1967-45-2	PERMCO NAME TAG
NF	2	KA-0558-1XS	RING SEAL				
	2	X-0921	CROWNED ROLLER BRNG				
	1	Z-1967-45-2	PERMCO NAME TAG				
NG	2	KA-0558-1XS	RING SEAL				
	2	X-0921	CROWNED ROLLER BRNG				
	1	Z-1967-45-2	PERMCO NAME TAG				
NH	2	KA-0558-1XS	RING SEAL				
	2	X-0921	CROWNED ROLLER BRNG				
	1	Z-1967-45-2	PERMCO NAME TAG				
VM	2	KA-0558-1XS	RING SEAL				
	2	X-0921	CROWNED ROLLER BRNG				
	1	Z-1967-45-2	PERMCO NAME TAG				
VN	2	KA-0558-1XS	RING SEAL				
	2	X-0921	CROWNED ROLLER BRNG				
	1	Z-1967-45-2	PERMCO NAME TAG				
VO	2	KA-0558-1XS	RING SEAL				
	2	X-0921	CROWNED ROLLER BRNG				
	1	Z-1967-45-2	PERMCO NAME TAG				
XF	2	KA-0558-1XS	RING SEAL				
	2	X-0921	CROWNED ROLLER BRNG				
	1	Z-1967-45-2	PERMCO NAME TAG				
XG	2	KA-0558-1XS	RING SEAL				
	2	X-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
DB10	+	1 577-00661-10-57	3/4 JIC & BLANK	HB15	1	577-00661-15-1	3/4 NPT & BLANK
DB12		1 577-00661-12-57	3/4 JIC & BLANK	HB17	1	577-00661-17-1	3/4 NPT & BLANK
DB15		1 577-00661-15-57	3/4 JIC & BLANK	HB20	1	577-00661-20-1	3/4 NPT & BLANK
DB17		1 577-00661-17-57	3/4 JIC & BLANK	HC10	1	577-00661-10-1	BLANK & 3/4 NPT
DB20		1 577-00661-20-57	3/4 JIC & BLANK	HC12	1	577-00661-12-1	BLANK & 3/4 NPT
DB25		1 577-00661-25-57	3/4 JIC & BLANK	HC15	1	577-00661-15-1	BLANK & 3/4 NPT
DC10	+	1 577-00661-10-57	BLANK & 3/4 JIC	HC17	1	577-00661-17-1	BLANK & 3/4 NPT
DC12		1 577-00661-12-57	BLANK & 3/4 JIC	HC20	1	577-00661-20-1	BLANK & 3/4 NPT
DC15		1 577-00661-15-57	BLANK & 3/4 JIC	HE10	1	577-00661-10-2	3/4 NPT & 3/4 NPT
DC17		1 577-00661-17-57	BLANK & 3/4 JIC	HE12	1	577-00661-12-2	3/4 NPT & 3/4 NPT
DC20		1 577-00661-20-57	BLANK & 3/4 JIC	HE15	1	577-00661-15-2	3/4 NPT & 3/4 NPT
DC25		1 577-00661-25-57	BLANK & 3/4 JIC	HE17	1	577-00661-17-2	3/4 NPT & 3/4 NPT
DE10	+	1 577-00661-10-58	3/4 JIC & 3/4 JIC	HE20	1	577-00661-20-2	3/4 NPT & 3/4 NPT
DE12		1 577-00661-12-58	3/4 JIC & 3/4 JIC	HE25	1	577-00661-25-2	3/4 NPT & 3/4 NPT
DE15		1 577-00661-15-58	3/4 JIC & 3/4 JIC	HF10	1	577-00661-10-3	3/4 NPT & 1 NPT
DE17		1 577-00661-17-58	3/4 JIC & 3/4 JIC	HF12	1	577-00661-12-3	3/4 NPT & 1 NPT
DE20		1 577-00661-20-58	3/4 JIC & 3/4 JIC	HF15	1	577-00661-15-3	3/4 NPT & 1 NPT
DE25		1 577-00661-25-58	3/4 JIC & 3/4 JIC	HF17	1	577-00661-17-3	3/4 NPT & 1 NPT
DF10	+	1 577-00661-10-71	3/4 JIC & 1 JIC	HF20	1	577-00661-20-3	3/4 NPT & 1 NPT
DF12		1 577-00661-12-71	3/4 JIC & 1 JIC	HI10	1	577-00661-10-3	1 NPT & 3/4 NPT
DF15		1 577-00661-15-71	3/4 JIC & 1 JIC	HI12	1	577-00661-12-3	1 NPT & 3/4 NPT
DF17		1 577-00661-17-71	3/4 JIC & 1 JIC	HI15	1	577-00661-15-3	1 NPT & 3/4 NPT
DF20		1 577-00661-20-71	3/4 JIC & 1 JIC	HI17	1	577-00661-17-3	1 NPT & 3/4 NPT
DF25		1 577-00661-25-71	3/4 JIC & 1 JIC	HI20	1	577-00661-20-3	1 NPT & 3/4 NPT
DG15		1 577-00661-15-73	3/4 JIC & 1 1/4 JIC	HK07	1	577-00661-07-14	1/2 NPT & BLANK
DG17		1 577-00661-17-73	3/4 JIC & 1 1/4 JIC	HK10	1	577-00661-10-14	1/2 NPT & BLANK
DI10	+	1 577-00661-10-71	1 JIC & 3/4 JIC	HL07	1	577-00661-07-14	BLANK & 1/2 NPT
DI12		1 577-00661-12-71	1 JIC & 3/4 JIC	HL10	1	577-00661-10-14	BLANK & 1/2 NPT
DI15		1 577-00661-15-71	1 JIC & 3/4 JIC	HQ07	1	577-00661-07-9	1/2 NPT & 1/2 NPT
DI17		1 577-00661-17-71	1 JIC & 3/4 JIC	HM25	1	577-00661-25-76	3/4 JIC & 1 1/2 JIC
DI20		1 577-00661-20-71	1 JIC & 3/4 JIC	HO25	1	577-00661-25-76	1-1/2 JIC & 3/4 JIC
DI25		1 577-00661-25-71	1 JIC & 3/4 JIC	HZ15	1	577-00661-15-7	1 1/4 NPT & BLANK
DJ15		1 577-00661-15-73	1 1/4 JIC & 3/4 JIC	HZ17	1	577-00661-17-7	1 1/4 NPT & BLANK
DJ17		1 577-00661-17-73	1 1/4 JIC & 3/4 JIC	HZ20	1	577-00661-20-7	1 1/4 NPT & BLANK
HA15		1 577-00661-15-7	BLANK & 1 1/4 NPT	HZ25	1	577-00661-25-7	1 1/4 NPT & BLANK
HA17		1 577-00661-17-7	BLANK & 1 1/4 NPT	XA20	1	577-00661-20-17	BLANK & 1 1/2 NPT
HA20		1 577-00661-20-7	BLANK & 1 1/4 NPT	XA25	1	577-00661-25-17	BLANK & 1 1/2 NPT
HA25		1 577-00661-25-7	BLANK & 1 1/4 NPT	XB10	1	577-00661-10-4	1 NPT & BLANK
HB10		1 577-00661-10-1	3/4 NPT & BLANK	XB12	1	577-00661-12-4	1 NPT & BLANK
HB12		1 577-00661-12-1	3/4 NPT & BLANK	XB15	1	577-00661-15-4	1 NPT & BLANK

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Housings

CODE	QTY	PART NUMBER	DESCRIPTION		CODE	QTY	PART NUMBER	DESCRIPTION	
XB17	1	577-00661-17-4	1 NPT	& BLANK	ZB12	+	1 577-00661-12-63	1 JIC	& BLANK
XB20	1	577-00661-20-4	1 NPT	& BLANK	ZB15	1	577-00661-15-63	1 JIC	& BLANK
XC10	1	577-00661-10-4	BLANK	& 1 NPT	ZB17	1	577-00661-17-63	1 JIC	& BLANK
XC12	1	577-00661-12-4	BLANK	& 1 NPT	ZB20	1	577-00661-20-63	1 JIC	& BLANK
XC15	1	577-00661-15-4	BLANK	& 1 NPT	ZB25	1	577-00661-25-63	1 JIC	& BLANK
XC17	1	577-00661-17-4	BLANK	& 1 NPT	ZC10	'	1 577-00661-10-63	BLANK	& 1 JIC
XC20	1	577-00661-20-4	BLANK	& 1 NPT	ZC12	+	1 577-00661-12-63	BLANK	& 1 JIC
XE10	1	577-00661-10-5	1 NPT	& 1 NPT	ZC15	1	577-00661-15-63	BLANK	& 1 JIC
XE12	1	577-00661-12-5	1 NPT	& 1 NPT	ZC17	1	577-00661-17-63	BLANK	& 1 JIC
XE15	1	577-00661-15-5	1 NPT	& 1 NPT	ZC20	1	577-00661-20-63	BLANK	& 1 JIC
XE17	1	577-00661-17-5	1 NPT	& 1 NPT	ZC25	1	577-00661-25-63	BLANK	& 1 JIC
XE20	1	577-00661-20-5	1 NPT	& 1 NPT	ZD17	'	1 577-00661-17-69	1-1/2 JIC	& BLANK
XE25	1	577-00661-25-5	1 NPT	& 1 NPT	ZD20	+	1 577-00661-20-69	1 1/2 JIC	& BLANK
XF15	'	1 577-00661-15-6	1 NPT	& 1 1/4 NPT	ZD25	+	1 577-00661-25-69	1 1/2 JIC	& BLANK
XF17	1	577-00661-17-6	1 NPT	& 1 1/4 NPT	ZE15	+	1 577-00661-15-64	1 JIC	& 1 JIC
XF20	1	577-00661-20-6	1 NPT	& 1 1/4 NPT	ZE17	1	577-00661-17-64	1 JIC	& 1 JIC
XF25	1	577-00661-25-6	1 NPT	& 1 1/4 NPT	ZE20	1	577-00661-20-64	1 JIC	& 1 JIC
XI15	'	1 577-00661-15-6	1 1/4 NPT	& 1 NPT	ZE25	1	577-00661-25-64	1 JIC	& 1 JIC
XI17	1	577-00661-17-6	1 1/4 NPT	& 1 NPT	ZF15	'	1 577-00661-15-65	1 JIC	& 1 1/4 JIC
XI20	1	577-00661-20-6	1 1/4 NPT	& 1 NPT	ZF17	'	1 577-00661-17-65	1 JIC	& 1 1/4 JIC
XI25	1	577-00661-25-6	1 1/4 NPT	& 1 NPT	ZF20	1	577-00661-20-65	1 JIC	& 1 1/4 JIC
XK15	1	577-00661-15-8	1 1/4 NPT	& 1 1/4 NPT	ZF25	1	577-00661-25-65	1 JIC	& 1 1/4 JIC
XK17	1	577-00661-17-8	1 1/4 NPT	& 1 1/4 NPT	ZG17	'	1 577-00661-17-74	1 JIC	& 1 1/2 JIC
XK20	1	577-00661-20-8	1 1/4 NPT	& 1 1/4 NPT	ZG20	'	1 577-00661-20-74	1 JIC	& 1 1/2 JIC
XK25	1	577-00661-25-8	1 1/4 NPT	& 1 1/4 NPT	ZG25	'	1 577-00661-25-74	1 JIC	& 1 1/2 JIC
XL20	'	1 577-00661-20-12	1 1/4 NPT	& 1 1/2 NPT	ZI15	'	1 577-00661-15-65	1 1/4 JIC	& 1 JIC
XL25	'	1 577-00661-25-12	1 1/4 NPT	& 1 1/2 NPT	ZI17	'	1 577-00661-17-65	1 1/4 JIC	& 1 JIC
XO20	'	1 577-00661-20-12	1 1/2 NPT	& 1 1/4 NPT	ZI20	1	577-00661-20-65	1 1/4 JIC	& 1 JIC
XO25	'	1 577-00661-25-12	1 1/2 NPT	& 1 1/4 NPT	ZI25	1	577-00661-25-65	1 1/4 JIC	& 1 JIC
XZ20	'	1 577-00661-20-17	1 1/2 NPT	& BLANK	ZJ17	'	1 577-00661-17-74	1 1/2 JIC	& 1 JIC
XZ25	'	1 577-00661-25-17	1 1/2 NPT	& BLANK	ZJ20	'	1 577-00661-20-74	1 1/2 JIC	& 1 JIC
ZA05	1	577-00661-05	BLANK	& BLANK	ZJ25	'	1 577-00661-25-74	1 1/2 JIC	& 1 JIC
ZA07	1	577-00661-07	BLANK	& BLANK	ZK17	+	1 577-00661-17-67	1 1/4 JIC	& 1 1/4 JIC
ZA10	1	577-00661-10	BLANK	& BLANK	ZK20	1	577-00661-20-67	1-1/4 JIC	& 1-1/4 JIC
ZA12	1	577-00661-12	BLANK	& BLANK	ZK25	1	577-00661-25-67	1-1/4 JIC	& 1-1/4 JIC
ZA15	1	577-00661-15	BLANK	& BLANK	ZK25	1	577-00661-25-67	1-1/4 JIC	& 1-1/4 JIC
ZA17	1	577-00661-17	BLANK	& BLANK	ZL17	+	1 577-00661-17-68	1-1/4 JIC	& 1-1/2 JIC
ZA20	1	577-00661-20	BLANK	& BLANK	ZL20	'	1 577-00661-20-68	1 1/4 JIC	& 1 1/2 JIC
ZA25	1	577-00661-25	BLANK	& BLANK	ZL25	'	1 577-00661-25-68	1 1/4 JIC	& 1 1/2 JIC
ZB10	'	1 577-00661-10-63	1 JIC	& BLANK	ZN15	'	1 577-00661-15-66	BLANK	& 1 1/4 JIC

**PERMCO MODEL: 2100      Housings**

<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>
ZN17	' 1	577-00661-17-66	BLANK & 1 1/4 JIC				
ZN20	1	577-00661-20-66	BLANK & 1-1/4 JIC				
ZO17	' + 1	577-00661-17-68	1-1/2 JIC & 1-1/4 JIC				
ZO20	' 1	577-00661-20-68	1 1/2 JIC & 1 1/4 JIC				
ZO25	' 1	577-00661-25-68	1 1/2 JIC & 1 1/4 JIC				
ZT17	' 1	577-00661-17-69	BLANK & 1-1/2 JIC				
ZT20	+ 1	577-00661-20-69	BLANK & 1 1/2 JIC				
ZT25	+ 1	577-00661-25-69	BLANK & 1 1/2 JIC				
ZW07	1	577-00661-07-61	1/2 JIC & 1/2 JIC				
ZW10	1	577-00661-10-61	1/2 JIC & 1/2 JIC				
ZX07	1	577-00661-07-60	BLANK & 1/2 JIC				
ZX10	1	577-00661-10-60	BLANK & 1/2 JIC				
ZY07	1	577-00661-07-60	1/2 JIC & BLANK				
ZY10	1	577-00661-10-60	1/2 JIC & BLANK				
ZZ15	' 1	577-00661-15-66	1 1/4 JIC & BLANK				
ZZ17	' 1	577-00661-17-66	1 1/4 JIC & BLANK				
ZZ20	1	577-00661-20-66	1-1/4 JIC & BLANK				

PERMCO MODEL: 2100

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>
	4	280-1971-032	DOWEL PIN
	2	K-2995-240	SQUARE GASKET SEAL
	2	ZZ-0947-TC	TEFLON THRUST PLATE

PERMCO MODEL: 2100

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	U-0996L-05	1/2 GEAR SET
07	1	U-0996L-07	3/4 GEAR SET
10	1	U-0996L-10	1 GEAR SET
12	1	U-0996L-12	1 1/4 GEAR SET
15	1	U-0996L-15	1 1/2 GEAR SET
17	1	U-0996L-17	1 3/4 GEAR SET
20	1	U-0996L-20	2 GEAR SET
25	1	U-0996L-25	2-1/2 GEAR SET

PERMCO MODEL: 2100

DRIVE SHAFTS OR GEAR/SHAFTS

CODE	QTY	PART NUMBER	DESCRIPTION	CODE	QTY	PART NUMBER	DESCRIPTION
14	^	1 AC-0024L-1-05	21/3000 G/SH SET T1 B SPL 1/2	54	^	1 AC-0024L-2-07	21/3000 G/SH S T2 B SPLN 3/4
14	^	1 AC-0024L-1-07	21/3000 G/SH SET T1 B SPL 1/2	54	^	1 AC-0024L-2-10	21/3000 G/SH S T2 B SPLN 1
14	^	1 AC-0024L-1-10	21/3000 G/SH SET T1 B SPLN SIN	54	^	1 AC-0024L-2-12	21/3000 G/SH S T2 B SPLN 1-1/4
14	^	1 AC-0024L-1-12	21/3000 G/SH SET T1 B SPLN SIN	54	^	1 AC-0024L-2-15	21/3000 G/SH S T2 B SPLN 1-1/2
14	^	1 AC-0024L-1-15	21/3000 G/SH SET T1 B SPLN SIN	54	^	1 AC-0024L-2-17	21/3000 G/SH S T2 B SPLN 1-3/4
14	^	1 AC-0024L-1-17	21/3000 G/SH SET T1 B SPLN SIN	54	^	1 AC-0024L-2-20	21/3000 G/SH S T2 B SPLN
14	^	1 AC-0024L-1-20	21/3000 G/SH SET T1 B SPLN SIN	54	*	1 AC-0024L-4-10	21/3000 G/SH S T2 B SPLN 1
14		1 AC-0024L-3-05	21/3000 G/SH S T1 B SPLN 1/2	54	*	1 AC-0024L-4-15	21/3000 G/SH S T2 B SPLN 1-1/2
14		1 AC-0024L-3-07	21/3000 G/SH S T1 B SPLN 3/4	54	*	1 AC-0024L-4-17	21/3000 G/SH S T2 B SPLN 1-3/4
14		1 AC-0024L-3-10	TYPE I 13T SPLINE SAE B	54	*	1 AC-0024L-4-20	21/3000 G/SH S T2 B SPLN 2
14		1 AC-0024L-3-12	TYPE I 13T SPLINE SAE B	55	^	1 CC-0024L-2-17	3000 TYPE II 7/8 KEYED 1-3/4
14		1 AC-0024L-3-15	TYPE I 13T SPLINE SAE B	55		1 CC-0024L-4-10	TYPE II KEYED SAE B
14		1 AC-0024L-3-17	TYPE I 13T SPLINE SAE B	55	*	1 CC-0024L-4-12	TYPE II KEYED SAE B
14		1 AC-0024L-3-20	TYPE I 13T SPLINE SAE B	56	*	1 DC-0024L-4-17	TYPE II KEYED
14~	^	1 AC-0024L-13-25	TYPE I 13T SPLINE SAE B/SINGLE	57	*	1 BC-0024L-3-15	OBSOLETE
22	^	1 024-00344-HFS	2-1/2 G/SH FISH PUMP 1 KEYED	57	*	1 BC-0024L-3-17	3000 GEAR/SHAFT SET 1-3/4
29	^	1 CC-0024L-1-07	3000 G/S 3/4 SINGLE	84	^	1 ZF-0024L-1-10	3000 G/S 9 TOOTH 5/8 DIA
29		1 CC-0024L-1-15	TYPE I KEYED SAE B	87		1 ZT-0024L-1-15	TYPE I 15T SPLINE SAE BB
29		1 CC-0024L-3-07	TYPE I KEYED SAE B	87		1 ZT-0024L-1-17	TYPE I 15T SPLINE SAE BB
29		1 CC-0024L-3-10	TYPE I KEYED SAE B	87		1 ZT-0024L-1-20	TYPE I 15T SPLINE SAE BB
29		1 CC-0024L-3-12	TYPE I KEYED SAE B	87		1 ZT-0024L-3-15	TYPE I 15T SPLINE SAE BB
29		1 CC-0024L-3-15	TYPE I KEYED SAE B	87		1 ZT-0024L-3-17	TYPE I 15T SPLINE SAE
29		1 CC-0024L-3-17	TYPE I KEYED SAE B	87		1 ZT-0024L-3-20	TYPE I 15T SPLINE SAE BB
29		1 CC-0024L-3-20	TYPE I KEYED SAE B	89	^	1 GD-0024L-1-10	3000 .875 DIA 5/8 MALE THRD
29		1 CC-0024L-1-25	TYPE I KEYED SAE B	89	^	1 GD-0024L-1-12	3000 GEAR/SHAFT SET 1-1/4
32		1 DC-0024L-1-17	TYPE I KEYED	89	^	1 GD-0024L-1-15	3000 GEAR/SHAFT SET 1-1/2
32	^	1 DC-0024L-1-20	3000 G/SH 1 KEYED	89	*	1 GD-0024L-3-12	KEYED W/ THREADED END
32		1 DC-0024L-3-07	TYPE I KEYED	89	*	1 GD-0024L-3-15	KEYED W/ TREADED END
32		1 DC-0024L-3-10	TYPE I KEYED				
32		1 DC-0024L-3-12	TYPE I KEYED				
32		1 DC-0024L-3-15	TYPE I KEYED				
32		1 DC-0024L-3-17	TYPE I KEYED				
32		1 DC-0024L-3-20	TYPE I KEYED				
32		1 DC-0024L-1-25	TYPE I KEYED				
54	^	1 AC-0024L-2-05	21/3000 G/SH S T2 B SPLN 1/2				

PERMCO MODEL: 2100

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>
C 6	1	ZG-0024	3000 1-1/4 DIA 14T SPLINE				
C00	1	ZQ-0024	3000 1-1/4 DIA. KEYED				
C02	* 1	ZM-0024-1	3000 SHAFT TH'D & KEYED				
C04 / C89	1	ZW-0024	3000 7/8 DIA KEYED W/THD END				
C14	1	ZI-0024	3000 7/8 DIA 13T SPLINE				
C19	1	023-00979	3000 SFT 11T SPLN 1.49 SFT EXT				
C20	1	024-00740	3000 TAPERD W/THREADS				
C21	1	ZP-0024	3000 7/8 DIA TAPERED KEYED				
C22	1	024-00409-HF	CONT.SHAFT FISH PUMP 1 KEYED				
C24	1	ZU-0024	3000 3/4 DIA. KEYED				
C29	1	ZJ-0024	3000 7/8 DIA. KEYED				
C29XL	1	ZJ-0024-XL	3000 7/8 DIA. KEYED EX. LONG				
C32	1	DC-0024	3000 1 DIA KEYED				
C32XL	1	DC-0024-XL	3000 1 DIA KEYED EX. LONG				
C57	1	BC-0024	3000 1 DIA. 6T SPLINE				
C84	1	ZH-0024	3000 5/8 DIA. 9T SPLINE				
C85	1	024-00835	3000 DR SHFT 5/8 KEYED				
C87	1	ZT-0024	3000 1 DIA. 15T SPLINE				
SPL	* 1	C-810135	3000 SHAFT 11 TOOTH				

PERMCO MODEL: 2100

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
29	1	W09-06	1/4 X 3/8 X 1 KEY	C21	1	SA-0558	3000 SPACER
				C21	1	W09-505	KEY, WOODRUFF 505
32	1	W09-02	1/4 X 3/8 X 1-1/4 KEY	C21	1	W62-26-18	PUMP SEAL
				C21	1	W62-49-11	MOTOR SEAL
55	1	W09-06	1/4 X 3/8 X 1 KEY	C21	1	W86-100	SNAP RING
				C21	1	ZD-0558	SEAL RETAINER
C 6	1	SA-0558	SPACER				
C 6	1	W62-26-18	PUMP SEAL	C22	1	SA-0558	SPACER
C 6	1	W62-49-11	MOTOR SEAL	C22	1	W09-01	KEY, 1/4 X 3/8 X 1-3/4
C 6	1	W86-100	RETAINER RING	C22	1	W62-26-18	PUMP SEAL
C 6	1	ZD-0558	SEAL RETAINER	C22	1	W62-49-11	MOTOR SEAL
				C22	1	W86-100	RETAINER RING
				C22	1	ZD-0558	SEAL RETAINER
C00	1	SA-0558	SPACER				
C00	1	W09-27	KEY, 5/16 X 15/32 X 1-1/2				
C00	1	W62-26-18	PUMP SEAL	C24	1	SA-0558	SPACER
C00	1	W62-49-11	MOTOR SEAL	C24	1	W09-59	KEY, 3/16 X 3/16 X 1-9/16
C00	1	W86-100	RETAINER RING	C24	1	W62-26-18	PUMP SEAL
C00	1	ZD-0558	SEAL RETAINER	C24	1	W62-49-11	MOTOR SEAL
				C24	1	W86-100	SNAP RING
				C24	1	ZD-0558	SEAL RETAINER
C04	1	SA-0558	SPACER				
C04	1	W09-38	KEY, 1-1/1 X 3/8 X 7/8				
C04	1	W62-26-18	PUMP SEAL	C29	1	SA-0558	SPACER
C04	1	W62-49-11	MOTOR SEAL	C29	1	W09-06	KEY, 1/4 X 3/8 X 1
C04	1	W86-100	RETAINER RING	C29	1	W62-26-18	PUMP SEAL
C04	1	ZD-0558	SEAL RETAINER	C29	1	W62-49-11	MOTOR SEAL
				C29	1	W86-100	SNAP RIN
				C29	1	ZD-0558	SEAL RETAINER
C14	1	SA-0558	SPACER				
C14	1	W62-26-18	PUMP SEAL				
C14	1	W62-49-11	MOTOR SEAL	C29XL	1	SA-0558	SPACER
C14	1	W86-100	RETAINER RING	C29XL	1	W09-01	KEY, 1/4 X 3/8 X 1-3/4
C14	1	ZD-0558	SEAL RETAINER	C29XL	1	W62-26-18	PUMP SEAL
				C29XL	1	W62-49-11	MOTOR SEAL
				C29XL	1	W86-100	SNAP RING
				C29XL	1	ZD-0558	SEAL RETAINER
C19	1	SA-0558	SPACER				
C19	1	W62-26-18	PUMP SEAL				
C19	1	W62-49-11	MOTOR SEAL				
C19	1	W86-100	RETAINER RING	C32	1	SA-0558	SPACER
C19	1	ZD-0558	SEAL RETAINER	C32	1	W09-02	KEY, 1/4 X 3/8 X 1-1/4
				C32	1	W62-26-18	PUMP SEAL
				C32	1	W62-49-11	MOTOR SEAL
				C32	1	W86-100	SNAP RING
				C32	1	ZD-0558	SEAL RETAINER
C20	1	SA-0558	SPACER				
C20	1	W62-26-18	PUMP SEAL				
C20	1	W62-49-11	MOTOR SEAL				
C20	1	W86-100	RETAINER RING				
C20	1	ZD-0558	SEAL RETAINER				
C20	1	W09-606	KEY, WOODRUFF 606				

PERMCO MODEL: 2100

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>
C32XL	1	SA-0558	SPACER
C32XL	1	W09-20	KEY, 1/4 X 1/4 X 1-1/2
C32XL	1	W62-26-18	PUMP SEAL
C32XL	1	W62-49-11	MOTOR SEAL
C32XL	2	W86-100	RETAINER RING
C32XL	1	ZD-0558	SEAL RETAINER
C57	2	SA-0558	SPACER
C57	1	W62-26-18	PUMP SEAL
C57	1	W62-49-11	MOTOR SEAL
C57	2	W86-100	RETAINER RING
C57	1	ZD-0558	SEAL RETAINER
C84	1	W62-26-18	PUMP SEAL
C84	1	W62-49-11	MOTOR SEAL
C84	1	ZD-0558	SEAL RETAINER
C85	1	W62-26-18	PUMP SEAL
C85	1	W62-49-11	MOTOR SEAL
C85	1	009-00836	KEY, 3/16 X 3/16 X 1-1/4
C85	1	ZD-0558	SEAL RETAINER
C87	1	SA-0558	SPACER
C87	1	W62-26-18	PUMP SEAL
C87	1	W62-49-11	MOTOR SEAL
C87	1	W86-100	RETAINER RING
C87	1	ZD-0558	SEAL RETAINER

PERMCO MODEL: 2100

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	576-00665	BLANK & BLANK	KA	1	576-00665-11-32	1 SF-T & BLANK
AA	1	576-00665-2-67	1-1/4 JIC-T & 1-1/4 JIC-T	LJ	1	576-00665-55-55	1 JIC-F & 1 JIC-F
AB	1	576-00665-11-63	BLANK & 1 JIC-T	QB	1	576-00665-33-71	3/4 JIC-F & 1 JIC-T
AC	1	576-00665-11-66	BLANK & 1-1/4 JIC-T	QC	1	576-00665-33-73	3/4 JIC-F & 1-1/4 JIC-T
AE	1	576-00665-11-69	BLANK & 1-1/2 JIC-T	QE	1	576-00665-33-76	3/4 JIC-F & 1-1/2 JIC-T
AS	1	576-00665-11-4	BLANK & 1 NPT-T	RC	1	576-00665-33-65	1 JIC-F & 1-1/4 JIC-T
AU	1	576-00665-11-7	BLANK & 1-1/4 NPT-T	RE	1	576-00665-33-74	1 JIC-F & 1-1/2 JIC-T
B	1	576-00665-11	T & BLANK	RY	1	576-00665-55-103	3/4 NPT-F & 1 NPT-F
BA	1	576-00665-11-63	1 JIC-T & BLANK	SA	1	576-00665-11-4	1 NPT-T & BLANK
BB	1	576-00665-2-64	1 JIC-T & 1 JIC-T	SI	1	576-00665-44-3	1 NPT-T & 3/4 NPT-F
BI	1	576-00665-33-71	1 JIC-T & 3/4 JIC-B	SS	1	576-00665-2-5	1 NPT-T & 1 NPT-T
BQ	1	576-00665-11-71	1 JIC-T & 3/4 JIC-F	SW	1	576-00665-33-3	1 NPT-T & 3/4 NPT-B
C	1	576-00665-11	BLANK & T	UA	1	576-00665-11-7	1-1/4 NPT-T & BLANK
CA	1	576-00665-11-66	1-1/4 JIC-T & BLANK	UI	1	576-00665-44-10	1-1/4 NPT-T & 3/4 NPT-F
CI	1	576-00665-33-73	1-1/4 JIC-T & 3/4 JIC-B	UJ	1	576-00665-44-6	1-1/4 NPT-T & 1 NPT-F
CJ	1	576-00665-33-65	1-1/4 JIC-T & 1 JIC-B	UW	1	576-00665-33-10	1-1/4 NPT-T & 3/4 NPT-B
CQ	1	576-00665-44-73	1-1/4 JIC-T & 3/4 JIC-F	UY	1	576-00665-33-6	1-1/4 NPT-T & 1 NPT-B
CR	1	576-00665-44-65	1-1/4 JIC-T & 1 JIC-F	WJ	1	576-00665-55-171	3/4 JIC-F & 1 JIC-F
EA	1	576-00665-11-69	1-1/2 JIC-T & BLANK	WS	1	576-00665-44-3	3/4 NPT-B & 1 NPT-T
EE	1	576-00665-2-70	1-1/2 JIC-T & 1-1/2 JIC-T	WU	1	576-00665-44-10	3/4 NPT-B & 1-1/4 NPT-T
EI	1	576-00665-33-76	1-1/2 JIC-T & 3/4 JIC-B	WY	1	576-00665-55-3	3/4 NPT-B & 1 NPT-B
EJ	1	576-00665-33-74	1-1/2 JIC-T & 1 JIC-B	YR	1	576-00665-55-3	1 NPT-F & 3/4 NPT-F
ER	1	576-00665-44-74	1-1/2 JIC-T & 1 JIC-F	YU	1	576-00665-44-6	1 NPT-B & 1-1/4 NPT-T
IB	1	576-00665-44-71	3/4 JIC-B & 1 JIC-T	YW	1	576-00665-55-103	1 NPT-B & 3/4 NPT-B
IC	1	576-00665-44-73	3/4 JIC-B & 1-1/4 JIC-T				
IE	1	576-00665-44-76	3/4 JIC-B & 1-1/2 JIC-T				
IJ	1	576-00665-55-71	3/4 JIC-B & 1 JIC-B				
IS	1	576-00665-33-3	3/4 NPT-F & 1 NPT-T				
IU	1	576-00665-33-10	3/4 NPT-F & 1-1/4 NPT-T				
JC	1	576-00665-44-65	1 JIC-B & 1-1/4 JIC-T				
JE	1	576-00665-44-74	1 JIC-B & 1-1/2 JIC-T				
JI	1	576-00665-55-171	1 JIC-B & 3/4 JIC-B				
JL	1	576-00665-55-55	1 JIC-B & 1 JIC-B				
JU	1	576-00665-33-6	1 NPT-F & 1-1/4 NPT-T				
JW	1	576-00665-55-71	1 JIC-F & 3/4 JIC-F				

**PERMCO MODEL: 2100****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>
	2	KA-0558-1XS	RING SEAL
	4	X-0921	CROWNED ROLLER BRNG
B	2	KA-0558-1XS	RING SEAL
B	1	W0-19	PIPE PLUG
B	4	X-0921	CROWNED ROLLER BRGN
C	2	KA-0558-1XS	RING SEAL
C	1	W0-19	PIPE PLUG
C	4	X-0921	CROWNED ROLLER BRGN

PERMCO MODEL: 2100

Gear and Connecting Shafts

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

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

## 2100 SERIES FASTENERS

### PLASTIC PLUGS

Port size	NPT	ODT
1/4"	#11	----
3/8"	#17	#23
1/2"	#23	#23
5/8"	----	#27
3/4"	#30	#35
1"	#42	#44
1-1/4"	#53	#53
1-1/2"	#57	#57
2"	#68	----
2-1/2"	#78	----

### Studs for Multiple Units

	Flush	Extended
<b>2 Section</b>	7.25	8.25
<b>3 Section</b>	10.5	11.5
<b>4 Section</b>	13.75	14.75
<b>5 Section</b>	17	18

\*\*\*Add total gear width + above dimension to obtain stud length.

### FASTENERS FOR SINGLE UNITS

Gear Size	Part #	Bolt Length	Qty.
1/2"	900-01020-400	4"	4
3/4"	900-01020-400	4"	4
1"	W1-300	4-1/2"	4
1-1/4"	W1-300	4-1/2"	4
1-1/2"	W1-400	5"	4
1-3/4"	W1-400	5"	4
2"	900-01020-550	5-1/2"	4
2-1/4"	900-01020-550	5-1/2"	4
2-1/2"	900-01020-600	6"	4

Washer # W033-3 4

Stud for single unit: 900-01021-0725

#### NOTE: Type II Cover

Use 2pcs. of the standard fastener and 2pcs. that are 1/2" shorter than standard.

Part #	Size
900-01021-1000	9/16"-12unc x 10.00"
900-01021-1225	9/16"-12unc x 12.25"
900-01021-1750	9/16"-12unc x 17.50"
900-01021-3600	9/16"-12unc x 36"

W033-3 9/16" washer  
 900-01022 9/16" nut  
 SP-1000-2 Thread Protector

### Shaft Protectors

SP-1000-1	.656" Dia
SP-1000-2	.587" Dia
SP-1000-3	DC, GD, BC 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	AC, CC 7/8" Dia

