

\* \* 360 MOTOR 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.

THE FOLLOWING IS THE CODE BOOK FOR THE 360 SERIES.

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. GEAR/SHAFTS FOLLOWED BY DRIVE SHAFT SMALL PARTS.
- V. BEARING CARRIERS FOLLOWED BY BEARING CARRIER SMALL PARTS.
- VI. CONNECTING SHAFTS.

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\* \* 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

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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 \* 360 SERIES \*  
 \* MOTOR \*  
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SERIES IDENTIFICATION

STUD HOLES - 4 AT 51/64 DIAMETER  
 STUD DIA. - 3/4 IN.  
 ONE-PIECE DRIVE SHAFT AND GEAR (INTEGRAL)  
 HOUSING HEIGHT - 7 INCHES  
 HOUSING WIDTH - GEAR SIZE + 1/2 INCH  
**PUMP BOLT TORQUE - 450 FT-LBS**

GEAR WIDTHS AVAILABLE

1 1-1/4 1-1/2 1-3/4 2 2-1/4 AND 2-1/2 INCH

**NOTE: 1/2 & 3/4 INCH GEAR WIDTHS, CONSULT FACTORY**

SHAFT END COVERS

THE FIRST DIGIT OF THE SHAFT END COVER CODE DESIGNATES A UNIT WITH AN SHAFT BEARING OR NO BEARING .

	<u>BEARING</u>	<u>NO BEARING</u>
ALL CODES BEGINNING WITH 7	XX	
8		XX

HOUSINGS

1. JIC PORTS ARE RECOMMENDED FOR USE AT PRESSURES UP TO 2500 PSI. FOR HIGHER PRESSURES CONSULT FACTORY.
2. SPLIT FLANGE PORTS ARE RECOMMENDED FOR PRESSURES ABOVE 2500 PSI. CONSULT FACTORY FOR CORRECT PORTING.

**PERMCO MODEL: 360 Motor**

**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>
731	1	574-01559	360 'B' SEC 4-BLT MOTOR
767	1	574-01560	360 'C' SEC 4-BLT MOTOR
779	1	574-01561	360 'D' SEC 4-BLT MOTOR
786	1	574-01608	360 'B' SEC 2-BLT MOTOR
787	1	574-01606	360 'C' SEC 2-BLT MOTOR
831	1	574-01559	360 'B' SEC 4-BLT MOTOR
867	1	574-01560	360 'C' SEC 4-BLT MOTOR
879	1	574-01561	360 'D' SEC 4-BLT MOTOR
886	1	574-01608	360 'B' SEC 2-BLT MOTOR
887	1	574-01606	360 'C' SEC 2-BLT MOTOR

PERMCO MODEL: 360 Motor

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
731	2	921-01380	360 BUSHING	831	2	921-01380	360 BUSHING
731	1	W62-49-1	360, 7500 MOTOR SEAL	831	1	W62-49-1	360, 7500 MOTOR SEAL
731	1	W85-315	360, 7500 SNAP RING	831	1	W85-315	360, 7500 SNAP RING
731	1	W58-48	360, 7500 BALL BEARING	831	2	L-0280-K	CHECK VALVE
731	2	L-0280-K	CHECK VALVE	831	1	961-01616	360 SEAL RETAINER, MOTOR
731	1	961-01616	360 SEAL RETAINER, MOTOR	831	1	UA-0558	360, 7500 BEARING SPACER
731	1	565-01194	1/4" ORB, HOLLOW HEX PLUG	831	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
767	2	921-01380	360 BUSHING	867	2	921-01380	360 BUSHING
767	1	W62-49-1	360, 7500 MOTOR SEAL	867	1	W62-49-1	360, 7500 MOTOR SEAL
767	1	W85-315	360, 7500 SNAP RING	867	1	W85-315	360, 7500 SNAP RING
767	1	W58-48	360, 7500 BALL BEARING	867	2	L-0280-K	CHECK VALVE
767	2	L-0280-K	CHECK VALVE	867	1	961-01616	360 SEAL RETAINER, MOTOR
767	1	961-01616	360 SEAL RETAINER, MOTOR	867	1	UA-0558	360, 7500 BEARING SPACER
767	1	565-01194	1/4" ORB, HOLLOW HEX PLUG	867	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
779	2	921-01380	360 BUSHING	879	2	921-01380	360 BUSHING
779	1	W62-49-1	360, 7500 MOTOR SEAL	879	1	W62-49-1	360, 7500 MOTOR SEAL
779	1	W85-315	360, 7500 SNAP RING	879	1	W85-315	360, 7500 SNAP RING
779	1	W58-48	360, 7500 BALL BEARING	879	2	L-0280-K	CHECK VALVE
779	2	L-0280-K	CHECK VALVE	879	1	961-01616	360 SEAL RETAINER, MOTOR
779	1	961-01616	360 SEAL RETAINER, MOTOR	879	1	UA-0558	360, 7500 BEARING SPACER
779	1	565-01194	1/4" ORB, HOLLOW HEX PLUG	879	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
786	2	921-01380	360 BUSHING	886	2	921-01380	360 BUSHING
786	1	W62-49-1	360, 7500 MOTOR SEAL	886	1	W62-49-1	360, 7500 MOTOR SEAL
786	1	W85-315	360, 7500 SNAP RING	886	1	W85-315	360, 7500 SNAP RING
786	1	W58-48	360, 7500 BALL BEARING	886	2	L-0280-K	CHECK VALVE
786	2	L-0280-K	CHECK VALVE	886	1	961-01616	360 SEAL RETAINER, MOTOR
786	1	961-01616	360 SEAL RETAINER, MOTOR	886	1	UA-0558	360, 7500 BEARING SPACER
786	1	565-01194	1/4" ORB, HOLLOW HEX PLUG	886	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
787	2	921-01380	360 BUSHING	887	2	921-01380	360 BUSHING
787	1	W62-49-1	360, 7500 MOTOR SEAL	887	1	W62-49-1	360, 7500 MOTOR SEAL
787	1	W85-315	360, 7500 SNAP RING	887	1	W85-315	360, 7500 SNAP RING
787	1	W58-48	360, 7500 BALL BEARING	887	2	L-0280-K	CHECK VALVE
787	2	L-0280-K	CHECK VALVE	887	1	961-01616	360 SEAL RETAINER, MOTOR
787	1	961-01616	360 SEAL RETAINER, MOTOR	887	1	UA-0558	360, 7500 BEARING SPACER
787	1	565-01194	1/4" ORB, HOLLOW HEX PLUG	887	1	565-01194	1/4" ORB, HOLLOW HEX PLUG

\* NOTE \* FOR SEVERE DUTY APPLICATIONS USE # 961-01566 SEAL RETAINER.

THE 961-01566 SEAL RETAINER MUST BE USED WITH INTEGRAL GEAR SHAFTS.

**PERMCO MODEL: 360 Motor**

**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>
AZ	1	592-01613	360 PEC, TANDEM, MOTOR				
BQ	1	592-01563-2237	1-1/2 X 1-1/2 SIDE (SF)				
BR	1	592-01563-2232	1-1/4 X 1-1/4 SIDE (SF)				
BS	1	592-01563-2227	1 X 1 SIDE (SF)				
BU	1	592-01563-2216	3/4 X 3/4 SIDE (SF)				
BV	1	592-01563-2537	1-1/2 X 1-1/2 SIDE (MET.SF)				
BW	1	592-01563-2532	1-1/4 X 1-1/4 SIDE (MET.SF)				
BX	1	592-01563-2527	1 X 1 SIDE (MET.SF)				
BY	1	592-01563-2516	3/4 X 3/4 SIDE (MET.SF)				
UB	1	592-01563-2332	1-1/4 X 1-1/4 SIDE (JIC)				
UM	1	592-01563-2327	1 X 1 SIDE(JIC)				
UQ	1	592-01563-2316	3/4 X 3/4 SIDE (JIC)				
UW	1	592-01563-2432	1-1/4 X 1-1/4 SIDE (BSPP)				
UX	1	592-01563-2427	1 X 1 SIDE (BSPP)				
UY	1	592-01563-2416	3/4 X 3/4 SIDE (BSPP)				

PERMCO MODEL: 360 Motor

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>
AZ	2	921-01380	360 BUSHING
AZ	1	Z-1967-45-2	PERMCO NAME TAG
AZ	2	L-0280-K	CHECK VALVE

ALL OTHER CODES

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
	2	921-01380	360 BUSHING
	1	Z-1967-45-2	PERMCO NAME TAG



**PERMCO MODEL: 360 Motor****Housings**

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
DA10	1	577-01562-10	360 GEAR HOUSING FOR 1 GEAR
DA12	1	577-01562-12	360 GEAR HOUSING FOR 1-1/4 GEAR
DA15	1	577-01562-15	360 GEAR HOUSING FOR 1-1/2 GEAR
DA17	1	577-01562-17	360 GEAR HOUSING FOR 1-3/4 GEAR
DA20	1	577-01562-20	360 GEAR HOUSING FOR 2 GEAR
DA22	1	577-01562-22	360 GEAR HOUSING FOR 2-1/4 GEAR
DA25	1	577-01562-25	360 GEAR HOUSING FOR 2-1/2 GEAR

PERMCO MODEL: 360 Motor

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	280-1971-069	360 MOTOR HOLLOW DOWEL PIN
	2	947-01572	360 THRUST PLATE, MOTOR
	2	947-01573	360 THRUST PLATE, BACK-UP RING, MOTOR
	4	947-01574	360 THRUST PLATE, SIDE SEAL, MOTOR
	4	947-01575	360 THRUST PLATE, END SEAL, MOTOR
	2	TA-2995-249	360 SQUARE GASKET, MOTOR

## PERMCO MODEL: 360 Motor

## DRIVE SHAFTS OR GEAR/SHAFTS

CODE	QTY	PART NUMBER	D E S C R I P T I O N
00	1	024-01411-10	360 G/SH MULTI 1 SAE C-KEYED
00	1	024-01411-12	360 G/SH MULTI 1-1/4 SAE C-KEYED
00	1	024-01411-15	360 G/SH MULTI 1-1/2 SAE C-KEYED
00	1	024-01411-17	360 G/SH MULTI 1-3/4 SAE C-KEYED
00	1	024-01411-20	360 G/SH MULTI 2 SAE C-KEYED
00	1	024-01411-22	360 G/SH MULTI 2-1/4 C-KEYED
00	1	024-01411-25	360 G/SH MULTI 2-1/2 C-KEYED
6	1	024-01394-10	360 G/SH MULTI 1 SAE C-SPLN
6	1	024-01394-12	360 G/SH MULTI 1-1/4 SAE C-SPLN
6	1	024-01394-15	360 G/SH MULTI 1-1/2 SAE C-SPLN
6	1	024-01394-17	360 G/SH MULTI 1-3/4 SAE C-SPLN
6	1	024-01394-20	360 G/SH MULTI 2 SAE C-SPLN
6	1	024-01394-22	360 G/SH MULTI 2-1/4 SAE C-SPLN
6	1	024-01394-25	360 G/SH MULTI 2-1/2 SAE C-SPLN
87	1	024-01466-15	360 G/SH MULTI 1-1/2 SAE BB-SPLN
87	1	024-01466-17	360 G/SH MULTI 1-3/4 SAE BB-SPLN
87	1	024-01466-20	360 G/SH MULTI 2 SAE BB-SPLN
87	1	024-01466-25	360 G/SH MULTI 2-1/2 BB-SPLN
C00	1	023-01619	360 CONT. SH, 1-1/4 DIA. C KEYED
C 6	1	023-01617	360 CONT. SH, 1-1/4 DIA.14 T C SPLN
C87	1	023-01618	360 CONT. SH, 1 DIA. 15 T BB SPLN
C99	1	023-01614	360 CONT. SH, 1-1/2 DIA.17 T CC SPLN

## PERMCO MODEL: 360 Motor

## 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>
00	1	SP-1000-5	SHAFT PROTECTOR/ 1-1/4 DIA
00	1	009-01412	5/16 X 5/16 X 1-1/2 KEY
6	1	SP-1000-4	SHAFT PROTECTOR/ 1-1/4 DIA
87	1	SP-1000-3	SHAFT PROTECTOR/ 1 DIA
C00	1	W86-137	7500, 360 SNAP RING
C00	1	009-01412	5/16 X 5/16 X 1-1/2 KEY
C00	1	SP-1000-5	SHAFT PROTECTOR/ 1-1/4 DIA
C00	1	558-01615	360 CONTI SHAFT BRG SPACER
C 6	1	W86-137	7500, 360 SNAP RING
C 6	1	SP-1000-4	SHAFT PROTECTOR/ 1-1/4 DIA
C 6	1	558-01615	360 CONTI SHAFT BRG SPACER
C87	1	W86-137	7500, 360 SNAP RING
C87	1	SP-1000-3	SHAFT PROTECTOR/ 1 DIA
C87	1	558-01615	360 CONTI SHAFT BRG SPACER
C99	1	W86-137	7500, 360 SNAP RING
C99	* 1	SP-1000-xxx	SHAFT PROTECTOR/ 1-1/2 DIA
C99	1	558-01615	360 CONTI SHAFT BRG SPACER

**PERMCO MODEL: 360 Motor      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>
10	1	996-01375-10	360 1" GEAR SET
12	1	996-01375-12	360 1-1/4" GEAR SET
15	1	996-01375-15	360 1-1/2" GEAR SET
17	1	996-01375-17	360 1-3/4" GEAR SET
20	1	996-01375-20	360 2" GEAR SET
22	1	996-01375-22	360 2-1/4" GEAR SET
25	1	996-01375-25	360 2-1/2" GEAR SET

PERMCO MODEL: 360 Motor      Bearing Carriers (Single In, Single Out)

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
ZZ	1	576-01612-1241	2"-T X 2"-T (SF)				
AA	1	576-01612-1237	1-1/2"-T X 1-1/2"-T (SF)				
BB	1	576-01612-1232	1-1/4"-T X 1-1/4"-T (SF)				
DD	1	576-01612-1227	1"-T X 1"-T (SF)				
LL	1	576-01612-1337	1-1/2"-T X 1-1/2"-T (JIC)				
MM	1	576-01612-1332	1-1/4"-T X 1-1/4"-T (JIC)				
PP	1	576-01612-1327	1"-T X 1"-T (JIC)				
QQ	1	576-01612-1316	3/4"-T X 3/4"-T (JIC)				
FF	1	576-01612-1541	2"-T X 2"-T (M-SF)				
GG	1	576-01612-1537	1-1/2"-T X 1-1/2"-T (M-SF)				
II	1	576-01612-1532	1-1/4"-T X 1-1/4"-T (M-SF)				
JJ	1	576-01612-1527	1"-T X 1"-T (M-SF)				
KK	1	576-01612-1516	3/4"-T X 3/4"-T (M-SF)				
VV	1	576-01612-1437	1-1/2"-T X 1-1/2"-T (BSPP)				
WW	1	576-01612-1432	1-1/4"-T X 1-1/4"-T (BSPP)				
XX	1	576-01612-1427	1"-T X 1"-T (BSPP)				
YY	1	576-01612-1416	3/4"-T X 3/4"-T (BSPP)				

PERMCO MODEL: 360 Motor

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	921-01380	360 BUSHING

\*\* All bearing carriers.

PERMCO MODEL: 360 Motor

Connecting Shaft

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
1	1	022-01393	360 CONNECTOR SHAFT



