

## P315/P330/P350/P365 GEAR PUMPS AND MOTORS

### Characteristics :

- High efficiency single / multiple units
- Wide range of displacements
- Optional shafts / mountings
- Rugged cast iron construction
- Motor assemblies available
- Complete parts program
- Flow dividers available



### BUSHING GEAR PUMPS PERFORMANCE DATA

IFP MODEL SERIES	GEAR WIDTH (inches)	Theoretical displacement		Mineral oil maximum pressure				Recommended speed range		Approximate weight			
		in <sup>3</sup> /rev	cm <sup>3</sup> /rev	Continuous		Intermittent		MAX rpm	MIN rpm	Single unit		Add section	
				PSI	BAR	PSI	BAR			lbs	kg	lbs	kg
P315	1/2	.62	10.20	3000	207	3500	241	3000	600	14	6	13.5	5
	3/4	.93	15.20	3000	207	3500	241	3000	600	15	7	14.25	6.65
	1	1.24	20.30	3000	207	3500	241	3000	600	18	8	17	7.6
	1 1/4	1.55	25.40	3000	207	3500	241	3000	600	19	8.5	18	8
	1 1/2	1.86	30.50	2750	190	3200	228	3000	600	20	9	19	8.5
	1 3/4	2.17	35.60	2500	172	2900	200	3000	600	21	9.5	20	9
P330	2	2.48	40.60	2250	155	2500	172	3000	600	22	10	21	9.5
	1/2	.99	16.10	3000	207	3500	241	3000	600	33.5	15	30	13.5
	3/4	1.48	24.20	3000	207	3500	241	3000	600	34.75	15.5	31	14
	1	1.97	32.30	3000	207	3500	241	3000	600	36	16	32.5	14.5
	1 1/4	2.46	40.40	3000	207	3500	241	3000	600	37.25	16.5	33.5	14.85
	1 1/2	2.96	48.40	3000	207	3500	241	3000	600	38.5	17	34.5	15.3
P350	1 3/4	3.45	56.50	2750	190	3250	224	3000	600	39.75	17.5	35.75	15.75
	2	3.94	64.60	2500	172	3000	207	3000	600	40	18	36	16.2
	3/4	1.91	31.30	3000	207	3500	241	3000	600	49.5	22	47	21
	1	2.55	41.80	3000	207	3500	241	2400	600	51	23	48.5	21.75
	1 1/4	3.19	52.20	3000	207	3500	241	2400	600	52.5	23.5	49.75	22.3
	1 1/2	3.83	62.70	3000	207	3500	241	2400	600	54	24	51	22.8
P365	1 3/4	4.46	73.10	2750	190	3250	224	2400	600	55.5	25	52.75	23.25
	2	5.10	83.60	2500	172	3000	207	2400	600	57	25.5	54	23.75
	2 1/4	5.74	94.00	2500	172	2750	190	2400	600	58.5	26	55.5	24.7
	2 1/2	6.38	104.50	2250	155	2500	172	2400	600	60	27	57	25.65
	3/4	2.70	44.30	3000	207	3500	241	2400	600	53.5	24	50.8	22.8
	1	3.60	59.00	3000	207	3500	241	2400	600	56	25	53	23.75
P365	1 1/4	4.50	73.80	3000	207	3500	241	2400	600	58.5	26	55.5	24.75
	1 1/2	5.40	88.50	3000	207	3500	241	2400	600	61	27.5	58	26
	1 3/4	6.30	103.30	3000	207	3500	241	2400	600	63.5	28.5	60	27
	2	7.20	118.00	3000	207	3500	241	2400	600	66	29.5	62.5	28
	2 1/4	8.10	132.80	2750	190	3250	224	2400	600	68.5	31	65	29.5
	2 1/2	9.00	147.50	2500	172	3000	207	2400	600	71	32	67.5	30

Eternal manufactures bushing gear pumps and motors to the highest quality and durability for the most demanding applications. Our gears are produced to precise tolerances with a true involute profile along the tooth thus maximising volumetric efficiency. The result is more efficient longer lasting pumps & motors with lower noise emissions.

Eternal casts all its shaft end covers, gear housings, bearing carriers, and port covers out of grade 17 cast iron, which is metallurgically controlled to provide only the highest quality castings. In all assemblies, high density bronze alloy thrust plates with superior wear characteristics ensures longer pump or motor life under the harshest conditions.

The high operating pressure and speed combined with the large number of displacements, mounting options and port configurations make these units ideal for single and multiple pump and motor applications.

# P315/P330/P350/P365 PUMP PERFORMANCE DATA

Average Data at 2000psi / 138 bar  
 Oil Viscosity - 150 SUS (32 CST)

## P315

		GEAR WIDTH (Inches)						
		1/2"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"
cu in/rev	cc/rev	.62	.93	1.24	1.55	1.86	2.17	2.48
	gpm	10.20	15.20	20.30	25.40	30.50	35.60	40.60
		lpm	lpm	lpm	lpm	lpm	lpm	lpm
900	6	1.6	2.8	4.0	5.2	6.2	7.2	8.4
	1200	2.4	3.9	5.4	6.9	8.6	10.1	11.7
1500	18	3.2	5.2	7.2	9.2	11.1	13	14.8
	2100	4.0	6.4	8.7	11	13.4	16.7	18
1800	24	4.8	7.6	10.4	13.2	15.9	18.5	21.2
	2700	5.6	8	12.0	15.2	18.2	21.2	24.2
2400	30	6	11.5	15	19.5	23.5	27.7	32
	3600	9	14.8	20.5	26.2	32.5	38.2	44
3000	12	12	22	32	42	53	61	70
	15	15	24	33	42	51	59.5	68
1800	18	18	27	34.8	42	48	56	64
	2100	21	33.3	45.5	57.76	69	80.2	91.5
2400	24	24	36	48	60	72	84	96
	27	27	40.5	54	67.5	81	94.5	108

## P330

		GEAR WIDTH (Inches)						
		1/2"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"
cu in/rev	cc/rev	.99	1.48	1.97	2.46	2.96	3.45	3.94
	gpm	16.10	24.20	32.30	40.40	48.40	56.50	64.60
		lpm	lpm	lpm	lpm	lpm	lpm	lpm
900	6	2	4	6	8	10	12	13.5
	1200	3.5	6	8.5	11.5	14	16	18.5
1500	18	5.5	9.5	13	17.5	21.5	25.5	29.5
	2100	7.5	12	16.5	21.5	26.5	31.5	36.5
1800	24	9	15	21	27.5	33.5	39.5	45.5
	2700	12	20	28	36	44	52	60
2400	30	15	24	33	42	51	60	69
	3600	21	33.3	45.5	57.76	69	80.2	91.5
3000	24	24	36	48	60	72	84	96
	27	27	40.5	54	67.5	81	94.5	108

## P350

		GEAR WIDTH (Inches)							
		3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/4"	2 1/2"
cu in/rev	cc/rev	1.91	2.55	3.19	3.83	4.46	5.10	5.74	5.74
	gpm	31.30	41.80	52.20	62.70	73.10	83.60	94.00	94.00
		lpm	lpm	lpm	lpm	lpm	lpm	lpm	lpm
900	6	6	8	10.5	13	15	17.5	20	22
	1200	10	14.5	19	23	27	31	35	39
1500	18	15	21	27	33.5	40	46.5	53	59.5
	2100	21	28.5	37.5	46.5	55.5	64.5	73.5	82.5
1800	24	24	33	42	51	60	69	78	87
	2700	30	40.5	54	67.5	81	94.5	108	121.5
2400	30	30	40.5	54	67.5	81	94.5	108	121.5
	3600	42	56.7	75.6	94.5	114	133	152	171

## P365

		GEAR WIDTH (Inches)							
		3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/4"	2 1/2"
cu in/rev	cc/rev	2.70	3.60	4.50	5.40	6.30	7.20	8.10	9.00
	gpm	44.30	59.00	73.80	88.50	103.30	118.00	132.80	147.50
		lpm	lpm	lpm	lpm	lpm	lpm	lpm	lpm
900	6	7.5	10.5	13.5	17	20.5	24	27.5	31
	1200	11	15.5	20	24.5	29	33.5	38	43
1500	18	15	20	25.5	31	37.5	43	49	55
	2100	21	28.5	37.5	46.5	55.5	64.5	73.5	82.5
1800	24	24	33	42	51	60	69	78	87
	2700	30	40.5	54	67.5	81	94.5	108	121.5
2400	30	30	40.5	54	67.5	81	94.5	108	121.5
	3600	42	56.7	75.6	94.5	114	133	152	171

NOTE - PERFORMANCE DATA SHOWN ARE AN AVERAGE AND ARE NOT REPRESENTATIVE OF ONE PARTICULAR UNIT

# M315/M330/M350/M365 MOTOR PERFORMANCE DATA

Average Data at 2000psi / 138 bar  
Oil Viscosity - 150 SUS (32 CST)

## M315

Speed rpm	½" Gear		¾" Gear		1" Gear		1¼" Gear		1½" Gear		1¾" Gear		2" Gear	
	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow
	.62 in3/rev	Output Torque	.93 in3/rev	Output Torque	1.24 in3/rev	Output Torque	1.55 in3/rev	Output Torque	1.86 in3/rev	Output Torque	2.17 in3/rev	Output Torque	2.48 in3/rev	Output Torque
900	4.4	265	5.6	450	6.8	635	8.0	820	9.2	880	10.6	915	11.9	910
	16	30	21	51	26	72	30	93	35	99	40	103	45	103
1200	5.3	280	6.9	460	8.5	640	10.1	820	11.7	875	13.4	915	15.2	910
	4	30	26	51	32	72	38	93	44	99	51	103	58	103
1500	6.2	290	8.2	465	10.2	640	12.2	815	14.2	870	16.4	910	18.6	905
	25	32	32	52	39	72	46	92	54	98	62	103	72	102
1800	7.3	300	9.6	470	11.9	640	14.2	810	16.6	860	18.2	900	21.9	895
	27	32	36	52	45	72	54	92	63	97	69	102	83	101
2000	7.8	285	10.7	460	13.6	635	16.3	810	19.0	850	22.2	895	25.3	890
	33	32	42	52	51	72	62	92	72	96	84	101	96	100
2400	9.1	290	12.2	460	15.3	630	18.4	800	21.5	835	25.1	875	28.7	870
	36	33	47	52	58	71	70	90	81	94	95	99	109	98

## M330

Speed rpm	½" Gear		¾" Gear		1" Gear		1¼" Gear		1½" Gear		1¾" Gear		2" Gear	
	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow
	.99 in3/rev	Output Torque	1.48 in3/rev	Output Torque	1.97 in3/rev	Output Torque	2.46 in3/rev	Output Torque	2.96 in3/rev	Output Torque	3.45 in3/rev	Output Torque	3.94 in3/rev	Output Torque
900	5.5	745	7.5	895	9.5	995	11.5	1245	13.5	1495	15.5	1650	17.5	1720
	20	83	29	83	36	112	44	141	51	169	59	186	66	194
1200	7.5	740	10	740	12.5	995	15.0	1250	17.5	1500	20.2	1660	22.5	1725
	27	54	37	83	47	112	57	141	66	169	76	188	85	195
1500	9	455	12	720	15	985	18	1250	21.5	1495	24.5	1630	28	1725
	35	51	46	81	57	111	68	141	81	169	93	184	106	195
1800	9.5	450	13.5	700	17.5	950	21.5	1200	25.5	1475	29	1600	33	1700
	34	49	50	78	66	107	81	136	97	167	110	181	125	1921
2000	11	415	15.5	670	20	925	24.5	1180	29.5	1440	34	15640	38.5	1670
	38	44	57	75	76	105	93	133	112	163	129	174	146	189
2400	12	315	17.5	600	22.5	885	28	1170	33	1400	38.5	1475	43.5	1640
	45	48	65	74	85	100	106	132	125	158	146	167	165	185

## M350

Speed rpm	¾" Gear		1" Gear		1¼" Gear		1½" Gear		1¾" Gear		2" Gear		2¼" Gear		2½" Gear	
	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow
	1.91 in3/rev	Output Torque	2.55 in3/rev	Output Torque	3.19 in3/rev	Output Torque	3.83 in3/rev	Output Torque	4.46 in3/rev	Output Torque	5.10 in3/rev	Output Torque	5.74 in3/rev	Output Torque	6.38 in3/rev	Output Torque
900	11	880	13.5	1240	16	1600	18.5	1950	21	2140	23.5	2260	26	2340	28.5	2360
	41	99	51	140	61	181	70	220	79	242	89	255	98	264	108	267
1200	14	890	17	1250	20	1610	23.5	1960	27	2150	30	2260	33.5	2340	37	2360
	52	100	64	141	76	182	89	221	102	243	114	255	127	264	140	267
1500	16.5	880	20	1240	24.5	1600	28.5	1960	32.5	2130	36.5	2230	41	2310	45	2330
	59	99	76	140	93	181	108	221	123	241	138	252	155	261	170	263
1800	18.5	860	23.5	1210	28.5	1560	33.5	1900	38.5	2060	43.5	2160	48.5	2240	53.5	2260
	70	98	89	137	108	176	127	215	146	2331	165	244	184	253	202	255
2000	20.5	830	26.5	1175	32.5	1520	38.5	1840	44	2000	50	2100	56	2160	62	2180
	77	94	100	133	123	172	146	208	167	226	189	237	212	244	235	246
2400	23	810	30	1140	37	1470	43.5	1790	50	1950	57	2050	63.5	2110	70	2130
	88	92	114	129	140	166	165	202	189	220	216	232	240	238	265	241

## M365

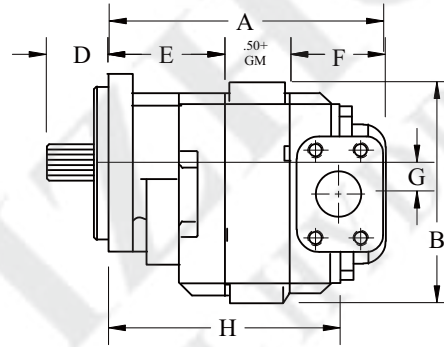
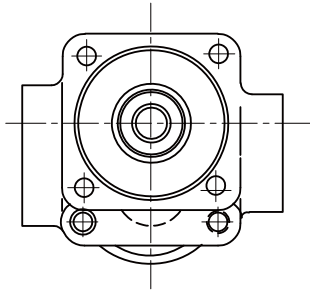
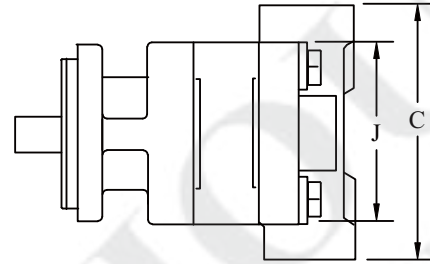
Speed rpm	¾" Gear		1" Gear		1¼" Gear		1½" Gear		1¾" Gear		2" Gear		2¼" Gear		2½" Gear	
	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow	Displ.	Flow
	2.70 in3/rev	Output Torque	3.60 in3/rev	Output Torque	4.50 in3/rev	Output Torque	5.40 in3/rev	Output Torque	6.30 in3/rev	Output Torque	7.20 in3/rev	Output Torque	8.10 in3/rev	Output Torque	9.00 in3/rev	Output Torque
900	15.5	1350	19	1790	22.5	2230	26	2730	29.5	3200	33	3610	37	3880	40	3960
	59	152	72	202	85	252	98	308	112	361	125	408	140	438	151	447
1200	19	1350	23.5	1800	28	2250	33	2740	37.5	3230	42.5	3620	47.5	3900	52	3975
	72	152	89	203	106	254	125	309	142	365	161	409	180	441	197	449
1500	22	1340	28	1790	34	2240	40	2720	46	3200	52	3600	58	3810	63.5	3950
	83	151	106	202	129	253	151	307	174	361	197	407	220	430	240	446
1800	26	1340	33	1770	40	2200	47	2650	54	3150	61	3540	68	3720	75	3875
	99	152	125	200	151	248	178	300	204	356	231	400	257	420	284	438
2000	29	1270	37.5	1700	46	2130	54	2600	62.5	3075	70.5	3440	79	3600	87	3790
	110	143	142	192	174	241	204	294	237	347	267	389	299	407	329	428
2400	33	1190	42.5	1620	52	2050	61	2500	70.5	2975	80	3360	90	3500	98.5	3650
	125	134	161	183	197	232	231	2800	267	336	303	380	341	395	373	412

## P315/330/365 GEAR PUMP & MOTOR INSTALLATION DIMENSIONS

DIMENSION (inches/mm)

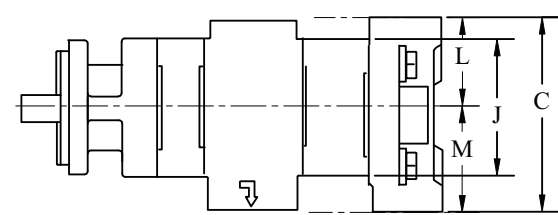
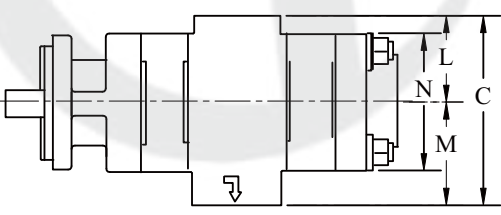
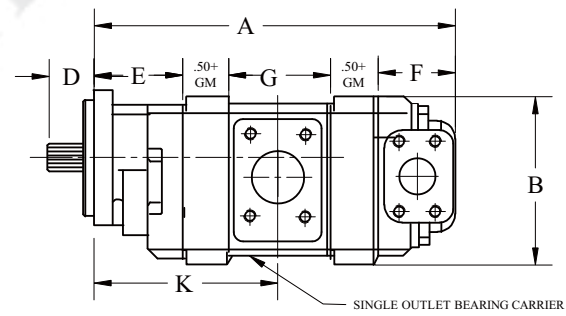
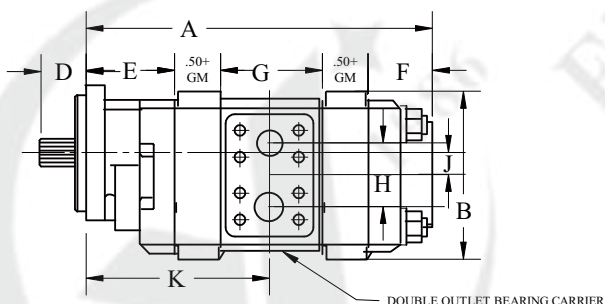
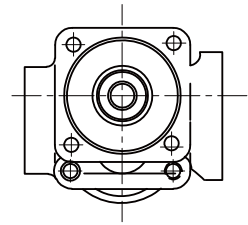
### SINGLE PUMPS & MOTORS

Model	A	B	C**	D*	E	F	G	H	J(P)	J(M)
315	4.27+GW	4.75	4.25	1.62	1.88	2.0	0.75	3.27+GW	4.0	4.19
	108.5+GW	120.7	108.0	41.1	47.8	50.8	19.1	83.1+GW	101.6	106.4
330	6.19+GW	5.88	6.88	1.62	3.12	2.5	6.88	4.94+GW	4.81	5.00
	157.2+GW	149.4	174.8	41.1	79.2	65.0	22.2	125.5+GW	122.2	127.0
350	7.06+GW	6.00	7.12	2.19	3.50	3.06	1.00	5.56+GW	5.75	5.75
	179.3+GW	152.4	108.8	55.6	88.9	77.7	25.4	141.2+GW	146.1	146.1
365	7.31+GW	7.25	7.38	2.19	3.75	3.06	1.12	5.81+GW	6.25	6.25
	185.7+GW	184.2	187.5	55.6	95.3	77.7	28.6	147.6+GW	158.8	158.8



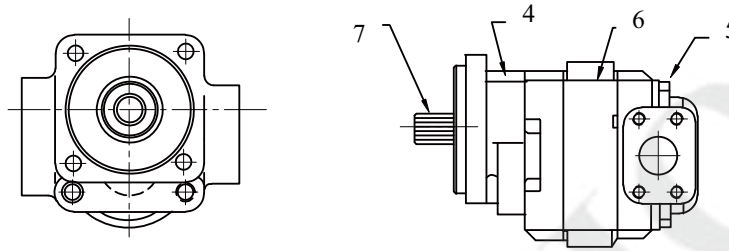
### TANDEM PUMPS & MOTORS

Model	A	B	C**	D*	E	F	G	H	I	J	K	L**	M**	N(P)	N(M)
315	7.05+T.GW	4.75	4.25	1.62	1.88	1.75	2.62	1.84	.34	.75	3.59+GW	2.25	2.75	4.0	4.19
	179.1+T.GW	120.7	108.0	41.1	47.8	44.5	66.5	46.7	8.6	19.1	91.2+GW	57.2	69.9	101.6	106.4
330	9.88+T.GW	5.88	6.88	1.62	3.12	2.25	3.50	2.38	.62	.88	5.38+GW	3.09	3.69	4.81	5.00
	250.9+T.GW	149.4	174.8	41.1	79.2	57.2	88.9	60.5	15.7	22.2	136.7+GW	78.5	93.7	122.2	127.0
350	10.25+T.GW	6.00	7.12	2.19	3.50	2.25	3.50	2.50	.50	1.00	5.75+GW	3.56	4.12	5.75	5.75
	260.4+T.GW	152.4	108.8	55.6	88.9	57.2	88.9	63.5	12.7	25.4	146.1+GW	90.4	104.6	146.1	146.1
365	11.38+T.GW	7.25	7.38	2.19	3.75	2.62	4.00	2.88	.62	1.12	6.25+GW	3.69	4.69	6.25	6.25
	289.1+T.GW	184.2	187.5	55.6	95.3	66.5	101.6	73.3	15.7	28.6	158.8+GW	93.7	119.1	158.8	158.8



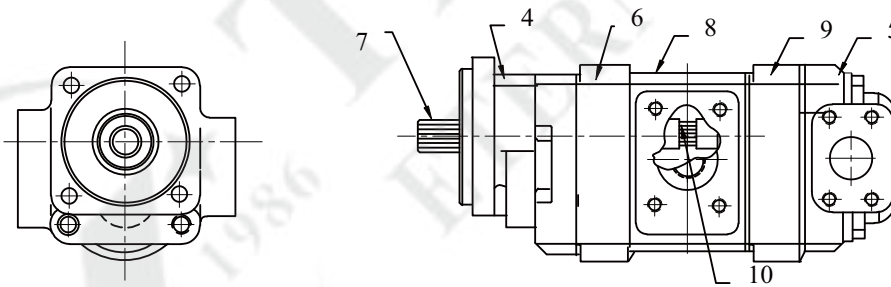
# P315/P330/P350/P365 MODEL CODING & NOMENCLATURE

## \* HOW TO SPECIFY MODEL CODE



### SAMPLE SINGLE PUMP MODEL CODE

1	2	3	4	5	6	7
P	315	A	293	FW	AB 20	65
(P) PUMP / (M) MOTOR	SERIES 315/330/350/365	SINGLE UNIT	SHAFT END COVER SEE Page E2.6	PORT END COVER SEE Page E2.7	GEAR HOUSING SEE Page E2.8	DRIVE SHAFT SEE Page E2.9-E2.10

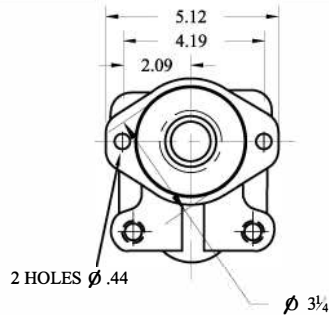


### SAMPLE TANDEM PUMP MODEL CODE

FIRST SECTION					ADDITIONAL SECTIONS				
1	2	3	4	5	6	7	8	9	10
P	350	B	498	EM	AB20	7	HP	AB17	1
(P) PUMP / (M) MOTOR	SERIES ... 315/330/350/365	TANDEM UNIT	SHAFT END COVER SEE Page E2.6	PORT END COVER SEE Page E2.7	FRONT GEAR HOUSING SEE Page E2.8	DRIVE SHAFT SEE Page E2.9-E2.10	BEARING CARRIER SEE Page E2.12-E2.13	BACK GEAR HOUSING SEE Page E2.8	CONNECTING SHAFT SEE Page E2.11

# P315/P330/P350/P365 SHAFT END COVER

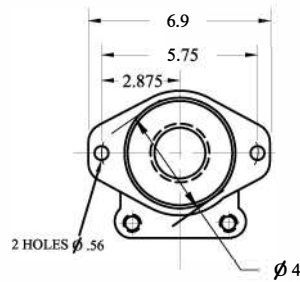
**CODE \*93/\*94**  
P315 / P330  
SAE A 2-BOLT



Front Flange	Shaft Rotation	OUTBOARD SHAFT BEARING	OPTIONAL 1/4 DRAIN	
P315	P330			
193	194	CW	WITHOUT	NONE(PUMP)
293	294	CCW	WITHOUT	NONE(PUMP)
393	394	DOUBLE	WITHOUT	NONE(PUMP)
not available	494	CW	WITH	NONE(PUMP)
	594	CCW	WITH	NONE(PUMP)
	694	DOUBLE	WITH	NONE(PUMP)
	894	DOUBLE	WITH	1 / 4NPT(MOTOR)
993	994	DOUBLE	WITHOUT	1/ 4 NPT(MOTOR)

P 315 SHAFT END COVER PART NUMBER	326-5129-201
P 330 SHAFT END COVER PART NUMBER	324-5123-204

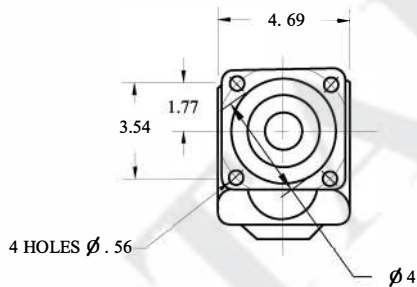
**CODE \*96/\*97**  
P315 / P330 / P350  
SAE B 2-BOLT



Front Flange	Shaft Rotation	OUTBOARD SHAFT BEARING	OPTIONAL 1/4 DRAIN	
P315	IP33(5)0			
196	197	CW	WITHOUT	NONE(PUMP)
296	297	CCW	WITHOUT	NONE(PUMP)
396	397	DOUBLE	WITHOUT	NONE(PUMP)
not available	497	CW	WITH	NONE(PUMP)
	597	CCW	WITH	NONE(PUMP)
	697	DOUBLE	WITH	NONE(PUMP)
	897	DOUBLE	WITH	1/ 4 NPT(MOTOR)
996	997	DOUBLE	WITHOUT	1/ 4 NPT(MOTOR)

P 315 SHAFT END COVER PART NUMBER	326-5129-203
P 330 SHAFT END COVER PART NUMBER	324-5123-201
P 350 SHAFT END COVER PART NUMBER	323-5123-201

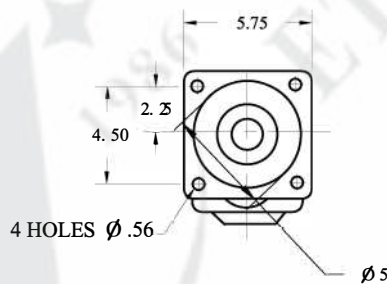
**CODE \*42**  
P330 / P350  
SAE B 4-BOLT



Front Flange	Shaft Rotation	OUTBOARD SHAFT BEARING	OPTIONAL 1/4 DRAIN
142	CW	WITHOUT	NONE(PUMP)
242	CCW	WITHOUT	NONE(PUMP)
342	DOUBLE	WITHOUT	NONE(PUMP)
442	CW	WITH	NONE(PUMP)
542	CCW	WITH	NONE(PUMP)
642	DOUBLE	WITH	NONE(PUMP)
842	DOUBLE	WITH	1 / 4NPT(MOTOR)
942	DOUBLE	WITHOUT	1/ 4 NPT(MOTOR)

P 330 SHAFT END COVER PART NUMBER	324-5133-201
P 350 SHAFT END COVER PART NUMBER	323-5133-201

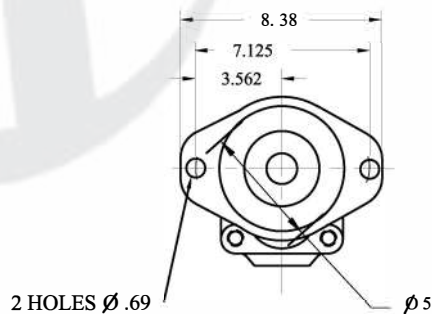
**CODE \*78**  
P330 / P350 / P365  
SAE C 4-BOLT



Front Flange	Shaft Rotation	OUTBOARD SHAFT BEARING	OPTIONAL 1/4 DRAIN
178	CW	WITHOUT	NONE(PUMP)
278	CCW	WITHOUT	NONE(PUMP)
378	DOUBLE	WITHOUT	NONE(PUMP)
478	CW	WITH	NONE(PUMP)
578	CCW	WITH	NONE(PUMP)
678	DOUBLE	WITH	NONE(PUMP)
878	DOUBLE	WITH	1/ 4 NPT(MOTOR)
978	DOUBLE	WITHOUT	1/ 4 NPT(MOTOR)

P 330 SHAFT END COVER PART NUMBER	324 5133 202N
P 350 SHAFT END COVER PART NUMBER	323 5133 202N
P 365 SHAFT END COVER PART NUMBER	322 5133 202N

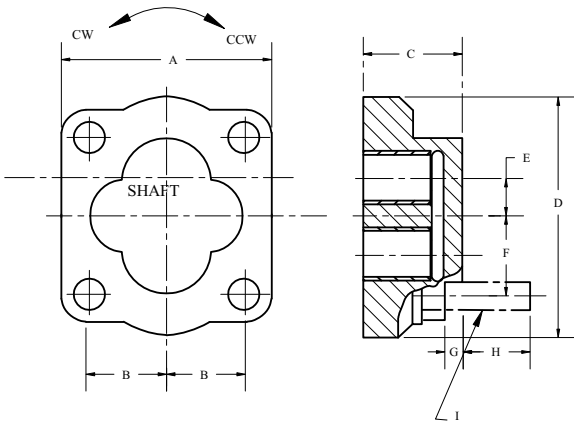
**CODE \*98**  
P350 / P365  
SAE C 2-BOLT



Front Flange	Shaft Rotation	OUTBOARD SHAFT BEARING	OPTIONAL 1/4 DRAIN
198	CW	WITHOUT	NONE(PUMP)
298	CCW	WITHOUT	NONE(PUMP)
398	DOUBLE	WITHOUT	NONE(PUMP)
498	CW	WITH	NONE(PUMP)
598	CCW	WITH	NONE(PUMP)
698	DOUBLE	WITH	NONE(PUMP)
898	DOUBLE	WITH	1 4 NPT(MOTOR)
998	DOUBLE	WITHOUT	1/ 4 NPT(MOTOR)

P 350 SHAFT END COVER PART NUMBER	323 5123 202N
P 365 SHAFT END COVER PART NUMBER	322 5123 202N

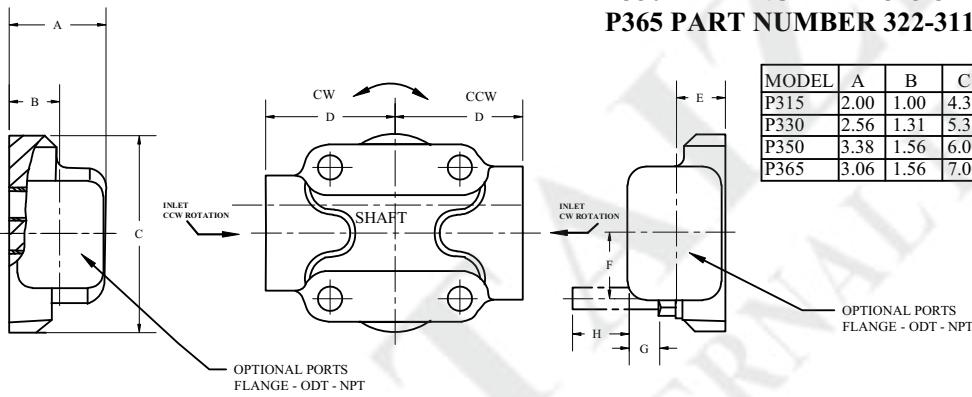
## P315/P330/P350/P365 PORT END COVERS



**PORT END COVER**  
**P315 PART NUMBER 326-3100-100**  
**P330 PART NUMBER 324-3100-100**  
**P350 PART NUMBER 323-3100-100**  
**P365 PART NUMBER 322-3100-100**

MODEL	A	B	C	D	E	F	G	H	I
P315	4.00	1.19	1.75	4.31	.75		.38	1.00-1.12	1/2-13UNC THD
P330	4.81	1.78	2.25	5.38	.88	1.78	.39	1.38-1.62	5/8-11NC-3 THD.
P350	5.75	1.78	2.25	6.00	1.00	1.78	.39	1.38-1.62	5/8-11NC-3 THD.
P365	6.25	2.12	2.62	7.00	1.12	2.12	.39	1.25-1.50	5/8-11NC-3 THD.

**PORT END COVER**  
**P315 PART NUMBER 326-3110-100**  
**P330 PART NUMBER 324-3110-100**  
**P350 PART NUMBER 323-3110-100**  
**P365 PART NUMBER 322-3110-100**



MODEL	A	B	C	D	E	F	G	H
P315	2.00	1.00	4.31	2.12	1.00			
P330	2.56	1.31	5.38	3.44	1.31	1.78	.70	1.25-1.56
P350	3.38	1.56	6.00	3.56	1.56	1.78	.11	1.25-1.56
P365	3.06	1.56	7.00	3.69	1.56	2.12	.83	1.31-1.44

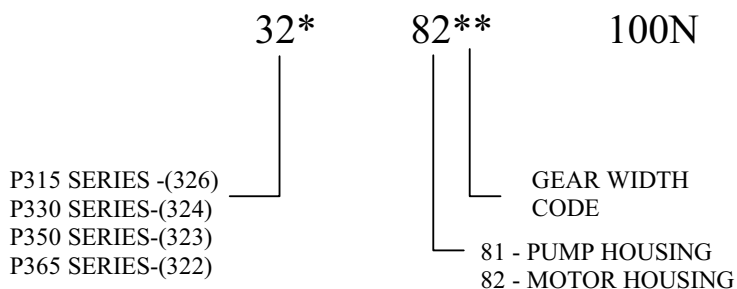
### PORT END COVER PORTING CODES (SIDE PORTED UNITS)

PORT SIZE		SPLIT FLANGE IP3150		OD TUBE PORTING IP3150	
IN	OUT	C W PORT	CCW PORT	C W PORT	CCW PORT
1 1/4	1	-	-	FB	BF
1 1/4	7/8	-	-	FC	CF
1 1/4	3/4	-	-	FG	GF
1 1/4	5/8	-	-	FJ	JF
1	1	-	-	FL	LF
1	7/8	-	-	FV	VF
1	3/4	EJ	JE	FW	WF
1	5/8	-	-	FX	XF
1	1/2	EK	KE	FY	YF
7/8	7/8	-	-	FZ	ZF
7/8	3/4	-	-	BC	CB
7/8	5/8	-	-	BG	GB
7/8	1/2	-	-	BJ	JB
3/4	3/4	EL	LE	BL	LB
3/4	5/8	-	-	BN	NB
3/4	1/2	EM	ME	BV	VB
1 1/4	-	-	-	BW	WB
1	-	OE	EO	BX	XB
7/8	-	-	-	BY	YB
3/4	-	OF	FO	BZ	ZB
-	1	-	-	PD	DP
-	7/8	-	-	PE	EP
-	3/4	OJ	JO	PM	MP
-	5/8	-	-	PN	NP
-	1/2	OL	LO		

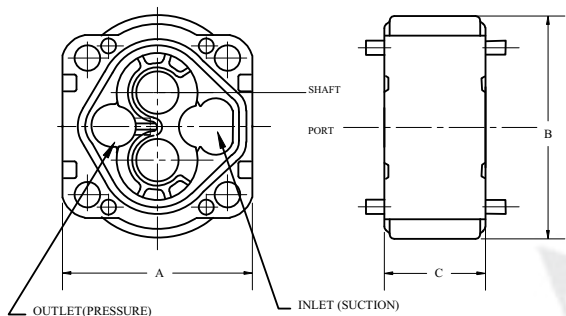
PORT SIZE		SPLIT FLANGE				OD TUBE PORTING			
IN	OUT	IP3300		IF3500/3650		IP3300		IF3500/3650	
IN	OUT	C W PORT	CCW PORT	C W PORT	CCW PORT	C W PORT	CC W PORT	C W PORT	CC W PORT
2	1 1/2	-	-	EC	CE	-	-	-	-
2	1 1/4	-	-	EF	FE	-	-	-	-
2	1	-	-	EG	GE	-	-	-	-
1 1/2	1 1/2	-	-	EH	HE	-	-	-	-
1 1/2	1 1/4	EJ	JE	EJ	JE	-	-	FB	BF
1 1/2	1	EK	KE	EK	KE	-	-	FC	CF
1 1/4	1 1/4	EL	LE	EL	LE	-	-	-	-
1 1/4	1	EM	ME	EM	ME	-	-	FG	GF
1	1	EN	NE	EN	NE	FJ	JF	FJ	JF
2	-	-	-	EO	EO	FL	LF	FL	LF
1 1/2	-	OF	FO	OF	FO	-	-	BC	CB
1 1/4	-	OG	GO	OG	GO	BG	GB	BG	GB
1	-	OJ	JO	OJ	JO	BJ	JB	BJ	JB
-	1 1/2	OL	LO	OL	LO	-	-	BL	LB
-	1 1/4	OM	MO	OM	MO	-	-	-	-
-	1	ON	NO	ON	NO	BN	NB	BN	NB

## P315/P330/P350/P365 GEAR HOUSINGS

### GEAR HOUSING PART NUMBER NOMENCLATURE



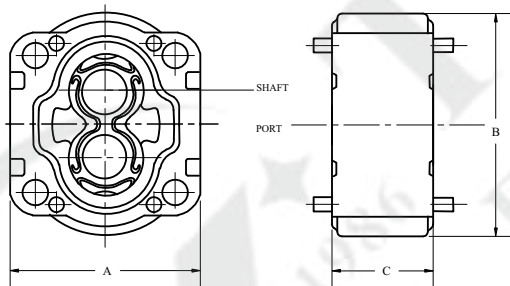
#### PUMP GEAR HOUSING



#### PUMP GEAR HOUSING PART NUMBER

Housing	PART NUMBER			
	P315	P330	P350	P365
05	326-8105-100	324-8105-100	323-8105-100	322-8105-100
07	326-8107-100	324-8107-100	323-8107-100	322-8107-100
10	326-8110-100	324-8110-100	323-8110-100	322-8110-100
12	326-8112-100	324-8112-100	323-8112-100	322-8112-100
15	326-8115-100	324-8115-100	323-8115-100	322-8115-100
17	326-8117-100	324-8117-100	323-8117-100	322-8117-100
20	326-8120-100	324-8120-100	323-8120-100	322-8120-100
22			323-8122-100	322-8122-100
25			323-8125-100	322-8125-100

#### MOTOR GEAR HOUSING



#### MOTOR GEAR HOUSING PART NUMBER

Housing	PART NUMBER			
	M315	M330	P350	P365
05	326-8205-100	324-8205-100	323-8205-100	322-8205-100
07	326-8207-100	324-8207-100	323-8207-100	322-8207-100
10	326-8210-100	324-8210-100	323-8210-100	322-8210-100
12	326-8212-100	324-8212-100	323-8212-100	322-8212-100
15	326-8215-100	324-8215-100	323-8215-100	322-8215-100
17	326-8217-100	324-8217-100	323-8217-100	322-8217-100
20	326-8220-100	324-8220-100	323-8220-100	322-8220-100
22			323-8222-100	322-8222-100
25			323-8225-100	322-8225-100

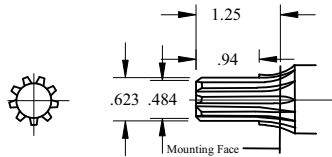
### GEAR HOUSING DIMENSIONS

HOUSING	P315	P330	P350	P365
A=	4.19	4.81	5.75	6.25
B=	4.75	5.88	6.00	7.25
Thrust Plate	0.40	0.50	0.50	0.50
C=gear width +Thrust Plate				
DISPLACEMENT in <sup>3</sup> /rev				
05	.92	1.00	1.00	//
07	1.14	1.25	1.25	1.25
10	1.40	1.50	1.50	1.50
12	1.64	1.75	1.75	1.75
15	1.90	2.00	2.00	2.00
17	2.14	2.25	2.25	2.25
20	2.40	2.50	2.50	2.50
22	//	//	2.75	2.75
25	//	//	3.00	3.00

## P315/P330/P350/P365 SPLINE - SHAFT/SHAFT&GEAR ASSEMBLIES

### CODE 95

SAE "A" SPLINE  $\frac{5}{8}$  - 9 TOOTH -ANSI 16-4

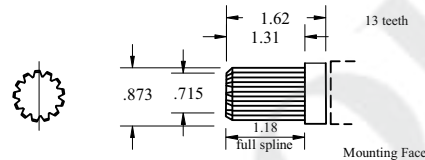


DEAR WIDTH CODE	DEAR WIDTH CODE	P315 SHAFT & GEAR PART NUMBER	P330 SHAFT & GEAR PART NUMBER	P350 SHAFT & GEAR PART NUMBER	P365 SHAFT & GEAR PART NUMBER
05	$\frac{1}{2}$ "	326-2905-320N			
07	$\frac{3}{4}$ "	326-2907-320N	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
10	1"	326-2910-320N			
12	$1\frac{1}{4}$ "	326-2912-320N			
15	$1\frac{1}{2}$ "	326-2915-320N	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
17	$1\frac{3}{4}$ "				
20	2"				

P 315 ONE PIECE SHAFT	NOT AVAILABLE
P 330 ONE PIECE SHAFT	NOT AVAILABLE
P 350 ONE PIECE SHAFT	NOT AVAILABLE
P 365 ONE PIECE SHAFT	NOT AVAILABLE

### CODE 25

SAE "B" SPLINE  $\frac{7}{8}$  - 13 TOOTH -ANSI 122-4

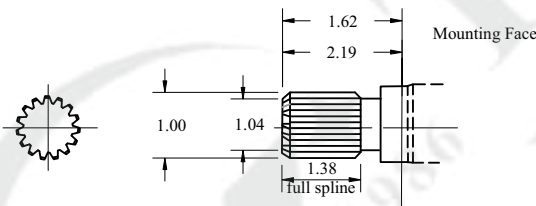


DEAR WIDTH CODE	DEAR WIDTH CODE	P315 SHAFT & GEAR PART NUMBER	P330 SHAFT & GEAR PART NUMBER	P350 SHAFT & GEAR PART NUMBER	P365 SHAFT & GEAR PART NUMBER
05	$\frac{1}{2}$ "	326-2905-330N	//		
07	$\frac{3}{4}$ "	326-2907-330N	324-2907-230N	//	
10	1"	326-2910-330N	324-2910-230N	//	
12	$1\frac{1}{4}$ "	326-2912-330N	324-2912-230N	323-2912-230N	NOT AVAILABLE
15	$1\frac{1}{2}$ "	326-2915-330N	324-2915-230N	323-2915-230N	NOT AVAILABLE
17	$1\frac{3}{4}$ "	326-2917-330N	324-2917-230N	323-2917-230N	NOT AVAILABLE
20	2"	326-2920-330N	324-2920-230N	323-2920-230N	NOT AVAILABLE
22	$2\frac{1}{4}$ "	//		323-2922-230N	
25	$2\frac{1}{2}$ "	//		323-2925-230N	

P 315 ONE PIECE SHAFT	NOT AVAILABLE
P 330 ONE PIECE SHAFT	324-1000-300N
P 350 ONE PIECE SHAFT	323-1000-300N
P 365 ONE PIECE SHAFT	322-1000-300N

### CODE 98

SAE "BB" SPLINE 1 - 15 TOOTH -ANSI 25-4

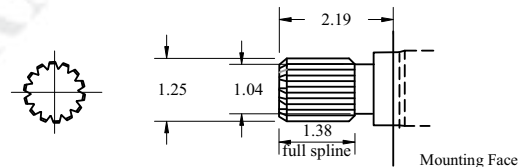


DEAR WIDTH CODE	DEAR WIDTH CODE	P315 SHAFT & GEAR PART NUMBER	P330 SHAFT & GEAR PART NUMBER	P350 SHAFT & GEAR PART NUMBER	P365 SHAFT & GEAR PART NUMBER
05	$\frac{1}{2}$ "		//		
07	$\frac{3}{4}$ "	NOT AVAILABLE		//	
10	1"		324-2910-240N	//	
12	$1\frac{1}{4}$ "	NOT AVAILABLE	324-2912-240N	323-2912-240N	NOT AVAILABLE
15	$1\frac{1}{2}$ "		324-2915-240N	323-2915-240N	
17	$1\frac{3}{4}$ "		324-2917-240N	323-2917-240N	
20	2"		324-2920-240N	323-2920-240N	
22	$2\frac{1}{4}$ "		//	323-2922-240N	
25	$2\frac{1}{2}$ "		//	323-2925-240N	

P 315 ONE PIECE SHAFT	NOT AVAILABLE
P 330 ONE PIECE SHAFT	NOT AVAILABLE
P 350 ONE PIECE SHAFT	NOT AVAILABLE
P 365 ONE PIECE SHAFT	NOT AVAILABLE

### CODE 07

SAE "C" SPLINE  $1\frac{1}{4}$  - 14 TOOTH -ANSI 32-4



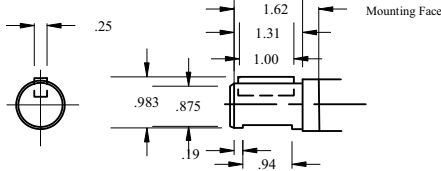
DEAR WIDTH CODE	DEAR WIDTH CODE	P315 SHAFT & GEAR PART NUMBER	P330 SHAFT & GEAR PART NUMBER	P350 SHAFT & GEAR PART NUMBER	P365 SHAFT & GEAR PART NUMBER
05	$\frac{1}{2}$ "			//	//
07	$\frac{3}{4}$ "			//	//
10	1"			//	//
12	$1\frac{1}{4}$ "	NOT AVAILABLE	NOT AVAILABLE	323-2912-250N	322-2912-250N
15	$1\frac{1}{2}$ "			323-2915-250N	322-2915-250N
17	$1\frac{3}{4}$ "			323-2917-250N	322-2917-250N
20	2"	NOT AVAILABLE	NOT AVAILABLE	323-2920-250N	322-2920-250N
22	$2\frac{1}{4}$ "			323-2922-250N	322-2922-250N
25	$2\frac{1}{2}$ "			323-2925-250N	322-2925-250N
27	$2\frac{3}{4}$ "			//	322-2927-250N
30	3"			//	322-2930-250N

P 315 ONE PIECE SHAFT	NOT AVAILABLE
P 330 ONE PIECE SHAFT	324-1000-500N
P 350 ONE PIECE SHAFT	323-1000-500N
P 365 ONE PIECE SHAFT	322-1000-500N

# P315/P330/P350/P356 KEYED- SHAFT / SHAFT GEAR ASSEMBLIES

## CODE 30

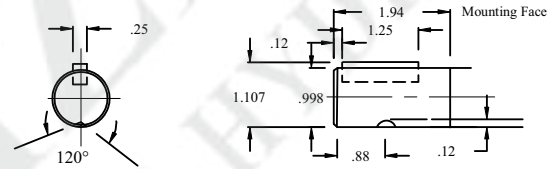
SAE "B" KEYED  $\frac{7}{8}$  Ø  $\frac{1}{4}$  KEY -ANSI 22-4



DEAR WIDTH CODE	DEAR WIDTH INCHES	P315 SHAFT & GEAR PART NUMBER	P330 SHAFT & GEAR PART NUMBER	P350 SHAFT & GEAR PART NUMBER	P365 SHAFT & GEAR PART NUMBER
05	$\frac{1}{2}$ "	326-2905-930			
07	$\frac{3}{4}$ "	326-2907-930			
10	1"	326-2910-930			
12	$1\frac{1}{4}$ "	326-2912-930	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
15	$1\frac{1}{2}$ "	326-2915-930	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
17	$1\frac{3}{4}$ "	326-2917-930	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
20	2"	326-2920-930	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

P 315 ONE PIECE SHAFT	NOT AVAILABLE
P 330 ONE PIECE SHAFT	324-1000-300N
P 350 ONE PIECE SHAFT	NOT AVAILABLE
P 365 ONE PIECE SHAFT	NOT AVAILABLE

## CODE 43 - KEYED $1\frac{1}{4}$ Ø $\frac{1}{4}$ KEY - ANSI 25-1

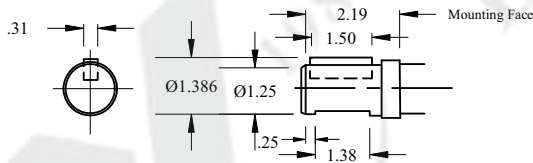


DEAR WIDTH CODE	DEAR WIDTH INCHES	P315 SHAFT & GEAR PART NUMBER	P330 SHAFT & GEAR PART NUMBER	P350 SHAFT & GEAR PART NUMBER	P365 SHAFT & GEAR PART NUMBER
05	$\frac{1}{2}$ "				
07	$\frac{3}{4}$ "		//		
10	1"	NOT AVAILABLE	324-2910-740	NOT AVAILABLE	NOT AVAILABLE
12	$1\frac{1}{4}$ "	NOT AVAILABLE	324-2912-740	NOT AVAILABLE	NOT AVAILABLE
15	$1\frac{1}{2}$ "	NOT AVAILABLE	324-2915-740	NOT AVAILABLE	NOT AVAILABLE
17	$1\frac{3}{4}$ "	NOT AVAILABLE	324-2917-740	NOT AVAILABLE	NOT AVAILABLE
20	2"	NOT AVAILABLE	324-2920-740	NOT AVAILABLE	NOT AVAILABLE

P 315 ONE PIECE SHAFT	NOT AVAILABLE
P 330 ONE PIECE SHAFT	324-1500-300N
P 350 ONE PIECE SHAFT	NOT AVAILABLE
P 365 ONE PIECE SHAFT	NOT AVAILABLE

## CODE 11

SAE "C" KEYED  $1\frac{1}{4}$  Ø  $\frac{5}{16}$  KEY -ANSI 32-1



DEAR WIDTH CODE	DEAR WIDTH INCHES	P315 SHAFT & GEAR PART NUMBER	P330 SHAFT & GEAR PART NUMBER	P350 SHAFT & GEAR PART NUMBER	P365 SHAFT & GEAR PART NUMBER
05	$\frac{1}{2}$ "			//	
07	$\frac{3}{4}$ "			//	
10	1"			//	
12	$1\frac{1}{4}$ "	NOT AVAILABLE	NOT AVAILABLE	323-2912-750	NOT AVAILABLE
15	$1\frac{1}{2}$ "	NOT AVAILABLE	NOT AVAILABLE	323-2915-750	NOT AVAILABLE
17	$1\frac{3}{4}$ "	NOT AVAILABLE	NOT AVAILABLE	323-2917-750	NOT AVAILABLE
20	2"	NOT AVAILABLE	NOT AVAILABLE	323-2920-750	NOT AVAILABLE
22	$2\frac{1}{4}$ "	NOT AVAILABLE	NOT AVAILABLE	323-2922-750	NOT AVAILABLE
25	$2\frac{1}{2}$ "	NOT AVAILABLE	NOT AVAILABLE	323-2925-750	NOT AVAILABLE

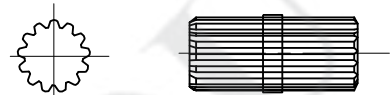
P 315 ONE PIECE SHAFT	NOT AVAILABLE
P 330 ONE PIECE SHAFT	NOT AVAILABLE
P 350 ONE PIECE SHAFT	323-1500-500
P 365 ONE PIECE SHAFT	322-1500-500

# P315/P330/P350/P365 MATCHED GEARS / CONNECTING SHAFTS

## MATCHED GEAR SET

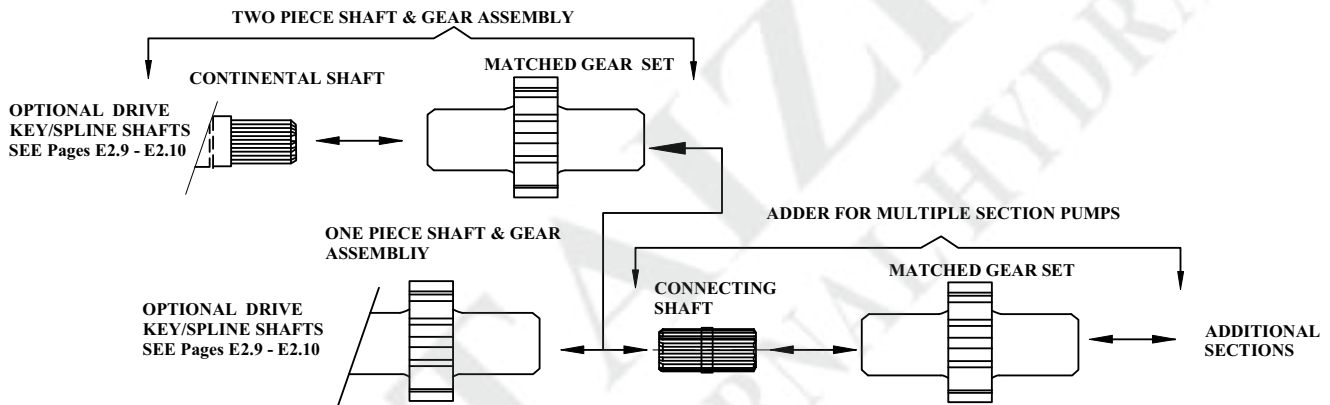


## CODE 1 CONNECTING SHAFT



GEAR WIDTH CODE	GEAR WIDTH INCHES	P315 SHAFT & GEAR PART NUMBER	P330 SHAFT & GEAR PART NUMBER	P350 SHAFT & GEAR PART NUMBER	P365 SHAFT & GEAR PART NUMBER
05	1/2"	326-2805-000	324-2805-000	//	//
07	3/4"	326-2807-000	324-2807-000	323-2807-000	322-2807-000
10	1"	326-2810-000	324-2810-000	323-2810-000	322-2810-000
12	1 1/4"	326-2812-000	324-2812-000	323-2812-000	322-2812-000
15	1 1/2"	326-2815-000	324-2815-000	323-2815-000	322-2815-000
17	1 3/4"	326-2817-000	324-2817-000	323-2817-000	322-2817-000
20	2"	326-2820-000	324-2820-000	323-2820-000	322-2820-000
22	2 1/4"			323-2822-000	322-2822-000
25	2 1/2"			323-2825-000	322-2825-000

P 315 CONNECTING SHAFT	326 - 1133 - 001
P 330 CONNECTING SHAFT	324 - 1133 - 001
P 350 CONNECTING SHAFT	323 - 1133 - 001
IP 365 CONNECTING SHAFT	322 - 1133 - 001



### SHAFT & GEAR PART NUMBER NOMENCLATURE

32\* - 29\*\* - xxx N

### MATCHED GEAR PART NUMBER NOMENCLATURE

32\* - 28\*\* - 000 N

326-P315 SERIES  
324-P330 SERIES  
323-P350 SERIES  
322-P365 SERIES

GEAR WIDTH CODE	GEAR WIDTH INCHES	GEAR WIDTH CODE	GEAR WIDTH INCHES
05	1/2"	20	2"
07	3/4"	22	2 1/4"
10	1"	25	2 1/2"
12	1 1/4"		
15	1 1/2"		
17	1 3/4"		

DRIVE SHAFT CODE
122 - 3/8" Ø - 9TH SPLINE
230 - 7/8" Ø - 13TH SPLINE
250 - 1 1/4" Ø - 15TH SPLINE
730 - 7/8" Ø - 1/4" KEYED
740 - 1" Ø - 1/4" KEYED
750 - 1 1/4" Ø - 3/16" KEYED

326-P315 SERIES  
324-P330 SERIES  
323-P350 SERIES  
322-P365 SERIES

GEAR WIDTH CODE	GEAR WIDTH INCHES	GEAR WIDTH CODE	GEAR WIDTH INCHES
05	1/2"	20	2"
07	3/4"	22	2 1/4"
10	1"	25	2 1/2"
12	1 1/4"		
15	1 1/2"		
17	1 3/4"		

PL CHART		
SHAFT STYLE	INTEGRAL SHAFT&GEAR	TWO PIECE STYLE
<b>P315</b>		
SAE "A" SPLINE (up to 1.25" GW)	4,450	--
SAE "A" KEY	3,600	--
SAE "B" SPLINE	13,400	--
SAE "B" KEY	9,900	--
CONNECTING SHAFT	--	5,550
<b>P330</b>		
SAE "B" SPLINE	8,450	6,250
SAE "B" KEY	6,250	6,250
SAE "B-B" SPLINE	13,000	6,250
SAE "B-B" KEY	9,300	6,250
SAE "C" SPLINE	--	6,250
SAE "C" KEY	--	6,250
CONNECTING SHAFT	--	6,250

PL CHART		
SHAFT STYLE	INTEGRAL SHAFT&GEAR	TWO PIECE STYLE
<b>P350</b>		
SAE "B" SPLINE	6,450	6,450
SAE "B" KEY	4,750	4,750
SAE "B-B" SPLINE	9,900	9,000
SAE "B-B" KEY	7,100	7,100
SAE "C" SPLINE	19,100	9,000
SAE "C" KEY	13,900	9,000
CONNECTING SHAFT	--	9,000
<b>P365</b>		
SAE "B" SPLINE	5,050	5,050
SAE "B" KEY	3,700	3,700
SAE "B-B" SPLINE	7,750	7,750
SAE "B-B" KEY	5,550	5,550
SAE "C" SPLINE	14,900	11,950
SAE "C" KEY	10,800	11,950
CONNECTING SHAFT	--	11,950

### PL FACTOR

Each section of a multiple pump or motor should be regarded as a single unit with corresponding delivery and power input requirements. Since the entire input horsepower is fed through a common drive shaft, the power delivered to or from the unit is limited by the physical strength of the shaft. This limit is defined as "PL" factor; "P" being the operating pressure and "L" the summation of gear widths.

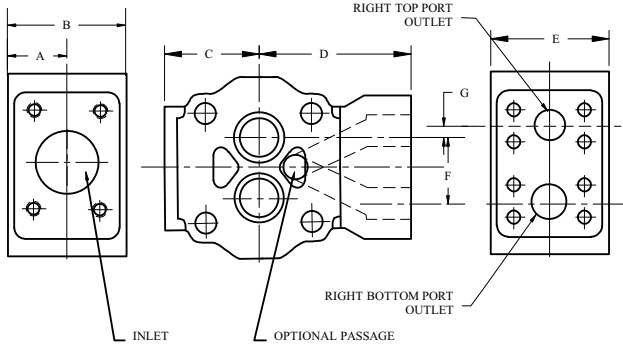
In multiple units the "PL" must be calculated for the first connecting shaft as well as the drive shaft. Each style or type of shaft has a unique "PL" factor as noted in the table below.

Pressure X total gear width = PL

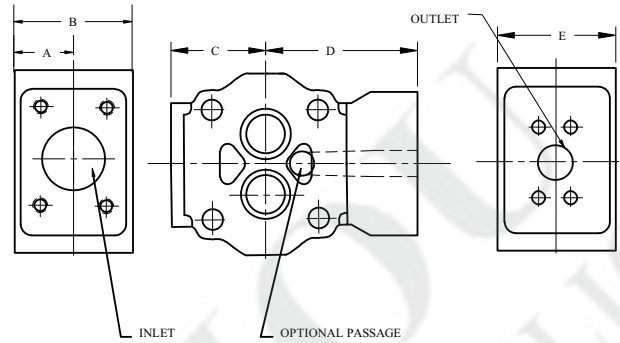
PL must not exceed number shown in Chart for appropriate shaft

## P315/P330/P350/P365 BEARING CARRIERS

DOUBLE OUTLET BEARING CARRIER



SINGLE OUTLET BEARING CARRIER



BEARING CARRIER								DOUBLE OUTLET BEARING CARRIER	SINGLE OUTLET BEARING CARRIER
PART NUMBER	"A"	"B"	"C"	"D"	"E"	"F"	"G"		
P315	1.31	2.62	2.38	2.88	2.62	1.84	.34	326-7800-100	326-7600-100
P330	1.75	3.50	3.09	3.69	3.50	2.00	.25	324-7800-100	324-7600-100
P350	1.75	3.50	3.69	3.69	3.50	2.50	.50	323-7800-100	323-7600-100
P365	2.00	4.00	3.69	4.69	4.00	2.62	.38	322-7800-100	322-7600-100

**(P330/P350/P365 DOUBLE OUTLET) BEARING CARRIER**

**R PART CODE**

Outlets: for clockwise porting the top port number comes first;  
 for counter-clockwise porting the bottom port number comes first.


SECTION VIEW A-A C.W. ROT.	PORT SIZE			SPLIT FLANGE BEARING CARRIER CODE		PORT SIZE			O.D.T THREAD BEARING CARRIER CODE	
	IN	OUT	OUT	C.W. ROT.	C.C.W. ROT.	IN	OUT	OUT	C.W. ROT.	C.C.W. ROT.
	2 1/2	1 1/2	1 1/2	AC	CA	2	1 1/2	1 1/2	GJ	JG
	2 1/2	1 1/2	1 1/4	AD	DA	2	1 1/2	1 1/4	GK	KG
	2 1/2	1 1/2	1	AE	EA	2	1 1/2	1	GL	LG
	2 1/2	1 1/4	1 1/4	AF	FA	2	1 1/4	1 1/4	GM	MG
	2 1/2	1 1/4	1	AG	GA	2	1 1/4	1	GN	NG
	2 1/2	1	1	AH	HA	2	1	1	GP	PG
	2	1 1/2	1 1/2	AJ	JA	1 1/2	1 1/2	1 1/2	GQ	QG
	2	1 1/2	1 1/4	AK	KA	1 1/2	1 1/2	1 1/4	GR	RG
	2	1 1/2	1	AL	LA	1 1/2	1 1/2	1	GS	SG
	2	1 1/4	1 1/4	AM	MA	1 1/2	1 1/4	1 1/4	GT	TG
	2	1 1/4	1	AN	NA	1 1/2	1 1/4	1	GU	UG
	2	1	1	AP	PA	1 1/2	1	1	GV	VG
	1 1/2	1 1/2	1 1/2	AQ	QA	1 1/4	1 1/4	1 1/4	GW	WG
	1 1/2	1 1/2	1 1/4	AR	RA	1 1/4	1 1/4	1	GX	XG
	1 1/2	1 1/2	1	AS	SA	1 1/4	1	1	GY	YG
	1 1/2	1 1/4	1 1/4	AT	TA	1	1	1	GZ	ZG
	1 1/2	1 1/4	1	AU	UA					
	1 1/2	1	1	AV	VA					
	1 1/4	1 1/4	1 1/4	AW	WA					
	1 1/4	1 1/4	1	AX	XA					
	1 1/4	1	1	AY	YA					
	1	1	1	AZ	ZA					



## P315/P330/P350/P365 BEARING CARRIERS


### BEARING CARRIER PART CODE (P330/P350/P365 SINGLE OUTLET)

Outlet for front section.

SECTION VIEW A-A C.W. ROT.	PORT SIZE		SPLIT FLANGE		PORT SIZE		O.D.T THREAD	
	IN	OUT	BEARING CARRIER CODE C.W. ROT.	BEARING CARRIER CODE C.C.W. ROT.	IN	OUT	BEARING CARRIER CODE C.W. ROT.	BEARING CARRIER CODE C.C.W. ROT.
Inlet  Outlet	2	1 1/2	HB	BH	2	1 1/2	KB	BK
	2	1 1/4	HC	CH	2	1 1/4	KC	CK
	2	1	HF	FH	2	1	KF	FK
	1 1/2	1 1/2	HL	HL	1 1/2	1 1/2	KL	LK
	1 1/2	1 1/4	HM	MH	1 1/2	1 1/4	KM	MK
	1 1/2	1	HN	NH	1 1/2	1	KN	NK
	1 1/4	1 1/4	HO	OH	1 1/4	1 1/4	KO	OK
	1 1/4	1	HP	PH	1 1/4	1	KP	PK
	1	1	HQ	QH	1	1	KQ	QK

### BEARING CARRIER PART CODE (P315 SINGLE OUTLET)


Outlet for front section.

SECTION VIEW A-A C.W. ROT.	PORT SIZE		SPLIT FLANGE		PORT SIZE		O.D.T THREAD	
	IN	OUT	BEARING CARRIER CODE C.W. ROT.	BEARING CARRIER CODE C.C.W. ROT.	IN	OUT	BEARING CARRIER CODE C.W. ROT.	BEARING CARRIER CODE C.C.W. ROT.
Inlet  Outlet	1 1/4	1 1/4	CJ	JC	1 1/2	1 1/2	KB	BK
	1 1/4	1	CL	LC	1 1/2	1 1/4	KC	CK
	1 1/4	3/4	CM	MC	1 1/2	1	KF	FK
	1 1/4	1/2	HB	BH	1 1/2	3/4	KM	MK
	1	1	HC	CH	1 1/4	1 1/4	KN	NK
	1	3/4	HF	FH	1 1/4	1	KO	OK
	1	1/2	HL	LH	1 1/4	3/4	KQ	QK
	3/4	3/4	HM	MH	1 1/4	1/2	ML	LM
	3/4	1/2	HN	NH	1	1	MN	NM
					1	3/4	MR	RM
					1	1/2	MT	TM
					3/4	3/4	MU	UM
					3/4	1/2	MW	WM

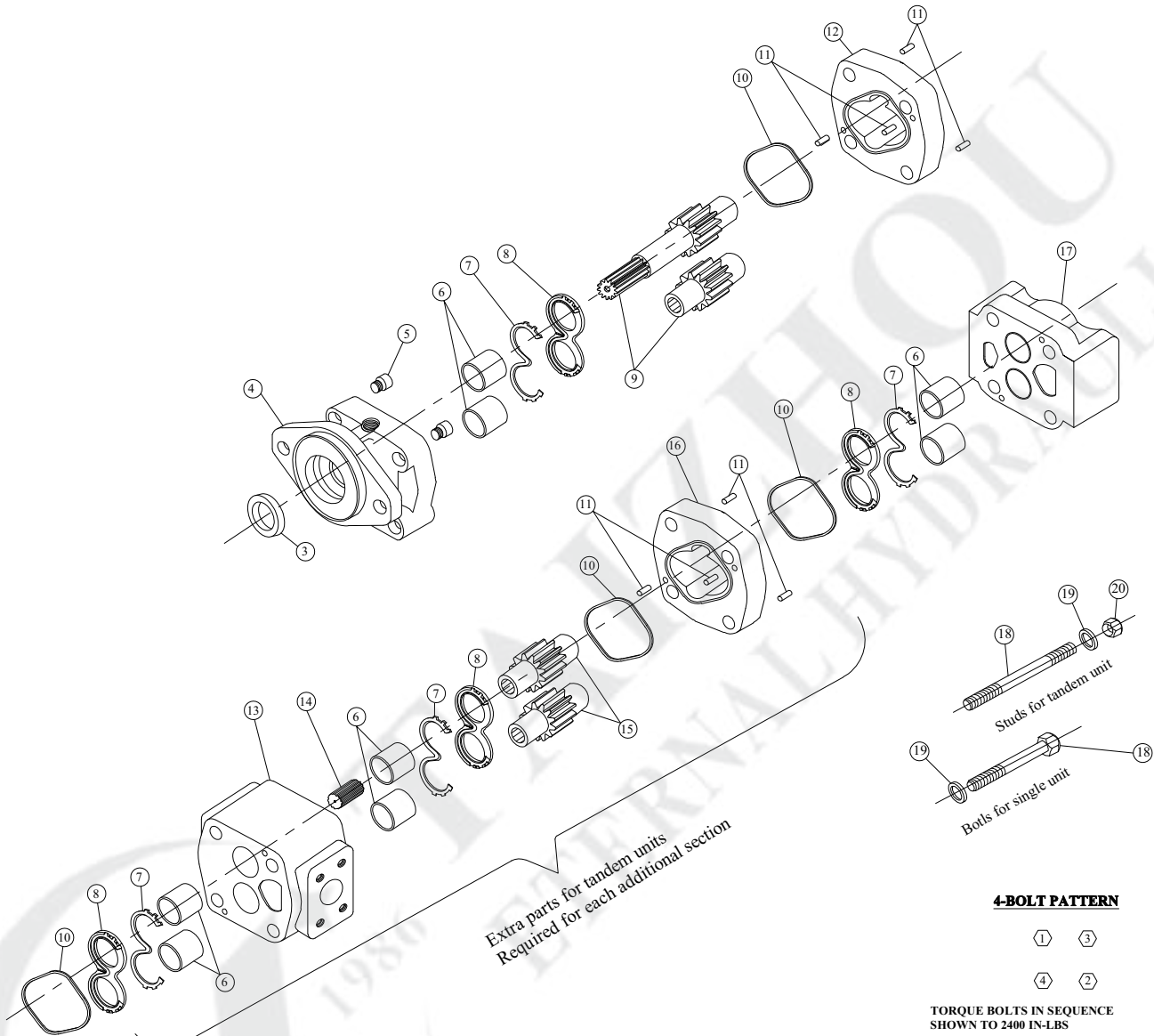
### BEARING CARRIER PART CODE (P315 DOUBLE OUTLET)

Outlets: for clockwise porting the top port number comes first;

for counter-clockwise porting the bottom port number comes first.

SECTION VIEW A-A C.W. ROT.	PORT SIZE			SPLIT FLANGE		PORT SIZE			O.D.T THREAD	
	IN	OUT	OUT	BEARING CARRIER CODE C.W. ROT.	BEARING CARRIER CODE C.C.W. ROT.	IN	OUT	OUT	BEARING CARRIER CODE C.W. ROT.	BEARING CARRIER CODE C.C.W. ROT.
Inlet  Outlet #1 Outlet #2	1 1/4	3/4	3/4	CA	AC	1 1/2	1	1	JG	GJ
	1 1/4	3/4	1/2	DA	AD	1 1/2	1	3/4	MG	GM
	1 1/4	1/2	1/2	EA	AE	1 1/2	3/4	3/4	NG	GN
	1	3/4	3/4	FA	AF	1 1/4	1	1	PG	GP
	1	3/4	1/2	GA	AG	1 1/4	1	3/4	SG	GS
	1 1/4	1/2	1/2	HA	AH	1 1/4	3/4	3/4	TG	GT
						1 1/4	3/4	1/2	VG	GV
						1 1/4	1/2	1/2	XG	GX
						1	1	1	YG	GY
						1	1	3/4	SC	CS

## P315 PUMPS SERVICE PARTS INFORMATION



### DESCRIPTION & CODES

ITEM	DESCRIPTION	REQ'S	PART NO.	ITEM	DESCRIPTION	REQ'S	PART NO.
1				11	DOWEL PINS	4 or more	391-2682-071
2				12	GEAR HOUSING	1	326-81xx-100
3	SEAL	1	391-2883-151	13	BEARING CARRIER	1	326-7xxx-100
4	SHAFT END COVER	1	326-5xxx-xxx	14	CONNECTING SHAFT	1	326-1133-100
5	PLUG	4	391-2886-004	15	MATCHED GEAR SET	1	326-28xx-000
6	BUSHINGS	4 or more	391-0482-195	16	GEAR HOUSING	1	326-81xx-100
7	CHANNEL SEAL	4 or more	391-2881-871	17	PORT END COVER	1	326-3xxx-100
8	THRUST PLATES	4 or more	391-2185-963	18	CAP SCREWS & STUDS	4	xx-BOLTS-xx
9	INTEGRAL DRIVE SHAFT AND GEAR SET	1	326-29xx-xxx 326-28xx-xxx	19	WASHERS	4	
10	GASKET SEAL	1 or more	391-2884-968	20	NUT	4	

#### 4-BOLT PATTERN

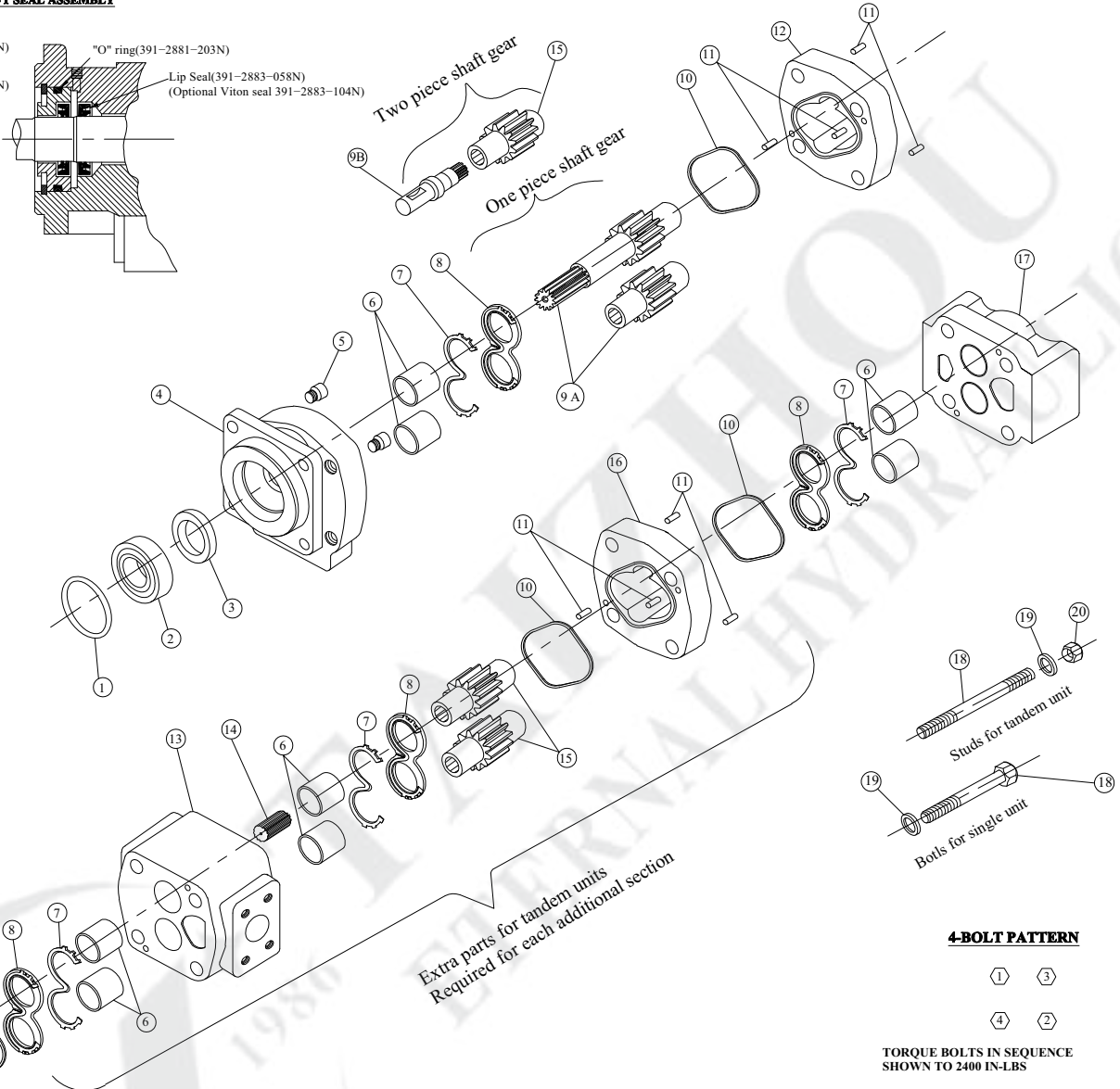


TORQUE BOLTS IN SEQUENCE  
 SHOWN TO 2400 IN-LBS

# P330 PUMPS SERVICE PARTS INFORMATION

## DOUBLE SHAFT SEAL ASSEMBLY

Lip seal  
(391-2883-057N)  
Seal Retainer  
(391-2584-037N)



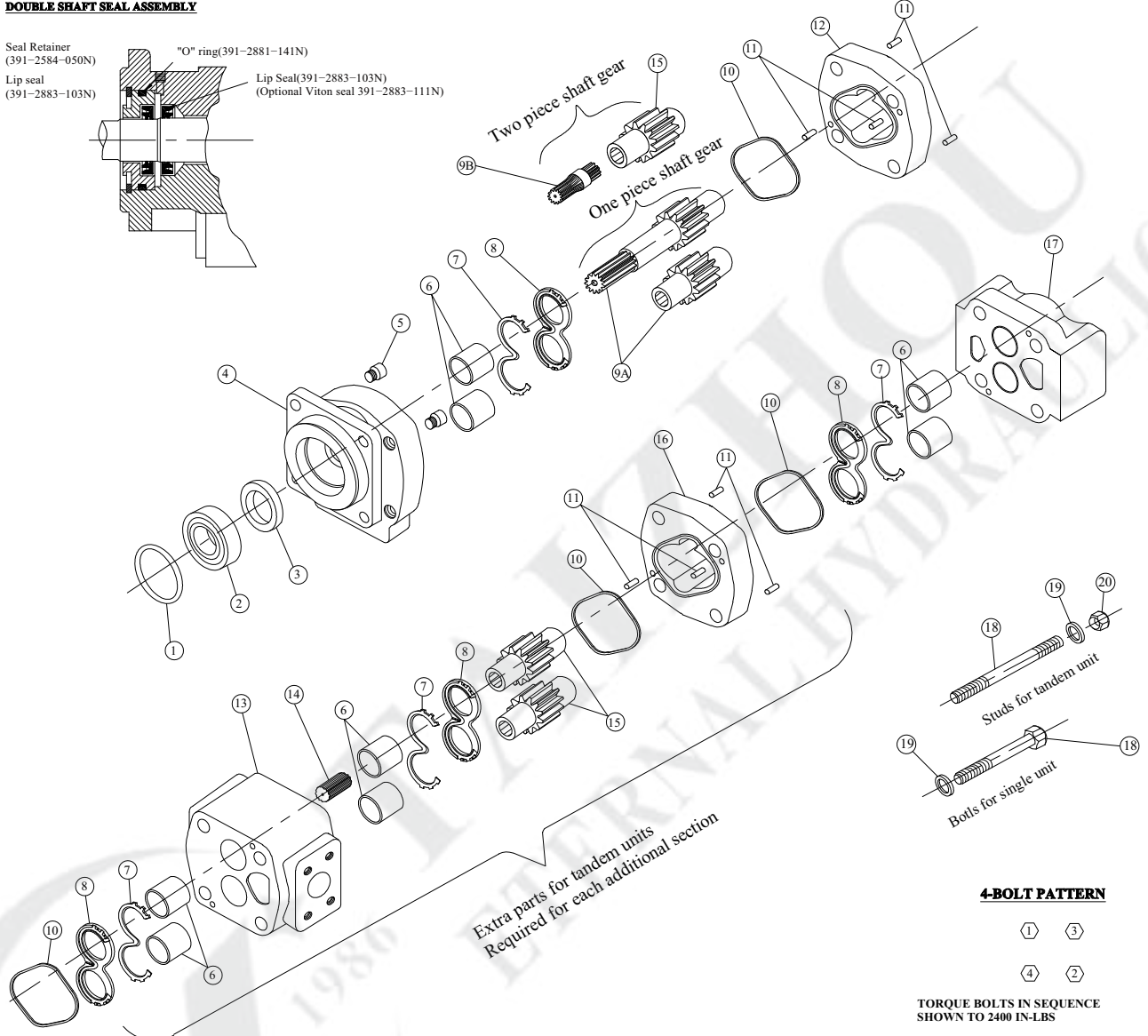
### DESCRIPTION & CODES

ITEM	DESCRIPTION	REQ'S	PART NO.	ITEM	DESCRIPTION	REQ'S	PART NO.
1	SNAP RING	1	391-2686-063	11	DOWEL PINS	4 or more	391-2082-032
2	OUTBOARD BEARING	1	391-0381-040	12	GEAR HOUSING	1	324-81xx-100
3	SEAL	1	391-2883-058	13	BEARING CARRIER	1	324-7xxx-100
4	SHAFT END COVER	1	324-5xxx-xxx	14	CONNECTING SHAFT	1	324-1133-001
5	PLUG	2	391-2286-004	15	MATCHED GEAR SET	1	324-28xx-000
6	BUSHINGS	4 or more	391-0482-306	16	GEAR HOUSING	1	324-81xx-100
7	CHANNEL SEAL	4 or more	391-2885-065	17	PORT END COVER	1	324-3xxx-100
8	THRUST PLATES	4 or more	391-2185-956	18	CAP SCREWS & STUDS	4	xx-BOLTS-xx
9A	INTERGRAL DRIVE SHAFT	1	324-29xx-xxx	19	WASHERS	4	391-3784-028
9B	Continental Drive Shaft	1	324-xxxx-xxx	20	NUT	4	391-1451-076
10	GASKET SEAL	1 or more	391-2884-050				

# P350 PUMPS SERVICE PARTS INFORMATION

## DOUBLE SHAFT SEAL ASSEMBLY

Seal Retainer (391-2584-050N)  
Lip seal (391-2883-103N)  
"O" ring (391-2881-141N)  
Lip Seal (391-2883-103N)  
(Optional Viton seal 391-2883-111N)



### 4-BOLT PATTERN



TORQUE BOLTS IN SEQUENCE  
SHOWN TO 2400 IN-LBS

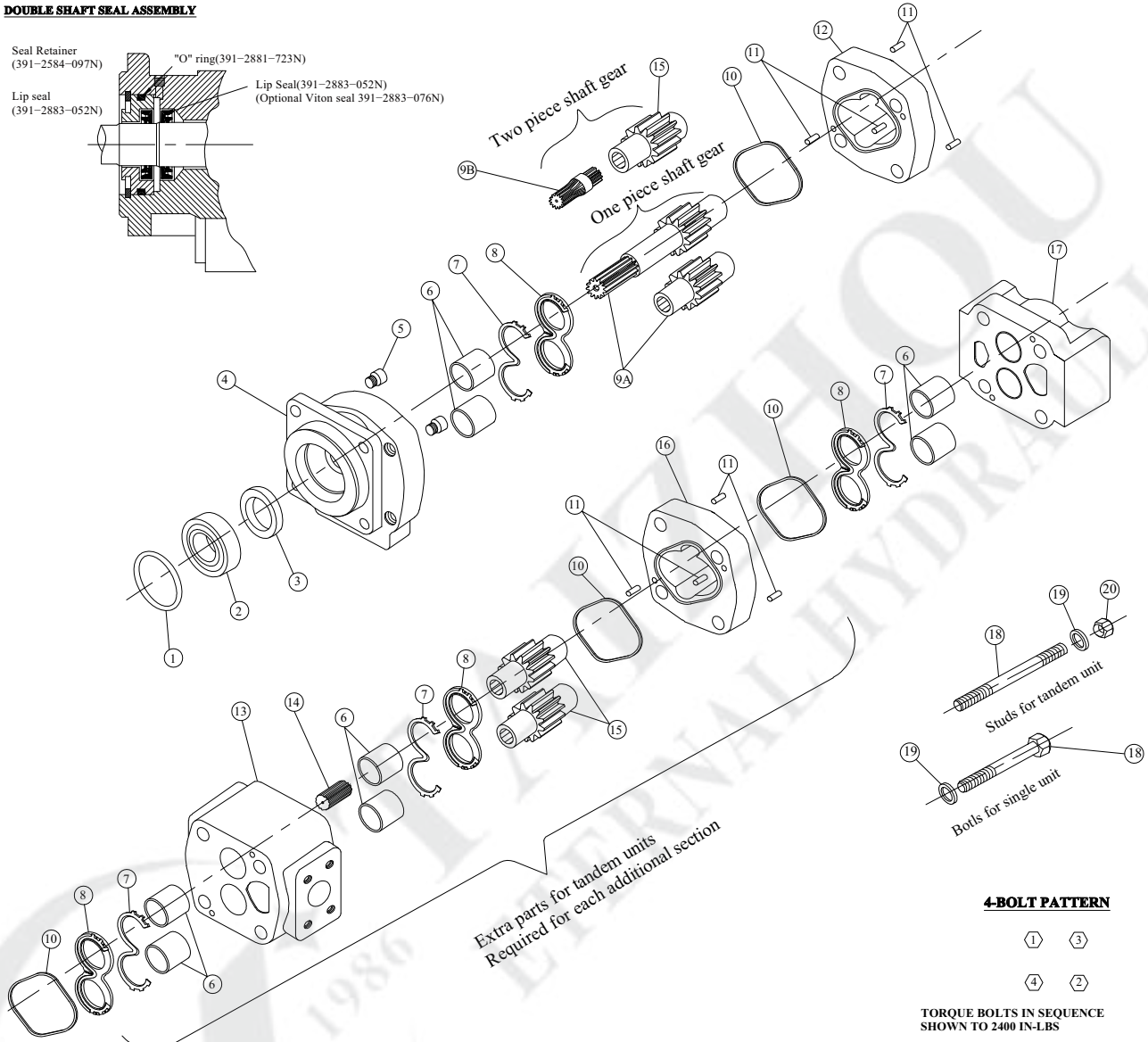
## DESCRIPTION & CODES

ITEM	DESCRIPTION	REQ'S	PART NO.	ITEM	DESCRIPTION	REQ'S	PART NO.
1	SNAP RING	1	391-2686-065	11	DOWEL PINS	4 or more	391-2082-032
2	OUTBOARD BEARING	1	391-0381-077	12	GEAR HOUSING	1	323-81xx-100
3	SEAL	1	391-2883-103	13	BEARING CARRIER	1	323-7xxx-100
4	SHAFT END COVER	1	323-5xxx-xxx	14	CONNECTING SHAFT	1	323-1133-100
5	PLUG	2	391-2886-004	15	MATCHED GEAR SET	1	323-28xx-000
6	BUSHINGS	4 or more	391-0482-308	16	GEAR HOUSING	1	323-81xx-100
7	CHANNEL SEAL	4 or more	391-2885-066	17	PORT END COVER	1	323-3xxx-100
8	THRUST PLATES	4 or more	391-2185-957	18	CAP SCREWS & STUDS	4	xx-BOLTS-xx
9A	INTERGRAL DRIVE SHAFT	1	323-29xx-xxx	19	WASHERS	4	391-3784-028
9B	Continental Drive Shaft	1	323-xxxx-xxx	20	NUT	4	391-1451-076
10	GASKET SEAL	2 or more	391-2884-074				

# P365 PUMPS SERVICE PARTS INFORMATION

## DOUBLE SHAFT SEAL ASSEMBLY

Seal Retainer (391-2584-097N)  
"O" ring (391-2881-723N)  
Lip Seal (391-2883-052N)  
(Optional Viton seal 391-2883-076N)



## DESCRIPTION & CODES

ITEM	DESCRIPTION	REQ'S	PART NO.	ITEM	DESCRIPTION	REQ'S	PART NO.
1	SNAP RING	1	391-2686-025	11	DOWEL PINS	4 or more	391-2082-062
2	OUTBOARD BEARING	1	391-0381-078	12	GEAR HOUSING	1	322-81xx-100
3	SEAL	1	391-2883-052	13	BEARING CARRIER	1	322-7xxx-100
4	SHAFT END COVER	1	322-5xxx-xxx	14	CONNECTING SHAFT	1	322-1133-001
5	PLUG	2	391-2286-004	15	MATCHED GEAR SET	1	322-28xx-000
6	BUSHINGS	4 or more	391-0482-307	16	GEAR HOUSING	1	322-81xx-100
7	CHANNEL SEAL	4 or more	391-2885-064	17	PORT END COVER	1	322-3xxx-100
8	THRUST PLATES	4 or more	391-2185-955	18	CAP SCREWS & STUDS	4	xx-BOLTS-xx
9A	INTERGRAL DRIVE SHAFT	1	322-29xx-xxx	19	WASHERS	4	391-3784-028
9B	Continental Drive Shaft	1	322-xxxx-xxx	20	NUT	4	391-1451-076
10	GASKET SEAL	1 or more	391-2884-052				