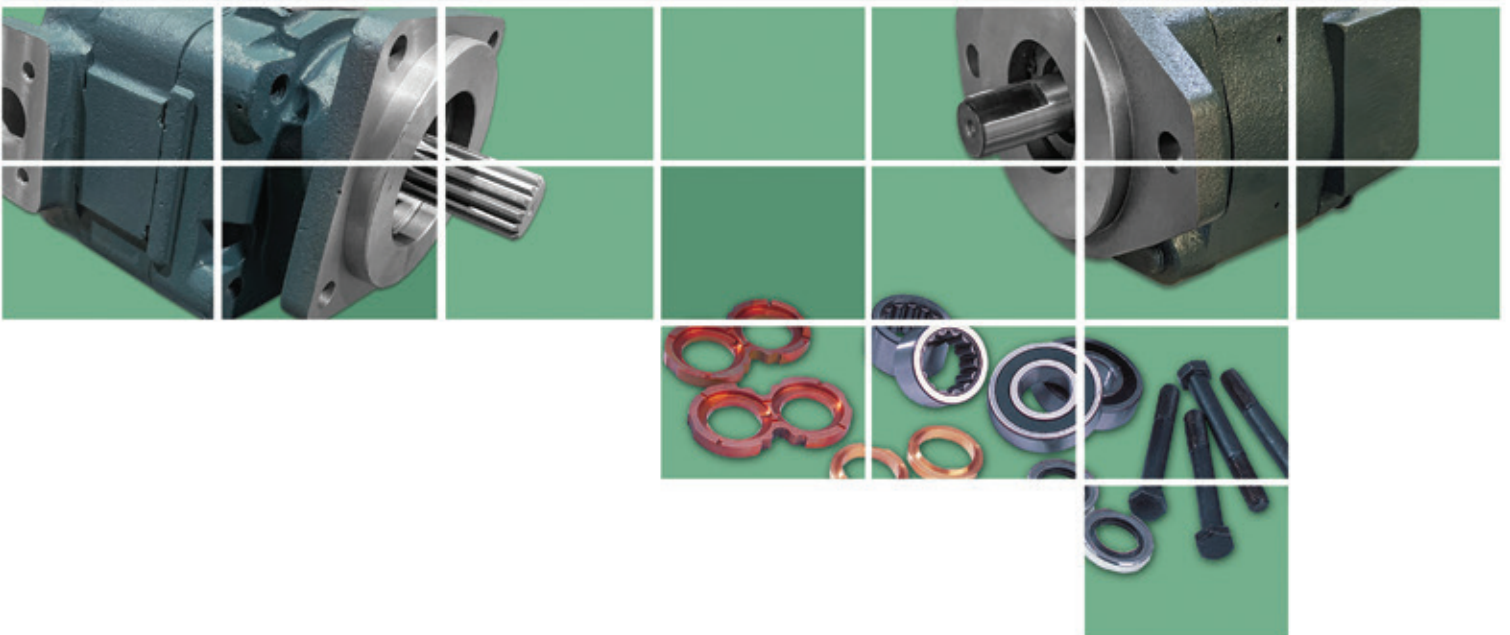


www.johngearpumps.com

HIGH QUALITY GEAR PRODUCTS



Bearing and bushing style pumps and motors

JGTC-2024.V1



Series 21 – Bearing Pump and Motor **Page 3**

JG21 Frame Size	05	07	10	12	15	17	20
Displacement in ³ /rev	.99	1.48	1.97	2.46	2.96	3.45	3.94
Max continuous pressure - PSI	3500	3500	3500	3500	3500	2500	2500
Max Speed - RPM	2400	2400	2400	2400	2400	2400	2400

Series 31 – Bearing Pump and Motor **Page 7**

JG31 Frame Size	07	10	12	15	17	20
Displacement in ³ /rev	1.48	1.97	2.46	2.96	3.45	3.94
Max continuous pressure - PSI	3000	3000	3000	3000	2500	2500
Max Speed - RPM	2400	2400	2400	2400	2400	2400

Series 51 – Bearing Pump and Motor **Page 11**

JG51 Frame Size	10	12	15	17	20	22
Displacement in ³ /rev	2.55	3.19	3.83	4.46	5.10	5.74
Max continuous pressure - PSI	3000	3000	3000	3000	2500	2500
Max Speed - RPM	2400	2400	2400	2400	2400	2400

Series 76 – Bearing Pump and Motor **Page 15**

JG76 Frame Size	10	12	15	17	20	22	25	27	30
Displacement in ³ /rev	4.10	5.13	6.15	7.18	8.20	9.23	10.25	11.28	12.30
Max continuous pressure - PSI	3000	3000	3000	3000	2500	2500	2500	2000	2000
Max Speed - RPM	2400	2400	2400	2400	2400	2400	2400	2400	2400

Series 315 – Bushing Pump and Motor **Page 19**

JG315 Frame Size	07	10	12	15	17	20
Displacement in ³ /rev	0.93	1.25	1.55	1.86	2.17	2.48
Max continuous pressure - PSI	3500	3500	3500	3300	2900	2500
Max Speed - RPM	3000	3000	3000	3000	3000	3000

Series 330 – Bearing Pump and Motor **Page 23**

JG330 Frame Size	07	10	12	15	17	20
Displacement in ³ /rev	1.48	1.97	2.46	2.96	3.45	3.94
Max continuous pressure - PSI	3500	3500	3500	3500	3250	3000
Max Speed - RPM	3000	3000	3000	3000	3000	3000

Series 350 – Bearing Pump and Motor **Page 27**

JG350 Frame Size	07	10	12	15	17	20	22	25
Displacement in ³ /rev	1.91	2.55	3.19	3.83	4.46	5.10	5.74	6.38
Max continuous pressure - PSI	3500	3500	3500	3500	3250	3000	2750	2500
Max Speed - RPM	2400	2400	2400	2400	2400	2400	2400	2400

Series 365 – Bearing Pump and Motor **Page 31**

JG365 Frame Size	10	12	15	17	20	22	25
Displacement in ³ /rev	3.60	4.50	5.40	6.30	7.20	8.10	9.00
Max continuous pressure - PSI	3500	3500	3500	3500	3500	3250	3000
Max Speed - RPM	2400	2400	2400	2400	2400	2400	2400



21 SERIES - PUMPS & MOTORS

John Gear Pumps - 21 Series models are interchangeable with Commercial, Parker, Permco and Muncie.

They are available in a variety of mounting flanges, shaft configurations and porting options.

Our 21 series pumps offer working pressure up to 3500 psi ideal for the most demanding of applications.



HEAVY DUTY

Dowelled cast iron construction with working pressure up to 3500psi



OEM COMPATIBLE

Meeting or exceeding OEM. Our parts and assemblies are interchangeable with leading brands



BUILT TO ORDER

Choose the porting, mounting flange and shaft configuration to meet your needs

Specifications

GEAR WIDTH	DISPLACEMENT	MAX PRESSURE			
			IN ³ /REV	CM ³ /REV	
		PSI	BAR		
0.50	1/2"	0.99	16.1	3500	241
0.75	3/4"	1.48	24.2	3500	241
1.00	1"	1.97	32.3	3500	241
1.25	1-1/4"	2.46	40.4	3500	241
1.50	1-1/2"	2.96	48.4	3500	241
1.75	1-3/4"	3.45	56.5	2500	172
2.00	2"	3.94	64.6	2500	172

Pump Performance Data

SPEED	GEAR WIDTH				
	GPM (LPM)				
	1"	1-1/4"	1-1/2"	1-3/4"	2"
900	6.5 (24.5)	8 (30.5)	10 (38)	12 (45.5)	13.5 (51)
1200	9 (34)	11.5 (43.5)	14 (53)	16 (60.5)	18.5 (70)
1500	11.5 (43.5)	14.5 (55)	17.5 (66)	20.5 (77.5)	23.5 (89)
1800	14 (53)	18 (68)	21.5 (81.5)	25 (94.5)	29 (110)
2100	16.5 (62.5)	21 (79.5)	25 (94.5)	29.5 (111)	34 (128.5)
2400	19 (72)	24 (91)	29 (110)	34 (128.5)	39 (147.5)

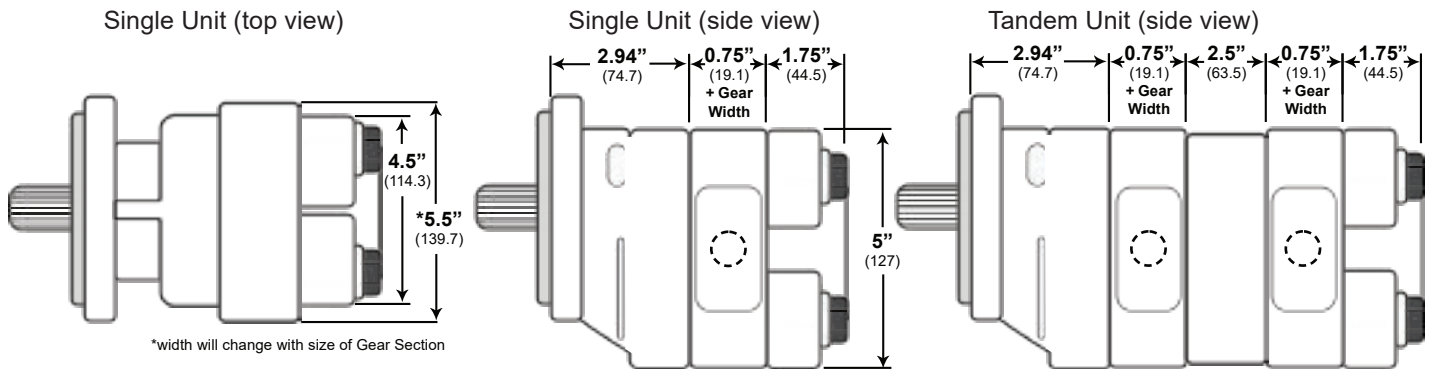
Motor Performance Data

SPEED	INPUT FLOW		OUTPUT TORQUE		INPUT FLOW		OUTPUT TORQUE	
	GPM (LPM)		IN/LBS (NM)		GPM (LPM)		IN/LBS (NM)	
	RPM		1"		1-1/2"		2"	
800	9 (34)	550 (62)	13 (49)	870 (98.5)	17 (64.5)	1150 (130)		
1200	13 (49)	550 (62)	18 (68)	870 (98.5)	23.5 (89)	1150 (130)		
1600	16 (60.5)	550 (62)	23 (87)	860 (97.5)	30.5 (115.5)	1140 (129)		
2000	19.5 (74)	550 (62)	28 (106)	850 (96)	37 (140)	1125 (127)		

Note: Input Flow @ 2000psi | Output Torque @140 bar



Dimensions - INCHES (mm)



Approximate Weight - LBS (kg)

	GEAR WIDTH										
	1/2"	3/4"	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"
SINGLE	24 (11)	25 (11)	26 (12)	28 (13)	29 (13)	31 (14)	33 (15)	-	-	-	-
MULTI	21 (10)	22 (10)	23 (10)	24 (11)	25 (11)	26 (12)	28 (13)	-	-	-	-

For the total weight of a multiple unit add the weight from the row of the SINGLE unit to the weight from the row of the MULTI unit. (e.g. a tandem pump with a 1" gear at the front and a 1/2" gear on the rear would be 26lbs + 21lbs for a total of 47lbs)

Popular PK Crossovers

JOHN GEAR CODE	CROSSOVER	DESCRIPTION	GPM @ 1000RPM	REAR PORT	SIDE PORT
JGM21-A-846-JY-EF07-25	PK106-02BSBB	2/4 bolt B Mount, 13 tooth spline, ORB Porting	6.4	1"	3/4"
JGM21-A-846-QQ-YF10-25	PK108-02BPBB	2/4 bolt B Mount, 13 tooth spline, NPT Porting	8.5	1"	1"
JGM21-A-846-JY-AF10-25	PK108-02BSBB	2/4 bolt B Mount, 13 tooth spline, ORB Porting	8.5	1"	1"
JGM21-A-846-QQ-YF12-25	PK111-02BPBB	2/4 bolt B Mount, 13 tooth spline, NPT Porting	10.6	1"	1"
JGM21-A-846-JY-AF12-25	PK111-02BSBB	2/4 bolt B Mount, 13 tooth spline, ORB Porting	10.6	1"	1"
JGM21-A-846-QQ-YL15-25	PK113-02BPBB	2/4 bolt B Mount, 13 tooth spline, NPT Porting	12.6	1"	1-1/4"
JGM21-A-846-JY-AL15-25	PK113-02BSBB	2/4 bolt B Mount, 13 tooth spline, ORB Porting	12.8	1"	1-1/4"
JGM21-A-846-QQ-YL17-25	PK115-02BPBB	2/4 bolt B Mount, 13 tooth spline, NPT Porting	14.9	1"	1-1/4"
JGM21-A-846-JY-AL17-25	PK115-02BSBB	2/4 bolt B Mount, 13 tooth spline, ORB Porting	14.9	1"	1-1/4"
JGM21-A-846-QQ-YL20-25	PK117-02BPBB	2/4 bolt B Mount, 13 tooth spline, NPT Porting	17	1"	1-1/4"
JGM21-A-846-JY-AL20-25	PK117-02BSBB	2/4 bolt B Mount, 13 tooth spline, ORB Porting	17	1"	1-1/4"

How to specify and code John Gear Pumps

This catalog contains codes for the most widely used models only; other assembly codes are available from our sales representatives. We offer pump or motors in both single and multistage units. The full code for a finished unit combines individual codes for PUMP TYPE¹, UNIT², SHAFT END COVER^{3&4}, PORT END COVER⁵, GEAR SECTION^{6&7}, and SHAFT CODE⁸. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER⁹ and another GEAR SECTION^{6&7} for each additional section and finish with one CONNECTING SHAFT¹⁰.

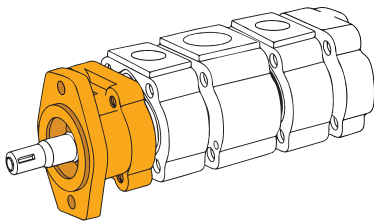
Model Code Breakdown

Repeat for multi-section unit

JGP21 - B - 3 46 - BI - ID 10 - 30 - B - IF 12 - 1*

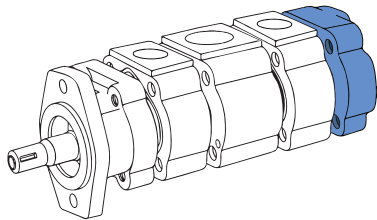
Type¹
JGP = Pump
JGM = Motor

Unit²
A = Single Unit
B = Tandem Unit
C = Continental Shaft



Shaft End Cover³
1 = Pump (Clockwise Rotation)
2 = Pump (Counter-clockwise Rotation)
3 = Pump (Double Rotation)
4 = Pump with Shaft Bearing (Clockwise Rotation)
5 = Pump with Shaft Bearing (Counter-clockwise Rotation)
6 = Pump with Shaft Bearing (Double Rotation)
8 = Motor with Shaft Bearing (Double Rotation)
9 = Motor (Double Rotation)

Shaft End Cover⁴
42 = 4-Bolt B
46 = 2/4-Bolt B
94 = 2-Bolt A
96 = 2-Bolt B (Type 2)
97 = 2-Bolt B



Port End Cover⁵

NPT Codes

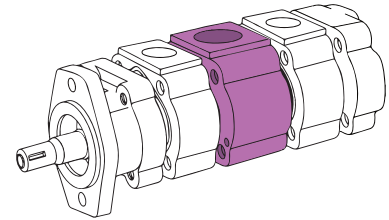
ORB Codes

Single Units	Tandem Units	Port Size	
BY	BI	Left	Right
BE	BY	None	None
KE	KY	3/4"	None
LE	LY	None	3/4"
ME	MY	3/4"	3/4"
QU	QQ	1"	1"
AI	AI	3/4"	1"
EI	EI	1"	3/4"

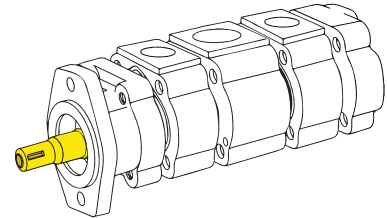
Single Units	Tandem Units	Port Size	
CI	CY	Left	Right
CE	CY	3/4"	None
DE	DY	None	3/4"
FE	FY	3/4"	3/4"
GE	GY	1"	3/4"
HE	HY	3/4"	1"
JE	JY	1"	1"
MA	YO	1"	None
RA	RO	None	1"

◦ Shaded cells include extended studs.

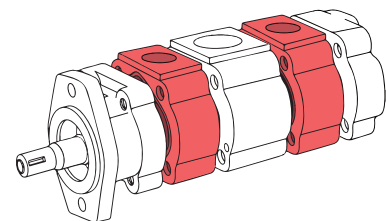
Connecting Shaft¹⁰
 * for connecting multiple units
 1 = Connecting Shaft



Bearing Carriers⁹
 See next page for Bearing carrier options



Shaft Type⁸
07 = SAE 'C' 14 Tooth Spline 1.250" Dia. (Cont. Only)
12 = Keyed Shaft .75" Dia. (Cont. Only)
15 = SAE 'B' Keyed 0.875" Dia. (Cont. Only)
25 = SAE 'B' 13Tooth Spline 0.875" Dia.
30 = SAE 'B' Keyed 0.875" Dia.
43 = SAE 'BB' Keyed 1" Dia.
95 = SAE 'A' 9 Tooth Spline 0.62" Dia. (Cont. Only)
65 = SAE 'B' 13 Tooth Spline 0.875 Dia. (Type 2)
98 = SAE 'BB' 15 Tooth Spline 1" Dia.



Gear Section^{6&7}
 see next page for options.

Gear Section ⁶

NPT Codes

Code	Port Size		Gear Size						
	Left	Right	05	07	10	12	15	17	20
IL	1/2"	None	x	x	x				
IM	None	1/2"	x	x	x				
IR	1/2"	1/2"	x	x					
IC	3/4"	None		x	x	x	x	x	x
ID	None	3/4"		x	x	x	x	x	x
IF	3/4"	3/4"		x	x	x	x	x	x
IG	3/4"	1"			x	x	x	x	x
IH	3/4"	1-1/4"					x	x	
IJ	1"	3/4"			x	x	x	x	x
IK	1-1/4"	3/4"					x	x	
YC	1"	None			x	x	x	x	x
YD	None	1"			x	x	x	x	x
YF	1"	1"			x	x	x	x	x
YG	1"	1-1/4"					x	x	x
YH	1"	1-1/2"							x
YJ	1-1/4"	1"					x	x	x
YK	1-1/2"	1"							x
IA	1-1/4"	None					x	x	x
IB	None	1-1/4"					x	x	x
YL	1-1/4"	1-1/4"					x	x	x

Split Flange Codes

Code	Port Size		Gear Size						
	Left	Right	07	10	12	15	17	20	
UC	3/4"	None	x	x	x	x	x	x	x
UD	None	3/4"	x	x	x	x	x	x	x
UF	3/4"	3/4"	x	x	x	x	x	x	x
UG	3/4"	1"		x	x	x	x	x	x
UH	3/4"	1-1/4"			x	x	x	x	x
UJ	1"	3/4"			x	x	x	x	x
UK	1-1/4"	3/4"			x	x	x	x	x
OC	1"	None			x	x	x	x	x
OD	None	1"			x	x	x	x	x
OF	1"	1"			x	x	x	x	x
OG	1"	1-1/4"			x	x	x	x	x
OH	1"	1-1/2"						x	x
OJ	1-1/4"	1"			x	x	x	x	x
OK	1-1/2"	1"						x	x
OA	1-1/4"	None			x	x	x	x	x
OB	None	1-1/4"			x	x	x	x	x
OL	1-1/4"	1-1/4"					x	x	x
OM	1-1/4"	1-1/2"						x	x
OP	1-1/2"	1-1/4"						x	x
OE	1-1/2"	None						x	x
OU	None	1-1/2"						x	x

ORB Codes

Code	Port Size		Gear Size						
	Left	Right	07	10	12	15	17	20	
EC	3/4"	None	x	x	x	x	x	x	x
ED	None	3/4"	x	x	x	x	x	x	x
EF	3/4"	3/4"	x	x	x	x	x	x	x
EG	3/4"	1"		x*	x	x	x	x	x
EH	3/4"	1-1/4"				x*	x	x	x
IN	3/4"	1-1/2"						x*	x
EJ	1"	3/4"		x*	x	x	x	x	x
EK	1-1/4"	3/4"				x*	x	x	x
IP	1-1/2"	3/4"						x*	x
EZ	7/8"	None				x			
EL	7/8"	1"			x*				
EM	1"	7/8"			x*				
AC	1"	None		x*	x	x	x	x	x
AD	None	1"		x*	x	x	x	x	x
AF	1"	1"			x*	x	x	x	x
AG	1"	1-1/4"			x*	x*	x	x	x
AH	1"	1-1/2"						x*	x
AJ	1-1/4"	1"				x*	x*	x	x
AK	1-1/2"	1"						x*	x
AA	1-1/4"	None			x*	x*	x	x	x
AO	None	1-1/4"			x*	x*	x	x	x
AL	1-1/4"	1-1/4"						x	x
AM	1-1/4"	1-1/2"						x*	x
AP	1-1/2"	1-1/4"						x*	x
AE	1-1/2"	None						x*	x
AU	None	1-1/2"						x*	x

Blank - No Porting

Code	Port Size		Gear Size						
	Left	Right	05	07	10	12	15	17	20
AB	None	None	x	x	x	x	x	x	x

- Ports marked with an 'x' are recommended porting. For all other porting please consult the factory.
- Shaded cells are good for Motor units.
- Ports marked with a 'x*' are low pressure inlet porting.

Gear Section ⁷

Code (Displacement - in³/r)

05	07	10	12	15	17	20
(0.99)	(1.48)	(1.97)	(2.46)	(2.96)	(3.45)	(3.94)

Bearing Carriers ⁹

NPT Codes

IN	OUT	CW (left)	CCW (right)
1"	None	TB	BT
1-1/4"	None	VB	BV
1"	3/4"	TX	XT
1-1/4"	3/4"	VX	XV
1-1/4"	1"	VZ	ZV
1"	3/4"	TJ	JT
1-1/4"	3/4"	VJ	JV
1-1/4"	1"	VK	KV
1"	3/4"	ZX	XZ
1"	3/4"	ZS	SZ

Split Flange Codes

IN	OUT	CW (left)	CCW (right)
1"	None	LB	BL
1-1/4"	None	MB	BM
None	3/4"	BR	RB
1"	3/4"	LR	RL
1-1/4"	3/4"	MR	RM
1-1/4"	1"	MS	SM
1"	3/4"	LX	XL
1-1/4"	3/4"	MX	XM
1-1/4"	1"	MZ	ZM
1"	3/4"	SR	RS
1"	3/4"	RZ	ZR

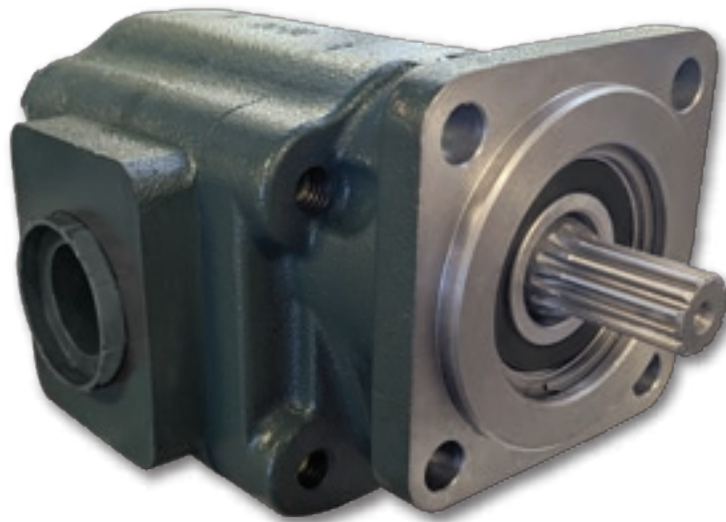
ORB Codes

IN	OUT	CW (left)	CCW (right)
1"	None	CB	BC
1-1/4"	None	DB	BD
1-1/2"	None	FB	BF
None	3/4"	PJ	JP
1"	3/4"	CJ	JC
1-1/4"	3/4"	DJ	JD
1-1/2"	3/4"	FJ	JF
1-1/4"	1"	DK	KD
1-1/2"	1"	FK	KF
1"	3/4"	CR	RC
1-1/4"	3/4"	DR	RD
1-1/2"	3/4"	FR	RF
1-1/4"	1"	DS	SD
1-1/2"	1"	FS	SF
1"	3/4"	KJ	JK
1"	3/4"	KX	XK

Blank - No Porting

IN	OUT	CW (left)	CCW (right)
None	None	C	D
None	None	B	B

- Consult the factory for other porting options.



31 SERIES - PUMPS & MOTORS

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They are available in a variety of mounting flanges, shaft configurations and porting options.

Our 31 series pumps offer working pressure up to 3000 psi ideal for the most demanding of applications.



HEAVY DUTY

Dowelled cast iron construction with working pressure up to 3000psi



OEM COMPATIBLE

Meeting or exceeding OEM. Our parts and assemblies are interchangeable with leading brands



BUILT TO ORDER

Choose the porting, mounting flange and shaft configuration to meet your needs

Specifications

GEAR WIDTH		DISPLACEMENT		MAX PRESSURE	
		IN ³ /REV	CM ³ /REV	PSI	BAR
0.50	1/2"	0.99	16.1	3000	207
0.75	3/4"	1.48	24.2	3000	207
1.00	1"	1.97	32.3	3000	207
1.25	1-1/4"	2.46	40.4	3000	207
1.50	1-1/2"	2.96	48.4	3000	207
1.75	1-3/4"	3.45	56.5	2500	172
2.00	2"	3.94	64.6	2500	172

Pump Performance Data

SPEED	GEAR WIDTH				
	GPM (LPM)				
RPM	1"	1-1/4"	1-1/2"	1-3/4"	2"
900	6.5 (24.5)	8 (30.5)	10 (38)	12 (45.5)	13.5 (51)
1200	9 (34)	11.5 (43.5)	14 (53)	16 (60.5)	18.5 (70)
1500	11.5 (43.5)	14.5 (55)	17.5 (66)	20.5 (77.5)	23.5 (89)
1800	14 (53)	18 (68)	21.5 (81.5)	25 (94.5)	29 (110)
2100	16.5 (62.5)	21 (79.5)	25 (94.5)	29.5 (111)	34 (128.5)
2400	19 (72)	24 (91)	29 (110)	34 (128.5)	39 (147.5)

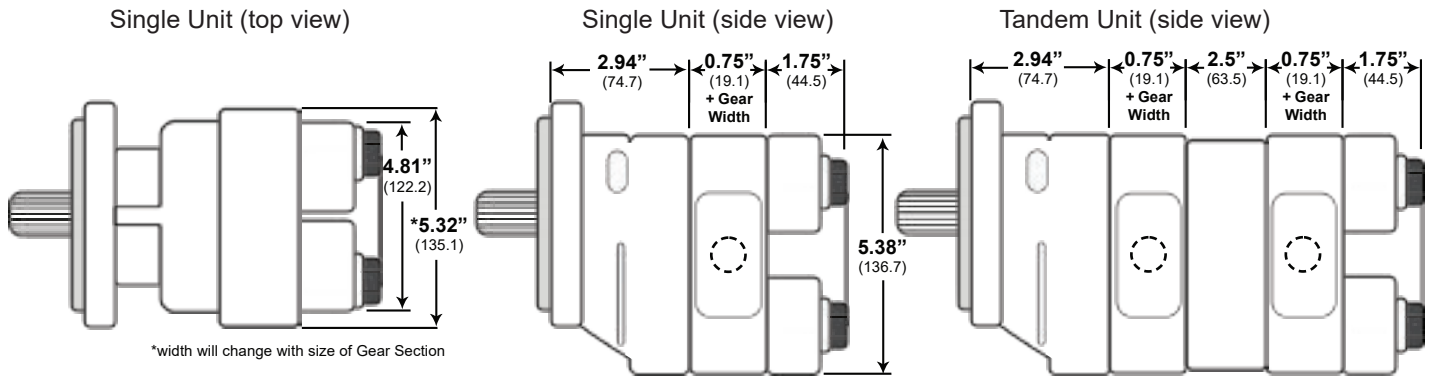
Motor Performance Data

SPEED	INPUT FLOW	OUTPUT TORQUE		INPUT FLOW	OUTPUT TORQUE	
		IN/LBS (NM)			IN/LBS (NM)	
RPM	GPM (LPM)	1"		1-1/2"		2"
800	9 (34)	675 (76.5)		13 (49)	1035 (117)	1385 (156.5)
1200	13 (49)	685 (77.5)		18 (68)	1055 (119.5)	1410 (159.5)
1600	16 (60.5)	680 (77)		23 (87)	1030 (116.5)	1390 (157)
2000	19.5 (74)	660 (74.5)		28 (106)	1010 (114)	1370 (155)

Note: Input Flow @ 2500psi | Output Torque @172 bar



Dimensions - INCHES (mm)



Approximate Weight - LBS (kg)

	GEAR WIDTH										
	1/2"	3/4"	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"
SINGLE	30 (14)	31 (14)	33 (15)	34 (15)	35 (16)	36 (16)	37 (17)	38 (17)	39 (18)	-	-
MULTI	23 (10)	24 (11)	27 (12)	28 (12)	29 (13)	31 (14)	32 (14)			-	-

For the total weight of a multiple unit add the weight from the row of the SINGLE unit to the weight from the row of the MULTI unit. (e.g. a tandem pump with a 1" gear at the front and a 1/2" gear on the rear would be 33lbs + 23lbs for a total of 56lbs

**JOHN GEAR PUMPS
Filter Carts**

Stand-alone units that operates offline and away from the hydraulic application. Typically used for transferring and draining oil, flushing new, repaired or rebuilt equipment and decontaminating systems.

Available two or four stage filter setups.

How to specify and code John Gear Pumps

This catalog contains codes for the most widely used models only; other assembly codes are available from our sales representatives. We offer pump or motors in both single and multistage units. The full code for a finished unit combines individual codes for PUMP TYPE¹, UNIT², SHAFT END COVER^{3&4}, PORT END COVER⁵, GEAR SECTION^{6&7}, and SHAFT CODE⁸. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER⁹ and another GEAR SECTION^{6&7} for each additional section and finish with one CONNECTING SHAFT¹⁰.

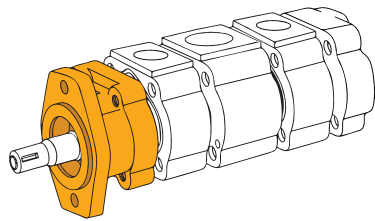
Model Code Breakdown

JGP31 - B - 3 46 - BI - UH 12 - 30 - B - UD 07 - 1*

Repeat for multi-section unit

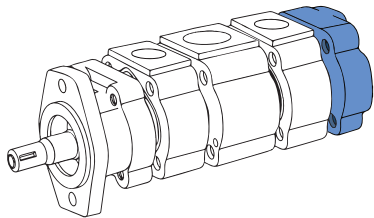
Type¹
JGP = Pump
JGM = Motor

Unit²
A = Single Unit
B = Tandem Unit
C = Continental Shaft



Shaft End Cover³
1 = Pump (Clockwise Rotation)
2 = Pump (Counter-clockwise Rotation)
3 = Pump (Double Rotation)
4 = Pump with Shaft Bearing (Clockwise Rotation)
5 = Pump with Shaft Bearing (Counter-clockwise Rotation)
6 = Pump with Shaft Bearing (Double Rotation)
8 = Motor with Shaft Bearing (Double Rotation)
9 = Motor (Double Rotation)

Shaft End Cover⁴
00 = Pad Mount
05 = 6-Bolt Round
42 = 4-Bolt B
46 = 2/4-Bolt B
78 = 4-Bolt C
94 = 2-Bolt A
96 = 2-Bolt B (Type 2)
97 = 2-Bolt B



Port End Cover⁵

NPT Codes

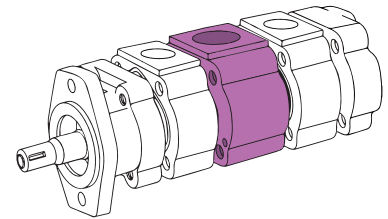
ORB Codes

Single Units		Tandem Units		Port Size	
BE	BY	BI	BY	None	None
KE	KY	KI	KY	3/4"	None
LE	LY	LI	LY	None	3/4"
ME	MY	MI	MY	3/4"	3/4"
QU		QU		1"	1"

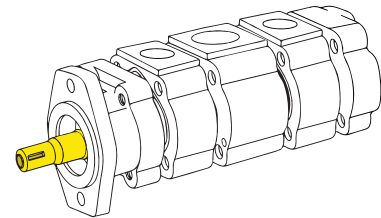
Single Units		Tandem Units		Port Size	
CE	CY	CI	CY	3/4"	None
DE	DY	DI	DY	None	3/4"
FE	FY	FI	FY	3/4"	3/4"
GE	GY	GI	GY	1"	3/4"
JE	JY	JI	JY	1"	1"
MA	YO	MU	YO	1"	None
RA	RO	SU	RO	None	1"

◦ Shaded cells include extended studs.

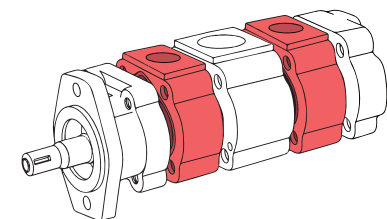
Connecting Shaft¹⁰
 * for connecting multiple units
 1 = Connecting Shaft



Bearing Carriers⁹
 See next page for Bearing carrier options



Shaft Type⁸
07 = SAE 'C' 14 Tooth Spline 1.250" Dia. (Cont. Only)
12 = Keyed Shaft .75" Dia. (Cont. Only)
25 = SAE 'B' 13 Tooth Spline 0.875" Dia.
30 = SAE 'B' Keyed 0.875" Dia.
43 = SAE 'BB' Keyed 1" Dia.
65 = SAE 'B' 13 Tooth Spline 0.875 Dia. (Type 2)
98 = SAE 'BB' 15 Tooth Spline 1" Dia.



Gear Section^{6&7}
 see next page for options.

Gear Section ⁶

NPT Codes

Code	Port Size		Gear Size						
	Left	Right	05	07	10	12	15	17	20
IL	1/2"	None		x	x				
IM	None	1/2"		x	x				
IR	1/2"	1/2"		x					
IC	3/4"	None			x	x	x	x	x
ID	None	3/4"			x	x	x	x	x
IF	3/4"	3/4"			x	x	x	x	x
IG	3/4"	1"			x*	x	x	x	
IH	3/4"	1-1/4"					x*	x	
IJ	1"	3/4"			x*	x	x	x	
IK	1-1/4"	3/4"					x	x	
YC	1"	None			x*	x	x	x	
YD	None	1"			x*	x	x	x	
YF	1"	1"				x	x	x	x
YG	1"	1-1/4"					x*	x	x
YH	1"	1-1/2"						x*	x
YJ	1-1/4"	1"						x*	x
YK	1-1/2"	1"							x*
IA	1-1/4"	None						x*	x
IB	None	1-1/4"						x*	x
YL	1-1/4"	1-1/4"							x
YM	1-1/4"	1-1/2"							x*
YP	1-1/2"	1-1/4"							x*
YA	1-1/2"	None							x*
YB	None	1-1/2"							x*

Split Flange Codes

Code	Port Size		Gear Size						
	Left	Right	07	10	12	15	17	20	
UC	3/4"	None		x	x	x	x		
UD	None	3/4"		x	x	x	x		
UF	3/4"	3/4"	x	x	x	x			
UG	3/4"	1"		x*	x	x	x	x	x
UH	3/4"	1-1/4"			x*	x*	x	x	x
UJ	1"	3/4"			x*	x	x	x	x
UK	1-1/4"	3/4"				x*	x*	x	x
OC	1"	None				x	x	x	
OD	None	1"				x	x	x	x
OF	1"	1"			x	x	x	x	x
OG	1"	1-1/4"				x*	x*	x	x
OH	1"	1-1/2"						x*	x*
OJ	1-1/4"	1"				x*	x*	x	x
OK	1-1/2"	1"						x*	x*
OA	1-1/4"	None				x*	x	x	x
OB	None	1-1/4"				x*	x	x	x
OL	1-1/4"	1-1/4"					x	x	x
OM	1-1/4"	1-1/2"						x*	x*
OP	1-1/2"	1-1/4"						x*	x*
OE	1-1/2"	None						x*	x
OU	None	1-1/2"						x*	x

ORB Codes

Code	Port Size		Gear Size						
	Left	Right	07	10	12	15	17	20	
EC	3/4"	None		x*	x	x	x	x	x
ED	None	3/4"		x*	x	x	x	x	x
EF	3/4"	3/4"		x	x	x	x	x	x
EG	3/4"	1"		x*	x*	x	x	x	x
EH	3/4"	1-1/4"					x*	x*	
IN	3/4"	1-1/2"						x*	x*
EJ	1"	3/4"			x*	x*	x	x	x
EK	1-1/4"	3/4"					x*	x*	
IP	1-1/2"	3/4"						x*	x
EZ	7/8"	None				x			
EL	7/8"	1"			x*	x*			
EM	1"	7/8"			x*	x*			
AC	1"	None			x*	x*	x	x	x
AD	None	1"			x*	x*	x	x	x
AF	1"	1"					x	x	x
AG	1"	1-1/4"					x*	x*	x*
AH	1"	1-1/2"						x*	x*
AJ	1-1/4"	1"					x*	x*	x*
AK	1-1/2"	1"						x*	x*
AA	1-1/4"	None						x*	x*
AO	None	1-1/4"						x*	x*
AL	1-1/4"	1-1/4"						x	x
AM	1-1/4"	1-1/2"						x*	x*
AP	1-1/2"	1-1/4"						x*	x*
AE	1-1/2"	None						x*	x*
AU	None	1-1/2"						x*	x*

- Ports marked with an 'x' are recommended porting. For all other porting please consult the factory.
- Shaded cells are good for Motor units.
- Ports marked with a 'x*' are low pressure inlet porting.

Blank - No porting

Code	Port Size		Gear Size						
	Left	Right	05	07	10	12	15	17	20
AB	None	None	x	x	x	x	x	x	x

Gear Section ⁷

Code (Displacement - in³/r)

05	07	10	12	15	17	20
(0.99)	(1.48)	(1.97)	(2.46)	(2.96)	(3.45)	(3.94)

Bearing Carriers ⁹

NPT Codes

IN	OUT	CW (left)	CCW (right)
1"	None	TB	BT
1-1/4"	None	VB	BV
1"	3/4"	TX	XT
1-1/4"	3/4"	VX	XV
1-1/4"	1"	VZ	ZV
1"	3/4"	TJ	JT
1-1/4"	3/4"	VJ	JV
1-1/4"	1"	VK	KV
1-1/2"	1"	KW	WK
1"	3/4"	ZX	XZ
1"	3/4"	ZS	SZ

Split Flange Codes

IN	OUT	CW (left)	CCW (right)
1"	None	LB	BL
1-1/4"	None	MB	BM
1-1/2"	None	NB	BN
None	3/4"	BR	RB
1"	3/4"	LR	RL
1-1/4"	3/4"	MR	RM
1-1/2"	3/4"	NR	RN
1-1/4"	1"	MS	SM
1-1/2"	1"	NS	SN
1"	3/4"	LX	XL
1-1/4"	3/4"	MX	XM
1-1/2"	3/4"	NX	XN
1-1/4"	1"	MZ	ZM
1-1/2"	1"	NZ	ZN
1"	3/4"	SR	RS
1"	3/4"	RZ	ZR

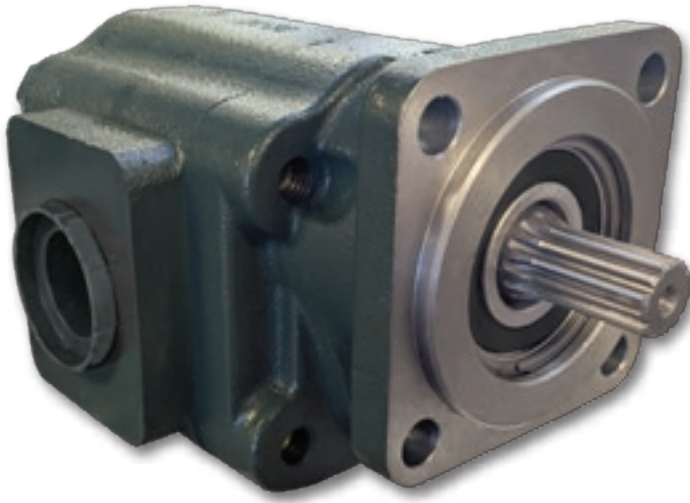
ORB Codes

IN	OUT	CW (left)	CCW (right)
1"	None	CB	BC
1-1/4"	None	DB	BD
1-1/2"	None	FB	BF
None	3/4"	PJ	JP
1"	3/4"	CJ	JC
1-1/4"	3/4"	DJ	JD
1-1/2"	3/4"	FJ	JF
1-1/4"	1"	DK	KD
1-1/2"	1"	FK	KF
1"	3/4"	CR	RC
1-1/4"	3/4"	DR	RD
1-1/2"	3/4"	FR	RF
1-1/4"	1"	DS	SD
1-1/2"	1"	FS	SF
1"	3/4"	KJ	JK
1"	3/4"	KX	XK

Blank - No Porting

IN	OUT	CW (left)	CCW (right)
None	None	C	D
None	None	B	B

- Consult the factory for other porting options.



51 SERIES - PUMPS & MOTORS

John Gear Pumps - 51 Series models are interchangeable with Commercial, Parker, Permco and Muncie.

They are available in a variety of mounting flanges, shaft configurations and porting options.

Our 51 series pumps offer working pressure up to 3000 psi ideal for the most demanding of applications.



HEAVY DUTY

Dowelled cast iron construction with working pressure up to 3000psi



OEM COMPATIBLE

Meeting or exceeding OEM. Our parts and assemblies are interchangeable with leading brands



BUILT TO ORDER

Choose the porting, mounting flange and shaft configuration to meet your needs

Specifications

Pump Performance Data

GEAR WIDTH	DISPLACEMENT	MAX PRESSURE		SPEED	GEAR WIDTH								
		IN ³ /REV	CM ³ /REV		PSI	BAR	RPM	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"
0.75	3/4"	1.91	31.3	3000	207	900	8.5 (32)	10.5 (39.5)	13 (49)	15 (57)	17.5 (66)	20 (75.5)	22 (83.5)
1.00	1"	2.55	41.8	3000	207	1200	12 (45.5)	15 (57)	18 (68)	21 (79.5)	24 (91)	27 (102)	30 (113.5)
1.25	1-1/4"	3.19	52.2	3000	207	1500	15 (57)	19 (72)	23 (87)	27 (102)	31 (117.5)	35 (132.5)	39 (147.5)
1.50	1-1/2"	3.83	62.7	3000	207	1800	18 (68)	23 (87)	27.5 (104)	32.5 (123)	37.5 (142)	42 (159)	47 (178)
1.75	1-3/4"	4.46	73.1	3000	207	2100	21.5 (81.5)	27 (102)	32.5 (123)	38.5 (145.5)	44 (166.5)	48.5 (183.5)	55 (208)
2.00	2"	5.1	83.6	2500	172	2400	25 (94.5)	31 (117.5)	37 (140)	44 (166.5)	51 (193)	57 (216)	63.5 (240.5)
2.25	2-1/4"	5.74	94	2500	172								
2.50	2-1/2"	6.38	104.5	2500	172								

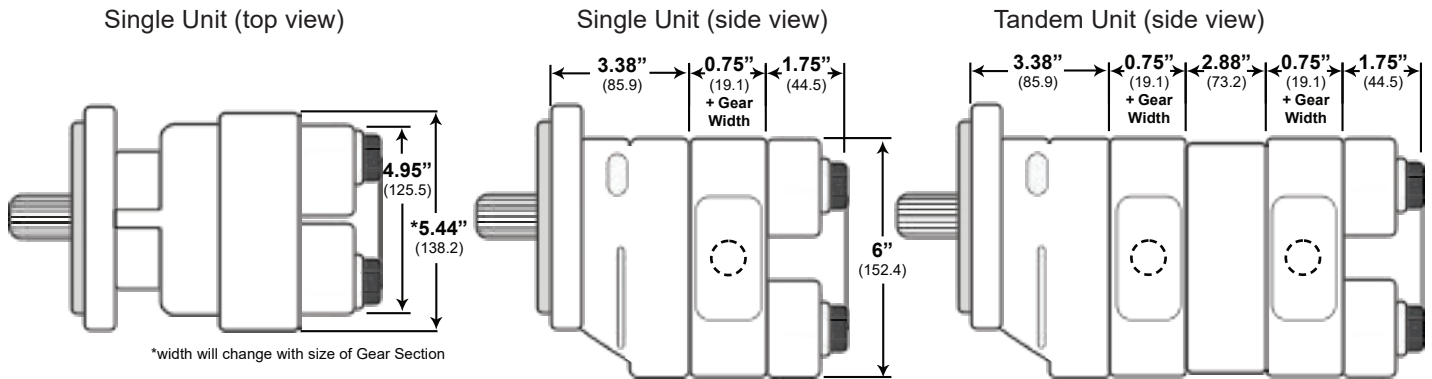
Motor Performance Data

SPEED	INPUT FLOW	OUTPUT TORQUE	INPUT FLOW	OUTPUT TORQUE	INPUT FLOW	OUTPUT TORQUE	INPUT FLOW	OUTPUT TORQUE
	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)
RPM	1"		1-1/2"		2"		2-1/2"	
800	10.5 (39.5)	825 (93.5)	15.5 (58.5)	1310 (148)	21 (79.5)	1810 (204.5)	26 (98.5)	2300 (260)
1200	15.5 (58.5)	850 (96)	22.5 (85)	1340 (151.5)	30.5 (115.5)	1830 (207)	37.5 (142)	2340 (264.5)
1600	20 (75.5)	830 (94)	30 (113.5)	1330 (150.5)	40 (151.5)	1805 (204)	49.5 (187.5)	2300 (260)
2000	25 (94.5)	800 (90.5)	37 (140)	1290 (146)	49 (185.5)	1770 (200)	61.5 (233)	2250 (254.5)

Note: Input Flow @ 2500psi | Output Torque @172 bar



Dimensions - INCHES (mm)



Approximate Weight - LBS (kg)

	GEAR WIDTH										
	1/2"	3/4"	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"
SINGLE	37 (17)	40 (18)	43 (20)	45 (20)	46 (21)	48 (22)	49 (22)	51 (23)	54 (24)	-	-
MULTI	30 (14)	31 (14)	33 (15)	34 (15)	36 (16)	37 (17)	38 (17)	42 (19)	45 (20)	-	-

For the total weight of a multiple unit add the weight from the row of the SINGLE unit to the weight from the row of the MULTI unit. (e.g. a tandem pump with a 1" gear at the front and a 1/2" gear on the rear would be 43lbs + 30lbs for a total of 73lbs)

Popular PL Crossovers

JOHN GEAR CODE	CROSSOVER	DESCRIPTION	GPM @ 1000RPM	REAR PORT	SIDE PORT
JGM51-A-846-ZZ-YF15-43	PL116-01BPBB	2/4 bolt B Mount, 1" Keyed, NPT Porting	16	1-1/2"	1"
JGM51-A-846-YE-AF15-25	PL116-02BSBB	2/4 bolt B Mount, 13 tooth spline, ORB Porting	16	1-1/4"	1"
JGM51-A-846-YE-AF17-43	PL119-01BSBB	2/4 bolt B Mount, 1" Keyed, ORB Porting	16	1-1/4"	1-1/4"
JGM51-A-846-ZZ-YL17-25	PL119-02BPBB	2/4 bolt B Mount, 13 tooth spline, NPT Porting	19	1-1/2"	1-1/4"
JGM51-A-846-ZZ-YL20-25	PL123-02BPBB	2/4 bolt B Mount, 13 tooth spline, NPT Porting	23	1-1/2"	1-1/4"
JGM51-A-846-ZZ-YR22-25	PL125-02BPBB	2/4 bolt B Mount, 13 tooth spline, NPT Porting	25	1-1/2"	1-1/2"
JGM51-A-846-YE-AR25-25	PL127-02BSBB	2/4 bolt B Mount, 13 tooth spline, ORB Porting	27	1-1/2"	1-1/4"
JGM51-A-846-ZZ-YR25-25	PL127-02BPBB	2/4 bolt B Mount, 13 tooth spline, NPT Porting	27	1-1/2"	1-1/2"
JGM51-A-878-ZZ-YR25-25	PL127-02CPBB	4 bolt C Mount, 13 tooth spline, NPT Porting	27	1-1/2"	1-1/2"

How to specify and code John Gear Pumps

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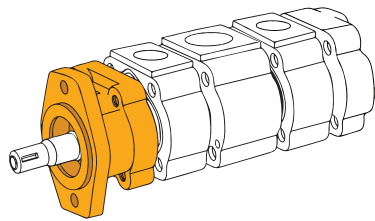
Model Code Breakdown

JGP51 - B - 3 46 - BI - EJ 12 - 30 - B - EG 10 - 1*

Repeat for multi-section unit

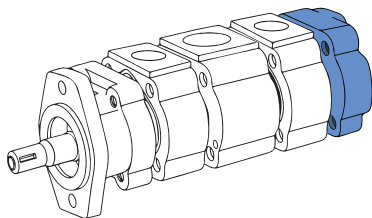
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A = Single Unit
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2 = Pump (Counter-clockwise Rotation)
3 = Pump (Double Rotation)
4 = Pump with Shaft Bearing (Clockwise Rotation)
5 = Pump with Shaft Bearing (Counter-clockwise Rotation)
6 = Pump with Shaft Bearing (Double Rotation)
8 = Motor with Shaft Bearing (Double Rotation)
9 = Motor (Double Rotation)

Shaft End Cover⁴
00 = Pad Mount
42 = 4-Bolt B
45 = 2/4-Bolt B (Type 2)
46 = 2/4-Bolt B
78 = 4-Bolt C
97 = 2-Bolt B
98 = 2-Bolt C



Port End Cover⁵

NPT Codes

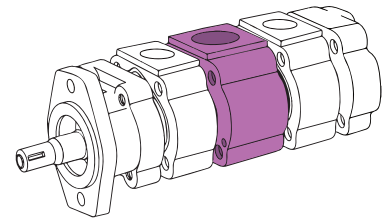
ORB Codes

Single Units		Tandem Units		Port Size	
BE	BY	BI	BY	None	Right
KE	KY	KI	KY	3/4"	None
LE	LY	LI	LY	None	3/4"
ME	MY	MI	MY	3/4"	3/4"

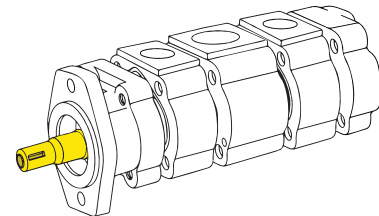
Single Units		Tandem Units		Port Size	
CE	CY	CI	CY	3/4"	None
DE	DY	DI	DY	None	3/4"
FE	FY	FI	FY	3/4"	3/4"

◦ Shaded cells include extended studs.

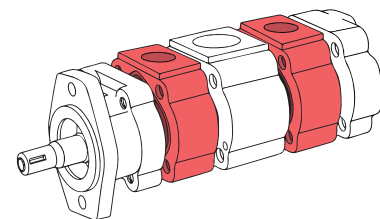
Connecting Shaft¹⁰
* for connecting multiple units
1 = Connecting Shaft



Bearing Carriers⁹
See next page for Bearing carrier options



Shaft Type⁸
07 = SAE 'C' 14 Tooth Spline 1.25" Dia. (Cont. Only)
11 = SAE 'C' Keyed Shaft 1.25" Dia.
25 = SAE 'B' 13 Tooth Spline 0.875" Dia.
43 = SAE 'BB' Keyed 1" Dia.
53 = SAE 'C' 14 Tooth Spline 1.25" Dia. (Type 2)
65 = SAE 'B' 13 Tooth Spline 0.875" Dia. (Type 2)
73 = SAE 'C' Keyed 1.25" Dia. (Cont. Only)
98 = SAE 'BB' 15 Tooth Spline 1" Dia. (Cont. Only)



Gear Section^{6&7}
see next page for options.

Gear Section ⁶

NPT Codes

Code	Port Size		Gear Size						
	Left	Right	10	12	15	17	20	22	25
IC	3/4"	None	x						
ID	None	3/4"	x	x	x	x			
IF	3/4"	3/4"	x	x	x	x	x		
IG	3/4"	1"	x*	x	x				
IH	3/4"	1-1/4"		x					
IJ	1"	3/4"	x*	x	x	x	x		
IK	1-1/4"	3/4"		x					
YC	1"	None		x	x	x	x	x	
YD	None	1"		x	x	x	x	x	
YF	1"	1"		x	x	x	x	x	x
YG	1"	1-1/4"		x*	x	x	x		
YH	1"	1-1/2"							x
YJ	1-1/4"	1"		x*	x	x	x	x	x
YK	1-1/2"	1"							x
IA	1-1/4"	None		x*	x*	x	x	x	
IB	None	1-1/4"		x*	x*	x	x	x	
YL	1-1/4"	1-1/4"				x	x	x	x
YM	1-1/4"	1-1/2"					x*	x	x
YP	1-1/2"	1-1/4"					x*	x	x
YR	1-1/2"	1-1/2"					x	x	x
YA	1-1/2"	None					x	x	x
YB	None	1-1/2"					x	x	x

- Ports marked with an 'x' are recommended porting. For all other porting please consult the factory.
- Shaded cells are good for Motor units.
- Ports marked with a 'x*' are low pressure inlet porting.
- NPT threads are not recommended for us at pressures in excess of 1500 PSI

Split Flange Codes

Code	Port Size		Gear Size						
	Left	Right	10	12	15	17	20	22	25
UC	3/4"	None	x	x	x	x			
UD	None	3/4"	x	x	x	x			
UF	3/4"	3/4"	x	x	x	x	x	x	x
UG	3/4"	1"	x*	x*	x				
UH	3/4"	1-1/4"		x*	x*	x*			
UJ	1"	3/4"	x*	x*	x	x			
UK	1-1/4"	3/4"		x*	x*	x*			
OC	1"	None	x	x*	x	x	x	x	x
OD	None	1"	x	x*	x	x	x	x	x
OF	1"	1"		x	x	x	x	x	x
OG	1"	1-1/4"		x	x*	x*			
OH	1"	1-1/2"			x*	x*	x*	x	x
OJ	1-1/4"	1"		x	x*	x*	x	x	x
OK	1-1/2"	1"			x*	x*	x*	x	x
OL	1-1/4"	1-1/4"			x*	x*	x	x	x
OM	1-1/4"	1-1/2"			x*	x*	x*	x	x
ON	1-1/4"	2"					x*	x*	x*
OP	1-1/2"	1-1/4"			x*	x*	x*	x	x
OQ	2"	1-1/4"					x*	x*	x*
OR	1-1/2"	1-1/2"				x*	x*	x	x
OS	1-1/2"	2"					x*	x*	x*
OV	2"	1-1/2"						x*	x*
OX	2"	2"							x
OA	1-1/4"	None		x*	x*	x*	x	x	x
OB	None	1-1/4"		x*	x*	x*	x	x	x
OE	1-1/2"	None			x*	x*	x*	x	x
OU	None	1-1/2"				x*	x*	x*	x
UB	1"	2"					x*	x*	x*
UQ	2"	1"						x*	x*
XB	2"	None						x*	x*
ZB	None	2"						x*	x*

ORB Codes

Code	Port Size		Gear Size						
	Left	Right	10	12	15	17	20	22	25
EC	3/4"	None	x*	x*	x	x	x		
ED	None	3/4"	x*	x*	x	x	x		
EF	3/4"	3/4"	x	x	x	x	x		
EG	3/4"	1"	x	x	x	x			
EH	3/4"	1-1/4"			x*	x*			
EJ	1"	3/4"	x	x	x	x	x		
EK	1-1/4"	3/4"				x*	x*		
AC	1"	None	x*	x*	x*	x*	x		
AD	None	1"	x*	x*	x*	x*	x	x	x
AF	1"	1"			x	x	x	x	x
AG	1"	1-1/4"			x*	x*	x		
AH	1"	1-1/2"					x*	x	x
AJ	1-1/4"	1"			x*	x*	x	x	x
AK	1-1/2"	1"					x*	x	x
AL	1-1/4"	1-1/4"						x	x
AM	1-1/4"	1-1/2"						x*	x*
AP	1-1/2"	1-1/4"						x*	x*
AR	1-1/2"	1-1/2"							x
AA	1-1/4"	None			x*	x*	x	x	x
AO	None	1-1/4"				x*	x*	x	x
AE	1-1/2"	None						x*	x*
AU	None	1-1/2"						x*	x*

Blank - No porting

Code	Port Size		Gear Size						
	Left	Right	10	12	15	17	20	22	25
AB	None	None	x	x	x	x	x	x	x

Gear Section ⁷

Code (Displacement - in³/r)

5	7	10	12	15	17	20	22	25
(1.28)	(1.91)	(2.55)	(3.19)	(3.83)	(4.46)	(5.10)	(5.74)	(6.38)

Bearing Carriers ⁹

NPT Codes

IN	OUT	CW (left)	CCW (right)
1"	None	TB	BT
1-1/4"	None	VB	BV
1-1/2"	None	WB	BW
1"	3/4"	TX	XT
1-1/4"	3/4"	VX	XV
1-1/2"	3/4"	WX	XW
1-1/4"	1"	VZ	ZV
1-1/2"	1"	WZ	ZW
1"	3/4"	TJ	JT
1-1/4"	3/4"	VJ	JV
1-1/4"	1"	VK	KV
1-1/2"	1"	WK	KW
1"	3/4"	ZX	XZ
1"	3/4"	ZS	SZ

Split Flange Codes

IN	OUT	CW (left)	CCW (right)
1"	None	LB	BL
1-1/4"	None	MB	BM
1-1/2"	None	NB	BN
None	3/4"	BR	RB
1"	3/4"	LR	RL
1-1/4"	3/4"	MR	RM
1-1/4"	1"	MS	SM
1-1/2"	3/4"	NR	RN
1-1/2"	1"	NS	SN
1"	3/4"	LX	XL
1-1/4"	3/4"	MX	XM
1-1/2"	3/4"	NZ	ZN
1-1/4"	1"	MZ	ZM
1-1/2"	1"	NZ	ZN
1"	3/4"	SR	RS
1"	3/4"	RZ	ZR

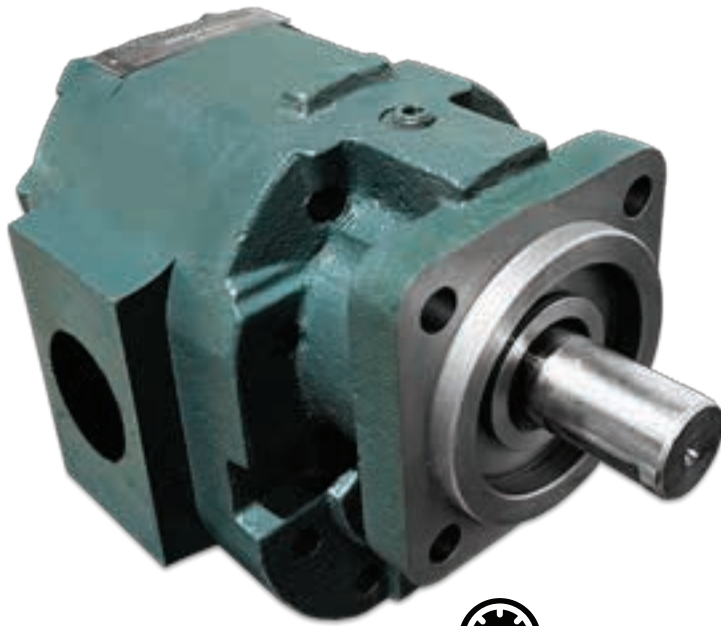
ORB Codes

IN	OUT	CW (left)	CCW (right)
1"	None	CB	BC
1-1/4"	None	DB	BD
1-1/2"	None	FB	BF
None	3/4"	PJ	JP
1"	3/4"	CJ	JC
1-1/4"	3/4"	DJ	JD
1-1/2"	3/4"	FJ	JF
1-1/4"	1"	DK	KD
1-1/2"	1"	FK	KF
1"	3/4"	CR	RC
1-1/4"	3/4"	DR	RD
1-1/2"	3/4"	FR	RF
1-1/4"	1"	DS	SD
1-1/2"	1"	FS	SF
1"	3/4"	KJ	JK
1"	3/4"	KX	XK

Blank - No Porting

IN	OUT	CW (left)	CCW (right)
None	None	C	D
None	None	B	B

- Consult the factory for other porting options.



76 SERIES - PUMPS & MOTORS

John Gear Pumps - 76 Series models are interchangeable with Commercial, Parker, Permco and Muncie.

They are available in a variety of mounting flanges, shaft configurations and porting options.

Our 76 series pumps offer working pressure up to 3000 psi ideal for the most demanding of applications.



HEAVY DUTY

Dowelled cast iron construction with working pressure up to 3000psi



OEM COMPATIBLE

Meeting or exceeding OEM. Our parts and assemblies are interchangeable with leading brands



BUILT TO ORDER

Choose the porting, mounting flange and shaft configuration to meet your needs

Specifications

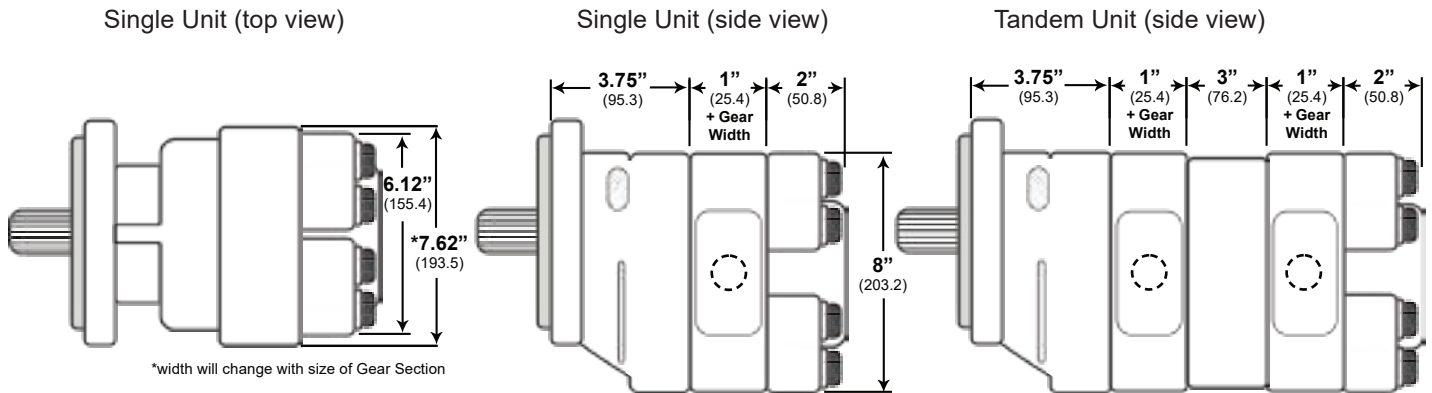
	GEAR WIDTH		DISPLACEMENT		MAX PRESSURE	
			IN ³ /REV	CM ³ /REV	PSI	BAR
0.75	3/4"		3.07	50.3	3000	207
1.00	1"		4.1	67.2	3000	207
1.25	1-1/4"		5.12	83.9	3000	207
1.50	1-1/2"		6.15	100.8	3000	207
1.75	1-3/4"		7.17	117.5	3000	207
2.00	2"		8.2	134.4	2500	172
2.25	2-1/4"		9.22	151.1	2500	172
2.50	2-1/2"		10.25	168	2500	172
2.75	3"		11.28	184.8	2000	138
3.00	3"		12.3	201.6	2000	138

Pump Performance Data

SPEED RPM	GEAR WIDTH GPM (LPM)															
	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"							
900	11.5 (43.5)	15.5 (58.5)	19.5 (74)	23 (87)	27 (102)	30.5 (115.5)	34.5 (130.5)	38 (144)	42 (159)							
1200	17 (64.5)	22 (83.5)	27 (102)	32 (121)	37.5 (142)	42 (159)	48 (181.5)	52.5 (198.5)	58 (219.5)							
1500	22 (83.5)	29 (110)	35.5 (134.5)	41.5 (157)	48 (181.5)	54.5 (206.5)	61 (231)	67 (253.5)	74 (280)							
1800	27.5 (104)	35.5 (134.5)	43.5 (164.5)	51 (193)	59 (223.5)	66 (250)	74 (280)	81.5 (308.5)	90 (340.5)							
2100	33 (125)	42 (159)	51.5 (195)	60 (227)	69.5 (263)	78 (295.5)	87 (329.5)	96.5 (365.5)	106 (401.5)							
2400	38 (144)	49 (185.5)	59.5 (225)	70 (265)	80 (303)	90 (340.5)	101 (382.5)	111 (420)	122 (462)							



Dimensions - INCHES (mm)



Approximate Weight - LBS (kg)

	GEAR WIDTH										
	1/2"	3/4"	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"
SINGLE	67 (30)	70 (32)	72 (33)	74 (34)	76 (34)	79 (36)	82 (37)	85 (39)	88 (40)	-	92 (42)
MULTI	54 (24)	57 (26)	60 (27)	63 (29)	65 (29)	67 (30)	69 (31)	71 (32)	74 (34)	-	76 (34)

For the total weight of a multiple unit add the weight from the row of the SINGLE unit to the weight from the row of the MULTI unit. (e.g. a tandem pump with a 1" gear at the front and a 1/2" gear on the rear would be 72lbs + 54lbs for a total of 126lbs

Motor Performance Data

RPM	INPUT FLOW		OUTPUT TORQUE		INPUT FLOW		OUTPUT TORQUE		INPUT FLOW		OUTPUT TORQUE	
	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)
	1"		1-1/2"		2"		2-1/2"		3"			
800	20.5 (77.5)	1410 (159.5)	28 (106)	2149 (243)	35.5 (134.5)	2875 (325)	43 (163)	3660 (414)	50.5 (191)	3625 (410)		
1200	27.5 (104)	1400 (158.5)	38 (144)	2149 (243)	49.5 (187.5)	2870 (324.5)	60.5 (229)	3650 (413)	72 (272.5)	3575 (404.5)		
1600	34 (128.5)	1375 (155.5)	49 (185.5)	2110 (238.5)	64 (242.5)	2830 (320)	78.5 (297)	3600 (407)	93 (352)	3500 (396)		
2000	41.5 (157)	1350 (152.5)	59 (223.5)	2090 (236.5)	78 (295.5)	2800 (316.5)	96.5 (365)	3500 (396)	114 (431.5)	3425 (387.5)		

Note: Input Flow @ 2500psi | Output Torque @172 bar

How to specify and code John Gear Pumps

This catalog contains codes for the most widely used models only; other assembly codes are available from our sales representatives. We offer pump or motors in both single and multistage units. The full code for a finished unit combines individual codes for PUMP TYPE¹, UNIT², SHAFT END COVER^{3&4}, PORT END COVER⁵, GEAR SECTION^{6&7}, and SHAFT CODE⁸. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER⁹ and another GEAR SECTION^{6&7} for each additional section and finish with one CONNECTING SHAFT¹⁰.

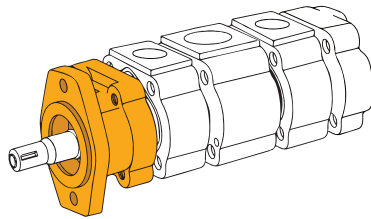
Model Code Breakdown

Repeat for multi-section unit

JGP76 - B - 3 42 - BI - ID 10 - 11 - MB - ID 07 - 1*

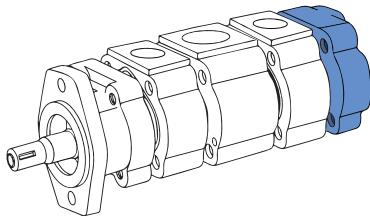
Type¹
JGP = Pump
JGM = Motor

Unit²
A = Single Unit
B = Tandem Unit
C = Continental Shaft



Shaft End Cover³

- 1 = Pump (Clockwise Rotation)
- 2 = Pump (Counter-clockwise Rotation)
- 3 = Pump (Double Rotation)
- 4 = Pump with Shaft Bearing (Clockwise Rotation)
- 5 = Pump with Shaft Bearing (Counter-clockwise Rotation)
- 6 = Pump with Shaft Bearing (Double Rotation)
- 8 = Motor with Shaft Bearing (Double Rotation)
- 9 = Motor (Double Rotation)



Shaft End Cover⁴

- 42 = 4-Bolt B
- 78 = 4-Bolt C
- 80 = 2-Bolt D
- 98 = 2-Bolt C

Port End Cover⁵

NPT Codes

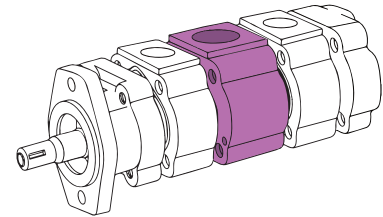
ORB Codes

Single Units	Tandem Units	Port Size	
BE	BY	Left	Right
BI	BY	None	None

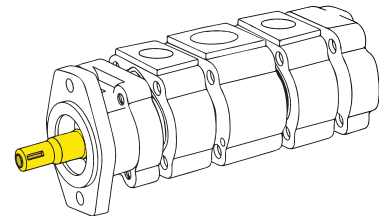
Single Units	Tandem Units	Port Size	
JE	JY	Left	Right
JI	JY	1"	1"

◦ Shaded cells include extended studs.

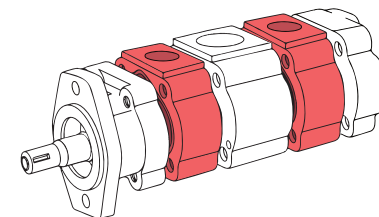
Connecting Shaft¹⁰
* for connecting multiple units
1 = Connecting Shaft



Bearing Carriers⁹
See next page for Bearing carrier options



Shaft Type⁸
07 = SAE 'C' 14 Tooth Spline 1.25" Dia.
11 = SAE 'C' Keyed Shaft 1.25" Dia.



Gear Section^{6&7}
see next page for options.

Gear Section ⁶

NPT Codes

Code	Port Size		Gear Size									
	Left	Right	7	10	12	15	17	20	22	25	27	30
IC	3/4"	None	x	x	x	x						
ID	None	3/4"	x	x	x	x						
IG	3/4"	1"		x	x	x						
IJ	1"	3/4"		x	x	x						
YC	1"	None			x	x	x	x				
YD	None	1"			x	x	x	x				
YF	1"	1"		x	x							
YG	1"	1-1/4"			x	x						
YJ	1-1/4"	1"			x	x						
YL	1-1/4"	1-1/4"			x	x	x					

- Ports marked with an 'x' are recommended porting. For all other porting please consult the factory.
- Shaded cells are good for Motor units.
- Ports marked with a 'x*' are low pressure inlet porting.
- NPT threads are not recommended for use at pressures in excess of 1500 PSI.

ORB Codes

Code	Port Size		Gear Size									
	Left	Right	7	10	12	15	17	20	22	25	27	30
EC	3/4"	None	x	x	x	x						
ED	None	3/4"	x	x	x	x						
EF	3/4"	3/4"	x									
EG	3/4"	1"	x		x	x						
EH	3/4"	1-1/4"		x*								
EJ	1"	3/4"	x*	x*	x	x						
EK	1-1/4"	3/4"		x*								
AC	1"	None			x	x						
AD	None	1"			x	x						
AF	1"	1"		x	x	x	x	x				
AG	1"	1-1/4"		x*	x*							
AH	1"	1-1/2"				x*						
AJ	1-1/4"	1"		x*	x*							
AK	1-1/2"	1"				x*						
AL	1-1/4"	1-1/4"				x	x	x	x	x	x	x
AM	1-1/4"	1-1/2"				x*	x*					
AP	1-1/2"	1-1/4"				x*	x*					
AR	1-1/2"	1-1/2"							x	x	x	

Split Flange Codes

Code	Port Size		Gear Size									
	Left	Right	7	10	12	15	17	20	22	25	27	30
UC	3/4"	None	x	x	x	x						
UD	None	3/4"	x	x	x	x						
UF	3/4"	3/4"	x									
UG	3/4"	1"	x*	x								
UH	3/4"	1-1/4"										
UJ	1"	3/4"	x*	x	x	x	x	x				
UK	1-1/4"	3/4"										
OC	1"	None		x								
OD	None	1"		x	x	x	x	x				
OF	1"	1"		x	x	x	x	x		x	x	x
OG	1"	1-1/4"		x*	x*	x						
OH	1"	1-1/2"			x*	x*	x*	x	x			
OJ	1-1/4"	1"		x*	x*	x	x	x	x	x		
OK	1-1/2"	1"										
OL	1-1/4"	1-1/4"			x	x	x	x	x	x	x	x
OM	1-1/4"	1-1/2"			x*	x*	x*	x*	x	x		
ON	1-1/4"	2"					x*	x*	x*	x*	x*	x*
OP	1-1/2"	1-1/4"			x*	x*	x*	x*	x	x	x	x
OQ	2"	1-1/4"					x*	x*	x*	x*	x*	x*
OR	1-1/2"	1-1/2"						x	x	x	x	x
OS	1-1/2"	2"						x*	x*	x*	x*	x*
OT	1-1/2"	2-1/2"									x	x
OV	2"	1-1/2"						x*	x*	x*	x*	x*
OW	2-1/2"	1-1/2"									x*	x*
OX	2"	2"										x
OA	1-1/4"	None		x	x	x	x	x	x			
UB	1"	2"								x*		
UQ	2"	1"								x*		
OB	None	1-1/4"		x	x	x	x	x	x			
OE	1-1/2"	None							x	x		
OU	None	1-1/2"							x	x	x	x
OY	2"	2-1/2"										x*
OZ	2-1/2"	2"										x*
UN	1-1/4"	2-1/2"										x*
US	2-1/2"	1-1/4"										x*

Blank - No porting

Code	Port Size		Gear Size									
	Left	Right	7	10	12	15	17	20	22	25	27	30
AB	None	None	x	x	x	x	x	x	x	x	x	x

Gear Section ⁷

Code (Displacement - in³/r)

7	10	12	15	17	20	22	25	27	30
(3.07)	(4.10)	(5.12)	(6.15)	(7.17)	(8.20)	(9.22)	(10.3)	(11.3)	(12.3)

Bearing Carriers ⁹

NPT Codes

IN	OUT	CW (left)	CCW (right)
1"	None	TB	BT
1-1/4"	None	VB	BV
1-1/2"	None	WB	BW
1-1/4"	3/4"	VX	XV
1-1/2"	3/4"	WX	XW
1-1/4"	3/4"	VJ	JV
1-1/4"	1"	VK	KV
1-1/2"	1"	WK	KW
1"	3/4"	ZX	XZ
1"	3/4"	ZS	SZ

Split Flange Codes

IN	OUT	CW (left)	CCW (right)
1"	None	LB	BL
1-1/4"	None	MB	BM
1-1/2"	None	NB	BN
None	3/4"	BR	RB
1"	3/4"	LR	RL
1-1/4"	3/4"	MR	RM
1-1/4"	1"	MS	SM
1-1/2"	3/4"	NR	RN
1-1/2"	1"	NS	SN
1"	3/4"	LX	XL
1-1/4"	3/4"	MX	XM
1-1/2"	3/4"	NZ	ZN
1-1/4"	1"	MZ	ZM
1-1/2"	1"	NZ	ZN
1"	3/4"	SR	RS
1"	3/4"	RZ	ZR

ORB Codes

IN	OUT	CW (left)	CCW (right)
1"	None	CB	BC
1-1/4"	None	DB	BD
1-1/2"	None	FB	BF
None	3/4"	PJ	JP
1"	3/4"	CJ	JC
1-1/4"	3/4"	DJ	JD
1-1/2"	3/4"	FJ	JF
1-1/4"	1"	DK	KD
1-1/2"	1"	FK	KF
1"	3/4"	CR	RC
1-1/4"	3/4"	DR	RD
1-1/2"	3/4"	FR	RF
1-1/4"	1"	DS	SD
1-1/2"	1"	FS	SF
1"	3/4"	KJ	JK
1"	3/4"	KX	XK

Blank - No Porting

IN	OUT	CW (left)	CCW (right)
None	None	C	D
None	None	B	B

- Consult the factory for other porting options.



315 SERIES - PUMPS & MOTORS

John Gear Pumps - 315 Series models are interchangeable with Commercial, Parker, Permco and Muncie.

They are available in a variety of mounting flanges, shaft configurations and porting options.

Our 315 series pumps offer working pressure up to 3500 psi ideal for the most demanding of applications.



HEAVY DUTY

Dowelled cast iron construction with working pressure up to 3500psi



OEM COMPATIBLE

Meeting or exceeding OEM. Our parts and assemblies are interchangeable with leading brands



BUILT TO ORDER

Choose the porting, mounting flange and shaft configuration to meet your needs

Specifications

Pump Performance Data

GEAR WIDTH	DISPLACEMENT IN ³ /REV	CM ³ /REV	MAX PRESSURE		SPEED RPM	GEAR WIDTH GPM (LPM)														
			PSI	BAR		1/2"	3/4"	1"	1-1/4"	1-1/2"	1-3/4"	2"								
0.50	1/2"	0.62	10.2	3500	241	900	2	(7.5)	3.2	(12)	4.4	(16.5)	5.5	(21)	6.7	(25.5)	7.9	(30)	9	(34)
0.75	3/4"	0.93	15.2	3500	241	1200	2.8	(10.5)	4.4	(16.5)	6	(22.5)	7.6	(29)	9.2	(35)	10.7	(40.5)	12.2	(46)
1.00	1"	1.24	20.3	3500	241	1500	3.6	(13.5)	5.6	(21)	7.7	(29)	9.6	(36.5)	11.6	(44)	13.5	(51)	15.4	(58.5)
1.25	1-1/4"	1.55	25.4	3500	241	1800	4.4	(16.5)	6.8	(25.5)	9.3	(35)	11.6	(44)	14	(53)	16.3	(61.5)	18.6	(70.5)
1.50	1-1/2"	1.86	30.5	3300	228	2100	5.2	(19.5)	8.1	(30.5)	10.9	(41.5)	13.6	(51.5)	16.4	(62)	19.1	(72.5)	21.8	(82.5)
1.75	1-3/4"	2.17	35.6	2900	200	2400	6	(22.5)	9.3	(35)	12.5	(47.5)	15.6	(59)	18.8	(71)	21.9	(83)	25.1	(95)
2.00	2"	2.48	40.6	2500	172	3000	7.7	(29)	11.7	(44.5)	15.7	(59.5)	19.6	(74)	23.7	(89.5)	27.6	(104.5)	31.5	(119)

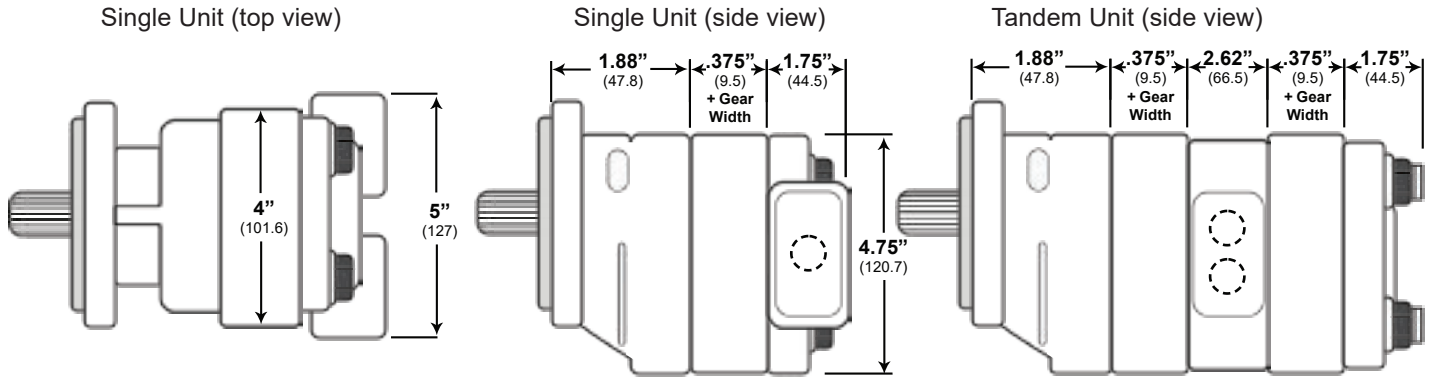
Motor Performance Data

SPEED RPM	INPUT FLOW		OUTPUT TORQUE		INPUT FLOW		OUTPUT TORQUE		INPUT FLOW		OUTPUT TORQUE	
	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)
	1"		1-1/2"		2"		2-1/2"		3"			
900	7.1 (27)	665 (75)	8.3 (31.5)	830 (94)	9.6 (36.5)	940 (106.5)	10.9 (41.5)	965 (109)	12.2 (46)	950 (107.5)		
1200	8.8 (33.5)	665 (75)	10.5 (39.5)	830 (94)	12.2 (46)	940 (106.5)	13.8 (52)	965 (109)	15.5 (58.5)	950 (107.5)		
1500	10.6 (40)	665 (75)	12.6 (47.5)	825 (93.5)	14.7 (55.5)	935 (105.5)	16.7 (63)	955 (108)	18.8 (71)	945 (107)		
1800	12.3 (46.5)	665 (75)	14.7 (55.5)	820 (92.5)	17.2 (65)	930 (105)	19.6 (74)	950 (107.5)	22.1 (83.5)	940 (106.5)		
2100	14 (53)	665 (75)	16.8 (63.5)	820 (92.5)	19.7 (74.5)	930 (105)	22.5 (85)	950 (107.5)	25.4 (96)	940 (106.5)		
2400	15.7 (59.5)	640 (72.5)	18.9 (71.5)	800 (90.5)	22.2 (84)	910 (103)	25.4 (96)	930 (105)	28.8 (109)	920 (104)		
3000	19 (72)	640 (72.5)	23 (87)	800 (90.5)	27.2 (103)	905 (102.5)	31.2 (118)	925 (104.5)	35.3 (133.5)	915 (103.5)		

Note: Input Flow @ 2500psi | Output Torque @175 bar



Dimensions - INCHES (mm)



Approximate Weight - LBS (kg)

	GEAR WIDTH										
	1/2"	3/4"	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"
SINGLE	16 (7)	17 (8)	18 (8)	19 (9)	20 (9)	21 (10)	22 (10)	-	-	-	-
MULTI	16 (7)	17 (8)	18 (8)	19 (9)	20 (9)	21 (10)	22 (10)	-	-	-	-

For the total weight of a multiple unit add the weight from the row of the SINGLE unit to the weight from the row of the MULTI unit. (e.g. a tandem pump with a 1" gear at the front and a 1/2" gear on the rear would be 18lbs + 16lbs for a total of 34lbs)



How to specify and code John Gear Pumps

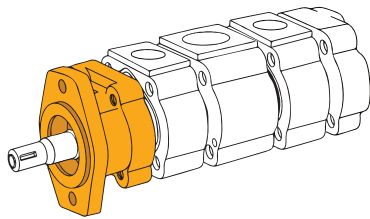
This catalog contains codes for the most widely used models only; other assembly codes are available from our sales representatives. We offer pump or motors in both single and multistage units. The full code for a finished unit combines individual codes for PUMP TYPE¹, UNIT², SHAFT END COVER^{3&4}, PORT END COVER⁵, GEAR SECTION^{6&7}, and SHAFT CODE⁸. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER⁹ and another GEAR SECTION^{6&7} for each additional section and finish with one CONNECTING SHAFT¹⁰.

Model Code Breakdown

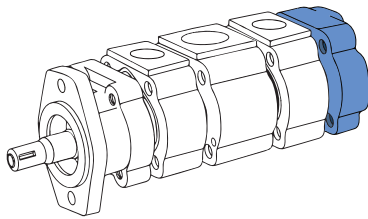
Repeat for multi-section unit

JGP315 - L - 1 93 - BI - AB 07 - 65 - KB - AB 07 - 1*

- Type**¹
JGP = Pump
JGM = Motor
- Unit**²
A = Single Unit
B = Tandem Unit
C = Continental Shaft
L = Unit with Extended Studs



- Shaft End Cover**³
1 = Pump (Clockwise Rotation)
2 = Pump (Counter-clockwise Rotation)
9 = Motor (Double Rotation)

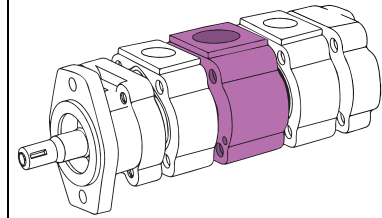


- Shaft End Cover**⁴
93 = 2-Bolt A
96 = 2-Bolt B

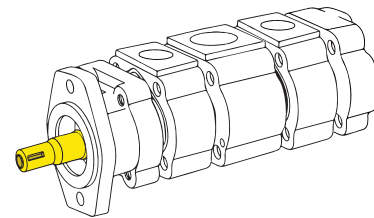
Port End Cover⁵

NPT Codes				ORB Codes				ORB Codes				ORB Codes				
CW	CCW	Side Port		CW	CCW	Side Port		CW	CCW	Side Port		CW	CCW	Rear Port		
		In	Out			In	Out			In	Out			In	Out	
		BI	None	None	FB	BF	1-1/4"	1"	BW	WB	1"	None	UC	CU	1-1/4"	1"
AJ	JA	1-1/4"	1"	FB	CF	1-1/4"	7/8"	BX	XB	7/8"	None	UF	FU	1-1/4"	7/8"	
AK	KA	1-1/4"	3/4"	FG	GF	1-1/4"	3/4"	BY	YB	3/4"	None	UN	NU	1-1/4"	3/4"	
AL	LA	1"	1"	FJ	JF	1-1/4"	5/8"	BZ	ZB	None	1"	UD	DU	1"	1"	
AM	MA	1"	3/4"	FL	LF	1"	1"	PD	DP	None	7/8"	UP	PU	1"	7/8"	
AR	RA	3/4"	3/4"	FV	VF	1"	7/8"	PE	EP	None	3/4"	UQ	QU	1"	3/4"	
	DQ	1/2"	1"	FW	WF	1"	3/4"	PM	MP	None	5/8"	UR	RU	1"	5/8"	
	DN	3/4"	3/4"	FX	XF	1"	5/8"	PN	NP	None	1/2"	LN	NL	7/8"	7/8"	
	DM	1"	1"	FY	YF	7/8"	7/8"	VN		1"	1"	LP	PL	7/8"	3/4"	
				FZ	ZF	7/8"	3/4"	VR		3/4"	3/4"	LQ	QL	7/8"	5/8"	
				BC	CB	7/8"	5/8"	VQ		1/2"	1/2"	LR	RL	3/4"	3/4"	
				BG	GB	7/8"	1/2"	◻ Shaded cells are good for motors				LS	SL	3/4"	5/8"	
				BJ	JB	3/4"	3/4"					LT	TL	3/4"	1/2"	
				BL	LB	3/4"	5/8"					RN		1"	1"	
				BN	NB	3/4"	1/2"					RQ		3/4"	3/4"	
				BV	VB	1-1/4"	None	RS		1/2"	1/2"					

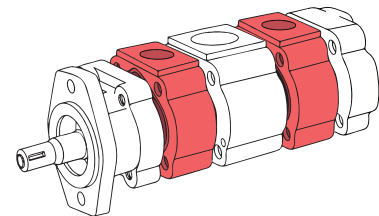
- Connecting Shaft**¹⁰
 * for connecting multiple units
 1 = Connecting Shaft



- Bearing Carriers**⁹
 See next page for Bearing carrier options



- Shaft Type**⁸
65 = SAE 'B' 13 Tooth Spline 0.875" Dia. (Type 2)
66 = SAE 'B' Keyed 0.875" Dia. (Type 2)
96 = SAE 'A' 9 Tooth Spline 0.625" Dia. (Type 2)
97 = SAE 'A' Keyed 0.625" Dia. (Type 2)



- Gear Section**^{6&7}
 see next page for options.



Gear Section ⁶

Blank - No Porting

Code	Port Size		Gear Size							
	In	Out	5	7	10	12	15	17	20	
AB	None	None	x	x	x	x	x	x	x	Pump
EB	None	None	x	x	x	x	x	x	x	Motor

Gear Section ⁷

Code (Displacement - in³/r)

5	7	10	12	15	17	20
(.62)	(.93)	(1.24)	(1.55)	(1.86)	(2.17)	(2.48)

Bearing Carriers ⁹

ORB Codes - Dual output

IN	OUT ¹	OUT ²	CW (left)	CCW (right)
1-1/2"	1"	1"		
1-1/2"	1"	7/8"	JG	GJ
1-1/2"	1"	7/8"	KG	GK
1-1/2"	7/8"	7/8"	LG	GL
1-1/2"	1"	3/4"	MG	GM
1-1/2"	3/4"	3/4"	NG	GN
1-1/4"	1"	1"	PG	GP
1-1/4"	1"	7/8"	QG	GQ
1-1/4"	7/8"	7/8"	RG	GR
1-1/4"	1"	3/4"	SG	GS
1-1/4"	3/4"	3/4"	TG	GT
1-1/4"	3/4"	5/8"	UG	GU
1-1/4"	3/4"	1/2"	VG	GV
1-1/4"	5/8"	5/8"	WG	GW
1-1/4"	1/2"	1/2"	XG	GX
1"	1"	1"	YG	GY
1"	1"	7/8"	ZG	GZ
1"	7/8"	7/8"	RC	CR
1"	1"	3/4"	SC	CS
1"	3/4"	3/4"	TC	CT
1"	3/4"	5/8"	VC	CV
1"	3/4"	1/2"	WC	CW
1"	5/8"	5/8"	XC	CX
1"	1/2"	1/2"	YC	CY

ORB Codes - Single output

IN	OUT	CW (left)	CCW (right)
1-1/2"	1-1/2"		
1-1/2"	1-1/4"	KB	BK
1-1/2"	1-1/4"	KC	CK
1-1/2"	1"	KF	FK
1-1/2"	7/8"	KL	LK
1-1/2"	3/4"	KM	MK
1-1/4"	1-1/4"	KN	NK
1-1/4"	1"	KO	OK
1-1/4"	7/8"	KP	PK
1-1/4"	3/4"	KQ	QK
1-1/4"	5/8"	MB	BM
1-1/4"	1/2"	ML	LM
1"	1"	MN	NM
1"	7/8"	MQ	QM
1"	3/4"	MR	RM
1"	5/8"	MS	SM
1"	1/2"	MT	TM
3/4"	3/4"	MU	UM
3/4"	5/8"	MV	VM
3/4"	1/2"	MW	WM

Split Flange Codes - Single output

IN	OUT	CW (left)	CCW (right)
1-1/4"	1-1/4"		
1-1/4"	1"	CJ	JC
1-1/4"	3/4"	CL	LC
1-1/4"	1/2"	CM	MC
1"	1"	HB	BH
1"	3/4"	HC	CH
1"	1/2"	HF	FH
3/4"	3/4"	HL	LH
3/4"	1/2"	HM	MH
3/4"	1/2"	HN	NH

Split Flange Codes - Dual output

IN	OUT ¹	OUT ²	CW (left)	CCW (right)
1-1/4"	3/4"	3/4"		
1-1/4"	3/4"	1/2"	CA	AC
1-1/4"	1/2"	1/2"	DA	AD
1"	3/4"	3/4"	EA	AE
1"	3/4"	1/2"	FA	AF
1"	1/2"	1/2"	GA	AG
1"	1/2"	1/2"	HA	AH

◦ Out¹ - 1st section from shaft, Out² - 2nd section from shaft



330 SERIES - PUMPS & MOTORS

John Gear Pumps - 330 Series models are interchangeable with Commercial, Parker, Permco and Muncie.

They are available in a variety of mounting flanges, shaft configurations and porting options.

Our 330 series pumps offer working pressure up to 3500 psi ideal for the most demanding of applications.



HEAVY DUTY

Dowelled cast iron construction with working pressure up to 3500psi



OEM COMPATIBLE

Meeting or exceeding OEM. Our parts and assemblies are interchangeable with leading brands



BUILT TO ORDER

Choose the porting, mounting flange and shaft configuration to meet your needs

Specifications

Pump Performance Data

GEAR WIDTH	DISPLACEMENT IN ³ /REV	MAX PRESSURE CM ³ /REV	PSI	BAR	SPEED RPM	GEAR WIDTH GPM (LPM)							
						1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	
0.50	1/2"	0.99	16.2	3500	241	900	3.2 (12)	5.1 (19.5)	7 (26.5)	8.8 (33.5)	10.6 (40)	12.4 (47)	14.3 (54)
0.75	3/4"	1.48	24.3	3500	241	1200	4.5 (17)	7 (26.5)	9.5 (36)	12 (45.5)	14.5 (55)	16.9 (64)	19.4 (73.5)
1.00	1"	1.97	32.3	3500	241	1500	5.8 (22)	8.9 (33.5)	12.1 (46)	15.2 (57.5)	18.3 (69.5)	21.4 (81)	24.5 (92.5)
1.25	1-1/4"	2.46	40.3	3500	241	1800	7.1 (27)	10.8 (41)	14.7 (55.5)	18.4 (69.5)	22.1 (83.5)	25.9 (98)	29.6 (112)
1.50	1-1/2"	2.96	48.5	3500	241	2100	8.4 (32)	12.7 (48)	17.2 (65)	21.6 (82)	26 (98.5)	30.3 (114.5)	34.7 (131.5)
1.75	1-3/4"	3.45	56.5	3250	224	2400	9.6 (36.5)	14.7 (55.5)	19.8 (75)	24.8 (94)	29.8 (113)	34.8 (131.5)	39.8 (150.5)
2.00	2"	3.94	64.6	3000	207	3000	12.2 (46)	18.5 (70)	24.9 (94.5)	31.2 (118)	37.5 (142)	43.8 (166)	50.1 (189.5)

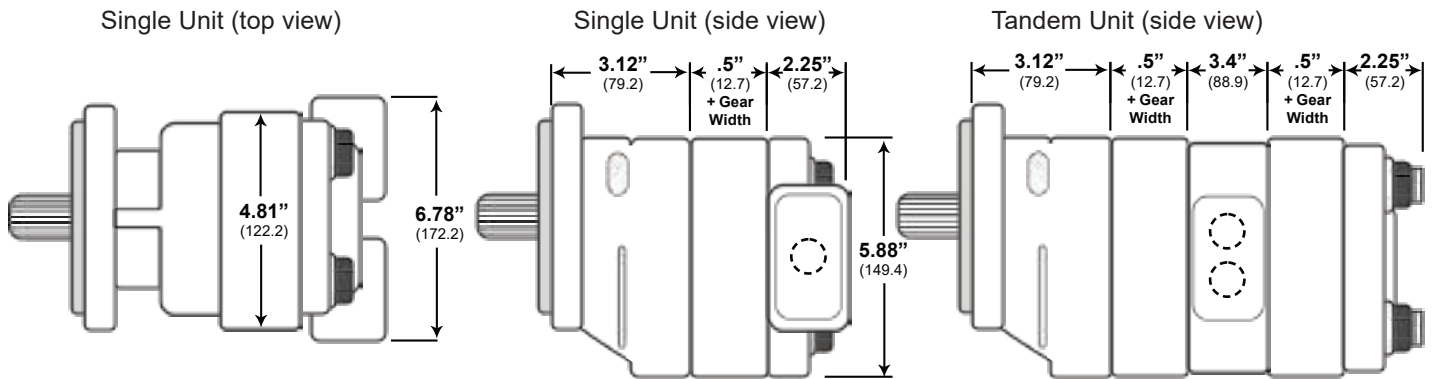
Motor Performance Data

SPEED RPM	INPUT FLOW GPM (LPM)		OUTPUT TORQUE IN/LBS (NM)		INPUT FLOW GPM (LPM)		OUTPUT TORQUE IN/LBS (NM)		INPUT FLOW GPM (LPM)		OUTPUT TORQUE IN/LBS (NM)	
	1"	1-1/2"	1-1/2"	2"	2-1/2"	3"						
900	10.1 (38)	1010 (114)	12.3 (46.5)	1270 (143.5)	14.5 (55)	1530 (173)	16.7 (63)	1665 (188.5)	19 (72)	1770 (200)		
1200	12.8 (48.5)	1005 (113.5)	15.7 (59.5)	1265 (143)	18.6 (70.5)	1525 (172.5)	21.4 (81)	1660 (187.5)	24.3 (92)	1760 (199)		
1500	15.6 (59)	1000 (113)	19.1 (72.5)	1255 (142)	22.6 (85.5)	1515 (171.5)	26.1 (99)	1650 (186.5)	29.6 (112)	1750 (198)		
1800	18.4 (69.5)	995 (112.5)	22.5 (85)	1250 (141.5)	26.6 (100.5)	1505 (170)	30.8 (116.5)	1640 (185.5)	34.9 (132)	1740 (197)		
2100	21.1 (80)	990 (112)	25.9 (98)	1240 (140)	30.7 (116)	1495 (169)	35.4 (134)	1625 (184)	40.2 (152)	1720 (194.5)		
2400	23.9 (90.5)	985 (111.5)	29.3 (111)	1235 (139.5)	34.7 (131.5)	1480 (167.5)	40.1 (152)	1605 (181.5)	45.5 (172)	1695 (191.5)		
3000	29.2 (111)	980 (111)	35.9 (136)	1230 (139)	42.6 (161)	1475 (167)	49.3 (187)	1595 (180.5)	56 (212)	1685 (190.5)		

Note: Input Flow @ 2500psi | Output Torque @175 bar



Dimensions - INCHES (mm)



Approximate Weight - LBS (kg)

	GEAR WIDTH										
	1/2"	3/4"	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"
SINGLE	-	35 (16)	36 (16)	37 (17)	39 (18)	40 (18)	41 (19)	-	-	-	-
MULTI	-	31 (14)	33 (15)	34 (15)	35 (15)	37 (17)	38 (17)	-	-	-	-

For the total weight of a multiple unit add the weight from the row of the SINGLE unit to the weight from the row of the MULTI unit. (e.g. a tandem pump with a 1" gear at the front and a 3/4" gear on the rear would be 36lbs + 31lbs for a total of 67lbs)

**Quality Gear Products
Assembled and Tested in
Ontario, Canada**

How to specify and code John Gear Pumps

This catalog contains codes for the most widely used models only; other assembly codes are available from our sales representatives. We offer pump or motors in both single and multistage units. The full code for a finished unit combines individual codes for PUMP TYPE¹, UNIT², SHAFT END COVER^{3&4}, PORT END COVER⁵, GEAR SECTION^{6&7}, and SHAFT CODE⁸. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER⁹ and another GEAR SECTION^{6&7} for each additional section and finish with one CONNECTING SHAFT¹⁰.

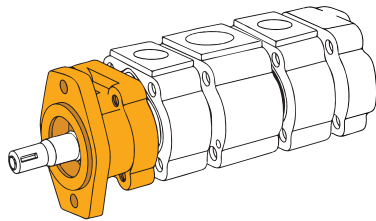
Model Code Breakdown

Repeat for multi-section unit

JGP330 - L - 1 42 - BI - AB 07 - 65 - KB - AB 07 - 1 *

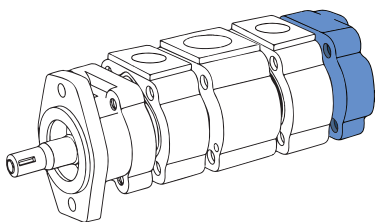
Type¹
 JGP = Pump
 JGM = Motor

Unit²
 A = Single Unit
 B = Tandem Unit
 C = Continental Shaft
 L = Unit with Extended Studs



Shaft End Cover³
 1 = Pump (Clockwise Rotation)
 2 = Pump (Counter-clockwise Rotation)
 4 = Pump with Shaft Bearing (Clockwise Rotation)
 5 = Pump with Shaft Bearing (Counter-clockwise Rotation)
 8 = Motor with Shaft Bearing (Double Rotation)
 9 = Motor (Double Rotation)

Shaft End Cover⁴
 42 = 4-Bolt B
 46 = 2/4-Bolt B
 78 = 4-Bolt C
 97 = 2-Bolt B



Port End Cover⁵

ORB Codes

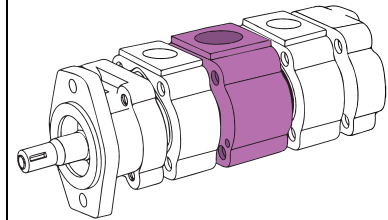
CW	CCW	Side Port	
		In	Out
BI		None	None
BA		None	None
VC		1-1/4"	1-1/4"
VN		1"	1"
VR		3/4"	3/4"
FJ	JF	1-1/4"	1"
FL	LF	1"	1"
BG	GB	1-1/4"	None
BJ	JB	1"	None
BN	NB	None	1"

Split Flange Codes

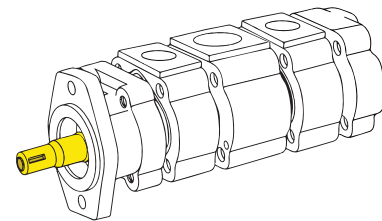
CW	CCW	Side Port	
		In	Out
CS		1-1/4"	1-1/4"
CT		1"	1"
CV		3/4"	3/4"
EJ	JE	1-1/2"	1-1/4"
EK	KE	1-1/2"	1"
EL	LE	1-1/4"	1-1/4"
EM	ME	1-1/4"	1"
EN	NE	1"	1"
OF	FO	1-1/2"	None
OG	GO	1-1/4"	None
OJ	JO	1"	None
OM	MO	None	1-1/4"
ON	NO	None	1"

▫ Shaded cells are good for motors

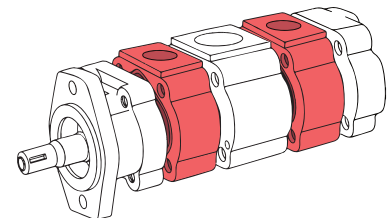
Connecting Shaft¹⁰
 * for connecting multiple units
 1 = Connecting Shaft



Bearing Carriers⁹
 See next page for Bearing carrier options



Shaft Type⁸
 7 = SAE 'C' 14 Tooth Spline 1.25" Dia. (Cont. Only)
 25 = SAE 'B' 13 Tooth Spline 0.875" Dia.
 30 = SAE 'B' Keyed 0.875" Dia.
 43 = SAE 'BB' Keyed 1" Dia.
 98 = SAE 'BB' 15 Tooth Spline 1" Dia.



Gear Section^{6&7}
 see next page for options.



Gear Section ⁶

Blank - No Porting

Code	Port Size		Gear Size							
	In	Out	5	7	10	12	15	17	20	
AB	None	None	x	x	x	x	x	x	x	Pump
EB	None	None	x	x	x	x	x	x	x	Motor

Gear Section ⁷

Code (Displacement - in³/r)

5	7	10	12	15	17	20
(.99)	(1.48)	(1.97)	(2.46)	(2.96)	(3.45)	(3.94)

Bearing Carriers ⁹

ORB Codes - Dual output

IN	OUT ¹	OUT ²	CW (left)	CCW (right)
1-1/2"	1"	1"		
1-1/4"	1"	1"	GV	VG
1"	1"	1"	GY	YG
			GZ	ZG

ORB Codes - Single output

IN	OUT	CW (left)	CCW (right)
KM	MK	1-1/2"	1-1/4"
KN	NK	1-1/2"	1"
KO	OK	1-1/4"	1-1/4"
KP	PK	1-1/4"	1"
KQ	QK	1"	1"

ORB Codes - Combined

IN	OUT	CW (left)	CCW (right)
1-1/2"	1-1/4"	PQ	QP
1-1/4"	1-1/4"	PR	RP
1-1/4"	1-1/4"	NN	
1"	1"	QQ	
3/4"	3/4"	RR	

Split Flange Codes - Dual output

IN	OUT ¹	OUT ²	CW (left)	CCW (right)
2"	1-1/4"	1-1/4"	AM	MA
2"	1-1/4"	1"	AN	NA
2"	1"	1"	AP	PA
1-1/2"	1-1/4"	1-1/4"	AT	TA
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

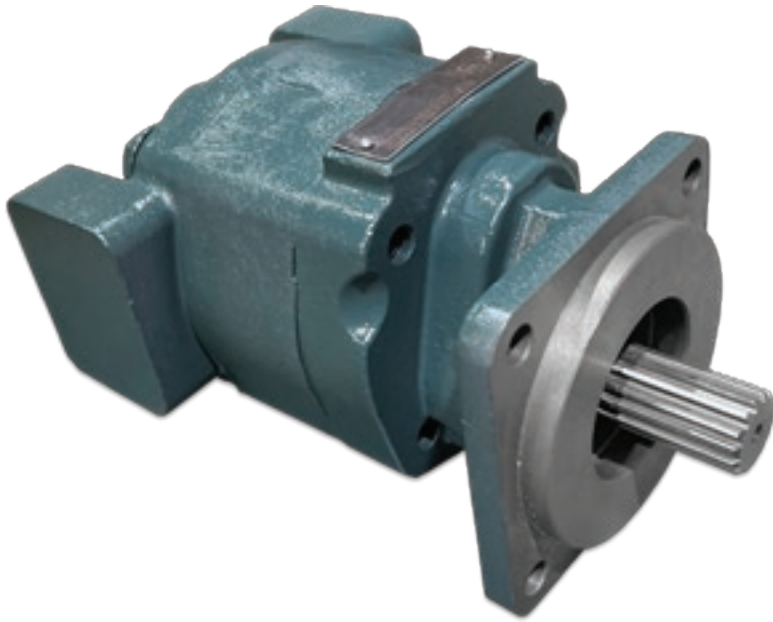
Split Flange Codes - Single output

IN	OUT	CW (left)	CCW (right)
2"	1-1/2"	HB	BH
2"	1-1/4"	HC	CH
2"	1"	HF	FH
1-1/2"	1-1/2"	HL	LH
1-1/2"	1-1/4"	HM	MH
1-1/2"	1"	HN	NH
1-1/4"	1-1/4"	HO	OH
1-1/4"	1"	HP	PH
1"	1"	HQ	QH
1-1/4"	1"	RS	SR

Split Flange Codes - Combined

IN	OUT	CW (left)	CCW (right)
2"	1-1/2"	UN	NU
2"	1-1/4"	UO	OU
1-1/2"	1-1/2"	UP	PU
1-1/2"	1-1/4"	UQ	QU
1-1/4"	1-1/4"	UR	RU
1-1/2"	1-1/2"	BB	
1-1/4"	1-1/4"	CC	
1"	1"	EE	
3/4"	3/4"	FF	

◦ Out¹ - 1st section from shaft, Out² - 2nd section from shaft



350 SERIES - PUMPS & MOTORS

John Gear Pumps - 350 Series models are interchangeable with Commercial, Parker, Permco and Muncie.

They are available in a variety of mounting flanges, shaft configurations and porting options.

Our 350 series pumps offer working pressure up to 3500 psi ideal for the most demanding of applications.



HEAVY DUTY

Dowelled cast iron construction with working pressure up to 3500psi



OEM COMPATIBLE

Meeting or exceeding OEM. Our parts and assemblies are interchangeable with leading brands



BUILT TO ORDER

Choose the porting, mounting flange and shaft configuration to meet your needs

Specifications

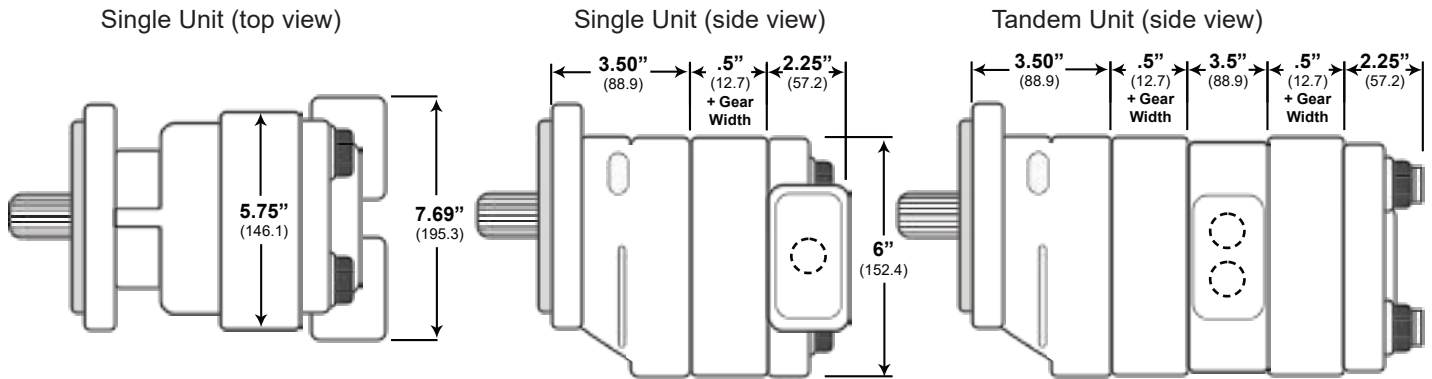
	GEAR WIDTH		DISPLACEMENT		MAX PRESSURE	
			IN ³ /REV	CM ³ /REV	PSI	BAR
0.50	1/2"		1.28	21	3500	241
0.75	3/4"		1.91	31.3	3500	241
1.00	1"		2.55	41.8	3500	241
1.25	1-1/4"		3.19	52.3	3500	241
1.50	1-1/2"		3.83	62.8	3500	241
1.75	1-3/4"		4.46	73.1	3250	224
2.00	2"		5.1	83.6	3000	207
2.25	2-1/4"		5.74	94.1	2750	190
2.50	2-1/2"		6.38	104.5	2500	172

Pump Performance Data

RPM	GEAR WIDTH - GPM (LPM)									
	1/2"	3/4"	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	
900	4 (15)	6.4 (24)	8.8 (33.5)	11.2 (42.5)	13.7 (52)	16.1 (61)	18.6 (70.5)	21 (79.5)	23.4 (88.5)	
1200	5.6 (21)	8.8 (33.5)	12.1 (46)	15.4 (58.5)	18.7 (71)	21.9 (83)	25.2 (95.5)	28.4 (107.5)	31.7 (120)	
1500	7.3 (27.5)	11.3 (43)	15.5 (58.5)	19.5 (74)	23.6 (89.5)	27.7 (105)	31.8 (120.5)	35.9 (136)	40 (151.5)	
1800	8.9 (33.5)	13.8 (52)	18.8 (71)	23.6 (89.5)	28.6 (108.5)	33.5 (127)	38.4 (145.5)	43.4 (164.5)	48.3 (183)	
2100	10.6 (40)	16.3 (61.5)	22.1 (83.5)	27.8 (105)	33.6 (127)	39.3 (149)	45.1 (170.5)	50.8 (192.5)	56.6 (214.5)	
2400	12.2 (46)	18.8 (71)	25.4 (96)	31.9 (121)	38.5 (145.5)	45.1 (170.5)	51.7 (195.5)	58.2 (220.5)	64.8 (245.5)	



Dimensions - INCHES (mm)



Approximate Weight - LBS (kg)

	GEAR WIDTH										
	1/2"	3/4"	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"
SINGLE	-	50 (23)	51 (23)	53 (24)	54 (24)	56 (25)	57 (26)	59 (27)	60 (27)	-	-
MULTI	-	50 (23)	51 (23)	53 (24)	54 (24)	56 (25)	57 (26)	59 (27)	60 (27)	-	-

For the total weight of a multiple unit add the weight from the row of the SINGLE unit to the weight from the row of the MULTI unit. (e.g. a tandem pump with a 1" gear at the front and a 3/4" gear on the rear would be 51lbs + 50lbs for a total of 101lbs

Motor Performance Data

RPM	INPUT FLOW		OUTPUT TORQUE		INPUT FLOW		OUTPUT TORQUE		INPUT FLOW		OUTPUT TORQUE	
	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)	GPM (LPM)	IN/LBS (NM)
	1"		1-1/4"		1-1/2"		1-3/4"		2"			
900	7.1 (27)	665 (75)	8.3 (31.5)	830 (94)	9.6 (36.5)	925 (104.5)	10.9 (41.5)	965 (109)	12.2 (46)	950 (107.5)		
1200	8.8 (33.5)	665 (75)	10.5 (39.5)	830 (94)	12.2 (46)	925 (104.5)	13.8 (52)	965 (109)	15.5 (58.5)	950 (107.5)		
1500	10.6 (40)	665 (75)	12.6 (47.5)	825 (93.5)	14.7 (55.5)	920 (104)	16.7 (63)	955 (108)	18.8 (71)	945 (107)		
1800	12.3 (46.5)	665 (75)	14.7 (55.5)	820 (92.5)	17.2 (65)	915 (103.5)	19.6 (74)	950 (107.5)	22.1 (83.5)	940 (106.5)		
2100	14 (53)	665 (75)	16.8 (63.5)	820 (92.5)	19.7 (74.5)	915 (103.5)	22.5 (85)	950 (107.5)	25.4 (96)	940 (106.5)		
2400	15.7 (59.5)	640 (72.5)	18.9 (71.5)	800 (90.5)	22.2 (84)	895 (101)	25.4 (96)	930 (105)	28.8 (109)	920 (104)		

Note: Input Flow @ 2500psi | Output Torque @175 bar

How to specify and code John Gear Pumps

This catalog contains codes for the most widely used models only; other assembly codes are available from our sales representatives. We offer pump or motors in both single and multistage units. The full code for a finished unit combines individual codes for PUMP TYPE¹, UNIT², SHAFT END COVER^{3&4}, PORT END COVER⁵, GEAR SECTION^{6&7}, and SHAFT CODE⁸. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER⁹ and another GEAR SECTION^{6&7} for each additional section and finish with one CONNECTING SHAFT¹⁰.

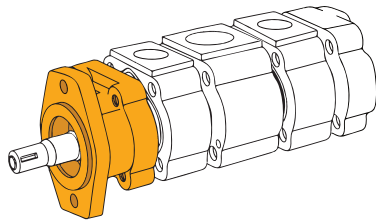
Model Code Breakdown

Repeat for multi-section unit

JGP350 - L - 1 42 - BI - AB 07 - 25 - KB - AB 07 - 1*

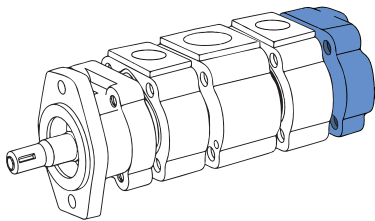
Type ¹
JGP = Pump
JGM = Motor

Unit ²
A = Single Unit
B = Tandem Unit
C = Continental Shaft
L = Unit with Extended Studs



Shaft End Cover ³
1 = Pump (Clockwise Rotation)
2 = Pump (Counter-clockwise Rotation)
4 = Pump with Shaft Bearing (Clockwise Rotation)
5 = Pump with Shaft Bearing (Counter-clockwise Rotation)
8 = Motor with Shaft Bearing (Double Rotation)
9 = Motor (Double Rotation)

Shaft End Cover ⁴
42 = 4-Bolt B
46 = 2/4-Bolt B
78 = 4-Bolt C
97 = 2-Bolt B
98 = 2-Bolt C



Port End Cover ⁵

ORB Codes

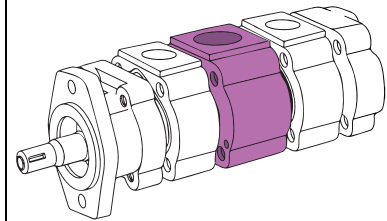
Split Flange Codes

Split Flange Codes

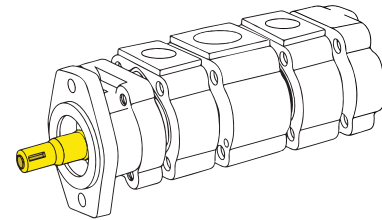
CW		CCW		Side Port	
CW	CCW	In	Out	CW	CCW
BI	None	None	None	EC	CE
BA	None	None	None	EF	FE
VC	1-1/4"	1-1/4"	1-1/4"	EG	GE
VN	1"	1"	1"	EH	HE
VR	3/4"	3/4"	3/4"	EJ	JE
FB	BF	1-1/2"	1-1/4"	EK	KE
FC	CF	1-1/2"	1"	EL	LE
FG	GF	1-1/4"	1-1/4"	EM	ME
FJ	JF	1-1/4"	1"	EN	NE
FL	LF	1"	1"	EO	OE
BC	CB	1-1/2"	None	OF	FO
BG	GB	1-1/4"	None	OG	GO
BJ	JB	1"	None	OJ	JO
BL	LB	None	1-1/4"	OL	LO
BN	NB	None	1"	OM	MO

▫ Shaded cells are good for motors

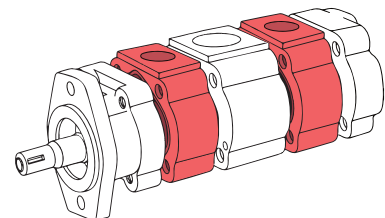
Connecting Shaft ¹⁰
 * for connecting multiple units
 1 = Connecting Shaft



Bearing Carriers ⁹
 See next page for Bearing carrier options



Shaft Type ⁸
7 = SAE 'C' 14 Tooth Spline 1.25" Dia. (Cont. Only)
11 = SAE 'C' Keyed 1.25" Dia.
25 = SAE 'B' 13 Tooth Spline 0.875" Dia.
43 = SAE 'BB' Keyed 1" Dia.
98 = SAE 'BB' 15 Tooth Spline 1" Dia.



Gear Section ^{6&7}
 see next page for options.



Gear Section ⁶

Blank - No Porting

Code	Port Size		Gear Size									
	In	Out	5	7	10	12	15	17	20	22	25	
AB	None	None	x	x	x	x	x	x	x	x	x	Pump
EB	None	None	x	x	x	x	x	x	x	x	x	Motor

Gear Section ⁷

Code (Displacement - in³/r)

5	7	10	12	15	17	20	22	25
(1.28)	(1.91)	(2.55)	(3.19)	(3.83)	(4.46)	(5.10)	(5.74)	(6.38)

Bearing Carriers ⁹

ORB Codes - Dual output

IN	OUT ¹	OUT ²	CW (left)	CCW (right)
2"	1-1/4"	1-1/4"	GM	MG
2"	1-1/4"	1"	GN	NG
2"	1"	1"	GP	PG
1-1/2"	1-1/4"	1-1/4"	GT	TG
1-1/2"	1-1/4"	1"	GU	UG
1-1/2"	1"	1"	GV	VG
1-1/4"	1-1/4"	1-1/4"	GW	WG
1-1/4"	1-1/4"	1"	GX	XG
1-1/4"	1"	1"	GY	YG
1"	1"	1"	GZ	ZG

ORB Codes - Single output

IN	OUT	CW (left)	CCW (right)
2"	1-1/2"	KB	BK
2"	1-1/4"	KC	CK
2"	1"	KF	FK
1-1/2"	1-1/2"	KL	LK
1-1/2"	1-1/4"	KM	MK
1-1/2"	1"	KN	NK
1-1/4"	1-1/4"	KO	OK
1-1/4"	1"	KP	PK
1"	1"	KQ	QK

ORB Codes - Combined

IN	OUT	CW (left)	CCW (right)
2"	1-1/2"	PE	EP
2"	1-1/4"	PM	MP
1-1/2"	1-1/2"	PN	NP
1-1/2"	1-1/4"	PQ	QP
1-1/4"	1-1/4"	PR	RP
1-1/2"	1-1/2"		MM
1-1/4"	1-1/4"		NN
1"	1"		QQ
3/4"	3/4"		RR

Split Flange Codes - Dual output

IN	OUT ¹	OUT ²	CW (left)	CCW (right)
2-1/2"	1-1/4"	1-1/4"	AF	FA
2-1/2"	1-1/4"	1"	AG	GA
2-1/2"	1"	1"	AH	HA
2"	1-1/4"	1-1/4"	AM	MA
2"	1-1/4"	1"	AN	NA
2"	1"	1"	AP	PA
1-1/2"	1-1/4"	1-1/4"	AT	TA
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"	TA	YA
1"	1"	1"	AZ	ZA

Split Flange Codes - Single output

IN	OUT	CW (left)	CCW (right)
2"	1-1/2"	HB	BH
2"	1-1/4"	HC	CH
2"	1"	HF	FH
1-1/2"	1-1/2"	HL	LH
1-1/2"	1-1/4"	HM	MH
1-1/2"	1"	HN	NH
1-1/4"	1-1/4"	HO	OH
1-1/4"	1"	HP	PH
1"	1"	HQ	QH

Split Flange Codes - Combined

IN	OUT	CW (left)	CCW (right)
2"	1-1/2"	UN	NU
2"	1-1/4"	UO	OU
1-1/2"	1-1/2"	UP	PU
1-1/2"	1-1/4"	UQ	QU
1-1/4"	1-1/4"	UR	RU
2"	2"		AA
1-1/2"	1-1/2"		BB
1-1/4"	1-1/4"		CC
1"	1"		EE
3/4"	3/4"		FF

IN	OUT	CW (left)	CCW (right)
1-1/4"	1"	RS	SR

IN	OUT	CW (left)	CCW (right)
None	None	C	D

- Out¹ - 1st section from shaft, Out² - 2nd section from shaft
- Shaded cells are good for motors.



365 SERIES - PUMPS & MOTORS

John Gear Pumps - 365 Series models are interchangeable with Commercial, Parker, Permco and Muncie.

They are available in a variety of mounting flanges, shaft configurations and porting options.

Our 365 series pumps offer working pressure up to 3500 psi ideal for the most demanding of applications.



HEAVY DUTY

Dowelled cast iron construction with working pressure up to 3500psi



OEM COMPATIBLE

Meeting or exceeding OEM. Our parts and assemblies are interchangeable with leading brands



BUILT TO ORDER

Choose the porting, mounting flange and shaft configuration to meet your needs

Specifications

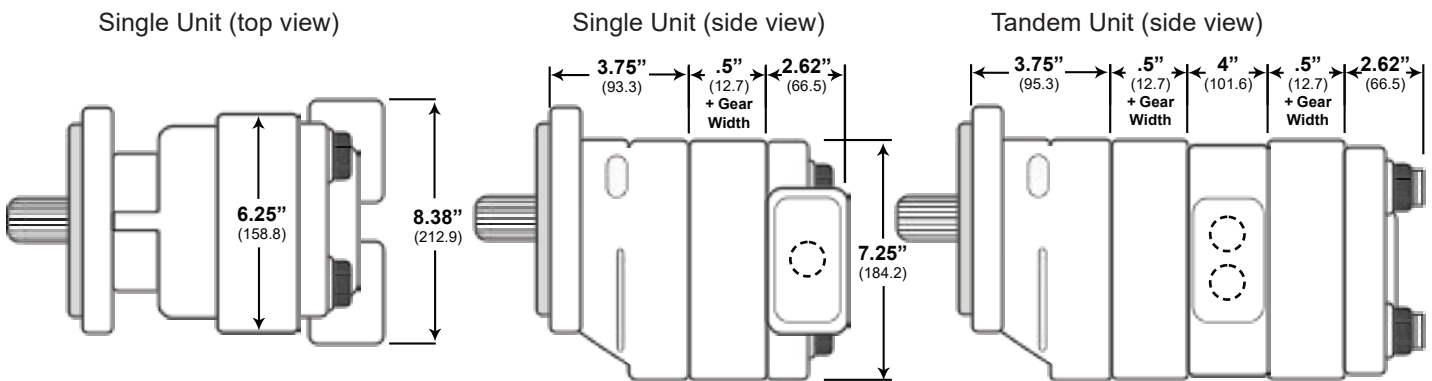
	GEAR WIDTH		DISPLACEMENT		MAX PRESSURE	
			IN ³ /REV	CM ³ /REV	PSI	BAR
0.75	3/4"	3/4"	2.7	44.2	3500	241
1.00	1"	1"	3.6	59	3500	241
1.25	1-1/4"	1-1/4"	4.5	73.7	3500	241
1.50	1-1/2"	1-1/2"	5.4	88.5	3500	241
1.75	1-3/4"	1-3/4"	6.3	103.2	3500	241
2.00	2"	2"	7.2	118	3500	241
2.25	2-1/4"	2-1/4"	8.1	132.7	3250	224
2.50	2-1/2"	2-1/2"	9	147.5	3000	207

Pump Performance Data

RPM	GEAR WIDTH - GPM (LPM)															
	3/4"		1"		1-1/4"		1-1/2"		1-3/4"		2"		2-1/4"		2-1/2"	
900	8	(30.5)	11.5	(43.5)	14.9	(56.5)	18.4	(69.5)	21.8	(82.5)	25.4	(96)	28.8	(109)	32.3	(122.5)
1200	11.5	(43.5)	16.2	(61.5)	20.8	(78.5)	25.5	(96.5)	30	(113.5)	34.7	(131.5)	39.3	(149)	44	(166.5)
1500	15	(57)	20.9	(79)	26.6	(100.5)	32.5	(123)	38.2	(144.5)	44.1	(167)	49.8	(188.5)	55.6	(210.5)
1800	18.5	(70)	25.6	(97)	32.5	(123)	39.5	(149.5)	46.4	(175.5)	53.4	(202)	60.3	(228.5)	67.3	(255)
2100	22	(83.5)	30.2	(114.5)	38.3	(145)	46.5	(176)	54.6	(206.5)	62.8	(237.5)	70.8	(268)	79	(299)
2400	25.6	(97)	34.9	(132)	44.2	(167.5)	53.5	(202.5)	62.8	(237.5)	72.1	(273)	81.4	(308)	90.7	(343.5)



Dimensions - INCHES (mm)



Approximate Weight - LBS (kg)

	GEAR WIDTH										
	1/2"	3/4"	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"
SINGLE	-	-	56 (25)	59 (27)	61 (28)	64 (29)	66 (30)	69 (31)	71 (32)	74 (34)	76 (34)
MULTI	-	-	56 (25)	59 (27)	61 (28)	64 (29)	66 (30)	69 (31)	71 (32)	74 (34)	76 (34)

For the total weight of a multiple unit add the weight from the row of the SINGLE unit to the weight from the row of the MULTI unit. (e.g. a tandem pump with a 1-1/4" gear at the front and a 1" gear on the rear would be 59lbs + 56lbs for a total of 115lbs

Motor Performance Data

RPM	GEAR WIDTH													
	1"		1-1/4"		1-1/2"		1-3/4"		2"		2-1/4"		2-1/2"	
	F	T	F	T	F	T	F	T	F	T	F	T	F	T
900	18.4 (69.5)	1865 (211)	22 (83.5)	2355 (266.5)	25.6 (97)	2860 (323.5)	29.2 (110.5)	3370 (381)	32.9 (124.5)	3850 (435.5)	36.5 (138)	4020 (454.5)	40.1 (152)	4125 (466.5)
1200	23.3 (88)	1845 (208.5)	28.1 (106.5)	2330 (263.5)	32.9 (124.5)	2840 (321)	37.6 (142.5)	3335 (377)	42.4 (160.5)	3810 (431)	47.2 (178.5)	3980 (450)	52 (197)	4080 (461.5)
1500	28.2 (106.5)	1815 (205.5)	34.1 (129)	2295 (259.5)	40.1 (152)	2780 (314.5)	46 (174)	3280 (371)	52 (197)	3750 (424)	57.9 (219)	3915 (443)	63.8 (241.5)	4020 (454.5)
1800	33.1 (125.5)	1805 (204)	40.2 (152)	2280 (258)	47.3 (179)	2765 (312.5)	54.5 (206.5)	3265 (369.5)	61.5 (233)	3730 (422)	68.6 (259.5)	3895 (440.5)	75.7 (286.5)	3995 (452)
2100	37.9 (143.5)	1755 (198.5)	46.2 (175)	2220 (251)	54.4 (206)	2690 (304)	62.8 (237.5)	3160 (357.5)	71.1 (269)	3610 (408.5)	79.3 (300)	3770 (426.5)	87.6 (331.5)	3865 (437)
2400	42.8 (162)	1705 (193)	52.3 (198)	2155 (243.5)	61.7 (233.5)	2615 (296)	71.2 (269.5)	3055 (345.5)	80.6 (305)	3490 (394.5)	90.1 (341)	3645 (412)	99.5 (376.5)	3740 (423)

Note: Input Flow @ 2500psi | Output Torque @175 bar F: Input Flow - GPM (lpm), T: Output Torque - In/lbs. (Nm)

How to specify and code John Gear Pumps

This catalog contains codes for the most widely used models only; other assembly codes are available from our sales representatives. We offer pump or motors in both single and multistage units. The full code for a finished unit combines individual codes for PUMP TYPE¹, UNIT², SHAFT END COVER^{3&4}, PORT END COVER⁵, GEAR SECTION^{6&7}, and SHAFT CODE⁸. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER⁹ and another GEAR SECTION^{6&7} for each additional section and finish with one CONNECTING SHAFT¹⁰.

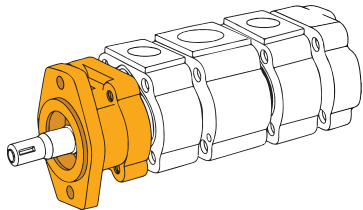
Model Code Breakdown

Repeat for multi-section unit

JGP365 - L - 1 42 - BI - AB 07 - 25 - KB - AB 07 - 1*

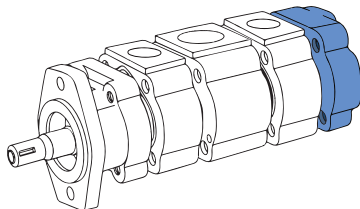
Type¹
JGP = Pump
JGM = Motor

Unit²
A = Single Unit
B = Tandem Unit
C = Continental Shaft
L = Unit with Extended Studs



Shaft End Cover³
1 = Pump (Clockwise Rotation)
2 = Pump (Counter-clockwise Rotation)
4 = Pump with Shaft Bearing (Clockwise Rotation)
5 = Pump with Shaft Bearing (Counter-clockwise Rotation)
8 = Motor with Shaft Bearing (Double Rotation)
9 = Motor (Double Rotation)

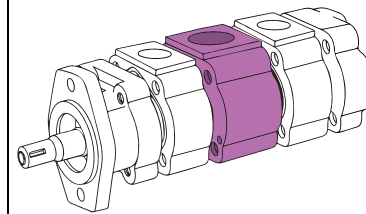
Shaft End Cover⁴
42 = 4-Bolt B
78 = 4-Bolt C
97 = 2-Bolt B
98 = 2-Bolt C



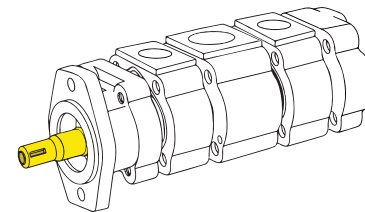
Port End Cover⁵

ORB Codes			Split Flange Codes				Split Flange Codes			
BI	None	None	EC	CE	2"	1-1/2"	ON	NO	None	1"
BA	None	None	EF	FE	2"	1-1/4"	CR	1-1/2"	1-1/2"	
VC	1-1/4"	1-1/4"	EG	GE	2"	1"	CS	1-1/4"	1-1/4"	
VN	1"	1"	EH	HE	1-1/2"	1-1/4"	CT	1"	1"	
VR	3/4"	3/4"	EJ	JE	1-1/2"	1-1/4"	CV	3/4"	3/4"	
FB	BF	1-1/2"	1-1/4"	EK	KE	1-1/2"	1"	◻ Shaded cells are good for motors		
FC	CF	1-1/2"	1"	EL	LE	1-1/4"	1-1/4"			
FG	GF	1-1/4"	1-1/4"	EM	ME	1-1/4"	1"			
FJ	JF	1-1/4"	1"	EN	NE	1"	1"			
FL	LF	1"	1"	EO	OE	2"	None			
BC	CB	1-1/2"	None	OF	FO	1-1/2"	None			
BG	GB	1-1/4"	None	OG	GO	1-1/4"	None			
BJ	JB	1"	None	OJ	JO	1"	None			
BL	LB	None	1-1/4"	OL	LO	None	1-1/2"			
BN	NB	None	1"	OM	MO	None	1-1/4"			

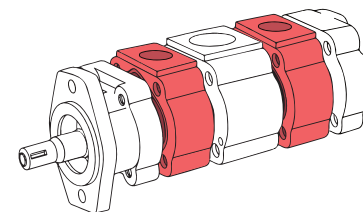
Connecting Shaft¹⁰
* for connecting multiple units
1 = Connecting Shaft



Bearing Carriers⁹
See next page for Bearing carrier options



Shaft Type⁸
7 = SAE 'C' 14 Tooth Spline 1.25" Dia.
11 = SAE 'C' Keyed 1.25" Dia.



Gear Section^{6&7}
see below and next page for options.

Gear Section⁶
Blank - No Porting

Code	Port Size		Gear Size								
	In	Out	7	10	12	15	17	20	22	25	
AB	None	None	x	x	x	x	x	x	x	x	Pump
EB	None	None	x	x	x	x	x	x	x	x	Motor



Gear Section ⁷

Code (Displacement - in³/r)

7 (2.70)	10 (3.60)	12 (4.50)	15 (5.40)	17 (6.30)	20 (7.20)	22 (8.10)	25 (9.00)
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Bearing Carriers ⁹

ORB Codes - Dual output

IN	OUT ¹	OUT ²	CW (left)	CCW (right)
2"	1-1/2"	1-1/2"	GJ	JG
2"	1-1/2"	1-1/4"	GK	KG
2"	1-1/2"	1"	GL	LG
2"	1-1/4"	1-1/4"	GM	MG
2"	1-1/4"	1"	GN	NG
2"	1"	1"	GP	PG
1-1/2"	1-1/2"	1-1/2"	GQ	QG
1-1/2"	1-1/2"	1-1/4"	GR	RG
1-1/2"	1-1/2"	1"	GS	SG
1-1/2"	1-1/4"	1-1/4"	GT	TG
1-1/2"	1-1/4"	1"	GU	UG
1-1/2"	1"	1"	GV	VG
1-1/4"	1-1/4"	1-1/4"	GW	WG
1-1/4"	1-1/4"	1"	GX	XG
1-1/4"	1"	1"	GY	YG
1"	1"	1"	GZ	ZG

ORB Codes - Single output

IN	OUT	CW (left)	CCW (right)
2"	1-1/2"	KB	BK
2"	1-1/4"	KC	CK
2"	1"	KF	FK
1-1/2"	1-1/2"	KL	LK
1-1/2"	1-1/4"	KM	MK
1-1/2"	1"	KN	NK
1-1/4"	1-1/4"	KO	OK
1-1/4"	1"	KP	PK
1"	1"	KQ	QK

ORB Codes - Combined

IN	OUT	CW (left)	CCW (right)
2"	1-1/2"	PE	EP
2"	1-1/4"	PM	MP
1-1/2"	1-1/2"	PN	NP
1-1/2"	1-1/4"	PQ	QP
1-1/4"	1-1/4"	PR	RP
1-1/2"	1-1/2"	MM	
1-1/4"	1-1/4"	NN	
1"	1"	QQ	
3/4"	3/4"	RR	

IN	OUT	CW (left)	CCW (right)
None	None		
		C	D

Split Flange Codes - Dual output

IN	OUT ¹	OUT ²	CW (left)	CCW (right)
2-1/2"	1-1/2"	1-1/2"	AC	CA
2-1/2"	1-1/2"	1-1/4"	AD	DA
2-1/2"	1-1/2"	1"	AE	EA
2-1/2"	1-1/4"	1-1/4"	AF	FA
2-1/2"	1-1/4"	1"	AG	GA
2-1/2"	1"	1"	AH	HA
2"	1-1/2"	1-1/2"	AJ	JA
2"	1-1/2"	1-1/4"	AK	KA
2"	1-1/2"	1"	AL	LA
2"	1-1/4"	1-1/4"	AM	MA
2"	1-1/4"	1"	AN	NA
2"	1"	1"	AP	PA
1-1/2"	1-1/2"	1-1/2"	AQ	QA
1-1/2"	1-1/2"	1-1/4"	AR	RA
1-1/2"	1-1/2"	1"	AS	SA
1-1/2"	1-1/4"	1-1/4"	AT	TA
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

Split Flange Codes - Single output

IN	OUT	CW (left)	CCW (right)
2-1/2"	1-1/2"	CJ	JC
2-1/2"	1-1/4"	CL	LC
2-1/2"	1"	CM	MC
2"	1-1/2"	HB	BH
2"	1-1/4"	HC	CH
2"	1"	HF	FH
1-1/2"	1-1/2"	HL	LH
1-1/2"	1-1/4"	HM	MH
1-1/2"	1"	HN	NH
1-1/4"	1-1/4"	HO	OH
1-1/4"	1"	HP	PH
1"	1"	HQ	QH
2-1/2"	1-1/2"	NR	RN
1-1/4"	1"	RS	SR

Split Flange Codes - Combined

IN	OUT	CW (left)	CCW (right)
2-1/2"	1-1/2"	UC	CU
2-1/2"	1-1/4"	UF	FU
2"	1-1/2"	UN	NU
2"	1-1/4"	UO	OU
1-1/2"	1-1/2"	UP	PU
1-1/2"	1-1/4"	UQ	QU
1-1/4"	1-1/4"	UR	RU
2"	2"	AA	
1-1/2"	1-1/2"	BB	
1-1/4"	1-1/4"	CC	
1"	1"	EE	
3/4"	3/4"	FF	

- Out¹ - 1st section from shaft, Out² - 2nd section from shaft
- Shaded cells are good for motors.