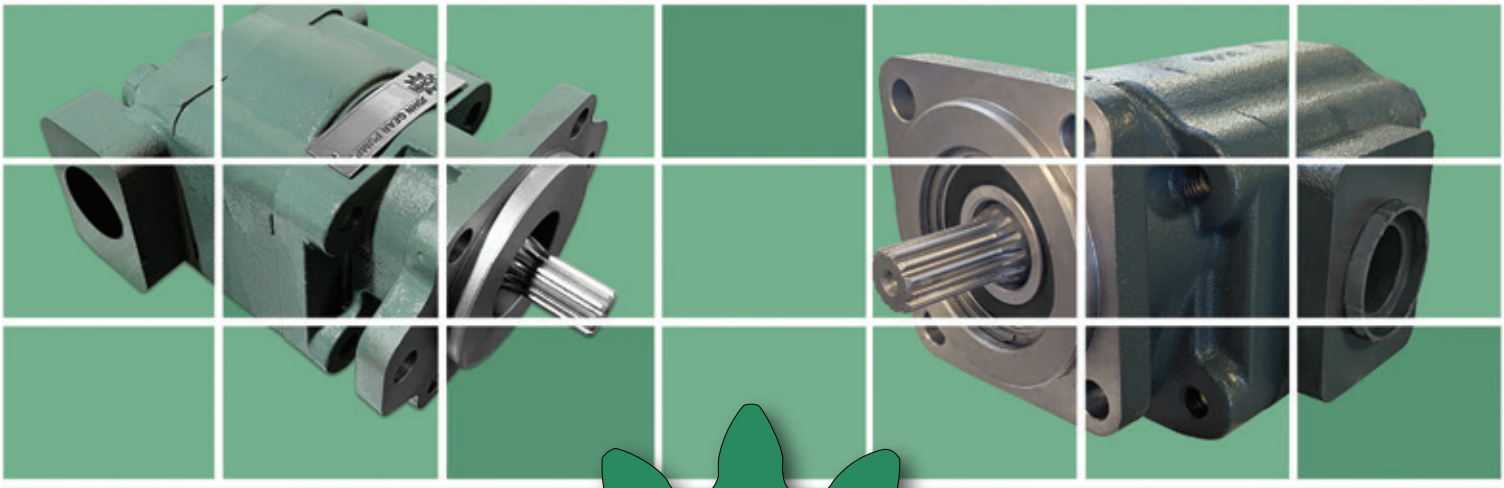


JOHN GEAR Pumps

www.johngearpumps.com

HIGH QUALITY GEAR PRODUCTS

Bearing and bushing style pumps and motors

JGTC-2024.V1.1

CONTENTS

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 COMPATIABLE

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	
		IN³/REV	CM³/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)				
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)

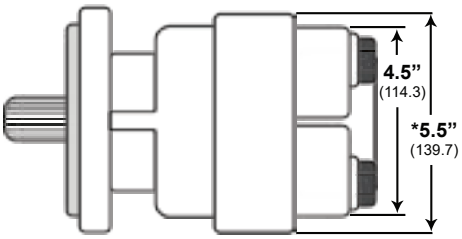
Motor Performance Data

SPEED	1"		1-1/2"		2"	
	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)
RPM						
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

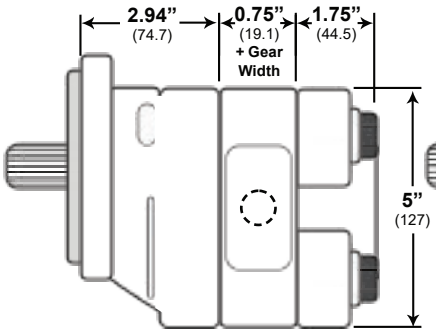
Dimensions - INCHES (mm)

Single Unit (top view)

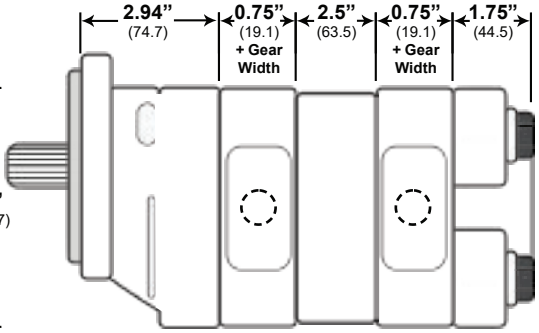


*width will change with size of Gear Section

Single Unit (side view)



Tandem Unit (side view)



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 TYPE[1], UNIT[2], SHAFT END COVER[3&4], PORT END COVER[5], GEAR SECTION[6&7], and SHAFT CODE[8]. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER[9] and another GEAR SECTION[6&7] for each additional section and finish with one CONNECTING SHAFT[10].

Model Code Breakdown

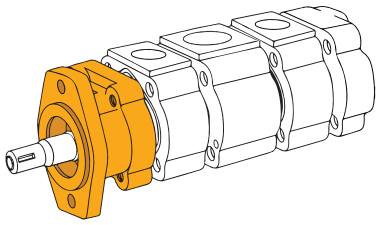
Repeat for multi-section unit

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

1 2 3 4 5 6 7 8 9 6 7 10

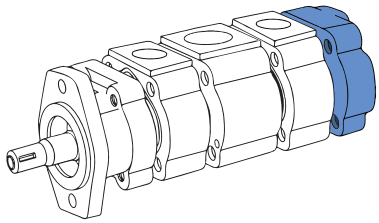
Type [1]
JGP = Pump
JGM = Motor

Unit [2]
A = Single Unit
B = Tandem Unit
C = Continental Shaft



Shaft End Cover [3]
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 Cover [4]
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 Cover [5]

NPT Codes

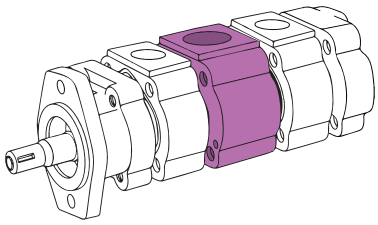
Single Units		Tandem Units		Port Size	
				Left	Right
BE	BY	BI	BY	None	None
KE	KY	KI	KY	3/4"	None
LE	LY	LI	LY	None	3/4"
ME	MY	MI	MY	3/4"	3/4"
QU	QQ	QO	QQ	1"	1"
AI		AI		3/4"	1"
EI		EI		1"	3/4"

ORB Codes

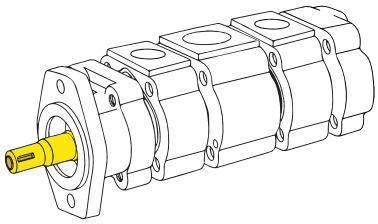
Single Units		Tandem Units		Port Size	
				Left	Right
CE	CY	CI	CY	3/4"	None
DE	DY	DI	DY	None	3/4"
FE	FY	FI	FY	3/4"	3/4"
GE	GY	GI	GY	1"	3/4"
HE	HY	HI	HY	3/4"	1"
JE	JY	JI	JY	1"	1"
MA	YO	MU	YO	1"	None
RA	RO	SU	RO	None	1"

▫ *Shaded cells include extended studs.*

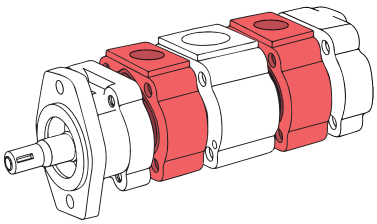
Connecting Shaft [10]
* *for connecting multiple units*
1 = Connecting Shaft



Bearing Carriers [9]
See next page for Bearing carrier options



Shaft Type [8]
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		07	10	12	15	17	20
	Left	Right						
UC	3/4"	None	x	x	x	x	x	x
UD	None	3/4"	x	x	x	x	x	x
UF	3/4"	3/4"	x	x	x	x	x	
UG	3/4"	1"		x	x	x	x	x
UH	3/4"	1-1/4"			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	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		07	10	12	15	17	20
	Left	Right						
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
EH	3/4"	1-1/4"				x*	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	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
AD	None	1"		x*	x	x	x	x
AF	1"	1"			x*	x	x	x
AG	1"	1-1/4"			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
AO	None	1-1/4"			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 (0.99)	07 (1.48)	10 (1.97)	12 (2.46)	15 (2.96)	17 (3.45)	20 (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

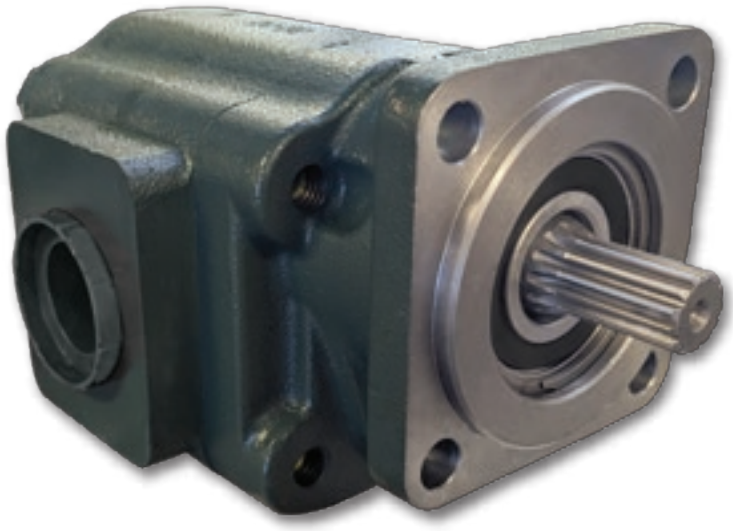
ORB Codes

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

John Gear Pumps - 31 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 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 COMPATIABLE

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	
		IN³/REV	CM³/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)

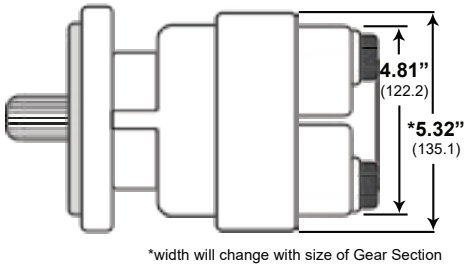
Motor Performance Data

SPEED	1"		1-1/2"		2"	
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)
800	9 (34)	675 (76.5)	13 (49)	1035 (117)	17 (64.5)	1385 (156.5)
1200	13 (49)	685 (77.5)	18 (68)	1055 (119.5)	23.5 (89)	1410 (159.5)
1600	16 (60.5)	680 (77)	23 (87)	1030 (116.5)	30.5 (115.5)	1390 (157)
2000	19.5 (74)	660 (74.5)	28 (106)	1010 (114)	37 (140)	1370 (155)

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

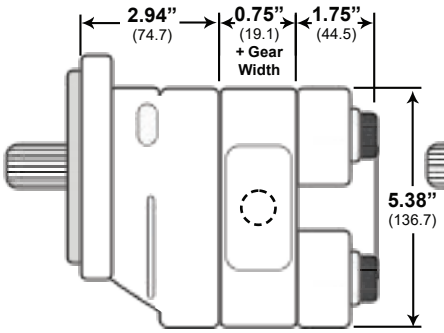
Dimensions - INCHES (mm)

Single Unit (top view)

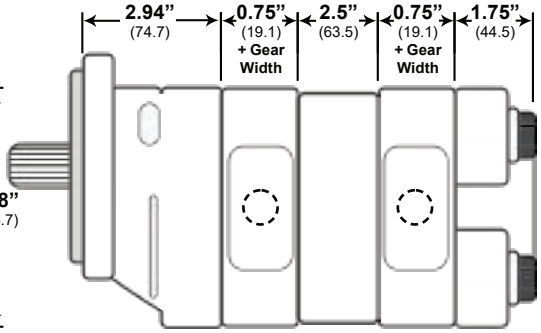


*width will change with size of Gear Section

Single Unit (side view)



Tandem Unit (side view)



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

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 TYPE[1], UNIT[2], SHAFT END COVER[3&4], PORT END COVER[5], GEAR SECTION[6&7], and SHAFT CODE[8]. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER[9] and another GEAR SECTION[6&7] for each additional section and finish with one CONNECTING SHAFT[10].

Model Code Breakdown

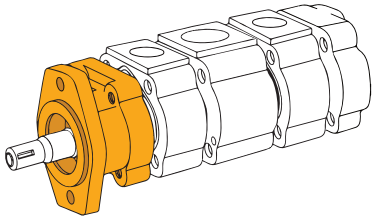
Repeat for multi-section unit

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

1 2 3 4 5 6 7 8 9 6 7 10

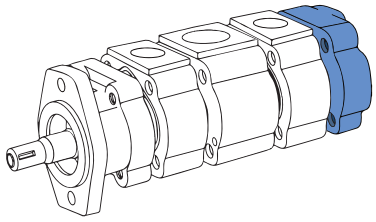
Type [1]
JGP = Pump
JGM = Motor

Unit [2]
A = Single Unit
B = Tandem Unit
C = Continental Shaft



Shaft End Cover [3]
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 Cover [4]
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 Cover [5]

NPT Codes

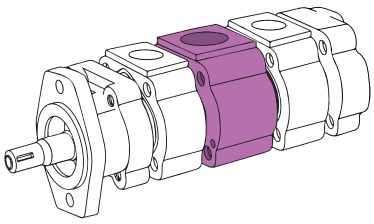
Single Units		Tandem Units		Port Size	
				Left	Right
BE	BY	BI	BY	None	None
KE	KY	KI	KY	3/4"	None
LE	LY	LI	LY	None	3/4"
ME	MY	MI	MY	3/4"	3/4"
QU		QU		1"	1"

ORB Codes

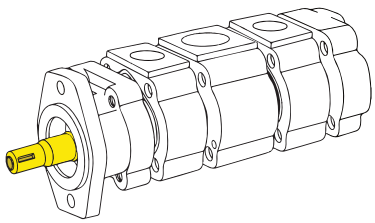
Single Units		Tandem Units		Port Size	
				Left	Right
CE	CY	CI	CY	3/4"	None
DE	DY	DI	DY	None	3/4"
FE	FY	FI	FY	3/4"	3/4"
GE	GY	GI	GY	1"	3/4"
JE	JY	JI	JY	1"	1"
MA	YO	MU	YO	1"	None
RA	RO	SU	RO	None	1"

▫ *Shaded cells include extended studs.*

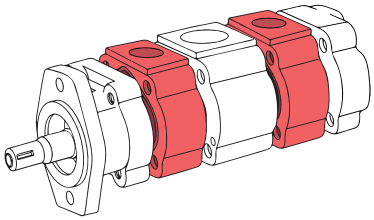
Connecting Shaft [10]
* *for connecting multiple units*
1 = Connecting Shaft



Bearing Carriers [9]
See next page for Bearing carrier options



Shaft Type [8]
07 = SAE 'C' 14 Tooth Spline 1.250" Dia. *(Cont. Only)*
12 = Keyed Shaft .75" Dia. *(Cont. Only)*
25 = SAE 'B' 13Tooth 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	x
YK	1-1/2"	1"						x*	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
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		07	10	12	15	17	20
	Left	Right						
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
UH	3/4"	1-1/4"			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		07	10	12	15	17	20
	Left	Right						
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	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

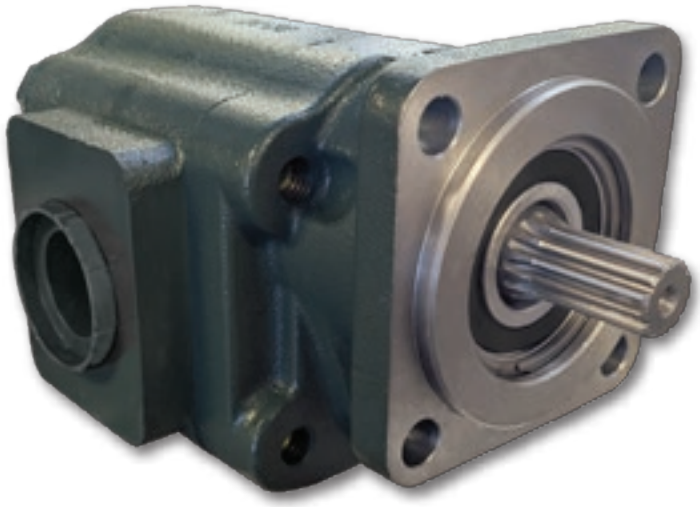
ORB Codes

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 COMPATIABLE

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 IN³/REV	DISPLACEMENT CM³/REV	MAX PRESSURE PSI	MAX PRESSURE BAR
0.75	3/4"	1.91	31.3	3000	207
1.00	1"	2.55	41.8	3000	207
1.25	1-1/4"	3.19	52.2	3000	207
1.50	1-1/2"	3.83	62.7	3000	207
1.75	1-3/4"	4.46	73.1	3000	207
2.00	2"	5.1	83.6	2500	172
2.25	2-1/4"	5.74	94	2500	172
2.50	2-1/2"	6.38	104.5	2500	172

Pump Performance Data

SPEED	GEAR WIDTH GPM (LPM)															
RPM	1"		1-1/4"		1-1/2"		1-3/4"		2"		2-1/4"		2-1/2"			
900	8.5	(32)	10.5	(39.5)	13	(49)	15	(57)	17.5	(66)	20	(75.5)	22	(83.5)		
1200	12	(45.5)	15	(57)	18	(68)	21	(79.5)	24	(91)	27	(102)	30	(113.5)		
1500	15	(57)	19	(72)	23	(87)	27	(102)	31	(117.5)	35	(132.5)	39	(147.5)		
1800	18	(68)	23	(87)	27.5	(104)	32.5	(123)	37.5	(142)	42	(159)	47	(178)		
2100	21.5	(81.5)	27	(102)	32.5	(123)	38.5	(145.5)	44	(166.5)	48.5	(183.5)	55	(208)		
2400	25	(94.5)	31	(117.5)	37	(140)	44	(166.5)	51	(193)	57	(216)	63.5	(240.5)		

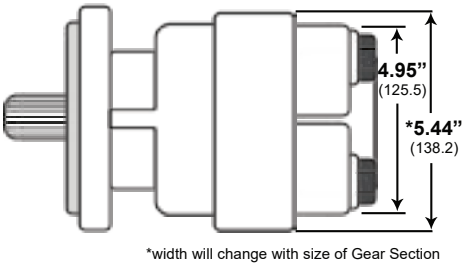
Motor Performance Data

SPEED RPM	1" INPUT FLOW GPM (LPM)	1" OUTPUT TORQUE IN/LBS (NM)	1-1/2" INPUT FLOW GPM (LPM)	1-1/2" OUTPUT TORQUE IN/LBS (NM)	2" INPUT FLOW GPM (LPM)	2" OUTPUT TORQUE IN/LBS (NM)	2-1/2" INPUT FLOW GPM (LPM)	2-1/2" OUTPUT TORQUE IN/LBS (NM)
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

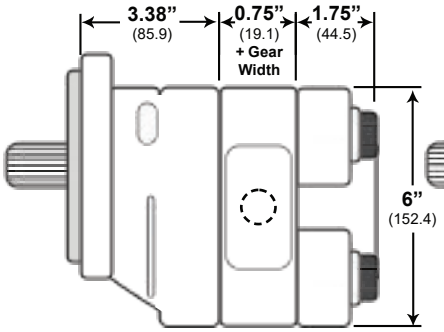
Dimensions - INCHES (mm)

Single Unit (top view)

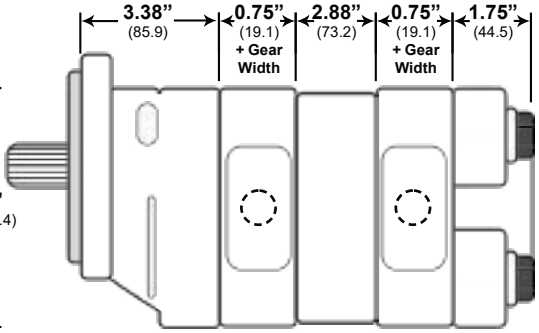


*width will change with size of Gear Section

Single Unit (side view)



Tandem Unit (side view)



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

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 TYPE[1], UNIT[2], SHAFT END COVER[3&4], PORT END COVER[5], GEAR SECTION[6&7], and SHAFT CODE[8]. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER[9] and another GEAR SECTION[6&7] for each additional section and finish with one CONNECTING SHAFT[10].

Model Code Breakdown

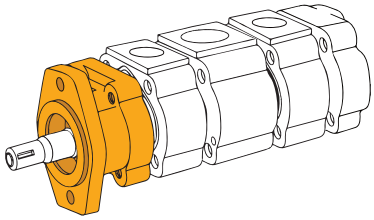
Repeat for multi-section unit

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

1 2 3 4 5 6 7 8 9 6 7 10

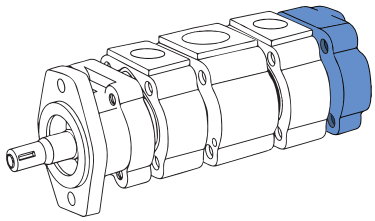
Type [1]
JGP = Pump
JGM = Motor

Unit [2]
A = Single Unit
B = Tandem Unit
C = Continental Shaft



Shaft End Cover [3]
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 Cover [4]
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 Cover [5]

NPT Codes

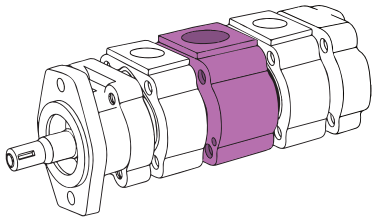
Single Units		Tandem Units		Port Size	
				Left	Right
BE	BY	BI	BY	None	None
KE	KY	KI	KY	3/4"	None
LE	LY	LI	LY	None	3/4"
ME	MY	MI	MY	3/4"	3/4"

ORB Codes

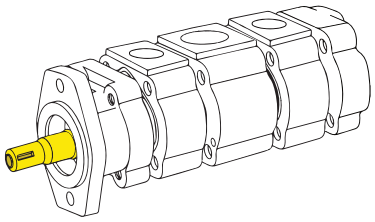
Single Units		Tandem Units		Port Size	
				Left	Right
CE	CY	CI	CY	3/4"	None
DE	DY	DI	DY	None	3/4"
FE	FY	FI	FY	3/4"	3/4"

▫ *Shaded cells include extended studs.*

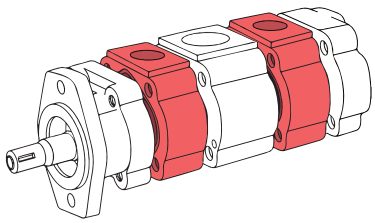
Connecting Shaft [10]
* *for connecting multiple units*
1 = Connecting Shaft



Bearing Carriers [9]
See next page for Bearing carrier options



Shaft Type [8]
07 = SAE 'C' 14 Tooth Spline 1.25" Dia. *(Cont. Only)*
11 = SAE 'C' Keyed Shaft 1.25" Dia.
25 = SAE 'B' 13Tooth 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
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

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*	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	x
UB	1"	2"					x*	x*	x*
UQ	2"	1"					x*	x*	x*
XB	2"	None					x*	x*	x*
ZB	None	2"					x*	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	x
AJ	1-1/4"	1"			x*	x*	x	x	x
AK	1-1/2"	1"				x*	x	x	x
AL	1-1/4"	1-1/4"					x	x	x
AM	1-1/4"	1-1/2"					x*	x*	x*
AP	1-1/2"	1-1/4"					x*	x*	x*
AR	1-1/2"	1-1/2"						x	x
AA	1-1/4"	None			x*	x*	x	x	x
AO	None	1-1/4"			x*	x*	x	x	x
AE	1-1/2"	None					x*	x*	x
AU	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*

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

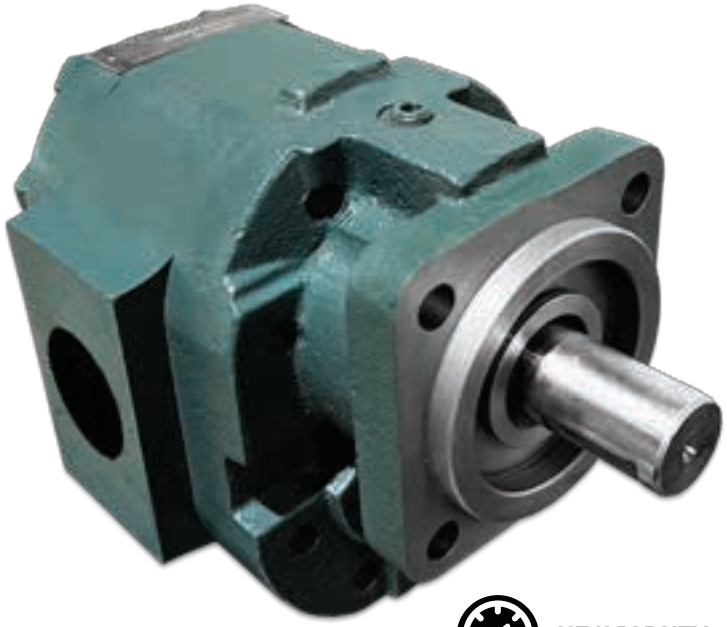
ORB Codes

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 COMPATIABLE

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

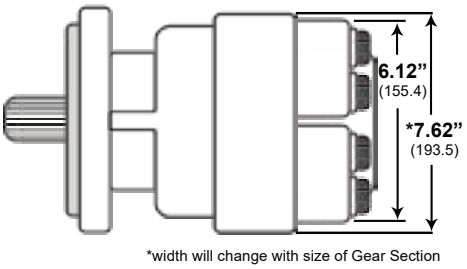
GEAR WIDTH		DISPLACEMENT		MAX PRESSURE	
		IN³/REV	CM³/REV	PSI	BAR
0.75	3/4"	3.07	50.3	3000	207
1.00	1"	4.1	67.2	3000	207
1.25	1-1/4"	5.12	83.9	3000	207
1.50	1-1/2"	6.15	100.8	3000	207
1.75	1-3/4"	7.17	117.5	3000	207
2.00	2"	8.2	134.4	2500	172
2.25	2-1/4"	9.22	151.1	2500	172
2.50	2-1/2"	10.25	168	2500	172
2.75	3"	11.28	184.8	2000	138
3.00	3"	12.3	201.6	2000	138

Pump Performance Data

SPEED	GEAR WIDTH GPM (LPM)																	
RPM	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)

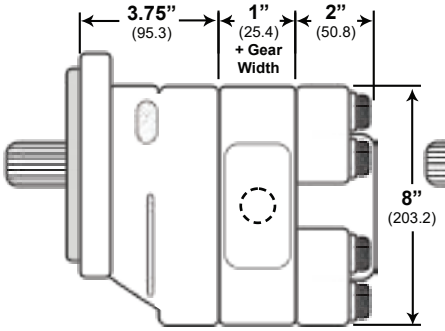
Dimensions - INCHES (mm)

Single Unit (top view)

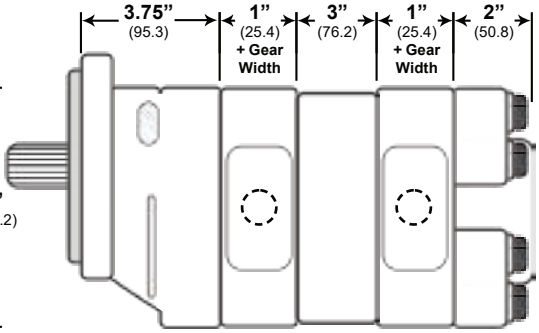


*width will change with size of Gear Section

Single Unit (side view)



Tandem Unit (side view)



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

	1"		1-1/2"		2"		2-1/2"		3"	
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)	INPUT FLOW GPM (LPM)	OUTPUT TORQUE IN/LBS (NM)	INPUT FLOW GPM (LPM)	OUTPUT TORQUE IN/LBS (NM)
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 TYPE[1], UNIT[2], SHAFT END COVER[3&4], PORT END COVER[5], GEAR SECTION[6&7], and SHAFT CODE[8]. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER[9] and another GEAR SECTION[6&7] for each additional section and finish with one CONNECTING SHAFT[10].

Model Code Breakdown

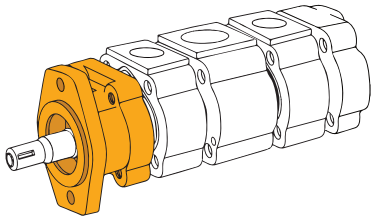
Repeat for multi-section unit

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

1 2 3 4 5 6 7 8 9 6 7 10

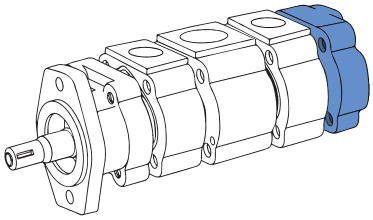
Type [1]
JGP = Pump
JGM = Motor

Unit [2]
A = Single Unit
B = Tandem Unit
C = Continental Shaft



Shaft End Cover [3]
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 Cover [4]
42 = 4-Bolt B
78 = 4-Bolt C
80 = 2-Bolt D
98 = 2-Bolt C



Port End Cover [5]

NPT Codes

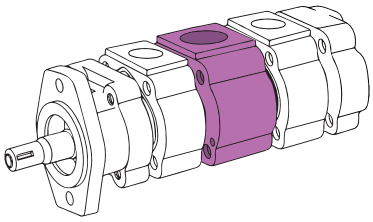
Single Units		Tandem Units		Port Size	
				Left	Right
BE	BY	BI	BY	None	None

ORB Codes

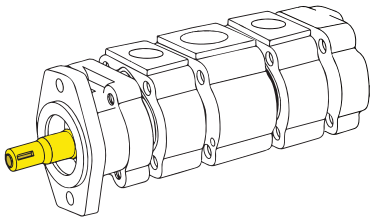
Single Units		Tandem Units		Port Size	
				Left	Right
JE	JY	JI	JY	1"	1"

▫ *Shaded cells include extended studs.*

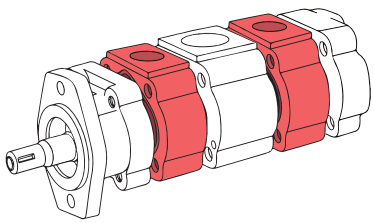
Connecting Shaft [10]
* *for connecting multiple units*
1 = Connecting Shaft



Bearing Carriers [9]
See next page for Bearing carrier options



Shaft Type [8]
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
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	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	
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"			x*	x*	x*	x	x			
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	x
OV	2"	1-1/2"						x*	x*	x*	x*	x*
OW	2-1/2"	1-1/2"								x*	x*	x*
OX	2"	2"									x	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	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 (3.07)	10 (4.10)	12 (5.12)	15 (6.15)	17 (7.17)	20 (8.20)	22 (9.22)	25 (10.3)	27 (11.3)	30 (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 COMPATIABLE

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	
		IN³/REV	CM³/REV	PSI	BAR
0.50	1/2"	0.62	10.2	3500	241
0.75	3/4"	0.93	15.2	3500	241
1.00	1"	1.24	20.3	3500	241
1.25	1-1/4"	1.55	25.4	3500	241
1.50	1-1/2"	1.86	30.5	3300	228
1.75	1-3/4"	2.17	35.6	2900	200
2.00	2"	2.48	40.6	2500	172

Pump Performance Data

SPEED	GEAR WIDTH GPM (LPM)															
RPM	1/2"		3/4"		1"		1-1/4"		1-1/2"		1-3/4"		2"	
900	2	(7.5)	3.2	(12)	4.4	(16.5)	5.5	(21)	6.7	(25.5)	7.9	(30)	9	(34)
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)
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)
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)
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)
2400	6	(22.5)	9.3	(35)	12.5	(47.5)	15.6	(59)	18.8	(71)	21.9	(83)	25.1	(95)
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)

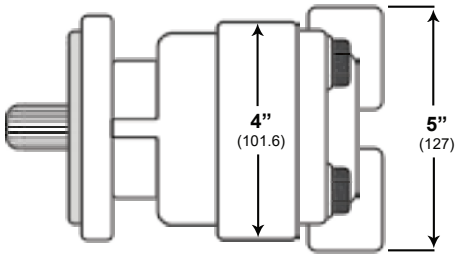
Motor Performance Data

SPEED	1"		1-1/2"		2"		2-1/2"		3"	
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)	INPUT FLOW GPM (LPM)	OUTPUT TORQUE IN/LBS (NM)	INPUT FLOW GPM (LPM)	OUTPUT TORQUE IN/LBS (NM)
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)

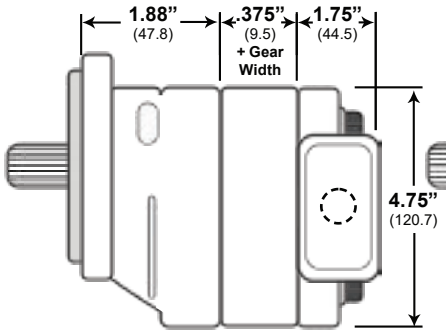
Note: Input Flow @ 2500psi | Output Torque @175 bar

Dimensions - INCHES (mm)

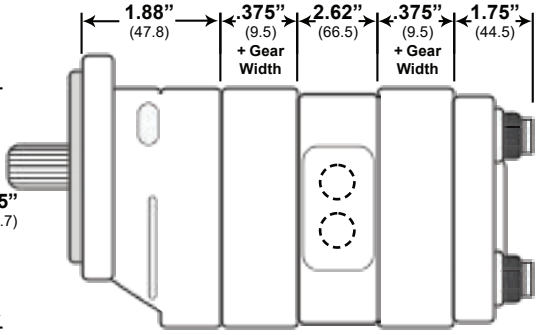
Single Unit (top view)



Single Unit (side view)



Tandem Unit (side view)



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 TYPE[1], UNIT[2], SHAFT END COVER[3&4], PORT END COVER[5], GEAR SECTION[6&7], and SHAFT CODE[8]. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER[9] and another GEAR SECTION[6&7] for each additional section and finish with one CONNECTING SHAFT[10].

Model Code Breakdown

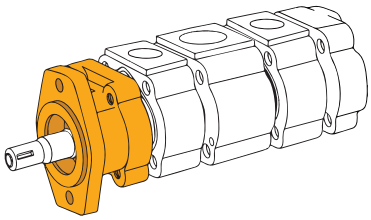
Repeat for multi-section unit

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

1 2 3 4 5 6 7 8 9 6 7 10

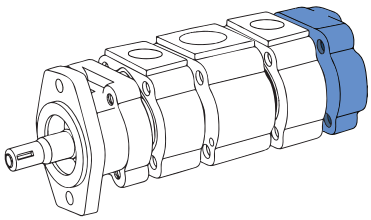
Type [1]
JGP = Pump
JGM = Motor

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 Cover [5]

NPT Codes

CW	CCW	Side Port In	Side Port Out
BI		None	None
AJ	JA	1-1/4"	1"
AK	KA	1-1/4"	3/4"
AL	LA	1"	1"
AM	MA	1"	3/4"
AR	RA	3/4"	3/4"
DQ		1/2"	1"
DN		3/4"	3/4"
DM		1"	1"

NPT Codes

CW	CCW	Rear Port In	Rear Port Out
RX		1"	1"
RY		3/4"	3/4"
RZ		1/2"	1/2"

ORB Codes

CW	CCW	Side Port In	Side Port Out
FB	BF	1-1/4"	1"
FB	CF	1-1/4"	7/8"
FG	GF	1-1/4"	3/4"
FJ	JF	1-1/4"	5/8"
FL	LF	1"	1"
FV	VF	1"	7/8"
FW	WF	1"	3/4"
FX	XF	1"	5/8"
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"
BL	LB	3/4"	5/8"
BN	NB	3/4"	1/2"
BV	VB	1-1/4"	None

ORB Codes

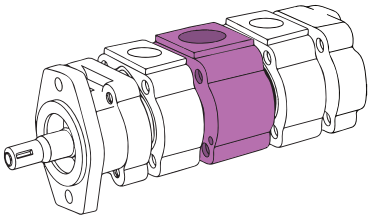
CW	CCW	Side Port In	Side Port Out
BW	WB	1"	None
BX	XB	7/8"	None
BY	YB	3/4"	None
BZ	ZB	None	1"
PD	DP	None	7/8"
PE	EP	None	3/4"
PM	MP	None	5/8"
PN	NP	None	1/2"
VN		1"	1"
VR		3/4"	3/4"
VQ		1/2"	1/2"

▫ *Shaded cells are good for motors*

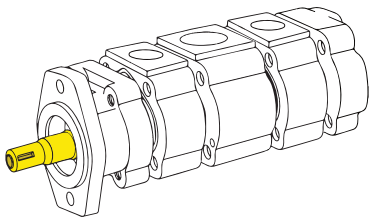
ORB Codes

CW	CCW	Rear Port In	Rear Port Out
UC	CU	1-1/4"	1"
UF	FU	1-1/4"	7/8"
UN	NU	1-1/4"	3/4"
UD	DU	1"	1"
UP	PU	1"	7/8"
UQ	QU	1"	3/4"
UR	RU	1"	5/8"
LN	NL	7/8"	7/8"
LP	PL	7/8"	3/4"
LQ	QL	7/8"	5/8"
LR	RL	3/4"	3/4"
LS	SL	3/4"	5/8"
LT	TL	3/4"	1/2"
RN		1"	1"
RQ		3/4"	3/4"
RS		1/2"	1/2"

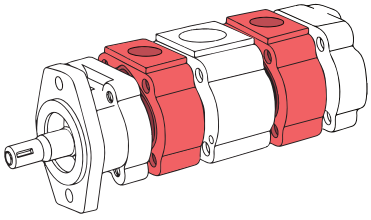
Connecting Shaft [10]
* *for connecting multiple units*
1 = Connecting Shaft



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"	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"	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"	CJ	JC
1-1/4"	1"	CL	LC
1-1/4"	3/4"	CM	MC
1-1/4"	1/2"	HB	BH
1"	1"	HC	CH
1"	3/4"	HF	FH
1"	1/2"	HL	LH
3/4"	3/4"	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"	CA	AC
1-1/4"	3/4"	1/2"	DA	AD
1-1/4"	1/2"	1/2"	EA	AE
1"	3/4"	3/4"	FA	AF
1"	3/4"	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

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HEAVY DUTY

Dowelled cast iron construction with working pressure up to 3500psi

OEM COMPATIABLE

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 IN³/REV	DISPLACEMENT CM³/REV	MAX PRESSURE PSI	MAX PRESSURE BAR
0.50	1/2"	0.99	16.2	3500	241
0.75	3/4"	1.48	24.3	3500	241
1.00	1"	1.97	32.3	3500	241
1.25	1-1/4"	2.46	40.3	3500	241
1.50	1-1/2"	2.96	48.5	3500	241
1.75	1-3/4"	3.45	56.5	3250	224
2.00	2"	3.94	64.6	3000	207

Pump Performance Data

SPEED RPM	GEAR WIDTH GPM (LPM) 1/2"		3/4"		1"		1-1/4"		1-1/2"		1-3/4"		2"	
900	3.2	(12)	5.1	(19.5)	7	(26.5)	8.8	(33.5)	10.6	(40)	12.4	(47)	14.3	(54)
1200	4.5	(17)	7	(26.5)	9.5	(36)	12	(45.5)	14.5	(55)	16.9	(64)	19.4	(73.5)
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)
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)
2100	8.4	(32)	12.7	(48)	17.2	(65)	21.6	(82)	26	(98.5)	30.3	(114.5)	34.7	(131.5)
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)
3000	12.2	(46)	18.5	(70)	24.9	(94.5)	31.2	(118)	37.5	(142)	43.8	(166)	50.1	(189.5)

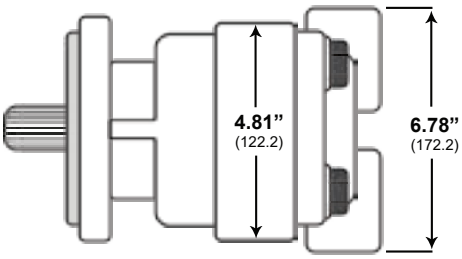
Motor Performance Data

SPEED RPM	1" INPUT FLOW GPM (LPM)	1" OUTPUT TORQUE IN/LBS (NM)	1-1/4" INPUT FLOW GPM (LPM)	1-1/4" OUTPUT TORQUE IN/LBS (NM)	1-1/2" INPUT FLOW GPM (LPM)	1-1/2" OUTPUT TORQUE IN/LBS (NM)	1-3/4" INPUT FLOW GPM (LPM)	1-3/4" OUTPUT TORQUE IN/LBS (NM)	2" INPUT FLOW GPM (LPM)	2" OUTPUT TORQUE IN/LBS (NM)
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)

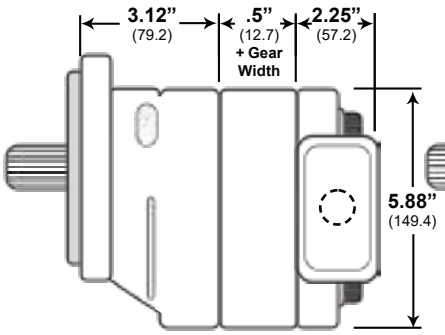
Note: Input Flow @ 2500psi | Output Torque @175 bar

Dimensions - INCHES (mm)

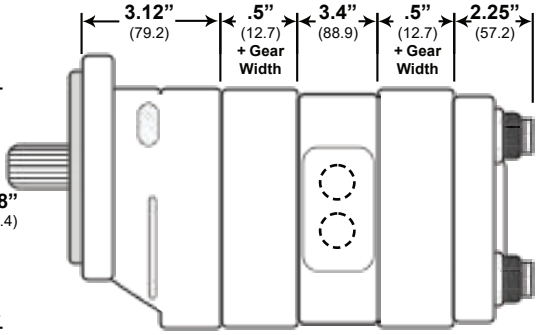
Single Unit (top view)



Single Unit (side view)



Tandem Unit (side view)



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

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 TYPE[1], UNIT[2], SHAFT END COVER[3&4], PORT END COVER[5], GEAR SECTION[6&7], and SHAFT CODE[8]. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER[9] and another GEAR SECTION[6&7] for each additional section and finish with one CONNECTING SHAFT[10].

Model Code Breakdown

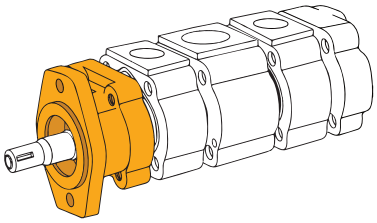
Repeat for multi-section unit

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

1 2 3 4 5 6 7 8 9 6 7 10

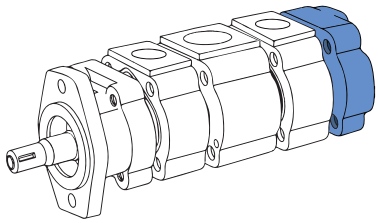
Type [1]
JGP = Pump
JGM = Motor

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



Port End Cover [5]

ORB Codes

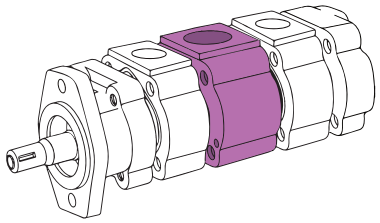
CW	CCW	Side Port In	Side Port Out
BI		None	None
BA		None	None
VC		1-1/4"	1-1/4"
VN		1"	1"
VR		3/4"	3/4"
FJ	JF	1-1/4"	1"
FL	LF	1"	1"
BG	GB	1-1/4"	None
BJ	JB	1"	None
BN	NB	None	1"

▫ *Shaded cells are good for motors*

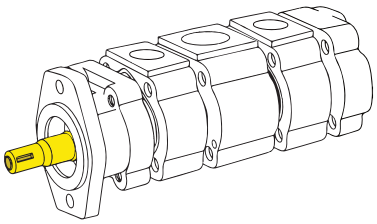
Split Flange Codes

CW	CCW	Side Port In	Side Port 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"

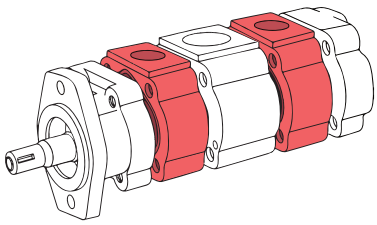
Connecting Shaft [10]
* *for connecting multiple units*
1 = Connecting Shaft



Bearing Carriers [9]
See next page for Bearing carrier options



Shaft Type [8]
7 = SAE 'C' 14 Tooth Spline 1.25" Dia. *(Cont. Only)*
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"	GV	VG
1-1/4"	1"	1"	GY	YG
1"	1"	1"	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

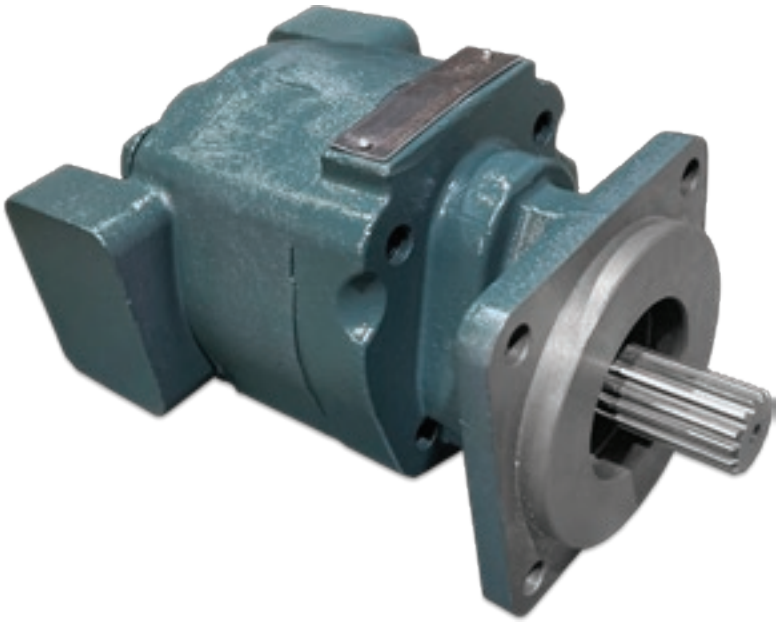
Split Flange Codes - Single output

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	

- *Out[1] - 1st section from shaft, Out[2] - 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 COMPATIABLE

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

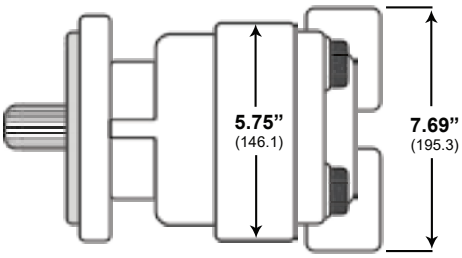
GEAR WIDTH		DISPLACEMENT IN³/REV	DISPLACEMENT CM³/REV	MAX PRESSURE PSI	MAX PRESSURE BAR
0.50	1/2"	1.28	21	3500	241
0.75	3/4"	1.91	31.3	3500	241
1.00	1"	2.55	41.8	3500	241
1.25	1-1/4"	3.19	52.3	3500	241
1.50	1-1/2"	3.83	62.8	3500	241
1.75	1-3/4"	4.46	73.1	3250	224
2.00	2"	5.1	83.6	3000	207
2.25	2-1/4"	5.74	94.1	2750	190
2.50	2-1/2"	6.38	104.5	2500	172

Pump Performance Data

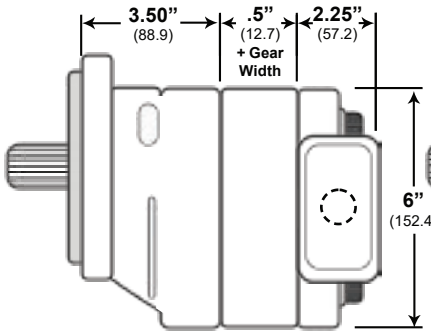
	GEAR WIDTH - GPM (LPM)																	
RPM	1/2"		3/4"		1"		1-1/4"		1-1/2"		1-3/4"		2"		2-1/4"		2-1/2"	
900	4	(15)	6.4	(24)	8.8	(33.5)	11.2	(42.5)	13.7	(52)	16.1	(61)	18.6	(70.5)	21	(79.5)	23.4	(88.5)
1200	5.6	(21)	8.8	(33.5)	12.1	(46)	15.4	(58.5)	18.7	(71)	21.9	(83)	25.2	(95.5)	28.4	(107.5)	31.7	(120)
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)

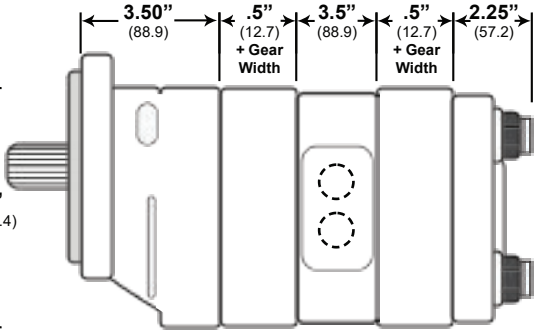
Single Unit (top view)



Single Unit (side view)



Tandem Unit (side view)



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

	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)	INPUT FLOW GPM (LPM)	OUTPUT TORQUE IN/LBS (NM)	INPUT FLOW GPM (LPM)	OUTPUT TORQUE IN/LBS (NM)
RPM	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 TYPE[1], UNIT[2], SHAFT END COVER[3&4], PORT END COVER[5], GEAR SECTION[6&7], and SHAFT CODE[8]. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER[9] and another GEAR SECTION[6&7] for each additional section and finish with one CONNECTING SHAFT[10].

Model Code Breakdown

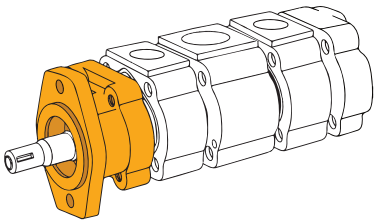
Repeat for multi-section unit

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

1 2 3 4 5 6 7 8 9 6 7 10

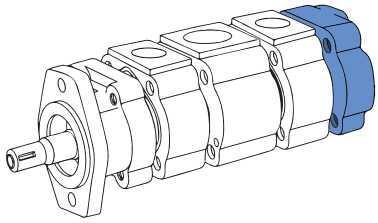
Type [1]
JGP = Pump
JGM = Motor

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

CW	CCW	Side Port In	Side Port Out
BI		None	None
BA		None	None
VC		1-1/4"	1-1/4"
VN		1"	1"
VR		3/4"	3/4"
FB	BF	1-1/2"	1-1/4"
FC	CF	1-1/2"	1"
FG	GF	1-1/4"	1-1/4"
FJ	JF	1-1/4"	1"
FL	LF	1"	1"
BC	CB	1-1/2"	None
BG	GB	1-1/4"	None
BJ	JB	1"	None
BL	LB	None	1-1/4"
BN	NB	None	1"

Split Flange Codes

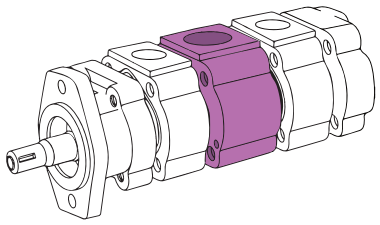
CW	CCW	Side Port In	Side Port Out
EC	CE	2"	1-1/2"
EF	FE	2"	1-1/4"
EG	GE	2"	1"
EH	HE	1-1/2"	1-1/4"
EJ	JE	1-1/2"	1-1/4"
EK	KE	1-1/2"	1"
EL	LE	1-1/4"	1-1/4"
EM	ME	1-1/4"	1"
EN	NE	1"	1"
EO	OE	2"	None
OF	FO	1-1/2"	None
OG	GO	1-1/4"	None
OJ	JO	1"	None
OL	LO	None	1-1/2"
OM	MO	None	1-1/4"

Split Flange Codes

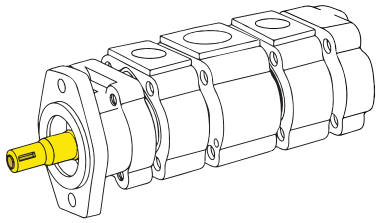
CW	CCW	Side Port In	Side Port Out
ON	NO	None	1"
CR		1-1/2"	1-1/2"
CS		1-1/4"	1-1/4"
CT		1"	1"
CV		3/4"	3/4"

▫ *Shaded cells are good for motors*

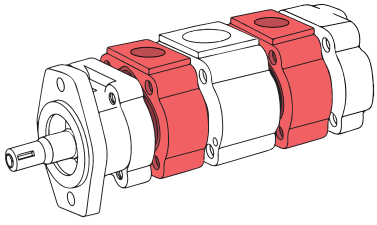
Connecting Shaft [10]
* *for connecting multiple units*
1 = Connecting Shaft



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

- *Out[1] - 1st section from shaft, Out[2] - 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 COMPATIABLE

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

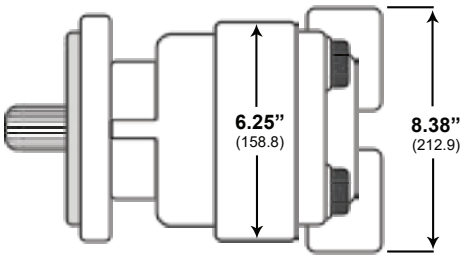
GEAR WIDTH		DISPLACEMENT		MAX PRESSURE	
		IN³/REV	CM³/REV	PSI	BAR
0.75	3/4"	2.7	44.2	3500	241
1.00	1"	3.6	59	3500	241
1.25	1-1/4"	4.5	73.7	3500	241
1.50	1-1/2"	5.4	88.5	3500	241
1.75	1-3/4"	6.3	103.2	3500	241
2.00	2"	7.2	118	3500	241
2.25	2-1/4"	8.1	132.7	3250	224
2.50	2-1/2"	9	147.5	3000	207

Pump Performance Data

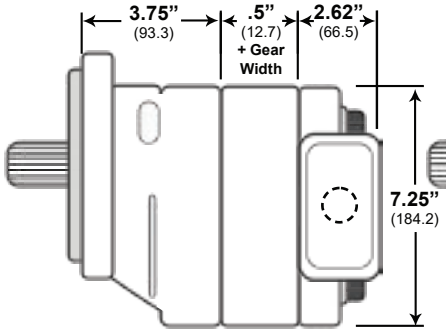
	GEAR WIDTH - GPM (LPM)															
RPM	3/4"		1"		1-1/4"		1-1/2"		1-3/4"		2"		2-1/4"		2-1/2"	
900	8	(30.5)	11.5	(43.5)	14.9	(56.5)	18.4	(69.5)	21.8	(82.5)	25.4	(96)	28.8	(109)	32.3	(122.5)
1200	11.5	(43.5)	16.2	(61.5)	20.8	(78.5)	25.5	(96.5)	30	(113.5)	34.7	(131.5)	39.3	(149)	44	(166.5)
1500	15	(57)	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)

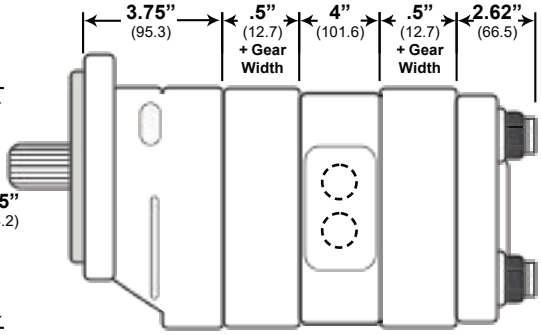
Single Unit (top view)



Single Unit (side view)



Tandem Unit (side view)



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

	GEAR WIDTH													
	F	T	F	T	F	T	F	T	F	T	F	T	F	T
RPM	1"		1-1/4"		1-1/2"		1-3/4"		2"		2-1/4"		2-1/2"	
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 TYPE[1], UNIT[2], SHAFT END COVER[3&4], PORT END COVER[5], GEAR SECTION[6&7], and SHAFT CODE[8]. Optionally when building a tandem or multiple stage unit append a BEARING CARRIER[9] and another GEAR SECTION[6&7] for each additional section and finish with one CONNECTING SHAFT[10].

Model Code Breakdown

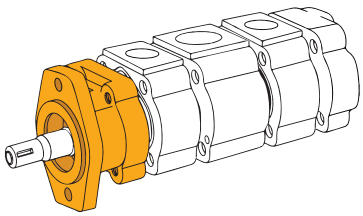
Repeat for multi-section unit

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

1 2 3 4 5 6 7 8 9 6 7 10

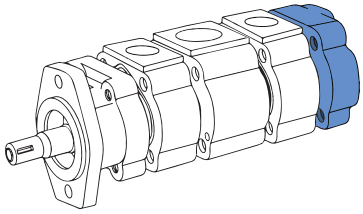
Type [1]
JGP = Pump
JGM = Motor

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
78 = 4-Bolt C
97 = 2-Bolt B
98 = 2-Bolt C



Port End Cover [5]

ORB Codes

BI	None	None
BA	None	None
VC	1-1/4"	1-1/4"
VN	1"	1"
VR	3/4"	3/4"
FB BF	1-1/2"	1-1/4"
FC CF	1-1/2"	1"
FG GF	1-1/4"	1-1/4"
FJ JF	1-1/4"	1"
FL LF	1"	1"
BC CB	1-1/2"	None
BG GB	1-1/4"	None
BJ JB	1"	None
BL LB	None	1-1/4"
BN NB	None	1"

Split Flange Codes

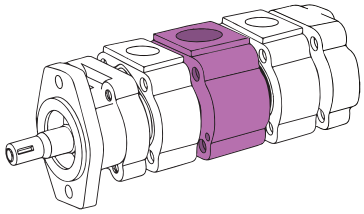
EC	CE	2"	1-1/2"
EF	FE	2"	1-1/4"
EG	GE	2"	1"
EH	HE	1-1/2"	1-1/4"
EJ	JE	1-1/2"	1-1/4"
EK	KE	1-1/2"	1"
EL	LE	1-1/4"	1-1/4"
EM	ME	1-1/4"	1"
EN	NE	1"	1"
EO	OE	2"	None
OF	FO	1-1/2"	None
OG	GO	1-1/4"	None
OJ	JO	1"	None
OL	LO	None	1-1/2"
OM	MO	None	1-1/4"

Split Flange Codes

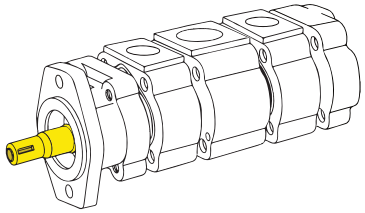
ON	NO	None	1"
CR		1-1/2"	1-1/2"
CS		1-1/4"	1-1/4"
CT		1"	1"
CV		3/4"	3/4"

▫ *Shaded cells are good for motors*

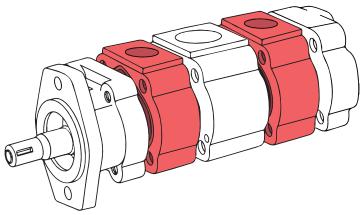
Connecting Shaft [10]
* *for connecting multiple units*
1 = Connecting Shaft



Bearing Carriers [9]
See next page for Bearing carrier options



Shaft Type [8]
7 = SAE 'C' 14 Tooth Spline 1.25" Dia.
11 = SAE 'C' Keyed 1.25" Dia.



Gear Section [6&7]
see below and next page for options.

Gear Section [6]
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)

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	

- *Out[1] - 1st section from shaft, Out[2] - 2nd section from shaft*
- *Shaded cells are good for motors.*