

'C' Series Features:

- · Heavy duty sleeve bushing design in a small frame size
- Displacements from 15.9cc/rev to 64.4cc/rev
- Working pressures up to 240bar
- Speeds up to 3000rpm
- Flows up to 17gpm
- · High strength cast iron construction
- 100% factory tested
- · High strength alloy steel gears and shaft sets
- · A wide range of porting, mounting and shaft options available
- Pressure balanced wear plates maintain high pump efficiency throughout all operating ranges

Performance Data:

The performance data shown below are the average results based on a series of laboratory tests of production units and are not necessarily representative of any one unit. Test were run with an oil reservoir temperature of 50°C and a viscosity of 38mm²/S at 40°C.

Note: Pump output flow is at the maximum rated pressure (See page 16, General pump data)

VGP - C Performance Data:

C-Series		Gear Housing Widths										
U-36	eries	1.00"	1.25"	1.50"	1.75"	2.00"	2.25"	2.50"				
cc/rev		15.90	24.0	32.0	40.10	48.10	56.30	64.40				
Dynasiiva	(bar)	240	240	240	240	240	220	200				
Pressure	(psi)	3500	3500	3500	3500	3500	3250	3000				
Max.Speed	(rpm)	3000	3000	3000	3000	3000	3000	3000				
Pump Weight	(kg)	17.00	17.02	17.03	18.0	20.0	24.20	25.50				

Relational chart for Flow rate & Housing width:

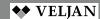
		Gear Housing Widths / Flow Rate [VGP - C Series]													
	Speed (rpm)	1 00"		1.2	5"	1.5"		1.7	1.75" 2.0		0"	2.25"		2.50"	
		gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm
С	1000	4.11	15.59	6.34	24.00	8.40	32.00	10.59	40.10	12.70	48.10	14.87	56.30	17.01	64.40
	1500	5.68	21.50	9.29	35.20	12.21	46.22	15.35	58.10	18.53	70.15	21.69	82.10	24.64	93.30
	2000	7.47	28.30	12.12	45.91	16.34	61.88	20.64	78.15	24.87	94.15	29.11	110.21	33.34	126.22
	2500	9.91	37.52	15.27	57.82	20.66	78.21	25.93	98.15	31.30	118.50	36.60	138.55	41.79	158.21
	3000	11.94	45.21	18.42	69.75	24.86	94.11	31.23	118.21	37.54	142.11	44.07	166.81	50.25	190.22

Relational chart for Housing width & Input Power:

		Gear Housing Widths / Input power [VGP - C Series]													
	Speed (rpm)	1.0	00"	1.2	25"	1.	.5"	1.7	75"	2.	0"	2.2	25"	2.	50"
		HP	KW	HP	KW	HP	KW	HP	KW	HP	KW	HP	KW	HP	KW
С	1000	11	8	15	11	20	15	24	18	28	21	31	23	35	26
	1500	16	12	21	16	28	21	35	26	40	30	46	34	50	37
	2000	20	15	28	21	38	28	46	34	54	40	59	44	63	47
	2500	25	19	35	26	46	34	56	42	67	50	72	54	76	57
	3000	30	22	42	31	54	40	67	50	80	60	87	65	92	69

Note: In accordance with our policy of continuous development, we reserve the right to change specifications shown in this catalogue without notice.

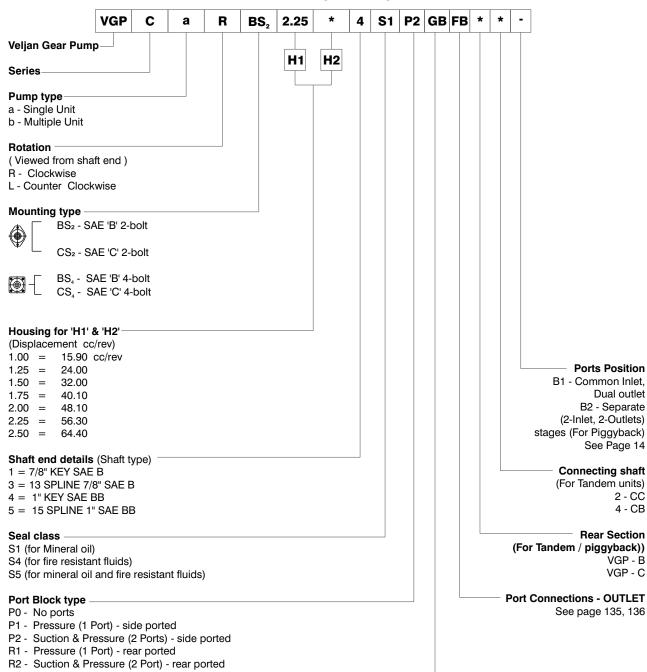




VGP SGP

C Series

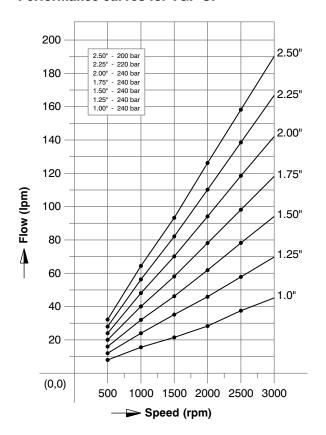
Gear Pump Ordering Code

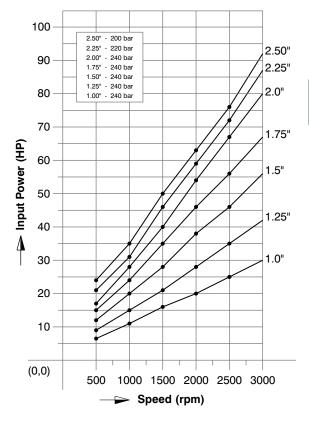


Port connections See page 135, 136

* :- For Double pumps / Tandem pumps

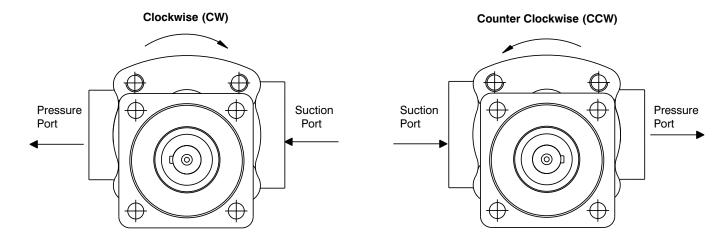
Performance curves for VGP-C:





Pump Rotation:

- To determine rotation view pump as shown. Look at shaft end cover of pump with the drive shaft at the top. Note the location of the ports
- Pump rotation as viewed from the shaft end: Clockwise rotation- outlet on right;
 Counter clockwise rotation outlet on left



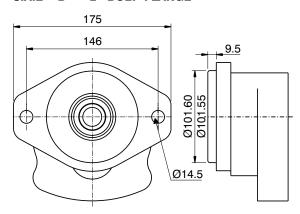
VGP SGP



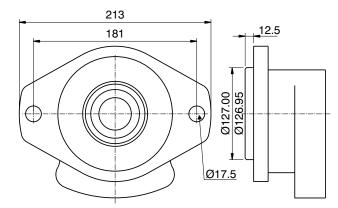
FLANGE DETAILS - 'C' Series :

VGP SGP

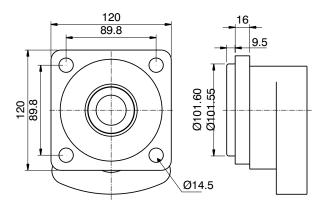
S.A.E - "B" 2 - BOLT FLANGE



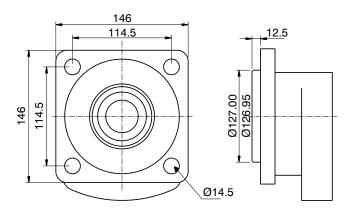
S.A.E - "C" 2 - BOLT FLANGE



S.A.E - "B" 4 - BOLT FLANGE



*S.A.E - "C" 4 - BOLT FLANGE



^{*} Codes designated by an asterisk * are in due course

VGP

Unit dimensions of VGP-C

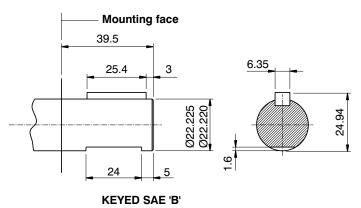
Side ported (SAE Versions)

Shafts:

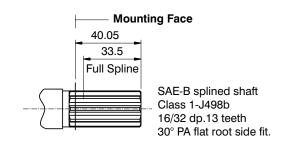
• Satisfactory drive shaft transmission capacity is indicated with the product of pressure(P) & Displacement (D) is less than or equal to (<) a given constant. The units of P & D are expressed in psi & in³/rev. respectively

Drive shaft configurations:

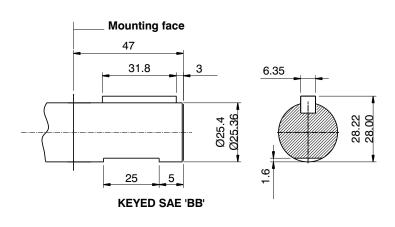
SHAFT CODE 1:



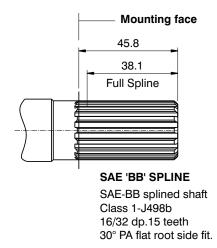
SHAFT CODE 3:



SHAFT CODE 4:



SHAFT CODE 5:



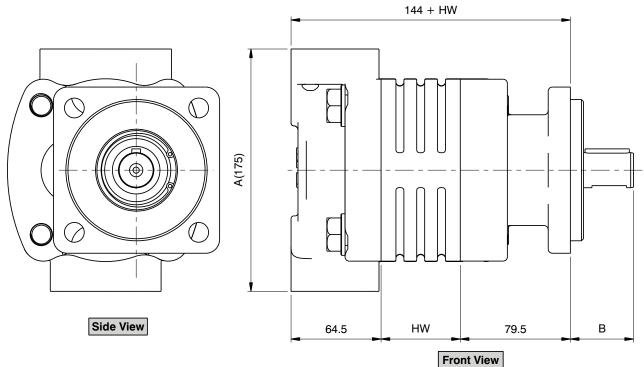
Drive shaft (Shaft loads) Maximum Input Torque for VGP - C series :

Code	Shaft type	Torque rating					
Code	Shart type	Nm	lb-ft				
1	SHORT SAE - B	225	165				
3	13 TEETH SPLINE SAE - B	330	240				
4	KEYED SAE BB	340	250				
5	15 TEETH SPLINED SAE - BB	500	370				



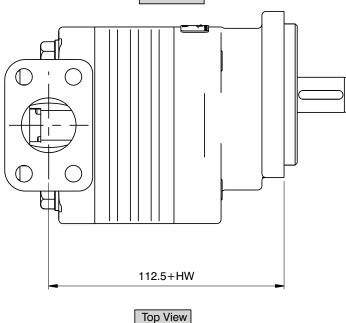
Single Pump Unit Dimensions Data of VGP - C:





Housing Table (HW)

Inches	mm
1"	25.40
11/4"	31.75
11/2"	38.10
13/4"	44.45
2"	50.80
21/4"	57.15
21/2"	63.50



A - Dimension varies with the type of ports.

B - Dimension varies with the type of drive shaft ends.

HW - Housing width