CC Series

Gear Pump Ordering Code

VGP	CC	b	R	BS_2	1.5	1.0	5	S1	P2	GB	FB	FB	-	2	B1
					H1	H2					P1	P2			

Veljan Gear Pump

Series

Pump type
b - Multiple Unit / Double pump

Rotation
(Viewed from shaft end)
R - Clockwise
L - Counter Clockwise

Mounting type

BS_2 - SAE 'B' 2-bolt
CS_2 - SAE 'C' 2-bolt

BS_4 - SAE 'B' 4-bolt
CS_4 - SAE 'C' 4-bolt

Housing for 'H1' & 'H2'
(Displacement cc/rev)
1.00 = 15.90 cc/rev
1.25 = 24.00
1.50 = 32.00
1.75 = 40.10
2.00 = 48.10
2.25 = 56.30
2.50 = 64.40

Shaft end details (Shaft type)
3 = 13 SPLINE 7/8" SAE B
4 = 1" KEY SAE BB
5 = 15 SPLINE 1" SAE BB

Seal class
S 1 (for Mineral oil)
S 4 (for fire resistant fluids)
S 5 (for mineral oil and fire resistant fluids)

Port Block type
P0 - No ports
P1 - Pressure (1 Port) - side ported
P2 - Suction & Pressure (2 Ports) - side ported
R1 - Pressure (1 Port) - rear ported
R2 - Suction & Pressure (2 Port) - rear ported
H1 - Housing ported

Port connections-INLET
See page 135,136

Ports Position
B1 - Common Inlet, Dual outlet
See page 15

Connecting shaft
(For Tandem units)
2 - CC

Rear Section
(For Tandem/piggyback)
VGP - B
VGP - C

Port connections
OUTLET(P1,P2)
See page 135,136

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 15, General pump data)

VGP - C Performance Data :

C-Series		Gear Housing Widths						
		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
Pressure	(bar)	240	240	240	240	240	220	200
	(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:

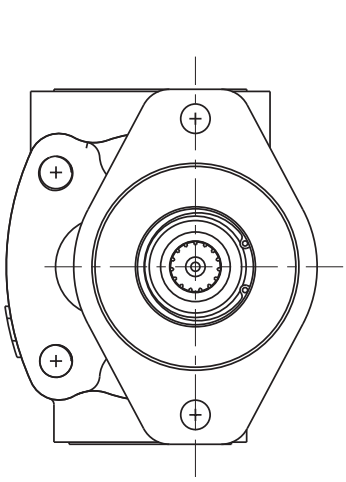
	Speed (rpm)	Gear Housing Widths / Flow Rate [VGP - C Series]													
		1.00"		1.25"		1.5"		1.75"		2.0"		2.25"		2.50"	
		gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm
C	1000	4.11	15.59	6.34	24.00	8.40	32.00	10.59	40.10	12.70	48.10	14.87	56.30	17.01	64.40
	1500	5.68	21.50	9.29	35.20	12.21	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 :

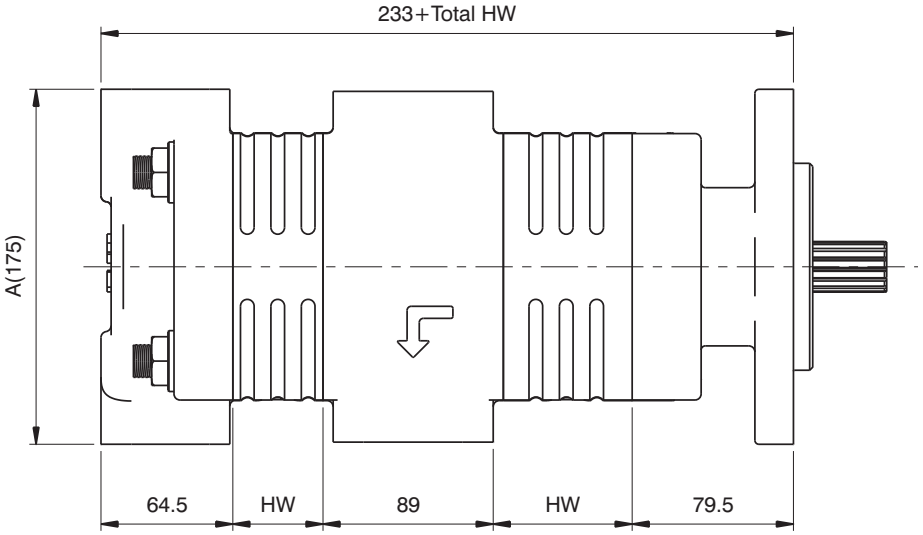
	Speed (rpm)	Gear Housing Widths / Input power [VGP - C Series]													
		1.00"		1.25"		1.5"		1.75"		2.0"		2.25"		2.50"	
		HP	KW	HP	KW	HP	KW	HP	KW	HP	KW	HP	KW	HP	KW
C	1000	11	8	15	11	20	15	24	18	28	21	31	23	35	26
	1500	16	12	21	16	28	21	35	26	40	30	46	34	50	37
	2000	20	15	28	21	38	28	46	34	54	40	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.

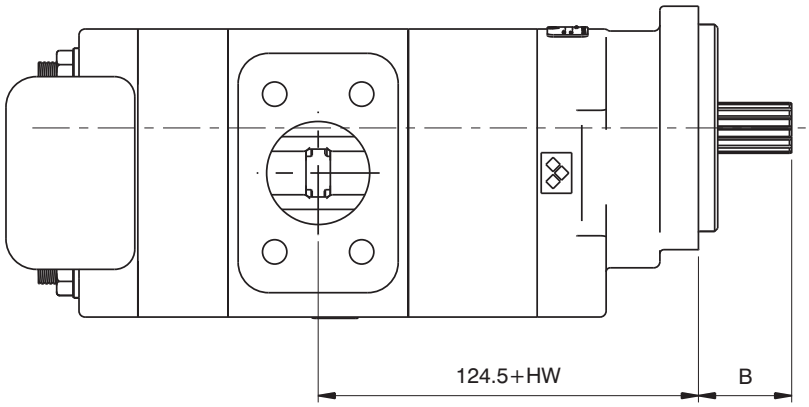
Double Pump Unit Dimensions of VGP - CC :-



Side View



Front View



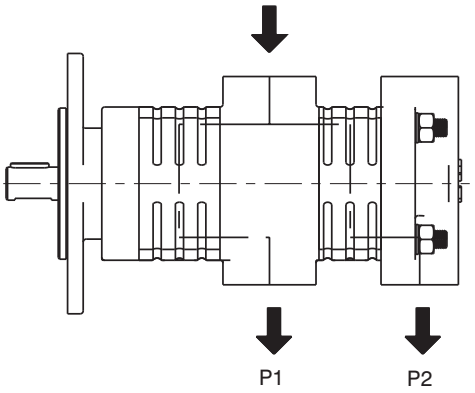
Top View

VGP-CC Series		
Housing Width Inches (HW)	Displacement (cc/rev)	
	P1	P2
1.00"	15.90	15.90
1.25"	24.00	24.00
1.50"	32.00	32.00
1.75"	40.10	40.10
2.00"	48.10	48.10
2.25"	56.30	56.30
2.50"	64.40	64.40

A - Dimension varies with the type of ports.

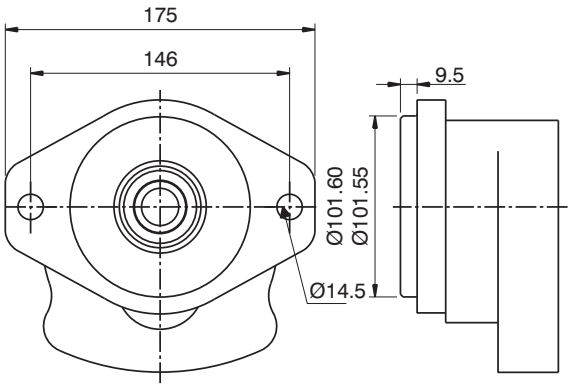
B - Dimension varies with the type of drive shaft ends.

HW - Housing width



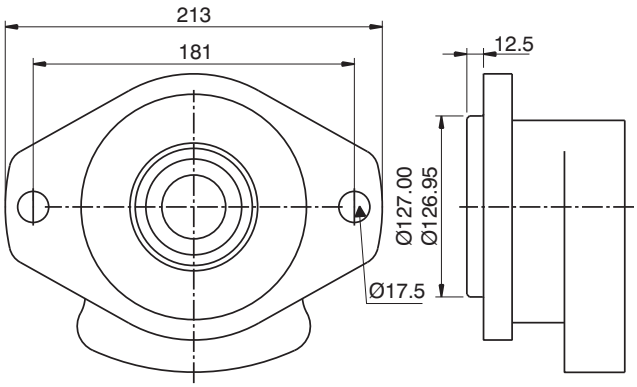
FLANGE DETAILS - 'C' Series:-

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



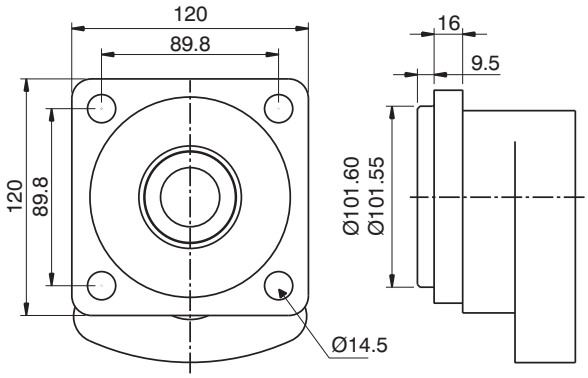
Code BS_2

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



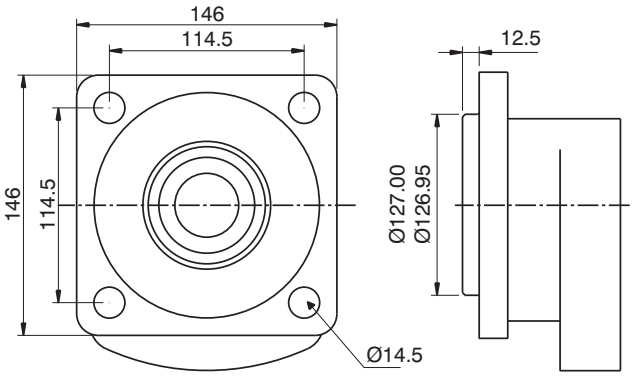
Code CS_2

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



Code BS_4

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



Code CS_4

Unit dimensions of VGP-CC

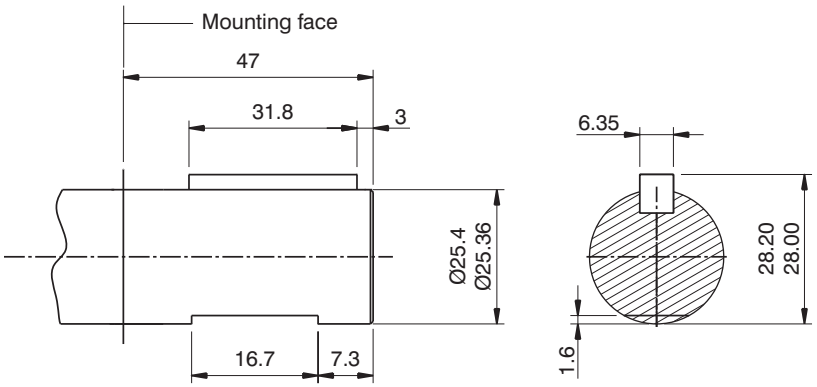
Side ported (SAE Versions)

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 & in^3/rev. respectively

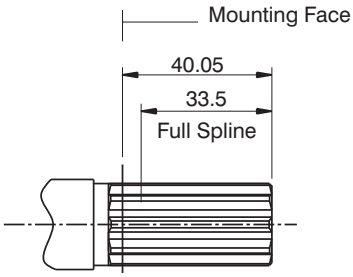
Drive shaft configurations:-

SHAFT CODE 4:-



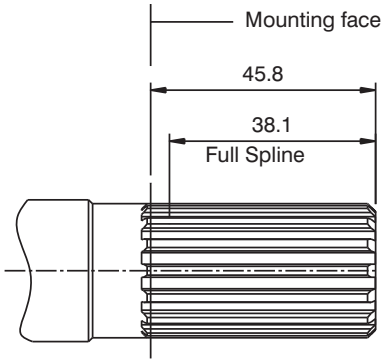
KEYED SAE 'BB'

SHAFT CODE 3:-



SAE-B splined shaft
Class 1-J498b
16/32 dp.13 teeth
30° PA flat root side fit.

SHAFT CODE 5:-



SAE-BB splined shaft
Class 1-J498b
16/32 dp.15 teeth
30° PA flat root side fit.

SAE 'BB' SPLINE

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

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