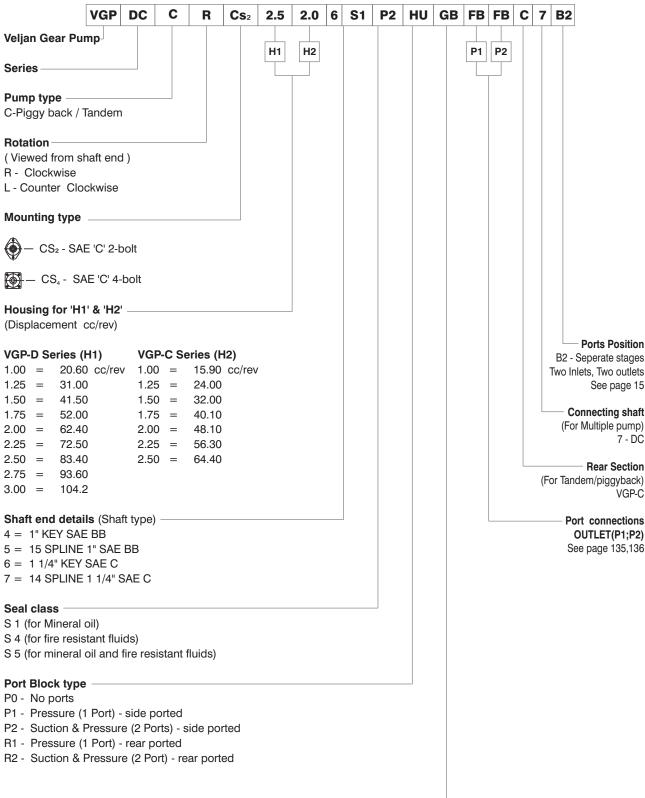


DC Series

VGP DGP

Gear Pump Ordering Code



Port connections

INLET-I(S1); INLET - II(S2)

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 - D Performance Data:

D-Series		Gear Housing Widths										
		1.00"	1.25"	1.50"	1.75"	2.00"	2.25"	2.50"	2.75"	3.00"		
cc/rev		20.6	31.0	41.50	52.0	62.40	72.5	83.40	93.6	104.2		
Duccerine	(bar)	240	240	240	240	240	220	200	190	170		
Pressure	(psi)	3500	3500	3500	3500	3500	3250	3000	2750	2500		
Max.Speed	(rpm)	2400	2400	2400	2400	2400	2400	2400	2400	2400		
Pump Weight	(kg)	23.00	23.10	23.10	24.20	24.90	25.90	26.20	26.90	27.80		

Relational chart for Flow rate & Housing width:

		Gear Housing Widths / Flow Rate [VGP - D Series]																	
	Speed (rpm)	1 1 1 1		1.25"		1.5"		1.75"		2.0"		2.25"		2.50"		2.75"		3.00"	
		gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm
0	1000	5.41	20.50	7.97	30.20	10.59	40.10	13.42	50.80	16.30	62.0	19.15	72.50	21.80	82.80	24.72	93.60	27.42	103.80
	1500	7.52	28.50	11.38	43.10	15.36	58.15	19.59	74.15	24.17	91.52	28.20	106.75	32.25	122.10	36.56	138.41	40.34	152.71
	2000	10.35	39.2	15.42	58.40	20.64	78.15	26.31	99.61	32.23	122.0	37.91	143.50	43.14	163.30	48.90	185.12	54.31	205.60
	2400	12.47	47.20	18.52	70.12	24.87	94.14	31.65	119.82	38.67	146.4	45.39	171.81	51.94	196.62	58.78	222.51	65.28	247.12

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				
D	(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 Housing width & Input Power:

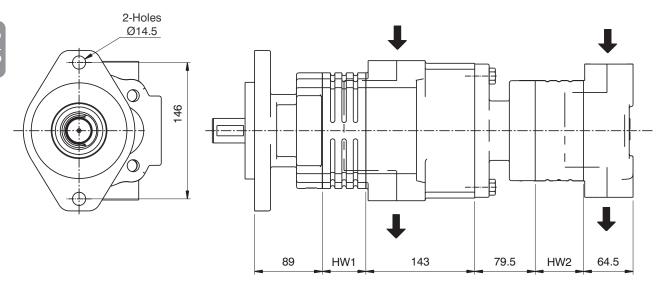
		Gear Housing Widths / Input power [VGP - C Series]													
	Speed (rpm)	1.00"		1.25"		1.5"		1.75"		2.0"		2.25"		2.50"	
		HP	KW	HP	KW	HP	KW	HP	KW	HP	KW	HP	KW	HP	KW
С	1000	11	8	15	11	20	15	24	18	28	21	31	23	35	26
	1500	16	12	21	16	28	21	35	26	40	30	46	34	50	37
	2000	20	15	28	21	38	28	46	34	54	40	59	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.



SEPERATED STAGES - B2 (Two Inlets, Two Outlets) - VGP - DC Unit dimensions of Tandem/piggy backpump VGP-DC

VGP DGP



VGP-DC Series							
VGP -	D Series	VGP -	VGP - C Series				
Housing Width	Displacement (cc/rev)	Housing Width	Displacement (cc/rev)				
Inches (HW1)	Outlet-I	Inches (HW2)	Outlet-II				
1.00"	20.60	1.00"	15.90				
1.25"	31.00	1.25"	24.00				
1.50"	41.50	1.50"	32.00				
1.75"	52.00	1.75"	40.10				
2.00"	62.40	2.00"	48.10				
2.25"	69.80	2.25"	56.30				
2.50"	83.40	2.50"	64.40				
2.75"	93.60						
3.00"	104.2						



Unit dimensions of VGP-DC Side ported (SAE Versions)

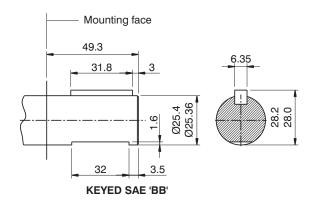
Shafts:

- Pump rotation as viewed from the shaft end: Clockwise rotation outlet on right; Counter clockwise rotation outlet on left
- 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

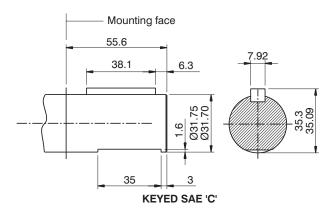
Drive shaft configurations:

VGP DGP

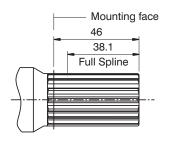
SHAFT CODE 4:



SHAFT CODE 6:

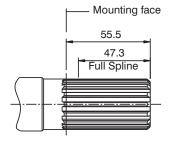


SHAFT CODE 5:



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

SHAFT CODE 7:



SAE-C splined shaft 12/24 dp.14 teeth 30° PA flat root side fit.

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

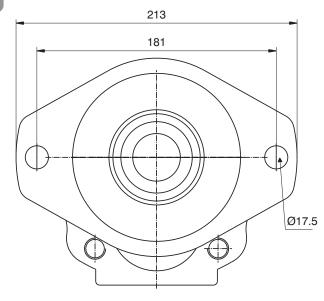
Code	Shaft type	Torque rating				
Code	Shart type	Nm	lb-ft			
4	KEYED SAE BB	340	250			
5	15 TEETH SPLINED SAE BB	500	370			
6	KEYED SAE C	675	500			
7	14 TEETH SPLINED SAE C	958	705			

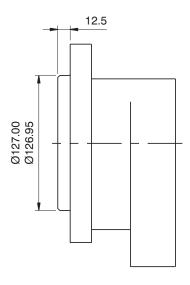


FLANGE DETAILS - 'DC' Series:-

VGP DGP

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





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

