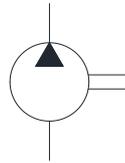


**PVR1T Series Single Vane Pumps**

These Pumps are widely used as a source of hydraulic power. They combine stable performance and robust construction with a wide range of delivery rates.

Graphic Symbol



**Specifications**

Model Number	Geometric Displacement cm <sup>3</sup> /rev.	Max. Opr. Pressure Kg/cm <sup>2</sup>	Output Flow and Input Power	Shaft Speed Range r/min.		Mass (Approx.) Kg.	
				Max.	Min.	Flange Mounting	Foot Mounting
PVR1T - 4	3.5	125	Refer to Page 110 & 111	1800	750	5.8	7.5
PVR1T - 6	5.5						
PVR1T - 8	7.8						
PVR1T - 10	8.7						
PVR1T - 12	11.5						
PVR1T - 15	13.8						
PVR1T - 17	16.0	6.2				8.0	
PVR1T - 31	22.0						

**Model Number Designation**

F -	PVR1T	- 4	- L	- R	A	A	-20	80
Special Seals **	Series	Nominal Delivery	Mounting	Direction of Rotation	Discharge Port Position	Suction Port Position	Design * Number	Design Standard
As Viewed From Shaft End								
<b>F:</b> For Phosphate Ester Type Fluids (Omit if not required)	PVR1T	4, 6, 8, 10, 12, 15, 17	L: Foot Type	R: Clock wise (Normal)			20	80
		31	F: Flange Type	L: Counter Clockwise				80H10

\* Design numbers subject to change from 20 to 29, but installation dimensions remain as shown.

\* For instructions regarding changing the port positions, consult YUKEN INDIA LTD.

\*\* Before ordering the Special Seals, consult YUKEN INDIA LTD.

**Cartridge Kit Model Number**

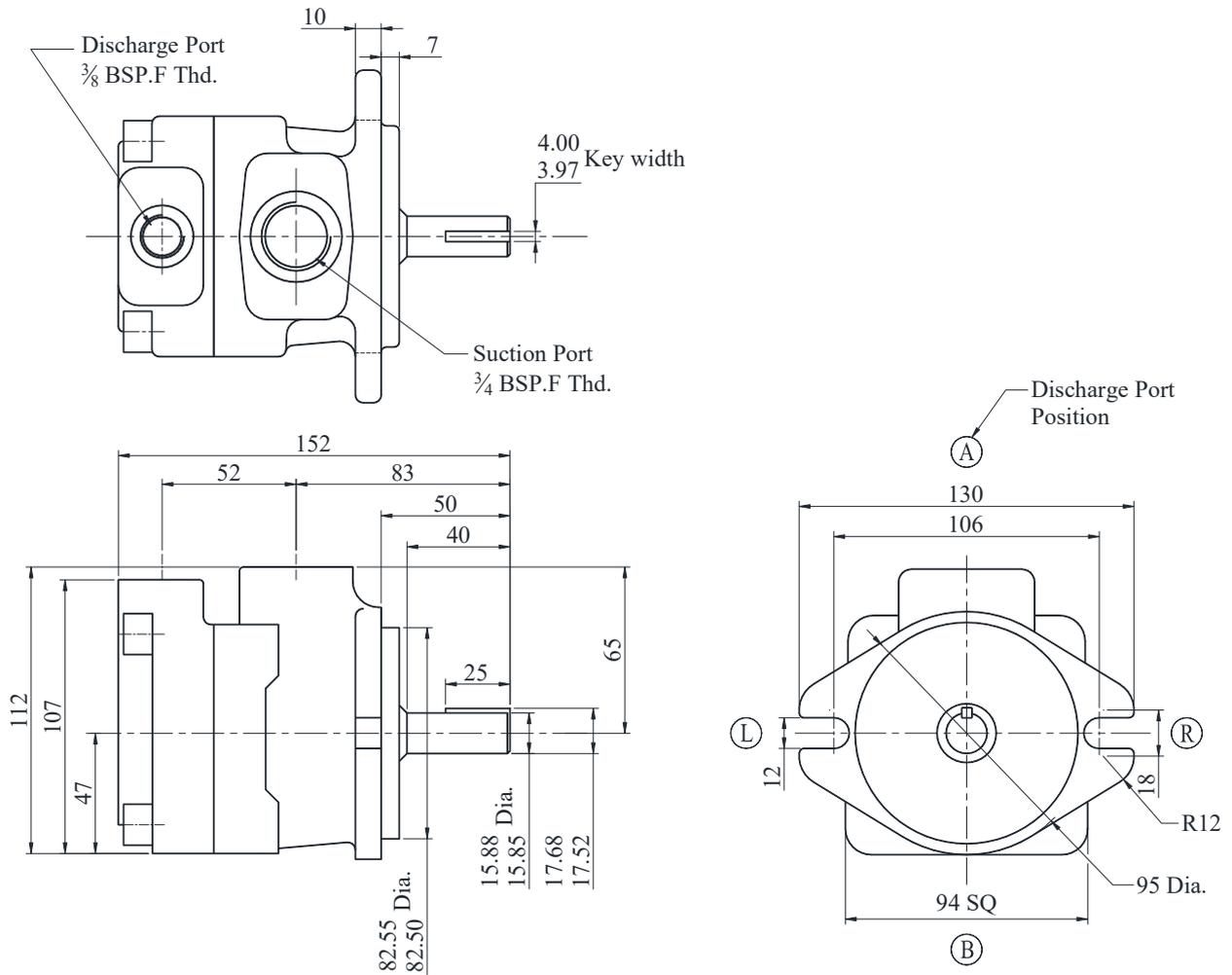
CPVR1T	-4	-R	-20
Model Number	Nominal Delivery	Shaft Rotation	Design No.
CPVR1T	4, 6, 8, 10, 12, 15, 17, 31	R: Clockwise (Normal) L: Counter-Clockwise	20

\* For instructions regarding replacing cartridge kit, consult YUKEN INDIA LTD.

**PVR1T-※-F-※※-2080**

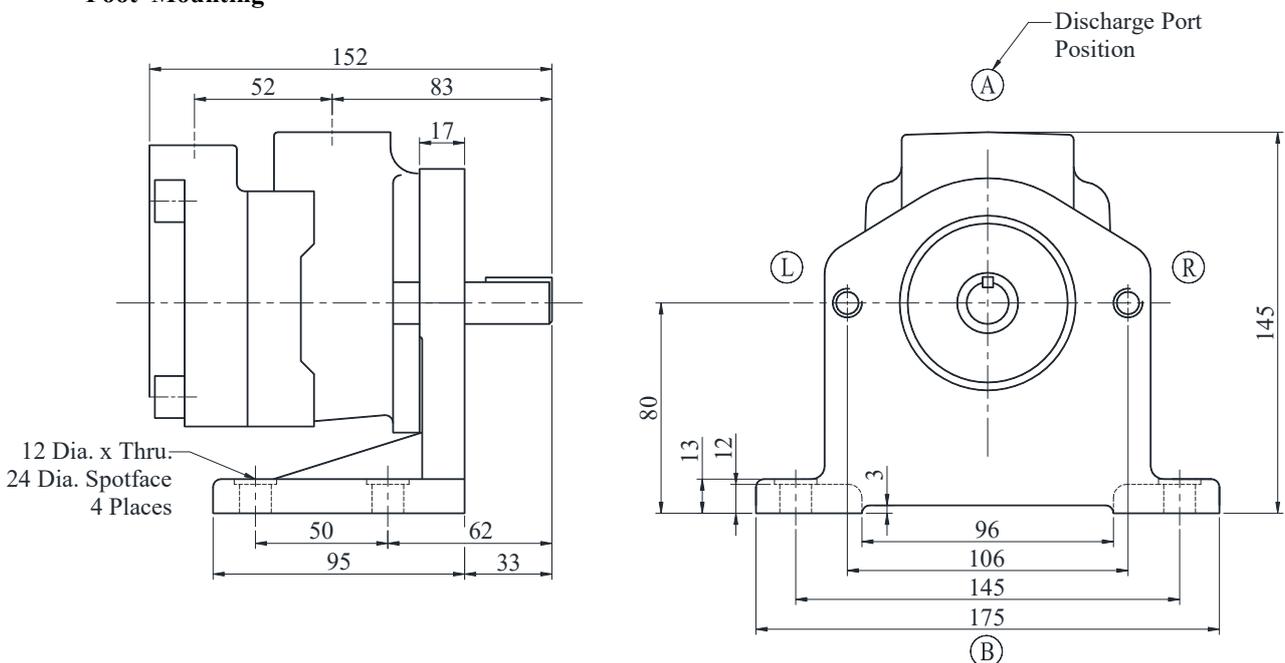
**DIMENSIONS IN MILLIMETRES**

● **Flange Mounting**



**PVR1T-※-L-※※-2080**

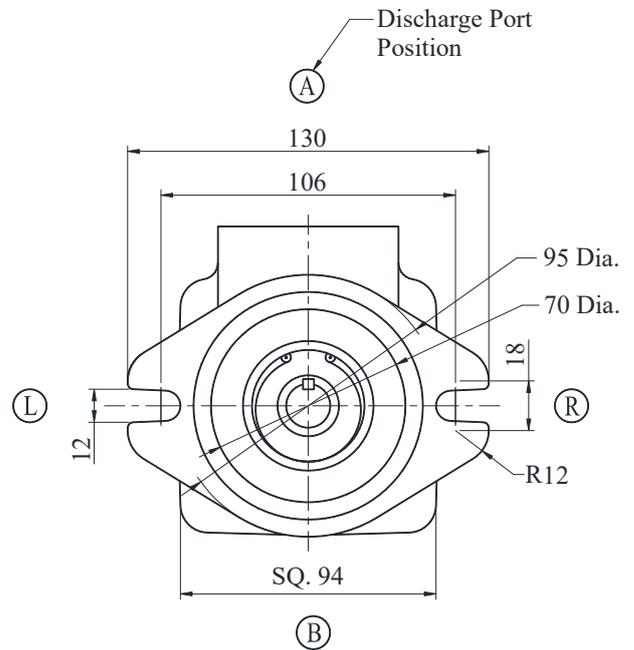
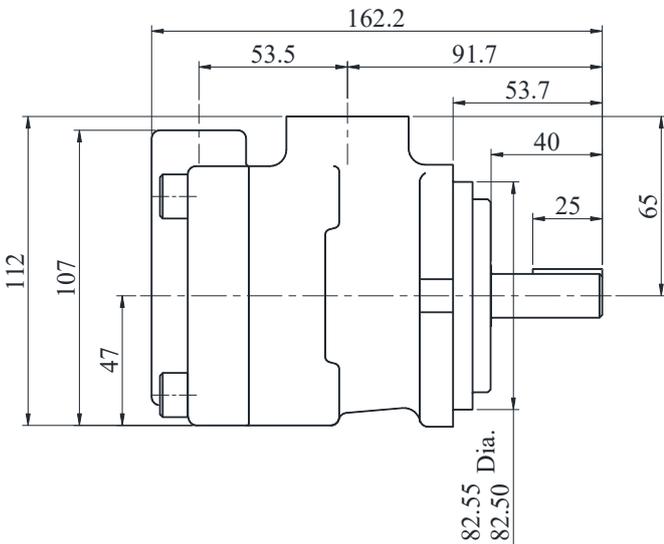
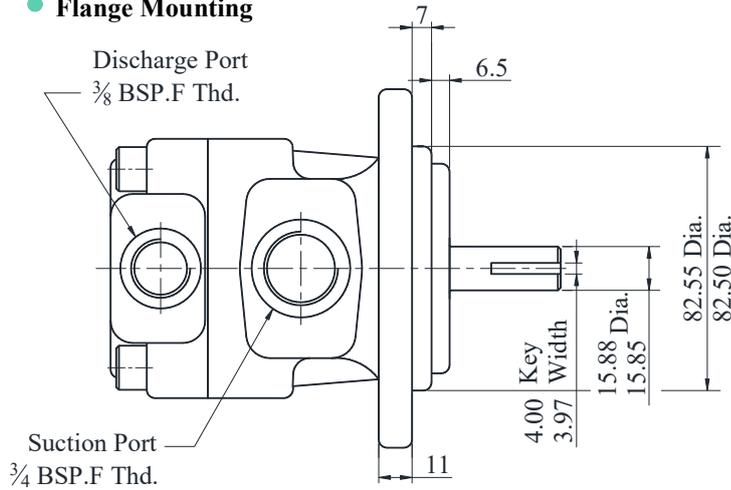
● **Foot Mounting**



**PVR1T-31-F-※※-2080H10**

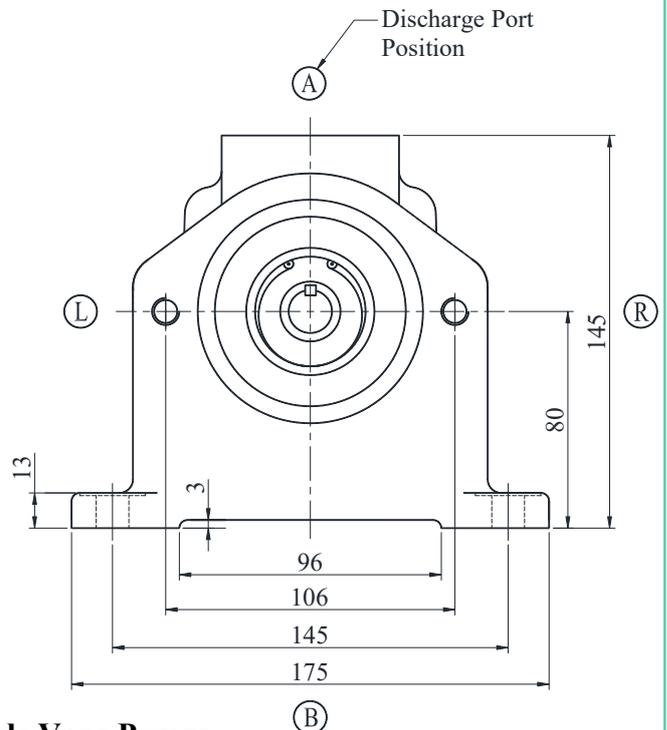
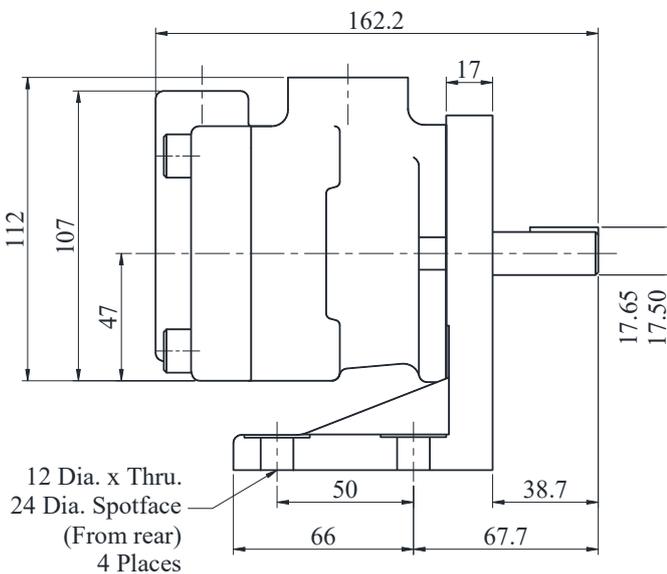
● **Flange Mounting**

DIMENSIONS IN MILLIMETRES



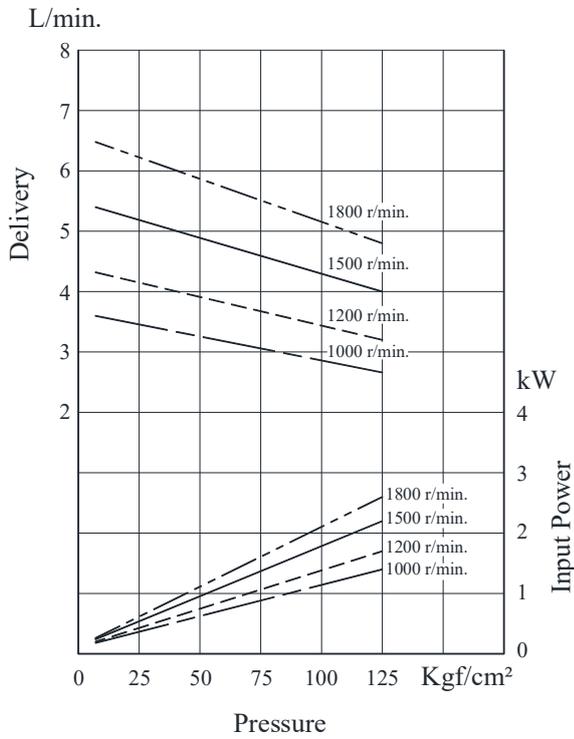
**PVR1T-31-L-※※-2080H10**

● **Foot Mounting**

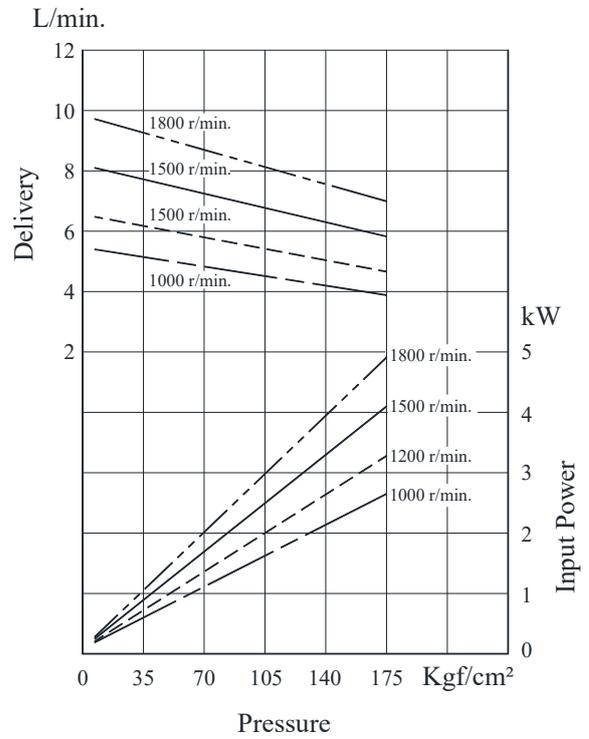


Typical Pump Characteristics Oil Viscosity 20 cSt [ISO VG 32, Temp 50<sup>0</sup> C]

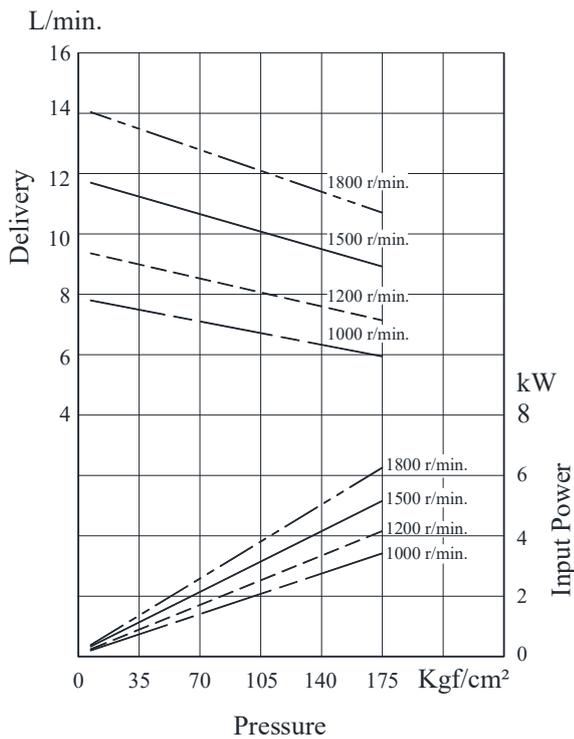
● **PVR1T - 4**



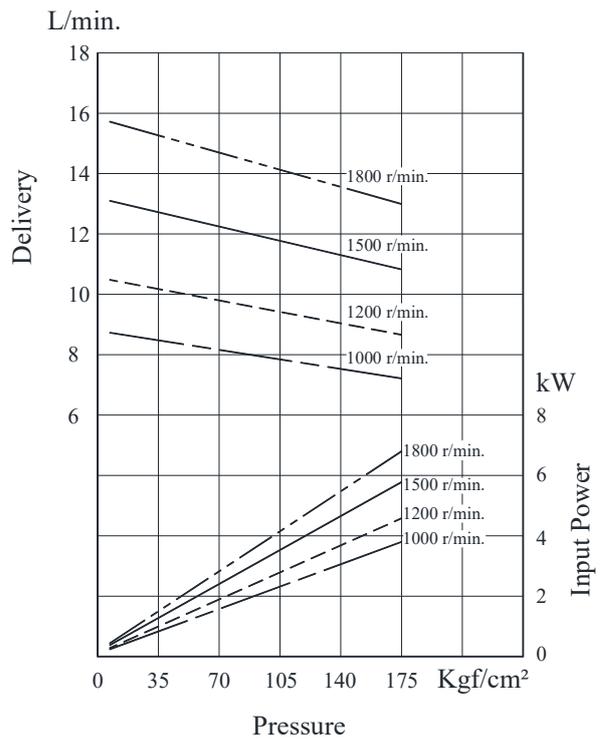
● **PVR1T - 6**



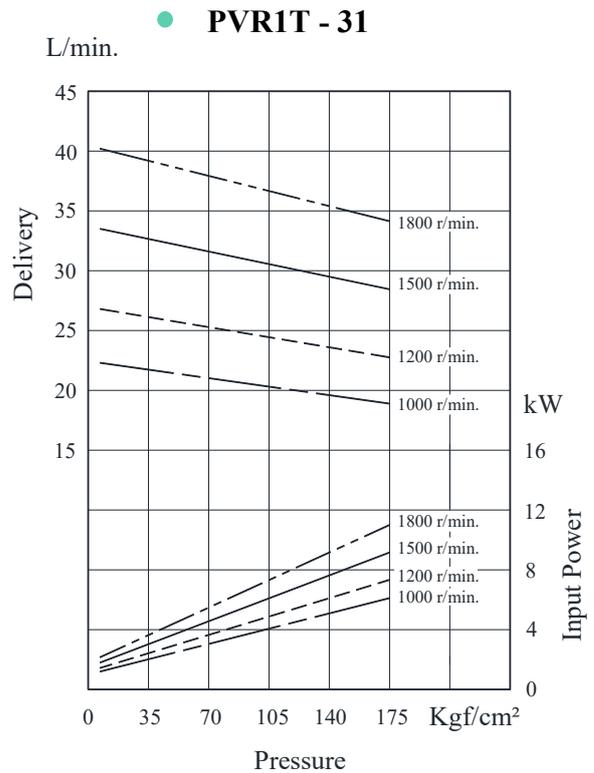
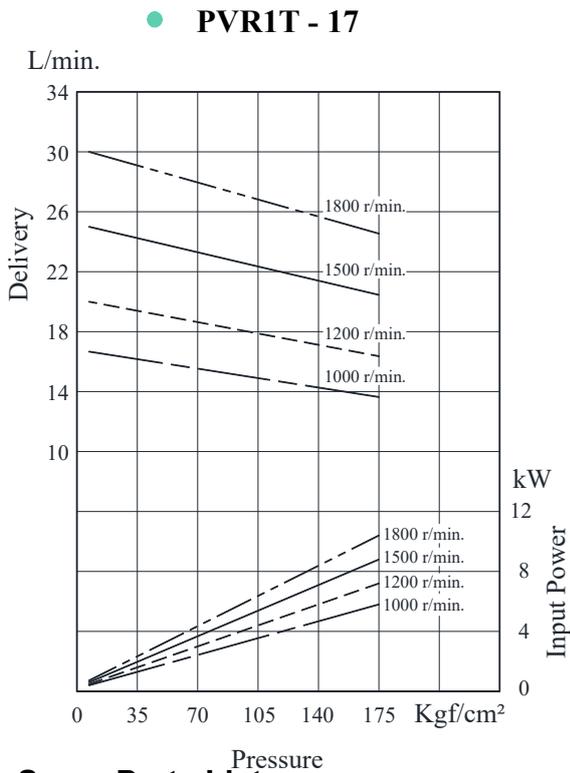
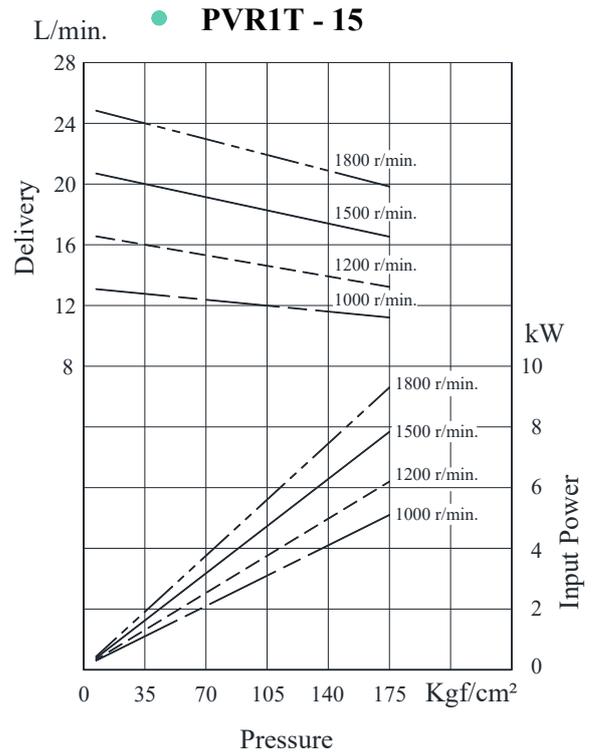
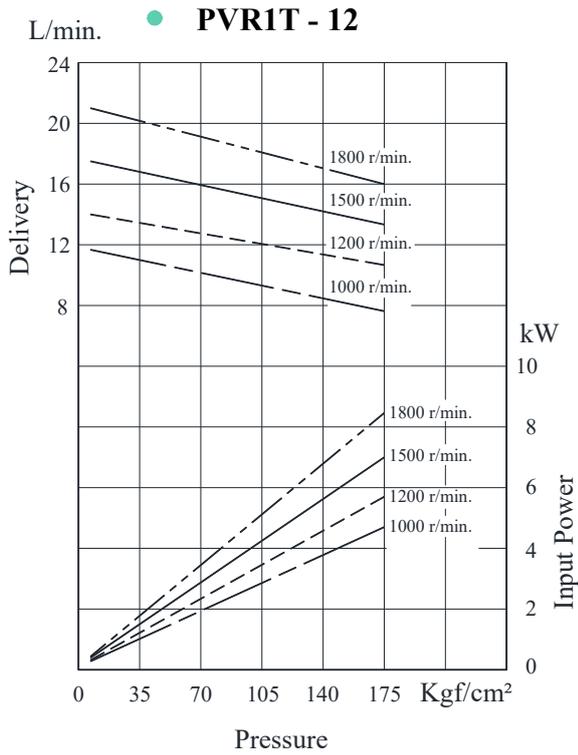
● **PVR1T - 8**



● **PVR1T - 10**



Typical Pump Characteristics Oil Viscosity 20 cSt [ISO VG 32, Temp 50<sup>0</sup> C]



**Spare Parts List**

● List of Seals

Sl. No.	Name of Parts	Part No.	Qty.
1.	O-Ring	SO-NB-G80	1
2.	O-Ring	SO-NB-G60	1
3.	O-Ring	SO-NB-G35	1
4.	Oil seal	ISD 20307	1

Note : When ordering the seals, please specify the seal kit number KS-PVR1T-2080.

**“PVR” Series Single Vane Pumps**

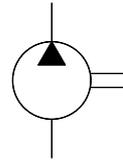
**B**

PVR Series  
Single Vane Pumps

**PVR50 Series Single Vane Pumps**

These pumps are widely used as a source of hydraulic power. They combine stable Performance and robust construction with a wide range of delivery rates.

Graphic Symbol



**Specifications**

Model Number	Geometric Displacement cm <sup>3</sup> /rev.	Max. Opr. Pressure Kgf/cm <sup>2</sup>	Output Flow and Input Power	Shaft Speed Range r/min.		Mass (Approx.) Kg.	
				Max.	Min.	Flange Mounting	Foot Mounting
PVR50-13	10.5	175	Ref. Page 110, 111 & 112	1800	600	12	14.7
PVR50-20	16.0						
PVR50-26	21.5						
PVR50-30	24.0						
PVR50-36	29.5						
PVR50-39	31.5						
PVR50-45	35.5						
PVR50-51	41.0						
PVR50-56	45.0						

**Model Number Designation**

F-	PVR50	-L	-F	-13	-	-R	A	A	-31	80
Special Seals **	Series Number	Type of Mounting	Type of Pipe Connection	Nominal Delivery	Shaft Type	Direction of Rotation	Discharge Port Position	Suction Port Position	Design * Number	Design Standard
						As Viewed From Shaft End				
<b>F:</b> For Phosphate Ester Type Fluids (Omit if not required)	<b>PVR50</b>	<b>L:</b> Foot Type  <b>F:</b> Flange Type	<b>F:</b> Flange Connection  <b>T:</b> Threaded Connection	<b>13</b> <b>20</b> <b>26</b> <b>30</b> <b>36</b> <b>39</b> <b>45</b> <b>51</b> <b>56</b> *1	<b>None:</b> Std. Shaft.  <b>1:</b> Special Shaft (For 51 & 56 Capacity Only)	<b>R:</b> Clockwise (Normal)  <b>L:</b> Counter Clockwise			<b>31</b>	<b>80</b>

\* Design numbers subject to change from 30 to 39, but installation dimensions remain as shown.

\* For instructions regarding changing the port positions, consult YUKEN INDIA LTD.

\*\* Before ordering the Special Seals, consult YUKEN INDIA LTD.

\*1 Threaded type connection is not available for 56 Capacity.

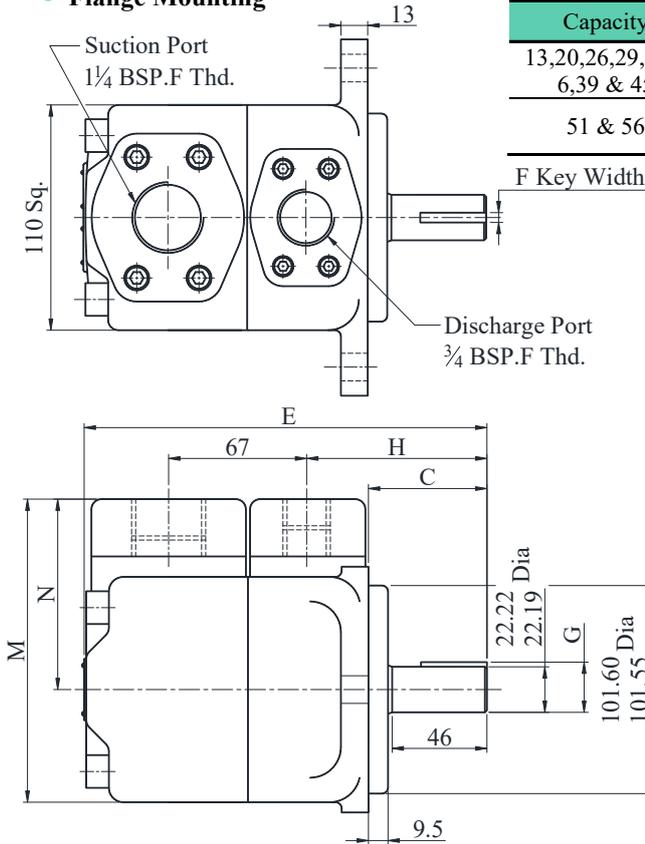
**Cartridge Kit Model Number**

CPVR50	-13	-R	-31
Model Number	Nominal Delivery	Shaft Rotation	Design No.
<b>CPVR50</b>	<b>13, 20</b> <b>26, 30</b> <b>36, 39</b> <b>45, 51</b> <b>56</b>	<b>R:</b> Clockwise (Normal)  <b>L:</b> Counter-Clockwise	<b>31</b>

\* For instructions regarding replacing cartridge kit, consult YUKEN INDIA LTD.

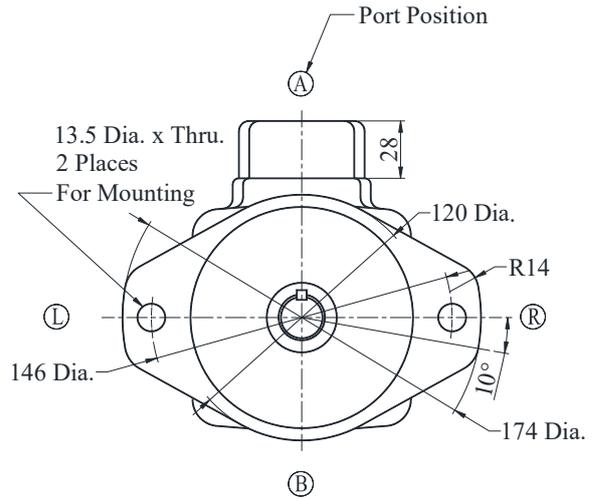
**PVR50-F-\*\*-\*\*-\*\*-3180**

● **Flange Mounting**



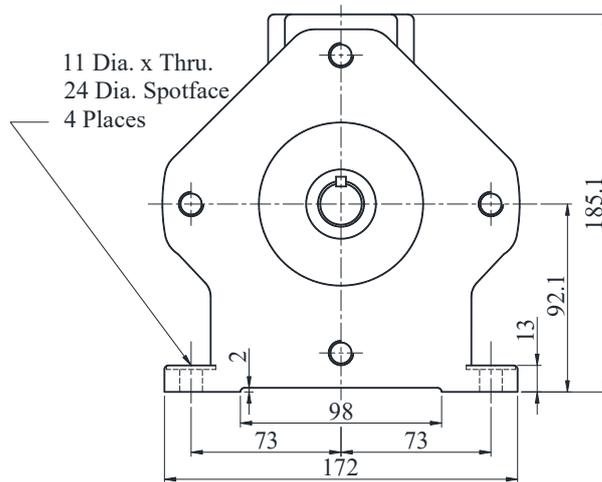
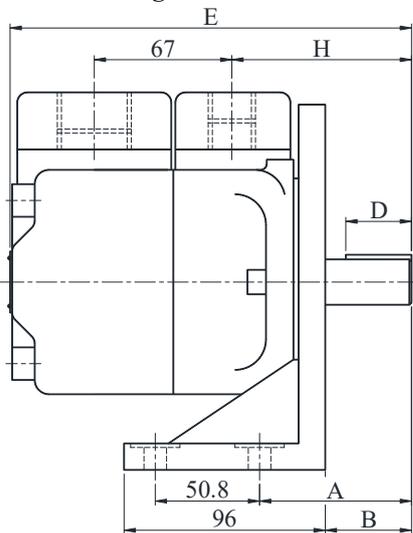
Capacity	A	B	C	D	E	F	G	H
13,20,26,29,30,3 6,39 & 45	74	42	59	32	197	4.79 4.76	24.500 24.330	87.5
51 & 56	86.4	54.4	71.4	38	209.4	6.38 6.35	24.925 24.774	100

Model	M	N
PVR50-**-F-	148	93
PVR50-**-T-	136	81



**PVR50-L-\*\*-\*\*-\*\*-3180**

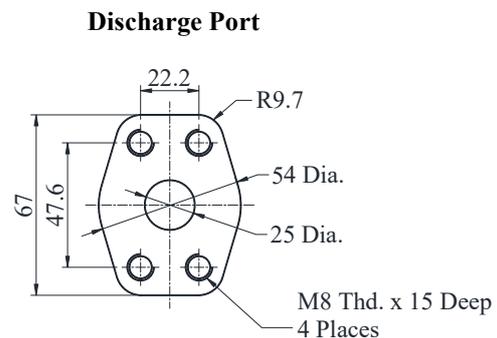
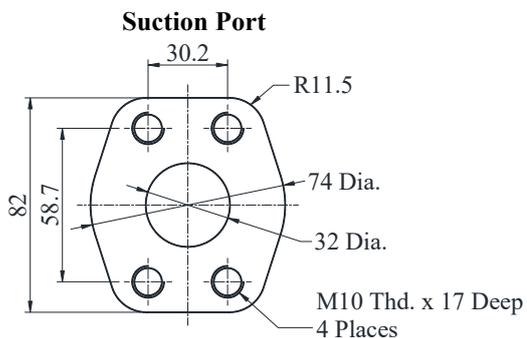
● **Foot Mounting**



**DIMENSIONS IN MILLIMETRES**

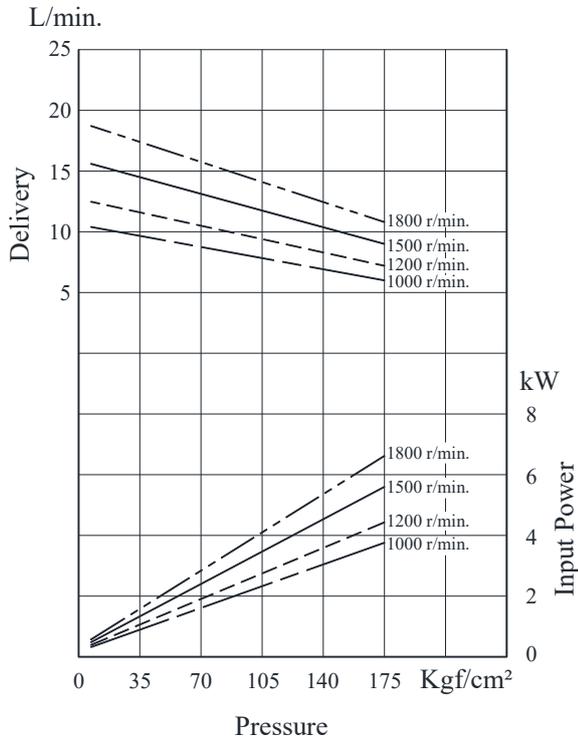
For Other Dimensions see Flange Mounting.

**For Reference: Dimensions of Pipe Flange Mounting Surfaces**

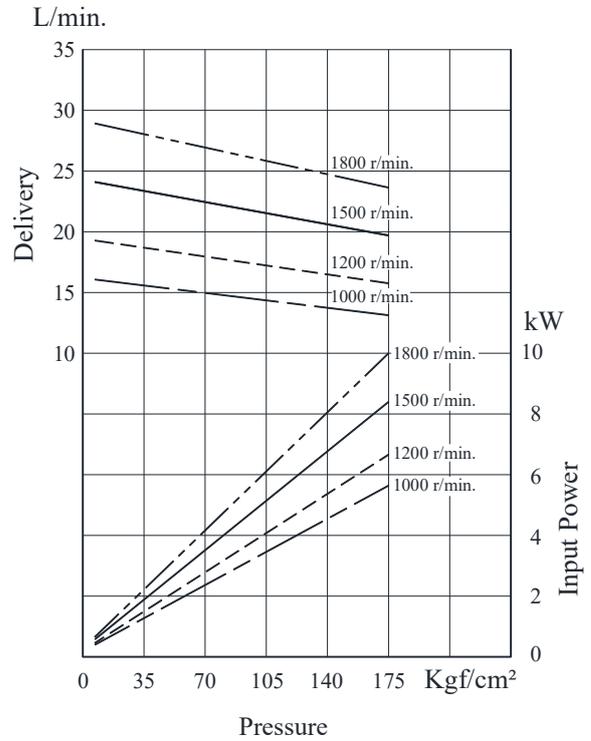


Typical Pump Characteristics Oil Viscosity 20 cSt [ISO VG 32, Temp 50<sup>0</sup> C]

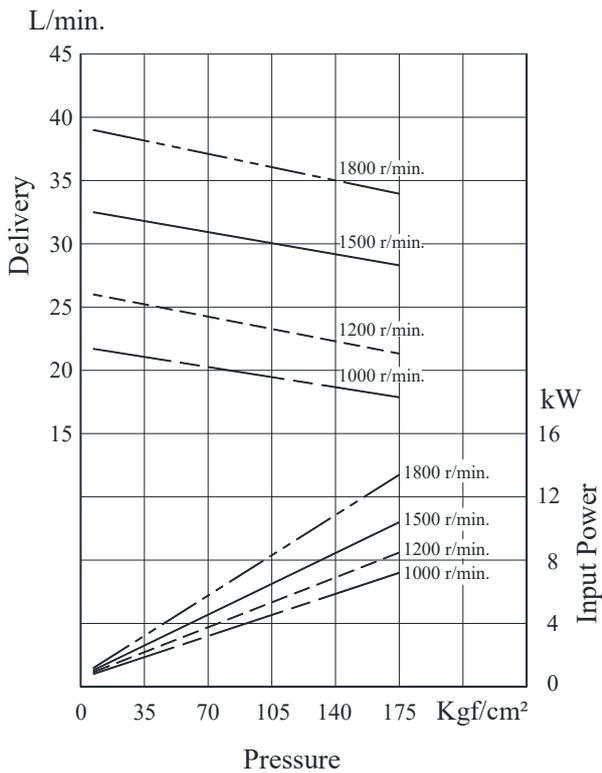
● **PVR50 - 13**



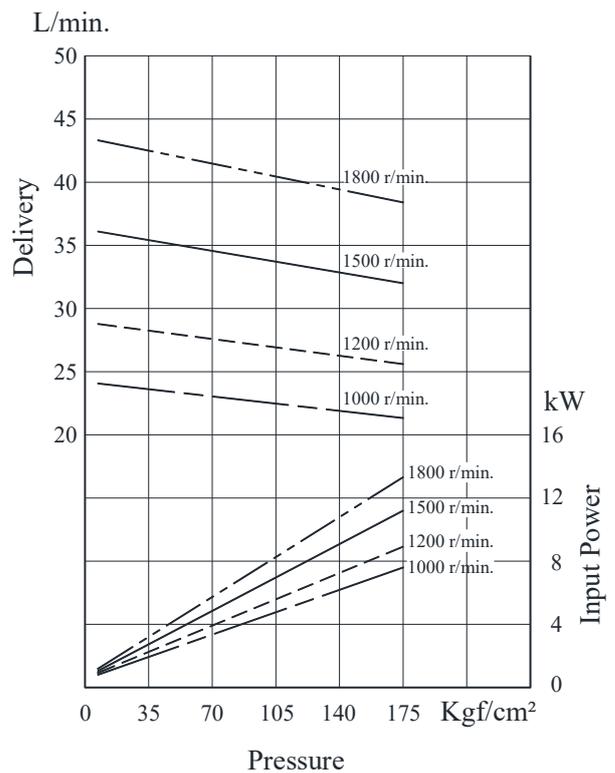
● **PVR50 - 20**



● **PVR50 - 26**

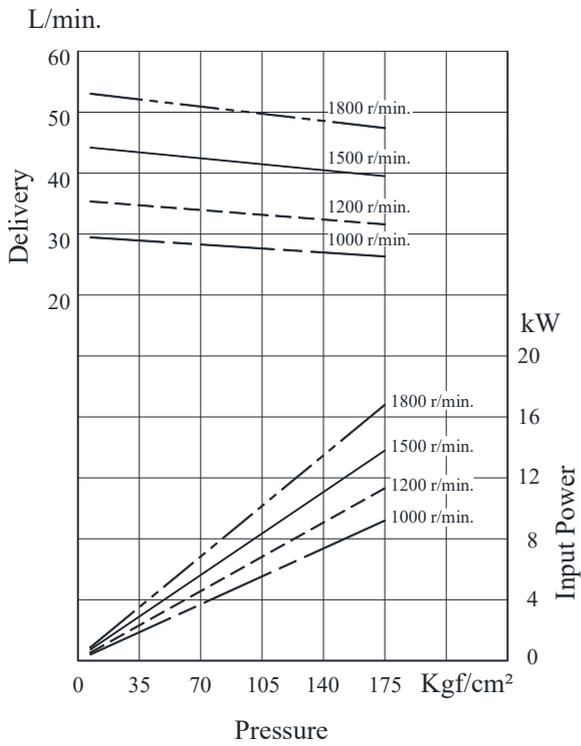


● **PVR50 - 30**

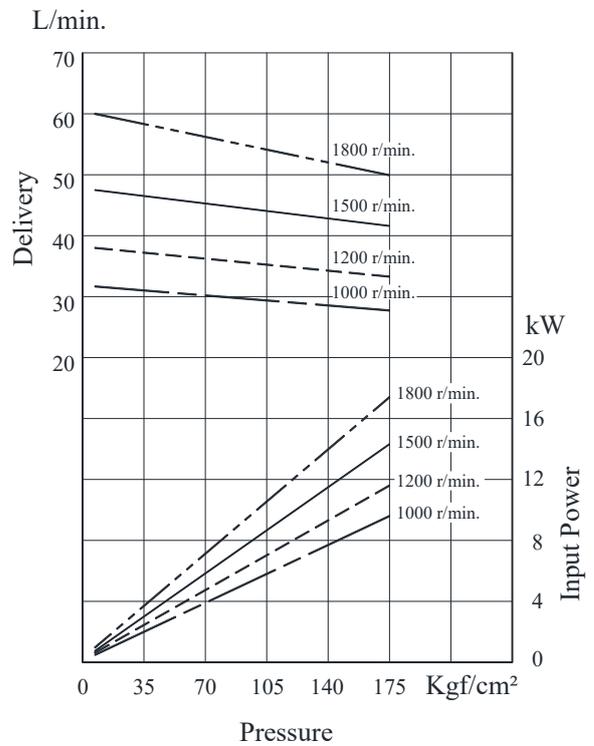


Typical Pump Characteristics Oil Viscosity 20 cSt [ISO VG 32, Temp 50<sup>0</sup> C]

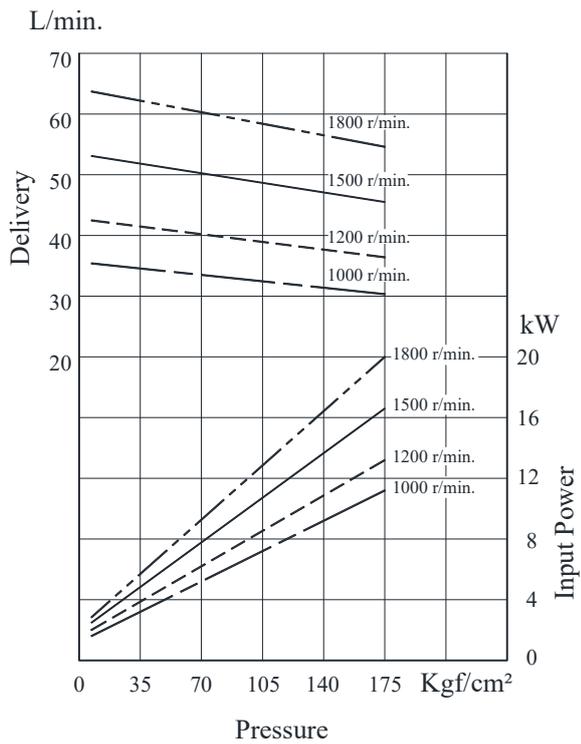
● **PVR50 - 36**



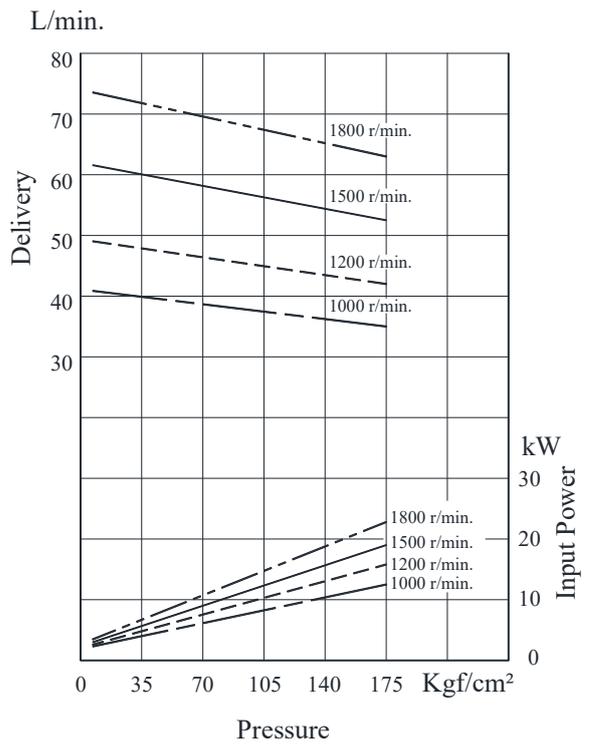
● **PVR50 - 39**



● **PVR50 - 45**

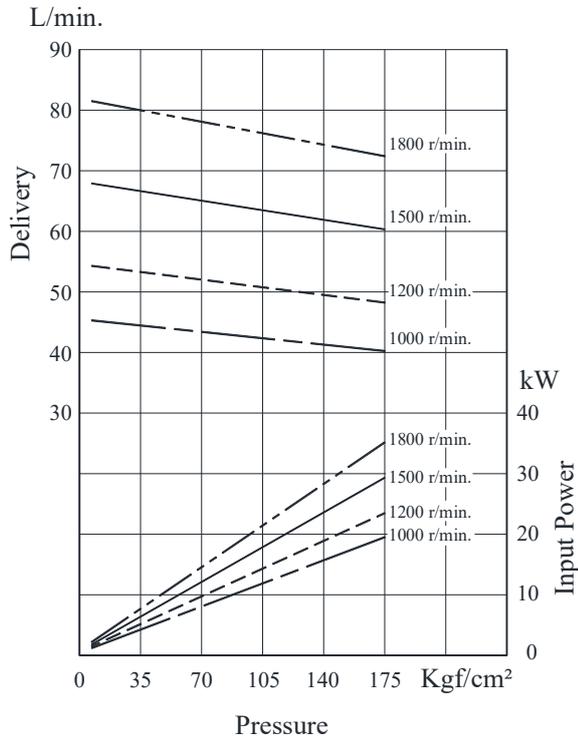


● **PVR50 - 51**



**Typical Pump Characteristics Oil Viscosity 20 cSt [ISO VG 32, Temp 50<sup>0</sup> C]**

● **PVR50 - 56**



■ **Flanges**

Note: Please refer page no. 725 for flange details.

■ **Spare Parts List**

● **List of Seals**

Sl. No.	Name of Part	Part Number	Qty.
1	O-Ring	SO-NA-G80	1
2	O-Ring	SO-NA-P41	1
3	O-Ring	SO-NB-G85	1
4	Backup-Ring	SO-BB-G80	1
5	Backup-Ring	SO-BB-P41	1
6	Oil Seal	ISPD 25388	1

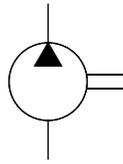
Note: When ordering the seals, please specify the seal kit number KS-PVR50-3180.

**PVR 150-Series Single Vane Pumps**

These pumps are widely used as a source of hydraulic power. They combine stable performance and robust construction with a wide range of delivery rates.



Graphic Symbol



**Specifications**

Model Number	Geometric Displacement cm <sup>3</sup> /rev.	Max. Opr. Pressure Kgf/cm <sup>2</sup>	Output Flow and Input Power	Shaft Speed Range r/min.		Mass (Approx.) Kg.	
				Max.	Min.	Flange Mounting	Foot Mounting
PVR150 – 60	47	175	Refer Page 115 & 116	1800*	600	29.3	35.9
PVR150 – 70	57						
PVR150 – 90	75						
PVR150 – 110	92						
PVR150 – 140	115						
PVR150 – 170	135						

\* For speeds above 1500 r/min., consult factory for information.

**Model Number Designation**

F-	PVR150	-L	-F	-60	-R	A	A	-34	80
Special Seals **	Series Number	Type of Mounting	Type of pipe Connection	Nominal Delivery	Direction of Rotation	Discharge Port Position	Suction Port Position	Design * Number	Design Standard
						As Viewed From Shaft End			
<b>F:</b> For Phosphate Ester Type Fluids (Omit if not required)	<b>PVR150</b>	<b>L:</b> Foot Type <b>F:</b> Flange Type	<b>F:</b> Flange Connection	<b>60</b> <b>70</b> <b>90</b> <b>110</b> <b>140</b> <b>170</b>	<b>R:</b> Clockwise (Normal)  <b>L:</b> Counter Clockwise			<b>34</b>	<b>80</b>

\* Design numbers subject to change from 30 to 39, but installation dimensions remain as shown.

\*\* For instructions regarding changing the port positions, consult YUKEN INDIA LTD.

\*\*\* Before ordering the Special Seals, consult YUKEN INDIA LTD.

**Cartridge Kit Model Number**

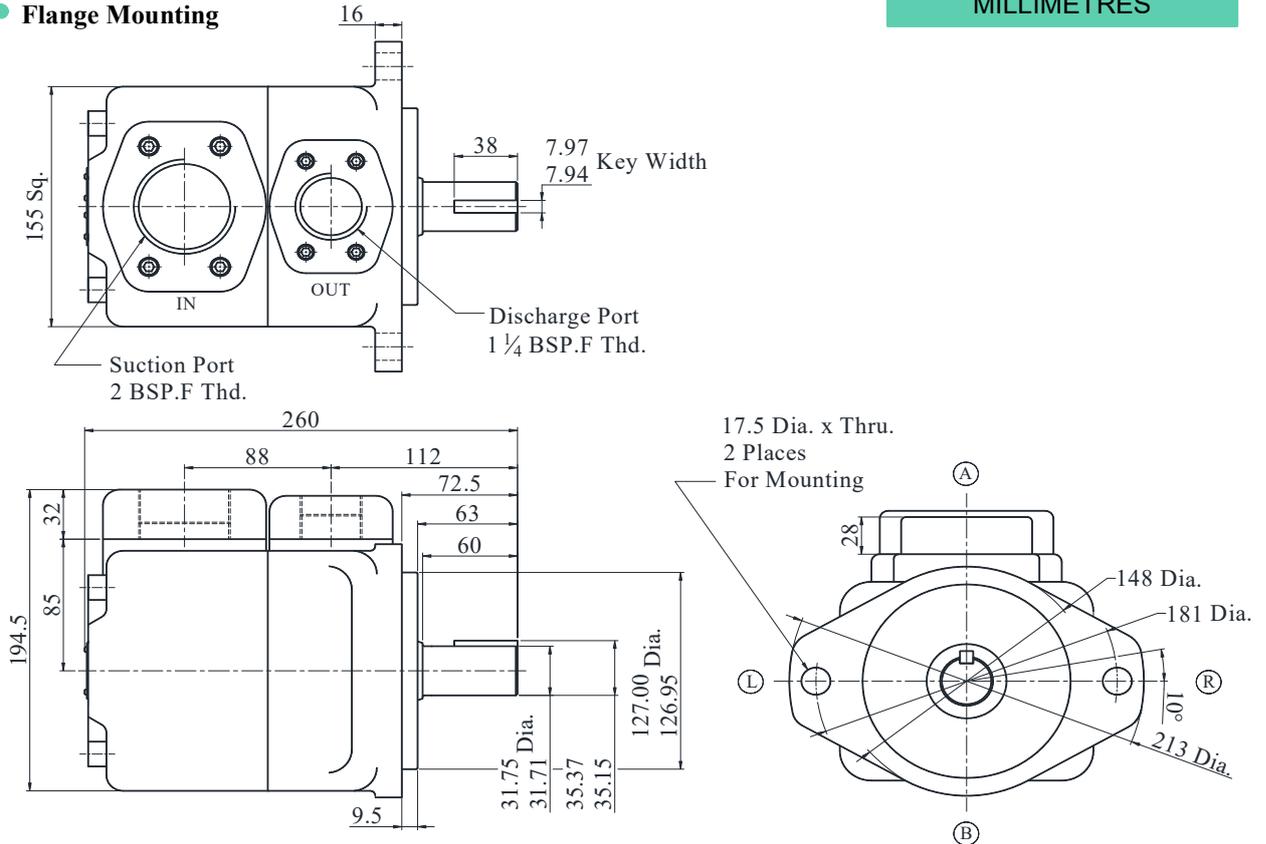
CPVR150	-60	-R	-33
Model Number	Nominal Delivery	Shaft Rotation	Design No.
<b>CPVR150</b>	<b>60</b> <b>70</b> <b>90</b> <b>110</b> <b>140</b> <b>170</b>	<b>R:</b> Clockwise (Normal)  <b>L:</b> Counter-Clockwise	<b>33</b>

\* For instructions regarding replacing cartridge kit, consult YUKEN INDIA LTD.

**PVR150-F-F-※-※※※-3480**

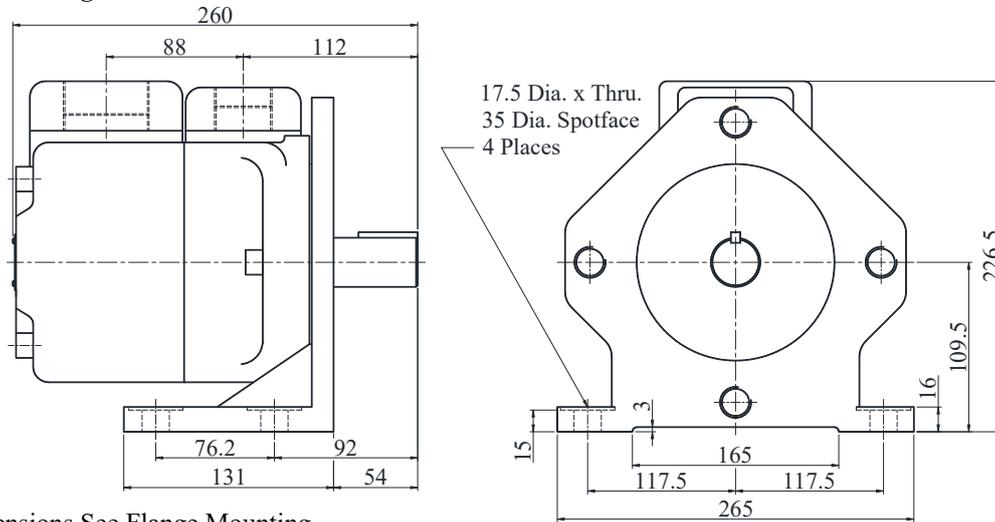
● **Flange Mounting**

**DIMENSIONS IN MILLIMETRES**



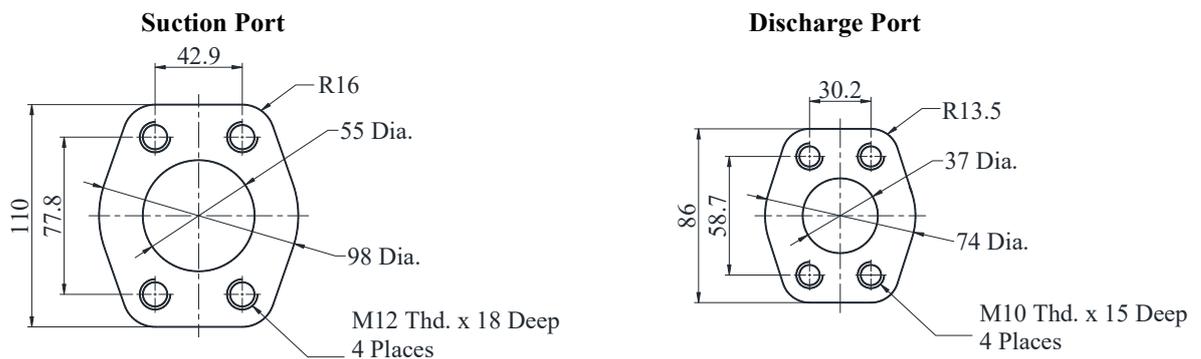
**PVR150-L-F-※-※※※-3480**

● **Foot Mounting**



For other Dimensions See Flange Mounting

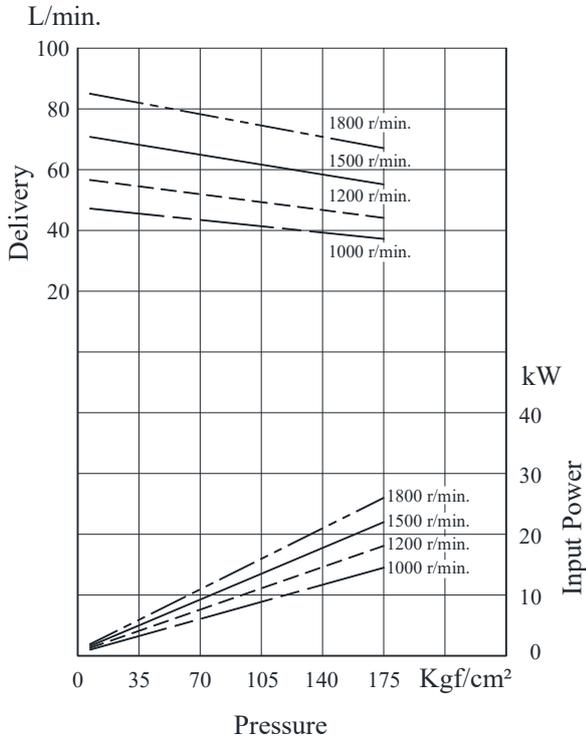
**For Reference : Dimensions of Pipe Flange Mounting Surfaces**



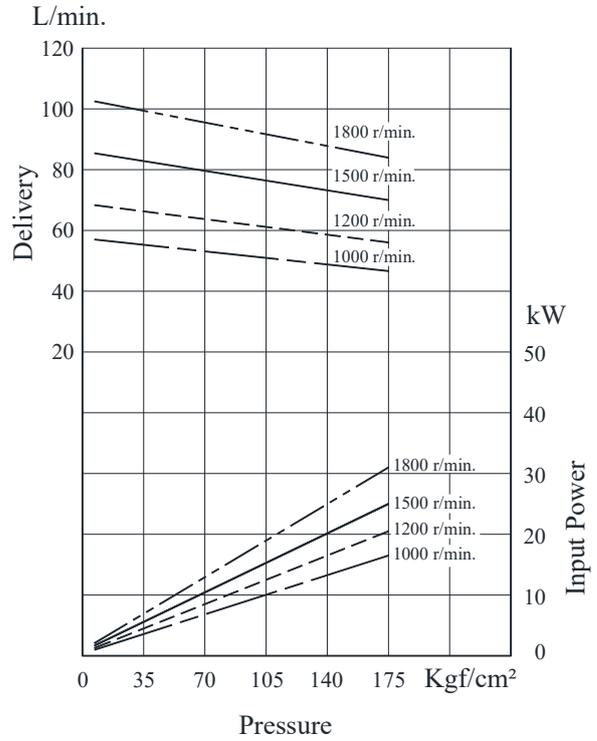
**“PVR” Series Single Vane Pumps**

Typical Pump Characteristics Oil Viscosity 20 cSt [ISO VG 32, Temp 50<sup>0</sup> C]

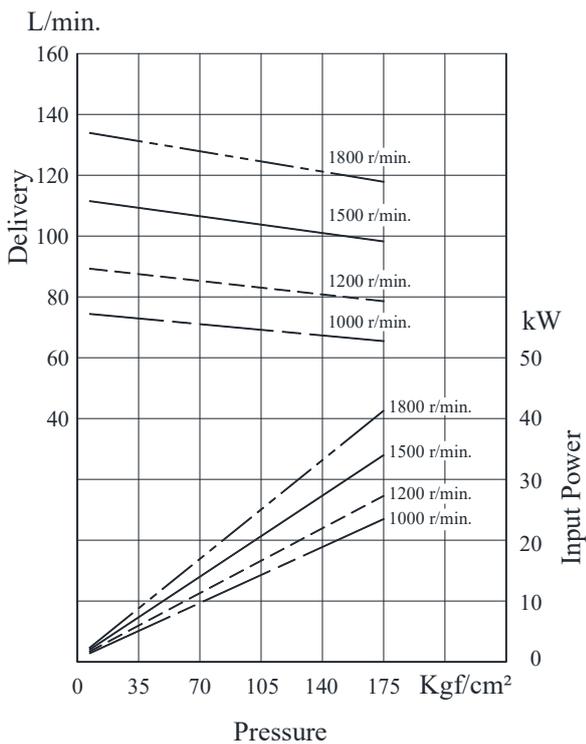
● PVR 150 - 60



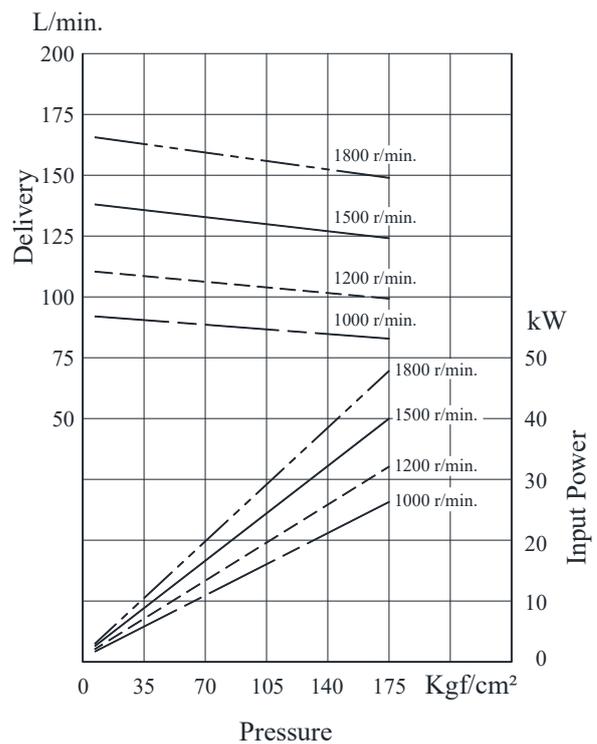
● PVR 150 - 70



● PVR 150 - 90

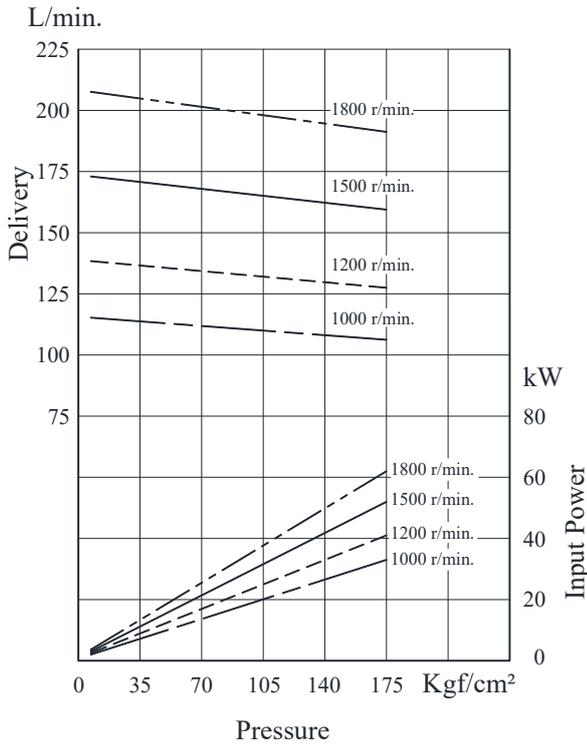


● PVR 150 - 110

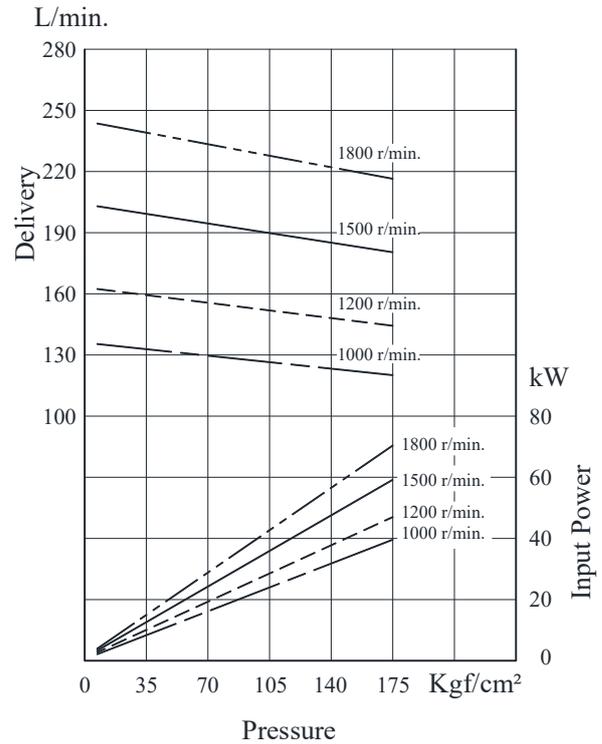


**Typical Pump Characteristics Oil Viscosity 20 cSt [ISO VG 32, Temp 50<sup>0</sup> C]**

● **PVR 150 - 140**



● **PVR 150 - 170**



■ **Spare Parts List**

● **List of Seals**

Sl. No.	Name of Part	Part number	Qty.
1	O-Ring	SO-NA-G120Y	1
2	O-Ring	ARP568231	1
3	O-Ring	SO-NB-G125	1
4	Backup-Ring	JISW1516-G9	1
5	Backup-Ring	SO-BB-G120	1
6	Oil Seal	TC38558-7	1

Note: When ordering the seals, please specify the seal kit number KS-PVR150-3480.

■ **Flanges**

Note: Please refer page no. 749 for flange details.

■ **Cartridge Kit Model Number**

Pump Model Numbers	Cartridge Kit Number #
PVR1T-6-※-R※-2080	CPVR1T-06-R-20
PVR1T-10-※-R※-2080	CPVR1T-10-R-20
PVR1T-15-※-R※-2080	CPVR1T-15-R-20
PVR50-※-※-20-R※※-3180	CPVR50-20-R-31
PVR50-※-※-36-R※※-3180	CPVR50-36-R-31
PVR50-※-※-45-R※※-3180	CPVR50-45-R-31
PVR150-※-F-70-R※※-3480	CPVR150-70-R-33
PVR150-※-F-110-R※※-3480	CPVR150-110-R-33

\* For instructions regarding replacing cartridge kit, consult YUKEN INDIA LTD.

# The above table does not include all combinations of cartridges available. Only a few representative samples are shown.

**“PVR” Series Single Vane Pumps**