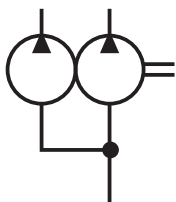


S-PV2R Series Double Vane Pumps Max. Pressure 21 MPa



Graphic Symbol



- These double pumps consist of two PV2R series single pumps combined in tandem within a single housing and driven by a common shaft.
- Fluid delivered from the two separate ports can be either supplied to separate or common circuits.

Model Number Designation

S-PV2R12	—6	—65	—L	—R	E	A	A	—42
Series Number	Small Volume Pump Nominal Displacement cm ³ /rev	Large Volume Pump Nominal Displacement cm ³ /rev	Mounting	Direction of Rotation (view from shaft end)	Small Volume Pump Discharge port position (viewed from shaft end)	Large Volume Pump Discharge port position (viewed from shaft end)	Suction Port Position (viewed from shaft end)	Design Number
PV2R12		26 33 41 47			E: Left up (Normal) F: Right up G: Right down H: Left down			43
S-PV2R12	6 8 10 12	65 75						45
PV2R13	14 17 19 23	60 66 76 85			A: Upwards (Normal) B: Downwards			43
S-PV2R13	25 31	94 108 116 125						45
★1 PV2R14	(Compulsory Extruded Vanes Type)	136 153 184 200	L: Foot Mounting	R: Clockwise (Normal)	R: Right L: Left	A: Upwards (Normal) B: Downwards	A: Upwards (Normal) B: Downwards	33
S-PV2R14		237						35
PV2R22		26 33 41 47 53 59 65 75 (Close to shaft end)						40
PV2R23		60 66 76 85			E: Left up (Normal) F: Right up G: Right down H: Left down			41
S-PV2R23	26 33 41 47 53 59	94 108 116 125	F: Flange Mounting	L: Anti-clockwise	A: Upwards (Normal) B: Downwards R: Right L: Left	R: Right L: Left	R: Right L: Left	45
★1 PV2R24	65 75							31
S-PV2R24		136 153 184 200			E: Left up (Normal) F: Right up G: Right down H: Left down			35
★1 PV2R34		237						31
S-PV2R34	60 66 76 85 94 108							35
★1 PV2R33	116 125	60 66 76 85 94 108 116 125			A: Upwards (Normal) B: Right down R: Right L: Left			31
S-PV2R33								35

* "★1": Delivery is longer, if you have any requirement, please contact our sales engineers.

* Nominal Displacement of 26.33.53.60.66 can be used only for Double Vane Pumps (Pressure-Output Flow, Input Power Characteristics, please refer to page 30~32.)

* Nominal Displacement 6.8.10.12.14 force to push the vane out.

Pipe Flange

Pump Model No.	Pipe Flange Kit Model No.		
	Suction	Large Pump Discharge	Small Pump Discharge
PV2R12	F5-16 -A- 10T	F5-06 -A- 10T	F5-04 -A- 10T
S-PV2R12	F5-20 -A- 10T	F5-08 -A- 10T	F5-06 -A- 10T
PV2R13	F5-24 -B- 10T	F5-10 -A- 10T	F5-04 -A- 10T
S-PV2R13	F5-24 -B- 10T	F5-10 -A- 10T	F5-06 -A- 10T
PV2R14	F5-28 -B- 10T	F5-12 -A- 10T	F5-04 -A- 10T
S-PV2R14	F5-28 -B- 10T	F5-12 -B- 10T	F5-06 -B- 10T
PV2R22	F5-20 -A- 10T	F5-06 -A- 10T	F5-06 -A- 10T
PV2R23	F5-24 -B- 10T	F5-10 -A- 10T	F5-06 -A- 10T
S-PV2R23	F5-24 -B- 10T	F5-10 -A- 10T	F5-08 -A- 10T
PV2R24	F5-28 -B- 10T	F5-12 -A- 10T	F5-06 -A- 10T
S-PV2R24	F5-28 -B- 10T	F5-12 -B- 10T	F5-08 -B- 10T
PV2R33	F5-28 -B- 10T	F5-10 -A- 10T	F5-10 -A- 10T
S-PV2R33	F5-28 -B- 10T	F5-10 -A- 10T	F5-10 -A- 10T
PV2R34	F5-32 -B- 10T	F5-12 -B- 10T	F5-10 -B- 10T
S-PV2R34	F5-32 -B- 10T	F5-12 -B- 10T	F5-10 -B- 10T

● In Pipe Flange Kit Model No. A: Threaded Connection / B: For Pipe Socket Welding.

● Details of the pipe flange kit are described please refer to page 50.

● When ordering, please specify pipe flange kit model.

HYDRAULIC PUMPS



(S)-PV2R Series Double Vane Pumps Max. Pressure 21 MPa

Ratings

Maximum Operation Pressure

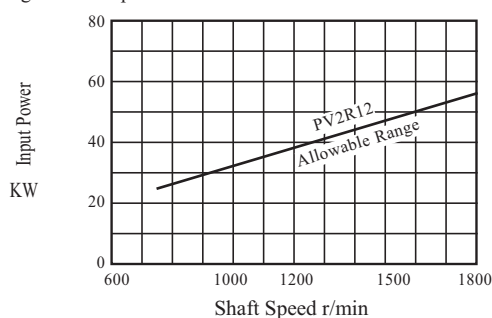
Nominal Displacement	Geometric Displacement cm ³ /rev	Maximum Operation Pressure MPa (kgf/cm ²)
6	5.8	★1 21 (210)
8	8.0	
10	9.4	
12	12.2	
14	13.7	
17	16.6	
19	18.6	
23	22.7	
25	25.3	21 (210)
31	31.0	
26	26.6	
33	33.3	
41	41.3	
47	47.2	
53	52.5	
59	58.2	
65	64.7	★2 16 (160)
75	75	
60	59.6	
66	66.3	
76	76.4	
85	85	
94	93.6	
108	108	★2 17.5 (175)
116	115.6	
125	125	
136	136	
153	153	
184	184	
200	201	
237	237	

★1. When small volume pump pressure above 16 MPa (160 kgf/cm²), shaft rotation speed must raise more than 1450 rpm.

★2. When you choose Nominal Displacement, the Maximum operation pressure is limited at 14/16/17.5.

Limit of the Input Power

(S)-PV2R12 series, the sum of the input power to small volume pump and large volume pump is limited against the speed of shaft rotation as follows:



Shaft Speed Range

Model Numbers	Shaft Speed Range r/min	
	★3 Maximum	★4 Minimum
(S)-PV2R12	1800	750
(S)-PV2R13	1800	750
(S)-PV2R14	1800	750
(S)-PV2R23	1800	600
(S)-PV2R24	1800	600
(S)-PV2R34	1800	600

★3. The minimum suction pressure is limited in accordance with the speed. Please refer to page 8 (Table 1) for details.

★4. The Limit of Maximum Viscosity at low starting rotation speed. Please refer to page 8 (Table 2) for details.

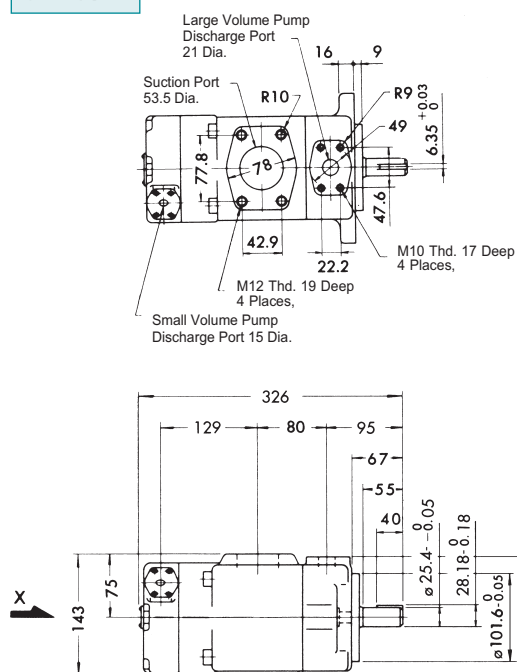
Mass

Pump Model No.	Mass kg	
	Flange Mtg.	Foot Mtg.
PV2R12	25	29.3
S-PV2R12	41	51
PV2R13	45.6	55.6
S-PV2R13	64	74
PV2R14	75	100
S-PV2R14	94	119
PV2R22	57	61
PV2R23	51	61
S-PV2R23	74	84
PV2R24	78	103
S-PV2R24	112	137
PV2R33	84	94
S-PV2R33	92	102
PV2R34	98	123
S-PV2R34	126	151

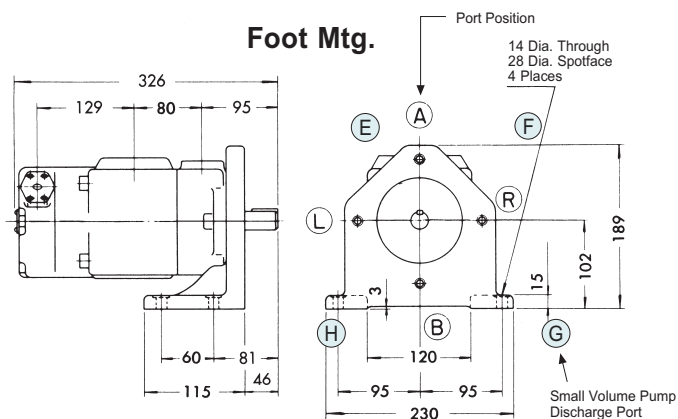
(S)-PV2R Series Double Vane Pumps Max. Pressure 21 MPa

PV2R12

Flange Mtg.



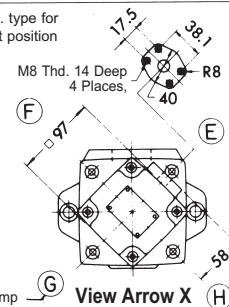
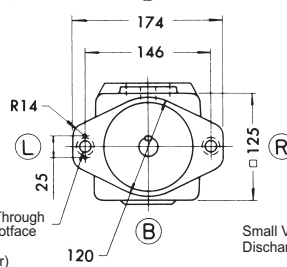
Foot Mtg.



For other dimensions, please refer to "Flange Mtg."

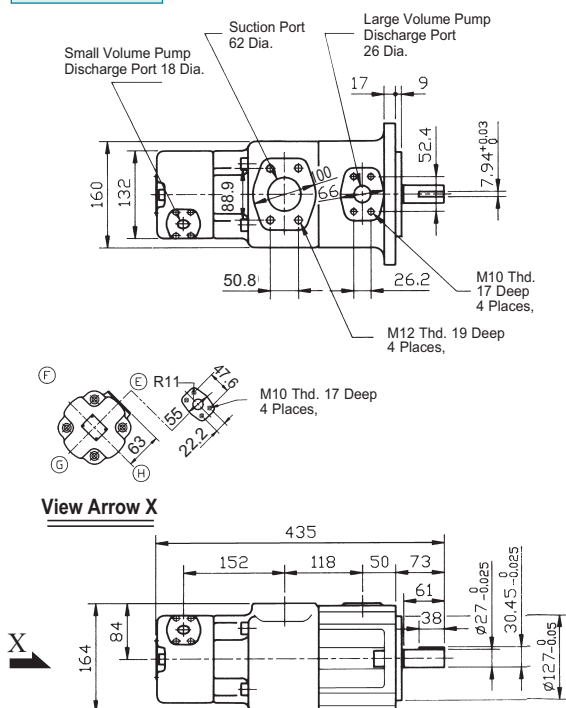
Suction Port & Large Volume Pump Discharge Port Position

※ Discharge port of flange mtg. type for the big volume: only (A) port position

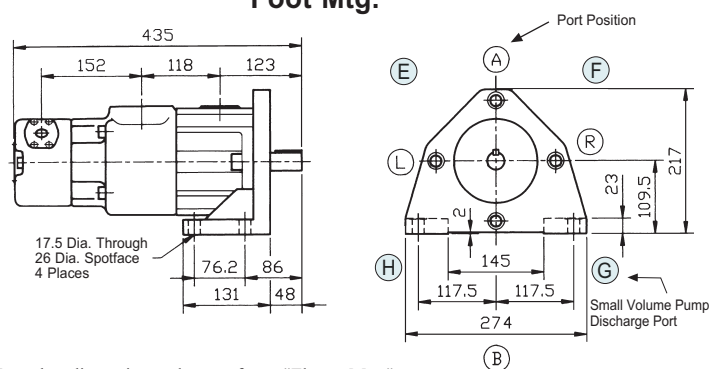


S-PV2R12

Flange Mtg.



Foot Mtg.

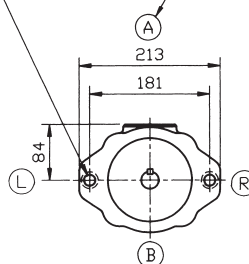


For other dimensions, please refer to "Flange Mtg."

Port Position

※ Discharge port of flange mtg. type for the big volume: only (A) port position

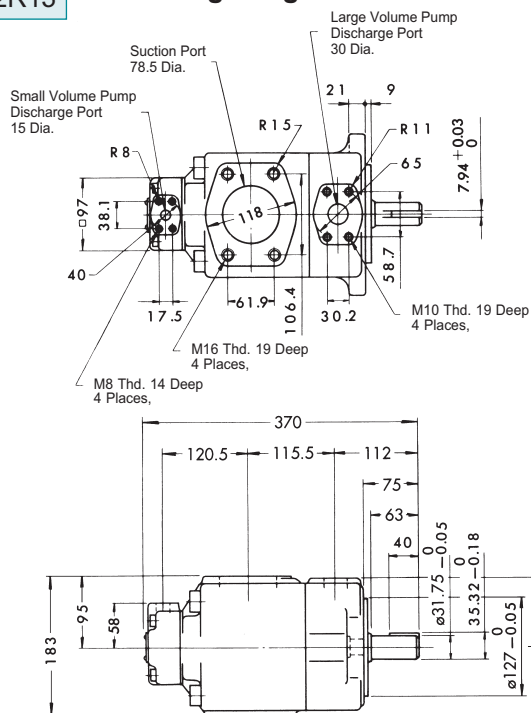
17.5 Dia. Through 26 Dia. Spotface 2 Places



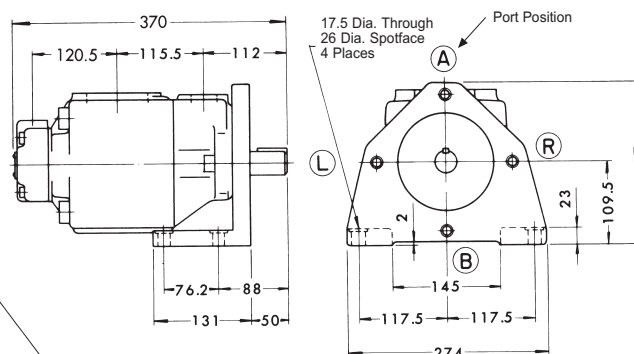
(S)-PV2R Series Double Vane Pumps Max. Pressure 21 MPa

PV2R13

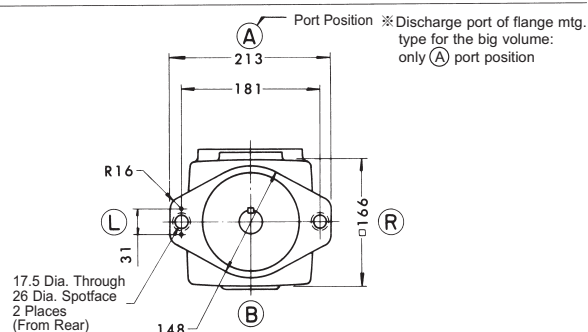
Flange Mtg.



Foot Mtg.

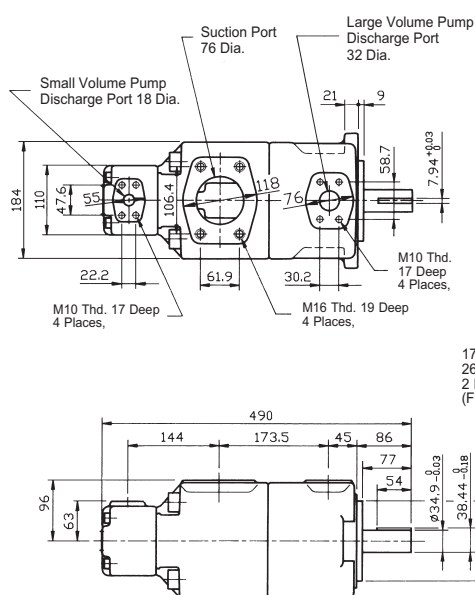
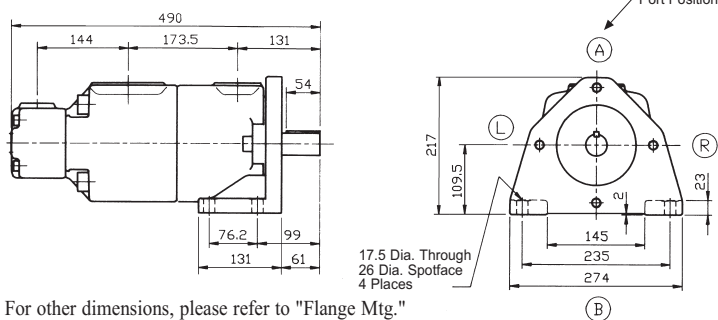


For other dimensions, please refer to "Flange Mtg."

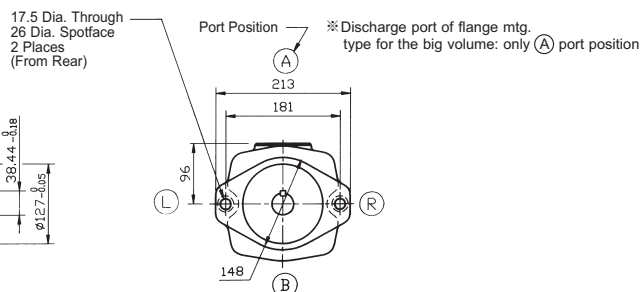


S-PV2R13

Flange Mtg.

**Foot Mtg.**

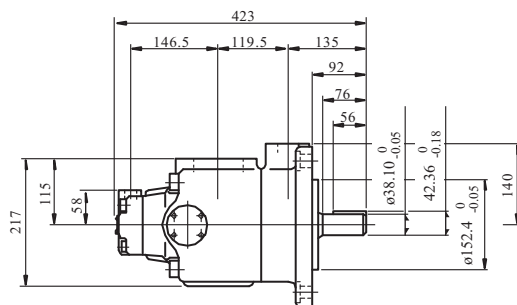
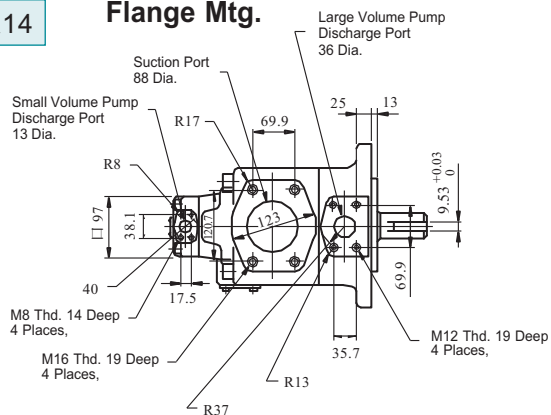
For other dimensions, please refer to "Flange Mtg."



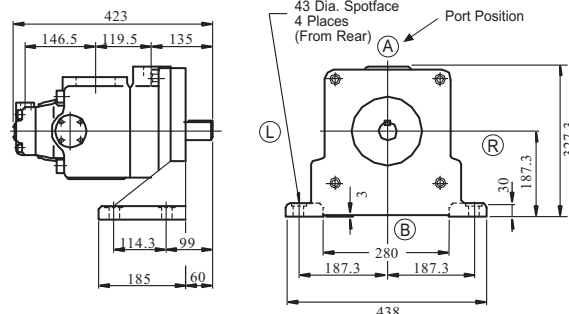
(S)-PV2R Series Double Vane Pumps Max. Pressure 21 MPa

PV2R14

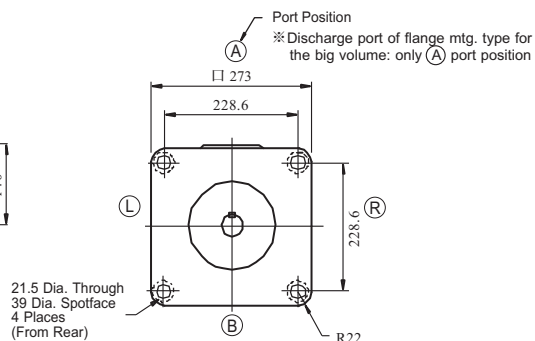
Flange Mtg.



Foot Mtg.

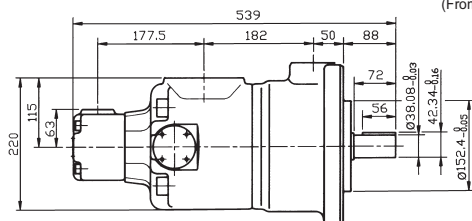
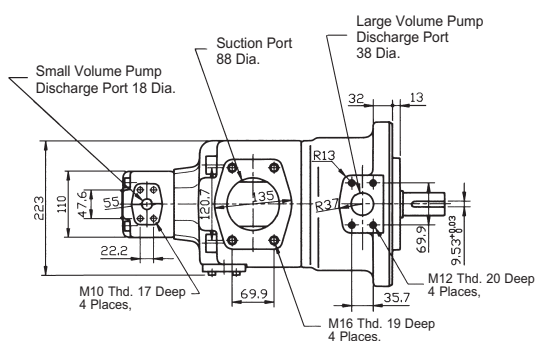


For other dimensions, please refer to "Flange Mtg."

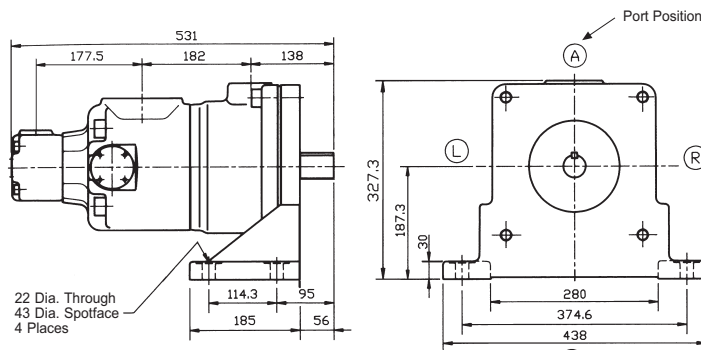


S-PV2R14

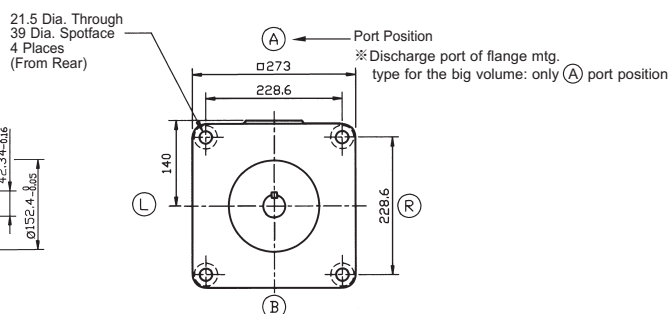
Flange Mtg.



Foot Mtg.



For other dimensions, please refer to "Flange Mtg."



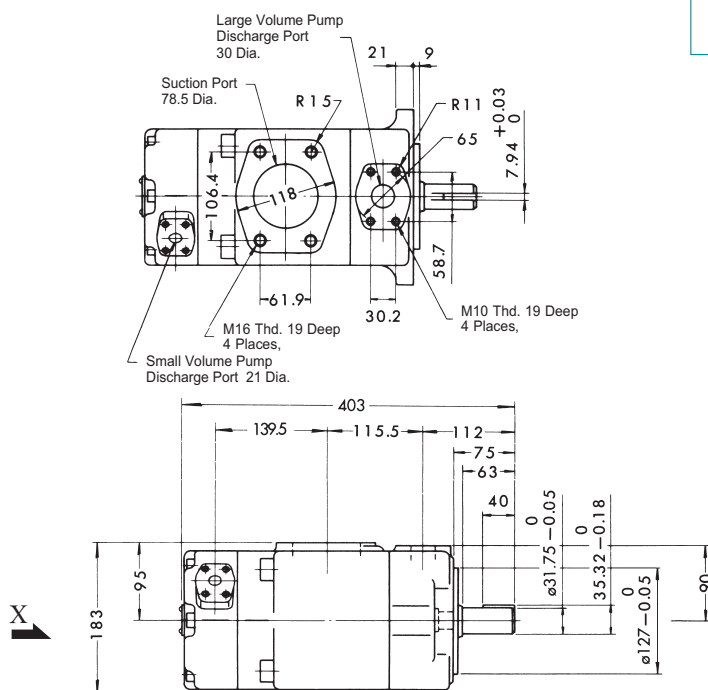
HYDRAULIC PUMPS



(S)-PV2R Series Double Vane Pumps Max. Pressure 21 MPa

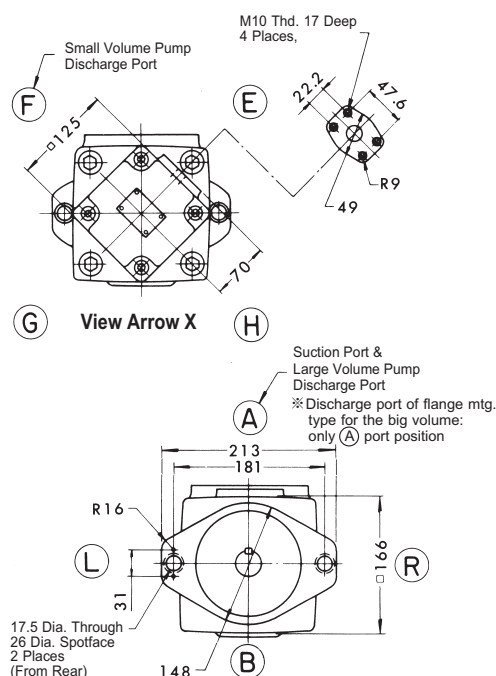
PV2R23

Flange Mtg.



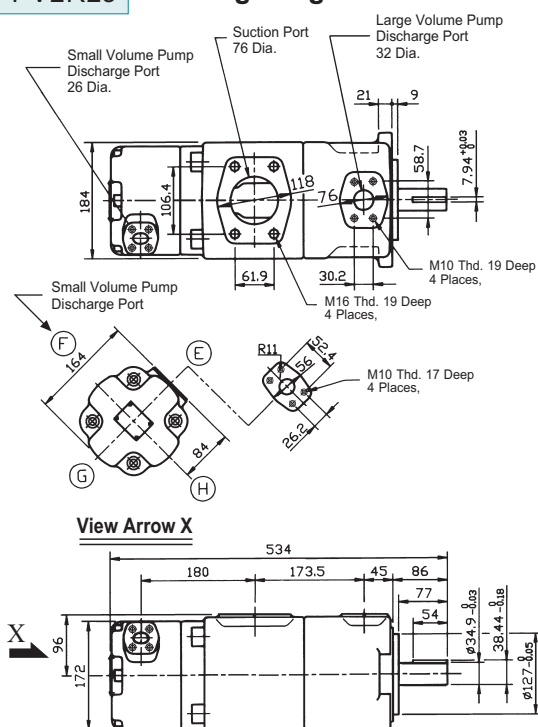
Foot Mtg.

The foot bracket is the same as S-PV2R23 series, therefore, for dimensions of foot bracket, please refer to S-PV2R23 series.

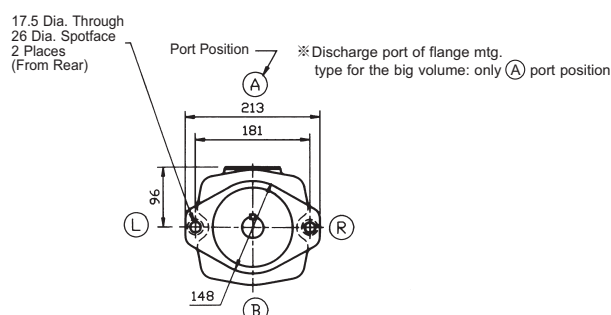
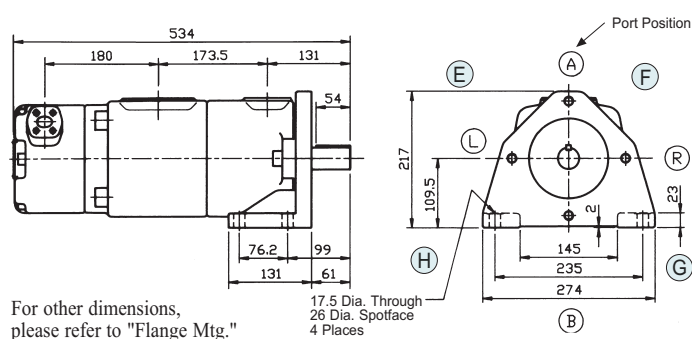


S-PV2R23

Flange Mtg.



Foot Mtg.

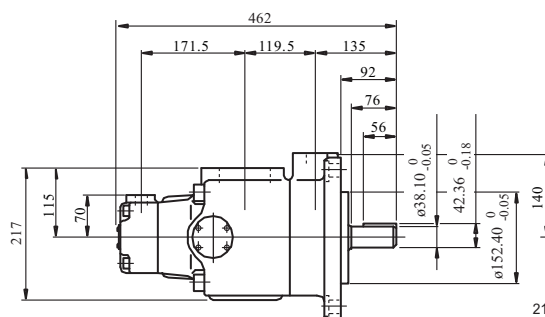
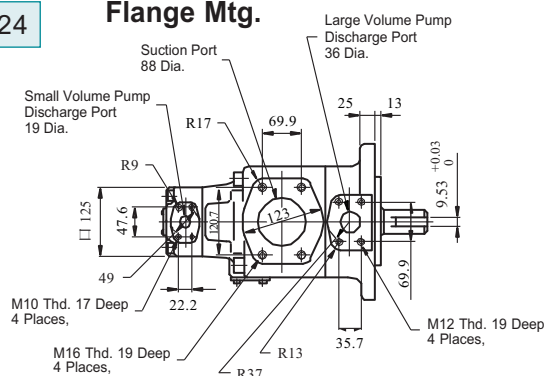
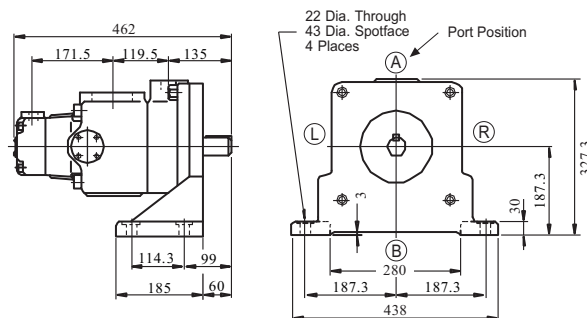


HYDRAULIC PUMPS

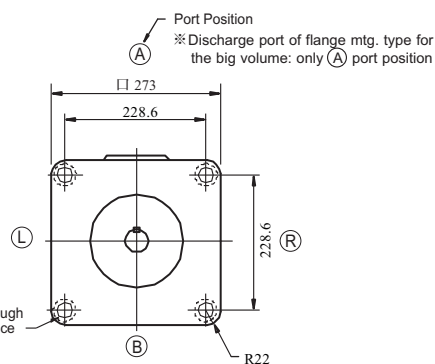
(S)-PV2R Series Double Vane Pumps Max. Pressure 21 MPa

PV2R24

Flange Mtg.

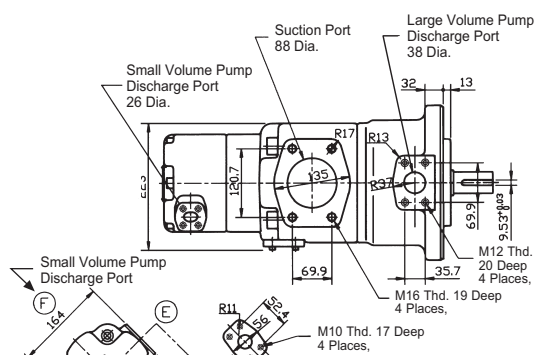
**Foot Mtg.**

For other dimensions, please refer to "Flange Mtg."

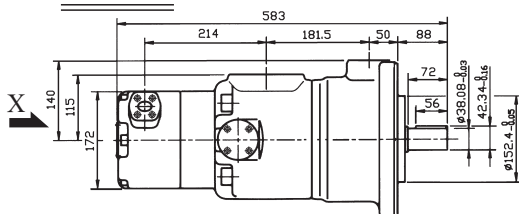
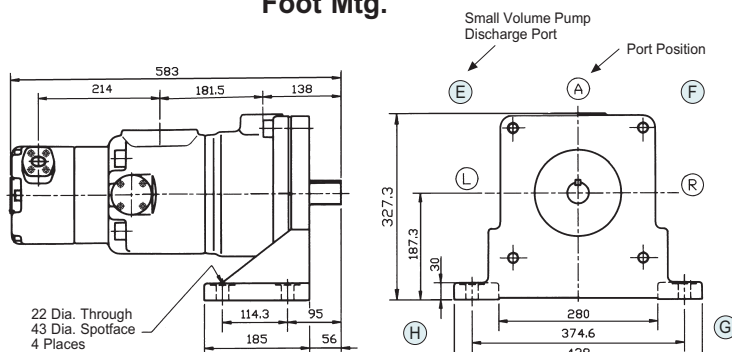


S-PV2R24

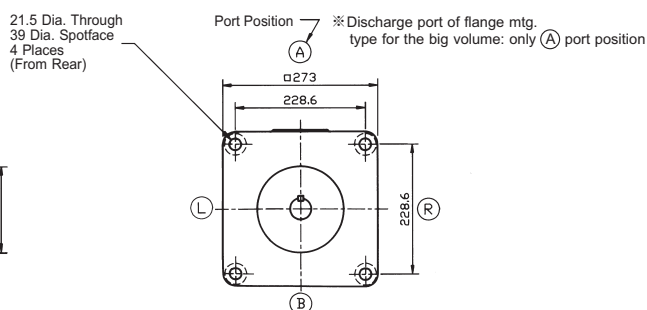
Flange Mtg.



View Arrow X

**Foot Mtg.**

For other dimensions, please refer to "Flange Mtg."



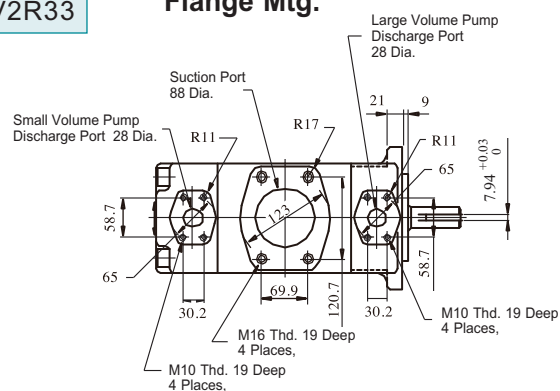
HYDRAULIC PUMPS



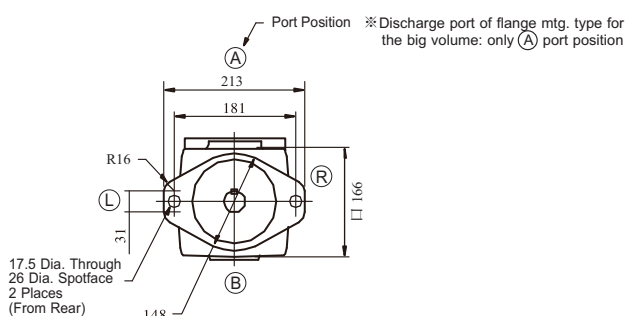
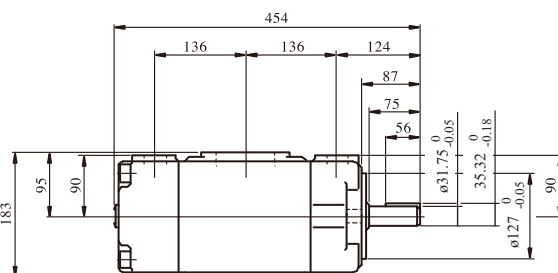
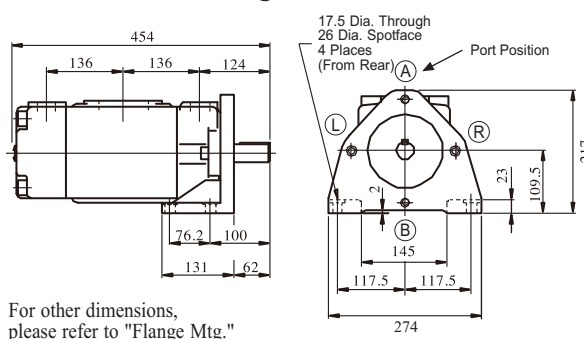
(S)-PV2R Series Double Vane Pumps Max. Pressure 21 MPa

PV2R33

Flange Mtg.

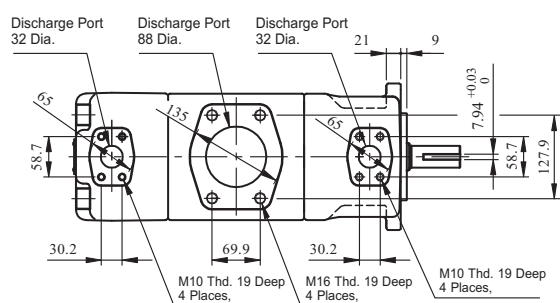


Foot Mtg.

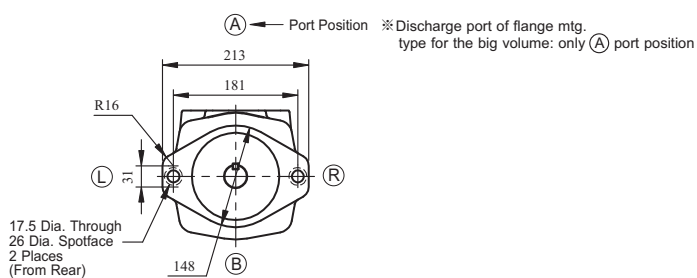
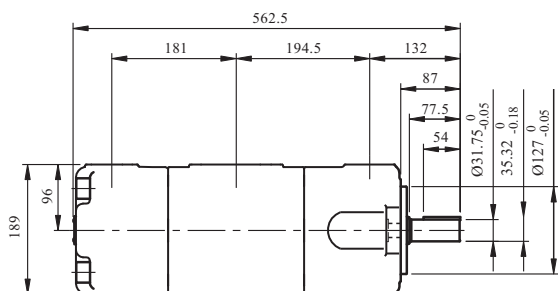
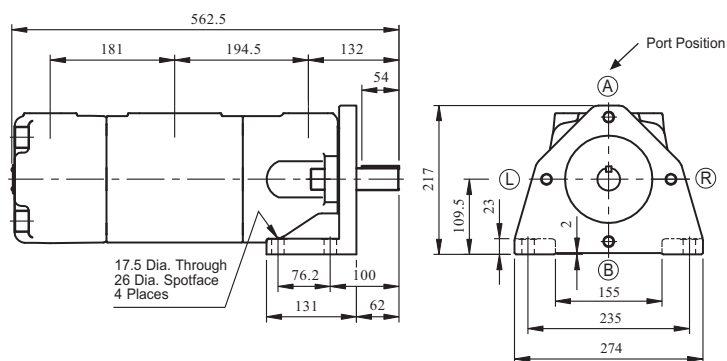


S-PV2R33

Flange Mtg.



Foot Mtg.



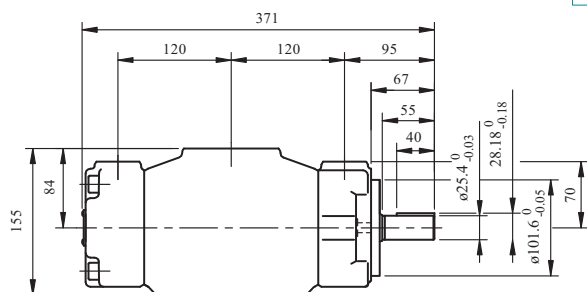
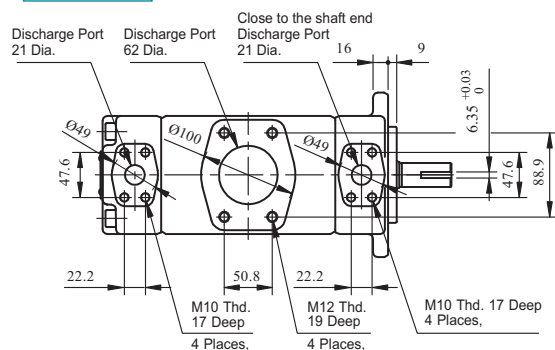
HYDRAULIC PUMPS



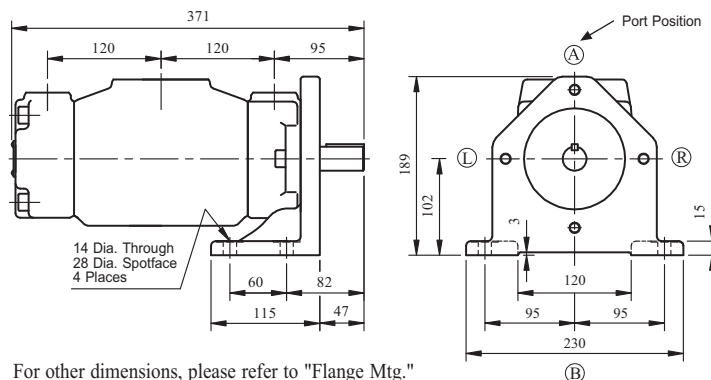
(S)-PV2R Series Double Vane Pumps Max. Pressure 21 MPa

PV2R22

Flange Mtg.



Foot Mtg.



For other dimensions, please refer to "Flange Mtg."

