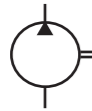


PV2R Series Single Vane Pumps

Maximum pressure 210 bar



Graphic Symbols



- A high-pressure, high-performance pump specially developed for low-noise operation.
- To accommodate a wide range of applications—such as in plastics machinery—it features a displacement range of 5.8 ~ 237 cm³/rev.
- Internal components are assembled into a single integrated unit using screws, facilitating both assembly and maintenance.

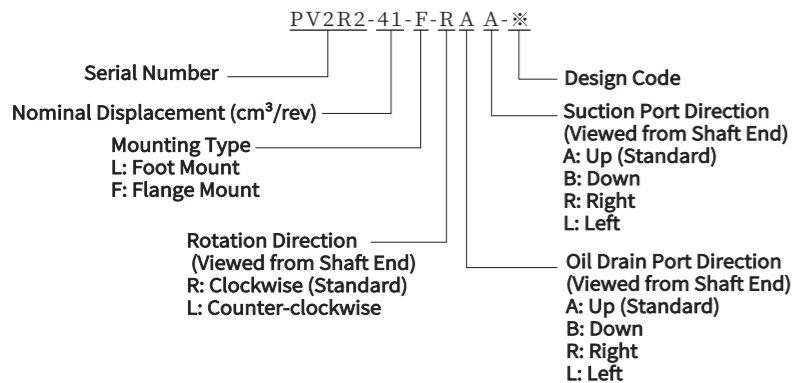
Specification

Model	Theory Displacement cm ³ /rev	Max Pressure kgf/cm ²	Speed Range rpm	Weight kg	
				Flange Installation	Base Installation
*4PV2R1-6-**-**-42	5.8	210	750~1800	9.0	11.2
*4PV2R1-8-**-**-42	8.0				
PV2R1-10-**-**-42	9.4				
PV2R1-12-**-**-42	12.2				
PV2R1-14-**-**-42	13.7				
PV2R1-17-**-**-40	16.6				
PV2R1-19-**-**-40	18.6				
PV2R1-23-**-**-40	22.7				
PV2R1-25-**-**-40	25.3				
PV2R1-28-**-**-40	28.1				
PV2R1-31-**-**-40	31.0	160	600~1800	19.0	23.3
PV2R2-26-**-**-40	26.6				
PV2R2-33-**-**-40	33.3				
PV2R2-41-**-**-40	41.3				
PV2R2-47-**-**-40	47.2				
PV2R2-53-**-**-40	52.5				
PV2R2-59-**-**-40	58.2				
PV2R2-65-**-**-40	64.7				
PV2R2-75-**-**-40	75				
PV2R3-52-**-**-31	52.2				
PV2R3-60-**-**-31	59.6				
PV2R3-66-**-**-31	66.3				
PV2R3-76-**-**-31	76.4				
PV2R3-85-**-**-31	85				
PV2R3-94-**-**-31	93.6				
PV2R3-108-**-**-31	108				
*2PV2R3-116-**-**-31	115.6				
PV2R3-125-**-**-31	125				
PV2R3-136-**-**-31	136	175	600~1800	68.5	93.5
PV2R4-136-**-**-30	136				
PV2R4-153-**-**-30	153				
PV2R4-184-**-**-30	184				
PV2R4-200-**-**-30	201				
*3PV2R4-237-**-**-30	237				

- It is recommended to use an anti-wear, petroleum-based hydraulic fluid.
- Refer to page 17 for pressure-displacement and input power characteristics.

- Note) *1. When starting at low speed, the maximum viscosity is limited; please refer to page 6.
- *2. When utilizing a nominal displacement of 116 cm³/rev and operating at speeds exceeding 1700 rpm, the minimum suction port pressure is limited to 0 kgf/cm².
- *3. When operating at a nominal displacement of 237 cm³/rev and a rotational speed exceeding 1700 rpm, the minimum suction port pressure is limited to -100 mmHg.
- *4. When the operating pressure exceeds 160 kgf/cm², the minimum rotational speed is limited to 1450 rpm or higher.

Significance of the Model Designation



Pipe Flange

Serial Number	Oil Port Name	Pipe Flange Assembly Model
PV2R1	Suction Port	F5-08-**-10T
	Oil Drain Port	F5-04-**-10T
PV2R2	Suction Port	F5-10-**-10T
	Oil Drain Port	F5-06-**-10T
PV2R3	Suction Port	F5-16-**-10T
	Oil Drain Port	F5-10-**-10T
PV2R4	Suction Port	F5-24-**-10T
	Oil Drain Port	F5-12-**-10T

For detailed models and dimension drawings, please refer to Page 36. If selecting a pipe flange assembly, please place your order based on the detailed model number.

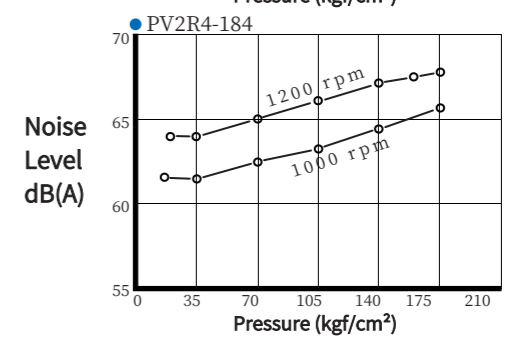
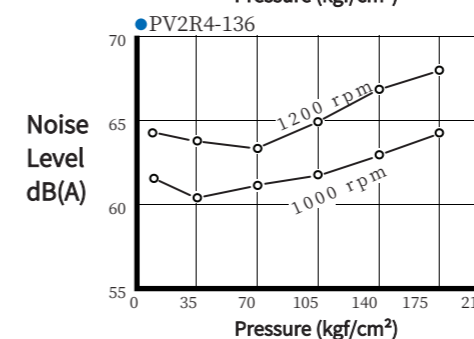
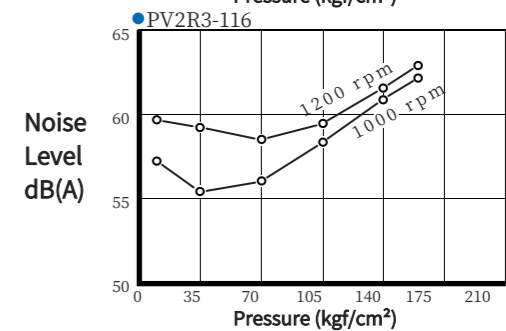
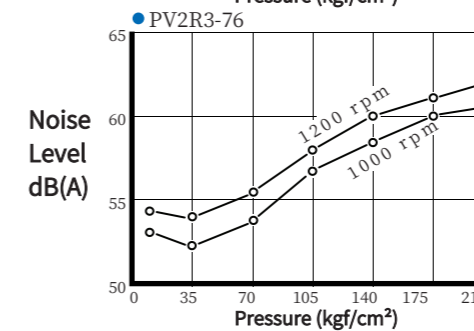
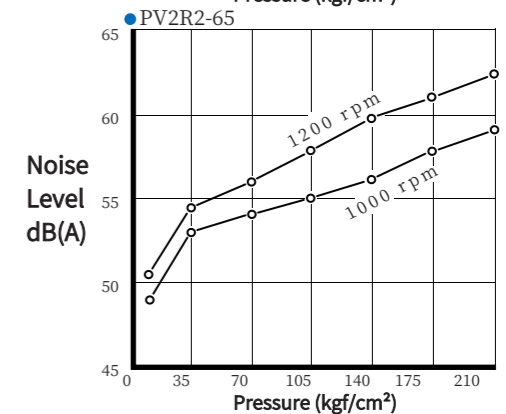
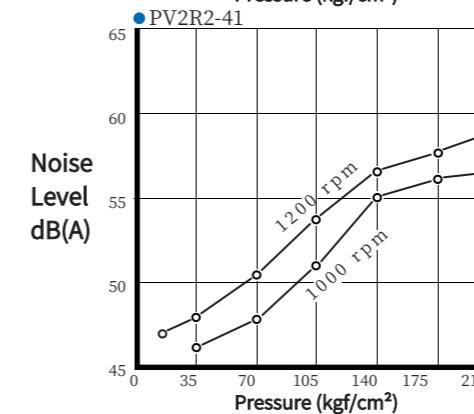
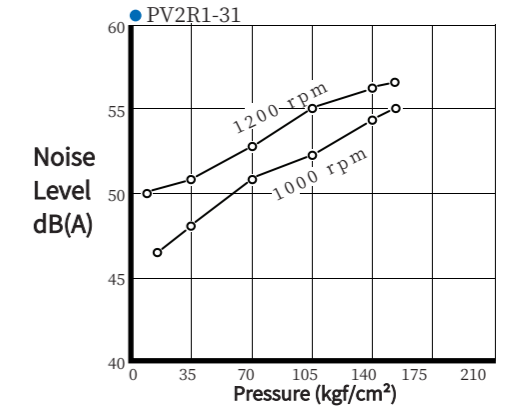
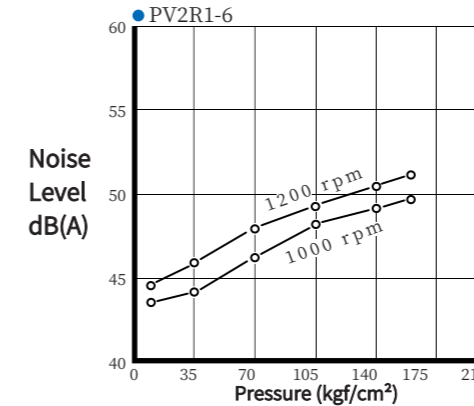
* The flange-mount type is available only with A-positioning.

PV2R Series Single Vane Pumps

Maximum pressure 210 bar

Noise Level (Example) Measurement Conditions

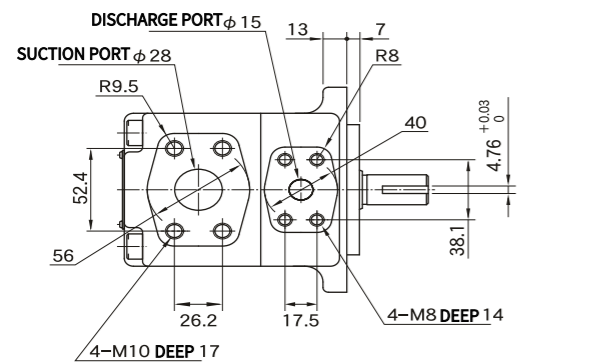
Oil Viscosity: 20 cSt
Measurement Location: 1 m behind the hydraulic pump
Background Noise: 40 dB (A)



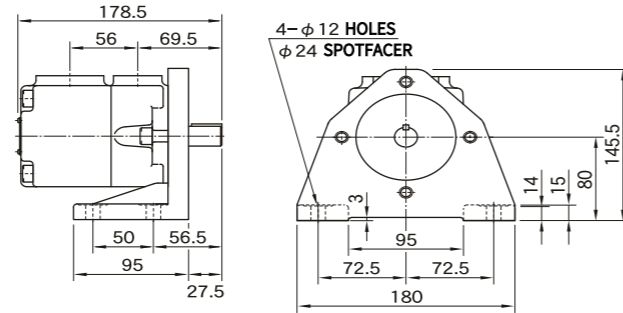
PV2R Series Single Vane Pumps

Maximum pressure 210 bar

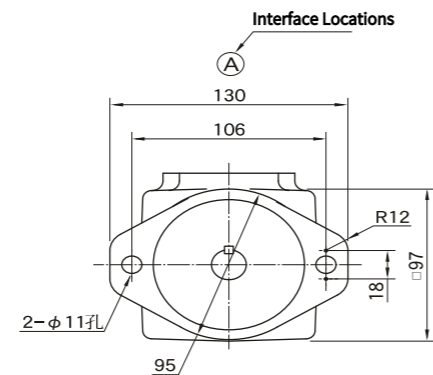
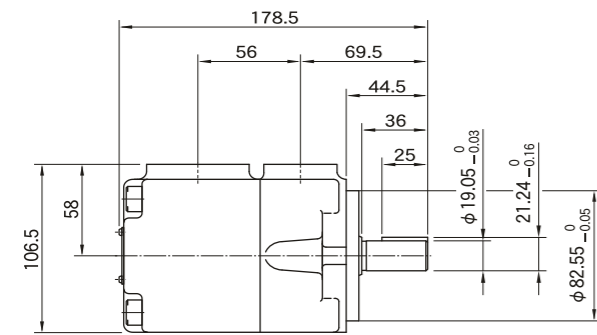
PV2R1-※-F (Flange-Mount Type)



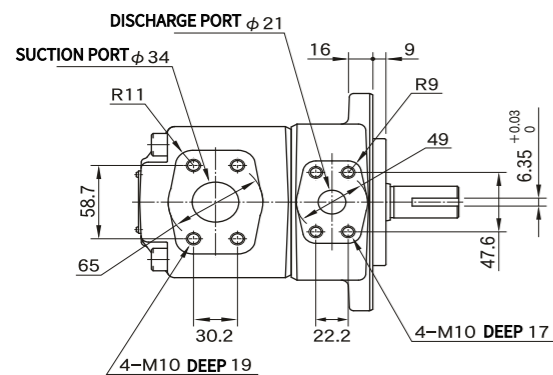
PV2R1-※-L (Base-Mount Type)



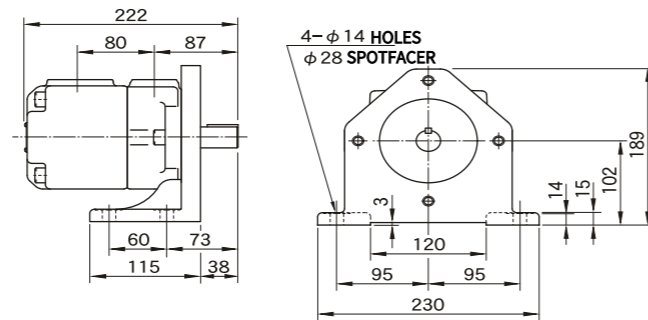
For other dimensions, please refer to the flange-mount type.



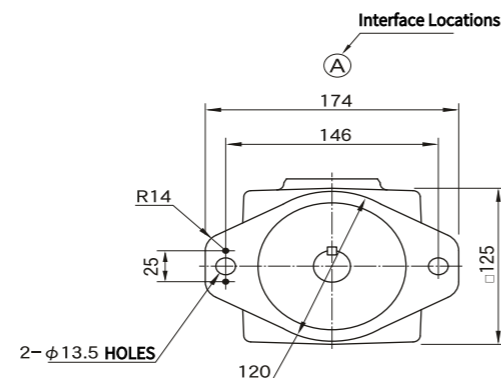
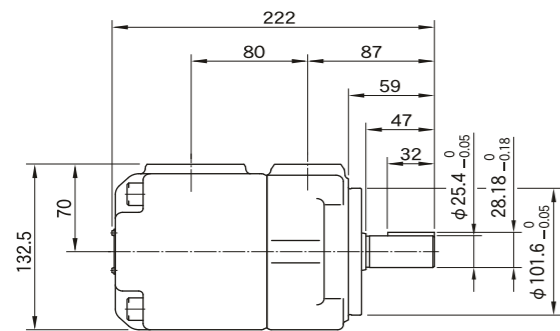
PV2R2-※-F (Flange-Mount Type)



PV2R2-※-L (Base-Mount Type)



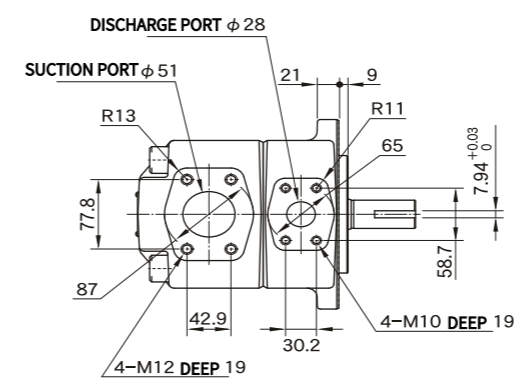
For other dimensions, please refer to the flange-mount type.



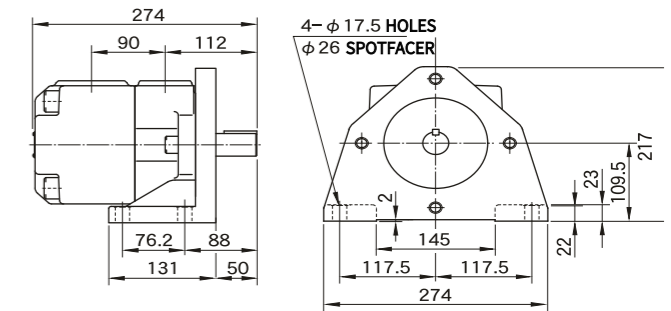
PV2R Series Single Vane Pumps

Maximum pressure 210 bar

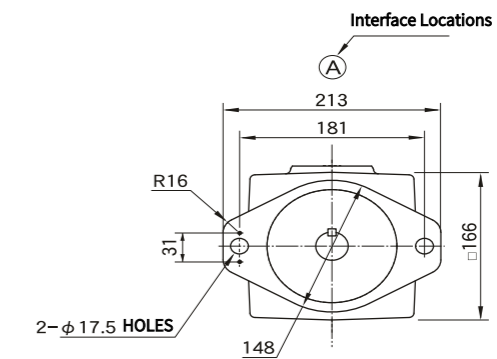
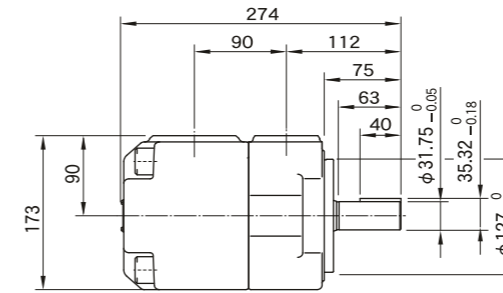
PV2R3-※-F (Flange-Mount Type)



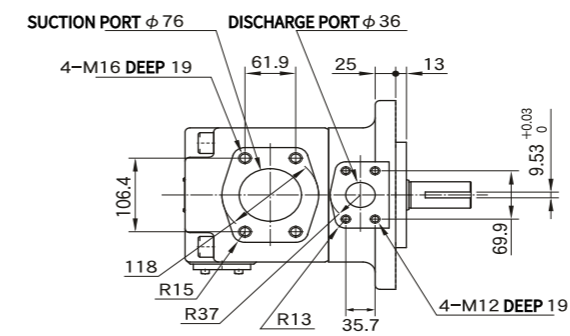
PV2R3-※-L (Base-Mount Type)



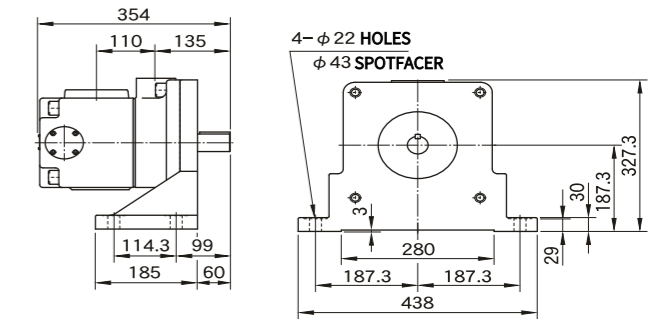
For other dimensions, please refer to the flange-mount type.



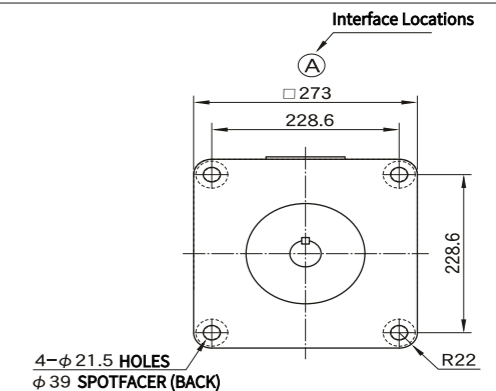
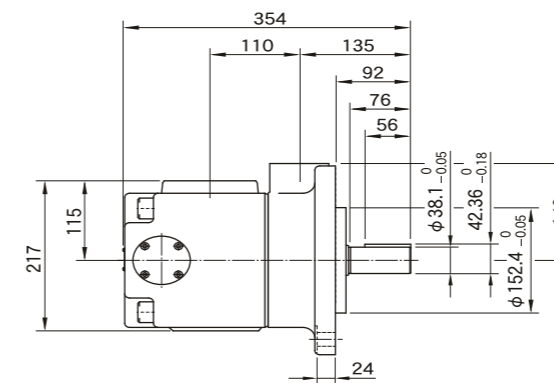
PV2R4-※-F (Flange-Mount Type)



PV2R4-※-L (Base-Mount Type)



For other dimensions, please refer to the flange-mount type.

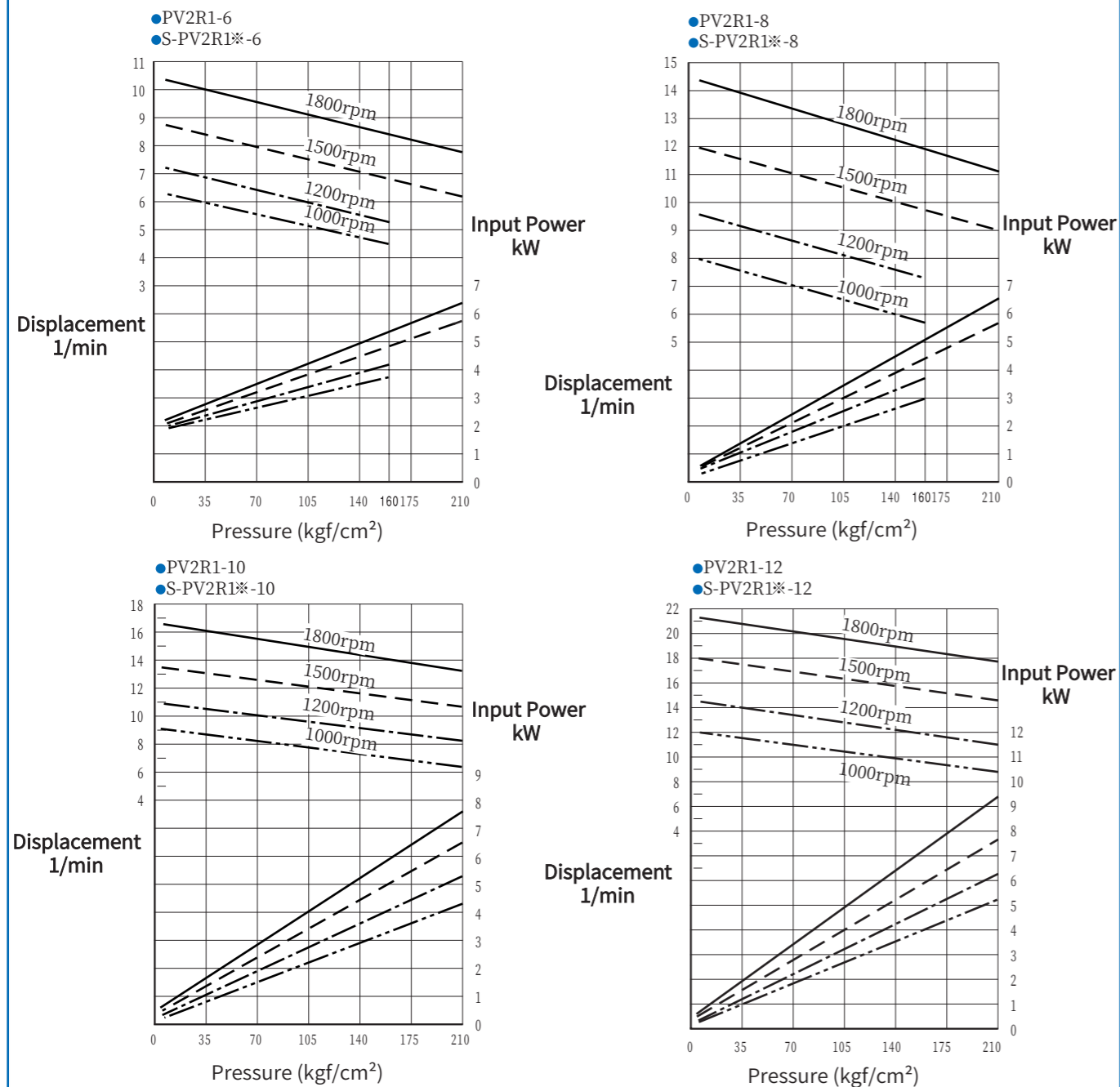


PV2R Series Single Vane Pumps

Maximum pressure 210 bar

Pressure-Displacement and Input Power Characteristics

Hydraulic fluid viscosity: 20 cSt

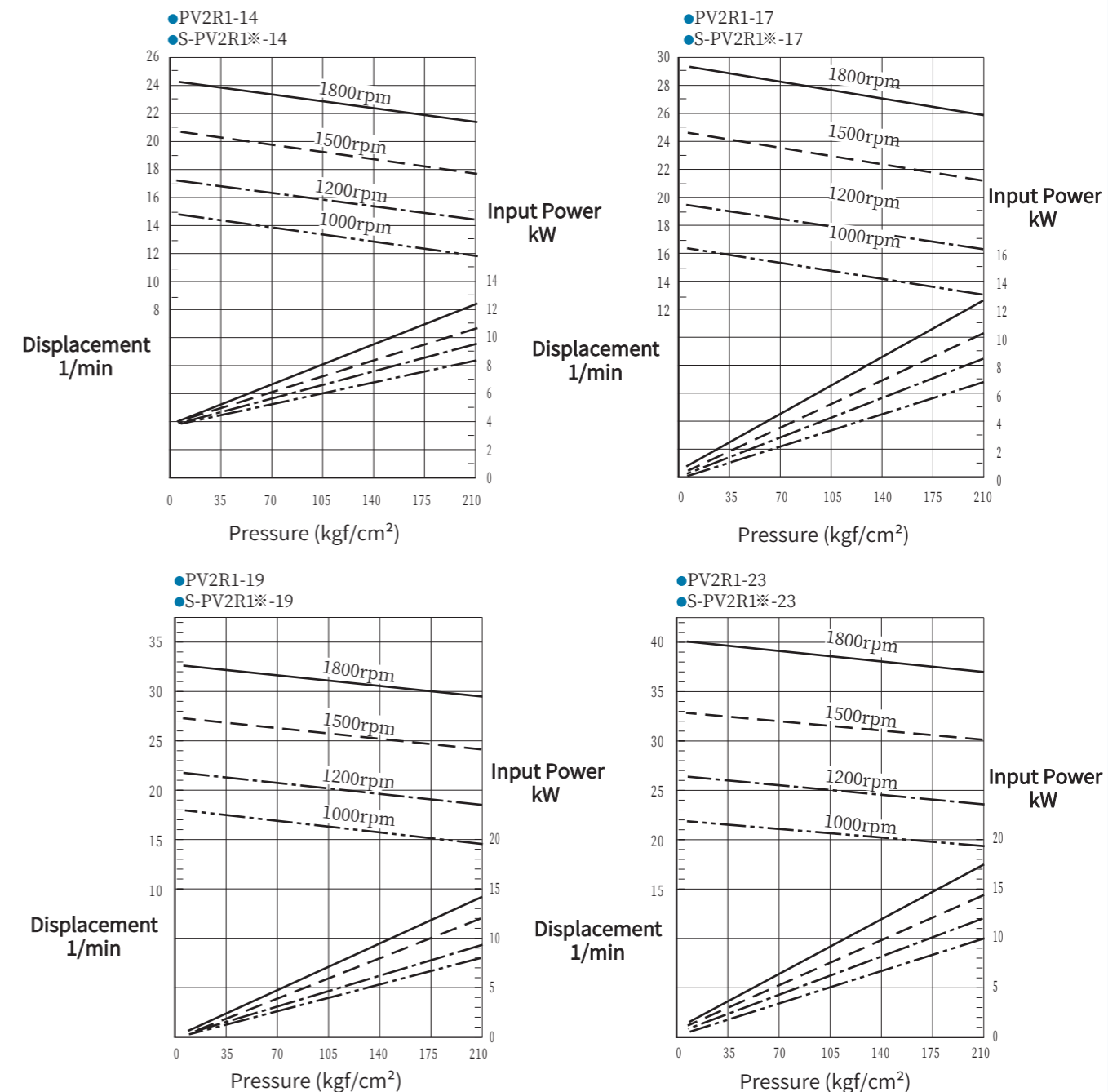


PV2R Series Single Vane Pumps

Maximum pressure 210 bar

Pressure-Displacement and Input Power Characteristics

Hydraulic fluid viscosity: 20 cSt

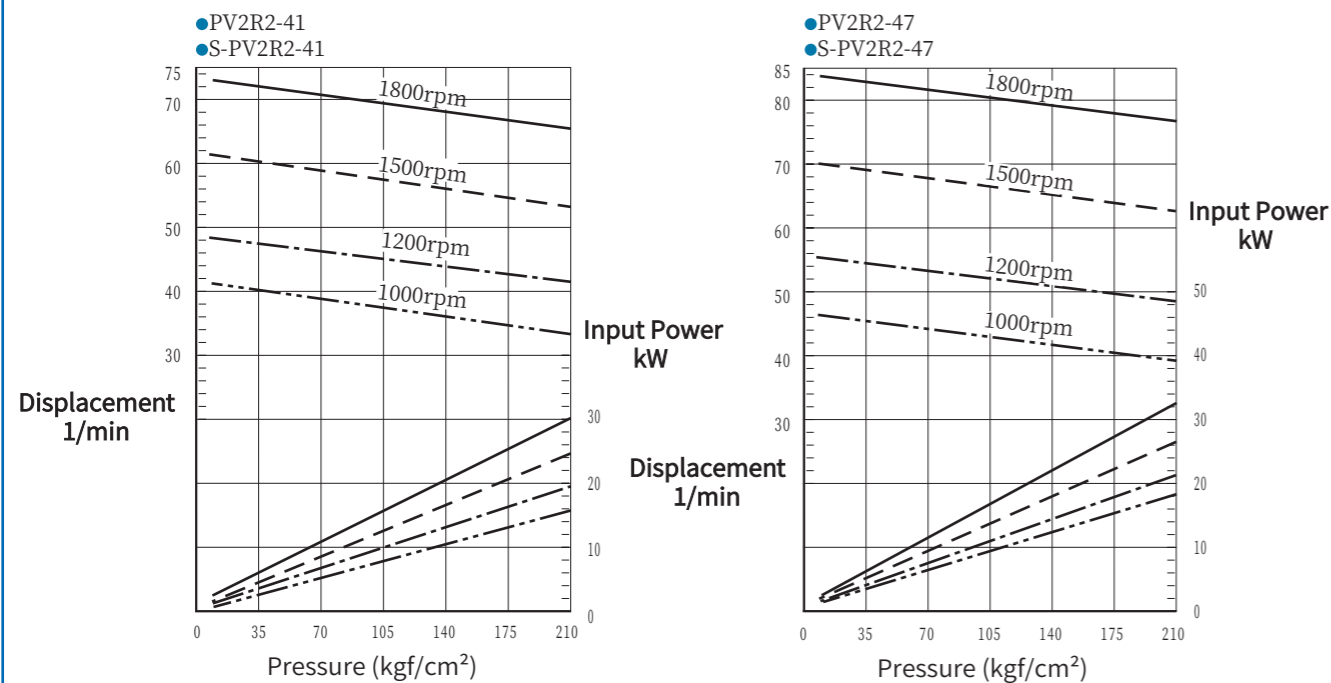
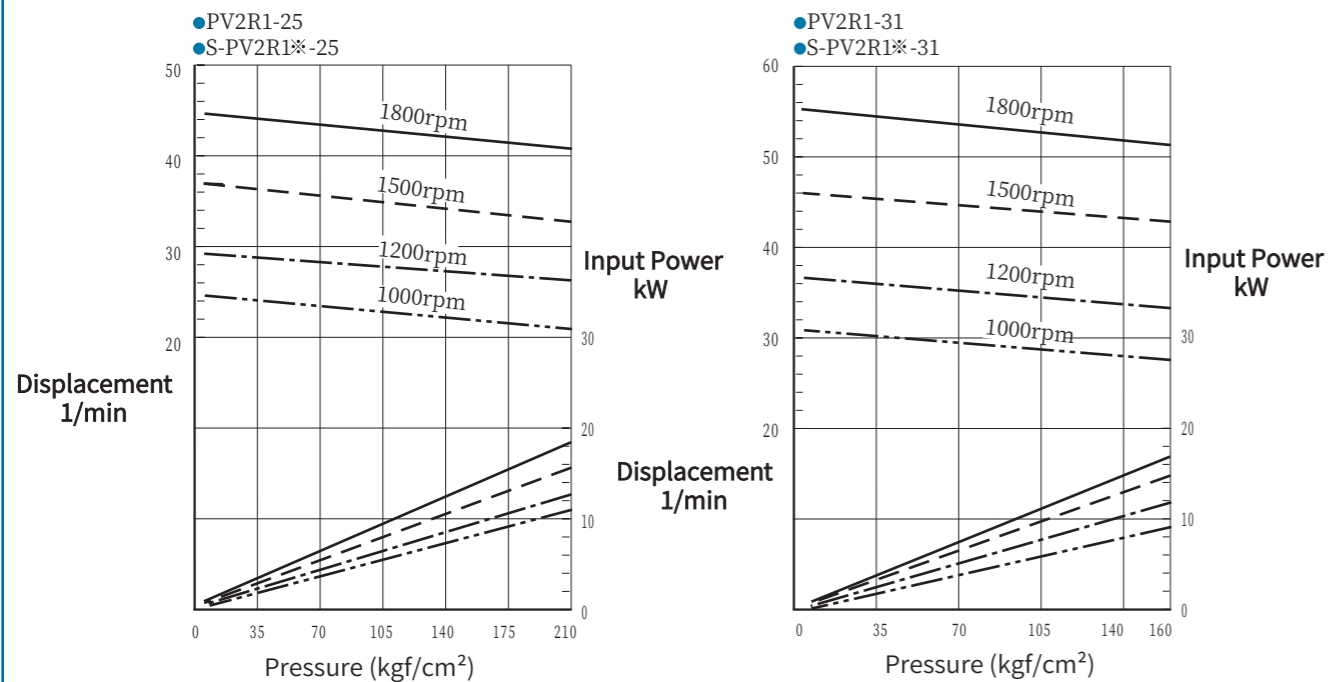


PV2R Series Single Vane Pumps

Maximum pressure 210 bar

Pressure-Displacement and Input Power Characteristics

Hydraulic fluid viscosity: 20 cSt

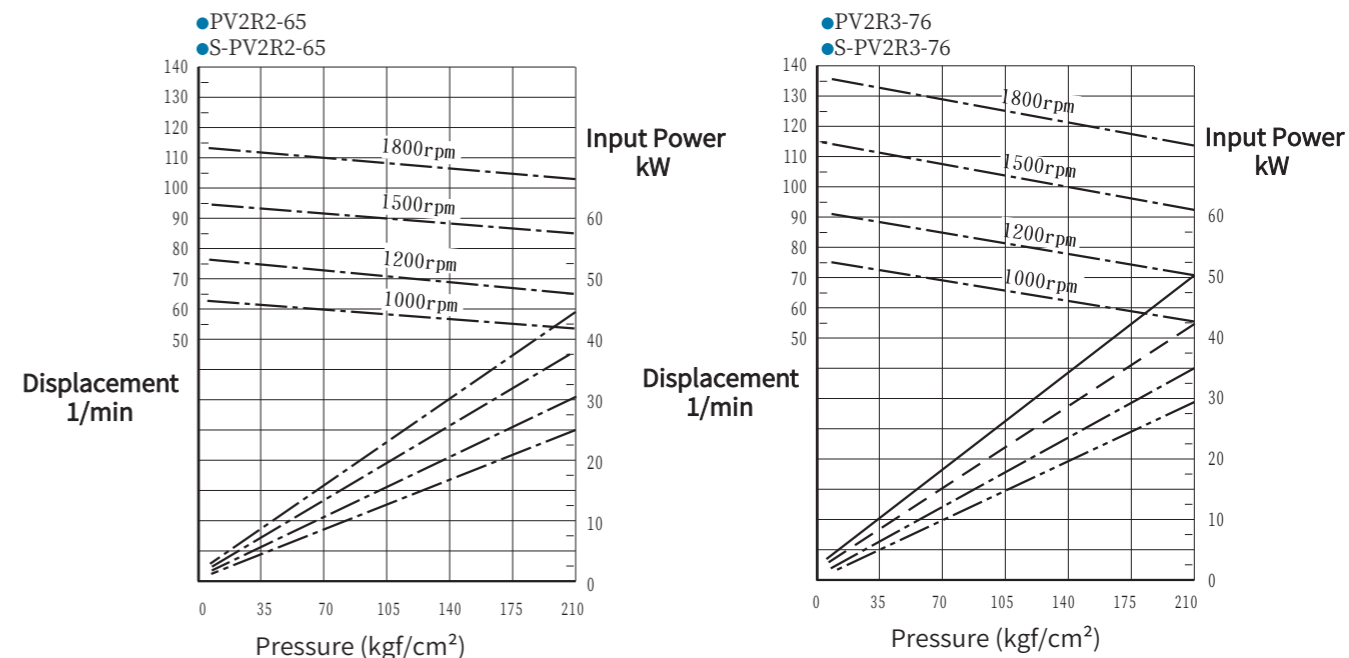
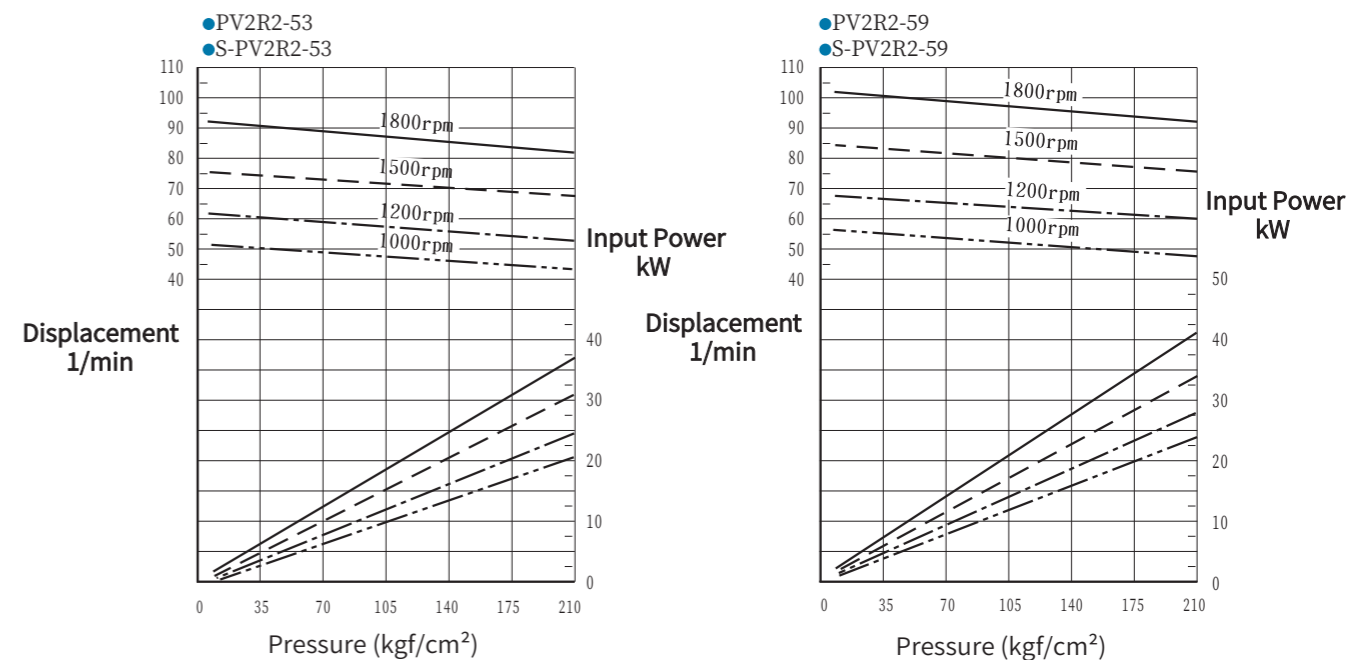


PV2R Series Single Vane Pumps

Maximum pressure 210 bar

Pressure-Displacement and Input Power Characteristics

Hydraulic fluid viscosity: 20 cSt

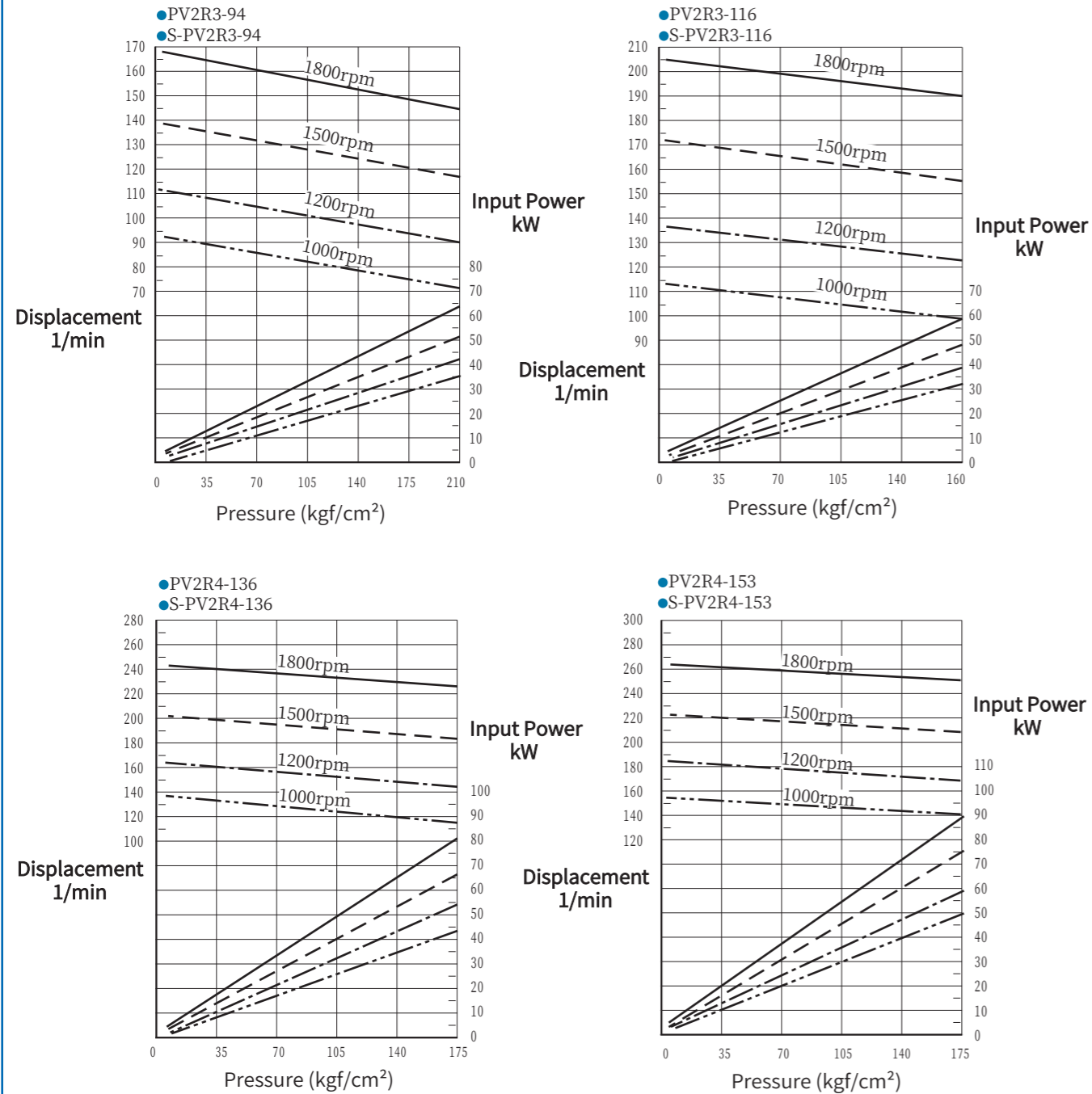


PV2R Series Single Vane Pumps

Maximum pressure 210 bar

Pressure-Displacement and Input Power Characteristics

Hydraulic fluid viscosity: 20 cSt

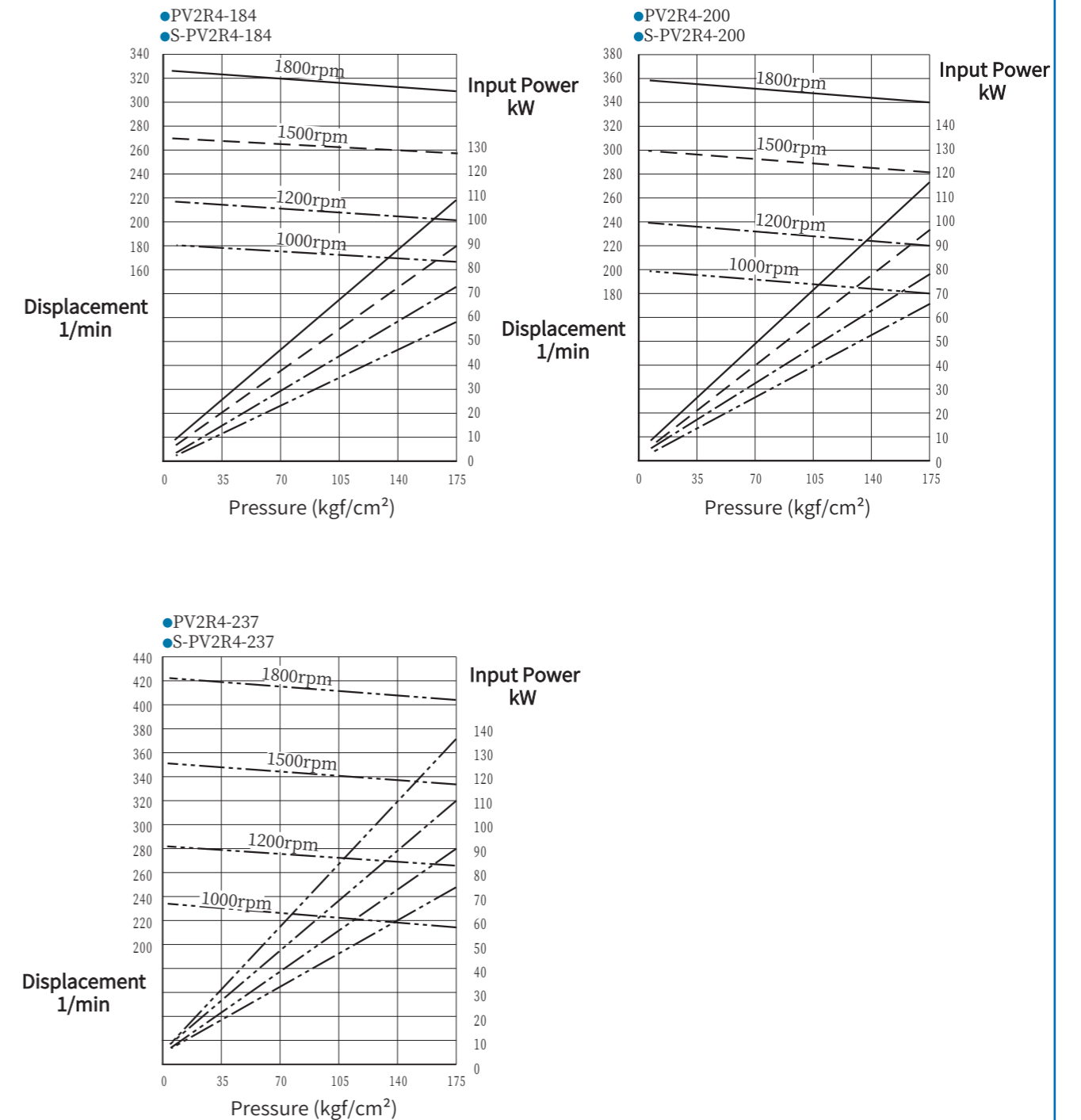


PV2R Series Single Vane Pumps

Maximum pressure 210 bar

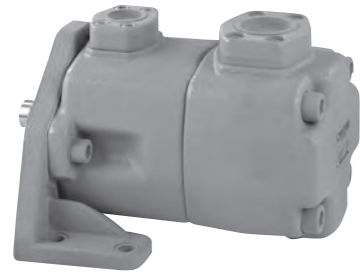
Pressure-Displacement and Input Power Characteristics

Hydraulic fluid viscosity: 20 cSt



S-PV2R Series Single Vane Pumps

Maximum pressure 210 bar



- A high-pressure, high-performance pump specially developed for low-noise operation.
- To accommodate a wide range of applications—such as in plastics machinery—it features a displacement range of 41.3 ~ 237 cm³/rev.
- Internal components are assembled into a single integrated unit using screws, facilitating both assembly and maintenance.
- By reducing the amplitude of pressure pulsations, the overall noise level of the machinery can be significantly lowered.

Specification

Model	Theory Displacement cm ³ /rev	Max Pressure kgf/cm ²	Speed Range rpm	Weight kg					
				Flange Installation	Base Installation				
S-PV2R2-26-**-**-41	26.6	210	600~1800	31.0	39.0				
S-PV2R2-33-**-**-41	33.3								
S-PV2R2-41-**-**-41 ★1	41.3								
S-PV2R2-47-**-**-41	47.2								
S-PV2R2-53-**-**-41	52.5								
S-PV2R2-59-**-**-41	58.2								
S-PV2R2-65-**-**-41	64.7								
S-PV2R2-75-**-**-41	75								
S-PV2R3-52-**-**-31	52.2					210	600~1800	55.5	63.5
S-PV2R3-60-**-**-31	59.6								
S-PV2R3-66-**-**-31	66.3								
S-PV2R3-76-**-**-31	76.4								
S-PV2R3-85-**-**-31	85								
S-PV2R3-94-**-**-31	93.6								
S-PV2R3-108-**-**-31	108								
S-PV2R3-116-**-**-31	115.6								
S-PV2R3-125-**-**-31 ★2	125								
S-PV2R3-136-**-**-31	136								
S-PV2R4-136-**-**-30	136	175	600~1800	70	95				
S-PV2R4-153-**-**-30	153								
S-PV2R4-184-**-**-30	184								
S-PV2R4-200-**-**-30	201								
S-PV2R4-237-**-**-30 ★3	237								

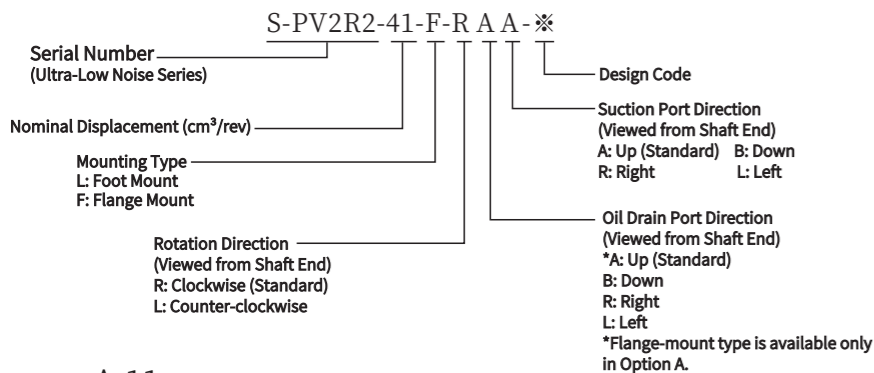
Graphic Symbols



- Refer to page 17 for pressure-displacement and input power characteristics.
- For hydraulic oil, the use of an anti-wear, petroleum-based hydraulic fluid is recommended. (See Page 7.)
- For a comparison of the noise levels between the S-PV2R2-65 and the PV2R2-65, please refer to Page 25.

- ★ 1. When starting at low speeds, the maximum viscosity is limited; please refer to page 6.
- ★ 2. When utilizing a nominal displacement of 116 cm³/rev and operating at speeds exceeding 1700 rpm, the minimum suction port pressure is limited to 0 kgf/cm².
- ★ 3. When operating at a nominal displacement of 237 cm³/rev and a rotational speed exceeding 1700 rpm, the minimum suction port pressure is limited to -100 mmHg.

Significance of the Model Designation



Pipe Flange

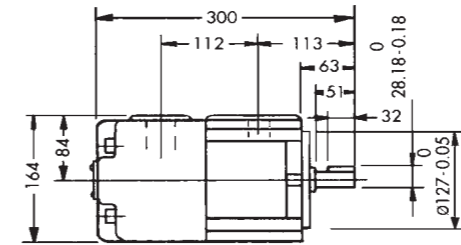
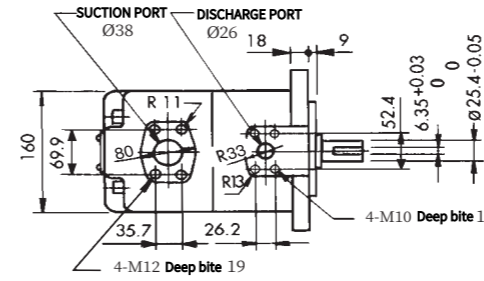
Serial Number	Oil Port Name	Pipe Flange Assembly Model
S-PV2R2	Suction Port	F5-12-**-10T
	Oil Drain Port	F5-08-**-10T
S-PV2R3	Suction Port	F5-16-**-10T
	Oil Drain Port	F5-10-**-10T
S-PV2R4	Suction Port	F5-24-**-10T
	Oil Drain Port	F5-12-**-10T

- For detailed models and dimension drawings, please refer to page 36.
- If selecting a pipe flange assembly, please order by the detailed model number.

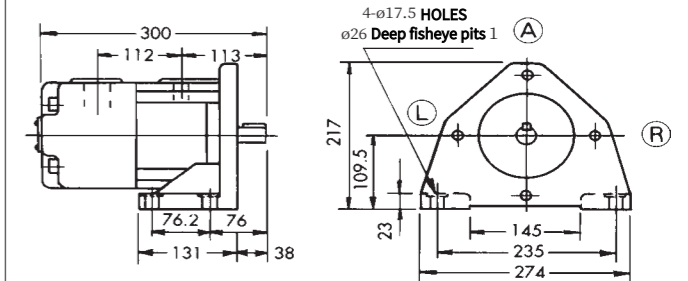
S-PV2R Series Single Vane Pumps

Maximum pressure 210 bar

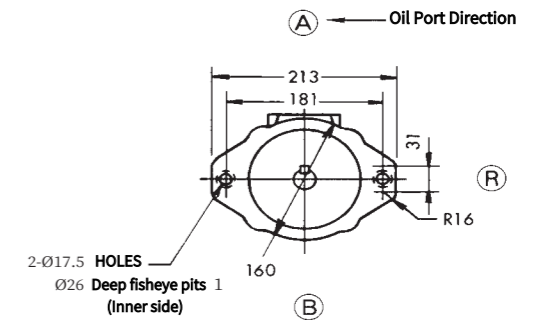
S-PV2R2-**-**-F (Flange-Mount Type)



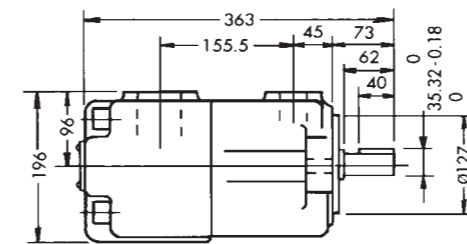
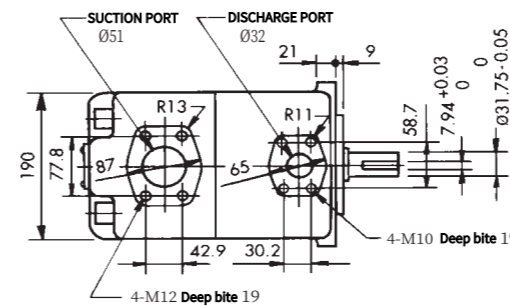
S-PV2R2-**-**-L (Base-Mount Type)



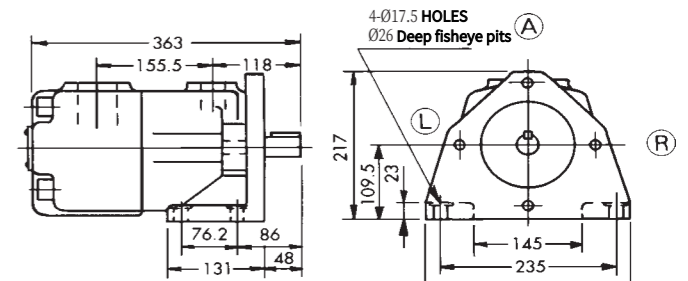
For other dimensions, please refer to the flange-mount type.



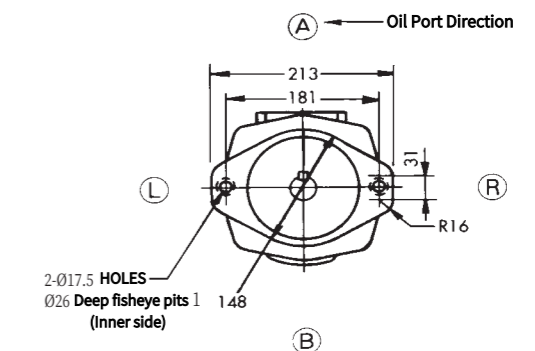
S-PV2R3-**-**-F (Flange-Mount Type)



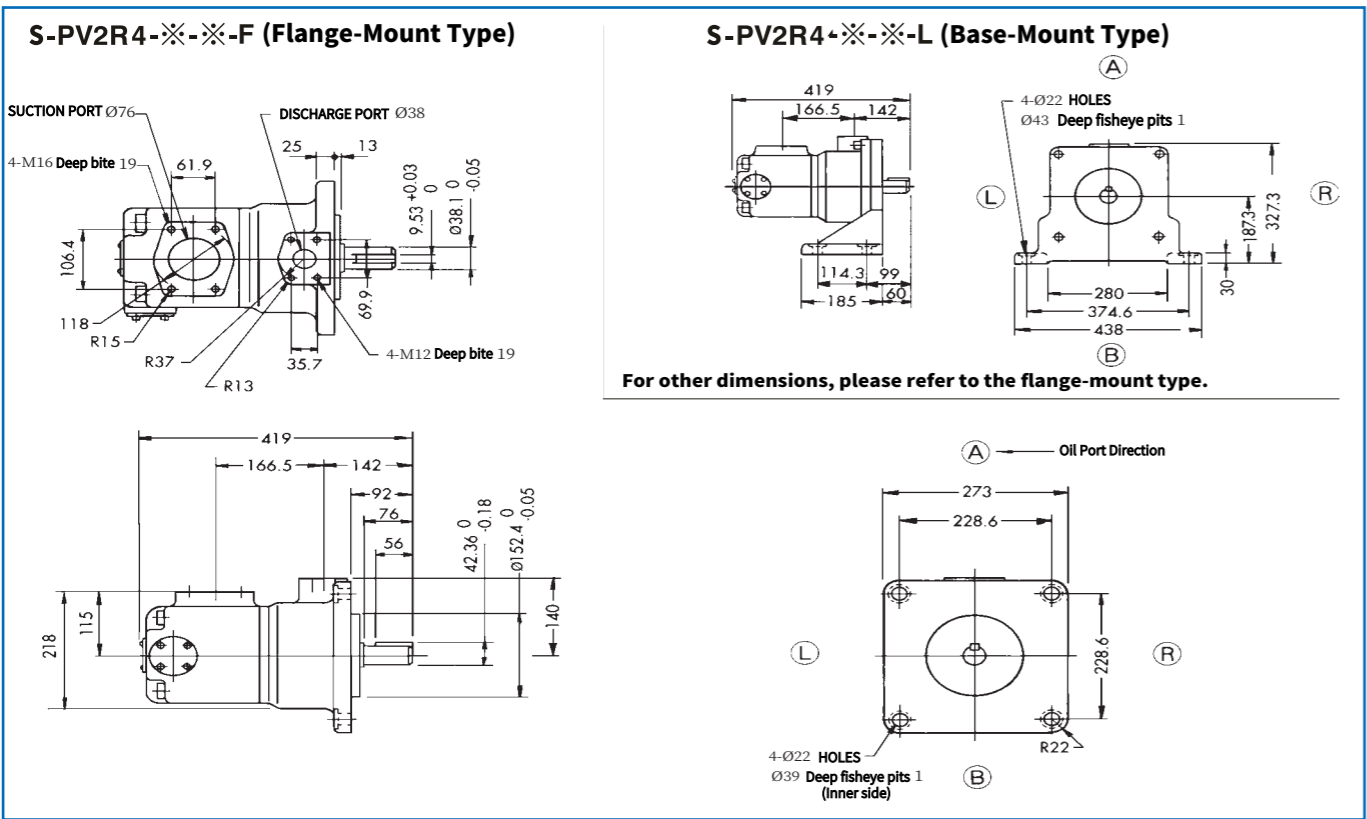
S-PV2R3-**-**-L (Base-Mount Type)



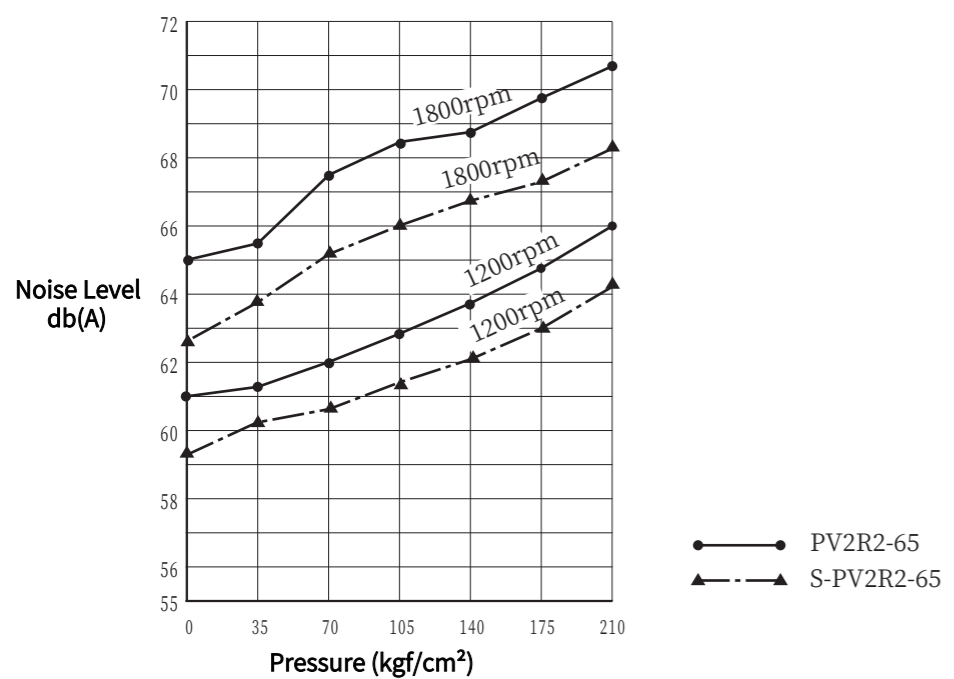
For other dimensions, please refer to the flange-mount type.



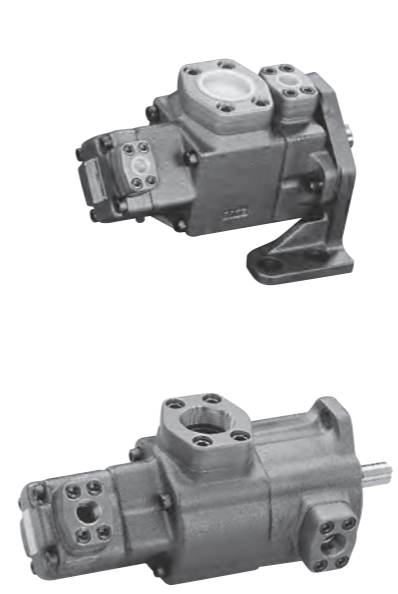
S-PV2R Series Single Vane Pumps Maximum pressure 210 bar



Noise Level Comparison: S-PV2R2-65 vs. PV2R2-65
 Hydraulic oil viscosity: 32 cSt
 Test Location: 1m behind the hydraulic pump.



S-PV2R Series Double Vane Pumps Maximum pressure 210 bar

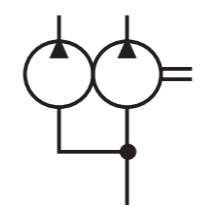


- This tandem pump consists of two independent, low-noise, single-stage vane pumps assembled in series within a single pump housing, sharing a common drive shaft.
- The oil discharge ports can supply separate circuits, allowing for the configuration of an optimal discharge volume tailored to each specific circuit, thereby creating a highly efficient hydraulic system.

Significance of the Model Designation

Serial Number	Small Displacement Nominal Displacement cm³/rev	Large Displacement Nominal Displacement cm³/rev	Mounting Type	Direction of Rotation (Viewed from Shaft End)	Discharge Port Orientation of Small-Displacement (Viewed from the Shaft End)	Discharge Port Orientation of Large-Displacement (Viewed from the Shaft End)	Suction Port Direction (Viewed from Shaft End)	Design Code
PV2R12	6, 8, 10, 12, 14	*26, *33, 41, 47	L : Tripod Installation	R : Clockwise (Standard)	E: Top Left (Standard) F: Top Right G: Bottom Right H: Bottom Left	A: Up (Standard)	A: Up (Standard)	42
S-PV2R12	17, 19, 23, 25, 28, 31	53, 59, 65, 75						40
PV2R13	6, 8, 10, 12, 14	*52, *60, *66, 76, 85, 94						42
S-PV2R13	17, 19, 23, 25, 28, 31	108, 116, 125						41
S-PV2R14	6, 8, 10, 12, 14	136, 153, 184, 200, 237	F : Flange Installation	L : Counter-clockwise	R: Right L: Left	B: Down	B: Down	31
PV2R23	*26, *33, 41, 47, 53, 59, 65, 75	*52, *60, *66, 76, 85, 94, 108, 116, 125, 136						41
S-PV2R24		136, 153, 184, 200, 237						30
S-PV2R34	*52, *60, *66, 76, 85, 94, 108, 116, 125, 136							30

Graphic Symbols



* Nominal displacements 26, 33, 52, 60, and 66 are applicable only to double vane pumps.
 * Nominal displacements 6, 8, 10, 12, and 14 utilize a forced-ejection vane pump design.

Pipe Flange

Oil Pump Model	Pipe Flange Assembly Model		
	Suction Port	High-Capacity Oil Drain Port	Low-Displacement Oil Outlet
PV2R12	F5-16 - ** - 10T	F5-06 - ** - 10T	F5-04 - ** - 10T
S-PV2R12	F5-20 - ** - 10T	F5-08 - ** - 10T	F5-06 - ** - 10T
PV2R13	F5-24 - ** - 10T	F5-10 - ** - 10T	F5-04 - ** - 10T
S-PV2R13	F5-24 - ** - 10T	F5-10 - ** - 10T	F5-06 - ** - 10T
S-PV2R14	F5-28 - ** - 10T	F5-12 - ** - 10T	F5-06 - ** - 10T
PV2R23	F5-24 - ** - 10T	F5-10 - ** - 10T	F5-06 - ** - 10T
S-PV2R23	F5-24 - ** - 10T	F5-10 - ** - 10T	F5-08 - ** - 10T
S-PV2R24	F5-28 - ** - 10T	F5-12 - ** - 10T	F5-08 - ** - 10T
S-PV2R34	F5-32 - ** - 10T	F5-12 - ** - 10T	F5-10 - ** - 10T

- For the significance of pipe flange model designations and their dimensions, please refer to Page 36.
- If selecting a pipe flange assembly, please order by the detailed model number.

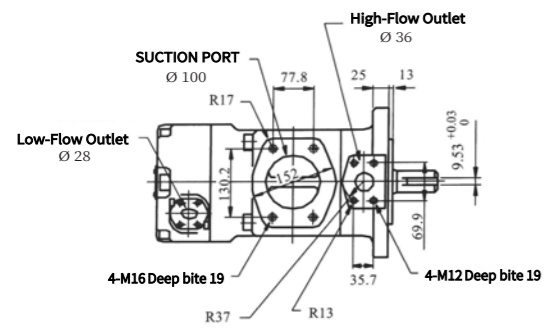
Weight

Oil Pump Model	Weight (kg)	
	Flange Installation	Tripod Installation
PV2R12	25	29.3
S-PV2R12	41	51
PV2R13	45.6	55.6
S-PV2R13	64	74
S-PV2R14	94	119
PV2R23	51	61
S-PV2R23	74	84
S-PV2R24	112	137
S-PV2R34	126	151

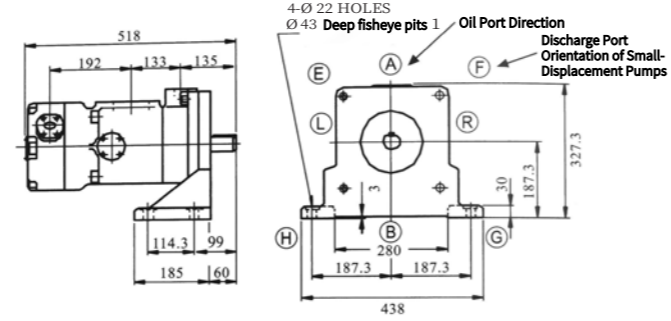
S-PV2R Series Double Vane Pumps

Maximum pressure 210 bar

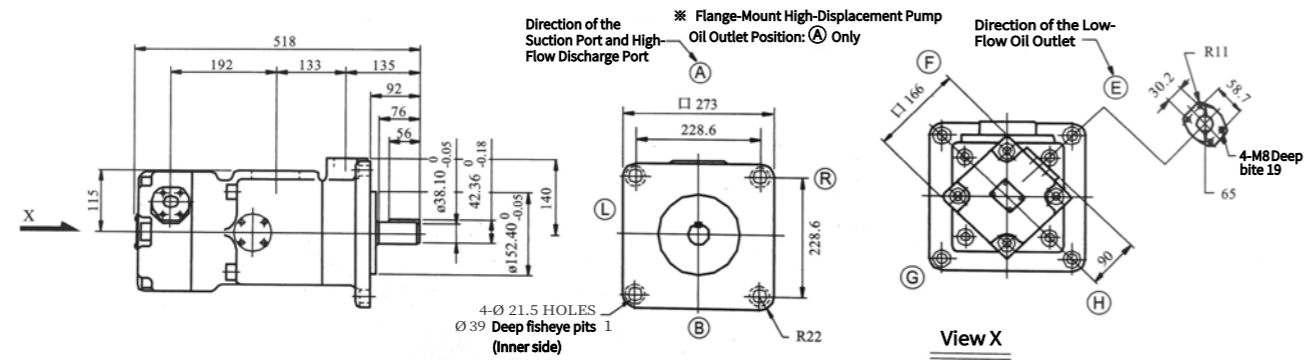
PV2R34-**-**-F (Flange-Mount Type)



PV2R34-**-**-L (Base-Mount Type)



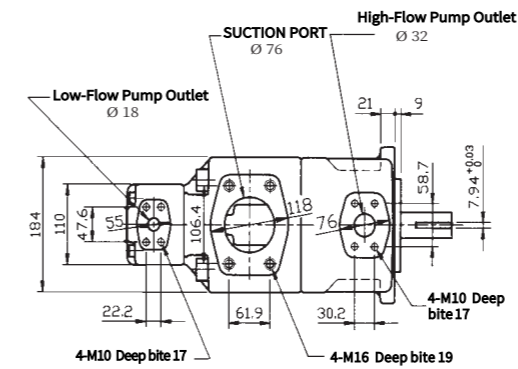
For other dimensions, please refer to the flange-mount type.



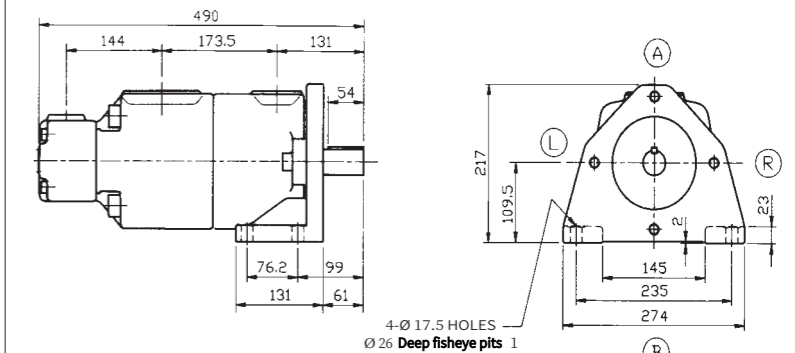
S-PV2R Series Double Vane Pumps

Maximum pressure 210 bar

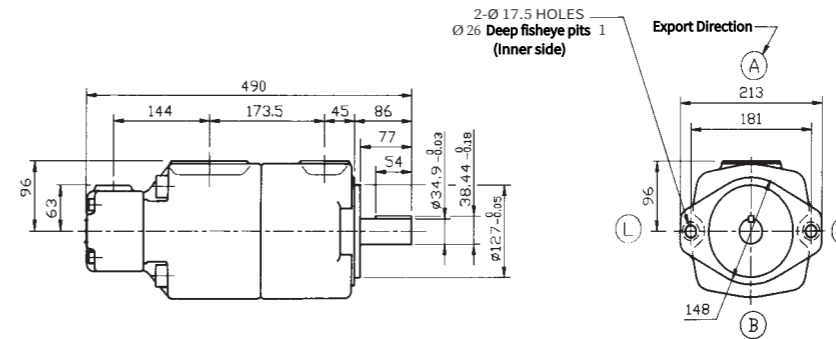
S-PV2R13-**-**-F (Flange-Mount Type)



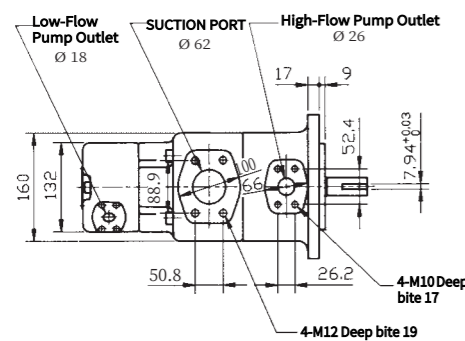
S-PV2R13-**-**-L (Base-Mount Type)



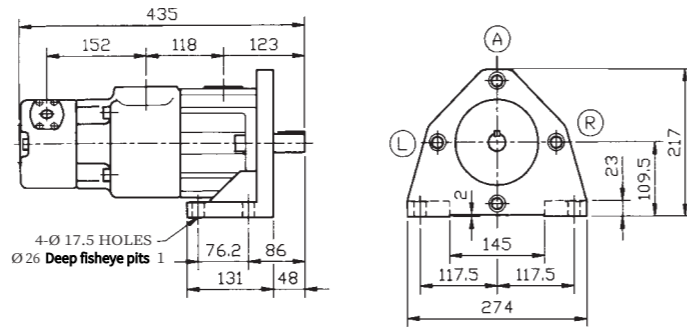
For other dimensions, please refer to the flange-mount type.



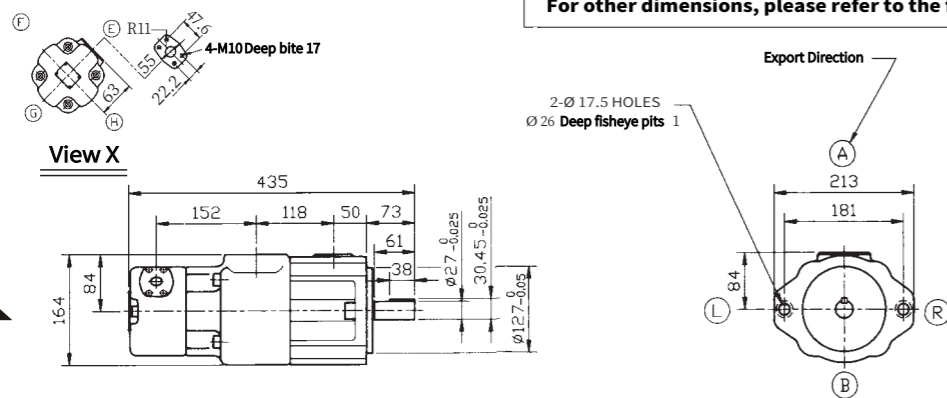
S-PV2R12-**-**-F (Flange-Mount Type)



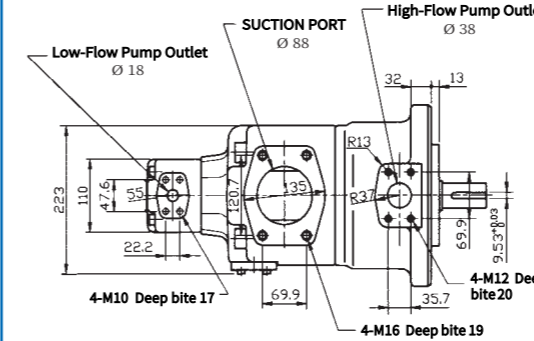
S-PV2R12-**-**-L (Base-Mount Type)



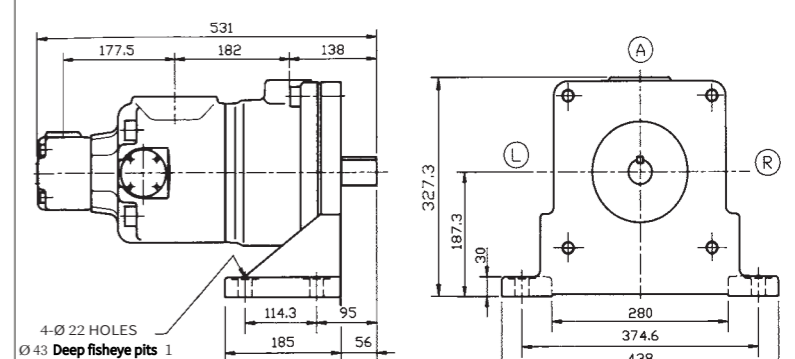
For other dimensions, please refer to the flange-mount type.



S-PV2R14-**-**-F (Flange-Mount Type)



S-PV2R14-**-**-L (Base-Mount Type)



For other dimensions, please refer to the flange-mount type.

