

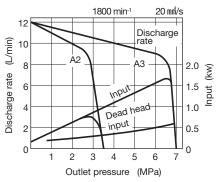
■Features

- 1. Since the pressure and flow rate are supplied corresponding to load, the power can be saved and the rise of oil temperature is restrained, ensuring economic operation.
- 2. Since the pressure compensating mechanism is provided, the relief valve, unload valve,

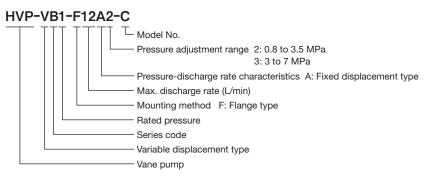
Cautions on use Please read the Operating Manual carefully to ensure correct usage.

- Direction of rotation is to right (CW) viewed from the shaft end.
- The pump can be used for R&O type and abrasion-resistant type hydraulic fluid applica-
- The pump cannot be used for water-glycol fluid.
- Please read the "Cautions on Using Pumps and Motors", A-2 and A-3 pages.
- * It is not compatible with old type HVP-VB1-F*A*-A.

■General performance characteristics



■ Description of the model designation

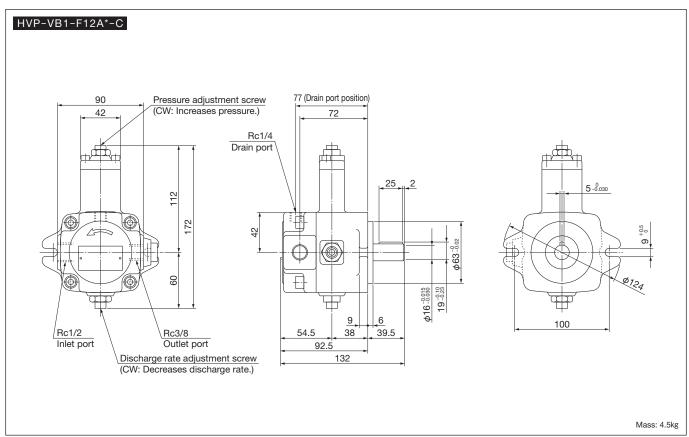


Specifications

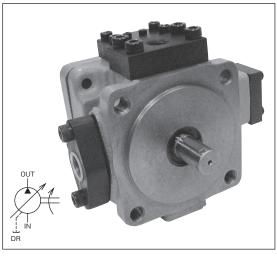
20mm²/s

Model	Discharge rate under no load (L/min)		Pressure adjustment range	Rotating speed (min-1)			
Wodel	1,200 min ⁻¹	At rated speed	(MPa)	Rated	Max.	Lowest	
HVP-VB1-F12A2-C	0	12	0.8 to 3.5	1,800	1,800	720	
HVP-VB1-F12A3-C	0		3 to 7				

Outside dimensions



VARIABLE-DISPLACEMENT VANE PUMP (HVP-VC1)



■General performance characteristics

1800 min-1

Α3

Dead head

5 6

input

3

Outlet pressure (MPa)

20 mm/s

Discharge

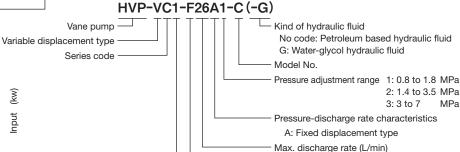
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- 2. Since the pressure compensating mechanism is provided, the relief valve, unload valve, etc. can be dispended with.

Cautions on use Please read the Operating Manual

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 Direction of rotation is to right (CW) viewed from the shaft end.
- The pump can be used for R&O type and abrasion-resistant type hydraulic fluid applications.
- When using water-glycol hydraulic fluid, specify "G" at the end of model designation. The maximum rotating speed, however, becomes 1,200 min⁻¹. For brand names of water-glycol hydraulic fluid, please consult us."
- Please read the "Cautions on Using Pumps and Motors", A-2 and A-3 pages.

■Description of the model designation



■Specifications

Discharge rate (L/min)

25

20

15

10

5

0

 $20 \text{mm}^2/\text{s}$

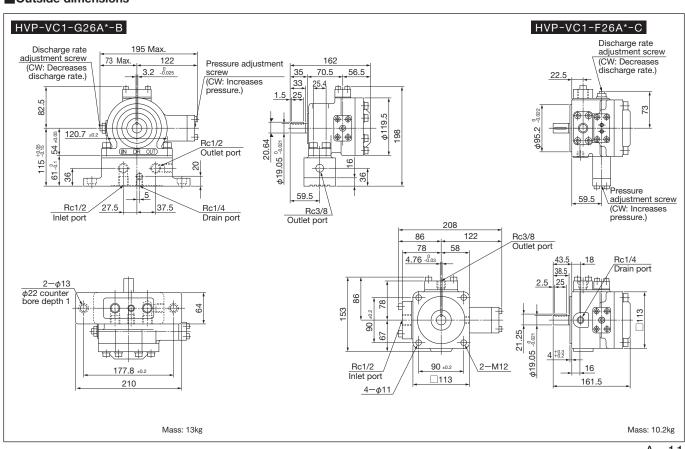
Mounting method G: Gasket type

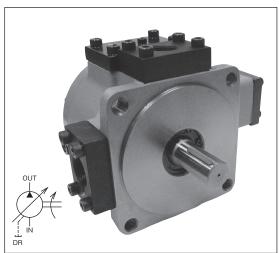
Rated pressure

F: Flange type

Model		Discharge rate under no load (L/min)		Pressure	Rotating speed (min-1)		
Gasket type	Flange type	1,200 min ⁻¹	At rated speed	adjustment range (MPa)	Rated	Max.	Lowest
HVP-VC1-G26A1-B	HVP-VC1-F26A1-C	17		0.8 to 1.8	1,800	1,800	750
HVP-VC1-G26A2-B	HVP-VC1-F26A2-C		26	1.4 to 3.5			
HVP-VC1-G26A3-B	HVP-VC1-F26A3-C			3 to 7			

Outside dimensions





Features

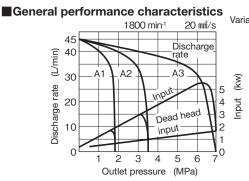
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- The pump can be used for R&O type and abrasion-resistant type hydraulic fluid applications.
- When using water-glycol hydraulic fluid, specify "G" at the end of model designation. The maximum rotating speed, however, becomes 1,200 min⁻¹. For brand names of water-glycol hydraulic fluid, please consult us.'
- Please read the "Cautions on Using Pumps and Motors", A-2 and A-3 pages.

■Description of the model designation

HVP-VD1-F45A1-C(-G)



Vane pump $ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{\mathsf{L}}}}}$ Kind of hydraulic fluid No code: Petroleum based hydraulic fluid Variable displacement type G: Water-glycol hydraulic fluid Series code Model No. Pressure adjustment range 1: 0.8 to 1.8 MPa 2: 1.4 to 3.5 MPa 3:3 to7 MPa Pressure-discharge rate characteristics A: Fixed displacement type Max. discharge rate (L/min) Mounting method G: Gasket type F: Flange type

Rated pressure

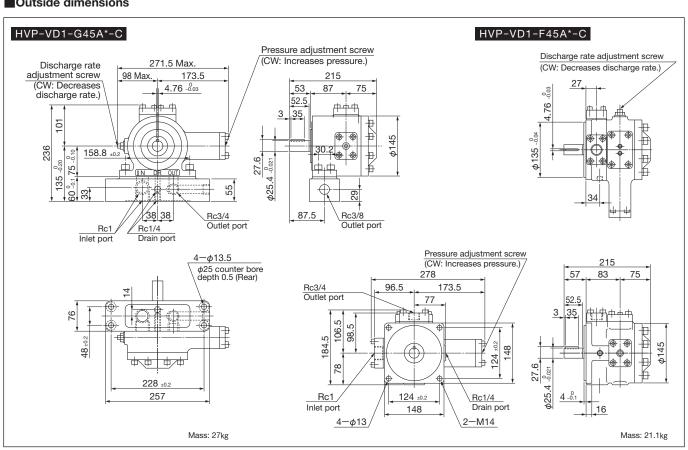
Specifications

(Note) Where the sub-plate is not required, specify "-970" at the end of model designation.

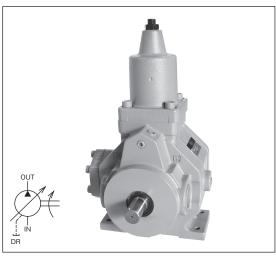
 $20 \text{mm}^2/\text{s}$

Model		Discharge rate under no load (L/min)		Pressure	Rotating speed (min-1)			
	Gasket type	Flange type	1,500 rpm	At rated speed	(MPa)	Rated	Max.	Lowest
	HVP-VD1-G45A1-C	HVP-VD1-F45A1-C			0.8 to1.8			
	HVP-VD1-G45A2-C	HVP-VD1-F45A2-C	38	45	1.4 to 3.5	1,800	1,800	750
	HVP-VD1-G45A3-C	HVP-VD1-F45A3-C			3 to 7]		

Outside dimensions



VARIABLE-DISPLACEMENT VANE PUMP (HVP-VF1)



■Features

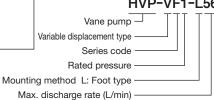
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- Cautions on use carefully to ensure correct usage.
 Direction of rotation is to right (CW) viewed from the shaft end.
- The pump can be used for R&O type and abrasion-resistant type hydraulic fluid applications.
- When water-glycol fluid is used, specify "G" at the end of model designation. For brand names of water-glycol fluid, please consult us.
- Please read the "Cautions on Using Pumps and Motors", A-2 and A-3 pages.

■Description of the model designation

HVP-VF1-L56A1-B(-G)



Kind of hydraulic fluid

No code: Petroleum based hydraulic fluid

G: Water-glycol hydraulic fluid

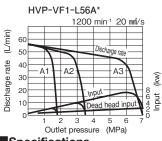
Model No.

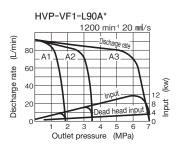
Model No.

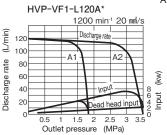
Pressure adjustment range 1: 0.8 to 1.8 MPa 2: 1.4 to 3.5 MPa 3: 3 to 7 MPa

Pressure-discharge rate characteristics
A: Fixed displacement type

■General performance characteristics





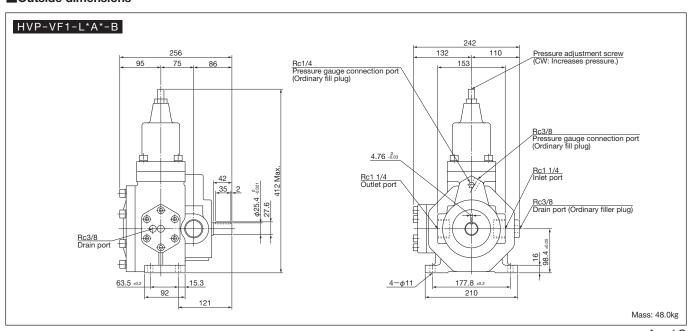


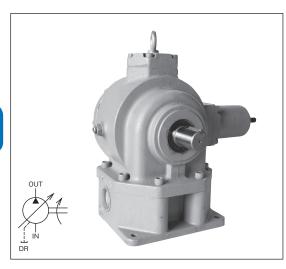
■Specifications

 $20 \text{mm}^2/\text{s}$

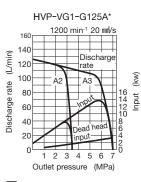
Model	Discharge rate under no load (L/min)		Pressure adjustment range	Rotating speed (min-1)			
	1,000 min ⁻¹	At rated speed	(MPa)	Rated	Max.	Lowest	
HVP-VF1-L56A1-B	47	56	0.8 to 1.8	1,200	1,200	750	
HVP-VF1-L56A2-B			1.4 to 3.5				
HVP-VF1-L56A3-B			3 to 7				
HVP-VF1-L90A1-B	75	90	0.8 to 1.8	1,200	1,200	750	
HVP-VF1-L90A2-B			1.4 to 3.5				
HVP-VF1-L90A3-B			3 to 7				
HVP-VF1-L120A1-B	100	0 120	0.8 to 1.8	1 200	1,200	750	
HVP-VF1-L120A2-B			1.4 to 3.5	1,200		750	

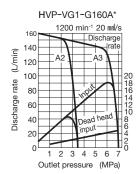
■Outside dimensions





■General performance characteristics





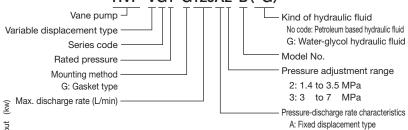
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■Description of the model designation

HVP-VG1-G125A2-B(-G)



(Note) Where the sub-plate is not required, specify "-970" at the end of model designation.

Specifications

20mm²/s

Model	Discharge rate under no load (L/min)		Pressure	Rotating speed (min-1)			
	1,000 min ⁻¹	At rated speed	adjustment range (MPa)	Rated	Max.	Lowest	
HVP-VG1-G125A2-B	104	125	1.4 to 3.5	1,200	1,200	600	
HVP-VG1-G125A3-B			3 to 7				
HVP-VG1-G160A2-B	133	160	1.4 to 3.5				
HVP-VG1-G160A3-B			3 to 7				

■Outside dimensions

