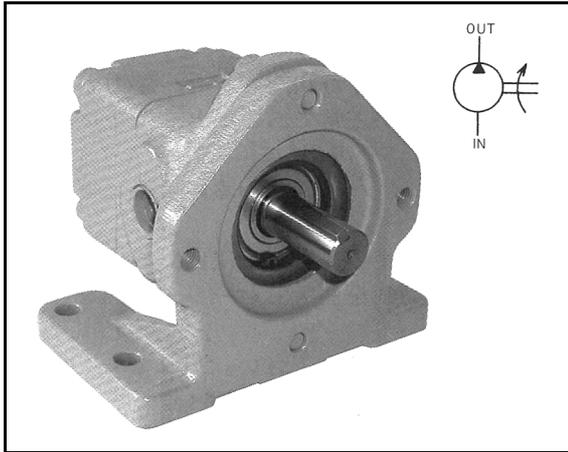


FIXED-DISPLACEMENT VANE PUMP (HVP-FA1 SERIES)



FEATURES

1. The pump is designed to be compact and lightweight.
 2. The bearing load is small thanks to the hydraulically balanced design, allowing long life and operating economy.
 3. The pump operates quietly even in high-speed applications due to excellent cavitation characteristics.
 4. The pump contains only a few component parts, made for easy maintenance.
 5. Inlet and outlet ports can be located as desired at 90-deg. intervals without restriction on their relative positions.
- The standard direction of rotation is clockwise, viewed from the shaft end.
 - The standard inlet port position is at the left, viewed from the shaft end.
 - The standard outlet port position is at the right, viewed from the shaft end.
 - The foot-mount style allows the positioning of the inlet port at the 180-deg. position and the outlet port at the 90-deg. position in addition to the standard positions.
 - The permissible operating ambient temperature range is from 0 to 60°C.
 - The pump can be used for R&O type and abrasion-resistant type hydraulic fluid applications.
 - The permissible fluid temperature is as below:
Equivalent to ISO VG32: 0 to 60°C (350 to 15 mm²/sec)
Equivalent to ISO VG46: 6 to 65°C (350 to 18 mm²/sec)
 - The pump cannot be used for water-glycol fluid.

SPECIFICATIONS

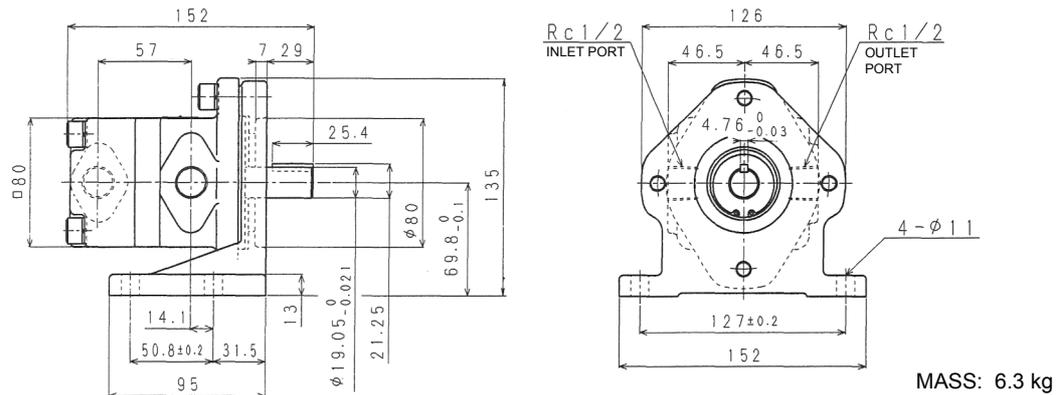
1,800 min⁻¹ 20 mm²/s

Model	Displacement (cm ³ /rev)	Pressure (MPa)		Flow (L/min)					Input (kW)					Speed (min ⁻¹)		
		Rating	Max.	0.5 MPa	2 MPa	3.5 MPa	5 MPa	7 MPa	0.5 MPa	2 MPa	3.5 MPa	5 MPa	7 MPa	Rating	Max.	Min.
HVP-FA1-*2R-A	2.3	7	7	4.1	3.9	3.6	3.4	3.0	0.18	0.37	0.56	0.75	1.0	1,800	1,800	900
HVP-FA1-*5R-A	4.3			7.7	7.3	7.0	6.6	6.2	0.21	0.52	0.76	0.99	1.3			
HVP-FA1-*8R-A	7.3			12.9	12.5	12.1	11.7	11.2	0.24	0.65	1.07	1.49	2.04			
HVP-FA1-*11R-A	10.9			19.1	18.5	17.9	17.3	16.6	0.32	0.91	1.5	2.09	2.87			

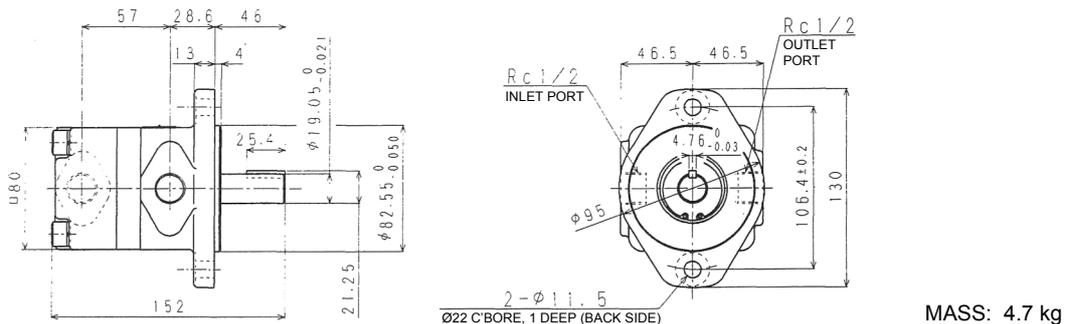
NOTE: The symbol "*" in the Model column indicates the mounting method - L for foot-mount and F for flange-mount.

EXTERNAL DIMENSIONS

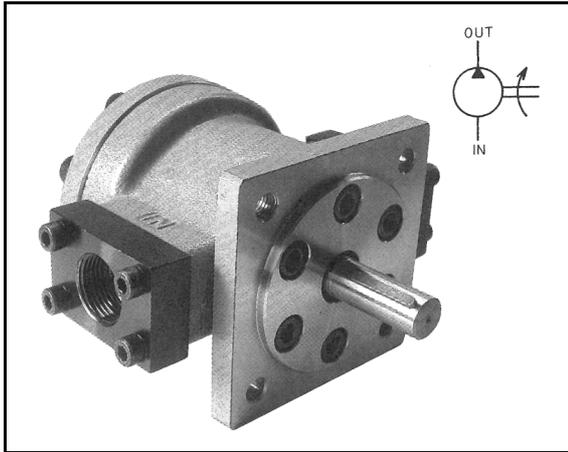
• HVP-FA1-L*R-A



• HVP-FA1-F*R-A



FIXED-DISPLACEMENT VANE PUMP (HVP-FC1 SERIES)



FEATURES

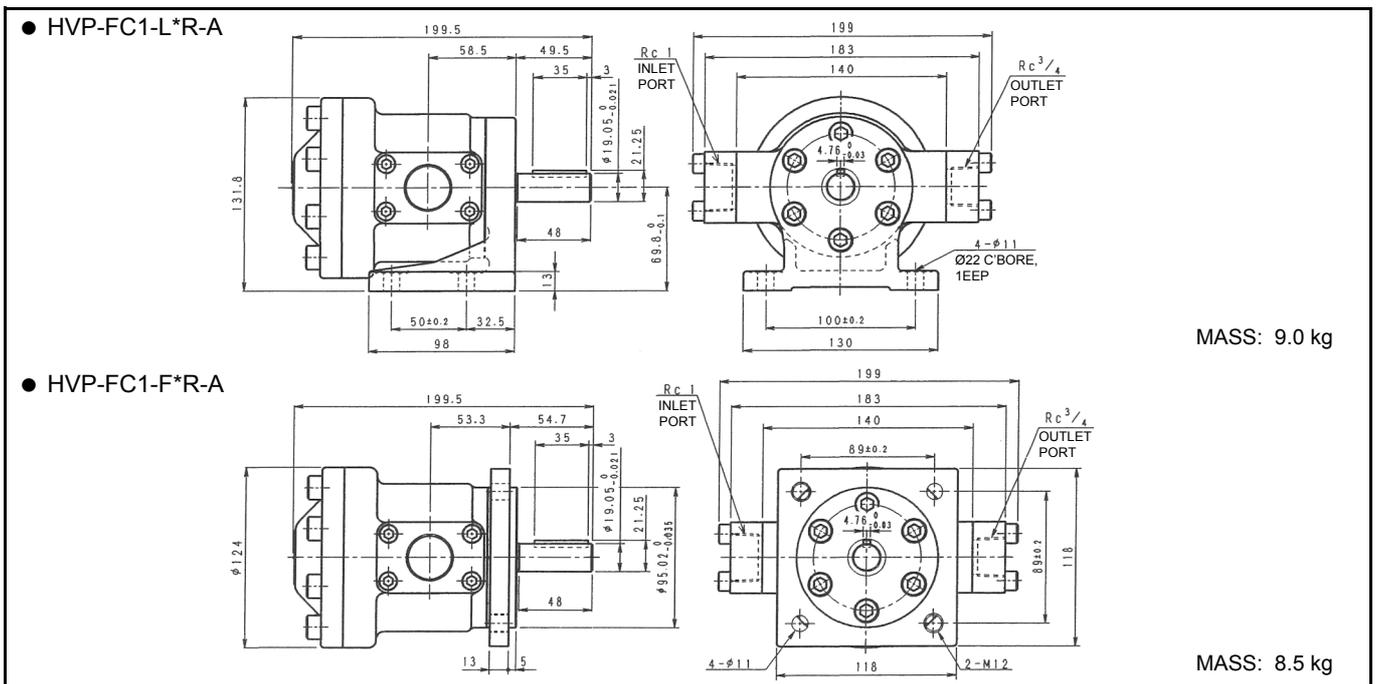
1. The bearing load is small thanks to the hydraulically balanced design, allowing long life and operating economy.
 2. The pump operates quietly even in high-speed applications due to excellent cavitation characteristics.
 3. The flange-mount style pipe connection port allows installation/removal of a pump without disconnecting pipes.
- The standard direction of rotation is clockwise, viewed from the shaft end.
 - The standard inlet port and outlet port positions are left and right, respectively, viewed from the shaft end.
 - When fire-resistant fluid is used, specify "G" (water-glycol fluid) at the end of model designation. In this case, the maximum speed is 1,200 min⁻¹. Please consult us about the applicable brand of water-glycol fluid.
Example: HVP-FC1-L26R-A-G
 - It is possible to change the direction of pump rotation. For details, please consult us.
 - The pump can be used for R&O type and abrasion-resistant type hydraulic fluid applications.
 - The permissible fluid temperature is as below:
Equivalent to ISO VG32: 0 to 60°C (350 to 15 mm²/sec)
Equivalent to ISO VG46: 6 to 65°C (350 to 18 mm²/sec)
 - The permissible operating ambient temperature range is from 0 to 60°C.

SPECIFICATIONS

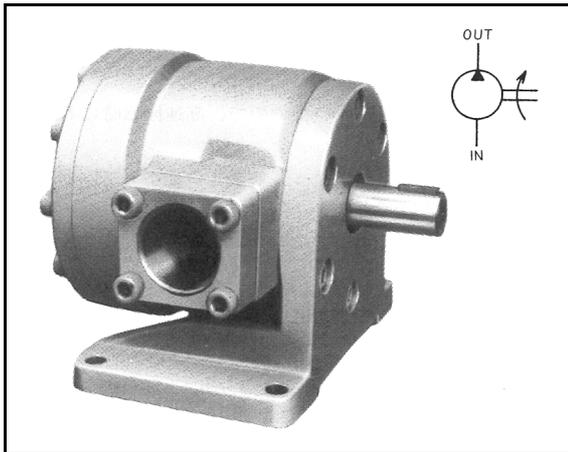
Model	Displacement (cm ³ /rev)	Pressure (MPa)		Flow (L/min)					Input (kW)					Speed (min ⁻¹)		
		Rating	Max.	0.5 MPa	2 MPa	3.5 MPa	5 MPa	7 MPa	0.5 MPa	2 MPa	3.5 MPa	5 MPa	7 MPa	Rating	Max.	Min.
				1,800 min ⁻¹	20 mm ² /s	1,800 min ⁻¹	20 mm ² /s	1,800 min ⁻¹	20 mm ² /s	1,800 min ⁻¹	20 mm ² /s	1,800 min ⁻¹	20 mm ² /s			
HVP-FC1-*5R-A	5.0	7	7	8.5	8.1	7.8	7.4	6.9	0.3	0.6	1.0	1.4	1.9	1,800	1,800	600
HVP-FC1-*8R-A	7.6			13.1	12.6	12.1	11.6	11.0	0.3	0.8	1.3	1.7	2.3			
HVP-FC1-*11R-A	11.2			19.4	18.8	18.2	17.5	16.7	0.4	1.1	1.8	2.4	3.3			
HVP-FC1-*14R-A	14.3			24.8	24.2	23.6	23.1	22.3	0.4	1.2	2.0	2.8	3.8			
HVP-FC1-*17R-A	17.6			30.5	29.8	29.1	28.4	27.4	0.6	1.5	2.4	3.3	4.5			
HVP-FC1-*21R-A	20.9			36.4	35.8	35.2	34.5	33.7	0.6	1.7	2.8	3.8	5.3			
HVP-FC1-*26R-A	26.5			46.2	45.6	44.8	44.1	43.1	0.8	2.1	3.4	4.8	6.5			
HVP-FC1-*32R-A	32.1			56.3	55.5	54.5	53.6	52.3	0.9	2.5	4.1	5.8	8.0			
HVP-FC1-*39R-A	36.9			64.8	63.8	62.7	61.6	60.1	1.1	3.0	4.9	6.8	9.3			

NOTE: The symbol "*" in the Model column indicates the mounting method - L for foot-mount and F for flange-mount.

EXTERNAL DIMENSIONS



FIXED-DISPLACEMENT VANE PUMP (HVP-FE1 SERIES)



FEATURES

1. The bearing load is small thanks to the hydraulically balanced design, allowing long life and operating economy.
 2. The pump contains only a few component parts, made for easy maintenance.
 3. The flange-mount style pipe connection port allows installation/removal of a pump without disconnecting pipes.
- The standard direction of rotation is clockwise, viewed from the shaft end.
 - The standard inlet port and outlet port positions are left and right, respectively, viewed from the shaft end.
 - The pump can be used for R&O type and abrasion-resistant type hydraulic fluid applications.
 - The permissible fluid temperature is as below:
Equivalent to ISO VG32: 0 to 60°C (350 to 15 mm²/sec)
Equivalent to ISO VG46: 6 to 65°C (350 to 18 mm²/sec)
 - When fire-resistant fluid is used, specify "G" (water-glycol fluid) at the end of model designation. In this case, the maximum speed is 1,200 min⁻¹. Please consult us about the applicable brand of water-glycol fluid.
Example: HVP-FE1-L50R-A-G
 - It is possible to change the direction of pump rotation. For details, please consult us.
 - The permissible operating ambient temperature range is from 0 to 60°C.

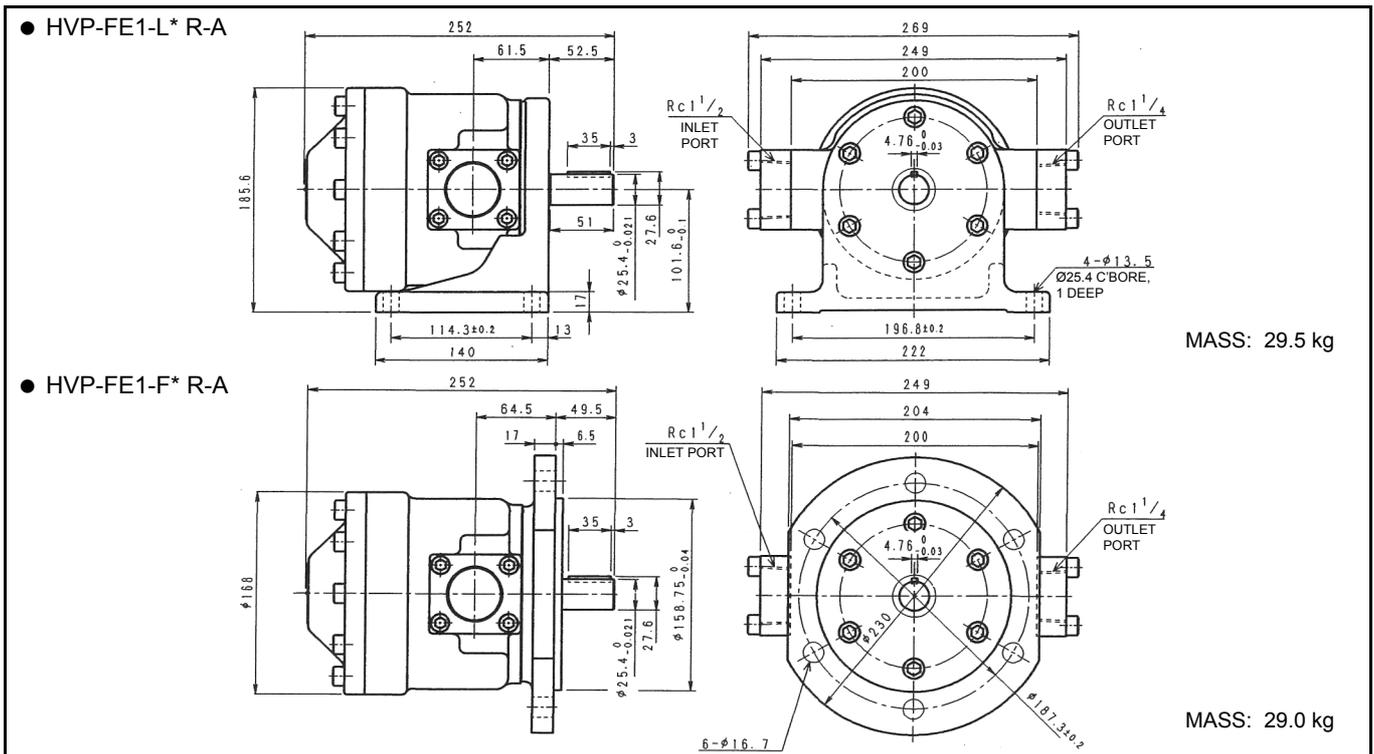
SPECIFICATIONS

Model	Displacement (cm ³ /rev)	Pressure (MPa)		Flow (L/min)					Input (kW)					Speed (min ⁻¹)		
		Rating	Max.	0.5 MPa	2 MPa	3.5 MPa	5 MPa	7 MPa	0.5 MPa	2 MPa	3.5 MPa	5 MPa	7 MPa	Rating	Max.	Min.
				7	7	57.4	55.9	54.5	53.0	51.1	1.2	2.7	4.5			
HVP-FE1-* 50R-A	49.2	7	7	73.9	72.4	70.9	69.4	67.4	1.5	3.3	5.6	7.8	10.5	1,200	1,800	600
HVP-FE1-* 60R-A	63.5			89.6	88.0	86.4	84.8	82.7	1.9	4.0	6.7	9.3	12.7			
HVP-FE1-* 75R-A	77.0			96.8	95.1	93.3	91.6	89.3	2.0	4.4	7.3	10.2	13.9			
HVP-FE1-* 85R-A	83.2			111.2	109.2	107.2	105.2	102.5	2.2	5.0	8.2	11.4	15.6	1,200	1,500	600
HVP-FE1-* 95R-A	95.5			120.6	118.7	116.8	114.9	112.4	2.4	5.3	8.8	12.3	16.8			
HVP-FE1-* 108R-A	103.7			138.4	136.3	134.1	132.0	129.1	2.7	6.1	10.1	14.1	19.2	1,200	1,200	600
HVP-FE1-* 120R-A	119.1															

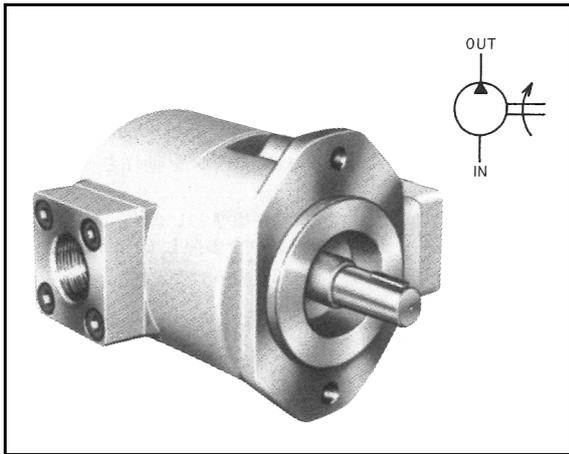
1,200 min⁻¹ 20 mm²/s

NOTE: The symbol "*" in the Model column indicates the mounting method - L for foot-mount and F for flange-mount.

EXTERNAL DIMENSIONS



FIXED-DISPLACEMENT VANE PUMP (HVP-FC2 SERIES)



FEATURES

1. The bearing load is small thanks to the hydraulically balanced design, allowing long life and operating economy.
 2. Since the main component parts are assembled in a cartridge, part replacement is easy.
 3. In addition to the standard configuration, the inlet and outlet ports can be located at 90-deg. and 180-deg. intervals, respectively.
 4. The flange-mount style pipe connection port allows installation/removal of a pump without disconnecting pipes.
- The standard direction of rotation is clockwise, viewed from the shaft end.
 - The standard inlet port and outlet port positions are left and right, respectively, viewed from the shaft end.
 - The pump can be used for R&O type and abrasion-resistant type hydraulic fluid applications.
 - The permissible fluid temperature is as below:
Equivalent to ISO VG32: 0 to 60°C (350 to 15 mm²/sec)
Equivalent to ISO VG46: 6 to 65°C (350 to 18 mm²/sec)
 - The standard pump can be used for water-glycol fluid. In this case, the maximum speed is 1,200 min⁻¹. Please consult us about the applicable brand of water-glycol fluid.
 - It is not possible to change the direction of rotation.
 - The permissible operating ambient temperature range is from 0 to 60°C.

SPECIFICATIONS

Model	Displacement (cm ³ /rev)	Pressure (MPa)		Flow (L/min)					Input (kW)					Speed (min ⁻¹)		
		Rating	Max.	0.5 MPa	3.5 MPa	7 MPa	10.5 MPa	14 MPa	0.5 MPa	3.5 MPa	7 MPa	10.5 MPa	14 MPa	Rating	Max.	Min.
				29.0	28.1	27.1	26.0	25.0	0.7	2.2	4.0	5.7	7.5			
HVP-FC2-*17R-A	17	14	14	43.0	41.8	40.4	38.9	37.5	0.9	3.1	5.8	8.4	11.0	1,800	1,800	950
HVP-FC2-*25R-A	25			60.0	58.4	56.6	54.8	53.0	1.1	4.2	7.8	11.4	15.0			
HVP-FC2-*35R-A	35			86.5	84.5	82.2	79.8	77.5	1.3	5.8	11.0	16.3	21.5			
HVP-FC2-*50R-A	50															

1,800 min⁻¹ 20 mm²/s

NOTE: The symbol "*" in the Model column indicates the mounting method - L for foot-mount and F for flange-mount.

EXTERNAL DIMENSIONS

