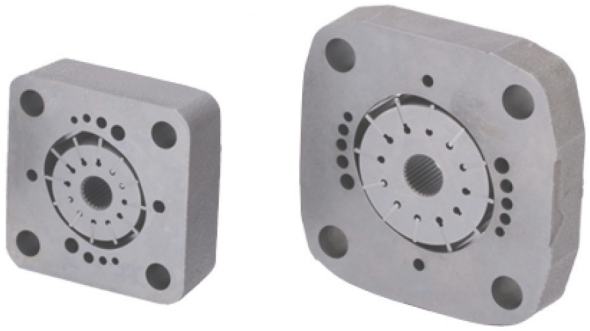
Cartridge Kit for Vane Pump HV10 and HV20 Series

Features and Handling

• Replacement for single and double
HV10, HV10F, HV10P,
HV20, HV20F, HV20P,
HV2010, HV2010F, HV2010P,
HV2020, HV2020F, HV2020P,
HV210, HV230

It is the cartridge consists of a cam ring, a rotor, and 12 vanes

• To change rotation, flip the cam ring so that the arrow point to the other direction. No need to do anything with the vanes.



Specifications : HV10

Model	Ring Size Delivery at 1200 r/min & 7 bar (100 psi) USgpm	Geometric Displacement cm^3/r (in^3/r)	Delivery at 1500 r/min & 7 bar (100 psi) L/min (USgpm)	Maximum Pressure bar (psi)	Maximum Speed rpm	Minimum Speed rpm	Weight kg (lb)
HV 10	1	3.3 (0.20)	4.70 (1.25)	172 (2500)	4800	650	0.6 (1.3)
	2	6.6 (0.40)	9.40 (2.50)		4500		
	3	9.8 (0.60)	14.20 (3.75)		4000		
	4	13.1 (0.80)	18.90 (5.00)		3400		0.8 (1.7)
	5	16.4 (1.00)	23.60 (6.25)		3200		
	6	19.5 (1.19)	28.40 (7.50)	152 (2200)	3000		1.0 (2.2)
	7	22.8 (1.39)	33.10 (8.75)	138 (2000)	2800		

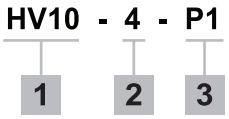
Cartridge Kit for Vane Pump HV10 and HV20 Series

HV20

Model	Ring Size Delivery at 1200 r/min & 7 bar (100 psi) USgpm	Geometric Displacement cm³/r (in³/r)	Delivery at 1500 r/min & 7 bar (100 psi) L/min (USgpm)	Maximum Pressure bar (psi)	Maximum Speed rpm	Minimum Speed rpm	Weight kg (lb)
HV 20	5	16.4 (1.00)	23.60 (6.25)	172 (2500)	3400	650	1.2 (2.6)
	6	19.5 (1.19)	28.39 (7.50)		3400		1.1 (2.4)
	7	22.8 (1.39)	33.11 (8.75)		3000		1.6 (3.5)
	8	26.5 (1.62)	37.85 (10.00)		2800		
	9	29.7 (1.81)	42.57 (11.25)		2800		
	10	34.1 (2.08)	47.30 (12.51)		2500		2.1 (4.6)
	11	36.4 (2.22)	52.04 (13.75)		2500		
	12	39.0 (2.38)	56.77 (15.00)	152 (2200)	2400		2.3 (5.0)
	13	42.4 (2.59)	61.50 (16.25)		2400		

Cartridge Kit for Vane Pump HV10 and HV20 Series

Ordering Code



1. Model :
   HV10, HV10F, HV10P
   HV20, HV20F, HV20P
   HV2010, HV2010F, HV2010P
   HV2020, HV2020F, HV2020P
   HV210, HV230

2. Ring Size (USgpm at 1200 rpm & 7 bar)
   HV10, HV10F,HV10P - 1, 2, 3, 4, 5, 6, 7
   HV2010, HV2010F, HV2010P

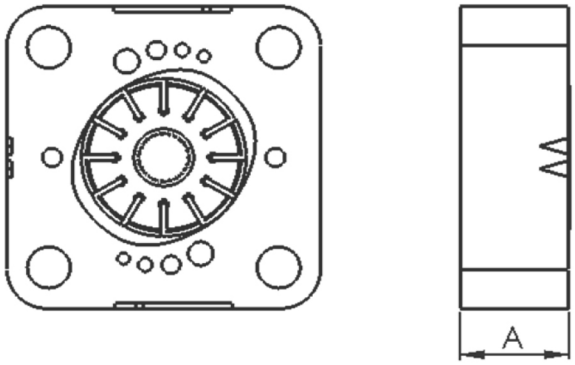
   HV20, HV20F, HV20P - 5, 6, 7, 8, 9, 10, 11, 12,
   HV2010, HV2010F, HV2010P 13
   HV2010, HV2010F, HV2010P
   HV2020, HV2020F, HV2020P
   HV210, HV230

3. Cartridge Position
   P1 - For single pump or shaft end in double pump
   P2 - For cover end in double pump

Cartridge Kit for Vane Pump HV10 and HV20 Series

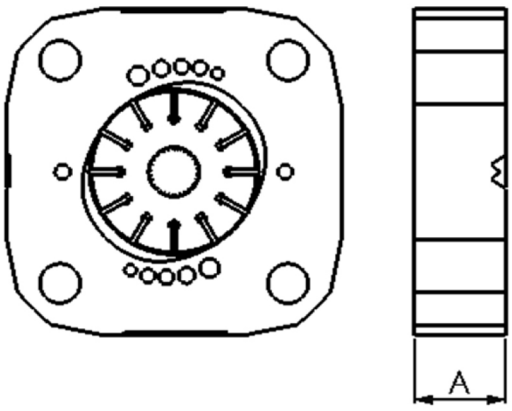
Installation Dimension mm (inch)

Cartridge Kit HV10



Delivery	A
1,2,3	15.6(0.61)
4,5	21.9(0.86)
6,7	26.9(1.06)

Cartridge Kit HV20



Delivery	A
5,6	15.5(0.61)
7,8,9	21.9(0.86)
10,11	26.9(1.06)
12,13	30.4(1.19)