

## Features

- **High efficiency**  
Combining high efficient motor (complies with IE3 requirement) can save 20% more energy compared to normal motors and pumps.
- **Low temperature**  
High volumetric efficiency and low leakage will cause less heat generation and improves the accuracy.
- **Space-saving**  
Special integrated design of motor pump will make the whole pump group reduces space required for pump assembly.
- **Long working life**  
Unique wet connection and largely extend the working life of pump group.
- **Low noise**  
Using special connection between motor and pump eliminates vibration and eccentricity of shaft, and results in less noise.

## VUP SERIES



## Ordering Code

VUP - 16 - 2 - 2.2 - 10

1      2      3      4      5

1 Wet Motor Pump

2 Flow Of Vane Pump

- 08: 8cm<sup>3</sup>/ rev
- 16: 16cm<sup>3</sup>/ rev

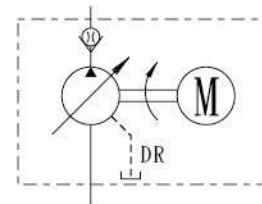
3 Range Of Pressure Adjustment

- 1: 1.5~4MPa
- 2: 3.5~6MPa
- 3: 5.5~8MPa

4 Output Of Motor

- 0.7: 0.75 kW
- 1.5: 1.5 kW
- 2.2: 2.2 kW

5 Design Version



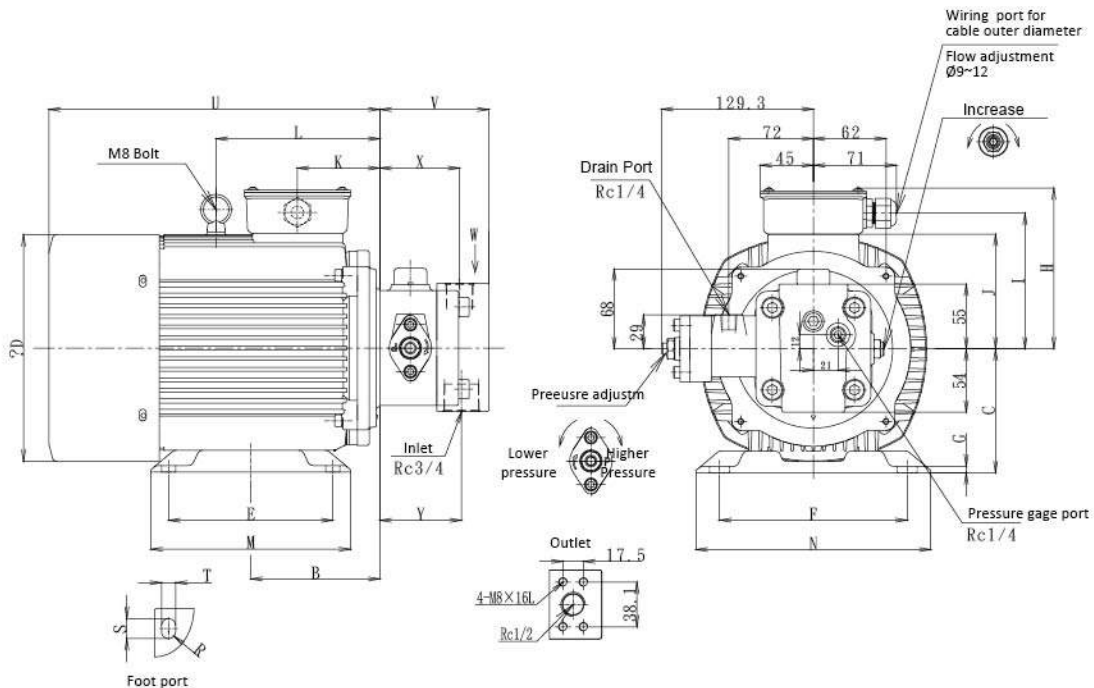
GRAPHIC SYMBOLS

# VUP SERIES

## Specifications

Models	Items	Fluid Flow (cm <sup>3</sup> /rev)	Adjustable Pressure Ranges (MPa)	Max Flow (L/min)
VUP-08-1-0.7/1.5-10	8		1.5 ~ 4	14.5 (1800rpm)
VUP-08-2-0.7/1.5-10			3.5 ~ 6	
VUP-08-3-0.7/1.5-10			5.5 ~ 8	
VUP-16-1-1.5/2.2-10	16		1.5 ~ 4	29 (1800rpm)
VUP-16-2-1.5/2.2-10			3.5 ~ 6	
VUP-16-3-1.5/2.2-10			5.5 ~ 8	

## Mounting Dimensions



Model	Dimensions (mm)																		Weight (Kg)	
	B	C	D	E	F	G	H	I	J	K	L	M	N	TxS	R	U	V	X		Y
VUP-8-1-0.7-10	90	80	158.5	100	125	3	120	100.5	82.5	68	130	120	155	10x15	5	231	93	68	69.5	20
VUP-8-2-1.5-10	100	90	170	125	140	3	126.5	105	87	68.5	135	150	170	10x15	5	249	93	68	69.5	25
VUP-8-3-2.2-10	110	105.5	193	140	160	5.5	137	115.5	97.5	68.5	137.5	170	200	12x17	6	280	93	68	69.5	31

## VUP SERIES

### Instructions

- ◆ Provide a mounting base of sufficient rigidity, and install so that the pump shaft is oriented horizontally.
- ◆ Make sure the flow rate of the suction piping is no more than 2m/s, and that the suction pressure at the pump suction port is in the range of -0.03~0.03 MPa. Provide a suction strainer with a filtering grade of about 100μm.
- ◆ Drain piping must be direct piping up to a point that is below the tank fluid level, and back pressure due to pipe resistance should not exceed 0.1 MPa. The impact pressure shouldn't exceed 0.3 MPa.
- ◆ The direction of rotation is clockwise(rightward) when viewed from the motor fan side.
- ◆ At startup, repeat the inching operation (start-stop) with the pump discharge side at unloading to bleed air from the pump and suction piping.
- ◆ Make sure the peak pressure (impact loading) don't exceed 14 MPa. If it exceeds 14 MPa, please set the corresponding device to protect the vane pump.
- ◆ Use the fluid with a kinematic viscosity at a fluid temperature of 15~60°C. The fluid type is equivalent to ISO VG32~46.
- ◆ For the return line to tank, use a 25μm line filter. Manage hydraulic operating fluid so contamination is maintained at class NAS 10 or lower. Take care to avoid contamination with water and change the fluid.

- ◆ Pressure adjustment: pressure is increased by clockwise (rightward) rotation of the adjusting screw and decreased by counterclockwise (leftward). After adjustment is complete, securely tighten the lock nut.
- ◆ Flow rate adjustment: the rate is decreased by clockwise (rightward) rotation of the adjusting screw and increased by counterclockwise. The graph below provides general guidelines for the relationship between the rotation angle of the flow rate adjusting screw and the unloading flow rate.
- ◆ Except for the pressure and flow rate adjustment, please don't adjust the other device to avoid the vane pump broken.

