



Oil Rotary Vane Vacuum Pump (MVP SERIES 6 ~ 90 m3/h)

MVP Series is two-stage oil sealed rotary vane vacuum pump. It is a new concept out of conventional design to satisfy customer's needs.

It consists of pump housing, oil casing, motor housing, pump base and pump module. It occupies oil anti-suckback-valve and gas ballast for protecting pump and vacuum system.

Operating Principle The pump and motor are connected by flexible coupling. As the rotor rotates two vanes, placed in rotor vane groove, turn making contact with the internal surface of the cylinder due to centrifugal force. The inhaled gas is trapped between two vanes as the rotating vane passes through the inlet passage and this trapped gas is compressed as it rotates toward exhaust valve and eventually exhaust through valve. The vacuum oil is supplied to the moving parts for lubrication and tight sealing.





TECHNICAL DATA

DESCRIPTION			UNIT	MVP6	MVP12	MVP24	MVP36	MVP60	MVP90
Displacement speed		60Hz	m³/h	6	12	24	36	60	90
			L/Min	100	200	400	600	1000	1500
		50Hz	m³/h	5	10	20	30	50	75
			L/Min	80	170	335	500	830	1250
Ultimate pressure	Gas b	pallast C	Torr	5 x 10 ⁻⁴					
	Gas ballast		Torr	5 x 10-3					
	Gas t	pallast	Torr	5 x 10 ⁻²					
Water vapour tolerance			Torr	40	40	25	25	40	40
Oil filling		L	1.1	1.2	2.0	2.3	4.5	6.5	
Inlet port			DN	25KF				40KF	
Outlet port			DN	25KF				40KF	
M	Motor power KW U.4 0.75				/5	1.5	2.2		
Rotational spe	eed	60Hz	R.P.M	1750					
amua to		50Hz	R.P.M	1450					
Noise level (without gas ballast)			dB	50	50	52	52	56	56
Weight			Ku	21	22.5	38	41	68	84

Oil Rotary Vane Vacuum Pump (MVP SERIES 144 ~ 540 m3/h)

TECHNICAL DATA										
DESC	UNIT	MVP144	MVP216	MVP324	MVP432	MVP540				
Displacement Speed	60Hz	m3/h	144	216	324	432	540			
		L/Min	2400	3600	5400	7200	9000			
	50Hz	m3/h	120	180	270	360	450			
		L/Min	2000	3000	4500	6000	7500			
Ultimate Pressure	With gas ballast	Torr	5x10-3							
	Without gas ballast	Torr								
Inlet Port	Port			ISO 63	ISO 100					
Outlet Port		mm		ISO40	ISO 100					
Motor Power		kw	3.7	5.5	7.5	11	15			
Rotational speed of	60Hz	R.P.M	1750							
pump	50Hz	R.P.M	1450							
Oil Filling		Liter	11	16	17	28	35			
Cooling water (less than 20		L/Min			6	8	8			



DESIGN FEATURE

- 1. Excellent ultimate vacuum and pumping speed.
- 2. Improved anti-suckback system to protect the pump in the event of sudden stop.
- 3. International standard flange.
- 4. Low noise level and low vibration level.
- 5. Constant pressure oil circulating system.
- 6. Convenient gas ballast valve control.
- 7. Simple repairing and maintenance,
- 8. Convenient cooling system by air-cooled and water-cooled(MVP-324/432/540)