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Oil Rotary Vacuum Pump **VD Series**

VD series is a direct-drive low noise oil rotary vacuum pump. This pump is suitable for a wide range of applications such as evaporator, sputtering and vacuum packaging.



Features

- · Optimization Design for Quiet Operation
- Easy Maintenance

Pump head can be removed without disconnecting the vacuum piping (except VD151, VD201). *See attached figure. Oil level gauge and drain valve accessible for easy oil exchange and daily inspection.

 Forced Oil Circulation System Ensures Stable Pumping Speed below Atmospheric Pressure

When equipped with the optional oil mist trap and oil return mechanism, the VD301, VD401 and VD601 can continuously run at all pressure ranges under atmospheric pressure.

• Totally enclosed fan cooled 3 phase AC motor

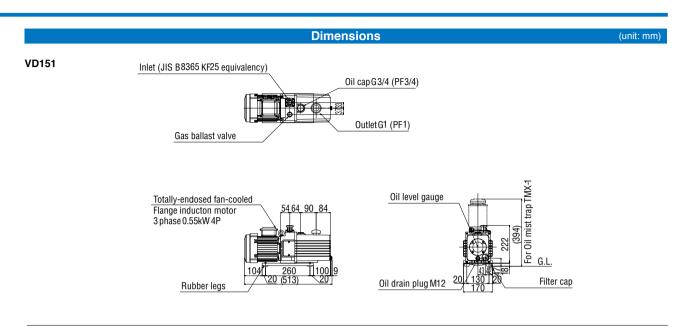
Multiple voltage motor is equipped on the VD151 and

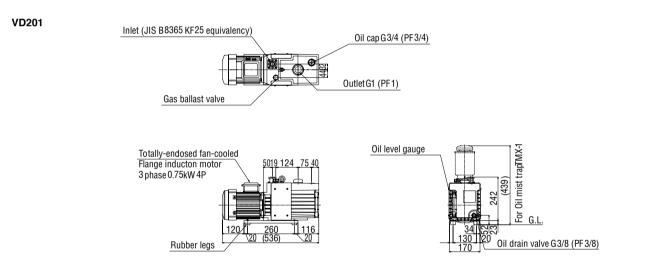
VD201. Either 200V class or multiple voltage type is
selectable for the VD301 to VD901. All model are complied
with high efficiency regulation (IE2/EPAct).

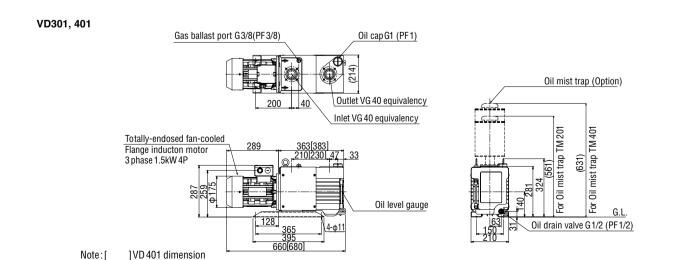
Applications

- · Evaporation, sputtering, and ion plating
- · Analytical instrument and leak test system
- Gas exchange, gas filling, and vacuum insulation
- Vacuum drying, freeze drying, vacuum degassing, vacuum packing, vacuum chuck and vacuum molding, etc.

Components Division, ULVAC, Inc.



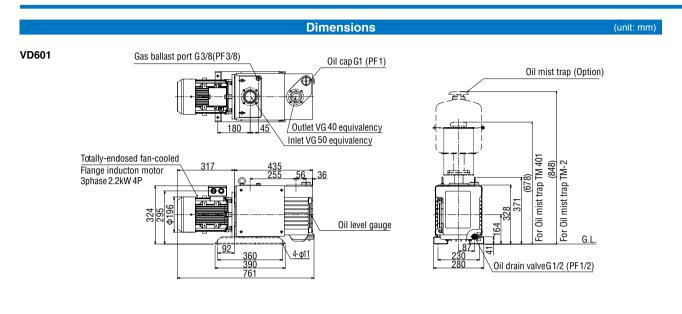


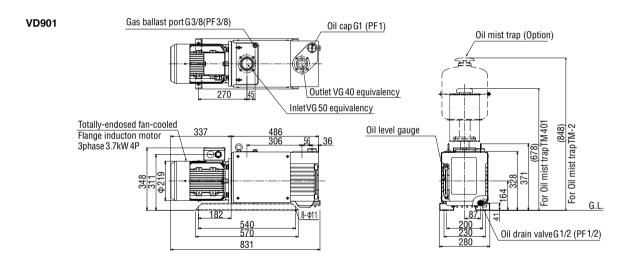


Vacuum Pump

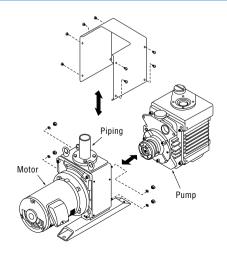
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Oil Rotary Vacuum Pump **VD Series**





When a pump is removed (VD301-VD901)



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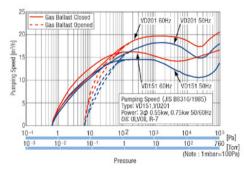
Vacuum Pump

				Specifica	ations				
Model			VD151	VD201	VD301	VD401	VD601	VD901	
Designed pumping speed		m³/h	14.4	20.2	30	40	60	90	
		L/min	240	336	500	670	1000	1500	
		CFM	8.47	11.89	17.66	23.54	35.31	52.97	
	60Hz	m³/h	17.3	24.2	36	48	72	108	
		L/min	288	403	600	800	1200	1800	
		CFM	10.18	14.24	21.29	28.25	42.38	63.57	
Ultimate pressure *1	GP close Pa Torr mbar	Pa	0.67						
		Torr	5 × 10 ⁻³						
		mbar	6.7 × 10 ⁻³						
	GP open	Pa	6.	.7	2				
		Torr	5 ×	10 ⁻²	1.5 × 10 ⁻²				
	mbar		6.7 ×	: 10 ⁻²		2.0 × 10 ⁻²			
Motor *2	Tyl	ре	Totally enclosed fan cooled 3 phase AC mo				tor		
	kW (number of poles)		0.55 (4)	0.75 (4)	1.5 (4)		2.2 (4)	3.7 (4)	
	HP (number of poles)		0.75 (4)	1 (2)	2 (4)		2.95 (4)	4.96 (4)	
	0 (),		[Multiple voltage] 200V to 240V/380V to 415V (50Hz) 200V to 240V/380V to 460V (60Hz)		[200V class] 200V/50Hz,60Hz, 220V/60Hz [Multiple voltage] 220V to 240V/380V to 415V (50Hz) 208V to 240V/380V to 460V (60Hz)				
Oil *3					ULVOIL R-7				
Oil capacity			0.7 to 1.1 L		1.0 to 2.5 L		2.5 to 4.0 L		
Cooling method				Air cooled					
Inlet		JIS B 8365 KF25 equivalency		VG40 equivalency/KF40 (optional)		VG50 equivalency/KF50 (optional)			
Outlet		G1		VG40 equivalency/KF40 (optional)		VG40 equivalency/KF40 (optional)			
Weight		29 kg	34 kg	57 kg	59 kg	86 kg	109 kg		
External dimensions W×L×H			170×514×240mm	170×536×265mm	210×660×324mm	210×660×324mm	280×761×371mm	280×831×371mm	
Certification		С	E	CE/cTUVus					
Standard accessories			Motor, Oil for 1 pump, Operation manual						
Options			Oil mist trap Oil mist trap, Gas ballast valve, Oil return mechanism, Helium tight, ISO flange						

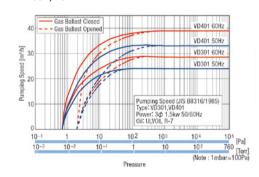
^{*1} Measured with a Pirani gauge. (Approx. 6.7×10⁻²Pa when measured with a McLeod vacuum gauge.)

Pumping Speed Curves

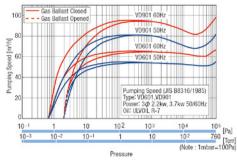
VD151, 201



VD301, 401



VD601, 901



^{*2} Increased safety explosion-resistant motor and pressure proof explosion-resistant flange motor are available as option except the VD151 and VD201.

^{*3} Other oil types are available upon request.