

Vacuum generator for process gas exhaust

VG Series

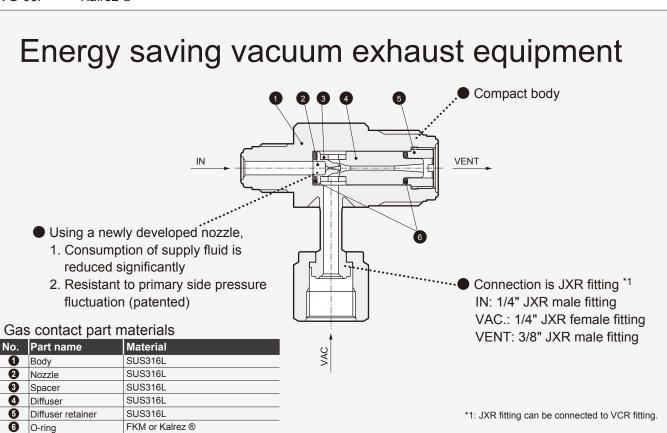
Nozzle diameter: ø0.5



 Model No.
 O-ring material

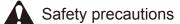
 VG-05F
 FKM

 VG-05P
 Kalrez ®



Specifications

Descriptions	VG
Working fluid	Inert gas/process gas
Fluid temperature °C	0 to 80
Supply fluid	Nitrogen, dry air
Supply fluid pressure MPa	0.4 to 0.6 (operating)
Supply fluid consumption {/min (ANR)	16 or less *1
Achieved vacuum level kPa (abs)	13.3 or less
Discharge rate	6 *1 *2
External leakage Pa·m³/s (He)	2.8 x 10 ⁻¹² or less
Proof pressure MPa	3
Ambient temperature °C	0 to 80
Connection	IN: 1/4" JXR male fitting (can be connected to VCR fitting)
	VAC.: 1/4" JXR female fitting (can be connected to VCR fitting)
	VENT: 3/8" JXR male fitting (can be connected to VCR fitting)
Weight kg	0.2



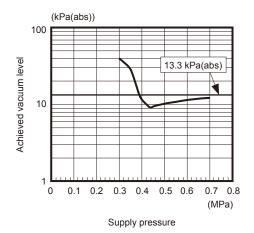
Read the Safety Precautions on Intro Page 9 and pages 55 to 56 to ensure correct and safe use of the product.

^{*1:} When pressurized at 0.5 MPa (operating)

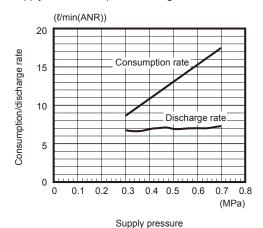
^{*2:} When the working fluid is air

Characteristic curve

Achieved vacuum level

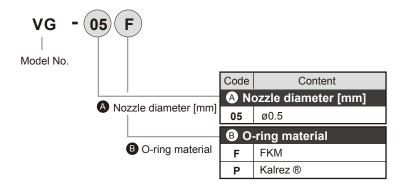


Supply fluid consumption/discharge rate



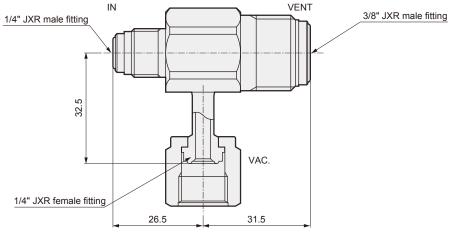
Note: Achieved vacuum level with the characteristics described above produces abnormal noise (soft clicking sound) at supply pressure (around 0.4 MPa) just before reaching the peak value. When this abnormal noise occurs, the characteristics become unstable and operation becomes louder. Increase the supply pressure within the specification range, as it may affect the sensor, etc., and cause trouble.

How to order



Dimensions

● VG-05*



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Flow rate adjusting valve Piston check valve



Flow rate adjusting valve



- Gas contact part is all metal Body (SUS316L) Diaphragm (Ni-Co alloy)
- Max. Cv 2 types: 0.03, 0.2
- Changes up to max. Cv with about 10 turns of the handle.
- Connection

 JXR male fitting, JXR female fitting, and double barbed fitting are available.

Piston check valve



- Valve seat material uses Kalrez ®
- Other gas contact parts use SUS316L
- Cracking pressure is 2.3 kPa.
- Connection

 JXR male fitting and double barbed fitting are available.