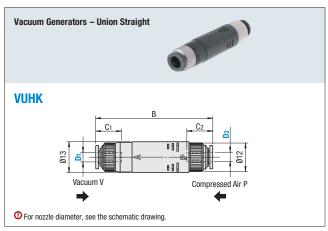
Vacuum Generators / Vacuum Pressure Sensors

Union Straight / Square Union / Union

Tubes/Fittings/Suction Components/Nozzles



Part Num	ber	_	Nozzle Dia.	Nozzle	В	C,	C ₂	Ultimate Vacuum	Suction Flow Rate	Flow Consumption	Mass	
Type	D ₁	D ₂	Nominal	Dia. (mm)	В	U ₁	U ₂	(-kPa)	(ℓ/min (ANR))	(ℓ/min (ANŘ))	(g)	
	_	4	5	0.5	49.3	-1-1	11	90	7	11.5	18.5	
VUHK	4		7	0.7	56.1	11 11	92	12.5	23	20		
VUHK	6	_	5	0.5	51.2	117	11 7	90	7	11.5	17.5	
	0	ь	7	0.7	57.7	11.7	11.7	92	12.5	23	18.5	



Vacuum Generator (VUHK)

O Larger nozzle diameter provides more suction flow and shortens time required to vacuum inner volume from the generator to work. In this case, however, air consumption is larger

Principle of Vacuum Generation Compressed air introduced draws secondary air through its viscosity, generating vacuum

VUSS

Mass (g)

48

В

15

Α

30

29.2 14.6

Electrical Circuit

V+ (Brown)

SW OUT

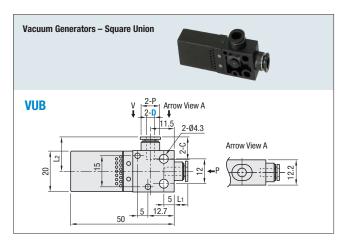
(Black) COM (Blue)

Vacuum Generator (VUB)

Approx. 3000

For 2-M3 Mounting

Hole of Flash Screv

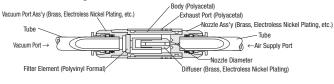


Part N	umber	Nozzle	Р	С			Operating			Flow	Mass	
Туре	D	Dia. (mm)		·	L ₁	L ₂	Pressure (Mpa)	Vacuum (-kPa)	(ℓ/min (ANR))	Consumption (l/min (ANR))	(g)	
VIIID	4	0.5	9	11	6.6	16.6	0.5	90	7	11.5	18	
VUB	6	0.7	10.5	11.6	7	17	0.5	93	13	23	18.5	

Specification

Applicable Fluid	Air
Operating Temperature Range	0-60°C
Operating Pressure Range	0.15-0.7 MPa
Rated Supply Pressure	0.5 MPa

Structure Diagram



Cautions

- Dusts on work material may cause damage to the vacuum generator.
- Use in combination with the vacuum filter on the next page.

Specification of Sensor Head

Applic	able Fluid	Compressed Air					
Pressi	ure Detection Method	Diffusion Semiconductor Pressure Switch					
Power	Supply	DC10.8-30V (Ripple Included)					
Power	Consumption	20 mA or less (at DC24V, No Load)					
Opera	ting Press. Range	-100-0 kPa					
Max. I	Pressure	200 kPa					
Storaç	ge Temp. Range	-20–70°C (Atmospheric Pressure, Humidity 60% or less)					
0pera	ting Temp. Range	0-60°C (Not to be frozen)					
0pera	ting Humidity Range	35-85% (Not to be frozen)					
Protec	ction Structure	IEC Standards (conforming to IP40)					
	No. of Pressured Positions	1					
	Switch Output	NPN Open Connector Output 30V80m or less Residual Voltage 0.8V or less Residual Voltage 0.8V or Less					
Switch Output	Operation Indicator	N.O. (Red LED On at or above set pressure)					
output	Operating Difference	Fixed (2%F.S. or less)					
	Operation Accuracy	±3% F.S. Max. (at Ta = 25°)					
	Response	Approx. 1 m. sec					
	Set Pressure Range	-100-0 kPa					

Part Number

MISUMI

11

11.6

Application

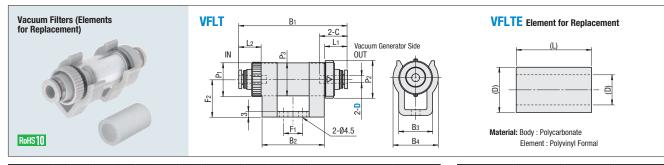
Vacuum Pressure Sensor

RoHS10

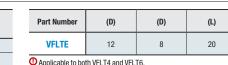
3536

Vacuum Filters

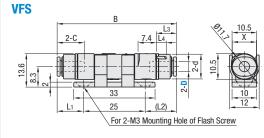
Elements for Replacement

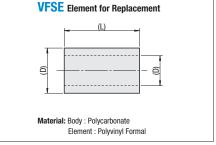


Part Number			В	_ n	п	١.		_	_	_		-	-	Filtration Area	Mass	Part Number	(D)	
Туре	D	B ₁	D ₂	D ₃	B ₄	L ₁	L ₂	P ₁	P ₂	P ₃	٠ ا	F1	F ₂	(cm²)	(g)		(-)	H
WELT	4	58	00	10	0.4	11.9	11.9	10.0	00	00 47.5	14.9	10	10 20	7.5	18	VFLTE	12	
VFLT	6	60	33	18	24	13	13	18.2	20 17.5	7.5	16				19	Applicable to bo	th VFLT4 and VFL	T6

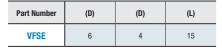








Part Numb	er	В	С		4.			4	v	Element	Filtration Area	Mass
Туре	D	В	U	L ₁	(L ₂)	L ₃	L ₄	u	۸	Length	(cm²)	(g)
VEC	4	48.5	11	10.8	12.7	8.2	4	10	9.8	15	0.0	5.1
VFS	6	53.4	11.6	13.2	15.2	10.6	4.5	10.5	11.8	15	2.8	6





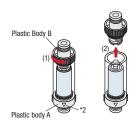




Element Replacements

How to Remove

- (1) Turn plastic body B 45° counterclockwise.*
- (2) Pull out plastic body B.
- *Do not turn the plastic body B beyond 45°. It may damage the plastic body.

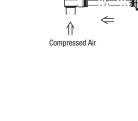


Specifications

Applicable Fluid	Air
Operating Temperature Range	0-60°C
Operating Pressure Range	-100-0kPa
Filtration Accuracy	5 μm

How to Lock

- (1) Press-fit plastic body B completely to plastic body A. Be sure that the lug of plastic body A aligns with the key slot in plastic body B.
- (2) Turn plastic body B 45° clockwise*1 to lock.
- * 1. Do not turn the plastic body B beyond 45°. It may damage the plastic body
- When locking, be sure that the lug of plastic body A comes to the center of the hole in plastic body B.



Piping Example

Piping between Vacuum Generator and Vacuum Pad removes dusts entered from Pad and prevent Generator from failures.

