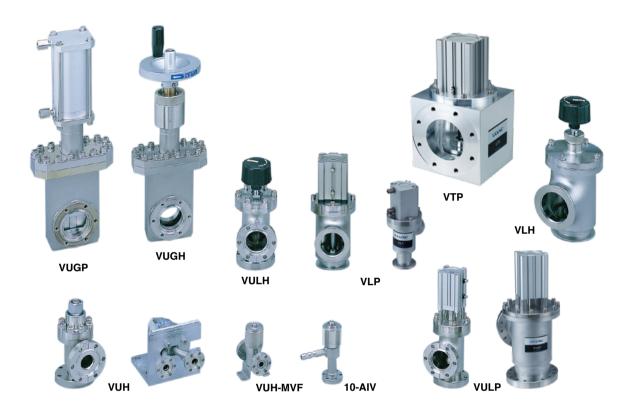
Vacuum Valve Series

ULVAC, Inc.'s vacuum valve employs the vacuum technology of the vacuum specialized manufacturer accumulated through many years of experience.

Please use ULVAC, Inc.'s vacuum valve, including L type valve and gate valve, which is compatible with all atmospheric pressure to ultra high vacuum ranges and conditions.



Features

· Highly reliable

Designed to exhibit maximum exhaust rate of the vacuum pump having large conductance upon disk opening and less leak rate.

Various lineups

ncludes I (angle) type valve, gate type valve, variable leak type valve.

Applicable in all vacuum conditions from atmospheric pressure to ultra high vacuum.

Main body material types are SS (soft steel), stainless steel, aluminum.

Valves connection flange are vacuum flange, quick coupling flange, CF (UFC) flange and so on.

Disk seal materials are nitrile rubber, fluorine rubber, metal and polymide resin.

With theselineups, various proposals arae possible that matches with the customer needs.

Two operating types

Manually driven and compressed air driven.

· Reverse pressure specification

100A or less are compatible as standard. (Revere pressure differential: within 0.1MPa)

compatibility 150A or more are compatible as option

· Baking out, customizing, and so on

Applications

- vacuum exhaust line for sputter apparatus and evaporation apparatus
- vacuum exhaust line for various heat processing furnace
- · vacuum exhaust line for vacuum drying equipment and freeze-drying equipment
- · vacuum exhaust line for leak tester
- · vacuum exhaust line for various other vacuum equipment

Specifications		

						- 0	Scomoations	,				
	Appl	icable pre	essure rar	nge								
		10 ⁻⁵ Pa	10 ⁻⁷ Pa	10 ⁻⁹ Pa	Walas Las	Drive	Mada and an alasta	Axis seal	Bonnet seal	Disk seal	Maximum bakeout	Reverse pressure
	Atmospheric pressure	10 ⁻⁷ Torr	7.5x10 ⁻¹⁰ Torr	7.5x10 ⁻¹¹ Torr	Valve type	metnoa *2	Main unit material	method	material	material	temperture (C, °F)	(pressure differential: 0.1MPa) compatiblity *4
		10 ⁻⁷ mbar	10 ⁻⁹ mbar	10 ⁻¹¹ mbar								
VLH-U					L model valve	Н	SS400 + nickel plating	O-ring	Nitrile rubber	Nitrile rubber	60, 140	0
VLH-U□S					L model valve	Н	SUS304	O-ring	Flourine rubber	Flourine rubber	120, 248	0
VLP-U□					L model valve	Р	SS400 + nickel plating	O-ring	Nitrile rubber	Nitrile rubber	60, 140	0
VLP-U□S					L model valve	Р	SUS304	O-ring	Flourine rubber	Flourine rubber	120, 248	0
VLP-U□A					L model valve	Р	Aluminum alloy	O-ring	Flourine rubber	Flourine rubber	120, 248	0
VTP-U□A					T model valve	Р	Aluminum alloy	O-ring	Flourine rubber	Flourine rubber	120, 248	0
VLH-US-□KF				L model valve	Н	SUS304	O-ring	Flourine rubber	Flourine rubber	120, 248	0	
VLP-US-□KF					L model valve	Р	SUS304	O-ring	Flourine rubber	Flourine rubber	120, 248	0
VAH-U□				Gate model valve	Н	Aluminum alloy	O-ring	Nitrile rubber	Nitrile rubber	60, 140	0	
VAP-U□				Gate model valve P		Aluminum alloy	O-ring	Nitrile rubber	Nitrile rubber	60, 140	0	
VFR- □					Pendulum valve	Р	Aluminum casting	O-ring	Flourine rubber	Flourine rubber	120, 248	0
VULH-□F					L model valve	Н	SUS304	Bellows	Flourine rubber	Flourine rubber	150, 302	0
VULH-□KF					L model valve	Н	SUS304	Bellows	Flourine rubber	Flourine rubber	150, 302	0
VULP-□F					L model valve	Р	SUS304	Bellows	Flourine rubber	Flourine rubber	150, 302	0
VULP-□KF					L model valve	Р	SUS304	Bellows	Flourine rubber	Flourine rubber	150, 302	0
VUGH-□F					Gate model valve	Н	SUS304	Bellows	Flourine rubber	Flourine rubber	150, 302	0
VUGP-□F					Gate model valve	Р	SUS304	Bellows	Flourine rubber	Flourine rubber	150, 302	0
10AIV					Leak valve	Н	SUS304	O-ring	Flourine rubber	Flourine rubber	150, 302	0
VULH-□CM					L model valve	Н	SUS304	Bellows	Metal	Flourine rubber	150, 302 (200, 392)	0
VULP-□CM					L model valve	Р	SUS304	Bellows	Metal	Flourine rubber	150, 302 (200, 392)	0
VUGH-□CS					Gate model valve	Н	SUS304	Bellows	Metal	Flourine rubber	150, 302 (200, 392)	0
VUGP-□CS					Gate model valve	Р	SUS304	Bellows	Metal	Flourine rubber	150, 302 (200, 392)	0
VUH					Other	Н	SUS304	Bellows	Metal	Metal	200, 392 (250,482)	0
VUH-MVF					Other	Н	SUS304	Bellows	Welded structure	Polyimide resin	200, 392	0
VLV-3D					Variable leak valve	Н	SUS304	Bellows	Welded structure	Metal	150, 302	0

^{*1} \square : A(mm) or B(inch)

^{*4} VUGP-200,250: Incompatible with reverse pressure. (Vacuum/high vacuum valve compatible are 100A or less. More than 6B are compatible as an option.)

											(Con	nec	tio	ı Mo	ethe	od													
Flange	Vacuum flange													Fla	ange	coupl	ing	UFC flange *1												
Model	VF										NW	(KF)		034	070	070 070	114 152	152	2 203 253	306	other									
A (mm)	20	25	40	50	65	80	100	150	200	250	300	350	400	500	550	900	1300	16	25	40	50	10	25	40	65	100	150	200	250	Oli lei
B (inch)	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	20	22	36	52	3/4	1	1 1/2	2	3/8	1	1 1/2	2 1/2	4	6	8	10	
VLH-U□	•	•	•	•		•	•	\Diamond	\Diamond	\Diamond																				
VLH-U□S	♦	•	•	•		•	•	\Diamond	\Diamond	\Diamond																				
VLP-U□	♦	•	•	•		•	•	\Diamond																						
VLP-U□S	♦	•	•	•		•	•	\Diamond																						
VLP-U□A						\Diamond	\Diamond	\Diamond																						
VTP-U□A						\Diamond	\Diamond	\Diamond																						
VLH-US-□KF																			•	•	•									
VLP-US-□KF																			•	•	•									
VAH-U□							\Diamond	\Diamond																						
VAP-U□							\Diamond	\Diamond																						
VFR- □													\Diamond	\Diamond																
VULH-□F		•	•		•		•	\Diamond	\Diamond	\Diamond																				
VULH-□KF																		•	•	•										
VULP-□F		•	•		•		•	\Diamond	\Diamond	\Diamond																				
VULP-□KF																		•	•	•										
VUGH-□F			•		•		•	\Diamond	\Diamond	\Diamond																				
VUGP-□F			•		•		•	\Diamond	\Diamond	\Diamond																				
10AIV																						•								•
VULH-□CM																						•	•	•	•	•	\Diamond	\Diamond	\Diamond	
VULP-□CM																						•	•	•	•	•	\Diamond	\Diamond	\Diamond	
VUGH-□CS																						ĺ		•	•	•	\Diamond	\Diamond	\Diamond	
VUGP-□CS																								•	•	•	\Diamond	\Diamond	\Diamond	
VUH																						•	•	•	\Diamond					
VLV-3D																						•		Ė						

◆: Standard stock

 \diamondsuit : Made to order

^{*2} H: Manual, P: Compressed air drive

^{*3 ():} Valve closed. Cylinder part should less than 60°C (140°F)

^{*1} UFC are ULVAC standard stainless steel knife-edge metal seal flanges.