

Specification

VL ^A / _B R series			Vacuum Angle Valve / Single Acting(N.C.)										
			Bellows STEM seal (A: SUS316L / B: AM350)										
Valve port	SIZE		16	25	40	50	63	80	100	160	200	250	320
Flange Standards	ISO-KF	KF	●	●	●	●	●	●	●	×	×	×	×
	ISO-K	KQ	×	×	×	×	●	●	●	×	×	×	×
	ISO-F	KC	×	×	×	×	●	●	●	×	×	×	×
Valve Actuating type			Single acting cylinder										
Fluid			Vacuum in an inert gas system										
Operating temperature °C			≤150(Actuator: Max.60°C)										
Operating pressure Pa (Abs)			1×10 ⁻⁶ ~ to atmospheric pressure										
Conductance L / s ^(Note 1)			7	14	42	95	150	250	520	-	-	-	-
Leakage Pa·m ³ /s	Inside		Standard material (FKM) 1.0×10 ⁻¹⁰ at room temperature (excluding gas permeation)										
	Outside		Standard material (FKM) 1.0×10 ⁻¹¹ at room temperature (excluding gas permeation)										
Main material			Body: SUS304, Bellows: [SUS316L / AM350] Main parts: SUS304, AL-6061, FKM [Standard seal]										
Operating pressure MPa (G)			0.4~0.7										
Operation Port Port Size			PT 1/8"(Rc1/8")										
Compressed air consumption(Q0.5MPa)	cc(mL) ^(Note 2)		12	12	23	49	94	110	200	-	-	-	-
Open stroke			14	14	18	25	30	35	40	-	-	-	-
Seal distance (A-Value)			40	50	65	70	88	90	108	-	-	-	-
w/Heater Spec.	Size		016	025	040	050	063	080	100	-	-	-	-
Type: Silicon Rubber Heater Jacket	Electric Capacity		25W	25W	30W	45W	70W	90W	150W	Not Available			

Temperature Max.: Amb.~150°C / TC.sensor

Control: K-Type / Electric power: 220VAC

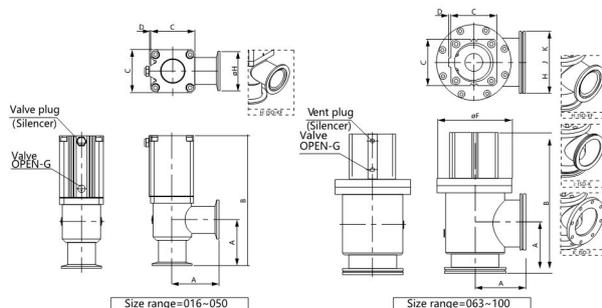
(Note 1) Conductance is represented by "molecular flow" of elbow of the same dimension. **(Note 2)** One stroke condition. (Open & Close), The close side port has a silencer installed

▶ If heater is not included (not installed), type "W" at the end of model name

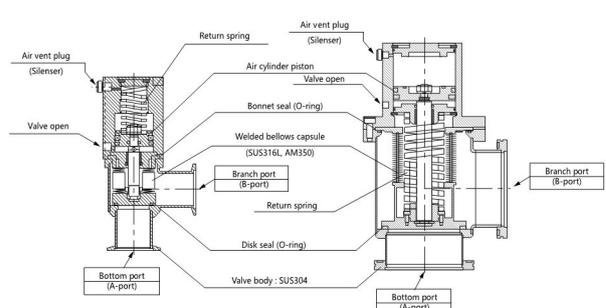
External dimension table

SIZE	16	25	40	50	63	80	100
A	40	50	65	70	88	90	108
B	138.5	146.5	184	205	244	257.5	302.5
C	48	48	60	69	77	77	98
D	3	3	2	2	5	5	5
F	-	-	-	-	Ø119	Ø119	Ø159
G	PT 1/8"						
H	Ø30	Ø40	Ø55	Ø75	Ø95	Ø114	Ø134
J	-	-	-	-	Ø95	Ø110	Ø130
K	-	-	-	-	Ø130	Ø145	Ø165

Dimensional drawing



Internal detail



How to Order

Valve **V(A)B(C)** - ① ② - ③ - ④ - ⑤ ⑥ - (⑦)

Model VLAP - □□□ □□-□□ - □ - □□

Series	Body shape	V(L)B(C)	L	L-type(Angle valve) 304SS Body																					
		V(Y)B(C)	Y	Y-type(Inline valve) 304SS Body																					
	Stem Seal	V(A)A(C)	A	316L Bellows STEM Seal																					
		V(A)B(C)	B	AM350 Bellows STEM Seal																					
		V(A)S(C)	S	O-Ring STEM Seal																					
	Operation type	V(A)P	P	Double Acting (Pneumatic)																					
		V(A)S	S	Single Acting (N.C.)																					
		V(A)M	M	Manual operation																					
		V(A)Q	Q	Double Acting, w/Heater (Pneumatic)																					
		V(A)R	R	Single Acting, w/Heater (N.C.)																					
		V(A)H	H	Double Acting, Heating model(Pneumatic)																					
		V(A)K	K	Double Acting, Heating model, w/Heater(Pneumatic)																					
		V(L)D	D	Double Acting, w/Soft start bypass valve(Pneumatic)																					
		V(L)T	T	Single Acting, w/Soft start bypass valve(N.C.)																					
V(L)X		X	Single Acting, w/Soft start integrated valve(N.C.)																						
Port flange	Valve size	①	□□□	016	025	040	050	063	080	100	160	200	250	320											
	Flange Spec.	②	□□ Specific	KF		KQ		KC		CF		JF													
				ISO-KF		ISO-K		ISO-F		ISO-CF		JIS VF													
Seal material (Disc, Bonnet, Stem)	③	(Note 1)	□□	N1		ED		S1		FS		R1		R2		R3		P1		P2		U1			
				FKM		NBR		EPDM		VMQ		FFKM		Chemraz®		Chemraz®		Chemraz®		Kalrez®		Kalrez®		ULTIC ARMOR®	
				SS592		SS630		SSE38		4079		9100		UA4640											
				Im case of FFKM (FS), please specify a separate material.																					
CDA port position	④	(Note 2)	□ Branch port Lower part	None				E				S				W									
				Rear				Right				Left				Same Direction									
Sensor	⑤	□	0				1				2														
			None				1 EA				2 EA														
Solenoid or Heater Mounting	⑥	□	C		N		P		H																
			W8H(TPC)		W9HN(TPC)		W9HP(TPC)		D-*****[SMC]																
Valve	⑦	(G) or (W)	G: Mounting Solenoid valve(Applicable Model) / W:Heater exclude (Not installed)																						
Modified special			[] ※Please consult our technical department.																						
w/Solenoid Valve Spec.	size range	016	025	040	050	063	080	100	160	200	250	320													
Single acting	[V(A)S]	RDV412-5DZ-01				RDS301-5DZ-01A				(Note 4)	Not Available														
Double acting	[V(A)P]	DS2120-5HZ-01								RDS5120-5DZ-03															
Solenoid valve maker: TPC / Electric power: DC24V																									
w/Heater Spec.	size range	016	025	040	050	063	080	100	160	200	250	320													
Type: Silicon Rubber Heater	25W		25W		30W		45W		70W		90W		150W		Not Available										
Temperature Max.: Amb.~150°C / TC.sensor control: K-Type / Electric power: AC220V																									

(Note 1) For standard products, use sealing material of vacuum secretion as a FKM (flammable O-ring).

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(Note 2) Applies only to the double and single operating valves (except VABM-series)

(Note 3) Specifications that are partially changed in standards or standards other than standard products can be specially designed to meet the customer's needs, so please consult with them.

(Note 4) Solenoid valve specification: RDS301-5DZ-02A