

Specification

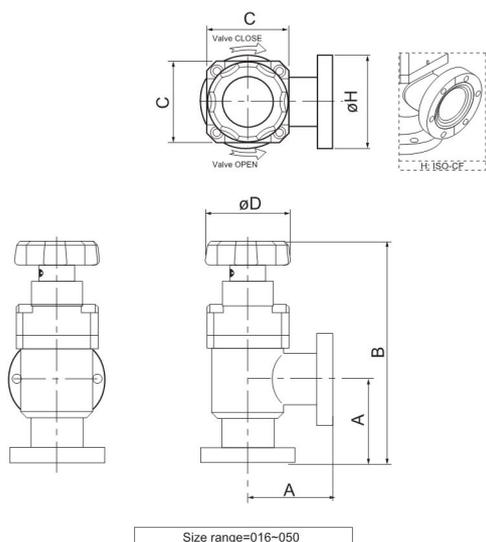
VLAM-CF series			Vacuum Angle Valve / Manually										
			Bellows STEM seal (A: SUS316L)										
Valve port	SIZE		16	25	40	50	63	80	100	160	200	250	320
Flange Standards	ISO-CF	CF	●	●	●	●	●	×	●	●	×	×	×
			1.33CF	2.12CF	2.75CF	3.38CF	4.5CF	×	6.0CF	8.0CF	×	×	×
Valve Actuating type			Manual acting										
Fluid			Vacuum in an inert gas system										
Operating temperature °C			≤120										
Operating pressure Pa (Abs)			1×10 ⁻⁶ ~ to atmospheric pressure										
Conductance L / s ^(Note 1)			7.4	14	44	88	125	-	415	1,180	-	-	-
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) Main parts: SUS304, AL-6061, FKM (Standard seal)										
Open stroke			14	14	18	25	30	-	40	60	-	-	-
Number of Handle rotation			7	7	9	12.5	7.5	-	10	12	-	-	-
Seal distance (A-Value)			38	50	63	75	105	-	135	167	-	-	-

(Note 1) Conductance is represented by "molecular flow" of elbow of the same dimension.

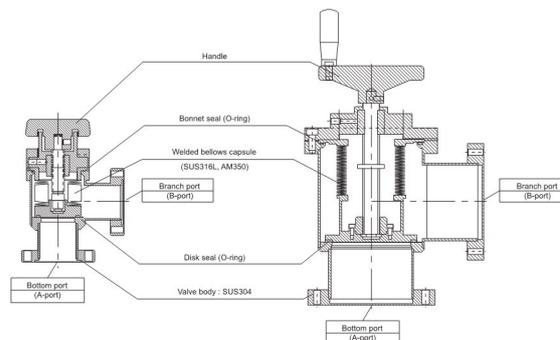
External dimension table

SIZE	16	25	40	50	63	80	100	160
A	38	(50)	63	(75)	105	-	135	167
B	136.5	146.5	182	210	261	-	329.5	444
C	48	48	60	69	-	-	-	-
D	∅63	∅63	∅63	∅63	∅100	-	∅125	∅200
F	-	-	-	-	∅119	-	∅159	∅208
H	∅33.8	∅54	∅69.9	∅85.7	∅114.3	-	∅152.4	∅203.2

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			
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.					
			None E S W		Rear Right Left Same Direction									
			None E S W		Rear Right Left Same Direction									
			None E S W		Rear Right Left Same Direction									
CDA port position	④ (Note 2)	□ Branch port Lower part	None E S W		Rear Right Left Same Direction									
			None E S W		Rear Right Left Same Direction									
Sensor	⑤	□	0 1 2		None 1 EA 2 EA									
	⑥	□	C N P H		W8H(TPC) W9HN(TPC) W9HP(TPC) D-*****[SMC]									
Solenoid or Heater Mounting	⑦	(G) or (W)	G: Mounting Solenoid valve(Applicable Model) / W:Heater exclude (Not installed)											
Valve	(Note 3)		VLAP- / VLBP- / VLAS- / VLBS- / VLAD- / VLBD- / VLAT- / VLSP- / VLSS- / VLBT- / VYAP- / VYAS- / VYBP- / VYBS- / VYSP- / VYSS-											
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]	Solenoid Valve Spec.	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℃ / 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