

**Specification**

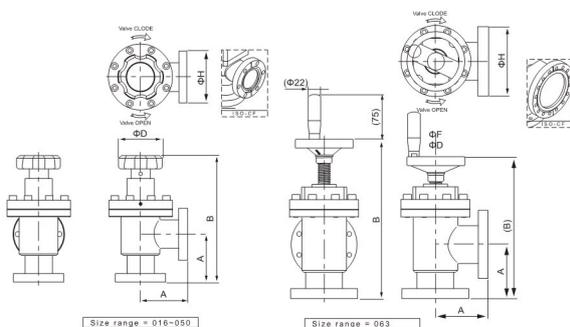
VLAZ series			Vacuum Angle Valve / Manually / Bonnet metal seal type										
			Bellows STEM seal (A: SUS316L)										
Valve port	SIZE		16	25	40	50	63	80	100	160	200	250	320
Flange Standards	ISO-CF	CF	●	●	●	●	●	×	×	×	×	×	×
			1.33CF	2.12CF	2.75CF	3.38CF	4.5CF	×	×	×	×	×	×
Valve Actuating type			Manual acting										
Fluid			Vacuum in an inert gas system										
Operating temperature °C			≤120										
Operating pressure Pa (Abs)			1×10 <sup>-6</sup> ~ to atmospheric pressure										
Conductance L / s <sup>(Note 1)</sup>			5	13	42	75	145	-	-	-	-	-	-
Leakage Pa·m <sup>3</sup> /s	Inside		Standard material (FKM) 1.0×10 <sup>-10</sup> at room temperature (excluding gas permeation)										
	Outside		Standard material (FKM) 1.0×10 <sup>-11</sup> at room temperature (excluding gas permeation)										
Main material			Body: SUS304, Bellows: (SUS316L) Main parts: SUS304, AL-6061, FKM (Standard seal), OFHC Bonnet seal										
Open stroke			14	14	18	25	30	-	-	-	-	-	-
Number of Handle rotation			7	7	9	12.5	7.5	-	-	-	-	-	-
Seal distance (A-Value)			54.6	54.6	65	86.4	90.5	-	-	-	-	-	-

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

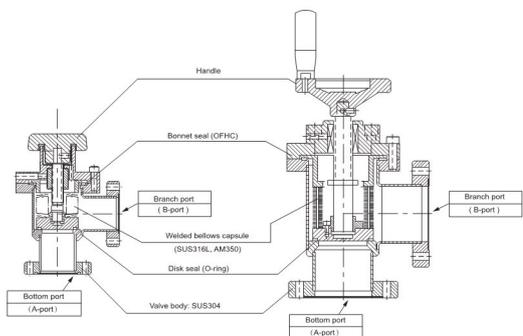
**External dimension table**

SIZE	16	25	40	50	63
<b>A</b>	54.6	54.6	65	86.4	90.5
<b>B</b>	164	162	197	233	247
<b>C</b>	Ø63	Ø63	Ø63	Ø63	Ø100
<b>D</b>	Ø72	Ø72	Ø88	Ø99	Ø119
<b>F</b>	PT 1/8"				
<b>G</b>	Ø33.8	Ø54	Ø69.9	Ø85.7	Ø114.3
<b>H</b>	Ø33.8	Ø54	Ø69.9	Ø85.7	Ø114.3

**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		
		0 1 2	None 1 EA 2 EA		
		C N P H	W8H(TPC) W9HN(TPC) W9HP(TPC) D-*****(SMC)		
Sensor ⑤ ⑥	□	0 1 2	None 1 EA 2 EA		
	□	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