

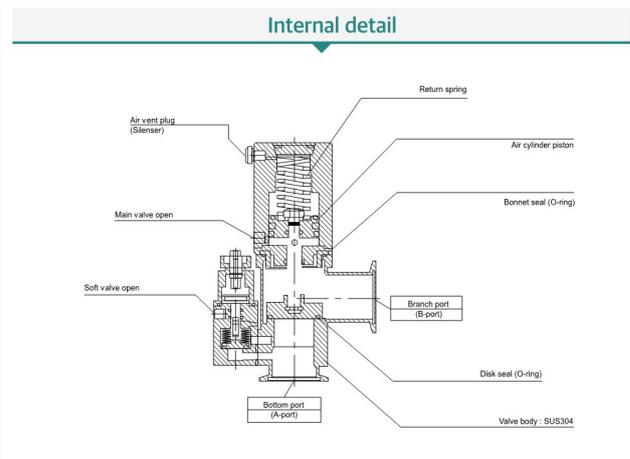
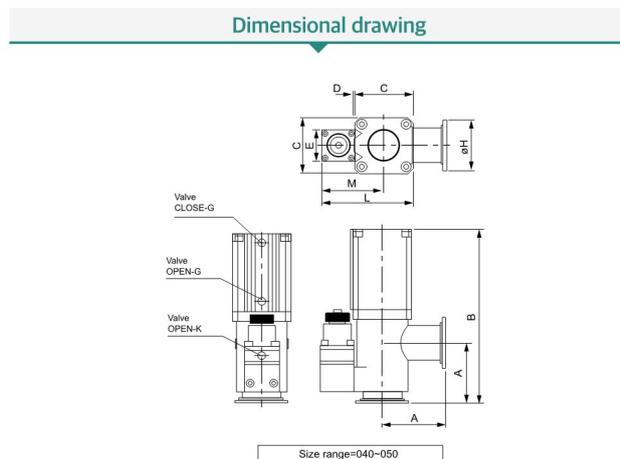
Specification

VLST series			Vacuum Angle Valve / Single Acting / w/Soft-Roughing valve										
			O-Ring STEM seal (S: FKM)										
Valve port	SIZE		16	25	40	50	63	80	100	160	200	250	320
Flange Standards	ISO-KF	KF	×	×	●	●	×	×	×	×	×	×	×
	ISO-K	KQ	×	×	×	×	×	×	×	×	×	×	×
Valve Actuating type			Double acting cylinder										
Fluid			Vacuum in an inert gas system										
Operating temperature °C			≤ 120										
Operating pressure Pa (Abs)			1×10 ⁻⁵ ~ to atmospheric pressure										
Conductance L / s ^(Note 1)			-	-	42	95	-	-	-	-	-	-	-
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)		-	-	45	100	-	-	-	-	-	-	-
Open stroke			-	-	18	25	-	-	-	-	-	-	-
Seal distance (A-Value)			-	-	65	70	-	-	-	-	-	-	-
Soft Roughing Valve Specification (N.C.)			-	-	BPSV	BPSV							
Operating pressure MPa (G)			0.4~0.7										
Operation Port Port Size			PT 1/8" (Rc1/8")										

(Note 1) Conductance is represented by "molecular flow" of elbow of the same dimension. (Note 2) One stroke condition. (Open & Close)

External dimension table

SIZE	16	25	40	50
A	-	-	65	70
B	-	-	184	205
C	-	-	60	69
D	-	-	2	2
E	-	-	35	35
F	-	-	-	-
G	-	-	PT 1/8"	PT 1/8"
H	-	-	Ø55	Ø75
J	-	-	-	-
K	-	-	PT 1/8"	PT 1/8"
L	-	-	94	102.5
M	-	-	64	68



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® 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