

Specification

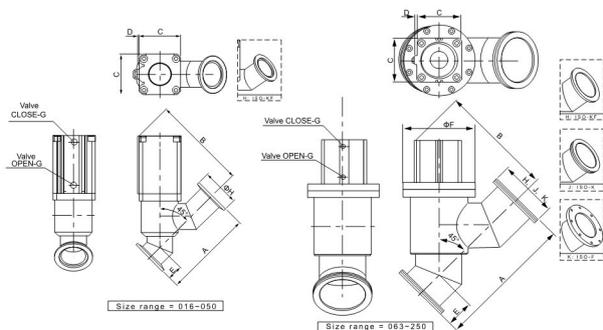
WYSP series			Vacuum Inline Valve / Double Acting												
			O-Ring STEM seal (S: FKM)												
Valve port	SIZE		16	25	40	50	63	80	100	160	200	250	320		
Flange Standards	ISO-KF	KF	●	●	●	●	●	●	●	●	×	×	×		
	ISO-K	KQ	×	×	×	×	●	●	●	●	●	●	×		
	ISO-F	KC	×	×	×	×	●	●	●	●	●	●	×		
Valve Actuating type			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)			4.6	11	35	62	106	152	304	778	1,640	2,630	-		
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")					PT 1/8"(Rc1/8")							
Compressed air consumption(∅0.5MPa)			cc(mL) ^(Note 2)		22.5	22.5	45	100	185	210	400	940	1,490	2,700	-
Open stroke			14	14	18	25	30	35	40	60	95	110	-		
Seal distance [A-Value]			101.6	106.7	130	117.8	210	250	305	420	560	650	-		

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

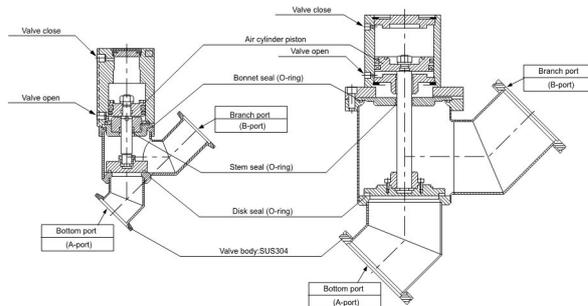
External dimension table

SIZE	16	25	40	50	63	80	100	160	200	250
A	101.6	106.7	130	117.8	210	250	305	420	560	650
B	111.5	111	138.5	162	191	209	256	352	448	543
C	48	48	60	69	77	77	98	117	117	142
D	3	3	2	2	5	5	5	6.5	6.5	11
E	16.3	18.7	21.5	27.5	40	50	60	90	120	132
F	-	-	-	-	∅119	∅119	∅159	∅208	∅258	∅318
G	PT 1/8"	PT 3/8"	PT 3/8"	PT 3/8"						
H	∅30	∅40	∅55	∅75	∅95	∅114	∅134	∅190	-	-
J	-	-	-	-	∅95	∅110	∅130	∅180	∅240	∅290
K	-	-	-	-	∅130	∅145	∅165	∅225	∅285	∅335

Dimensional drawing



Internal detail



How to Order

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

Series	① Body shape	VL(B)C	L	L-type(Angle valve) 304SS Body											
		VY(B)C	Y	Y-type(Inline valve) 304SS Body											
	② 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											
	③ Series	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.)											
		④ Operation type	V(A)H	H	Double Acting, Heating model(Pneumatic)										
			V(A)K	K	Double Acting, Heating model, w/Heater(Pneumatic)										
			VL(D)	D	Double Acting, w/Soft start bypass valve(Pneumatic)										
			VL(T)	T	Single Acting, w/Soft start bypass valve(N.C.)										
VL(X)			X	Single Acting, w/Soft start integrated valve(N.C.)											
VL(W)	W		Bonnet gasket seal type, Double Acting (Pneumatic)												
VL(Y)	Y	Bonnet gasket seal type, Single Acting (N.C.)													
VL(Z)	Z	Bonnet gasket seal type, Manual operation													
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							
Solenoid or Heater Mounting ⑥	□	C	N			P			H						
	□	W8H(TPC)	W9HN(TPC)			W9HP(TPC)			D-*****[SMC]						
Valve (Note 3)	(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]	Solenoid Valve Spec.	RDV412-5DZ-01					RDS301-5DZ-01A			(Note 4)	Not Available				
Double acting [V(A)P]	Solenoid Valve Spec.	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