

Specification

VYSQ 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			≤150[Actuator: Max.60°C]										
Operating pressure Pa (Abs)			1×10 ⁻⁵ ~ to atmospheric pressure										
Conductance L / s ^[Note 1]			4.6	10	35	62	106	152	304	-	-	-	-
Leakage Pa·m³/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(at0.5MPa)	cc(mL) ^[Note 2]	22.5	22.5	45	100	185	210	400	-	-	-	-	
Open stroke			14	14	18	25	30	35	40	-	-	-	-
Seal distance (A-Value)			101.6	106.7	130	117.8	210	250	305	-	-	-	-
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													

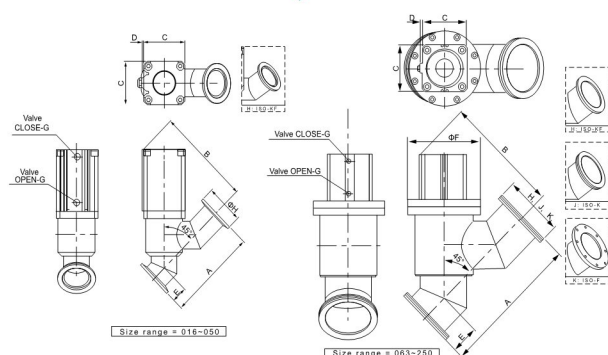
(Note 1) Conductance is represented by "molecular flow" of elbow of the same dimension. (Note 2) One stroke condition. (Open & Close)

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

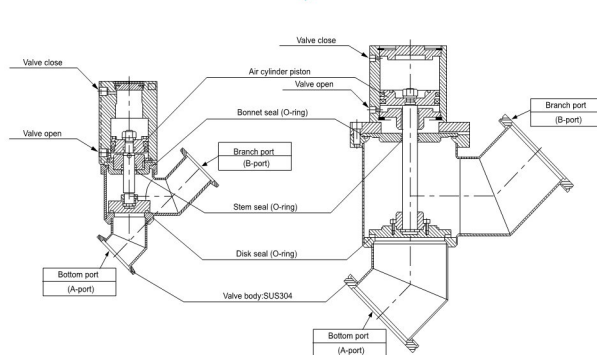
External dimension table

SIZE	16	25	40	50	63	80	100
A	101.6	106.7	130	117.8	210	250	305
B	111.5	111	138.5	162	191	209	256
C	48	48	60	69	77	77	98
D	3	3	2	2	5	5	5
E	16.3	18.7	21.5	27.5	40	50	60
F	-	-	-	-	Ø119	Ø119	Ø159
G	PT 1/8"	PT 1/8"	PT 1/8"	PT 1/8"	PT 1/8"	PT 1/8"	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 **VA@C** - ① ② - ③ - ④ - ⑤ ⑥ - (⑦)

Model VLAP - □□□ □□-□□ - □ - □□

Series	A Body shape	VLⒶC	L	L-type(Angle valve) 304SS Body																				
		VYⒶC	Y	Y-type(Inline valve) 304SS Body																				
	B Stem Seal	VAⒶC	A	316L Bellows STEM Seal																				
		VABⒶC	B	AM350 Bellows STEM Seal																				
		VASⒶC	S	O-Ring STEM Seal																				
	C Operation type	VAⒶP	P	Double Acting (Pneumatic)																				
		VAⒶS	S	Single Acting (N.C.)																				
		VAⒶM	M	Manual operation																				
		VAⒶQ	Q	Double Acting, w/Heater (Pneumatic)																				
		VAⒶR	R	Single Acting, w/Heater (N.C.)																				
		VAⒶH	H	Double Acting, Heating model(Pneumatic)																				
		VAⒶ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											
	CDA port position	④ (Note 2)	□ Branch port Lower part	Im case of FFKM (FS), please specify a separate material.																				
None				E		S		W																
Rear				Right		Left		Same Direction																
Sensor	⑤	□	0		1		2																	
	⑥	□	None		1 EA		2 EA																	
Solenoid or Heater Mounting	⑦	(G) or (W)	G: Mounting Solenoid valve(Applicable Model) / W:Heater exclude (Not installed)																					
			VLAP- / VLBP- / VLAS- / VLBS- / VLAD- / VLBD- / VLAT- / VLSP- / VLSS- / VLBT- / VYAP- / VYAS- / VYBP- / VYBS- / VYSP- / VYSS-																					
Valve	(Note 3)																							
Modified special			()																					
w/Solenoid Valve Spec.			size range		016	025	040	050	063	080	100	160	200	250	320									
Single acting	[VAⒶS]	Solenoid	RDV412-5DZ-01				RDS301-5DZ-01A				(Note 4)	Not Available												
Double acting	[VAⒶP]	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