

Specification

VY(^A / _B)P-G series			Vacuum Inline Valve / Double Acting										
			Bellows STEM seal (A: SUS316L / B: AM350)										
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 ⁻⁶ ~ to atmospheric pressure										
Conductance L / s ^(Note 1)			4.6	10	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 3/8" (Rc3/8")			
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	177.8	210	250	305	420	560	650	-
w/Heater Spec.	Size		016	025	040	050	063	080	100	160	200	250	-
Single acting	[VA@S]		RDV412-5DZ-01				RDS301-5DZ-01A			[Note 3]	Not Available		
Double acting	[VA@P]		DS2120-5HZ-01							RDS5120-5DZ-03			

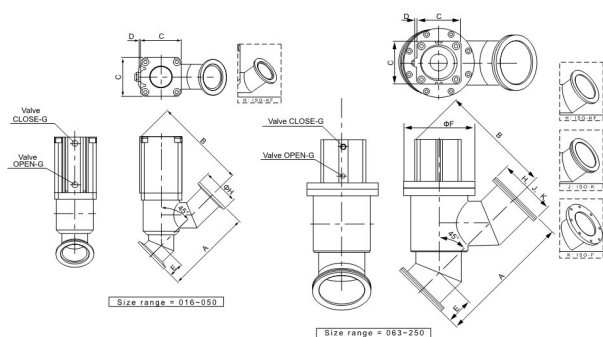
(Note 1) Conductance is represented by "molecular flow" of elbow of the same dimension. (Note 2) One stroke condition. (Open & Close)

(Note 3) Solenoid valve specification: RDS301-5DZ-02A

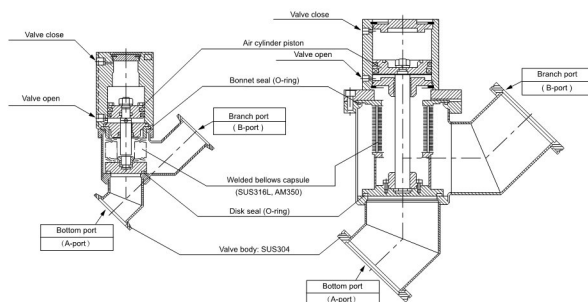
External dimension table

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	-	-	-	-	Ø119	Ø119	Ø159	Ø208	Ø258	Ø318
G	PT 1/8"	PT 1/8"	PT 1/8"	PT 1/8"	PT 1/8"	PT 1/8"	PT 1/8"	PT 3/8"	PT 3/8"	PT 3/8"
H	Ø30	Ø40	Ø55	Ø75	Ø95	Ø114	Ø134	Ø190	-	-
J	-	-	-	-	Ø95	Ø110	Ø130	Ø180	Ø240	Ø290
K	-	-	-	-	Ø130	Ø145	Ø165	Ø225	Ø285	Ø335

Dimensional drawing



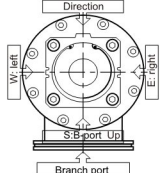
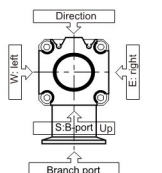
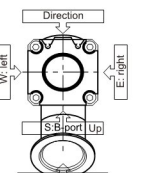
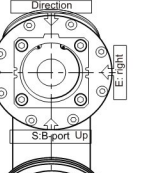
Internal detail



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		
			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						
															
Sensor	⑤	□	0		1		2								
	⑥	□	None		1 EA		2 EA								
Solenoid or Heater Mounting	⑦	(G) or (W)	C		N		P		H						
			W8H(TPC)		W9HN(TPC)		W9HP(TPC)		D-*****[SMC]						
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	[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