



For double cutoff compliant with low pressure (5 kPa) to intermediate pressure (25 kPa) specifications.
Equivalent to "DIN3394" groups A and B

Gas cutoff valve (slow open) VLA Series

- NC (Open when energized)
- City gas/LPG
- Port size: Rp1/2, Rp3/4, Rp1, Rp1¹/₄, Rp1¹/₂, Rp2, Rp2¹/₂

RoHS

Features

- For a wide range of gas pressures ranging from low pressure to intermediate pressure.
- Flow rate adjustment (calorie change) is easy, adjustable even after installation.
- Equipped with a robust dedicated terminal box with JIS standard conduit thread, making electrical wiring easy too.
- The DC driven actuator with rectifier has eliminated noise and coil burnout for safety.

Applications

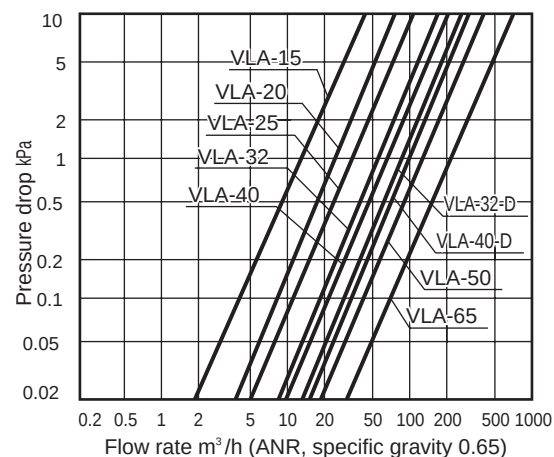
- Gas boilers
- Industrial furnaces
- Gas absorption water coolers/heaters
- Drying furnaces
- Hydrogen-related devices (only working fluid is hydrogen gas option)
- Others

Specifications

Item	VLA-15	VLA-20	VLA-25	VLA-32	VLA-40	VLA-50	VLA-65	VLA-32-D	VLA-40-D
Working fluid	City gas/LPG (hydrogen *)								
Working pressure kPa	0 to 25	0 to 20						0 to 5	
Flow rate ^{Specific gravity of city gas 0.65} _{△P=0.25kPa} m ³ /h (ANR)	6.9	14.8	18.7	30.3	34.5	70.0	112.6	45.0	49.0
Cv	4.6	9.9	12.5	20.4	23.2	47.1	75.8	30.3	33.0
Rated voltage V	100 AC ^{+10%} _{-15%} 200 AC ^{+10%} _{-15%}								
Frequency Hz	Common to 50 and 60								
Power consumption (apparent power)VA	31			50		73	74	50	
Ambient temperature °C	-20 to +60 (no freezing)								
Opening time s	Approx. 10								
Closing time s	1.0 or less								
Frequency cycles/min.	1 or less								
Flow rate adjustment%	20 to 100							-	
Start gas adjustment%	0 to 70								
Re-energizing intermission times	5.0 and over								
Mounting orientation	Vertical direction with the coil on top or horizontal direction with the coil horizontal								
Connection	Screw-in (Rp)								
Port size	1/2	3/4	1	1¼	1½	2	2½	1¾	1½
Weight kg	1.9	2.7	2.6	4.2	4.1	8.9	15.2	4.0	4.0
Proof pressure MPa	0.1								
Degree of protection	IPX4								

*1: Only the working fluid hydrogen gas option can be used.

Flow characteristics

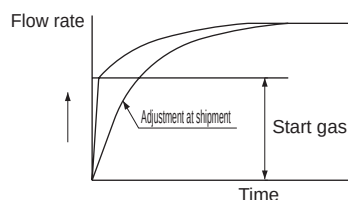


Reference: conversion coefficient

Converted flow rate = (flow rate in table) x (coefficient)

Gas	City gas (13A)	Propane	Butane	Hydrogen gas *1
Specific gravity (air = 1)	0.65	1.6	2.0	0.07
Coefficient	1.0	0.63	0.57	3.04

Opening operation characteristics



How to order

VLA - 40 - D P - AC100V

Model No.

A Port size

B Capacity
*2

C Other options
*3
*4
*5
*6

D Voltage
*7

		Model No.						
Code	Description	VLA-15	VLA-20	VLA-25	VLA-32	VLA-40	VLA-50	VLA-65
A Port size								
15	Rp1/2	●						
20	Rp3/4		●					
25	Rp1			●				
32	Rp1 ¹ / ₄				●			
40	Rp1 ¹ / ₂					●		
50	Rp2						●	
65	Rp2 ¹ / ₂							●
B Capacity								
Blank	Standard	●	●	●	●	●	●	●
D	Large flow rate specifications				●	●		
C Other options								
Blank	Standard	None	●	●	●	●	●	●
E	Option	With operation confirmation micro switch	●	●	●	●	●	●
L		With power indicator lamp	●	●	●	●	●	●
P		With pressure detection port	●	●	●	●	●	●
ZZ		Outdoors	●	●	●	●	●	●
H2		Working fluid: Hydrogen gas	●	●	●	●	●	●
D Voltage								
AC100V	Standard	100 VAC 50/60Hz	●	●	●	●	●	●
AC200V		200 VAC 50/60Hz	●	●	●	●	●	●
AC110V	Option	110 VAC 50/60Hz	●	●	●	●	●	●
AC220V		220 VAC 50/60Hz	●	●	●	●	●	●
DC24V		24 VDC	●	●	●	●	●	●
DC100V		100 VDC	●	●	●	●	●	●

*1: The combinations indicated with ● above are available.

*2: For large flow rate specifications (B Item D), flow rate adjustment is not available.

*3: For models with micro switch for operation confirmation (C Item E), a pressure detection port is provided as standard. Flow rate adjustment is not available. Combination with the outdoor specification (C Item ZZ) is not available.

*4: For models with power indicator lamp (C Item L), combination with the outdoor specification (C Item ZZ) is not available.

*5: Combinations of the outdoor specification (C Item ZZ) with micro switch for operation check (C Item E) or with power indicator lamp (C Item L) are not available.

*6: For combinations of the Item C option specifications other than the above, contact CKD.

*7: For voltages other than above, contact CKD.

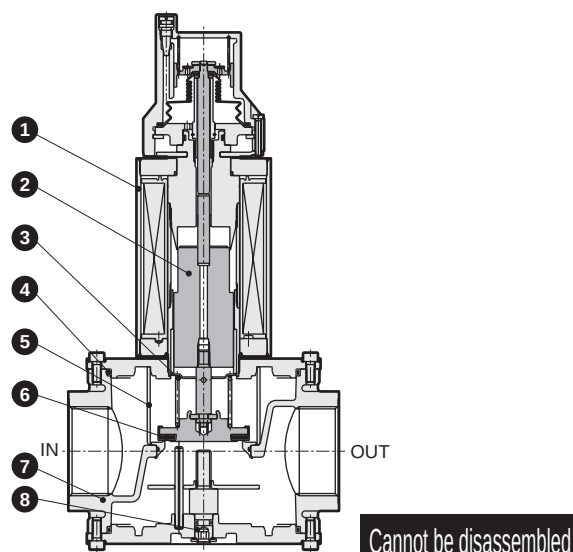
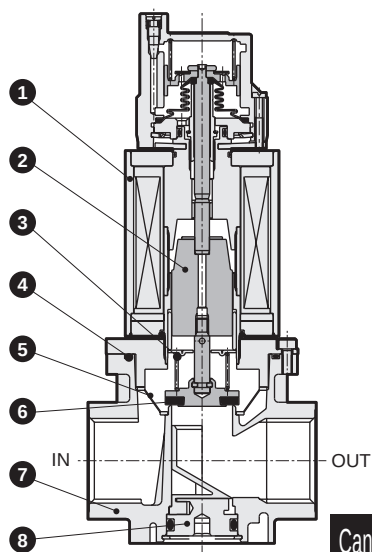
EXA
FWD
HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/AD
APK/ADK
DryAir
EX-XPLNprf
XPLNprf
HVB/HVL
S [◇] B/NAB
LAD/NAD
Water-Rela
NP/NAP/NVP
SNP
CHB/G
MXB/G
Other valves
SWD/MWD
DustColl
CVE/CVSE
CCH/CPE/D
LifeSci
Gas-Combus
Auto-Water
Outdoor
SpecFld
Custom
Ending

EXA
FWD
HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/
AD
APK/
ADK

Internal structure and parts list

● VLA-15 to 40

● VLA-50 to 65

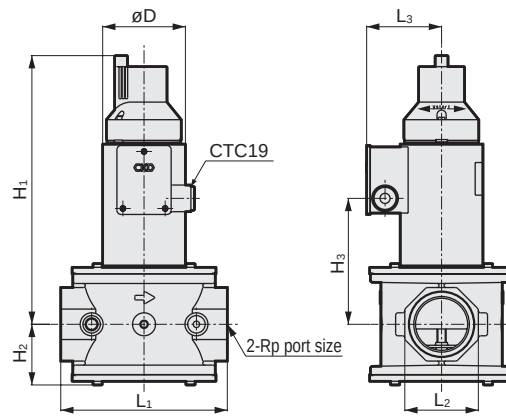
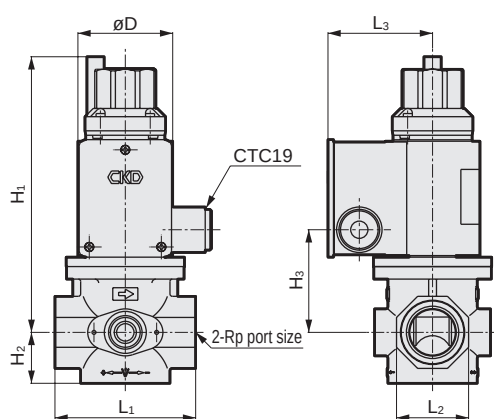


No.	Part name	Material	No.	Part name	Material
1	Bonnet	Steel	5	Strainer	Resin (15 to 50)/stainless steel wire (65)
2	Plunger	Stainless steel	6	Valve disc	Nitrile rubber
3	Spring	Stainless steel wire	7	Body	Aluminum
4	O-ring	Nitrile rubber	8	Flow rate adjustment screw	Aluminum (15 to 40)/steel (50 to 65)

Dimensions

● VLA-15 to 40

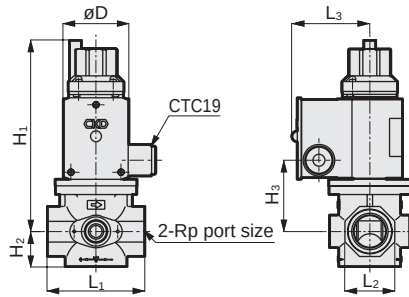
● VLA-50 to 65



Code	Port size	H ₁	H ₂	H ₃	L ₁	L ₂	L ₃	ØD
Model No.								
VLA-15	1/2	161.5	24.5	51	69	32	63	50
VLA-20	3/4	176	33	65.5	89	46	68	60.5
VLA-25	1	176	33	65.5	89	46	68	60.5
VLA-32	1 1/4	195	39.5	84.5	128	65	73	70
VLA-40	1 1/2	195	39.5	84.5	128	65	73	70
VLA-50	2	292.5	66.5	137	180	80	83	90
VLA-65	2 1/2	303.5	77.5	148	218	95	101	127
VLA-32-D	1 1/4	203.5	35	93	128	70	73	70
VLA-40-D	1 1/2	203.5	35	93	128	70	73	70

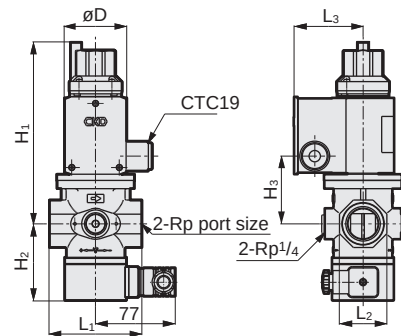
Optional dimensions

- With power indicator lamp
VLA-15 to 65-L



Code Model No.	Port size	H ₁	H ₂	H ₃	L ₁	L ₂	L ₃	ØD
VLA-15-L	1/2	161.5	24.5	51	69	32	68	50
VLA-20-L	3/4	176	33	65.5	89	46	73	60.5
VLA-25-L	1	176	33	65.5	89	46	73	60.5
VLA-32-L	1 1/4	195	39.5	84.5	128	65	78	70
VLA-40-L	1 1/2	195	39.5	84.5	128	65	78	70
VLA-50-L	2	292.5	66.5	137	180	80	88	90
VLA-65-L	2 1/2	303.5	77.5	148	218	95	106	127

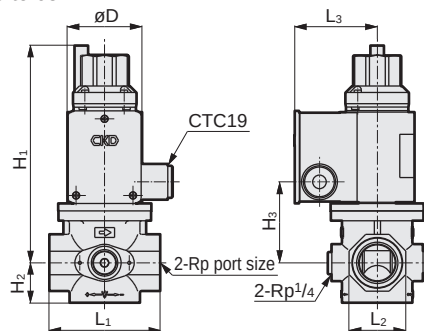
- With for operation confirmation micro switch
VLA-15 to 65-E



* Pressure detection port is provided as standard. Flow rate adjustment is not available.

Code Model No.	Port size	H ₁	H ₂	H ₃	L ₁	L ₂	L ₃	ØD
VLA-15-E	1/2	161.5	69.5	51	69	32	63	50
VLA-20-E	3/4	176	75	65.5	89	46	68	60.5
VLA-25-E	1	176	75	65.5	89	46	68	60.5
VLA-32-E	1 1/4	195	81.5	84.5	128	65	73	70
VLA-40-E	1 1/2	195	81.5	84.5	128	65	73	70
VLA-50-E	2	292.5	104.5	137	180	80	83	90
VLA-65-E	2 1/2	303.5	115.5	148	218	95	101	127

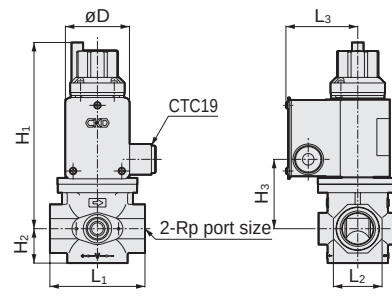
- With pressure detection port
VLA-15 to 65-P



* Pressure detection port connects on the IN side.

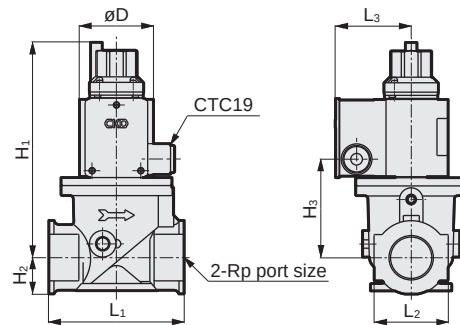
Code Model No.	Port size	H ₁	H ₂	H ₃	L ₁	L ₂	L ₃	ØD
VLA-15-P	1/2	161.5	24.5	51	69	32	63	50
VLA-20-P	3/4	176	33	65.5	89	46	68	60.5
VLA-25-P	1	176	33	65.5	89	46	68	60.5
VLA-32-P	1 1/4	195	39.5	84.5	128	65	73	70
VLA-40-P	1 1/2	195	39.5	84.5	128	65	73	70
VLA-50-P	2	292.5	66.5	137	180	80	83	90
VLA-65-P	2 1/2	303.5	77.5	148	218	95	101	127

- Outdoor
VLA-15 to 65-ZZ



Code Model No.	Port size	H ₁	H ₂	H ₃	L ₁	L ₂	L ₃	ØD
VLA-15-ZZ	1/2	161.5	24.5	51	69	32	63	50
VLA-20-ZZ	3/4	176	33	65.5	89	46	68	60.5
VLA-25-ZZ	1	176	33	65.5	89	46	68	60.5
VLA-32-ZZ	1 1/4	195	39.5	84.5	128	65	73	70
VLA-40-ZZ	1 1/2	195	39.5	84.5	128	65	73	70
VLA-50-ZZ	2	292.5	66.5	137	180	80	83	90
VLA-65-ZZ	2 1/2	303.5	77.5	148	218	95	101	127

- Large flow rate specifications
VLA-32/40-D



* Flow rate adjustment is not available.

Code Model No.	Port size	H ₁	H ₂	H ₃	L ₁	L ₂	L ₃	ØD
VLA-32-D	1 1/4	203.5	35	93	128	70	73	70
VLA-40-D	1 1/2	203.5	35	93	128	70	73	70

EXA
FWD
HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/AD
APK/ADK
DryAir
EX-XPLNprf
XPLNprf
HVB/HVL
S [◇] B/NAB
LAD/NAD
Water-Rela
NP/NAP/NVP
SNP
CHB/G
MXB/G
Other valves
SWD/MWD
DustColl
CVE/CVSE
CCH/CPE/D
LifeSci
Gas-Combus
Auto-Water
Outdoor
SpecFld
Custom
Ending