



Lightweight, compact and reliable safety shut-off valve that uses a solenoid valve drive method.

Medium pressure gas cutoff valve (slow open) **VLM Series**

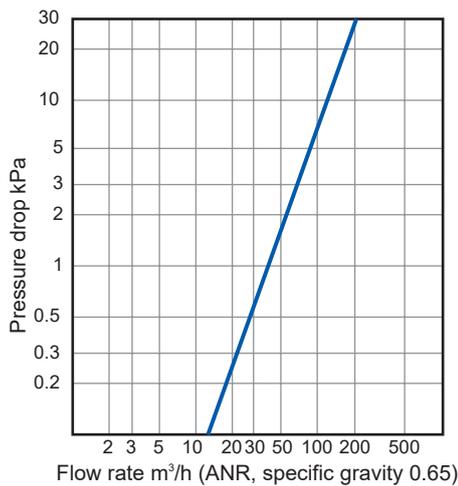
- NC (normally closed)
- City gas/LPG
- Port size: 25A (JIS flange)



Features

- 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.
- Equipped with a pressure switch/pressure gauge mountable connection port on the body.
- With power indicator lamp.

Flow characteristics



Specifications

Item	VLM-25
Working fluid	City gas/LPG (hydrogen gas *1)
Working pressure MPa	0 to 0.3
Flow rate <small>Specific gravity of city gas 0.65 ΔP=0.25kPa</small> m³/h (ANR)	19
Cv	12.8
Rated voltage V	100 AC ±10% 200 AC ±10%
Frequency Hz	Common to 50 and 60
Power consumption (apparent power) VA	82
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
Start gas adjustment %	0 to 50
Re-energizing intermission time s	5.0 or more
Mounting orientation	Vertical direction with the coil on top or horizontal direction with the coil horizontal
Connection	Flange (JIS10KRF)
Port size	25A
Weight kg	7.8
Proof pressure MPa	0.5
Degree of protection	IPX4

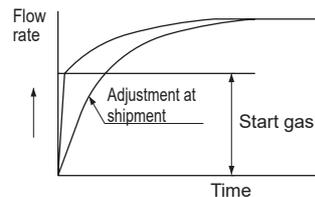
* 1: Only the option for hydrogen gas as the working fluid can be used.

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

VLM - 25 - H2 - AC100V

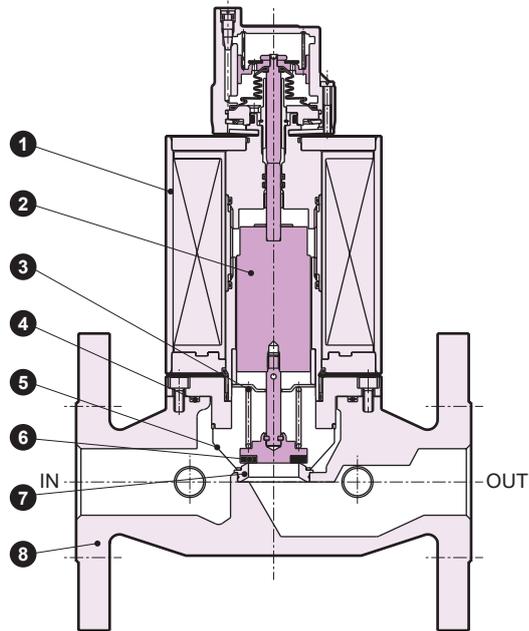
Model No. ① Port size ② Hydrogen compatible option

③ Voltage *2

Code	Description	
① Port size		
25	JIS flange 25A	
② Hydrogen compatible option		
Blank	Standard	
H2	Working fluid: Hydrogen gas	
③ Voltage		
AC100V	Standard	100 VAC 50/60 Hz
AC200V		200 VAC 50/60 Hz
AC110V	Option	110 VAC 50/60 Hz
AC220V		220 VAC 50/60 Hz
DC24V		24 VDC

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

Internal structure/material



Cannot be disassembled

Part No.	Part name	Material
1	Bonnet	Steel
2	Plunger	Stainless steel
3	Spring	Stainless steel wire
4	O-ring	Fluoro rubber
5	Filter	Stainless steel wire
6	Valve disc	Urethane rubber
7	Valve seat	Stainless steel
8	Body	Ductile cast iron

Dimensions

● VLM-25

