



Medium pressure gas combination valve

GRV Series

- City gas/LPG
- Port size: 40A (JIS flange)

Japan only release



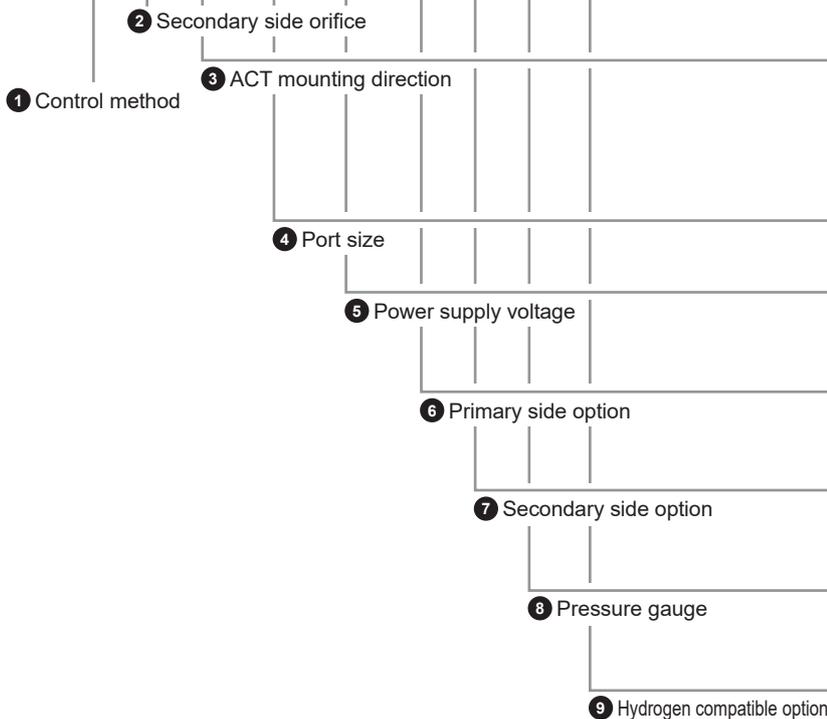
Specifications

Item	Control system Secondary side orifice	Pressure reduction control			ON/OFF control		
		ø15	ø25	ø40	ø15	ø25	ø40
Working fluid		City gas/LPG (hydrogen gas *1)					
Working pressure	MPa	0 to 0.3					
Secondary pressure adjusting range	kPa	10 to 70 (for low pressure)			-		
		60 to 150 (for high pressure)			-		
Flow rate: Specific gravity of natural gas 0.65 ΔP=0.25 kPa	m ³ /h (ANR)	13.8	29.5	38.8	13.8	29.5	38.8
Rated voltage	VAC	100 ^{+10%} _{-15%} , 200 ^{+10%} _{-15%}					
Frequency	Hz	50.60					
Power consumption (apparent power)	VA	26					
Ambient temperature	°C	-10 to 60					
Opening operating time	sec	Fully open 17 seconds or less					
Closing operating time	sec	1 second or less					
Frequency	cycles/min	4 or less					
Connection		Flange (JIS B 2239 10K RF)					
Port size		40A					
Mounting orientation		Vertical direction with the actuator up or vertical piping direction					
Weight	kg	27.5			27		
Proof pressure	MPa	Body	0.45		Body	0.45	
		Governor	0.2			-	

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

How to order

GRV - 2 2 R 40S 2 - N 1 N H2



1 Control method	
1	ON/OFF control
2	Pressure reduction control

2 Secondary side orifice	
1	ø15
2	ø25
3	ø40

3 ACT mounting direction	
L	OUT side
R	L ← → R IN side

* Direction of the ACT terminal box viewed from the IN side flange

4 Port size	
40S	40A (flange)

5 Power supply voltage	
1	100 VAC 50Hz/60Hz
2	200 VAC 50Hz/60Hz

6 Primary side option	
N	None
1	With POC switch

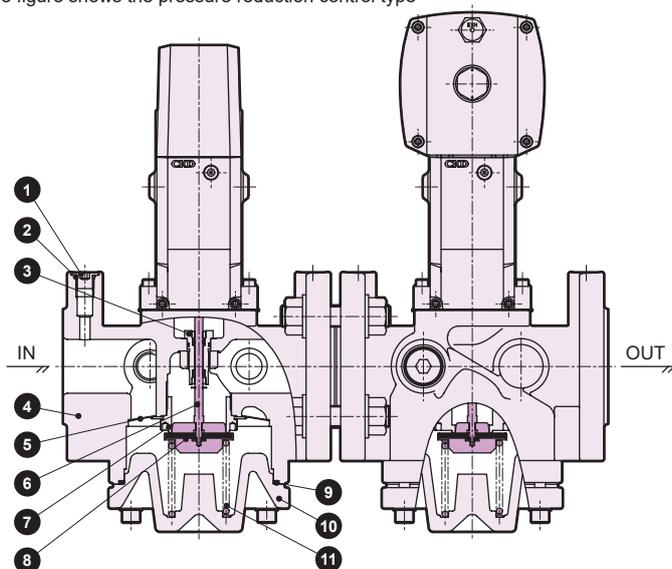
7 Secondary side option	
N	None
1	With POC switch

8 Pressure gauge (included)	
N	None
A	0 to 0.4 MPa

9 Hydrogen compatible option		
Blank	Standard	
H2	Working fluid: Hydrogen gas	

Internal structure/material

*The figure shows the pressure reduction control type

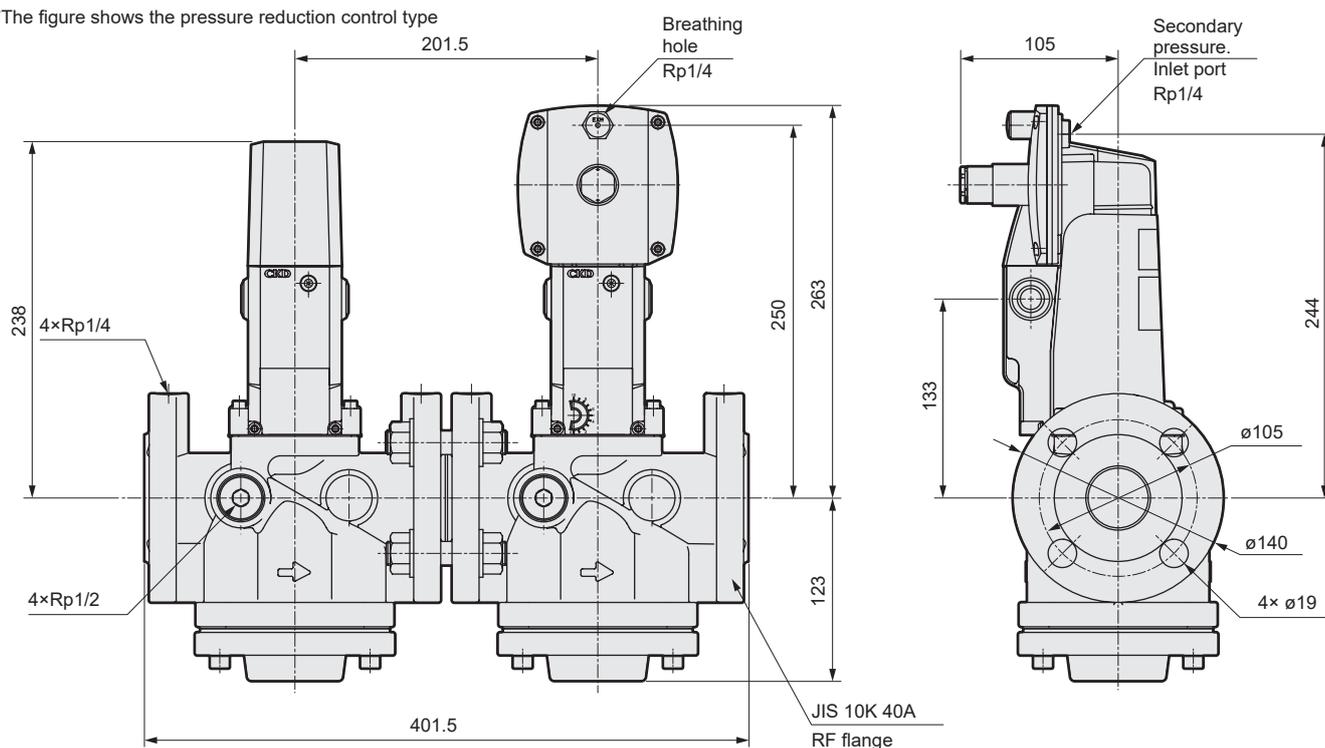


Cannot be disassembled

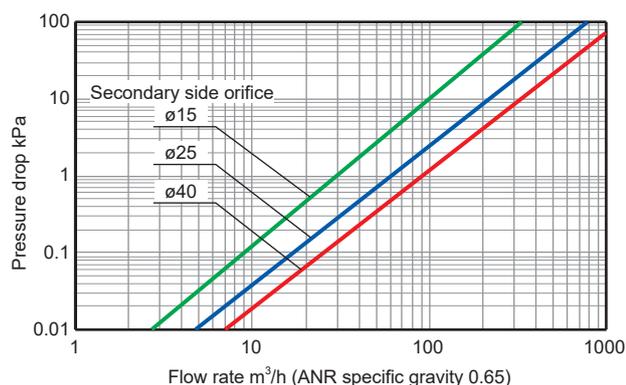
Part No.	Part name	Material
1	Plug	Carbon steel
2	O-ring	Nitrile rubber
3	Guide	Stainless steel
4	Body	Ductile cast iron
5	Filter	Stainless steel wire
6	Rod	Stainless steel
7	Valve seat	Stainless steel
8	Valve body	Stainless steel and nitrile rubber
9	O-ring	Nitrile rubber
10	Bottom cover	Ductile cast iron
11	Spring	Stainless steel wire

Dimensions

*The figure shows the pressure reduction control type



Flow characteristics (at primary side supply pressure 0.1 MPa)



Reference: Conversion coefficient

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

Gas	City gas (13A)	Propane	Air (Reference)	Hydrogen gas *1
Specific gravity	0.65	1.6	1	0.07
Coefficient	1.0	0.63	0.8	3.04

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