With reliable gas control, we can help create an affluent society

Water coolers/Heaters



Building/factory air conditioning, aquarium, etc.

Industrial furnaces



Incinerators, industrial product coaters, dryers, etc



Hospitals, thermal power plants, food plants, etc.

Medium pressure gas combination valve

Slow open/quick shut with hydraulic drive Wide pressure adjusting range

GRV Series (Japan only)

■ Large flow rate/space saving Supports up to medium pressure B

Connected delivery eliminates

complicated piping work

(up to 0.3MPa)

(10kPa to 150kPa)



Safety

The structure, function, and

material of the system product

are closely checked to ensure



equipment, agriculture, etc.

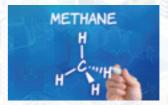


We continuously pursue the ideal gas combustion components, and propose highly reliable systems based on safety.

Environment friendly

We contribute to a society that can develop sustainably, adapting to carbon neutrality and clean energy.

Methanation



Control of greenhouse gases, decarbonization, etc.

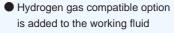
Clean energy



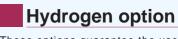
Hydrogen extraction, hydrogen combustion, etc.

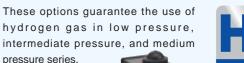
Gas cutoff valve

VNA/VLA Series



- Supports up to intermediate pressures
- Supports a wide range of bore sizes (Rp1/2 to 2 1/2)
- Slow open prevents the burner from going out (VLA)

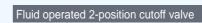












HK1 Series

- Supports intermediate pressure to medium pressure gas
- With gas flow rate adjustment function (excluding size 125 to 200A)
- With indicator for checking valve open/close state



mediate pressure gas combination valve

GHV Series

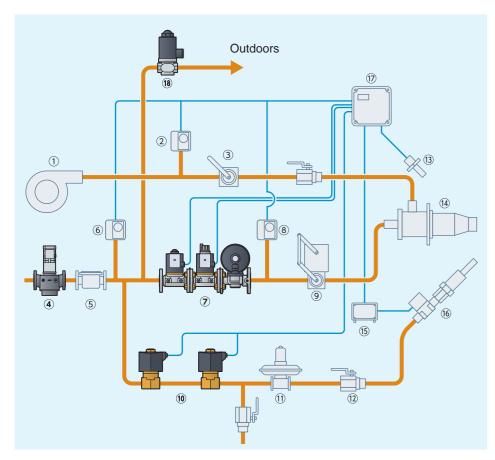
- Supports up to intermediate pressures (up to 50KPa)
- Supports dual gas cutoff by incorporating two solenoid valves
- Space saving and reduced piping hours are possible by integration of solenoid valve + governor + solenoid valve
- Port size change by replacing the flange is possible



In pursuit of system safety from every angle, CKD offers

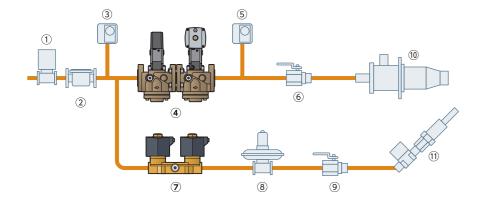
components required for gas combustion systems.

Example of system circuit



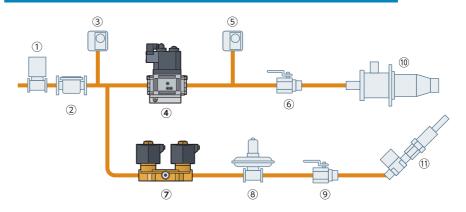
- 1)Air blower
- ②Air pressure switch (lower limit)
- 3Butterfly valve
- 4 Source valve HK1
- 5)Filter
- 6Gas pressure switch
 (lower limit)
- **7**Safety shutoff control system TAC-25
- ®Gas pressure switch (upper limit)
- With control motor Butterfly valve
- 10 Solenoid valve (pilot system) AB4X
- ①Governor (pilot system)
- 12)Gas control valve
- (13)UV phototube
- (14) Burner (pre-mixing)
- (15)Ignition transformer
- 16 Pilot burner
- (17)Automatic burner controller
- 18 Solenoid relief valve VNR

Medium pressure circuit

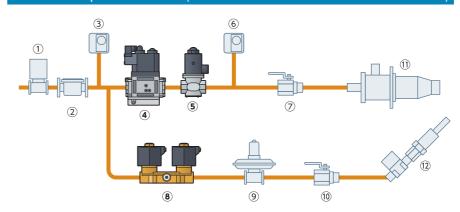


- 1)Valve
- ②Filter
- ③Pressure switch (lower limit)
- 4 Medium pressure gas combination valve GRV Series
- ⑤ Pressure switch (upper limit)
- 6 Gas control valve
- **7**Solenoid valve AB4X
- @ Governor
- 10 Burner
- 11Pilot burner

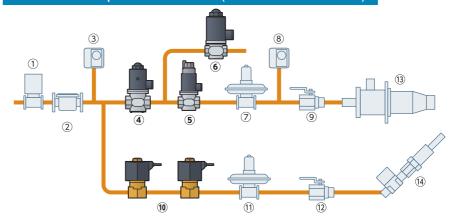
Intermediate pressure circuit (combination valve used)



Intermediate pressure circuit (combination valve used: Hi-Lo-OFF control)



Intermediate pressure circuit (conventional circuit)



- ①Valve
- ②Filter
- ③Pressure switch (lower limit)
- 4Intermediate pressure gas combination valve GHV-G
- ⑤Pressure switch (upper limit)
- 6Gas control valve
- 7 Solenoid valve AB4X
- ®Governor
- **10**Burner
- 11Pilot burner
- 1)Valve
- ②Filter
- ③Pressure switch (lower limit)
- 4Intermediate pressure gas combination valve GHV-G
- 5Flow rate switching solenoid valve VNA-R
- 6 Pressure switch (upper limit)
- 7)Gas control valve
- **8**Solenoid valve AB4X
- (9)Governor
- 10Gas control valve
- 11)Burner
- ¹²Pilot burner
- ①Valve
- ②Filter
- ③Pressure switch (lower limit)
- 4Flow rate switching solenoid valve VNA
- ⑤Gas cutoff valve VLA
- 6Solenoid relief valve VNR
- ⑦ Governor
- 8 Pressure switch (upper limit)
- 10 Solenoid valve AB4X
- (1)Governor
- Gas control valve
- 13Burner
- 14Pilot burner