



Complex integration of cutoff valve/governor/pressure gauge. Highly reliable and economical, ideal for medium pressure gas combustion equipment.

Medium pressure gas safety shutoff control system **TAC-25 Series**

- NC (when energized Open) type
- City gas/LPG
- Port size: Inlet side 25A (JIS flange), outlet side 40A (JIS flange)

RoHS

Features

- Multifunctional systematization
Double cutoff function, governor function, pressure gauge and pressure detection port, as required for medium pressure gas specification combustion equipment, are efficiently combined and systematized.
- Solenoid valve drive method
Solenoid valve structure is adopted for the gas cutoff valve. The DC driven actuator with rectifier has eliminated noise and coil burnout for safety, improving maintainability as well.
- Highly economical
All system components have a compact, space-saving design. No more complicated piping work as cutoff valve is delivered connected.

Applications

- Gas boilers (up to 2 t/h)
- Gas engines
- Gas absorption water coolers/heaters (up to 1,400 kW)
- Industrial furnaces

When placing an order

The medium pressure gas safety cutoff control system is adjusted and shipped with a selection of parts used according to the primary pressure/secondary pressure/flow rate. When ordering, fill in a separate sheet medium pressure gas safety cutoff control system specifications check sheet (page 33). How to order differs depending on the specifications.

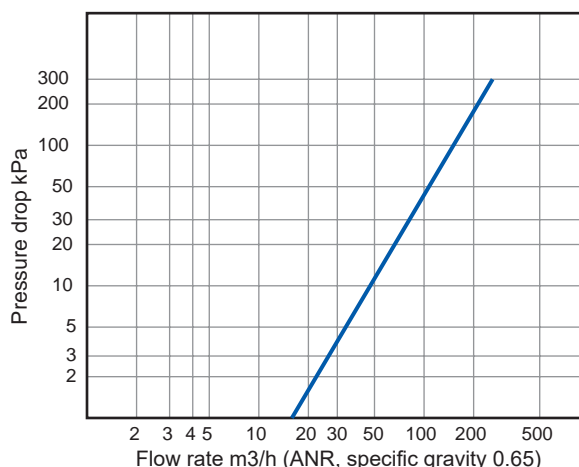
Specifications

Item	TAC-25	
Working fluid	City gas/LPG	
Working pressure MPa	0.1 to 0.2	0.1 to 0.3
Secondary pressure kPa	1.5 to 5	5 to 60
Flow rate <small>Specific gravity of city gas 0.65</small> m ³ /h (ANR)	2 to 40	10 to 120
Rated voltage V	100 AC ±10% 200 AC ±10%	
Frequency Hz	Common to 50 and 60	
Power consumption (apparent power) VA	82 x 2	
Ambient temperature °C	-20 to +60 (no freezing)	
Opening time s	Approx. 10.0 (adjustable)	
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	Inlet side	25A
	Outlet side	40A
Weight kg	23.0	
Degree of protection	IPX4	

* The above specifications are a combination of VNM⊕VLM⊕C25N-B.

* The secondary pressure range indicates the range that can be set by changing parts such as pressure control springs. Contact CKD when considering the use of a primary pressure of less than 0.1 MPa or a flow rate of more than 120 m³/h.

Flow characteristics

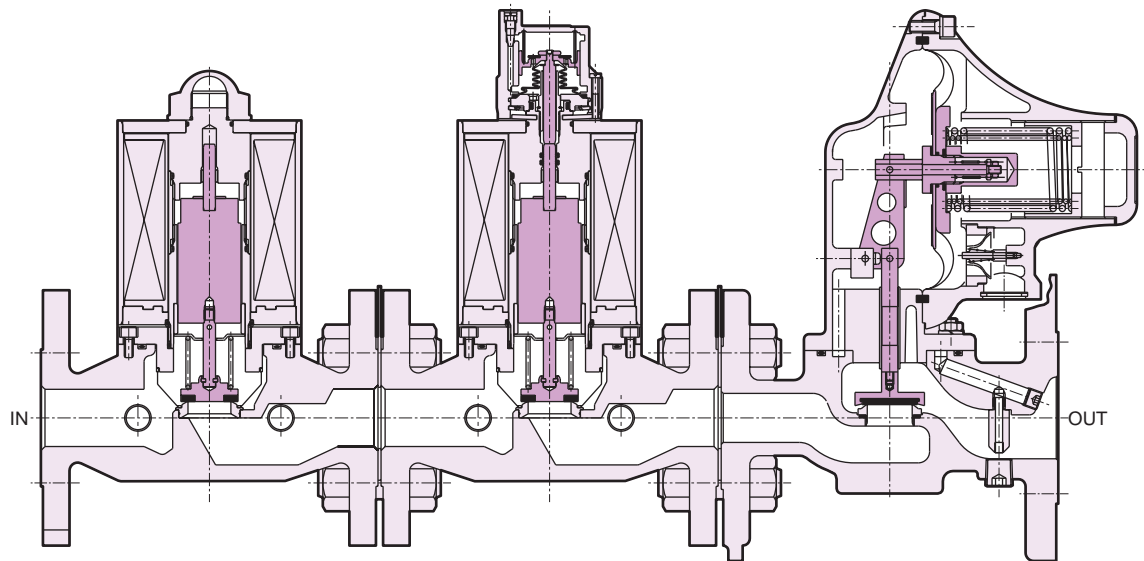


Reference: Conversion coefficient

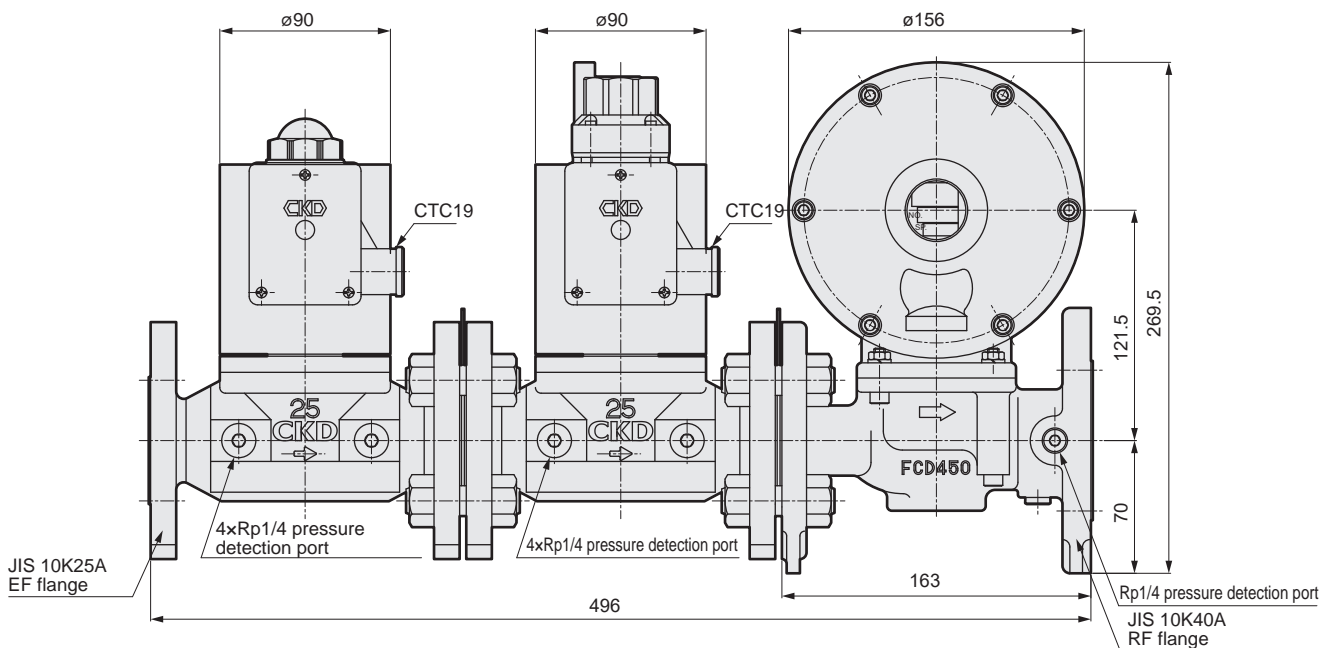
Converted flow rate = (flow rate in table) x (coefficient)

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

⚠ When opening and closing the TAC-25 downstream cutoff valve, be sure to interlink it with the TAC-25 medium pressure gas cutoff valve. (If the downstream valve is the flow rate switching solenoid valve, interlinking with the medium pressure gas cutoff valve is not required.)



Refer to pages 35 to 40
for details.



Medium pressure gas safety cutoff control system specifications check sheet

■ Company

/ /

■ User name

■ Quantity

■ Delivery

■ Contact

■ Device used

Contact

● Common items

Fluid name	
Specific gravity	

● Cutoff valve item

Voltage	
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● Governor items

Primary pressure MPa	Min.	Regular use	Max.
Secondary pressure kPa	*1 (Set flow rate: m³/h (ANR))		
Flow rate m³/h (ANR)	Min.	Max.	
Mounting direction	Position of the upper cap viewed from the IN side flange		
	1 right side	2 left side	
	3 OUT side	4 IN side	

● Pressure gauge items

Pressure display	0.4 MPa
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● Remarks

*1: If setting flow rate is not designated due to secondary pressure adjustment, it is adjusted to the maximum flow rate.

Issuer

Distributor

Plant