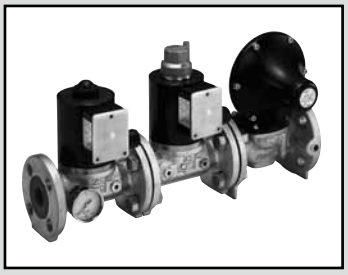


Complex integration of cutoff valve/governor/pressure gauge. Highly reliable and economical, ideal for medium pressure gas combustion equipment.

Medium pressure gas safety cutoff control system
TAC-25 Series

- City gas/natural 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.

Main 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

Medium pressure gas safety cutoff control system is shipped with the primary pressure/secondary pressure/flow rate adjusted.
When ordering, fill in a separate medium pressure gas safety cutoff control system specifications check sheet (page 966).
How to order differs depending on the specifications.

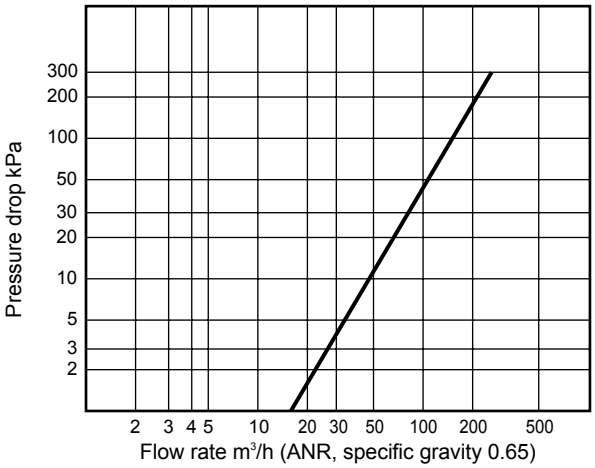
Specifications

1 MPa = 10 bar

Descriptions		TAC-25	
Working fluid		City gas/natural gas/LPG	
Working pressure MPa		0.1 (≈15 psi) to 0.2 (≈29 psi)	0.1 (≈15 psi) to 0.3 (≈44 psi)
Secondary pressure kPa		1.5 (≈0.22 psi) to 5 (≈0.7 psi)	5 (≈0.8 psi) to 60 (≈8.7 psi)
Flow rate (Specific gravity of natural gas 0.65) 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		82×2	
Ambient temperature °C		-20 (-4°F) to +60 (140°F) (no freezing)	
Opening time s		Approx. 10.0 (adjustable)	
Closing time s		1.0 or less	
Frequency Cycle/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 up or horizontal direction with the coil horizontal	
Connection		Flange (JIS10KRF)	
Port size	Inlet side	25A	
	Outlet side	40A	
Weight kg		23.0	

* The above specifications are a combination of VNM⊕VLM⊕C25N-B.
* The secondary pressure range shows the range that can be set by changing the control spring.
* Contact CKD when a large flow rate is required.

Flow characteristics



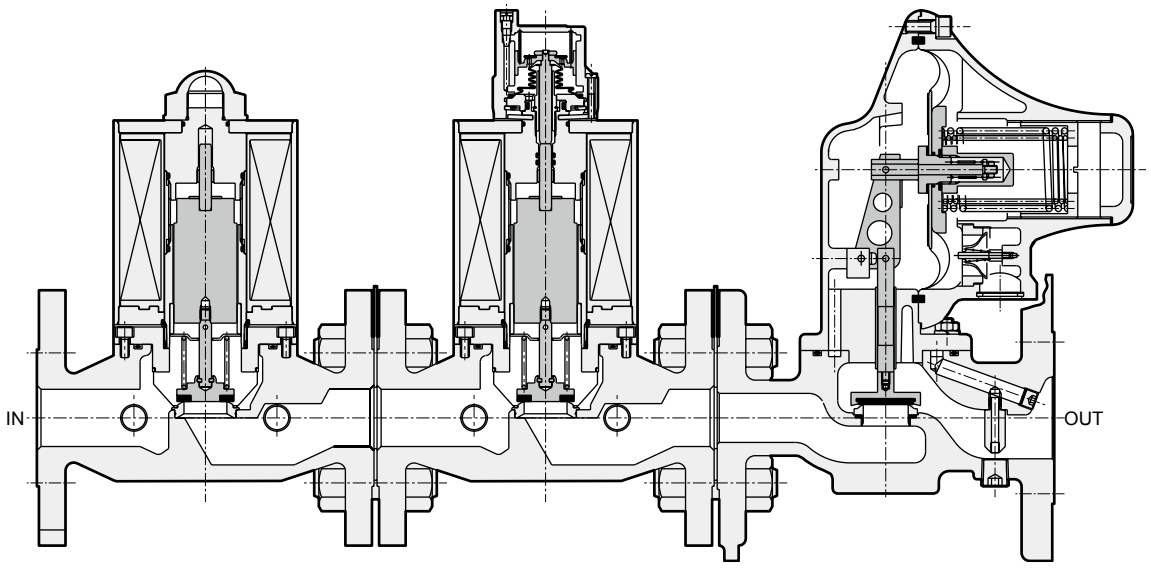
Reference: conversion coefficient

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

Gas type	Natural gas (13A)	City gas (6B.6C)	Propane	Butane	Butane-air (6A)
Specific gravity (air = 1)	0.65	0.54	1.6	2.0	1.25
Coefficient	1.0	1.09	0.63	0.57	0.72

⚠ 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.)

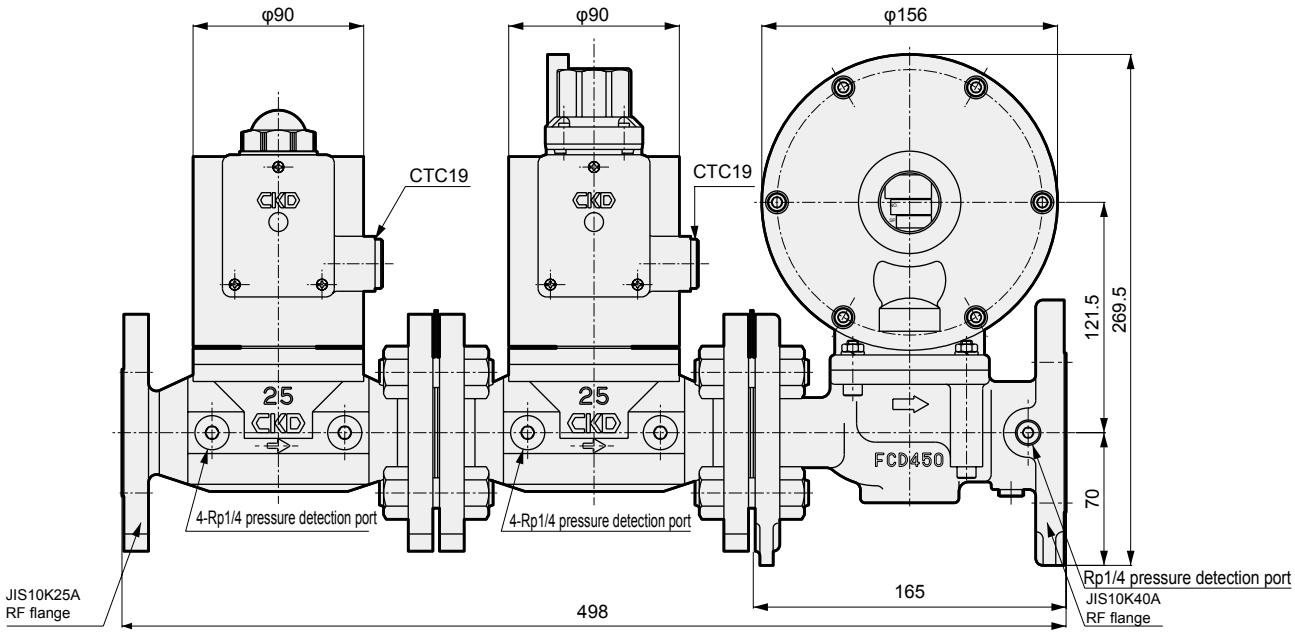
Internal structure



● Parts are the same as the single unit.
Refer to pages 968 to 973.

Dimensions

● TAC-25



Medium pressure gas safety cutoff control system specifications check sheet

/ /

■ Your company name

■ User name

■ Quantity

■ Delivery date

■ Contact

■ Master unit used

● Common descriptions

Fluid name	
Specific gravity	
Mounting orientation and flow direction	

● Cutoff valve descriptions

Voltage	

● Governor descriptions

Primary pressure MPa	Min.	Regular use	Max.
Secondary pressure kPa	*1 (setting flow rate: m³/h (ANR))		
Flow rate m³/h (ANR)	Min.		Max.
Mounting orientation	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 descriptions

Pressure display	0.4 MPa

● Remarks

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

Issuer → Dealer → Plant