

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



### 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 1010). How to order differs depending on the specifications.

### Specifications

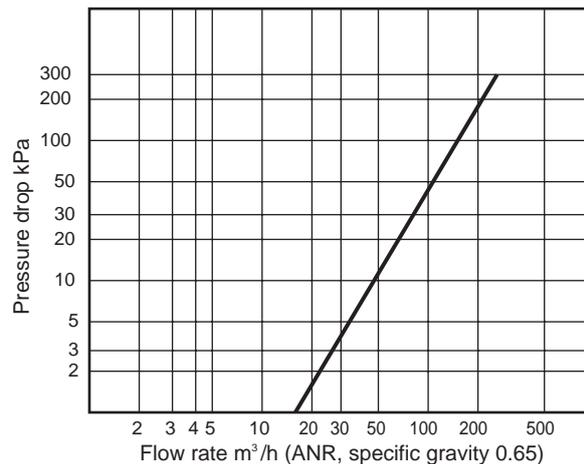
Item	TAC-25	
Working fluid	City gas/LPG	
Working pressure MPa	0.1 to 0.2	0.1 to 0.3
Secondary pressure kPa	1.5 to 5	5 to 60
Flow rate <sup>Specific gravity of city gas 0.65</sup> m <sup>3</sup> /h (ANR)	2 to 40	10 to 120
Rated voltage V	100 AC ±10% 200 AC ±10%	
Frequency Hz	Common to 50 and 60	
Power 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 times	5.0 or moreUp	
Mounting orientation	Vertical direction with the coil up or horizontal direction with the coil horizontal	
Connection	Flange (JIS10KRF)	
Port size	Inlet side	25 A
	Outlet side	40 A
Weight kg	23.0	
Degree of protection	IPX4	

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

\* Secondary pressure range refers to the range that can be set by changing parts such as pressure control springs.

\* Contact CKD when using the product with a primary pressure of less than 0.1MPa or a flow rate exceeding 120m<sup>3</sup>/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.)



- EXA
- FWD
- HNB/G
- USB/G
- FAB/G
- FGB/G
- FVB
- FWB/G
- FHB
- FLB
- AB
- AG
- AP/AD
- APK/ADK
- DryAir
- EX-XPLNprf
- XPLNprf
- HVB/HVL
- S $\diamond$ B/NAB
- LAD/NAD
- Water-Rela
- NP/NAP/NVP
- SNP
- CHB/G
- MXB/G
- Other valves
- SWD/MWD
- DustColl
- CVE/CVSE
- CCH/CPE/D
- LifeSci
- Gas-Combus
- Auto-Water
- Outdoor
- SpecFld
- Custom
- Ending

## Medium pressure gas safety shut off control system specifications check sheet

■ Company \_\_\_\_\_ / \_\_\_\_\_ /

■ User name \_\_\_\_\_

■ Quantity \_\_\_\_\_

■ Delivery date \_\_\_\_\_

■ Contact \_\_\_\_\_

■ Master unit used \_\_\_\_\_

● Common descriptions

Fluid name	_____
Specific gravity	_____

● Shut off valve descriptions

Voltage	_____
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● Governor descriptions

Primary pressure MPa	Min. _____	Regular use _____	Max. _____
Secondary pressure kPa	*1 _____ (setting flow rate: _____ m <sup>3</sup> /h (ANR))		
Flow rate m <sup>3</sup> /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
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● Remarks \_\_\_\_\_

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