

Highly reliable shutdown valve with integrated motor/hydraulic pump and large flow rate even with low pressure (202 to 449m³/h (ANR)

# Fluid operated 2-position cutoff valve **HS series**

- NC (normally closed)
- City gas/LPG
- Port size: 50A (JIS flange)/80A (JIS flange)



#### **Features**

- Reliable and long service-life actuator with integrated motor and hydraulic pump
- Excellent performance in safe gas cutoff
- Indicator for checking valve open/close state

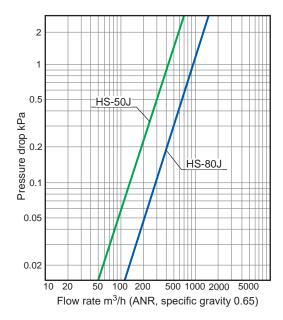
- Lightweight aluminum body
- Supplied terminal box makes wiring easier.

#### **Specifications**

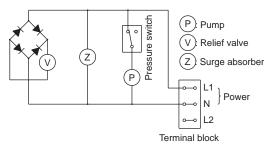
Item	HS-50J	HS-80J		
Working fluid	City gas/LPG (hydrogen gas *1)			
Working pressure MPa	0 to 0.18	0 to 0.06		
Flow rate Specific gravity of city gas 0.65 m/3/h (ANR)	202	449		
Cv	135	300		
Rated voltage V	100 AC ±10% 200 AC ±10%			
Frequency Hz	Common in 50 and 60			
Power consumption When valve is opening	120 (100 VAC), 115 (200 VAC)			
(apparent power)VA When valve is held open	12			
Ambient temperature °C	-15 to +60 (no freezing)			
Opening time s	30 or less (ambient temperature 0 to 60°C with rated voltage)			
Closing time s	1.0 or less			
Frequency cycles/min	4 or less			
Mounting orientation	Vertical direction with the actuator up or horizontal direction with the terminal box side of actuator up			
Connection	Flange (JIS10KRF)			
Port size	50A	80A		
Weight kg	13	17		
Proof pressure MPa	0.6			
Degree of protection	IP54 (IP21 or equivalent with HP terminal box)			

<sup>\* 1:</sup> Only the option for hydrogen gas as the working fluid can be used.

#### Flow characteristics



#### Electric circuit Fig.



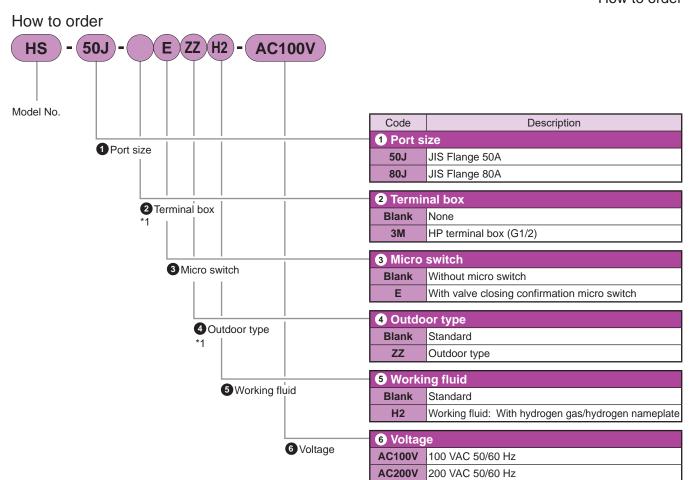
\* The contact of pressure switch indicates that the valve is closed.

#### Reference: Conversion coefficient

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

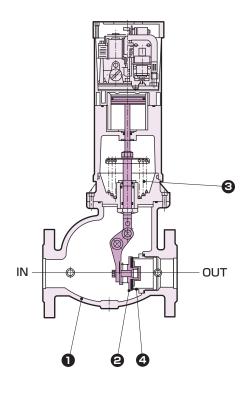
Gas	City gas (13A)	Propane	Butane	Hydrogen gas *1	
Specific gravity (air = 1)	0.65	1.6	2.0	0.07	
Coefficient	1.0	0.63	0.57	3.04	





<sup>\*1:</sup> When "ZZ" is selected for **⑤** Outdoor type specifications, a round terminal box is automatically included and "3M" is not available for the **⑥** terminal box.

## HS series

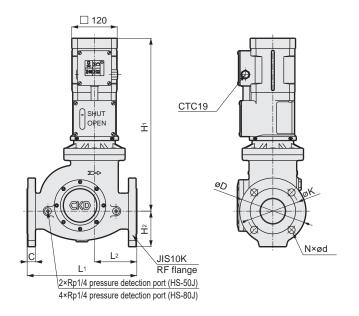


### Cannot be disassembled

Part No.	Part name	Material	
1	Body	Aluminum	
2	Valve disc	Nitrile rubber	
3	Spring	Piano wire	
4	Valve seat	Aluminum	

#### **Dimensions**

● HS-50J/80J



Code Model No.	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	С	øD	øK	N-ød
HS-50J	434	82	230	83	20	155	120	4x19
HS-80J	465	100	310	112	22	185	150	8x19