



Highly reliable shutdown valve with integrated motor/hydraulic pump and large flow rate even with low pressure (202 to 449m<sup>3</sup>/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

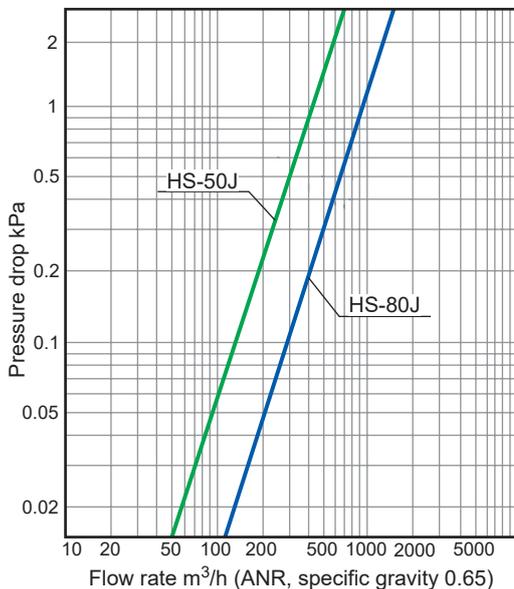
- Reliable and long service-life actuator with integrated motor and hydraulic pump
- Excellent performance in safe gas cutoff
- Indicator for checking valve open/close state
- Lightweight aluminum body
- Supplied terminal box makes wiring easier.

### Specifications

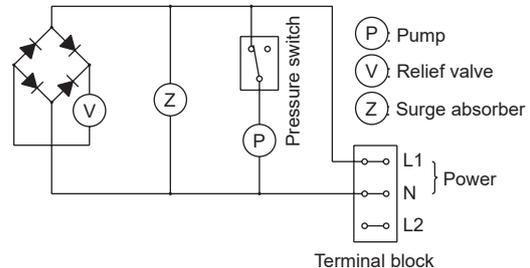
Item	HS-50J	HS-80J
Working fluid	City gas/LPG (hydrogen gas *1)	
Working pressure MPa	0 to 0.18	0 to 0.06
Flow rate <small>Specific gravity of city gas 0.65 ΔP=0.2MPa</small> m <sup>3</sup> /h (ANR)	202	449
Cv	135	300
Rated voltage V	100 AC ±10% 200 AC ±10%	
Frequency Hz	Common in 50 and 60	
Power consumption (apparent power)VA	120 (100 VAC), 115 (200 VAC)	
	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	50 A	80 A
Weight kg	13	17
Proof pressure MPa	0.6	
Degree of protection	IP54 (IP21 or equivalent with HP terminal box)	

\* 1: 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

## How to order

Model No. **HS - 50J - E ZZ H2 - AC100V**

Model No.

① Port size

② Terminal box  
\*1

③ Micro switch

④ Outdoor type  
\*1

⑤ Working fluid

⑥ Voltage

Code	Description
<b>① Port size</b>	
50J	JIS Flange 50A
80J	JIS Flange 80A

<b>② Terminal box</b>	
Blank	None
3M	HP terminal box (G1/2)

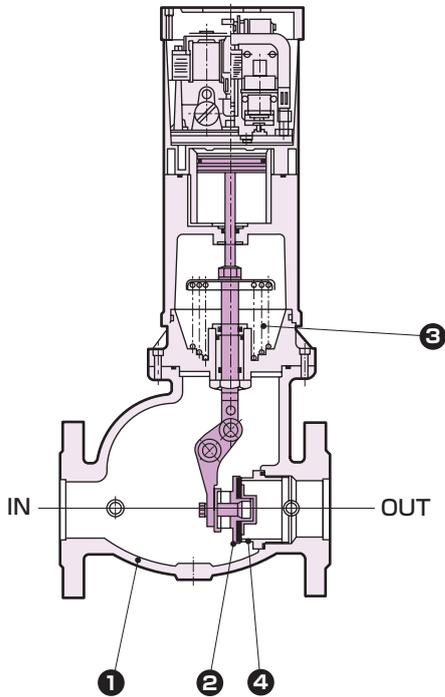
<b>③ Micro switch</b>	
Blank	Without micro switch
E	With valve closing confirmation micro switch

<b>④ Outdoor type</b>	
Blank	Standard
ZZ	Outdoor type

<b>⑤ Working fluid</b>		
Blank	Standard	
H2	Working fluid: With hydrogen gas	

<b>⑥ Voltage</b>	
AC100V	100 VAC 50/60 Hz
AC200V	200 VAC 50/60 Hz

\*1: When "ZZ" is selected for ④ Outdoor type specifications, a round terminal box is automatically included and "3M" is not available for the ② terminal box.

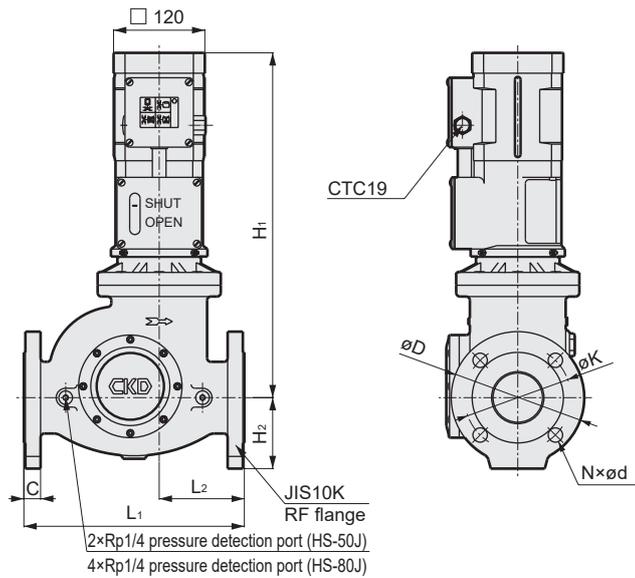


**Cannot be disassembled**

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>	C	øD	øK	N-ød
HS-50J	434	82	230	83	20	155	120	4x19
HS-80J	465	100	310	112	22	185	150	8x19