



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

Fluid operated 2-position cutoff valve **HS Series**

- NC (Open when energized)
- City gas/LPG
- Port size: 50A (JIS flange)/80A (JIS flange)

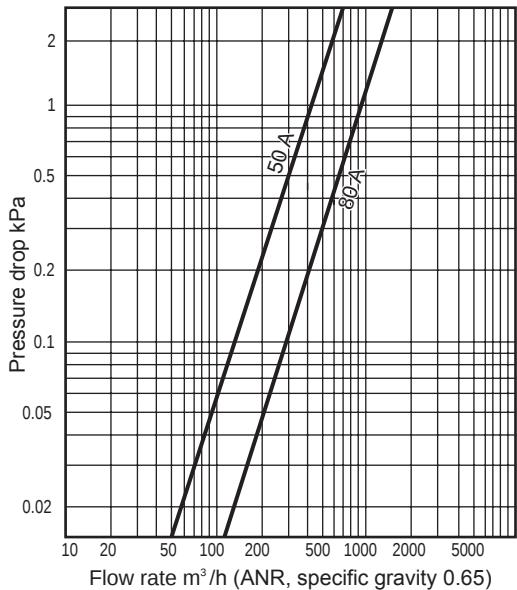
Features

- 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.

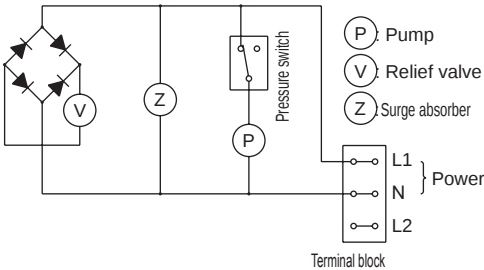
Specifications

Item	HS-50J	HS-80J
Working fluid	City Gas LPG	
Working pressure MPa	0 to 0.18	0 to 0.06
Flow rate Specific gravity of city gas 0.65 △P=0.23MPa m ³ /h(ANR)	202	449
Cv	135	300
Rated voltage V	100 AC ±10% 200 AC ±10%	
Frequency Hz	Common to 50 and 60	
Power consumption When valve is opening (apparent power) VA When valve is held open	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, 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	furanJ (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)	

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
Specific gravity (air = 1)	0.65	1.6	2.0
Coefficient	1.0	0.63	0.57

How to order

HS - 50J - 3M - E - ZZ - AC100V

Model No.

A Port size

B Terminal box
*1

C Micro switch

D Outdoors
*1

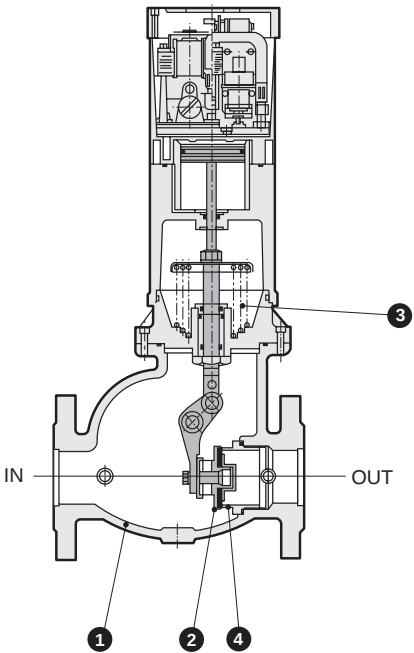
E Voltage

Code	Description
A Port size	
50J	JIS Flange 50A
80J	JIS Flange 80A
B Terminal box	
Blank	None
3M	HP terminal box (G1/2)
C Micro switch	
Blank	Without micro switch
E	With valve closing confirmation micro switch
D Outdoors	
Blank	Standard
ZZ	Outdoors
E Voltage	
AC100V	100 VAC 50/60Hz
AC200V	200 VAC 50/60HZ

*1 : For ZZ of D (outdoor), a round terminal box is automatically attached and 3M of B (terminal box) cannot be selected.

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[◇]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

Internal structure and parts list

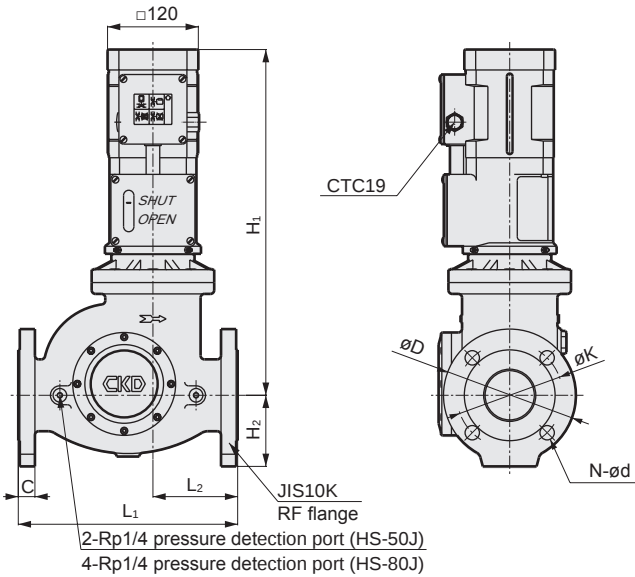


Cannot be disassembled

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	H ₁	H ₂	L ₁	L ₂	C	øD	øK	N-ød
Model No.								
HS-50J	434	82	230	83	20	155	120	4-19
HS-80J	465	100	310	112	22	185	150	8-19