

FAB/G

FGB/G

FVB

FWB/G

FHB

FLB

AB

AG

AP/

AD

APK/ ADK

DryAir

EX-XPLNprf

XPLNprf

HVB/

S \$ B/

NAB

LAD/ NAD

Water-

Rela NP/NAP/ NVP

HVL

Equivalent to "DIN3394" group B for double cutoff compliant with low pressure (5 kPa) specifications

# Gas cutoff valve (quick open) DSG series

NC (normally closed)

City gas/LPG

Port size: Rp1/2, Rp3/4, Rp1





### **Features**

- Japan Gas Component Inspection Association (JIA) typeCertified product (Applicable models: DSG-15-100VAC, 200VAC, DSG-20-100VAC, 200VAC, DSG-25-100VAC, 200VAC. \*Option products are not compliant.)
- The DC driven actuator with rectifier has eliminated noise and coil burnout for safety.
- Built-in strainer for a structure that stops foreign matter such as dust in front of the valve during piping.
- Equipped with JIS standard conduit thread, making electrical wiring easy.

# **Applications**

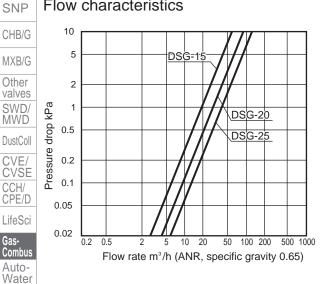
- Gas boilers
- Industrial furnaces
- Gas absorption water coolers/heaters
- Drying furnaces
- Hydrogen-related devices (only working fluid is hydrogen gas option)
- Others

### **Specifications**

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Item		DSG-15	DSG-20	DSG-25		
Working fluid		urban gasS/LPG (Hydrogen * 1)				
Working pressure	kPa		0 to 5			
Flow rate $^{\text{Specific gravity of city gas 0.66}}_{\Delta P=0.25\text{kPa}}\text{m}^3/\text{h}$ (	(ANR)	9.8	15.0	20.0		
Cv		6.6	10.1	13.4		
Rated voltage	V	10	0 AC <sup>+10%</sup> 200 AC <sup>+10</sup>	% 6		
Frequency	Hz		Common to 50 and 6	0		
Power consumption (apparent pow	ver) VA	16				
Ambient temperature	o°C	-20 to +60 (no freezing)				
Opening time	s	0.5 or less				
Closing time	s	1.0 or less				
Frequency cycles/	min.	30 or less				
Mounting orientation		with the coil on topvertical direction or horizontal direction with the coil horizontalwith				
Connection		Screw-in (Rp)				
Port size		1/2	3/4	1		
Weight	kg	1.0	1.2	1.2		
Proof pressure	ИРа	0.1				
Degree of protection		IP51 or equivalent	IP51 or equivalent (IP21 or equivalent with HP terminal box)			
*1. Only the working fluid hydrogen gas option can be used						

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

### Flow characteristics



Reference: conversion coefficient Converted flow rate = (flow rate in table) x (coefficient)

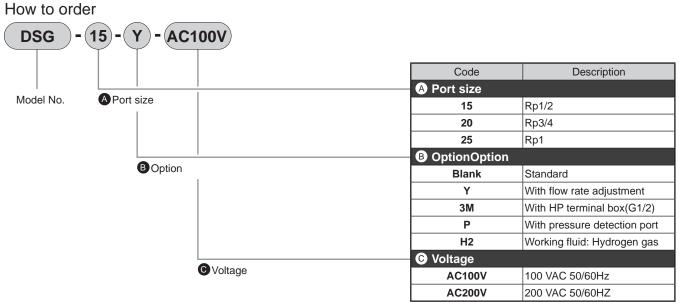
Gas	City gas (13A)	Propane	Butane	Hydrogen gas *1
Specific gravity (air = 1)	0.65	1.6	2.0	0.07
Coefficient	1.0	0.63	0.57	3.04

Custom

Outdoor SpecFld

# **DSG** Series

#### How to order



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

# DSG Series

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

CVE/ CVSE CCH/ CPE/D

LifeSci

Gas-Combus Auto-Water Outdoor

### Internal structure and parts list

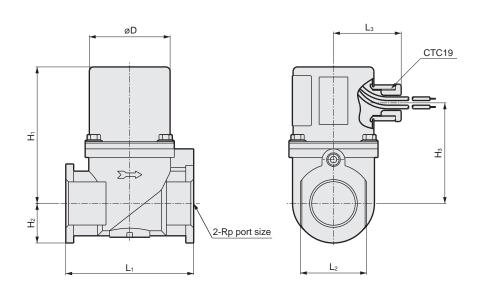
# Cannot be disassembled

No.	Part name	Material
1	Bonnet	Steel
2	Plunger	Stainless steel
3	Spring	Stainless steel wire
4	O-ring	Nitrile rubber
5	Strainer	Resin
6	Valve disc	Nitrile rubber
7	Body	Aluminum die-casting

# Dimensions



Standard DSG-15 to 25



	Code Model No.	Port size	H <sub>1</sub>	H₂	Н₃	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	øD
1	DSG-15	1/2	91	17.5	67	69	32	47	56
4	DSG-20	3/4	95	27.5	71	89	46	47	56
	DSG-25	1	95	27.5	71	89	46	47	56

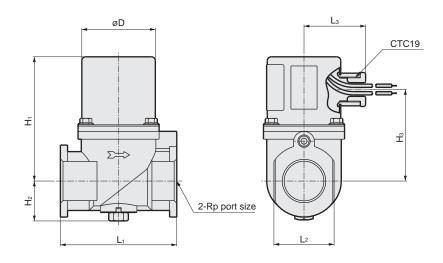
Custom

988



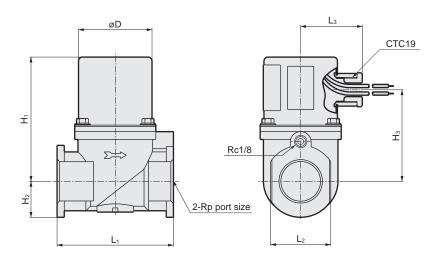
With flow rate adjustment DSG-15 to 25-Y

Optional dimensions



Code Model No.	Port size	Hı	H <sub>2</sub>	Нз	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	øD
DSG-15-Y	1/2	91	24	67	69	32	47	56
DSG-20-Y	3/4	95	30.5	71	89	46	47	56
DSG-25-Y	1	95	30.5	71	89	46	47	56

#### With pressure detection port DSG-15 to 25-P



Code Model No.	Port size	H <sub>1</sub>	H <sub>2</sub>	Нз	L1	L2	Lз	øD
DSG-15-P	1/2	91	17.5	67	69	32	47	56
DSG-20-P	3/4	95	27.5	71	89	46	47	56
DSG-25-P	1	95	27.5	71	89	46	47	56

Dimensions

EXA **FWD** 

HNB/G

USB/G

FAB/G

FGB/G

**FVB** 

FWB/G

FHB

FLB

AΒ

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

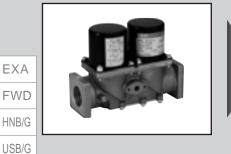
LifeSci

Gas-Combus Auto-Water

Outdoor

SpecFld

Custom



Equivalent to "DIN3394" group B for double cutoff valve compliant with low pressure (5 kPa) specifications

# Gas double cutoff valve (quick open) DSG-W series

- NC (normally closed)
- City gas/LPG
- Port size: Rp3/4, Rp1



### **Features**

- The DC driven actuator with rectifier has eliminated noise and coil burnout for safety.
- Built-in strainer for a structure that stops foreign matter such as foreign materials in front of the valve during piping.

# **Applications**

Gas boilers

FAB/G

FGB/G

FVB

FWB/G

FHB

FLB AB

AG

AP/

AD APK/ ADK

DryAir

EX-XPLNprf

XPLNprf HVB/ HVL

S∜B/ NAB

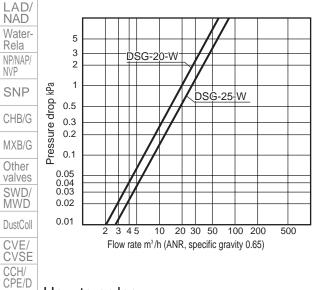
- Industrial furnaces
- Gas absorption water coolers/heaters
- Drying furnaces
- Hydrogen-related devices (only working fluid is hydrogen gas option)
- Others

### **Specifications**

Opcomoditorio				
Item	DSG-20-W	DSG-25-W		
Working fluid	City gas/LPG (hydrogen *)			
Working pressure kP	a Ot	0 5		
Flow rate Specific gravity of city gas 0.65 m <sup>3</sup> /h (ANF	10.5	14.0		
Cv	7.0	9.4		
Rated voltage	/ 100 AC <sub>-15%</sub> 2	200 AC +10% -15%		
Frequency H	Z Common to	50 and 60		
Power consumption (apparent power) \	16 x 2			
Ambient temperature °0	-20 to +60 (no freezing)			
Opening time	0.5 or less			
Closing time	1.0or less			
Frequency cycles/mir	30 or less			
Mounting orientation	Vertical direction with the coil on top or horizontal direction with the coil horizontal			
Connection	Screw-in (Rp)			
Port size	3/4	1		
Weight k	2.0	2.0		
Proof pressure MP	0.1			
Degree of protection	IP 21 o	IP 21 or equiv.		
*4. Only the consulting official by				

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

### Flow characteristics

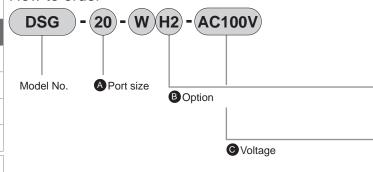


### Reference: conversion coefficient

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



Code	Description			
A Port size				
20	Rp3/4			
25	Rp1			
B Option				
Blank	Standard			
H2	Working fluid: Hydrogen gas			
© Voltage				
AC100V	100 VAC 50/60Hz			
AC200V	200 VAC 50/60Hz			

990

LifeSci

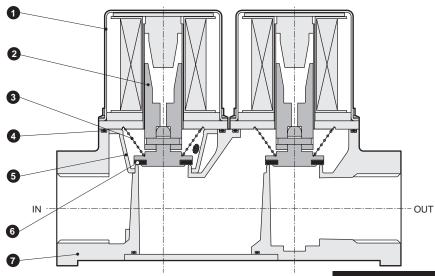
Gas-Combus Auto-Water Outdoor

SpecFld

Custom

# Internal structure and dimensions

Internal structure and parts list

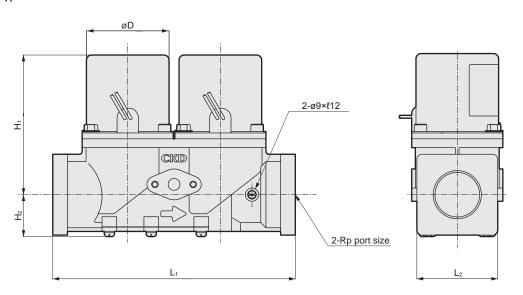


# Cannot be disassembled

No.	Part name	Material
1	Bonnet	Steel
2	Plunger	Stainless steel
3	Spring	Stainless steel wire
4	O-ring	Nitrile rubber
5	Strainer	Resin
6	Valve disc	Nitrile rubber
7	Body	Aluminum die-casting

### **Dimensions**

### ● DSG-20/25-W



Code Model No.	Port size	H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	øD
DSG-20-W	3/4	95	28.5	165	55	56
DSG-25-W	1	95	28.5	165	55	56

EXA

FWD HNB/G

USB/G

FAB/G FGB/G

FVB

FWB/G

FHB

FLB AB

AG

AP/ AD

APK/ ADK DryAir

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DustColl
CVE/
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CVSE CCH/ CPE/D

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Gas-Combus Auto-Water

Outdoor SpecFld

Custom

