

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

Gas cutoff valve (quick open) DSG series

- NC (Open when energized)
- City gas/LPG
- Port size: Rp1/2, Rp3/4, Rp1



Features

 Japan Gas Component Inspection Association (JIA) type certified product Applicable models:

DSG-15-AC100V, AC200V DSG-20-AC100V, AC200V DSG-25-AC100V, AC200V

*Optional products are not supported.

- 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

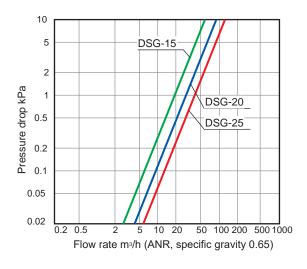
- Gas boilers
- Industrial furnaces
- Gas absorption water coolers/heaters
- Drying furnaces
- Hydrogen-related devices (only hydrogen gas option is used as the working fluid)
- Other

Specifications

-					
Item	DSG-15	DSG-20	DSG-25		
Working fluid	City gas/LPG (hydrogen gas *1)				
Working pressure kPa		0 to 5			
Flow rate Specific gravity of dity gas 0.65 m3/h (ANR	9.8	15.0	20.0		
Cv	6.6	10.1	13.4		
Rated voltage V	100		+10% -15%		
Frequency Hz		Common to 50 and 60)		
Power consumption (apparent power) VA	A	16			
Ambient temperature °C	-20 to +60 (no freezing)				
Opening time	3	0.5 or less			
Closing time	3	1.0 or less			
Frequency cycles/mir	ı	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	1/2	3/4	1		
Weight kg	1.0	1.2	1.2		
Proof pressure MPa	0.1				
Degree of protection	IP51 or equivalent (IP21 or equivalent with HP terminal box)				
* 1. Only the entire for bydre		luid and be used			

^{* 1:} Only the option for hydrogen gas as the working fluid can be used.

Flow characteristics

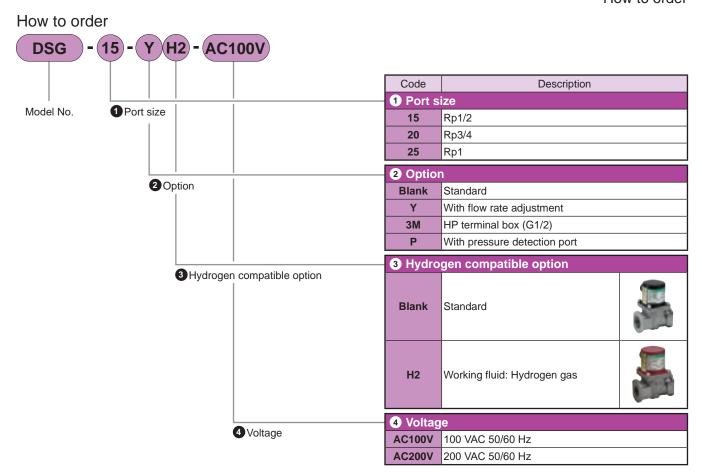


Reference: Conversion coefficient

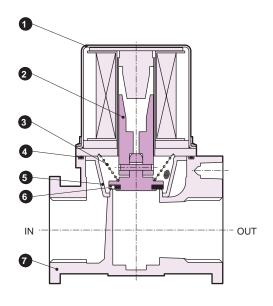
Converted flow rate = (flow rate in table) x (coefficient)

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



Internal structure/material

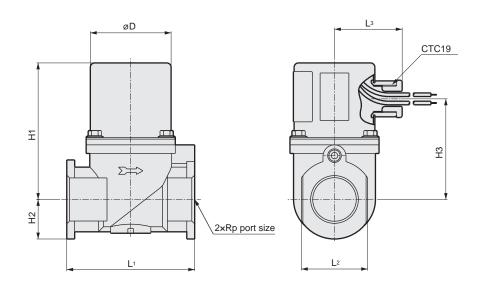


Cannot be disassembled

Part 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

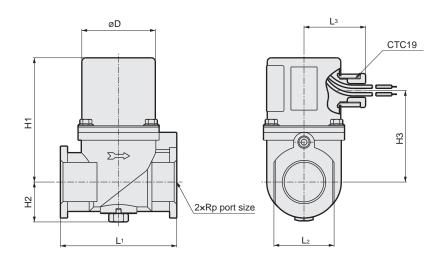
StandardDSG-15 to 25



Code Model No.	Port size	H ₁	H ₂	Нз	Lı	L ₂	L₃	øD
DSG-15	1/2	91	17.5	67	69	32	47	56
DSG-20	3/4	95	27.5	71	89	46	47	56
DSG-25	1	95	27.5	71	89	46	47	56

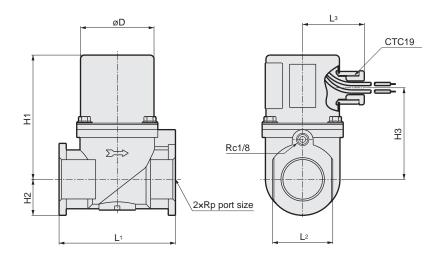
Optional dimensions

With flow rate adjustment DSG-15 to 25-Y



Code	Port	H ₁	H ₂	Нз	L ₁	L ₂	L3	øD
Model No.	size	•••	112	113				
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	Port	H ₁	H ₂	Нз	L ₁	L ₂	1.	øD
Model No.	size	1717	1712	F13	Li	L2	L 3	טש
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



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 (Open when energized)
- 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 dust in front of the valve during piping.

Applications

- Gas boilers
- Industrial furnaces
- Gas absorption water coolers/heaters
- Drying furnaces
- Hydrogen-related devices (Only the option for hydrogen gas as the working fluid can be used.)
- Other

Specifications

Item	DSG-20-W	DSG-25-W					
Working fluid	City gas/LPG (hydrogen gas *1)						
Working pressure kPa		0 5					
Flow rate Specific gravity of city gas 0.65 m3/h (ANR)	10.5	14.0					
Cv	7.0	9.4					
Rated voltage V	100 AC _{-15%}	200 AC +10% -15%					
Frequency Hz	Common to	50 and 60					
Power consumption (apparent power) VA	16x2						
Ambient temperature °C	-20 to +60 (no freezing)						
Opening time s	s 0.5 or less						
Closing time s	1.0 o	r less					
Frequency cycles/min	30 o	rless					
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 kg	2.0	2.0					
Proof pressure MPa	0.1						
Degree of protection	IP 21 or equiv.						

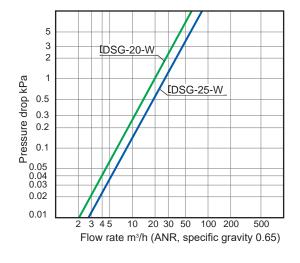
^{* 1:} Only the option for hydrogen gas as the working fluid can be used.

Code

AC100V

AC200V

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	0.65	1.6	2.0	0.07	
(air = 1)				0.0.	
Coefficient	1.0	0.63	0.57	3.04	

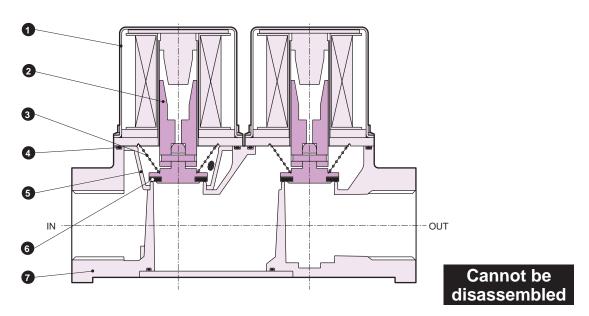
How to order DSG - 20 - W H2 - AC100V Model No. 1 Port size 2 Hydrogen compatible option 3 Voltage

1 Port size					
20	Rp3/4				
25	Rp1				
2 Hydrogen compatible option					
Blank	Standard				
H2	Working fluid: Hydrogen gas				
3 Voltac	3 Voltage				

100 VAC 50/60 Hz

200 VAC 50/60 Hz

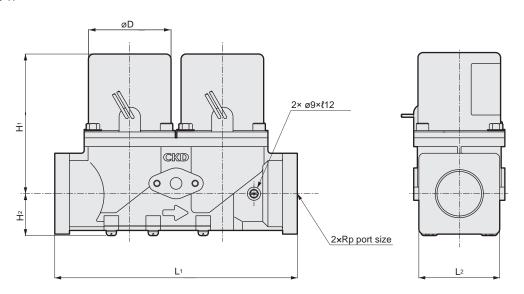
Description



Part 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	Hı	H2	L1	L ₂	øD
DSG-20-W	3/4	95	28.5	165	55	56
DSG-25-W	1	95	28.5	165	55	56