Catalog No. CE302-01

NDV BUTTERFLY VALVE

NIPPON DAIYA VALVE CO., LTD.

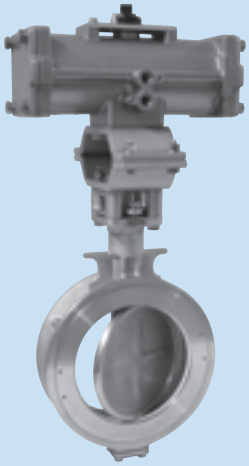
CONTENTS

PRODUCT GUIDE

Double Off-center Type: General Purpose Function Products

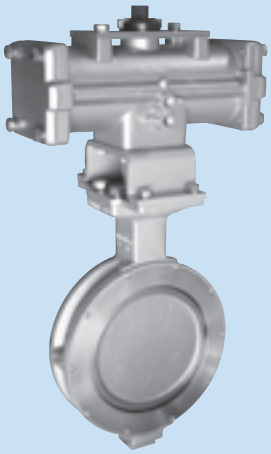
Stainless Steel High Performance Butterfly Valve

KM200 Series (page. 5 -)



Cast Iron Butterfly Valve

C201R Series (p. 11 -)

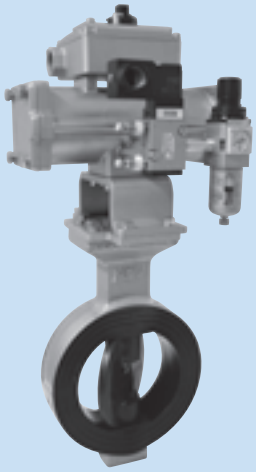


- The disk shaft has a double off-center mechanism toward the valve seat surface. This allows the smooth operation without forcible sliding or deformation of seat.
- Excellent “Sealing Performance” “Operability” and “Flow Rate Controllability”, and compact face-to-face dimension will provide ease of pipe installation.
- Manual Operation, Pneumatic Operation, Flow Control (*) and Electrical Operation (*) are applicable.

Optimum for Corrosion-Proof/ Chemical-Proof Purposes

PFA Lined Butterfly Valve

C559 Series (p.19 -)



- The surfaces of butterfly valve in contact with fluid are all made of PFA. The gland has the high sealing performance with a unique shaft sealing mechanism.
- Manual operation, Pneumatic operation, Flow control (*) and Electrical operation (*) are applicable.

Related Products

Powder/Granular Material Discharging: Sanitary Butterfly Valve

DC507C-SI (p.25 -)

- Butterfly valves developed for discharging the powder/granular material for containers used in pharmaceutical manufacturing plant.

Please feel free to contact our sales dept. or local representative for product specifications and details.

- (*): The flow control valves and electrically operated valves are provided as well. Please contact us for a detailed study.
- The pictures in this catalogue show the images of valves. The appearances may vary depending on the specification.

3 PFA LINED BUTTERFLY VALVE: C559

3-1. Standard Specifications

① Structures and Features
② Valve Specifications

3-2. Manually Operated Valve (Lever/Gear)

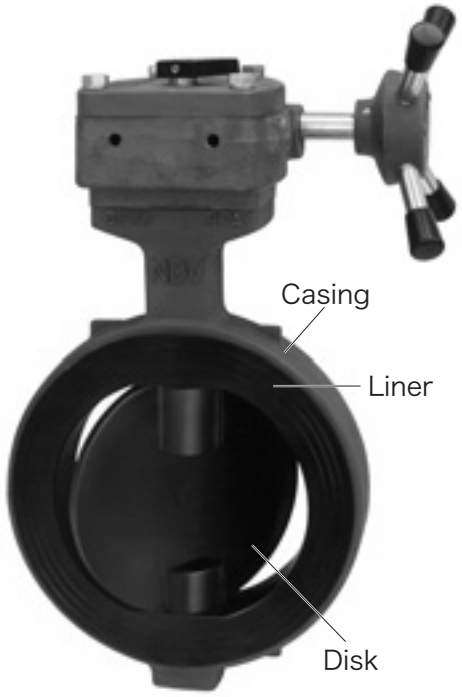
Major Dimensions

3-3. Pneumatically Operated ON-OFF Valve

① Actuator Selection Table
② Major Dimensions

▸3-1. Standard Specifications

① Structures and Features



❶ Excellent Anti-Corrosion/Anti-Chemical Performances

High reliability anti-corrosion butterfly valve completely lined with high heat stability melt molding PFA. All the parts contacting with fluid are structured with PFA and have high corrosion proof performance to most chemicals.

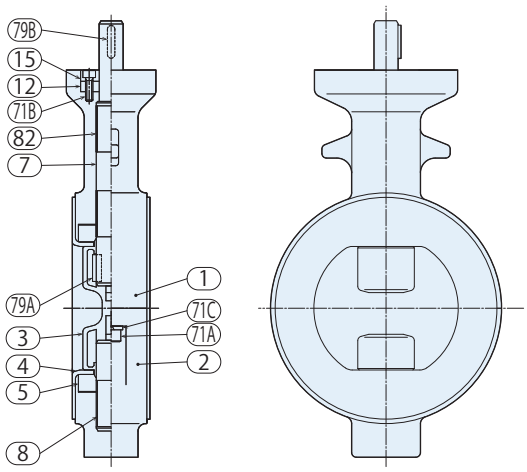
❷ High Shaft Seal Performance

With a gland mechanism having self-sealing property and wedge effect, a high shaft seal performance is ensured against the heat cycles and high frequency of open/close.

❸ Permeation Resistance and Non-Adherence

Thick lining processed by high pressure melt molding will offer a high reliability to chemical permeation. In addition, it will facilitate adhesion free processing for adhesive fluids.

[Standard Structural Materials: C559]



Parts		Material
1	Casing Body A	FCD450
2	Casing Body B	FCD450
3	Disk	FCD450 + PFA
4	Liner	PFA
5	Elastomer	Silicon Rubber
7	Stem	SUS420J2
8	Lower Stem	SUS420J2
12	Packing	Fluorine Rubber
15	Gland Flange	SS400
71A	Cap Screw	SUS304
71B	Cap Screw	SUS304
71C	Spring Washer	SUS304
79A	Key	S45C
79B	Key	S45CH
82	Bearing	SUS316 + PTFE

② Valve Specifications

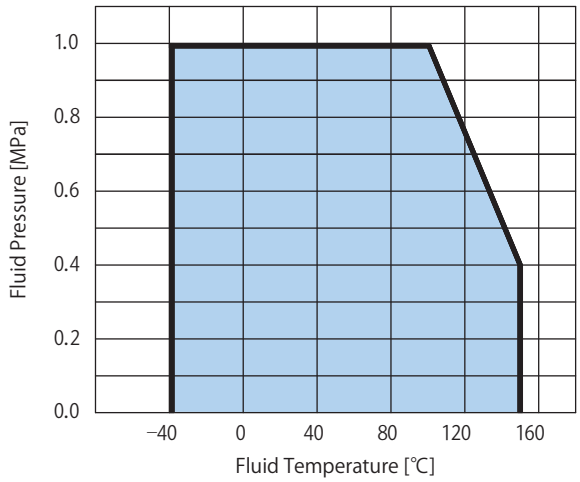
[Standard Specifications]

Valve Type		C559
Major Parts	Casing(Body)	FCD450
	Disk	FCD450 (PFA Lined)
	Liner	PFA
	Stem	SUS420J2
Disk Rotation Type		Center Disk
Flange Standards		JIS10K, CL150
Face-to-Face Dimensions		ISO 5752 Short (Basic Series No. 20)
Nominal Size (DN)		80 - 300
Pressure Range		0 - 1.0 MPa*1
Temperature Range		- 40℃ - 150℃
Operation Type		Lever operation, Gear operation, Pneumatically Operated ON-OFF Valve*2

*1 Avoid using for a vacuum application.
*2 Pneumatically operated control valves and electrically operated valves are available as well. Please contact us.

In case of export, export license stipulated in the Foreign Exchange and Foreign Trade Control Law of Japan and/or if necessary, export-related laws and regulations of the United States of America and other countries is required.

[Operating Pressure and Temperature Range]

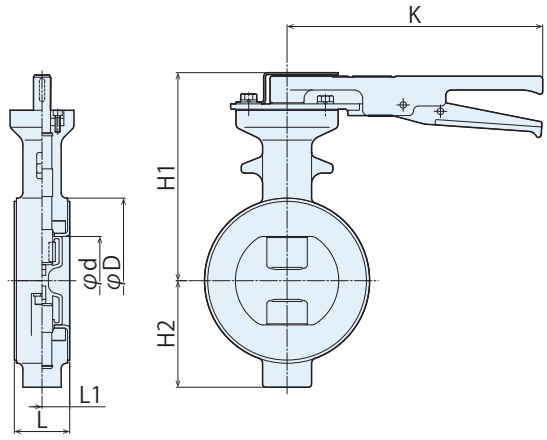


Avoid using for a vacuum application

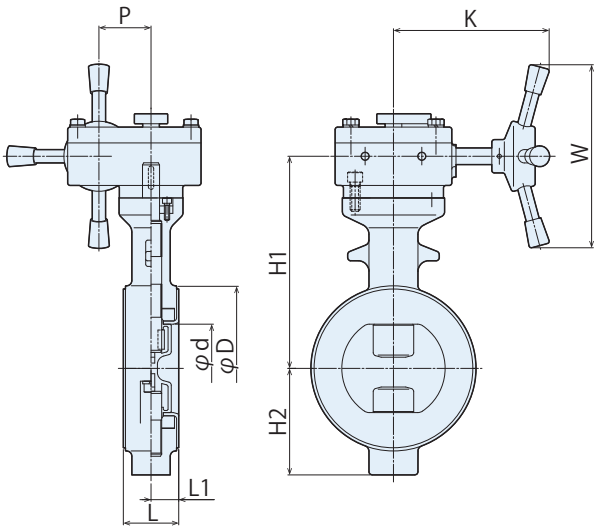
▶3-2. Manually Operated Valve (Lever/Gear)

Major Dimensions

[Lever Handle: CL559]



[Gear Operation: CG559]



Unit: mm

					CL559			CG559				
Nominal Size (DN)	d	D	L	H2	H1	K	Mass Approx. (kg)	H1	W	K	P	Mass Approx. (kg)
80	74	130	46	80	174	190	5.5	183	150	130	45	8.5
100	97	155	52	100	195	240	8.0	200	180	160	49	12.5
150	140	215	56	125	233	310	15.0	240	240	190	62.5	22.0
200	188	265	60	150	258	440	20.0	265	240	190	62.5	26.0
250	238	325	68	182	–	–	–	305	300	250	77	43.0
300	288	370	78	213	–	–	–	335	300	250	77	57.0

① Actuator Selection Table

The actuator specifications are common to KM200. Refer to page 8

Pneumatic operation pressure: 0.4 MPa

Double Acting: PN										
Nominal Size (DN)	Shutoff Differential Pressure (MPa)									
	0.2			0.4	0.5	0.6	0.8			1.0
80				PN-06DN						
100										
150				PN-08DN						
200				PN-10DN						
250				PN-12DN						
300							PN-18D			

Pneumatic operation pressure: 0.4 MPa

Reverse Acting: PO										
Nominal Size (DN)	Shutoff Differential Pressure (MPa)									
	0.2			0.4	0.5	0.6	0.8			1.0
80		PO-06DN4				PO-08DN4				
100		PO-08DN4				PO-10DN4				
150		PO-10DN4				PO-12DN4				
200		PO-12DN4				PO-13D4				
250		PO-13D4				PO-18D4				
300		PO-18D4				PO-22D4				

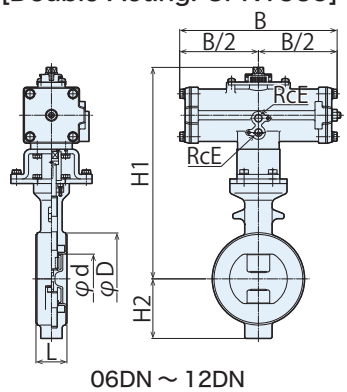
Pneumatic operation pressure: 0.4 MPa

Direct Acting: PCH										
Nominal Size (DN)	Shutoff Differential Pressure (MPa)									
	0.2			0.4	0.5	0.6	0.8			1.0
80		PCH-06DN4				PCH-08DN4				
100		PCH-08DN4				PCH-10DN4				
150		PCH-10DN4				PCH-12DN4				
200		PCH-12DN4				PCH-13D4				
250		PCH-13D4				PCH-18D4				
300		PCH-18D4				PCH-22D4				

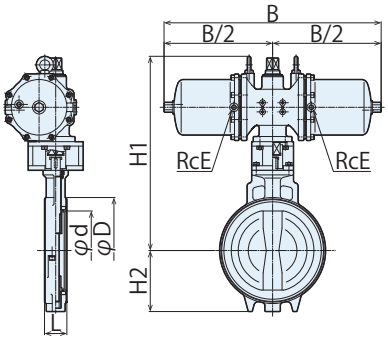
▶3-3. Pneumatically Operated ON-OFF Valve

② Major Dimensions

[Double Acting: CPN1559]



06DN ~ 12DN

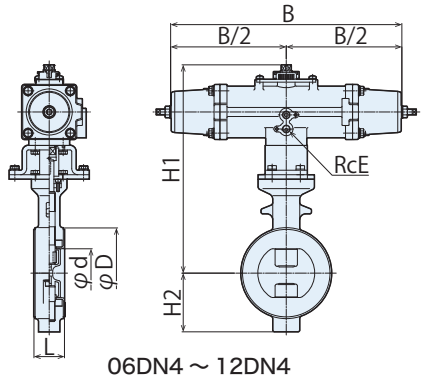


18D

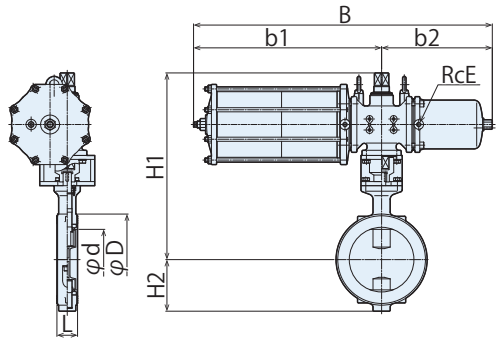
Unit: mm

Nominal Size (DN)	Actuator PN-	d	D	L	B	E	H1	H2	Mass Approx. (kg)
80	06DN	74	130	46	214	1/4	315	80	8.0
100	06DN	97	155	52	214	1/4	337	100	9.0
150	08DN	140	215	56	266	1/4	395	125	17.0
200	10DN	188	265	60	336	1/4	466	150	28.0
250	12DN	238	325	68	420	1/4	538	182	52.0
300	12DN	288	370	78	420	1/4	568	213	66.0
	18D	288	370	78	758	3/8	678	213	118.0

[Reverse Acting: CPO1559]



06DN4 ~ 12DN4

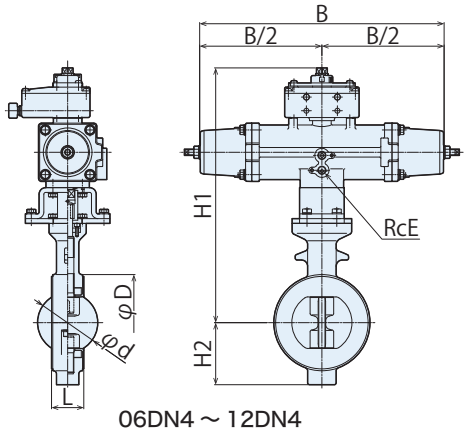


13D4 ~ 22D4

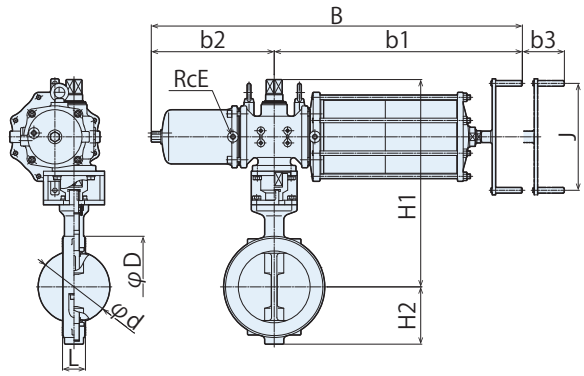
Unit: mm

Nominal Size (DN)	Actuator PO-	d	D	L	B	b1	b2	E	H1	H2	Mass Approx. (kg)
80	06DN4	74	130	46	314	-	-	1/4	315	80	9.5
	08DN4	74	130	46	392	-	-	1/4	336	80	13.0
100	08DN4	97	155	52	392	-	-	1/4	358	100	15.5
	10DN4	97	155	52	500	-	-	1/4	404	100	25.0
150	10DN4	140	215	56	500	-	-	1/4	441	125	32.0
	12DN4	140	215	56	634	-	-	1/4	472	125	46.0
200	12DN4	188	265	60	634	-	-	1/4	497	150	51.0
	13D4	188	265	60	869	547	322	1/4	543	150	87.0
250	13D4	238	326	68	869	547	322	1/4	582	182	100.0
	18D4	238	326	68	1013	634	379	3/8	648	182	160.0
300	18D4	288	370	78	1013	634	379	3/8	678	213	173.0
	22D4	288	370	78	1272	778	494	3/8	761	213	250.0

[Direct Acting: CPCH1559]



06DN4 ~ 12DN4



13D4 ~ 22D4

Unit: mm

Nominal Size (DN)	Actuator PCH-	d	D	L	B	b1	b2	b3	E	J	H1	H2	Mass Approx. (kg)
80	06DN4	74	130	46	314	-	-	-	1/4	-	371	80	10.5
	08DN4	74	130	46	392	-	-	-	1/4	-	393	80	14.0
100	08DN4	97	155	52	392	-	-	-	1/4	-	415	100	16.5
	10DN4	97	155	52	500	-	-	-	1/4	-	485	100	29.0
150	10DN4	140	215	56	500	-	-	-	1/4	-	522	125	36.0
	12DN4	140	215	56	634	-	-	-	1/4	-	553	125	50.0
200	12DN4	188	265	60	634	-	-	-	1/4	-	578	150	55.0
	13D4	188	265	60	972	650	322	110	1/4	280	543	150	91.0
250	13D4	238	326	68	972	650	322	110	1/4	280	582	182	104.0
	18D4	238	326	68	1139	760	379	128	3/8	460	648	182	166.0
300	18D4	288	370	78	1139	760	379	128	3/8	460	678	213	179.0
	22D4	288	370	78	1416	922	494	174	3/8	460	761	213	260.0

MEMO

4 INTRODUCTION OF RELATED PRODUCTS

▸4. Introduction of Related Products

① [Powder & Granular Product Discharging] Sanitary Butterfly Valves

[Features]

- Major parts are made of buffing finished stainless steel on both inner/outer surfaces that ensures an excellent washability with adhesion-free property for powder/granular materials.
- Lightweight design facilitates the ease of attaching and removing on containers or pipes.
- The clamp type mechanism facilitates the rapid assembly, disassembly, and ease of cleaning.

[Standard Specifications]

Type	DC507C-SI
Nominal Size (DN)	100 - 300
Valve Seat Air-Tightness	3 kPa
Valve Casing Durable Pressure	0.05 MPa
Working Temperature	Ordinary Temperature (Washable with hot water up to 80℃)
Connection Standard	Ferrule Type (DN100-200：Based on ISO/IDF) (DN250,300：for discussion)

∗Automatic Valve: Contact us for manufacturing of pneumatically operated ON-OFF valves.
∗Applicable only for powder & granular discharging.

② [Tablet Discharging] Sanitary Dampers

[Features]

- Major parts are made of buffing finished stainless steel on both inner/outer surfaces that ensures an excellent washability with adhesion-free property for tablets.
- Safe discharge of tablets ensured by the optimum shape and structure preventing the tablets from remaining.
- The tables are fed while the damper is closed and the damper is opened for discharging. The structure is designed in such a way that the tablets are not crushed.
- A stopper at the closing position securely maintains the precise position.

[Standard Specifications]

Type	DC507D
Nominal Size (DN)	150 (6.5S)
Connection Standard	Ferrule Type(Based on ISO/IDF)

Refer to a catalog "SANITARY TYPE PRODUCTS FOR MEDICAL PLANT" as well for details of products

③ Electrically Operated Valves

[Features]

- The valves of electrically operated specification are manufactured as well. Please contact our sales dept. or local representative for a detailed study.
- The part turn type various electrically operated products are provided such as SRH, SRJ, etc. by Seibu Electric & Machinery Co., Ltd., according to the specifications designated by the customer.
- A rich lineup of options such as electronically controlled devices for flow control, etc., are prepared.

5 TECHNICAL MATERIALS

5-1. Cv-value

5-2. Inherent Flow Characteristic

5-3. Pressure Loss

5-4. Actuator Selection Table:
Pneumatic Operation Pressure 0.3 MPa

5-5. Piping Bolt and Nut Dimensions

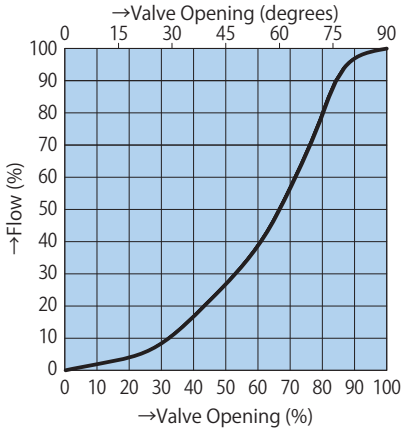
5-6. Product Code Descriptions

▶5-1. Cv-value

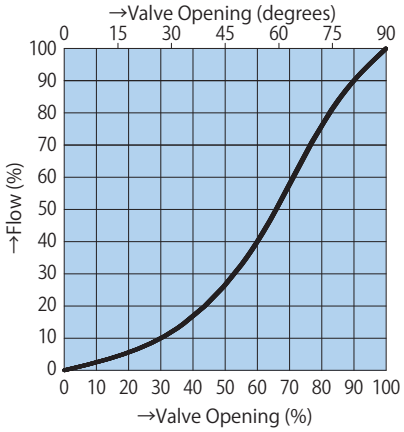
Nominal Size (DN) / Valve Type	50	65	80	100	125	150	200	250	300	350	400	450	500	600
KM200	60	100	190	380	730	1,250	2,400	4,000	5,800	7,400	9,400	12,000	18,000	22,100
C201R	–	153	244	390	640	870	1,700	2,810	4,170	5,300	6,720	–	–	–
C559	–	–	280	480	–	1,060	2,100	3,500	5,200	–	–	–	–	–

▶5-2. Inherent Flow Characteristic

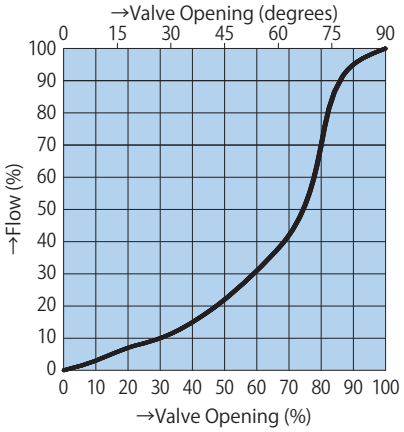
・KM200



・C201R



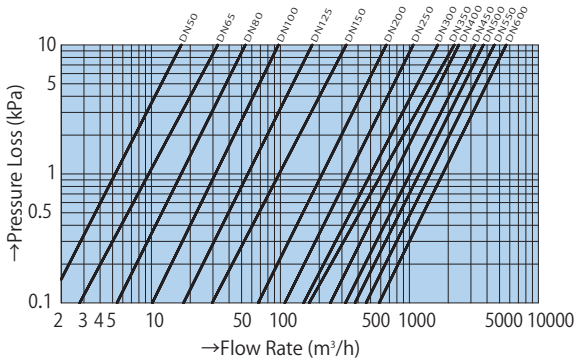
・C559



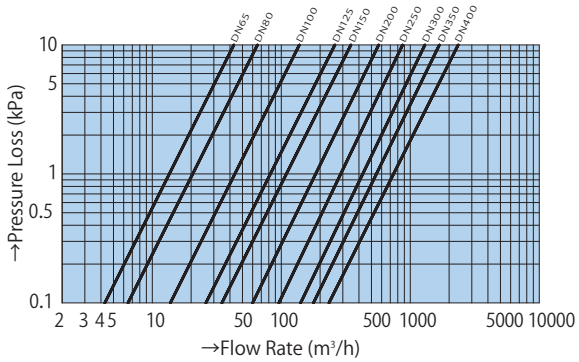
* Above graphs indicate the characteristics for nominal size 200.

▶5-3. Pressure Loss

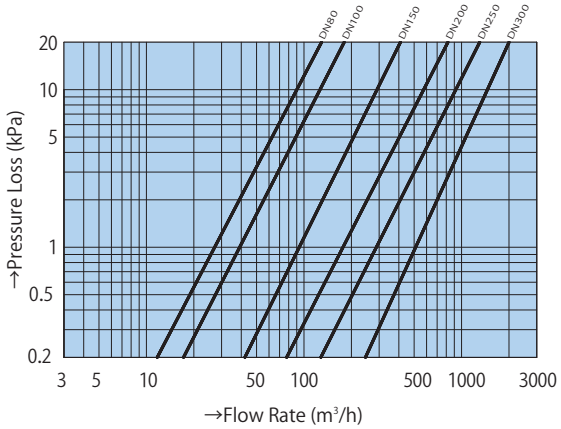
・KM200



・C201R



・C559



▶5-4. Actuator Selection Table: Pneumatic Operation Pressure 0.3 MPa

●KM200

Nominal Size (DN)	Double Acting: PN Shutoff Differential Pressure (MPa) 0.2	0.4	0.6	0.8	1.0	Single Acting (Reverse Acting: PO/Direct Acting: PCH) Shutoff Differential Pressure (MPa) 0.2	0.4	0.6	0.8	1.0
50										
65		06DN					08DN3			
80										
100							10DN3			
125		08DN								
150			10DN				12DN3			
200	10DN		12DN				13D3			
250	12DN		13D				18D3			
300	13D									
350							22D3			
400		18D								
450							25D3			
500										
600		22D								

●C201R

Nominal Size (DN)	Double Acting: PN PTFE Seat (TF) Shutoff Differential Pressure (MPa) 0.2	0.4	0.6	0.8	1.0	Synthetic Rubber Seat (AB, EP), Reinforced PTFE Seat (CF, CM) Shutoff Differential Pressure (MPa) 0.2	0.4	0.6	0.8	1.0
65	PN-04DN									
80		PN-05DN					PN-06DN			
100										
125		PN-06DN					PN-08DN			
150		PN-08DN					PN-10DN			
200										
250		PN-10DN					PN-12DN		PN-13D	
300					13D	PN-13D				
350		PN-12DN		13D						
400		PN-13D		PN-18D			PN-18D			PN-22D

Nominal Size (DN)	Reverse Acting: PO PTFE Seat (TF) Shutoff Differential Pressure (MPa) 0.2	0.4	0.6	0.8	1.0	Synthetic Rubber Seat (AB, EP), Reinforced PTFE Seat (CF, CM) Shutoff Differential Pressure (MPa) 0.2	0.4	0.6	0.8	1.0
65		PO-06DN3					PO-08DN3			
80										
100		PO-08DN3					PO-10DN3			
125							PO-12DN3			
150		PO-10DN3								
200		PO-12DN3					PO-13D3			
250							PO-18D3			
300		PO-13D3								
350							PO-22D3			
400		PO-18D3		PO-22D3				PO-25D3		

Nominal Size (DN)	Direct Acting: PCH PTFE Seat (TF) Shutoff Differential Pressure (MPa) 0.2	0.4	0.6	0.8	1.0	Synthetic Rubber Seat (AB, EP), Reinforced PTFE Seat (CF, CM) Shutoff Differential Pressure (MPa) 0.2	0.4	0.6	0.8	1.0
65		PCH-06DN3					PCH-08DN3			
80										
100		PCH-08DN3					PCH-10DN3			
125		PCH-10DN3					PCH-12DN3			
150										
200		PCH-12DN3					PCH-13D3			
250							PCH-18D3			
300		PCH-13D3								
350							PCH-22D3			
400		PCH-18D3		PCH-22D3				PCH-25D3		

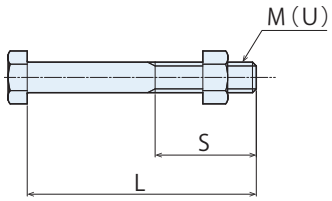
●C559

Double Acting: PN					
Nominal Size (DN)	Shutoff Differential Pressure (MPa)				
	0.2	0.4	0.6	0.8	1.0
80				PN-06DN	
100	PN-05DN			PN-08DN	
150	PN-08DN			PN-10DN	
200	PN-10DN			PN-12DN	
250	PN-12DN			PN-13D	
300	PN-13D			PN-18D	

Reverse Acting: PO					
Nominal Size (DN)	Shutoff Differential Pressure (MPa)				
	0.2	0.4	0.6	0.8	1.0
80			PO-08DN3		
100			PO-10DN3		
150			PO-12DN3		
200				PO-13D3	
250	PO-13D3			PO-18D3	
300	PO-18D3			PO-22D3	

Direct Acting: PCH					
Nominal Size (DN)	Shutoff Differential Pressure (MPa)				
	0.2	0.4	0.6	0.8	1.0
80			PCH-08DN3		
100			PCH-10DN3		
150			PCH-12DN3		
200				PCH-13D3	
250	PCH-13D3			PCH-18D3	
300	PCH-18D3			PCH-22D3	

▶5-5. Piping Bolt and Nut Dimensions



KM200, C201R, C559

Unit: mm

Nominal Size (DN)	JIS 5K				JIS 10K				CL 150			
	M	L	S	Q'ty	M	L	S	Q'ty	M	L	S	Q'ty
50	M12	95	30	4	M16	100	38	4	U 5/8	110	38	4
65	M12	95	30	4	M16	105	38	4	U 5/8	110	38	4
80	M16	100	38	4	M16	105	38	8	U 5/8	115	38	4
100	M16	110	38	8	M16	110	38	8	U 5/8	130	44	8
125	M16	110	38	8	M20	125	46	8	U 3/4	135	52	8
150	M16	115	38	8	M20	130	46	8	U 3/4	140	52	8
200	M20	130	52	8	M20	130	52	12	U 3/4	150	52	8
250	M20	140	52	12	M22	150	56	12	U 7/8	165	56	12
300	M20	150	52	12	M22	160	56	16	U 7/8	175	56	12
350	M22	160	56	12	M22	160	56	16	U 1	190	60	12
400	M22	180	56	16	M24	190	60	16	U 1	215	60	16
450	M22	190	56	16	M24	210	60	20	U 1･1/8-8	240	66	16
500	M22	210	56	20	M24	220	60	20	U 1･1/8-8	260	66	20
600	M24	240	60	20	M30	260	85	20	U 1･1/4-8	300	66	20
	–	–	–	–	M30	70	66	8	–	–	–	–

Note 1: "U" stands for "unified screw (UNC)"
Note 2: Bolt lengths in this table are based on steel flanges for piping used with 3 mm thick gasket between them.

▶5-6. Product Code Descriptions

[KM200: Fundamental System of Product Codes]

K	M	P N	1	2	0	7		–	GR	–	2	0	0	–	10DN	–	J10K
		①	②		③		④		⑤		⑥				⑦		⑧

KM200 (Stainless Steel High Performance Butterfly Valve)

① Operation mode

L	Lever Handle
G	Gear Operation
PN	Double Acting
PO	Reverse Acting (Air to Open/Spring to Close)
PCH*	Direct Acting (Air to Close/Spring to Open)

* Direct Acting (PC) comes with H (Manual Handle) as a standard.

② Operation Type

Blank	Manual Operation (Lever Handle/Gear Operation)
1	Pneumatic Operation

③ Main Body Material

07	SCS13A (Standard)
12	SCS14A
13	SCS16A

④ Body Structure

Blank	JIS5K, 10K (Standard)
V	JIS20K, CL150

⑤ Seat Material – Refer to page 6

GR	PTFE with Glass Fiber: White (Standard)
CF	PTFE with Special Carbon: Black

⑥ Nominal Size (DN or A)

In accordance with ISO 6708 and JIS B 2001

⑦ Actuator Code

⑧ Connection Standard

J05K	JIS 5K (Standard)
J10K	JIS10K (Standard)
J20K	JIS20K
A150	CL150

[C200R: Fundamental System of Product Codes]

C	P N	1	2	0	1	R	–	TF	–		–	2	0	0	–	12DN	–	J10K
	①	②		③				④		⑤		⑥				⑦		⑧

C200R (Cast Iron Butterfly Valve)

① Operation mode

L	Lever Handle
G	Gear Operation
PN	Double Acting
PO	Reverse Acting (Air to Open/Spring to Close)
PCH*	Direct Acting (Air to Close/Spring to Open)

*Direct Acting (PC) comes with H (Manual Handle) as a standard.

② Operation Type

Blank	Manual Operation (Lever Handle/Gear Operation)
1	Pneumatic Operation

③ Main Body Material

01	FC200

④ Seat Material – Refer to page 12

AB	Nitrile Rubber (NBR)
EP	EPDM
TF	PTFE + EPDM
CF	Reinforced PTFE with Carbon Fiber + EPDM
CM	Reinforced PTFE with Carbon Fiber + SUS304

⑤ Packing Material

Blank	Nitrile Rubber (NBR) (Standard)
EP	EPDM
VT	Fluorine Rubber (FKM)

⑥ Nominal Size (DN or A)

In accordance with ISO 6708 and JIS B 2001

⑦ Actuator Code

⑧ Connection Standard

J05K	JIS5K
J10K	JIS10K

[C559: Fundamental System of Product Codes]

C	P N	1	5	5	9	–	1	5	0	–	10DN	–	J10K
	①	②		③				④			⑤		⑥

C559 (PFA Lined Butterfly Valve)

① Operation mode

L	Lever Handle
G	Gear Operation
PN	Double Acting
PO	Reverse Acting (Air to Open/Spring to Close)
PCH*	Direct Acting (Air to Close/Spring to Open)

*Direct Acting (PC) comes with H (Manual Handle) as a standard.

② Operation Type

Blank	Manual Operation (Lever Handle/Gear Operation)
1	Pneumatic Operation

③ Main Body Material

59	PFA Lined

④ Nominal Size (DN or A)

In accordance with ISO 6708 and JIS B 2001

⑤ Actuator Code

⑥ Connection Standard

J10K	JIS10K
A150	CL150

Listed above is the fundamental coding system for our products. A code other than the above may be added for a production based on special specifications. Please contact our sales dept. or local representative for any questions regarding the details of product codes.

MEMO

6 SAFETY INSTRUCTIONS

1. Precautions for Selection of Valves

(1) The range of use for the products in this catalog is specified in accordance with official standards and our company's standards. Please check the conditions for use (fluids, pressure, temperature, etc.) and select the optimum product.

(2) Please check the conditions for use (fluid name and temperature) for the materials for major parts, and select proper materials.

(3) The oil free or water free specifications shall be designated when ordering (Some of the products may not be adapted for oil free or water free specifications.).

2. Precautions for Receiving and Conveying

(1) Please check that the packing and wrapping are not damaged and the goods and quantity are according to the invoice when receiving. If any damage on the packing and wrapping is observed, please contact us.

(2) The product may be very heavy depending on the nominal size. Please use a proper lifting device for unloading and conveying in accordance with the Industrial Safety and Health Act. In addition, never enter under a lifted load, insert a hand or leg under the lifted load, nor operate the lifting device.

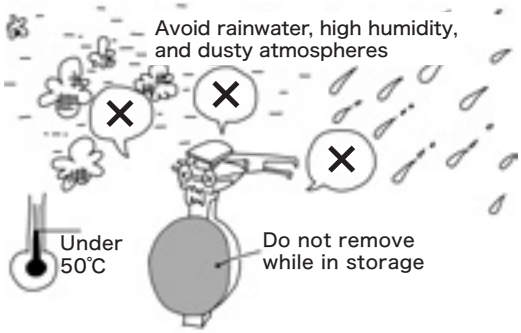
(3) The package strength of cardboard box may be degraded when wet. Please be careful enough for handling when a cardboard box contains moisture.

3. Precautions for Storage

(1) It is recommended to store the goods in a packed status until the installation on the pipework.

(2) If the goods are to be in storage for a certain period after having been taken out of package, do not remove the dustproof seal affixed on connecting end surfaces.

(3) Please store under following conditions for the purpose of rust prevention and prevention of deterioration of plastics.



1) Keep out of the rain

2) The ambient temperature shall not be higher than 50℃ (The allowable ambient temperature may vary depending on the specifications of mounted accessories.)

3) Avoid a highly humid or dusty atmosphere

4. Precautions for Installation on Pipework

(1) Remove the dustproof seal covering the connecting ends of main body and check for no stain inside and no adhesion of foreign substances. Also, confirm the cleanliness and the absence of foreign substances in the pipeline on which the valve is to be installed, and conduct gas blowing or liquid flushing as necessary.

(2) Be sure to install a valve between flanges.

(3) C201R valves have a direction. Install pipes in accordance with the indication on the main body. KM200 valves do not have an indication on the main body, but the valve stem side shall be on the primary side if the fluid is steam or the fluid speed is not lower than 3 m/s. Further, pay attention on the mounting direction of valve stem in the piping conditions shown in Fig. 1.

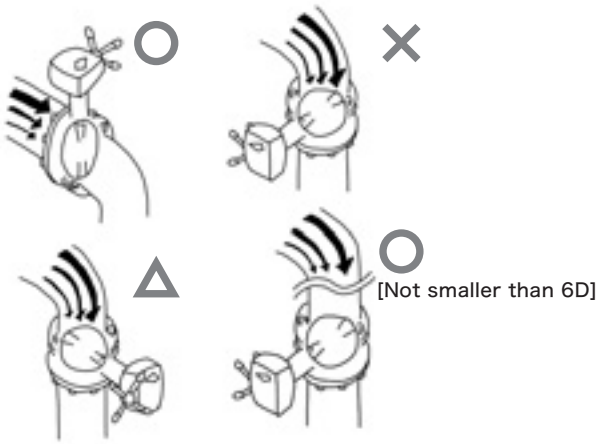


Fig. 1.

(4) Open the valve to full flow for pressure durability test of pipework (test exceeding the rated pressure).
(5) Never use a fully closed valve as a blind flange.
(6) Avoid installing a valve with the actuator facing to the bottom. If the actuator is facing to the side, add a support.
(7) Install the pipework after the welded pipe flanges have cooled down. Never weld a flange with a valve mounted.
(8) The valves are shipped in a fully closed status as far as not designated otherwise. Install a valve on the pipework as it is fully closed. The direct acting pneumatically operated valves are also shipped in a fully closed status using a manual operation device. After installation on the pipework, use it after fully opening with a manual handle.
(9) Install a valve while avoiding an abnormal tension, compression or bending stresses on a valve.
(10) Use a gasket for piping conforming to the fluid specification. If a special gasket such as spiral gasket, etc. is to be used, please contact us.
Use a PTFE packed gasket for Type C559 (PFA Lined).
(11) When installing a valve on pipework, check for no interference of valve disk with gasket or flange inside surfaces when the valve is opened. The bolts for pipework shall be tightened alternately and uniformly in a diagonal pattern. Uneven tightening of piping bolts may cause leakage from the connected flange surfaces. Refer to this catalog or each handling manual for piping bolt sizes.
(12) Check for no loosening of fixing bolts. Re-tighten if loose.
(13) For blowing inside a pipe, mount a short pipe of same length as the valve.
If it is unavoidable to blow the pipework with a valve installed in it, do not open/close the valve during blowing.

5. Precautions for Handling and Operation

(1) Do not operate with an excessive torque such as using an additional pipe or a wrench on the lever handle when opening/closing.
(2) Never insert your fingers or hands inside a valve.
(3) If a leakage from gland is observed, re-tighten the gland retaining bolts. If a valve is used for a fluid having large temperature fluctuation, re-tighten after rising and falling of temperature because the stress relaxation level for packing is large.
(4) If some quantity of fluid remains in a valve and is frozen, the product may be damaged.
Whenever a pipeline would be frozen, keep the pipeline warm for prevention of freezing or remove the fluid in the valve.

6. Precautions on Actuator for Pneumatically/Electrically Operated Valves

(1) A seal is applied on the ports for air and wiring. Do not remove these seals until the connecting joints are attached.
(2) The actuator is adjusted before shipping. Do not disassemble or readjust it. If an adjustment is required, please contact us.
(3) Use the filtered clean operating air as well as dehumidifying the air.
(4) Confirm the operating pressure or operating power source in the name plate on the product or delivery specifications.
(5) Pay attention not to let rainwater, etc. in the air breathing port of actuator.

7. Precautions for Disassembling and Assembling

(1) Discharge the fluid in the pipework before removing a valve from a pipework, and depressurize. Pay special attention when handling a hazardous fluid such as toxic or corrosive fluids.
(2) When disassembling and assembling, pay attention not to damage the sealing zone of valve element (disk) sealing surface or piping end surfaces, etc.

● The ISO 9001 · 14001 certificate was awarded

ISO 9001 99QR-167
ISO 14001 08ER-701

⚠ CAUTION

Specifications and performance figures of products contained in this catalog are on the design calculations, in-house tests, actual records of product application, and the official standards and specifications. They are presented as the user guide on the use of product concerned under general service conditions. Users intending to use the product under a special condition are required to receive engineering advice from this company in advance or to make their own studies and evaluation to verify performance on their own responsibility. This company shall not be liable for any damages, material or human, that may arise without following this procedure. In as much as full care was taken in editing this catalog, users are kindly requested to make contact with this company for any questions or discrepancies found. This catalog is subject to change without notice for the purpose of correcting error, supplementing or improving insufficient content, updating the content to the improved product performance, design change, discontinuation of product and other reasons. Revised version automatically invalidates catalogs issued prior to the current version. Check the version with our Sales Dept. or local representative before you place orders.

⚠ WARNING ⚠ CAUTION

There are several points to be noticed for the use of butterfly valve based on the structural characteristics. When valve is delivered, a leaflet for Safety Instructions is in the package. Please read this instruction thoroughly before handling and use of products in order to use them safely and stably for a long time.

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