

DGV PRODUCT CATALOGUE

Butterfly Valve Manufacturer

Main Products

- High Performance
- Concentric
- Lined



DGV CO., LTD.
Butterfly Valve Manufacturer

Our Vision

Leading the industry with **reliable performance and excellent quality**
We provide the best **butterfly valve solutions**

We, DGV Co., Ltd., are a specialized company that manufactures and supplies high-quality butterfly valves. With over 30 years of technology and experience, we provide our customers with safe and reliable products.

As flow control plays an important role in fluids, our butterfly valves are recognized for their value through precise design and excellent quality control.

In addition, we are further enhancing the performance of our products through continuous technological innovation and quality improvement to deliver great values that exceeds customer expectations.

We will contribute to develop our industry and do our best to be an honest and trustworthy company.

Thank you for considering us as your business companion and with the support from our company, we sincerely hope that all your upcoming projects will be successful.

Thank you

DGV CO., LTD.

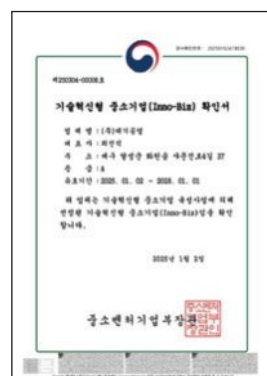
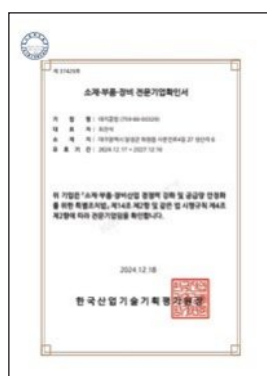
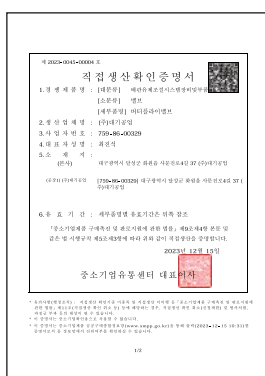
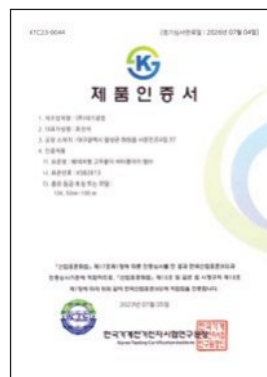
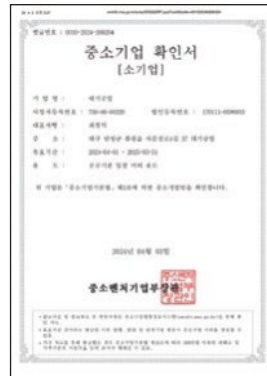
CEO **Jin Seok, Choi**

최진석



Certificates

www.dgvalve.co.kr



Butterfly Valve (High performance, Double eccentric)



Butterfly Valve (Concentric)



Butterfly Valve (Lined)



Bare

Manual (Gear)

Manual (Lever)

Overview



Automatic
(Pneumatic, double)

Automatic
(Pneumatic, single)

Automatic
(Electric)



Product Introduction

Butterfly Valve (High performance, double eccentric)

Product Features and Advantages

- Suitable for controlling high pressure and high temperature fluids.
- Compared to other valves, it requires less space and convenient for installation and maintenance.
- For good expandability, the top flange specifications are standardized and multiple operating devices can be installed.
- The disc is designed as a double off-set to have high fluidity and low operating torque, minimizing seat damage.
- Composed of precision-machined seat and disc with increased processing roughness, they adhere tightly to provide the best sealing effect.
- By fixing the disc to the valve shaft, opening and closing is possible with consistent sealing and low resistance.
- All valves are shipped after passing the LEAK test at the specified pressure.
- KS(JIS) 10K and 20K, ANSI #150 and #300 International standard dimension applied.

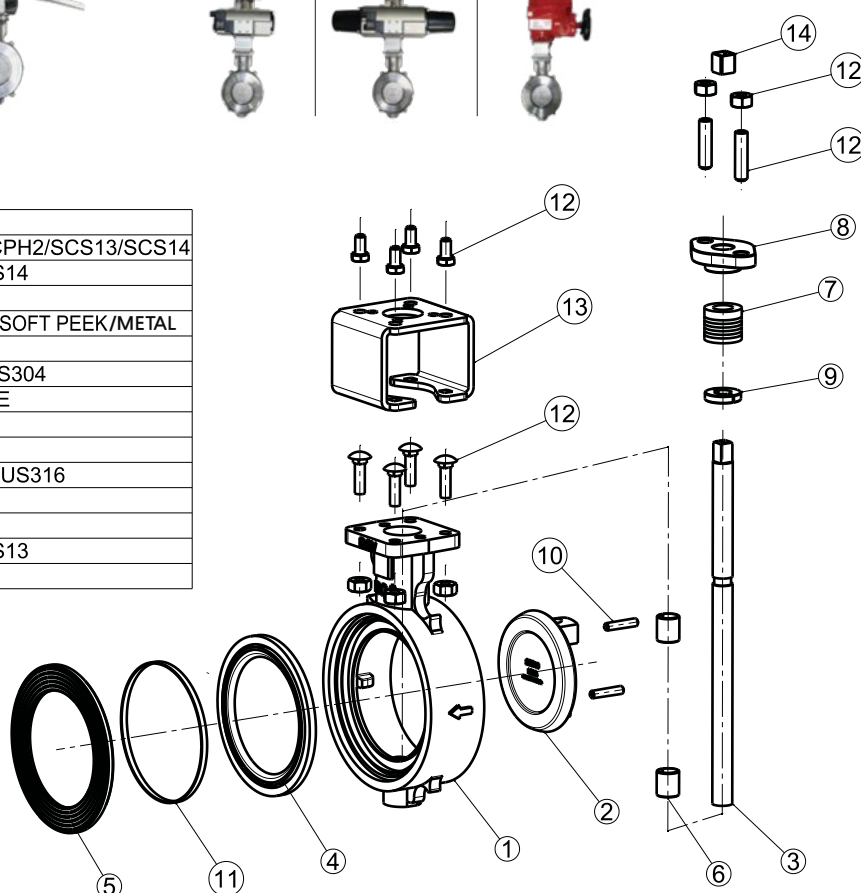
Manual



Automatic



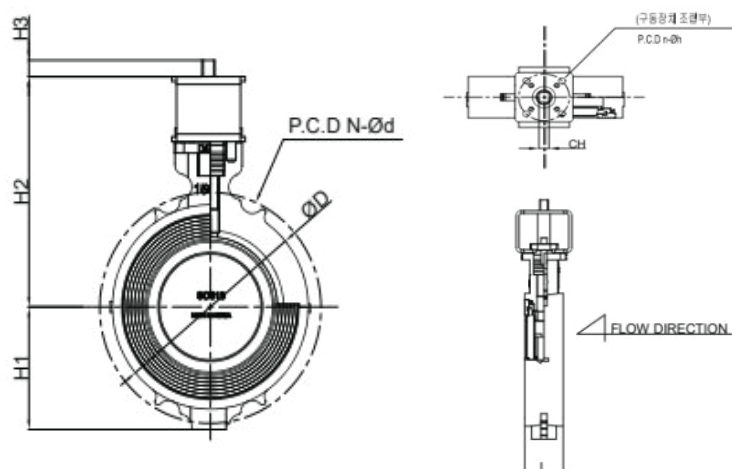
Number	Part Number	Material
1	Body	FCD450/SCPH2/SCS13/SCS14
2	Disc	SCS13/SCS14
3	Shaft	SUS304
4	Seat	RTFE/PTFE/SOFT PEEK/METAL
5	Cover	SCS13
6	Body Bush	STEEL/ SUS304
7	V-packing	RTFE+PTFE
8	Packing Bush	SCS13
9	Couple Ring	SCS13
10	Taper Pin	SUS303F/SUS316
11	Seat Ring	SCS13
12	Bolt&Nut	SCS13
13	Bracket	STEEL/SCS13
14	Adapter	STEEL



Bare Type

Product Features

- Can be used in both blocking and proportional control
- Guaranteed compatibility with various actuators (Top Flange ISO 5211)
- There are no restrictions on the direction of the actuator by using a square axis
- Excellent durability due to the interface thickness
- Excellent corrosion resistance compared to low-cost bolts by using stainless steel bolts



Product Specification

Size		Dimension(mm)						Actuator assemble part					
mm	inch	L	ØD	PCD (N-Ød)	H1	H2	ISO	CH	Adapter	H3	PCD (n-Øh)		
32/40	1.25 / 1.5	37 (35)	86	100 4-Ø19	66	159	F07	9	11	14	70	4-Ø10	
50	2	44 (39)	99	120 4-Ø19	64	162	F07	9	11	14	70	4-Ø10	
65	2.5	44 (39)	119	140 4-Ø19	71	173	F07	9	11	14	70	4-Ø10	
80	3	44 (39)	129	150 8-Ø19	78	177	F07	9	14	18	70	4-Ø10	
100	4	52 (48)	152	175 8-Ø19	91	203	F07	11	14	18	70	4-Ø10	
125	5	62 (54)	184	210 8-Ø19	109	226	F07	14	17	18	70	4-Ø10	
150	6	62 (54)	214	240 8-Ø19	128	241	F07	14	17	18	70	4-Ø10	
200	8	75 (68)	260	290 12-Ø23	156	284	F10	22	X	27	102	4-Ø12	
250	10	92 (78)	321	355 12-Ø25	198	327	F10	22	X	27	102	4-Ø12	
300	12	100	362	400 16-Ø25	224	374	F12	27	X	30	125	4-Ø14	
350	14	107 / 101	410	445 16-Ø25	252	403	F12	27	X	30	125	4-Ø14	
400	16	120 / 102	480	510 16-Ø27	354	471	F14 / F16	36	X	40	140/165	4-Ø18 / Ø23	
450	18	120 / 112	530	565 20-Ø27	379	496	F14 / F16	36	X	40	140/165	4-Ø18 / Ø23	
500	20	120 / 124	590	620 20-Ø27	364	535	F14 / F16	36	X	40	140/165	4-Ø18 / Ø23	
550	22	120	640	680 20-Ø33	417	560	F14 / F16	36	X	40	140/165	4-Ø18 / Ø23	
600	24	140	690	730 24-Ø33	445	582	F16	46	X	50	165	4-Ø23	

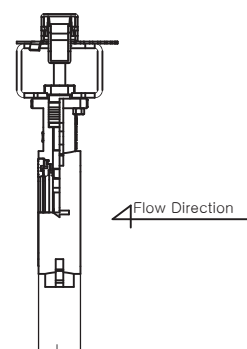
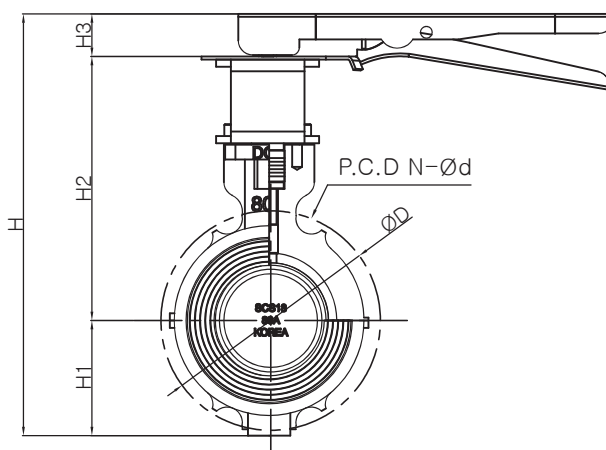
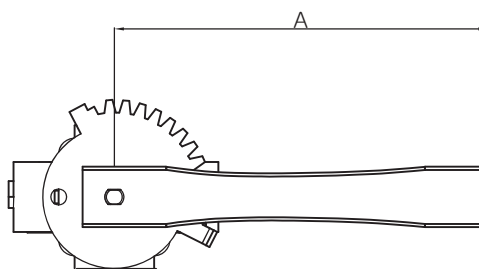
* L refers to the interface dimension (Company standard, FCD / SCPH2 / SUS)
* () refers to the possible interface dimension that can be processed

* Body ranged 32/40 ~ 200mm is used as common for both 10K/20K
* Can be manufactured up to 800mm

Lever Type

Product Features

- Open/close manually and assembled with gear box
- Cast iron handle, SUS handle is available
- Locking device and limit switch can be attached



Product Specification

Size		Dimension(mm)								
mm	inch	L	ØD	PCD (N-Ød)	A	H1	H2	H3	H	
32/40	1.25 / 1.5	37 (35)	86	100	4-Ø19	235	66	159	33	258
50	2	44 (39)	99	120	4-Ø19	235	64	162	33	259
65	2.5	44 (39)	119	140	4-Ø19	235	71	173	33	277
80	3	44 (39)	129	150	8-Ø19	235	78	177	33	288
100	4	52 (48)	152	175	8-Ø19	260	91	203	33	327
125	5	62 (54)	184	210	8-Ø23	260	109	226	33	368
150	6	62 (54)	214	240	8-Ø23	260	128	241	33	402

* L refers to the interface dimension (Company standard)

* () refers to the possible interface dimension that can be processed

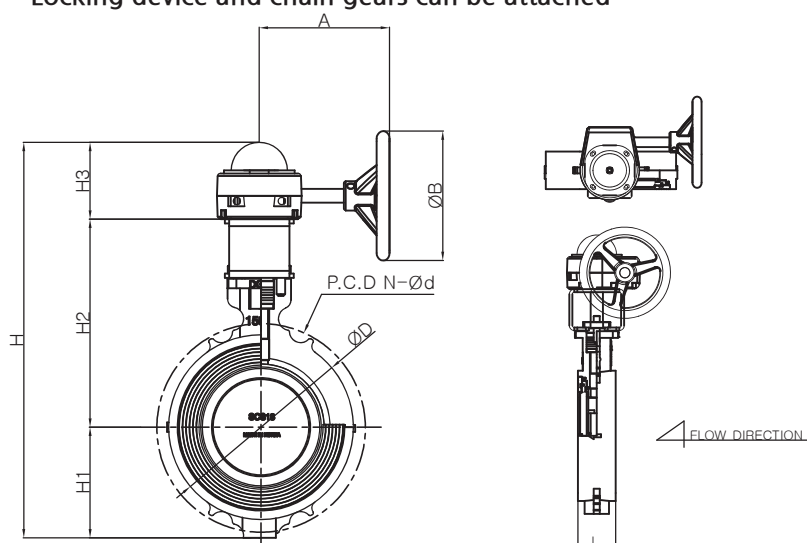
* Body ranged 32/40 ~ 200mm is used as common for both 10K/20K

Gear Type

Product Features



- Open/close manually and assembled with gear box
- Equipped with a visual gearbox which allows to easily be seen from certain distance
- Easy to install in pipes using JIS 10K, 20K common body
- Locking device and chain gears can be attached



Product Specification

Size		Dimension(mm)									
mm	inch	L	ØD	PCD (N-Ød)	A	ØB	H1	H2	H3	H	
32/40	1.25 / 1.5	37 (35)	86	100	4-Ø19	151	150	66	159	94	319
50	2	44 (39)	99	120	4-Ø19	151	150	64	162	94	320
65	2.5	44 (39)	119	140	4-Ø19	151	150	71	173	94	338
80	3	44 (39)	129	150	8-Ø19	151	150	78	177	94	349
100	4	52 (48)	152	175	8-Ø19	151	150	91	186	94	371
125	5	62 (54)	184	210	8-Ø23	151	150	109	209	94	412
150	6	62 (54)	214	240	8-Ø23	151	150	128	224	94	446
200	8	75 (68)	260	290	12-Ø23	232	250	156	264	115	535
250	10	92 (78)	321	355	12-Ø25	232	250	198	305	115	618
300	12	100	362	400	16-Ø25	357	300	224	344	123	691
350	14	107 / 101	410	445	16-Ø25	357	300	252	371	123	746
400	16	120 / 102	480	510	16-Ø27	357	351.5	354	471	123	948
450	18	120 / 112	530	565	20-Ø27	357	351.5	379	496	123	998
500	20	120 / 124	590	620	20-Ø27	357	351.5	364	535	123	1022
550	22	120	640	680	20-Ø33	357	351.5	417	560	123	1100
600	24	140	690	730	24-Ø33	357	351.5	445	582	123	1150

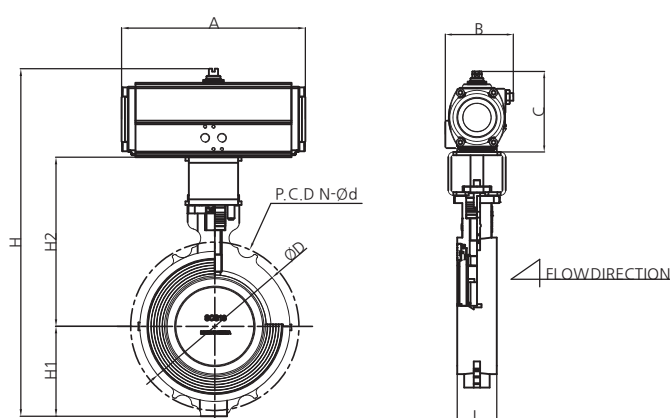
* L refers to the interface dimension (Company standard, FCD / SCPH2 / SUS)
 * () refers to the possible interface dimension that can be processed

* Body ranged 32/40 ~ 200mm is used as common for both 10K/20K
 * Can be manufactured up to 800mm

Pneumatic Type

Product Features

- Open/close automatically and attached with pneumatic actuator
- According to order specifications, various actuators and accessories can be attached
 - * Product is delivered after clearing operation test
- Compact design allows installation even in narrow space
- There is a wide range of actuator choices due to low torque value



Product Specification

Size		Dimension(mm)									
mm	inch	L	ØD	PCD (N-Ød)	A	B	C	H1	H2	H	
32/40	1.25 / 1.5	37	86	100	4-Ø19	162	79	90	66	159	315
50	2	44	99	120	4-Ø19	162	79	90	64	162	316
65	2.5	44	119	140	4-Ø19	162	79	90	71	173	334
80	3	44	129	150	8-Ø19	202	93	106	78	177	361
100	4	52	152	175	8-Ø19	202	93	106	91	203	400
125	5	62	184	210	8-Ø23	262	106	126	109	226	461
150	6	62	214	240	8-Ø23	262	106	126	128	241	495
200	8	75	260	290	12-Ø23	311	139	148	156	284	588
250	10	92	321	355	12-Ø25	390	157	174	198	327	699
300	12	100	362	400	16-Ø25	431	178	192	224	374	790
350	14	107 (101)	410	445	16-Ø25	431	178	192	252	403	847
400	16	102	480	510	16-Ø27	506	207	216	354	471	1041
450	18	112	530	565	20-Ø27	581	233	244	379	496	1119
500	20	124	590	620	20-Ø27	605	258	284	364	535	1183
550	22	120	640	680	20-Ø33	605	258	284	417	560	1261
600	24	140	690	730	24-Ø33	755	328	335	445	582	1362

* L refers to the interface dimension (Company standard, FCD / SCPH2 / SUS)
 * () refers to the possible interface dimension that can be processed

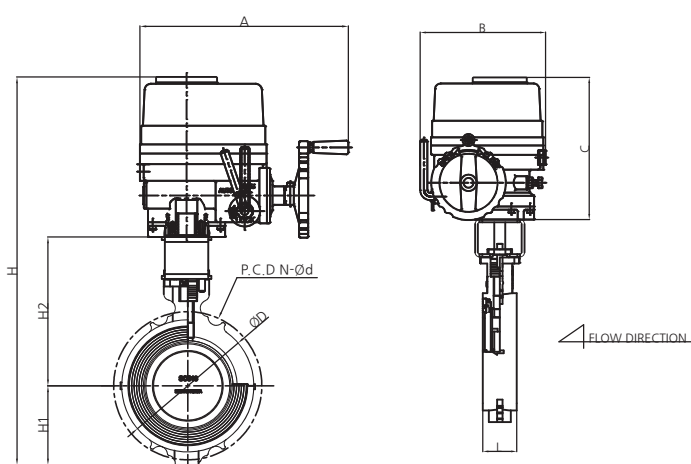
* Body ranged 32/40 ~ 200mm is used as common for both 10K/20K
 * Can be manufactured up to 800mm

Electric Type



Product Features

- Open/close automatically and attached with electric actuator
- According to order specifications, various actuators and accessories can be attached
 - * Product is delivered after clearing operation test
- Compact design allows installation even in narrow space
- There is a wide range of actuator choices due to low torque value



Product Specification

Size		Dimension(mm)									
mm	inch	L	ØD	PCD (N-Ød)	A	B	C	H1	H2	H	
32/40	1.25 / 1.5	37 (35)	86	100	4-Ø19	258	172	245	66	159	470
50	2	44 (39)	99	120	4-Ø19	258	172	245	64	162	471
65	2.5	44 (39)	119	140	4-Ø19	258	172	245	71	173	489
80	3	44 (39)	129	150	8-Ø19	258	172	245	78	177	500
100	4	52 (48)	152	175	8-Ø19	258	172	245	91	203	539
125	5	62 (54)	184	210	8-Ø23	338	229	284	109	226	619
150	6	62 (54)	214	240	8-Ø23	338	229	284	128	241	653
200	8	75 (68)	260	290	12-Ø23	357	244	313	156	284	753
250	10	92 (78)	321	355	12-Ø25	357	244	313	198	327	838
300	12	100	362	400	16-Ø25	380	284	338	224	374	936
350	14	107 / 101	410	445	16-Ø25	380	284	338	252	403	993
400	16	120 / 102	480	510	16-Ø27	440	375	385	354	471	1210
450	18	120 / 112	530	565	20-Ø27	440	375	385	379	496	1260
500	20	120 / 124	590	620	20-Ø27	440	375	385	364	535	1284
550	22	120	640	680	20-Ø33	516	417	668	417	560	1645
600	24	140	690	730	24-Ø33	516	417	668	445	582	1695

* L refers to the interface dimension (Company standard, FCD / SCPH2 / SUS)
* () refers to the possible interface dimension that can be processed

* Body ranged 32/40 ~ 200mm is used as common for both 10K/20K
* Can be manufactured up to 800mm



Product Introduction

Butterfly Valve (Concentric)

Product Features and Advantages

- Pin-less structure overcomes disc coating and forming limitations.
- As there is no empty space inside the disc in 1stem form, it is easy to manufacture by eliminating the cause of leakage and simplifying the structure.
- Excellent corrosion resistance compared to low-cost bolts by using stainless steel bolts.
- There are no restrictions on the direction of the actuator by using a square axis.
- Excellent durability against high pressure due to use of hard seat.
- Multiple O-rings used to prevent shaft leakage.
- There is a mark on the top of the shaft which enables axial guidance after piping connection.
- Can be manufactured from various body materials (cast iron, cast steel, stainless steel, aluminum, etc.)
- It can be installed in a small space, has no failure rate due to its simple structure and is easy to repair.

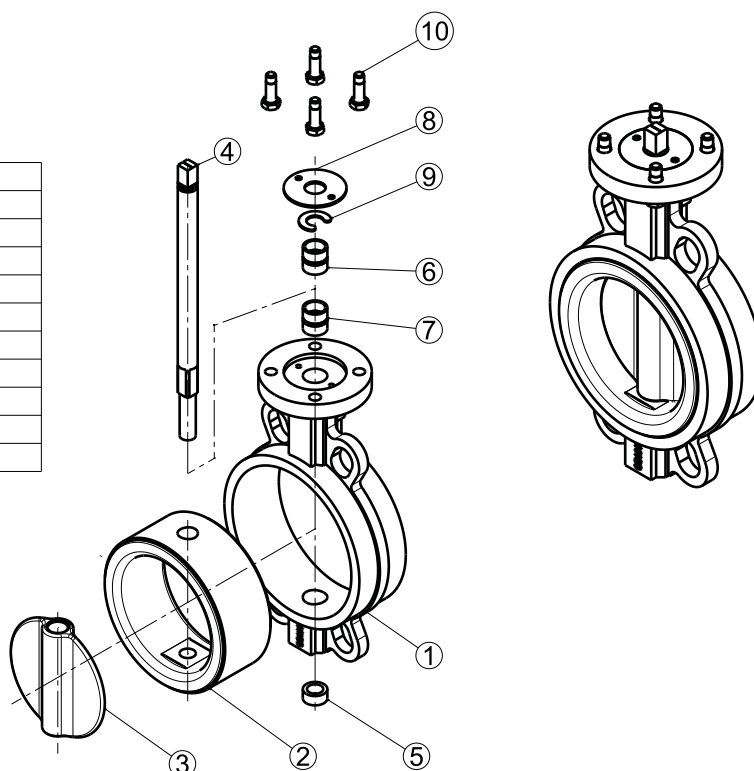
Manual



Automatic



Number	Part Number	Material
1	Body	FCD450
2	Seat	EPDM
3	Disc	SCS13
4	Shaft	SUS410
5	Body Bush Bottom	FRP
6	Body Bush Top	FRP
7	O-ring	EPDM
8	Top Cover	SUS304
9	C-Snap	SUS304
10	Bolt&Nut	SUS304

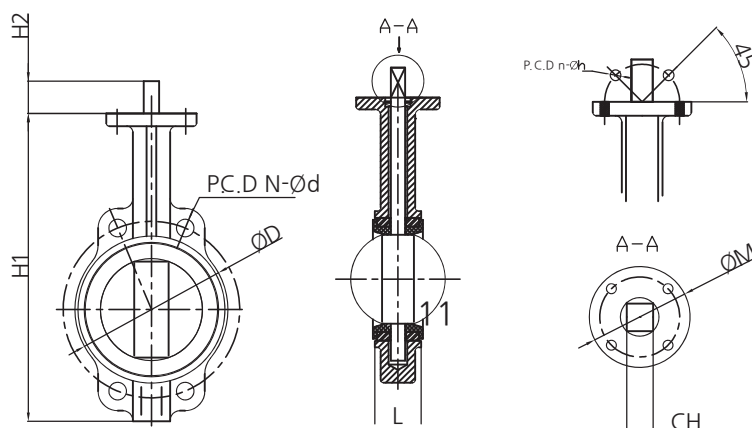


Bare Type

Product Features



- Can be used in both blocking and proportional control
- Guaranteed compatibility with various actuators (Top Flange ISO 5211)
- There are no restrictions on the direction of the actuator by using a square axis
- Excellent durability due to the interface thickness
- Excellent corrosion resistance compared to low-cost bolts by using stainless steel bolts



Product Specification

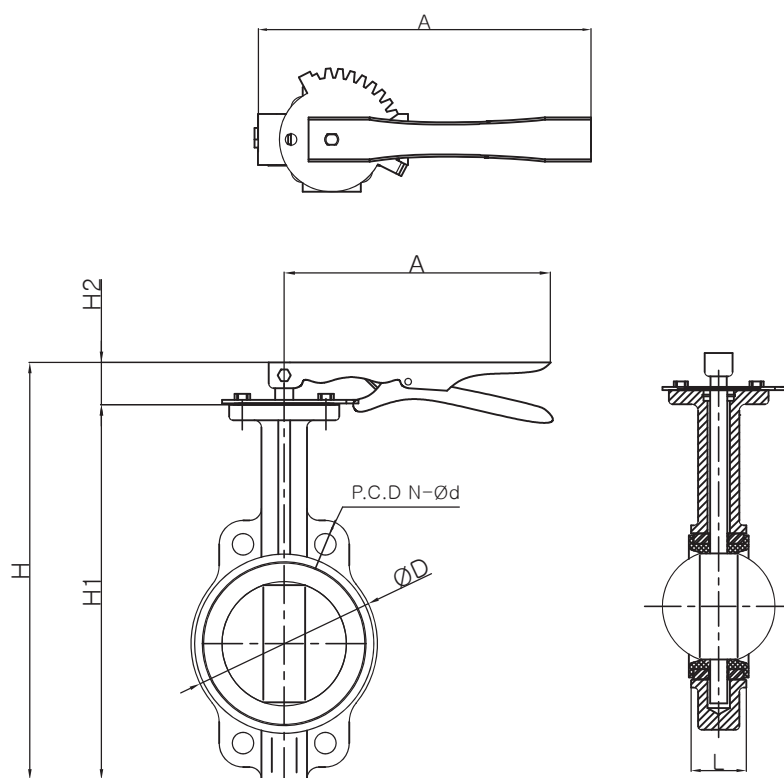
Size		Dimension(mm)					Actuator assemble part						
mm	inch	L	ØD	PCD (N-Ød)	H1	ISO	CH	Adapter	H2	PCD (n-Øh)	ØM		
50	2	42	89	120	4-Ø19	199	F07	9	11	13	70	4-Ø10	90
65	2.5	44	104	140	4-Ø19	220	F07	9	11	13	70	4-Ø10	90
80	3	45	119	150	8-Ø19	237	F07	9	14	13	70	4-Ø10	90
100	4	51.5	150	175	8-Ø19	278	F07	11	14	17	70	4-Ø10	90
125	5	54	176	210	8-Ø23	300	F07	14	17	17	70	4-Ø10	90
150	6	54	206	240	8-Ø23	334	F07	14	17	17	70	4-Ø10	90
200	8	59	262	290	12-Ø23	404	F10	17	22	20	102	4-Ø12	125
250	10	66	319	355	12-Ø25	473	F10	22	X	24	102	4-Ø12	125
300	12	76	372	400	16-Ø25	538	F10	22	27	24	102	4-Ø12	125
350	14	76	400	445	16-Ø25	630	F10	22	27	24	102	4-Ø12	125
400	16	86.5	470	510	16-Ø27	706	F14	27	36	50	140	4-Ø18	175
450	18	105	512	565	20-Ø27	755	F14	27	36	50	140	4-Ø18	175
500	20	127	563	620	20-Ø27	835	F14	27	36	50	140	4-Ø18	175
550	22	154	660	680	20-Ø33	985	F16	36	X	70	165	4-Ø22	210
600	24	154	680	730	24-Ø33	1000	F16	36	46	70	165	4-Ø22	210

* Body ranged 50 ~ 200mm is used as common for both 10K/20K
 * Can be manufactured up to 1,000mm

Lever Type

Product Features

- Open/close manually and assembled with gear box
- Brackets are mounted
- Cast iron handle, SUS handle is available
- Locking device and limit switch can be attached



Product Specification

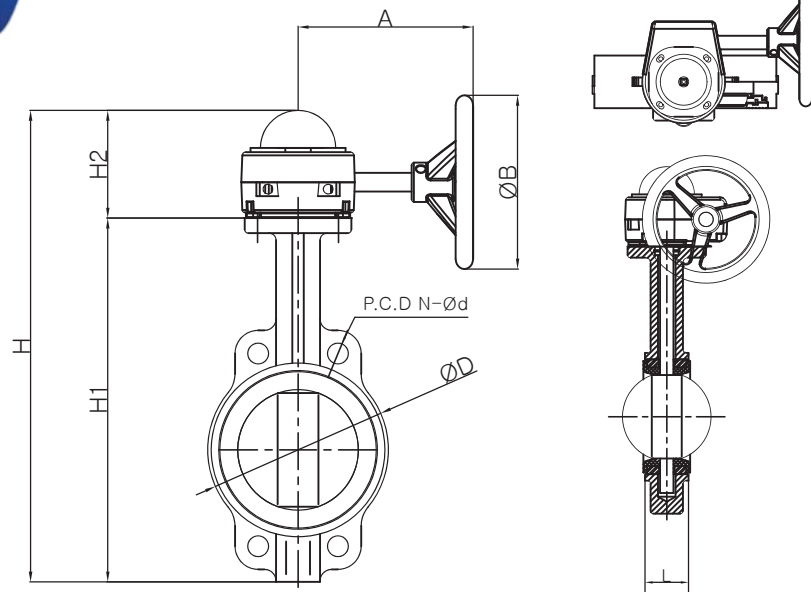
Size		Dimension(mm)							
mm	inch	L	ØD	PCD (N-Ød)	A	H1	H2	H	
50	2	42	89	120	4-Ø19	235	196	30	226
65	2.5	44	104	140	4-Ø19	235	215	30	245
80	3	45	119	150	8-Ø19	235	228	30	258
100	4	51.5	150	175	8-Ø19	260	267	30	297
125	5	54	176	210	8-Ø23	260	297	30	327
150	6	54	206	240	8-Ø23	260	329	30	359

* Body ranged 50 ~ 150mm is used as common for both 10K/20K

Gear Type

Product Features

- Open/close manually and assembled with gear box
- Equipped with a visual gearbox which allows to easily be seen from certain distance
- Easy to install in pipes using JIS 10K, 20K common body
- Locking device and chain gears can be attached



Product Specification

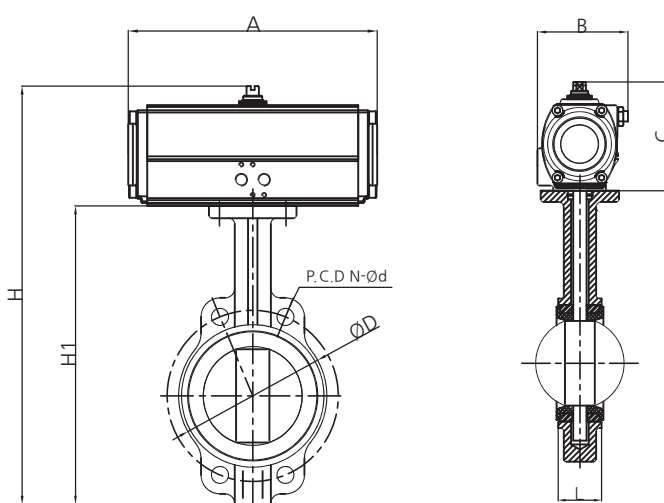
Size		Dimension(mm)								
mm	inch	L	ØD	PCD (N-Ød)	A	ØB	H1	H2	H	
50	2	42	89	120	4-Ø19	151	150	199	94	293
65	2.5	45	104	140	4-Ø19	151	150	220	94	314
80	3	45	119	150	8-Ø19	151	150	237	94	331
100	4	51.5	150	175	8-Ø19	151	150	278	94	372
125	5	54.5	176	210	8-Ø23	151	150	300	94	394
150	6	54.5	206	240	8-Ø23	151	150	334	94	428
200	8	60	262	290	12-Ø23	232	250	404	115	519
250	10	67	319	355	12-Ø25	232	250	473	115	588
300	12	76	372	400	16-Ø25	357	300	538	123	661
350	14	76	400	445	16-Ø25	357	300	630	123	753
400	16	86.5	470	510	16-Ø27	357	351.5	706	123	829
450	18	105	512	565	20-Ø27	357	351.5	755	123	878
500	20	127	563	620	20-Ø27	357	351.5	835	123	958
550	22	154	660	680	20-Ø33	357	351.5	985	123	1108
600	24	154	680	730	24-Ø33	357	351.5	1000	123	1123

* Body ranged 50 ~ 200mm is used as common for both 10K/20K
 * Can be manufactured up to 1,000mm

Pneumatic Type

Product Features

- Open/close automatically and attached with pneumatic actuator
- According to order specifications, various actuators and accessories can be attached
 - * Product is delivered after clearing operation test
- Compact design allows installation even in narrow space
- There is a wide range of actuator choices due to low torque value



Product Specification

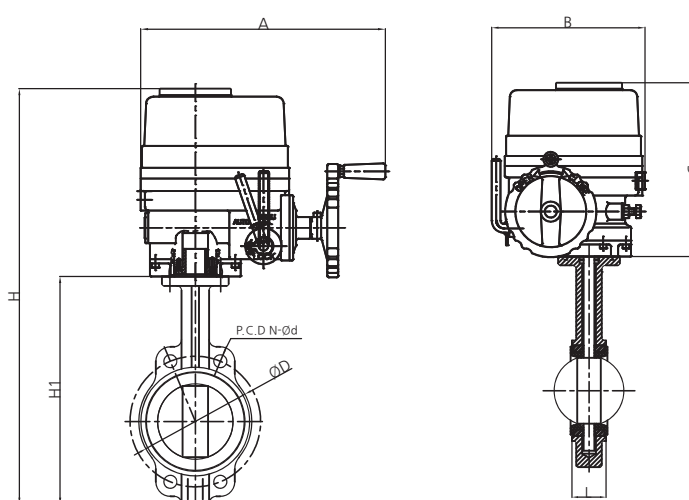
Size		Dimension(mm)								
mm	inch	L	ØD	PCD (N-Ød)	A	B	C	H1	H	
50	2	42	99	120	4-Ø19	162	79	90	199	289
65	2.5	45	119	140	4-Ø19	162	79	90	220	310
80	3	45	129	150	8-Ø19	202	93	106	237	343
100	4	51.5	152	175	8-Ø19	202	93	106	278	384
125	5	54.5	184	210	8-Ø23	262	106	126	300	426
150	6	54.5	214	240	8-Ø23	262	106	126	334	460
200	8	60	260	290	12-Ø23	311	139	148	404	552
250	10	67	321	355	12-Ø25	390	157	174	473	647
300	12	76	362	400	16-Ø25	431	178	192	538	730
350	14	76	410	445	16-Ø25	431	178	192	630	822
400	16	86.5	480	510	16-Ø27	506	207	216	706	922
450	18	105	530	565	20-Ø27	581	233	244	755	999
500	20	127	590	620	20-Ø27	605	258	284	835	1119
550	22	154	640	680	20-Ø33	605	258	284	985	1269
600	24	154	690	730	24-Ø33	755	328	335	1000	1335

* Body ranged 50 ~ 200mm is used as common for both 10K/20K
 * Can be manufactured up to 1,000mm

Electric Type

Product Features

- Open/close automatically and attached with electric actuator
- According to order specifications, various actuators and accessories can be attached
 - * Product is delivered after clearing operation test
- Compact design allows installation even in narrow space
- There is a wide range of actuator choices due to low torque value



Product Specification

Size		Dimension(mm)								
mm	inch	L	ØD	PCD (N-Ød)		A	B	C	H1	H
50	2	42	99	120	4-Ø19	258	172	245	199	444
65	2.5	45	119	140	4-Ø19	258	172	245	220	465
80	3	45	129	150	8-Ø19	258	172	245	237	482
100	4	51.5	152	175	8-Ø19	258	172	245	278	523
125	5	54.5	184	210	8-Ø23	338	229	284	300	584
150	6	54.5	214	240	8-Ø23	338	229	284	334	618
200	8	60	260	290	12-Ø23	357	244	313	404	717
250	10	67	321	355	12-Ø25	357	244	313	473	786
300	12	76	362	400	16-Ø25	380	284	338	538	876
350	14	76	410	445	16-Ø25	380	284	338	630	968
400	16	86.5	480	510	16-Ø27	440	375	385	706	1091
450	18	105	530	565	20-Ø27	440	375	385	755	1140
500	20	127	590	620	20-Ø27	440	375	385	835	1220
550	22	154	640	680	20-Ø33	516	417	668	985	1653
600	24	154	690	730	24-Ø33	516	417	668	1000	1668

* Body ranged 50 ~ 200mm is used as common for both 10K/20K
 * Can be manufactured up to 1,000mm

Product Introduction

Butterfly Valve (Lined)

Product Features and Advantages

- Can be used in chemical fluids treated pipes (Seat/Disc : Teflon)
- Pin-less structure overcomes disc coating and forming limitations.
- Excellent corrosion resistance compared to low-cost bolts by using stainless steel bolts.
- There is a mark on the top of the shaft which enables axial guidance after piping connection.
(Optional) With limit switch box installed, it is easy to check valve status from the receiver
- Prevent water leakage and ensure actuator performance by installing shaft packing press and bracket.
- Multiple O-rings used to prevent shaft leakage.
- There are no restrictions on the direction of the actuator by using a square axis.
- Can be manufactured from various body materials (cast iron, cast steel, stainless steel, etc.)
- It can be installed in a small space, has no failure rate due to its simple structure, and is easy to repair.

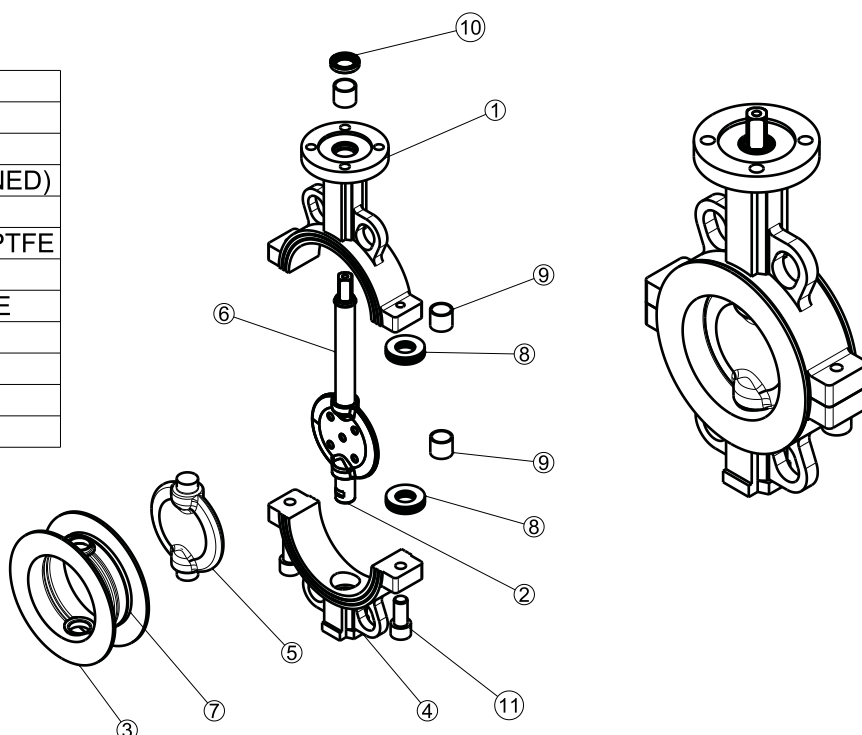
Manual



Automatic



No	Part Number	Material
1	Body1	FCD450
2	Down Shaft	SS431
3	Seat	PTFE(LINED)
4	Body2	FCD450
5	Disc	SCS13+PTFE
6	Up shaft	SS431
7	Seat Backup	SILICONE
8	Pressing Sleeve	SCS13
9	Bushing	PTFE
10	Oring	PTFE
11	Bolt	SCS13

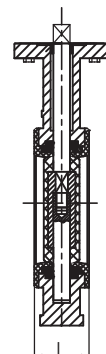
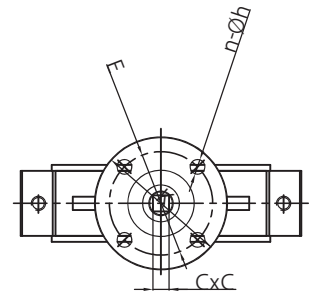
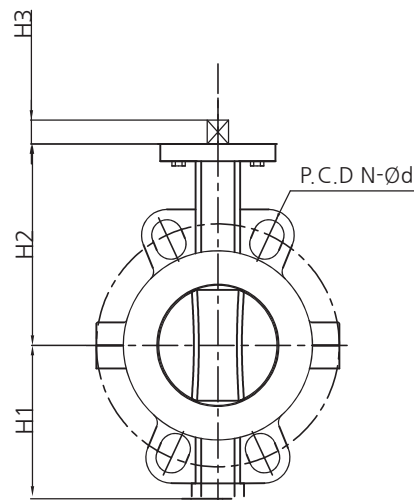


Bare Type



Product Features

- Pinless structure
- No limitations in disc coating and forming
- Suitable to use in water or disposal fluid lines
- Suitable to control chemical fluids such as strong acid and strong alkaline type
- Excellent sealing due to the backup pad on the back of the seat
- Blocks the leak in stems from its V packing structure and teflon texture



Product Specification

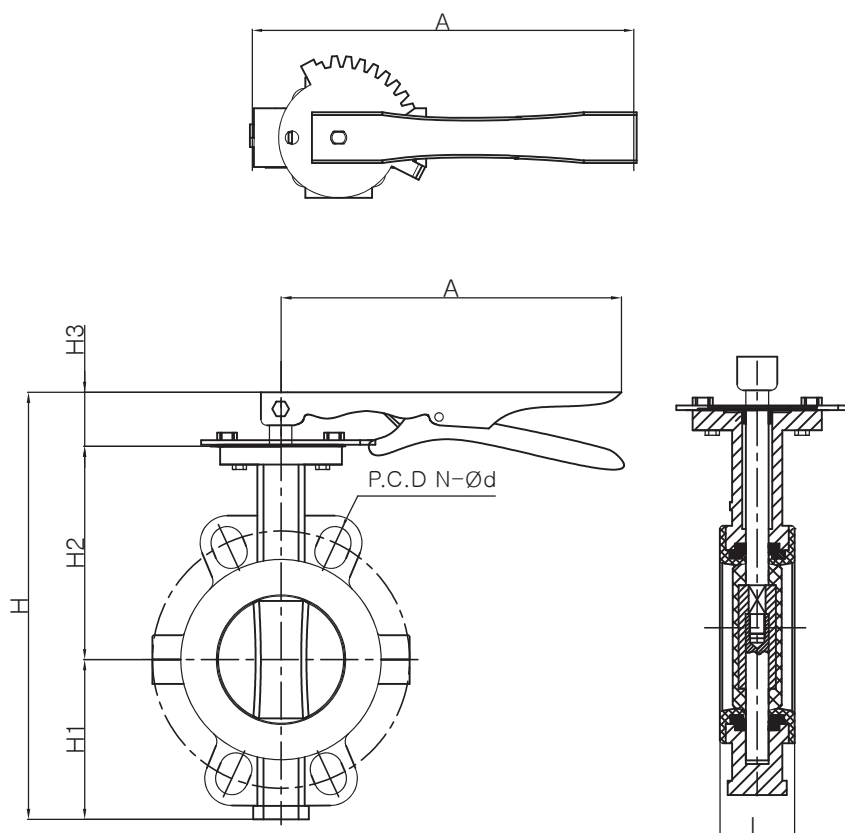
Size		Dimension(mm)					Actuator assemble part						
mm	inch	L	PCD (N-Ød)		H1	H2	ISO	CH	Adapter	H3	PCD	ØM	n-Ø
50	2	43	120	4-Ø19	75	140	F07	9	11	14	70	90	4-10
65	2.5	46	140	4-Ø19	82	150	F07	9	11	14	70	90	4-10
80	3	46	150	8-Ø19	90	160	F07	9	14	14	70	90	4-10
100	4	52	175	8-Ø19	118	178	F07	11	14	17	70	90	4-10
125	5	56	210	8-Ø23	131	190	F07	14	17	17	70	90	4-10
150	6	56	240	8-Ø23	145	200	F07	14	17	17	70	90	4-10
200	8	60	290	12-Ø23	173	240	F10	17	22	22	102	125	4-12
250	10	68	355	12-Ø25	208	273	F10	22	X	22	102	125	4-12
300	12	78	400	16-Ø25	244	310	F10	22	27	22	102	125	4-12

* Body ranged 50 ~ 200mm is used as common for both 10K/20K
* Can be manufactured up to 1,000mm

Lever Type

Product Features

- Open/close manually and assembled with gear box
- Cast iron handle, SUS handle is available
- Locking device and limit switch can be attached



Product Specification

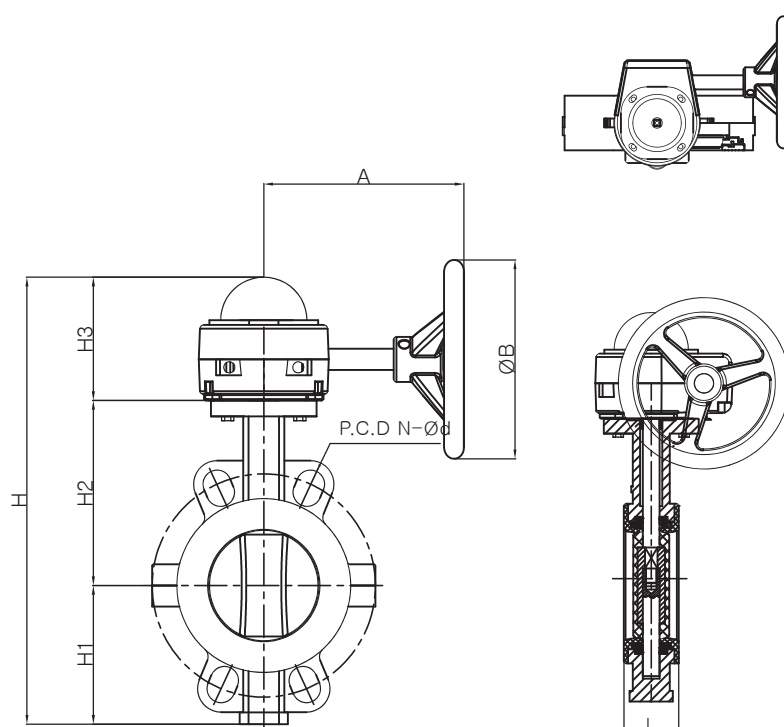
Size		Dimension(mm)							
mm	inch	L	PCD (N-Ød)	A	H1	H2	H3	H	
50	2	43	120	4-Ø19	235	75	140	30	245
65	2.5	46	140	4-Ø19	235	82	150	30	262
80	3	46	150	8-Ø19	235	90	160	30	280
100	4	52	175	8-Ø19	260	118	178	30	326
125	5	56	210	8-Ø23	260	131	190	30	351
150	6	56	240	8-Ø23	260	145	200	30	375

* Body ranged 50 ~ 150mm is used as common for both 10K/20K

Gear Type

Product Features

- Open/close manually and assembled with gear box
- Equipped with a visual gearbox which allows to easily be seen from certain distance
- Easy to install in pipes using JIS 10K, 20K common body
- Locking device and chain gears can be attached



Product Specification

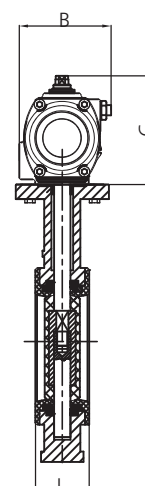
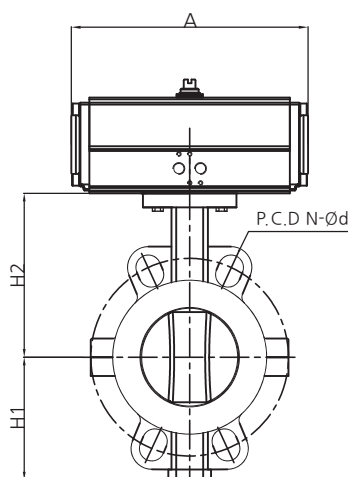
Size		Dimension(mm)								
mm	inch	L	PCD (N-Ød)	A	ØB	H1	H2	H3	H	
50	2	43	120	4-Ø19	151	150	75	140	94	309
65	2.5	46	140	4-Ø19	151	150	82	150	94	326
80	3	46	150	8-Ø19	151	150	90	160	94	344
100	4	52	175	8-Ø19	151	150	118	178	94	390
125	5	56	210	8-Ø23	151	150	131	190	94	415
150	6	56	240	8-Ø23	151	150	145	200	94	439
200	8	60	290	12-Ø23	232	250	173	240	115	528
250	10	68	355	12-Ø25	232	250	208	273	115	596
300	12	78	400	16-Ø25	357	300	244	310	123	677

* Body ranged 50 ~ 200mm is used as common for both 10K/20K
 * Can be manufactured up to 1,000mm

Pneumatic Type

Product Features

- Open/close automatically and attached with pneumatic actuator
- According to order specifications, various actuators and accessories can be attached
 - * Product is delivered after clearing operation test
- Compact design allows installation even in narrow space
- ISO 5211 standard applied for assembling the actuator conveniently
- Low torque: Under cutted disc allows reducing the torque value, providing a wide range of actuator choice



Product Specification

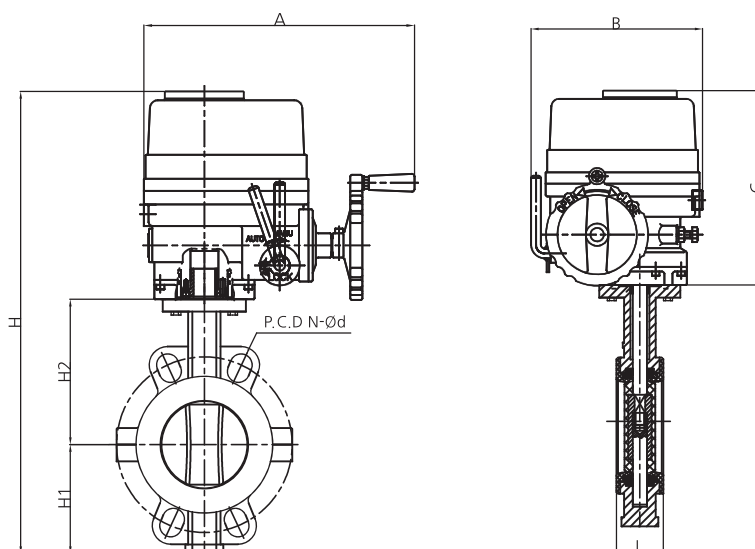
Size		Dimension(mm)								
mm	inch	L	PCD (N-Ød)		A	B	C	H1	H2	H
50	2	43	120	4-Ø19	162	79	90	75	140	305
65	2.5	46	140	4-Ø19	162	79	90	82	150	322
80	3	46	150	8-Ø19	202	93	106	90	160	356
100	4	52	175	8-Ø19	202	93	106	118	178	402
125	5	56	210	8-Ø23	262	106	126	131	190	447
150	6	56	240	8-Ø23	262	106	126	145	200	471
200	8	60	290	12-Ø23	311	139	148	173	240	561
250	10	68	355	12-Ø25	390	157	174	208	273	655
300	12	78	400	16-Ø25	431	178	192	244	310	746

* Body ranged 50 ~ 200mm is used as common for both 10K/20K
* Can be manufactured up to 1,000mm

Electric Type

Product Features

- Open/close automatically and attached with electric actuator
- According to order specifications, various actuators and accessories can be attached
 - * Product is delivered after clearing operation test
- Compact design allows installation even in narrow space
- ISO 5211 standard applied for assembling the actuator conveniently
- Low torque: Under cutted disc allows reducing the torque value, providing a wide range of actuator choice



Product Specification

Size		Dimension(mm)									
mm	inch	L	ØD	PCD (N-Ød)	A	B	C	H1	H2	H	
50	2	43	99	120	4-Ø19	258	172	245	75	140	460
65	2.5	46	119	140	4-Ø19	258	172	245	82	150	477
80	3	46	129	150	8-Ø19	258	172	245	90	160	495
100	4	52	152	175	8-Ø19	258	172	245	118	178	541
125	5	56	184	210	8-Ø23	338	229	284	131	190	605
150	6	56	214	240	8-Ø23	338	229	284	145	200	629
200	8	60	260	290	12-Ø23	357	244	313	173	240	726
250	10	68	321	355	12-Ø25	357	244	313	208	273	794
300	12	78	362	400	16-Ø25	380	284	338	244	310	892

* Body ranged 50 ~ 200mm is used as common for both 10K/20K
* Can be manufactured up to 1,000mm

Major Customers

Company Name	Application	Company Name	Application	Company Name	Application	Company Name	Application
LS Cable & System(Gumi)	STEAM	Doosan Heavy Industry(Changwon)	STEAM	Hyundai Electronics(Icheon)	STEAM	POSCO ESM	POWER
Samsung Electronics(Suwon)	STEAM	Gyeongsang Uni.(Jinju)	STEAM	Hyundai WIA(Changwon)	STEAM	LG Chemical	POWER
Samsung SDI(Suwon)	STEAM	Yakult Korea(Yangsan)	STEAM	Haitai Beverage(Sacheon)	STEAM	Donil Paper(Uiryeong)	High temperature water
Samsung SDI(Busan)	STEAM	LG Fashion(Yangsan)	STEAM	Hansol Paper(Jeonju)	STEAM	Hankook Paper(Onsan)	High temperature water
Samsung Semi-conduct (Giheung)	STEAM	LG Chemical(Cheongju)	STEAM	Yakult Korea(Yangsan)	STEAM	Hansol Paper(Janghwa)	High temperature water
SK Hynix(Gumi)	STEAM	Busan Milk	STEAM	Lotte Dept. Store(Busan)	STEAM	Jinju Ham	High temperature water
Siltron(Gumi)	STEAM	Inje University	STEAM	POSCO Chemical	POWER	Nexen Tire	High temperature water
CJ Jeiljedang(Busan)	STEAM	Hyundai Heavy Industry(Ulsan)	STEAM	L&F	POWER	Coca Cola Beverage	High temperature water
Halla Heavy Industry	STEAM	Dong-A Tire(Bukjeong)	STEAM	Ecopro GEM	POWER	Doosan Infracore(Changwon)	High temperature water
LG Electronics(Changwon/Gimhae)	STEAM	Samsung Medical Center(Seoul/Masan)	STEAM	Ecopro CAM5	POWER	LG Chemical(Cheongju)	High temperature water
Pohang Gwangyang Iron&Steel	STEAM	Samsung Electronics(Giheung)	I.G DRYER	Ecopro BM	POWER	CJ Jeiljedang(Busan)	High temperature water
Doowon Heavy Industry(Sacheon)	STEAM	Hyundai Motors(Jeonju)	WATER	Samsung SDI	POWER	Doosan Electronics(Iksan)	STEAM
Hyundai Iron&Steel	AIR DRYER	Hyundai Motors(India)	WATER	Lotte Chemical(Yongyeon)	I.G DRYER	POSCO(Cathode factory)	STEAM
Samsung Electronics(Gumi)	AIR DRYER	KIA Motors(India)	WATER	Lotte Chemical(Ulsan)	I.G DRYER	Hanmi Pharmaceutical(Pyungtaek)	STEAM
Gyeongdong Boiler	AIR DRYER	Doosan Heavy Industry(Changwon)	STEAM	SK Hynix(Cheongju)	STEAM	Samsung Biologics	STEAM



Products are sold to 360 of end user customers with the help of our 60 specialized distributors located throughout the country

Major Function and Instruction of Butterfly Valve

The valve can operate by choosing the type Manual or Automatic. Fluids are controlled by rotating the disc that is inside the valve.

Manual Operation (LEVER, GEAR)

LEVER has an easy- to- operate grip handle and is equipped with a direction pointer to indicate the valve disc position using a spring-loaded locking device.

The valve closes when GEAR type handwheel is turned clockwise. When turned counterclockwise, it opens.

Open / Close Indicator is adjusted after the pressure test, so there is no need for further adjustment.

Opening and closing must be done only by hand and excessive manipulation using other tools should be avoided.

It must be used in a fully open or locked state and care must be taken not to use it for the purpose of controlling the flow rate within the pipe.

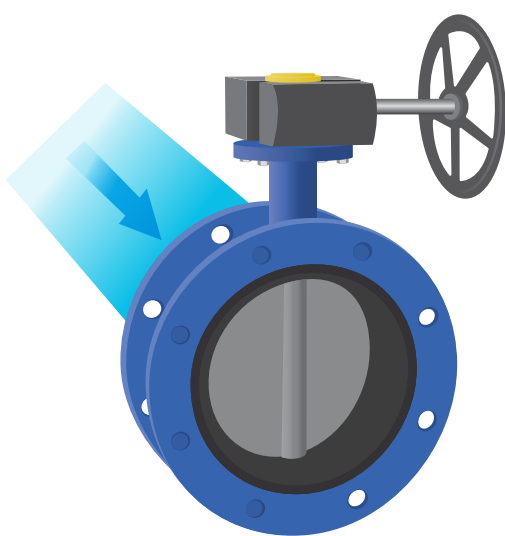
Automatic Operation (PNEUMATIC ACTUATOR, ELECTRIC MOTOR)

Our valves using PNEUMATIC ACTUATOR operates at an operating pressure of 4kg/cm² or higher.

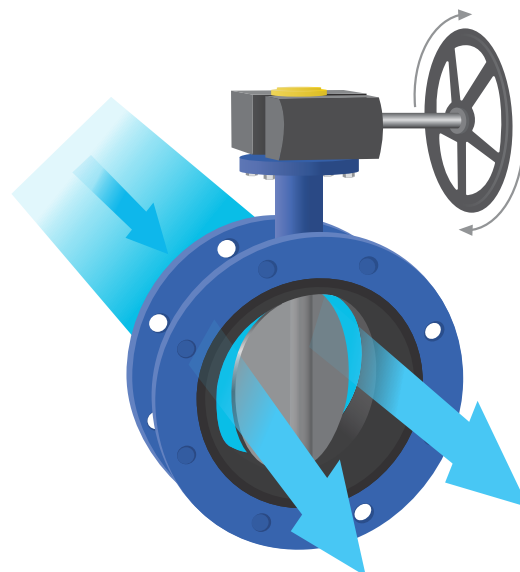
The PNEUMATIC ACTUATOR can be installed vertically or horizontally on the pipe line.

The ELECTRIC MOTOR can be used as ON/OFF type or proportional control type.

If the limit torque value is not set properly, caution is required as the disc may become deeply embedded and the shaft may buckle.



Valve is closed



Valve is open

Installation and Precaution

Before starting installation, the user must take into account of any damage that may occur during transportation. Visually inspect the adhesion surfaces of the disc and seat and the overall assembly condition.

- 1) The preferred installation direction of the valve is to install it in such a way that the shaft (STEM) rests on the high pressure side when closed. At this time, it provides the most optimal closed room effect.
- 2) The gasket surface of the pipe to be installed must remain flat. Remove any remaining residue, rust, dust, etc. before installing to the pipe.
- 3) At the beginning of valve operation, the packing pressure must be properly adjusted by lightly tightening the gland bolt/nut.
- 4) If the valve is not opened and closed frequently, grease should be regularly applied to the contact point between the shaft (STEM) exposed on the top flange of the valve and the gland packing section.
- 5) Products should not be subject to shock by bumping or dropping them.
- 6) Do not loosen the pipe bolts, gland nuts or the bolts on the product when the pipe is under internal pressure.
- 7) After installation, the valve must be opened and closed once or twice before applying pressure.
- 8) Before operation, increase the internal pressure of the pipe and use soapy water, etc. to check for leaks on the welded parts of the flanges.
- 9) Make sure the internal pressure does not exceed the rated pressure of the valve.
- 10) After test operation at high pressure and temperature, the fastening force of pipe bolts and nuts may weaken. In this case, there is a risk of leakage so additionally readjust the tightening torque of the bolt and nut.

Maintenance and Inspection

The following actions are recommended to ensure the safety and lifespan of the valve.

- 1) Carry out inspection once a year and check for corruptions of the disc and wears of the seat.
- 2) The gearbox and lever device are designed to be maintenance-free.
- 3) Maintenance work must be performed at room temperature.
- 4) Check if there are strange noises occurring during operation.
- 5) The tightness of bolts and nuts must be checked regularly.
- 6) Insulating the valve body with the pipes can avoid sudden cooling and heating, which can further extend the life of the valve.
- 7) In case of valve leakage, the valve must be fully opened and then closed again. Repeat these actions several times.
- 8) If leakage does not stop even after opening and closing the valve several times, disassemble the valve and check for foreign matter. If any foreign matter occurs, remove it and clean the seat surface and then reassemble.
- 9) If the seat is damaged, it must be replaced. Since the seat is fixed by forcefully pressing the cover, it can be replaced when it is delivered to our headquarters.
- 10) If leakage occurs in the gland packing part, leakage in the packing part can be resolved by tightening the gland bolt/nut.
- 11) If leakage occurs even after tightening the gland bolt/nut, replace or supplement the gland packing.
- 12) If there is a water leak between the valve body and the pipe flanges:
 - The pipe bolts may be loose or not tightened evenly.
 - There may be scratches, waste or other foreign substances on the surface of the flanges and gaskets.
 - The valve may be misaligned.

Troubleshooting

Below information describes the possible problem and cause that may occur during or before using our product. Carefully read the instruction for proper troubleshooting.

Problem	Cause	Measurment
Valve does not open and close	Excessive pressure is applied	Turn off the line and inspect
	Foreign substance is in the pipeline	Remove foreign substance
	Gland packing may be too tightened	Adjust the torque value
	Gear box is damaged	Replace the gear box
	Handle is damaged	Replace the handle
	Air or electricity is not conveyed properly to the actuator	Use the pressure gauge to test air/voltage supply
	Using an incompatible actuator	Use a compatible actuator
External problem is found	External damage from falling	Replace component or product
	Defected from injection or casting	Turn off the line and inspect
	Defected from careless handling	Turn off the line and inspect
Stem is leaking	Gland packing is loose	Check the packing nut's tightening
	Packing is damaged	Replace or supply packing
	Stem is damaged	Replace the product
Valve is leaking	Incorrect fluid selection	Replace the seat corresponding to the fluid
	Seat is damaged due to foreign substance inside the pipe	Replace the seat
	Disc is overclosed	Adjust the stopper and center
	Leak due to unbalanced tightening of bolts on pipe	Release the pipe bolts and tighten it
	Used more than the expected period	Replace the seat or product
	Disc is damaged	Grind or replace the disc

Warranty Information

DGV CO., LTD. product warranty is decribed as follows:

Free of charge

1. When a product has been delivered incorrectly according to customer's order
2. When the product report issued by DGV CO., LTD. does not match the quality
3. When there are defects in parts or during assembling the product
4. When there are quality issues found within the warranty period (2 years)
5. Case of justifiable reasons in accordance with Consumer Damage Law
6. When DGV CO., LTD. can acknowledge responsibility of the issue claimed

Applied charges

- 1) When the product is used in excess of its specification
- 2) In case of user's neglectance, arbitrary modification or disassembly
- 3) In case of natural disasters such as fire or flood damage
- 4) When the warranty period(2 years) has expired



DGV CO., LTD.
Butterfly Valve Manufacturer

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