FLOWX®

Valve
BUTTERFLY

ABOUT US

FLOWX - WORLD WIDE VALVE SUPPLIER AROUND YOU

FLOWX Valve is originated from Rome, Italy. Over the years, we have been focusing on valve development, production, sales and service.
Our product quality and good service have been widely praised!

Forge Ahead
The Pursuit Of Excellence

B.S.ITALY

We are adhering to the modular design and service concept of FLOWX in Italy. We have formed more than ten series of butterfly valves, ball valves, pneumatic actuators, electric actuators and accessories in the Greater China region.
It provides the fluid control industry with the best choice in terms of its compatibility, economy and high performance.

FLOWX Valve (Shanghai) Co., Ltd. is a wholly owned subsidiary of the Chinese mainland. In recent years, the Flowx Group has increased its investment globally, effectively expanding its production and logistics capabilities to meet customer needs and the rapid development of the valve market.
The company's factory is located in Shanghai and covers an area of 33,000 square meters. It is currently the world's largest production base of Flowx company, with sales offices in Beijing, Shandong, Guangdong, Henan, Shijiazhuang, Tianjin and Chengdu.

We believe that 7 factors to decide whether a customer will order or not. As followings:

- Manufacturer Company Cevelopment Scale
- Product Quality Control And Testing
- Product Professionalism
- Due Date Of Delivery
- Customer Service
- Price Advantage
- Customized Cooperation

TABLE OF CONTENT

Butterfly Valve FP10

1 Body Type

0 ......Soft Seal Butterfly Valve
1 ......Hard Seal Butterfly Valve
2 ......High Performance Butterfly Valve
3 ......Plastic Butterfly Valve
4 ......Powder Butterfly Valve
5 ......Sanitary Butterfly Valve
6 ......Ventilation Butterfly Valve

2 Operated Type

D ......Pneumatic Actuator (Double acting)
DS......Pneumatic Actuator (Single acting)
DE ......DA Pneumatic Actuator+Reducing Gear
DES......SR Pneumatic Actuator+Reducing Gear
1 ......Handle Lever
2 ......Worm Gear
3 ......Electric Actuator AC220V
31 ...... Electric Actuator AC380V
32 ...... Electric Actuator DC24V
33 ...... Electric Actuator AC24V

3 Place of Origin of Actuator

S ......FLOWX B.S Shanghai
T ......FLOWX B.S Taiwan
H......FLOWX B.S Korea
I ......FLOWX B.S ITALY
G......FLOWX B.S GERMANY
0 ......Others

4 Function of Actuator

1 ......Normal Open
2 ......Normal Closed
3 ......ON-OFF Type
4 ......4-20mA Feedback Type
5 ......4-20mA Intelligent Regulated Type
6 ......ON-OFF (Explosive proof)
7 ......4-20mA Feedback Type
(Explosive proof)
8 ......4-20mA Intelligent Regulated Type
(Explosive proof)
0 ......Others

5 Connection Type

1 ......Wafer
2 ......Flanged
3 ......Threaded
4 ......Welded
5 ......Clamped
6 ......LUG (LT)
7 ......Weld&Thread Per Each Connect Type
8 ......Double Tee
9 ......Clamp Cover
0 ......Others

6 Seat Material

1 ......EPDM
2 ......NBR
3 ......PTFE
4 ...... VITON
5 ......FPM
6 ......Wear Resisting EPDM
7 ......SS304
8 ......Alloy Steel
9 ......Hard Alloy Steel
0 ......Others

7 Others

A...... Galvanized DI
B...... DI with Nylon
C...... DI with F4
D...... Aluminium Bronze
E SS304
F SS316
G...... UPVC
H...... CPVC
I ...... WCB
0 ...... Others

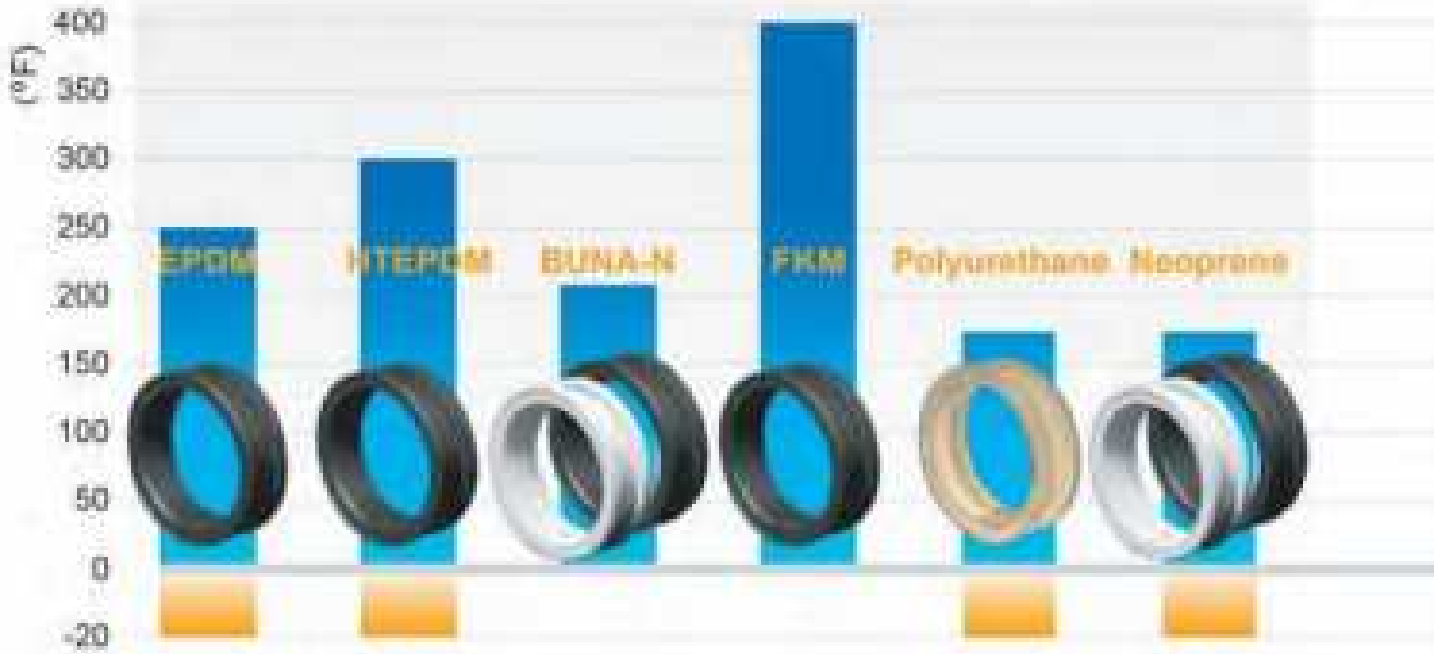
8 Body Material

1 ......DI/CI
2 ......WCB
3 ......SS304
4 ......Aluminium Alloy
5 ......SS316
6 ......UPVC
7 ......PP
8 ......CPVC
0 ......Others

9 Pressure Rating

1 ......PN6
2 ......PN10
3 ......PN16
4 ......PN25
5 ......PN40
6 ......PN64
7 ......PN100
0 ......Others

* The key is a guide only ,it is not intended to imply that al combinations can or will be produced.



PEROXIDE CURED EPDM

-20°F to 250°F (-29°C to 121°C)

Flowx's peroxide cured EPDM (Ethylene Propylene Diene Monomer) seats have a higher resistance to abrasion, lower compression set, and higher temperature capabilities than sulfur cured seats. As a standard seat offering, Flowx's peroxide cured EPDM is the most universal and economical seat material used in our resilient seated butterfly valves. All of Flowx's peroxide cured EPDM seats are food grade and can be certified to NSF-61.

HTEPDM

-20°F to 300°F (-29°C to 150°C)

HTEPDM is a proprietary rubber blend offered by Flowx to increase the thermal resistance properties of standard EPDM and is formulated to provide long term service at elevated temperatures for hot water. HTEPDM Food Grade seats are suitable for sanitary applications as well as standard industrial uses.

BUNA-N (Black or White)

-20°F to 300°F (-29°C to 150°C)

BUNA-N is the commonly used name for Nitrile synthetic rubber. Nitrile is a copolymer of acrylonitrile and butadiene. BUNA-N is sometimes referred to as NBR, Nitrile, or Hycar. BUNA-N is a general purpose seat material particularly suitable for hydrocarbon service. BUNA-N is a standard Flowx seat material and food grade is available for sanitary applications.

FKM

0°F to 400°F (-18°C to 204°C)

FKM is the ASTM D1418 designation for Fluorinated Hydrocarbon Elastomers (Fluoroelastomers) such as Viton ® (DuPont). FKM has some outstanding characteristics such as improved acid, oil, and temperature resistance over other seat materials.

POLYURETHANE

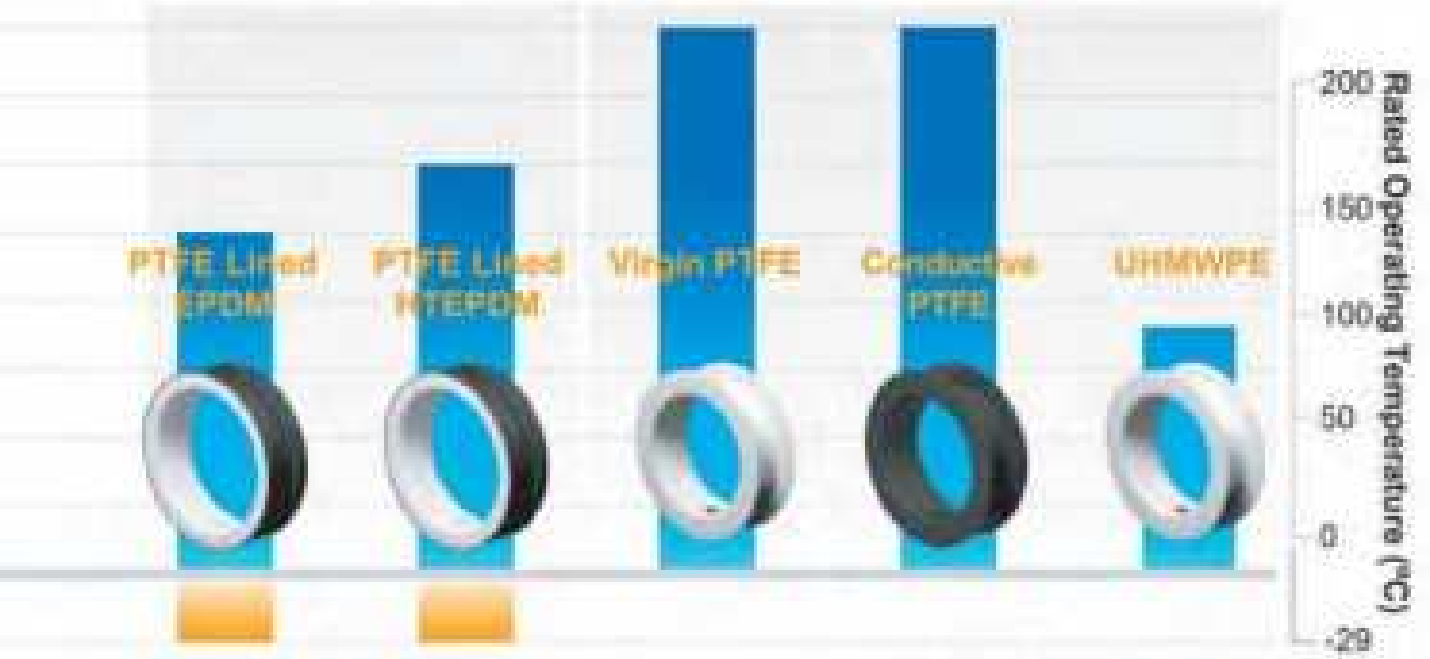
-20°F to 175°F (-29°C to 80°C)

Polyurethane seats are primarily used because of their resistance to abrasive wear. Polyurethane can be used in a reasonably broad range of services and will withstand severe impact, recover its original shape after distortion and resist abrasion better than other elastomers.

NEOPRENE SEAT (Black or White)

0°F to 180°F (-18°C to 82°C)

Neoprene is an all-purpose polymer with desirable characteristics including high resiliency with low compression, resistance to vegetable and animal oil, and flame resistance. This sealing material is excellent for refrigerants, ammonia and Freon, and is principally used in pulp and (non-bleached) paper lines. Neoprene is not recommended for strong oxidizing acids, chlorinated solvents, esters, ketones, aromatic hydrocarbons or hydraulic fluids. White neoprene is generally used in sanitary applications while the black grade provides better abrasion and oil resistance.



PTFE LINED EPDM

-20°F to 250°F (-29°C to 121°C)

PTFE lined EPDM seats consist of a PTFE liner which forms the flange sealing faces and the flow way of the seats which are molded on to EPDM elastomer backings. Only the inert, non-stick PTFE liner surface is exposed to the line media. The EPDM backing acts as a resilient support to the relatively rigid PTFE.
These seats are generally used in corrosive services.

PTFE LINED HTEPDM

-20°F to 300°F (-29°C to 150°C)

PTFE lined HTEPDM seats consist of a PTFE liner which forms the flange sealing faces and the flow way of the seats which are molded on to HTEPDM elastomer backings. HTEPDM is a proprietary rubber blend offered by Flowx to increase the thermal resistance properties of standard EPDM and is formulated to provide long term service at elevated temperatures.

CONDUCTIVE PTFE

0°F to 400°F (-18°C to 204°C)

Flowx's conductive PTFE seats and discs are available for installation in areas of the plant here explosion protection is important. This material was designed to prevent harmful electrostatic discharge. Bray has combined electrostatic discharge protection and the excellent chemical resistance properties of PTFE. The seat and the disc have a minimum conductive PTFE thickness of 1/8" (3 mm) which provides optimum protection against permeation of the line media.

UHMWPE

0°F to 185°F (-18°C to 85°C)

UHMWPE seats and discs feature exceptional chemical resistance and are the ideal choice for highly abrasive chemical applications. The natural ability of the UHMWPE's high molecular weight to repel solids prevents in-line particles from damaging the valve/seat surfaces.

VIRGIN PTFE

0°F to 400°F (-18°C to 204°C)

All Flowx PTFE seats and encapsulated discs are isostatically molded from pure, virgin PTFE material to meet Flowx's stringent material requirements. PTFE's inherent molecular bonding length gives our seats an excellent chemical, high temperature, and tear resistance. Flowx's sintered PTFE offers low permeability properties to provide optimum protection against aggressive line medias.

Seat material availability depends on valve size and series. Please consult your local Flowx representative for your specific application as the pressure and temperature of service also affect seat life and performance.

ISOLATION FROM LINE MEDIA

Flowx's seat design and internal disc to stem connection isolates the line media from the body and stem.

INTERNAL DISC TO STEM CONNECTION

Sizes 2" – 20" (50mm–500mm)
Flowx offers square and double"D" precision machined flats on the stem and in the disc. The Series 30/31 internal, non-wetted connections eliminate exposed external disc to stem connections. The disc and the stem connection minimizes hysteresis and produces maximum strength engagements. All stem designs incorporate a blowout proof feature.

SEAT DESIGN

The seat is designed to seal with slip-on or weld-neck flanges and the molded o-ring eliminates the need for flange gaskets. The tongue and groove locks the seat in place and makes the valve dead end capable.

POLYESTER COATING

The Flowx standard polyester body coating is a hard, gloss red finish. The polyester coating provides excellent corrosion and wear resistance.

Chemical Resistant

Resistant to dilute acids and alkalies, petroleum solvents,alcohols, greases and oils.

Weatherability

Resistant to humidity, water and ultraviolet radiation.

Abrasion and Impact Resistant

SEACORR ® COATING

This proprietary coating for actuators provides superior product protection in corrosive conditions, tested to ASTM B-117.

Other customer specified coating materials are available. Please consult your local Flowx representative for your specific application.

All Flowx valves are pressure tested to 110% of rated pressure to assure bubble tight shutoff.

Features

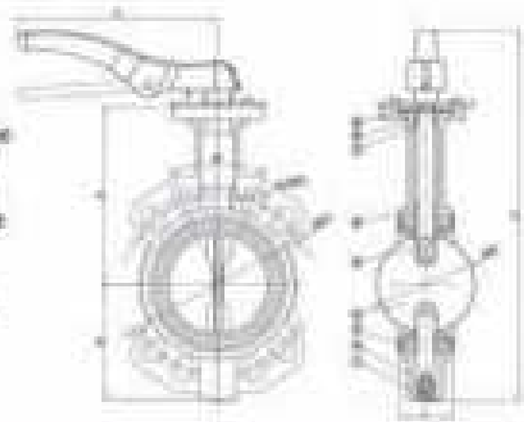
- Designed to MASS-SP67,API609 standards
- Flanged ends designed To PN16,PN10,DIN16,JIS10K, 16K,ANSI B16.1/16.5,BS4504,DIN2015.
- Working pressure:225PSI TO 8" 150PSI To12"
- Shell test :350PSI,Seal Test:250PSI
- Direct Mount ISO5211 for low profile,Cost-efficient operation
- Pneumatic actuator,electric actuator, worm gear,handle lever as operators

Main Specification

Nominal Size	Operated Type	Work Pressure	Work Temperature	Seal Material	Disc Material	Body Material	Medium	Application	Connection Standard
DN25	Pneumatic Actuator	PN6	-15-85℃	EPDM	SS304/SS316	Ductile Iron	Water	Water Treatment	PN10/PN16
↓	Electric Actuator	PN10	-25-150℃	PTFE	Aluminum Bronze	SS304/SS316	Oil	Manufacturing Engineer	ANSI150
↓	Manual Hand Lever	PN16	-15-85℃	NBR	Nylon	WCB	Gas	Pharmacy	DIN16
1200	Worm Gear		-25-200℃	VITON	Ductile Iron	Aluminum Alloy	Powder	Auto Industry	JIS10K/16K
					2205	2205	Fluid		
					2507	2507			
					1.4529	1.4529			

Manual Handle Lever Operated

- cavity filled TFE® seats to reduce the threat of media entrapment
- Block body and bolted end piece design for easy maintenance
- Polished clamp end to meet BS 4835.3



Dimensions

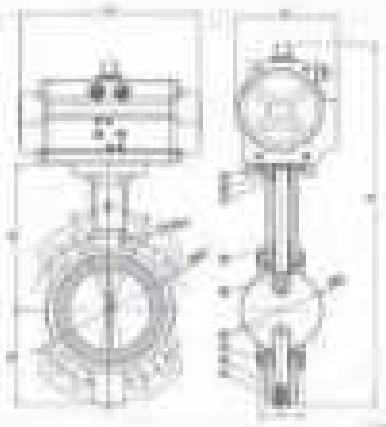
unit: mm

Size		CLASS150		JIS 10K		PN10		PN16		A	B	C	ΦD	H	L	WT (kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1							
32	1¼"	88.9	4-Φ15.9	100	4-Φ19	100	4-Φ19	100	4-Φ19	110	64	213	34.6	242.35	33	1.2
40	1½"	98.6	4-Φ15.9	105	4-Φ19	110	4-Φ19	110	4-Φ19	120	70	213	43	258.35	33	1.8
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	140	80	213	52.9	288.35	42	3.1
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	150	89	213	64.5	307.35	44.7	3.55
80	3"	152.4	8-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	158	95	213	78.8	321.35	46	3.95
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	176	114	277	104	363.64	52	5.1
125	5"	215.9	4-Φ22.4	210	4-Φ23	210	4-Φ23	210	4-Φ19	190	127	277	123.3	390.64	54.4	7
150	6"	241.3	4-Φ22.4	240	4-Φ23	240	4-Φ23	240	4-Φ23	211	139	277	155.1	423.64	55.8	8.5

Pneumatic Actuator Opertated

PNEUMATIC ACTUATOR

- Rack and pinion design
- Spring return or double acting
- Open and closed adjustment stops
- True NAMUR accessory mounting
- Visual indicator



Dimensions

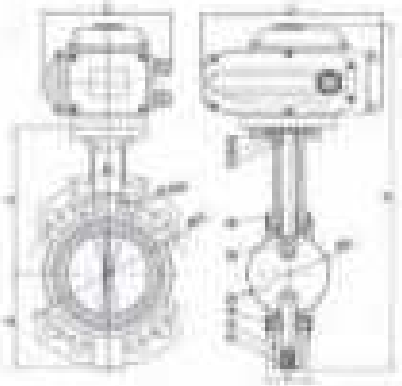
unit: mm

Size		CLASS150		JIS 10K		PN10		PN16		A	B	ΦD	L	DOUBLE ACTING			WT (Kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1					H	L1	C	
32	1¼"	88.9	4-Φ15.9	100	4-Φ19	100	4-Φ19	100	4-Φ19	110	64	34.6	33	263.5	139.5	71	1.4
40	1½"	98.5	4-Φ15.9	105	4-Φ19	110	4-Φ19	110	4-Φ19	120	70	43	33	279.5	139.5	71	2.6
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	140	80	52.9	42	309.5	139.5	71	3.9
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	150	89	64.5	45	339.5	162	80.5	4.9
80	3"	152.4	8-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	156	95	78.8	46	353.5	162	80.5	5.3
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	176	114	104	52	407	207	95	7.4
125	5"	215.9	8-Φ22.4	210	4-Φ23	210	4-Φ23	210	4-Φ19	190	127	123.3	55	445.5	237.5	106	10.2
150	6"	241.3	8-Φ22.4	240	4-Φ23	240	8-Φ23	240	4-Φ23	211	139	155.1	56	491.5	271.5	123	13.5
200	8"	298.5	8-Φ22.4	290	4-Φ23	295	8-Φ23	295	8-Φ23	235	175	202.5	61	586.5	329	137	20.5
250	10"	362.0	12-Φ25.4	355	8-Φ25	350	8-Φ33	355	8-Φ28	265	203	250.5	66	651.5	366	148	29.2

Electric Actuator Operated

ELECTRIC ACTUATOR

- AC 24V, 220V, 230V, 380V
  DC 12V, 24V
- NEMA 4 and NEMA 7 enclosures
- Manual override
- visual indicator



Dimensions

unit: mm

Size		CLASS150		JIS 10K		PN10		PN16		A	B	ΦD	L	H	L1	C	WT (Kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1								
32	1¼"	88.9	4-Φ15.9	100	4-Φ19	100	4-Φ19	100	4-Φ19	110	64	34.6	33	211.5	165	140.5	2.9
40	1½"	98.5	4-Φ15.9	105	4-Φ19	110	4-Φ19	110	4-Φ19	120	70	43	33	227.5	165	140.5	3.3
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	140	80	52.9	42	257.5	165	140.5	4.6
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	150	89	64.5	45	276.5	165	140.5	5.1
80	3"	152.4	8-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	156	95	78.8	46	290.5	211.5	140.5	5.5
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	176	114	104	52	458.5	211.5	154	8.4
125	5"	215.9	8-Φ22.4	210	4-Φ23	210	4-Φ23	210	4-Φ19	190	127	123.3	55	485.5	259	154	10.3
150	6"	241.3	8-Φ22.4	240	4-Φ23	240	8-Φ23	240	4-Φ23	211	139	155.1	56	553	259	186	15
200	8"	298.5	8-Φ22.4	290	4-Φ23	295	8-Φ23	295	8-Φ23	235	175	202.5	61	613	259	186	19
250	10"	362.0	12-Φ25.4	355	8-Φ25	350	8-Φ33	355	8-Φ28	265	203	250.5	66	671	283.5	186	26.7

Technical Material List

APPLICABLE STANDARDS & TECHNICAL NOTES:			
DESIGN CODE	API609	END STANDARD	ANSI 150#/JIS 10K
INSPECTION&TEST	API598	FACE TO FACE	API609

NO.	PARTS NAME	MATERIAL	QTY	NO.	PARTS NAEM	MATERIAL	QTY
1	TOP SEAL	CARBON STEEL	1	6	LONG BUSHING	PTFE	1
2	BODY	DI/WCB/CF8/CF8M	1	7	SHORT BUSHING	PTFE	1
3	SEAT	EPDM	1	8	O-RING	NBR	2
4	DISC	WCB/DI+NYLON/ CF8/CF8M	1	9	THRUST INSERT	CARBON STEEL	1
5	STEM	SS416	2				

TEST PRESSURE		
	SHELL	SEAL
HYDROSTATIC	24/15 kg/cm²	17.6/11 kg/cm²
AIR	—	—

TITLE: WAFER BUTTERFLEY VALVE			
SIZE	DN32-DN250	DWG NO.	FTD114000003-1.1

8 – STEM: Precision square disc to stem connection drives the disc without the need for screws or pins. The close tolerance, square connection that drives the valve disc is an exclusive feature of the Flowx valve. Disassembly of the Flowx stem is just a matter of pulling the stem out of the disc.

1 – STEM RETAINING ASSEMBLY: The stem is retained in the body by means of a unique stainless steel Spirolox ® retaining ring, a thrust washer and two O-rings, manufactured from brass as standard, stainless steel upon request.

2 – STEM BUSHING: Non-corrosive, heavy duty acetal bushing absorbs actuator side thrust.

3 – STEM SEAL: Double "U" cup seal design is self-adjusting and gives positive sealing in both directions.

4 – PRIMARY AND SECONDARY SEALS: These seals prevent the media from coming in contact with the stem or body. The primary seal is an interference fit of the molded seat fat with the disc hub. The secondary seal is created because the stem diameter is greater than the diameter of the seat stem hole.

5 – BODY: One piece wafer or lug style. Polyester coating for excellent corrosion resistance. Nylon 11 coating is available as an option.

6 – SEAT: Flowx's tongue and groove seat design provides complete isolation of flowing media from the body. The seat also features a molded o-ring which eliminates the use of flange gaskets.

7 – DISC: Casting is spherically machined and hand polished to provide a bubble tight shutoff, minimum torque, and longer seat life. Flowx's resilient Nylon 11 coating comes as standard.

Product Description

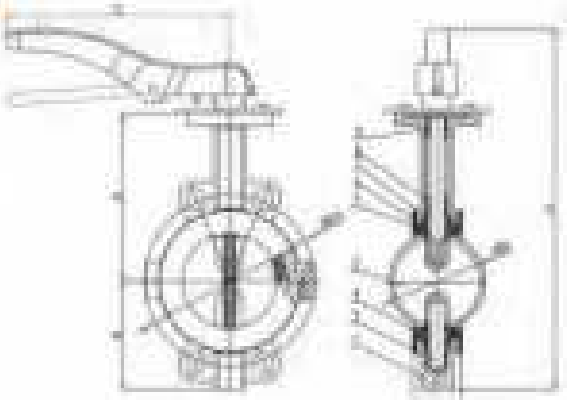
- The lining butterfly valve body is a split type combination. Easy to assemble and seal adjustment, when the valve is working, only the fluoroplastic seat and the fluoroplastic valve plate are in contact with the medium.
- The inner surface of the valve body channel is smooth, the fluid resistance is small, the CV value is high, the circulation capacity is strong, the torque is moderate, and the zero leakage of the medium is completely achieved. The valve is small in size, light in weight, compact in structure, rapid in switching, beautiful in appearance, and excellent in craftsmanship. Reliable performance, light operation, long service life.
- The valve can withstand any corrosive media other than molten alkali metals and elements. It is a gas, liquid, semi-fluid pipeline and container for chemical, petroleum, pharmaceutical, food, steel smelting, papermaking, hydropower, and environmental protection systems. Do a quick cut-off and adjust the best product for your device.
- Lining materials: PTFE, FEP, PFA, GXPO, etc
- Connection form: clip type, flange type, lug type connection
- Drive mode: manual, turbine, electric, pneumatic

Main specification

Nominal Size	Operation Type	Work Pressure	Work Temperature	Seal Material	Disc Material	Body Material	Medium	Application	Connection Standard
DN25 ↓ 300	Pneumatic Actuator Electric Actuator Manual Hand Lever Worm Gear	PN1.0 PN1.6	-20-150°C	PTFE FEP PFA GXPO	WCB SS304	Ductile Iron WCB Stainless Steel	Strong Acid Strong Alkali Strong Oxidant	Lithium Battery Desalination Coal Chemical Chemical Industry Rubber Papermaking Pharmacy	PN10/PN16 ANSI150 DIN16 RS10K/16K

Connection Type Wafer Type/Flanged Type/Lug Type,ect.

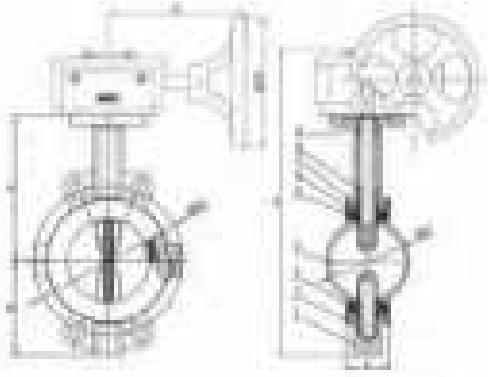
Manual Handle Lever Operated



Dimensions

Size		CLASS150		JIS 10K		PN10		PN16		A	B	L	ΦD	H	C	WT (kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1							
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	140	80	43	53	268	213	-
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	150	89	45	63	307	213	-
80	3"	152.4	4-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	158	95	45	79	321	213	-
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	176	114	52	104	378	277	-
125	5"	215.9	8-Φ22.4	210	8-Φ23	210	8-Φ23	210	8-Φ19	190	125	56	123.5	406	277	-
150	6"	241.3	8-Φ22.4	240	8-Φ23	240	8-Φ23	240	8-Φ23	210	139	56	155.1	438	277	-

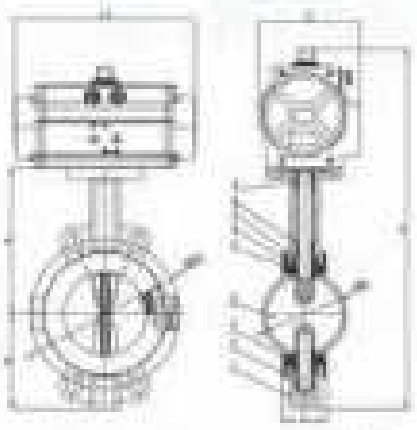
Worm Gear Operated



Dimensions

Size		CLASS150		JIS 10K		PN10		PN16		A	B	L	ΦD	H	C	WT (kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1							
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	140	80	43	53	268	120	-
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	150	89	45	63	287	120	-
80	3"	152.4	4-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	158	95	45	79	301	120	-
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	176	114	52	104	338	120	-
125	5"	215.9	8-Φ22.4	210	8-Φ23	210	8-Φ23	210	8-Φ23	190	125	56	123.5	365	120	-
150	6"	241.3	8-Φ22.4	240	8-Φ23	240	8-Φ23	240	8-Φ23	210	139	56	155.1	397	120	-
200	8"	298.5	8-Φ22.4	290	8-Φ23	295	8-Φ23	295	8-Φ23	236	175	60	202.5	467	200	-
250	10"	361.9	8-Φ25.4	355	8-Φ25	350	8-Φ23	355	8-Φ28	275	203	68	250.5	534	200	-
300	12"	431.8	8-Φ25.4	400	8-Φ25	400	8-Φ23	410	8-Φ28	305	242	78	301.5	618	300	-
350	14"	476	8-Φ28.5	445	8-Φ25	460	8-Φ23	470	8-Φ28	337	284	78	333.1	692	300	-

Pneumatic Actuator Opertated

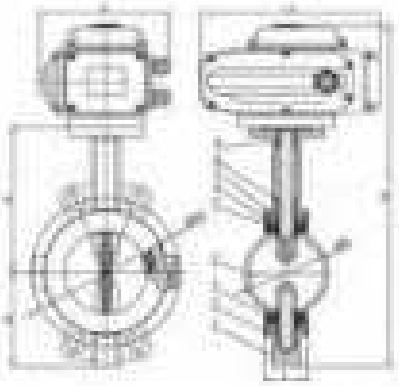


Dimensions

unit: mm

Size		CLASS150		JIS 10K		PN10		PN16		A	B	L	ΦD	H	L1	C	WT (KG)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1								
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	140	80	43	53	320.5	182	80.5	–
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	150	89	45	65	356	207	85	–
80	3"	152.4	4-Φ19.1	150	4-Φ19	160	4-Φ19	160	4-Φ19	156	95	45	79	370	207	85	–
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	176	114	52	104	418.5	237.5	106	–
125	5"	215.9	8-Φ22.4	210	8-Φ23	210	8-Φ23	210	8-Φ23	190	125	56	123.3	468.5	271.5	123	–
150	6"	241.3	8-Φ22.4	240	8-Φ23	240	8-Φ23	240	8-Φ23	210	139	56	155.1	520.5	328	137	–
200	8"	298.5	8-Φ22.4	290	8-Φ23	295	8-Φ23	295	8-Φ23	236	175	60	202.5	594.5	366	149	–
250	10"	361.9	12-Φ25.4	355	12-Φ25	350	12-Φ23	355	12-Φ28	275	209	68	256.5	684	428	164	–
300	12"	431.8	12-Φ25.4	400	12-Φ25	400	12-Φ23	410	12-Φ28	305	242	78	301.5	769	430	186.5	–
350	14"	476	12-Φ28.5	445	12-Φ25	460	12-Φ23	470	16-Φ28	337	264	78	333.1	871	482	204	–

Electric Actuator Operated



Dimensions

unit: mm

Size		CLASS150		JIS 10K		PN10		PN16		A	B	L	ΦD	H	L1	C	WT (KG)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1								
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	140	80	43	53	357.5	182	140.5	–
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	150	89	45	65	407.5	211.5	154	–
80	3"	152.4	4-Φ19.1	150	4-Φ19	160	4-Φ19	160	4-Φ19	156	95	45	79	421.5	211.5	154	–
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	176	114	52	104	493	259	186	–
125	5"	215.9	8-Φ22.4	210	8-Φ23	210	8-Φ23	210	8-Φ23	190	127	56	123.3	520	259	186	–
150	6"	241.3	8-Φ22.4	240	8-Φ23	240	8-Φ23	240	8-Φ23	210	139	56	155.1	552	259	186	–
200	8"	298.5	8-Φ22.4	290	8-Φ23	295	8-Φ23	295	8-Φ23	236	175	60	202.5	614	259	186	–
250	10"	361.9	12-Φ25.4	355	12-Φ25	350	12-Φ23	355	12-Φ28	275	209	68	256.5	684	259	186	–
300	12"	431.8	12-Φ25.4	400	12-Φ25	400	12-Φ23	410	12-Φ28	305	242	78	301.5	776.5	283.5	193	–
350	14"	476	16-Φ28.5	445	12-Φ25	460	16-Φ23	470	16-Φ28	337	264	78	333.1	850.5	283.5	193	–

Features

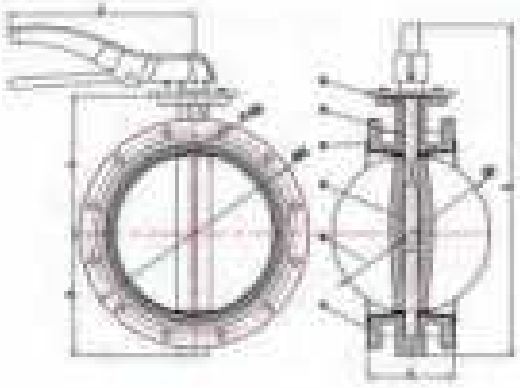
- Small and lightweight, easy to disassemble and repair, and can be installed in any position.
- The structure is simple and compact, the operating torque is small, and the rotation of 90° turns on quickly.
- The flow characteristics of the linear trend, good regulation performance.
- The connection between the butterfly plate and the valve stem adopts a non-pin structure to overcome possible internal leakage points.
- The spherical shape of the outer circle of the butterfly plate improves the sealing performance and prolongs the service life of the valve. The zero leakage is still maintained when the pressure is switched on and off more than 50,000 times.
- The seal can be replaced, and the seal is reliable to achieve two-way seal.
- The butterfly board can be sprayed with layers according to user requirements, such as nylon or polytetrafluoroethylene.
- Flange butterfly valve is suitable for temperature ≤ 120 °C or ≤ 150 °C, nominal pressure ≤ 1.6MPa water supply and drainage, sewage, food, heating, gas, shipbuilding, hydropower, metallurgy, energy systems and textile and other industries, especially for two-way sealing and Easy to corrode valve body, adjust flow and shutoff medium.



Main Specification

Nominal Size	Operated Type	Work Pressure	Work Temperature	Seal Material	Disc Material	Body Material	Medium	Application	Connection Standard
DN25	Pneumatic Actuator	PN6	-15-80℃	EPDM	SS304/SS316	Ductile iron	Water	Water Treatment	PN10/PN16
|	Electric Actuator	PN10	20-120℃	PTFE	Aluminum Bronze	SS304/SS316	Oil	Municipal Engineer	ANSI150
|	Manual Hand Lever	PN16	-15-65℃	NBR	Nylon	WCB	Gas	Pharmacy	DIN16
1200	Worm Gear		20-200℃	VITON	Ductile iron 2205 2507 1.4529	Aluminum Alloy 2205 2507 1.4529	Powder TGDD	Auto industry	ISO10/16

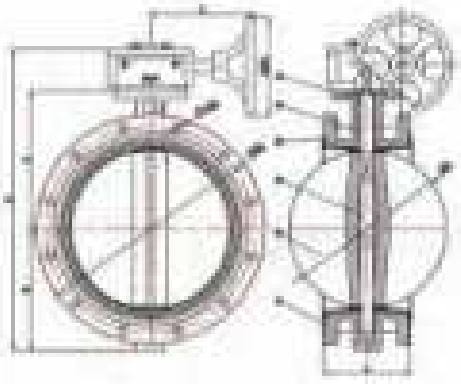
Manual Handle Lever Operated



Dimensions

Size		CLASS150		JIS 10K		PN10		PN16		A	B	L	ΦD	H	C	WT (kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1							
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	116	75	108	52.9	261	213	4.8
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	130	93	112	64.5	281	213	5.6
80	3"	152.4	4-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	145	100	114	78.8	313	213	10
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	155	114	127	104	342	277	12.2
125	5"	215.9	8-Φ22.5	210	8-Φ23	210	8-Φ19	210	8-Φ23	170	125	140	123.3	368	277	17.1
150	6"	241.3	8-Φ22.5	240	8-Φ23	240	8-Φ23	240	8-Φ23	190	143	140	155.1	404	277	29.4
200	8"	298.5	8-Φ22.5	290	12-Φ23	295	8-Φ23	295	12-Φ23	205	170	152	202.5	448	277	27.8

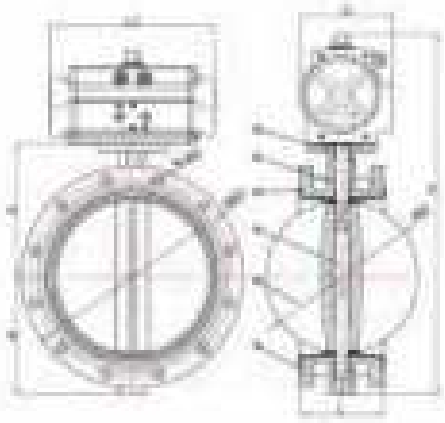
Worm Gear Operated



Dimensions

Size		CLASS150		JIS 10K		PN10		PN16		A	B	L	ΦD	H	C	ΦD3	WT (kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1								
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	116	75	108	52.9	241	99	120	7.2
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	130	93	112	64.5	271	99	120	10
80	3"	152.4	8-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	145	100	114	78.8	293	99	120	10.4
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	155	114	127	104	317	99	120	12.6
125	5"	215.9	8-Φ22.5	210	8-Φ23	210	8-Φ23	210	8-Φ23	170	125	140	123.3	349	115	200	18.3
150	6"	241.3	8-Φ22.5	240	8-Φ23	240	8-Φ23	240	8-Φ23	190	143	140	155.1	367	115	200	20.6
200	8"	298.5	8-Φ22.5	290	12-Φ23	295	8-Φ23	295	12-Φ23	205	170	152	202.5	446	220	300	32.6
250	10"	361.9	12-Φ25.5	355	12-Φ25	350	12-Φ23	355	12-Φ28	235	198	165	250.5	504	220	300	46.1
300	12"	431.8	12-Φ25.5	400	16-Φ25	400	12-Φ23	410	12-Φ28	280	223	178	301.5	574	220	300	61.4

Pneumatic Actuator Opertated

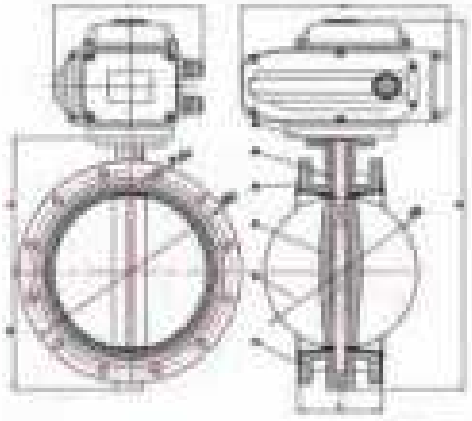


Dimensions

Unit: mm

Size		CLASS150		JIS 10K		PN10		PN16		A	B	L	ΦD	H	H1	C	WT (kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1								
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	116	75	108	52.9	282.5	139.5	75	6.9
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	130	93	112	64.5	323.5	162	80.5	11.2
80	3"	152.4	4-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	143	100	114	78.8	345.5	162	80.5	11.8
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	155	114	127	104	386	207	95	14.8
125	5"	215.9	8-Φ22.5	210	8-Φ23	210	8-Φ23	210	8-Φ19	170	125	140	123.8	423.5	237.5	106	20.6
150	6"	241.3	8-Φ22.5	240	8-Φ23	240	8-Φ23	240	8-Φ23	190	143	140	155.1	474.5	271.5	123	24.5
200	8"	298.5	8-Φ22.5	290	12-Φ23	295	8-Φ23	295	12-Φ23	205	170	152	202.5	548.5	328	137	38
250	10"	361.8	12-Φ25.5	355	12-Φ25	350	12-Φ23	355	12-Φ28	235	198	165	250.5	616.5	366	148	51.3
300	12"	431.8	12-Φ25.5	400	16-Φ25	400	12-Φ23	410	12-Φ28	280	223	178	301.5	709	428	164	71.8
350	14"	476.5	12-Φ28.5	455	16-Φ25	460	16-Φ23	470	16-Φ28	328	250	190	333.5	800	485	186.5	102

Electric Actuator Operated



Dimensions

Unit: mm

Size		CLASS150		JIS 10K		PN10		PN16		A	B	L	ΦD	H	H1	C	WT (kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1								
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	116	75	108	52.9	330.5	165	140.5	8.3
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	140	4-Φ19	130	93	112	64.5	360.5	165	140.5	11.1
80	3"	152.4	4-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	143	100	114	78.8	382.5	165	140.5	11.5
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	155	114	127	104	437.5	211.5	154	15.5
125	5"	215.9	8-Φ22.5	210	8-Φ23	210	8-Φ23	210	8-Φ19	170	125	140	123.8	463.5	211.5	154	20.4
150	6"	241.3	8-Φ22.5	240	8-Φ23	240	8-Φ23	240	8-Φ23	190	143	140	155.1	536	259	186	25.7
200	8"	298.5	8-Φ22.5	290	12-Φ23	295	8-Φ23	295	12-Φ23	205	170	152	202.5	578	259	186	34.5
250	10"	361.8	12-Φ25.5	355	12-Φ25	350	12-Φ23	355	12-Φ28	235	198	165	250.5	636	259	186	48.5
300	12"	431.8	12-Φ25.5	400	16-Φ25	400	12-Φ23	410	12-Φ28	280	223	178	301.5	710.5	283.5	193	67.3
350	14"	476.5	12-Φ28.5	445	16-Φ25	460	16-Φ23	470	16-Φ28	328	250	190	333.5	807.5	283.5	193	94.5

Technical Material List

APPLICABLE STANDARDS & TECHNICAL NOTES:							
DESIGN CODE		API609		END STANDARD		ANSI 150#/JIS 10K	
INSPECTION&TEST		API598		FACE TO FACE		API609	
NO.	PARTS NAME	MATERIAL	QTY	NO.	PARTS NAEM	MATERIAL	QTY
1	BODY	DI/WCB/CF8/CF8M	1	4	SEAT	NBR/EPDM/VITON	1
2	DISC	WCB/DI+NYLON/ CF8/CF8M	1	5	BUSHING	PTFE	4
3	SHAFT	SS410	1	6	O-RING	NBR	1
TEST PRESSURE							
		SHELL		SEAL			
HYDROSTATIC		24/15 kg/cm²		17.6/11 kg/cm²			
AIR		—		—			
TITLE: PNEUMATIC FLANGE BUTTERFLEY VALVE							
SIZE		DN50-DN250		DWG NO.		FD0140000002-1	

1 – STEM: Precision square and double "D" disc to stemconnection drives the disc without the needfor screws or pins. The close tolerance, square and double "D" connection that drives the valve disc is an exclusive feature of the Flowx valve. Disassembly of the Flowx stem is just a matter of pulling the stem out of the disc.

2 – STEM RETAINING ASSEMBLY: The stem is retained in the body by means of a unique stainless steel Spirolox ® retaining ring, a thrust washer and two O-rings, manufactured from brass as standard, stainless steel upon request.

3 – STEM BUSHING: Non-corrosive, heavy duty axial bushing absorbs actuator side thrusts.

4 – STEM SEAL: Double "U" cup seal design is self-adjusting, gives positive sealing in both directions, and prevents external substances from entering the stem bore.

5 – PRIMARY AND SECONDARY SEALS: These seals prevent line media from coming in contact with the stem or body. The primary seal is an interference fit of the molded seat liner with the disc hub. The secondary seal is created because the stem diameter is greater than the diameter of the seat stem hole.

6 – DISC: Casting is spherically machined and hand polished to provide a bubble tight shutoff, minimum torque, and longer seat life. Flowx's resilient Nylon 11 coating comes as standard.

7 – SEAT: Flowx's bonded seat offers lower torque and provides complete isolation of flowing media from the body. The seat also features a molded O-ring which eliminates the use of flange gaskets.

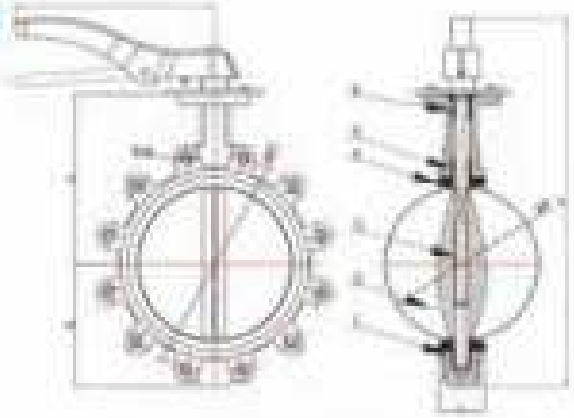
Product Description

- LT type is also called single Plate butterfly valve, lug type butterfly valve
- It is a simple structure of the regulating valve, that can be used for low pressure pipeline medium switching means that the closing element (valve or butterfly plate) is a disk, and rotates around the valve shaft to open and close.
- A valve that can be used to control the flow of various types of fluids such as air, water, steam, various corrosive media, mud, oil products, liquid metals. In the pipeline mainly cut off and throttling effect. Butterfly valve opening and closing device is a disc-shaped butterfly plate, rotating around its own axis in the valve body, so as to achieve the purpose of opening and closing or adjusting.

Main Specification

Nominal Size	Operated Type	Work Pressure	Work Temperature	Seal Material	Disc Material	Body Material	Medium	Application	Connection Standard
DN50	Pneumatic Actuator	PN25	-15-80℃	EPDM	SS304/SS316	Ductile Iron	Water	Water Treatment	PN10/PN16
|	Electric Actuator		-25-150℃	PTFE	Nylon	SS304/SS316	Oil	Municipal Engineer	ANSI150
DN300	Manual Hand Lever		-15-80℃	NBR	Ductile Iron	WCB	Gas	Pharmacy	JIS10K
	Worm Gear		-25-350℃	VITON	2205	Aluminium Alloy	Powder	Auto Industry	BS/DIN/AS
					2507	2205/2507	(GAS)		
					1.4529	1.4529			

Manual Handle Lever Operated

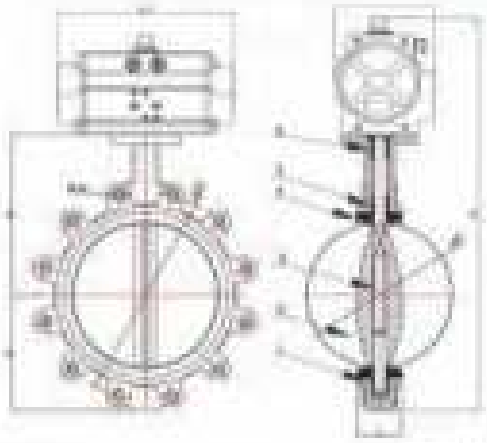


Dimensions

unit: mm

Size		CLASS150		JIS 10K		PN10		PN16		A	B	L	ΦD	H	C	WT (Kg)
DN	NPS	D1	N-M	D1	N-M	D1	N-M	D1	N-M							
50	2"	120.6	4-5/8	125	4-M16	125	4-M16	125	4-M16	140	80	42	53	288	213	-
65	2½"	139.7	4-5/8	145	4-M16	145	4-M16	145	4-M16	150	89	44.7	65	307	213	-
80	3"	152.4	4-5/8	160	8-M16	160	8-M16	160	8-M16	158	95	46	76	321	213	-
100	4"	190.5	8-5/8	180	8-M16	180	8-M16	180	8-M16	175	114	52	104	378	277	-
125	5"	215.9	8-3/4	210	8-M16	210	8-M16	210	8-M16	190	127	54.4	123.2	406	277	-
150	6"	241.3	8-3/4	240	8-M20	240	8-M20	240	8-M20	211	139	55.8	155.1	439	277	-
200	8"	298.5	8-3/4	295	12-M20	295	12-M20	295	12-M20	235	175	60.6	202.5	-	-	-
250	10"	361.9	12-7/8	350	12-M20	350	12-M24	355	12-M24	265	203	65.5	250.5	-	-	-
300	12"	431.8	12-7/8	400	16-M20	400	16-M24	410	16-M24	305	242	76.9	301.5	-	-	-

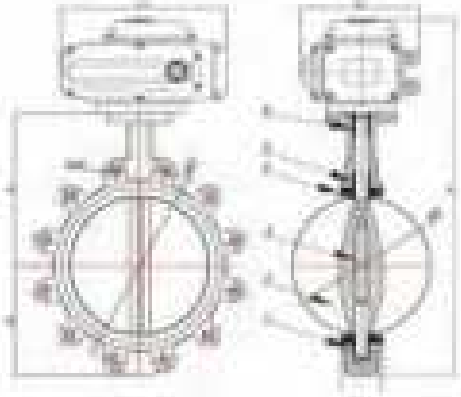
Pneumatic Actuator Opertated



Dimensions

Size		CLASS150		PN10		PN16		A	B	L	ΦD	H	C	L1	WT (kg)
DN	NPS	D1	N-M	D1	N-M	D1	N-M								
50	2"	120.6	4-5/8	125	4-M16	125	4-M16	140	89	42	53	309.5	71	139.5	–
65	2½"	139.7	4-5/8	145	4-M16	145	4-M16	150	89	44.7	63	339.5	80.5	162	–
80	3"	152.4	4-5/8	160	8-M16	160	8-M16	158	95	46	79	353.5	80.5	162	–
100	4"	190.5	8-5/8	180	8-M16	180	8-M16	175	114	52	104	456	95	207	–
125	5"	215.9	8-3/4	210	8-M16	210	8-M16	190	127	54.4	123.3	465.5	106	237.5	–
150	6"	241.3	8-3/4	240	8-M20	240	8-M20	211	139	55.8	155.1	491.5	123	271.5	–
200	8"	298.5	8-3/4	295	12-M20	295	12-M20	233	175	60.6	202.5	581.5	137	328	–
250	10"	361.9	12-7/8	350	12-M20	355	12-M24	265	203	65.5	250.5	651.5	164	366	–
300	12"	431.8	12-7/8	400	16-M20	410	16-M24	305	242	76.9	301.5	753	186.5	428	–

Electric Actuator Operated



Dimensions

Size		CLASS150		PN10		PN16		A	B	L	ΦD	H	C	L1	WT (kg)
DN	NPS	D1	N-M	D1	N-M	D1	N-M								
50	2"	120.6	4-5/8	125	4-M16	125	4-M16	140	89	42	53	357	140.5	165	–
65	2½"	139.7	4-5/8	145	4-M16	145	4-M16	150	89	44.7	63	376	140.5	165	–
80	3"	152.4	4-5/8	160	8-M16	160	8-M16	158	95	46	79	390	140.5	165	–
100	4"	190.5	8-5/8	180	8-M16	180	8-M16	175	114	52	104	478	154	211.5	–
125	5"	215.9	8-3/4	210	8-M16	210	8-M16	190	127	54.4	123.3	485	154	211.5	–
150	6"	241.3	8-3/4	240	8-M20	240	8-M20	211	139	55.8	155.1	553	186	259	–
200	8"	298.5	8-3/4	295	12-M20	295	12-M20	233	175	60.6	202.5	613	186	259	–
250	10"	361.9	12-7/8	350	12-M20	355	12-M24	265	203	65.5	250.5	671	186	259	–
300	12"	431.8	12-7/8	400	16-M20	410	16-M24	305	242	76.9	301.5	771	193	283.5	–

Technical Material List

APPLICABLE STANDARDS & TECHNICAL NOTES:			
DESIGN CODE	API609	END STANDARD	ANSI 150#/JIS 10K
INSPECTION&TEST	API598	FACE TO FACE	API609

NO.	PARTS NAME	MATERIAL	QTY	NO.	PARTS NAME	MATERIAL	QTY
1	BODY	DI/WCB/CF8/CF8M	1	4	SEAT	NBR/EPDM/PTFE/VITON	1
2	DISC	WCB/Ni+NYLON/ CF8/CF8M	1	5	BUSHING	PTFE	4
3	SHAFT	SS410	1	6	O-RING	NBR	1

TEST PRESSURE		
	SHELL	SEAL
HYDROSTATIC	24/15 kg/cm²	17.6/11 kg/cm²
AIR	—	—

TITLE: AN EAR BUTTERFLEY VALVE			
SIZE	DN50-DN300	DWG NO.	FTD114050002-1

1 – STEM BUSHING: Non-corrosive, heavy duty acetal bushing absorbs actuator side thrust.

2 – STEM SEAL: Double "U" cup seal design is self-adjusting and gives positive sealing in both directions.

3 – DISC/STEM: One piece design. The disc edge is spherically machined and hand polished to produce a bubble tight shutoff, minimum torque, and longer seat life. For erosion and abrasion resistance, the one piece disc/stem is available encased in either EPDM or SUS416.

4 – PRIMARY AND SECONDARY SEALS: These seals prevent line media from coming in contact with the stem or body. Primary seal is achieved by an interference fit of the molded seat flat with the disc hub. Secondary seal is created because the stem diameter is greater than the diameter of the seat stem hole.

5 – SEAT: Flowx's tongue and groove seat design provides complete isolation of flowing media from the body. The seat also features a molded o-ring which eliminates the need of flange gaskets.

6 – BODY: Two piece wafer or lug style allows for ease of assembly and maintenance.

7 – BODY COATINGS: For excellent corrosion resistance, Nylon 11 coating is standard for 1"-8" valves and available on larger sizes upon request.Polyester coating is standard for 10"-20" bodies.

Product Description

- Ventilation butterfly valve uses the aluminum alloy material as the valve body to process the seal ring and adopts electric or pneumatic actuator.
- The applicable temperature depends on the valve body selection, nominal pressure ≤ 0.6MPa, generally applicable to industrial, metallurgical, environmental protection and other pipelines for ventilation regulation media flow use.
- Ventilation butterfly valves are used in the dusty cold air or hot air gas pipelines in the ventilation and environmental protection projects in the chemical, building materials, power stations, and glass industries, as a gas medium to regulate the flow or cut off the pipeline control devices.
- This type of valve should generally be installed horizontally in the pipeline.
- When the ventilating butterfly valve is in the fully open position, the thickness of the ventilating disc is the resistance when the medium flows through the valve body, so the pressure drop generated by the valve is very small, so it has better flow control characteristics.

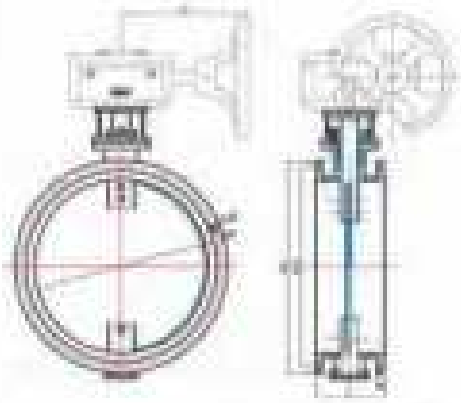
■Main Specification

Nominal Size	Operated Type	Pressure	Temperature	Seal/Disc/Body Material	Medium	Application	Connection Standard
DN50	Pneumatic Actuator	PN6	-15~420℃	Cast Iron	Waste Gas	VTO Incinerator	PN10/PN16
↓	Electric Actuator	PN10		Stainless Steel	Smoke	Ventilating Pipe	ANSI150
↓	Manual Hand Lever	PN16		Alloy Steel	Aeration		DIN16
2000	Worm Gear			Chromium			JIS10K/16K
				Molybdenum Steel			
				Other Special Materials			

■Seal Material Option And Applicable Temperature

Materials	Carbon Steel	Low Carbon Steel	Alloy Steel		Austenitic Stainless Steel	Chromium-molybdenum Steel
Code	WCB	LCB	WC6/WC9	C5/C9	CF8/304/316	12CrMoV
Max Tem	425℃	345℃	595℃	650℃	600℃	560℃
Min Tem	-29℃	-46℃	-29℃	-29℃	-196℃	-40℃
Working temperature	≤425℃	≤345℃	≤595℃	≤650℃	≤600℃	≤560℃

Manual Handle Lever Operated

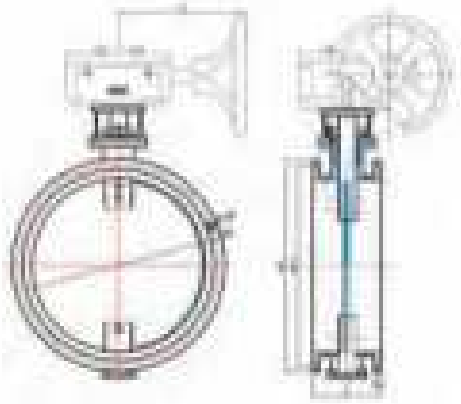


Dimensions

unit: mm

Size DN	Size NPS	h	L	D	Dt	N-Bd	C
80	3"	14	110	185	150	4-Ø18	99
100	4"	14	110	205	170	4-Ø18	99
150	6"	18	110	260	225	8-Ø18	115
200	8"	18	140	315	280	8-Ø18	115
250	10"	18	140	370	335	12-Ø18	115
300	12"	20	170	435	395	12-Ø23	115
350	14"	20	170	485	445	12-Ø23	115
400	16"	20	190	535	495	16-Ø23	220
450	18"	22	190	590	550	16-Ø23	220
500	20"	22	190	640	600	16-Ø23	220

Worm Gear Operated

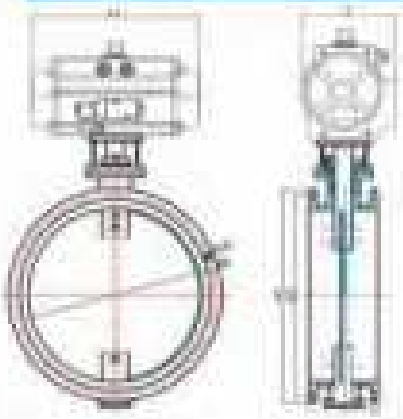


Dimensions

unit: mm

Size DN	Size NPS	h	L	D	Dt	N-Bd	C
80	3"	14	110	185	150	4-Ø18	99
100	4"	14	110	205	170	4-Ø18	99
150	6"	18	110	260	225	8-Ø18	115
200	8"	18	140	315	280	8-Ø18	115
250	10"	18	140	370	335	12-Ø18	115
300	12"	20	170	435	395	12-Ø23	115
350	14"	20	170	485	445	12-Ø23	115
400	16"	20	190	535	495	16-Ø23	220
450	18"	22	190	590	550	16-Ø23	220
500	20"	22	190	640	600	16-Ø23	220

Pneumatic Actuator Opertated

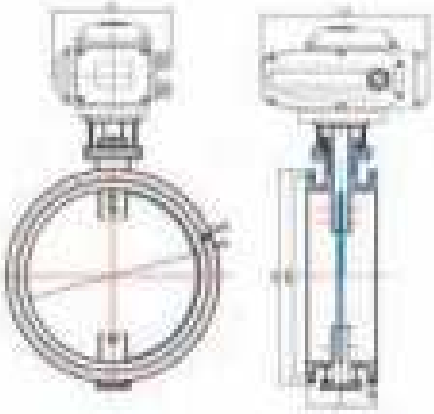


Dimensions

unit: mm

Size DN	Size NPS	b	L	D	D1	N-Φd	L1	C
80	3"	14	110	185	150	4-Φ18	237.5	105
100	4"	14	110	205	170	4-Φ18	237.5	105
150	6"	16	110	260	225	8-Φ18	271.5	121
200	8"	18	140	315	280	8-Φ18	271.5	121
250	10"	18	140	370	335	12-Φ18	338	137
300	12"	20	170	435	395	12-Φ23	338	137
350	14"	20	170	485	445	12-Φ23	366	148
400	16"	20	190	535	495	16-Φ23	366	148
450	18"	22	190	590	550	16-Φ23	428	164
500	20"	22	190	640	600	16-Φ23	428	164

Electric Actuator Operated



Dimensions

unit: mm

Size DN	Size NPS	h	L	D	D1	N-Φd	L1	C
80	3"	14	110	185	150	4-Φ18	211.5	154
100	4"	14	110	205	170	4-Φ18	211.5	157
150	6"	16	110	260	225	8-Φ18	259	186
200	8"	18	140	315	280	8-Φ18	259	186
250	10"	18	140	370	335	12-Φ18	259	186
300	12"	20	170	435	395	12-Φ23	259	186
350	14"	20	170	485	445	12-Φ23	259	186
400	16"	20	190	535	495	16-Φ23	259	186
450	18"	22	190	590	550	16-Φ23	259	186
500	20"	22	190	640	600	16-Φ23	259	186

Product Description

- Simple structure, good interchangeability, and low price.
- The stem seal is not easily deformed to avoid the normal stem leakage, and the overall support is good, stable and firm.
- With less seat rubber, there is less potential for expansion and it is easier to control the torque within the proper range.
- The use of two-piece valve stems with no pin connection, the structure is simple and compact, and maintenance and disassembly are very convenient.
- The butterfly board has the function of automatic centering, and the butterfly board and valve seat are closely matched.0

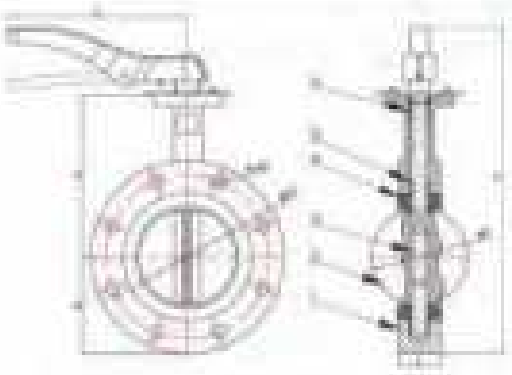
  The phenolic back valve seat has the characteristics of not falling off, tensile resistance, leakage prevention and easy replacement.
- Surface: Polyester, RAL9006, 100μ
- Face-to-face: EN558-1
- Counter flange: DN40-DN300, PN10/16/ANSI150
- BS10 TABLE D/E, JIS 10K, 16K
- DN350 -DN600 PN10 or ANSI150 BS10 TABLE D/E



Main Specification

Nominal Size	Operated Type	Pressure	Temperature	Seat Material	Disc Material	Body Material	Medium	Application	Connection Standard
DN50	Pneumatic Actuator	PN2	-15-85℃	FPM	WCB	Ductile iron	Strong Acid	Water	PN10/PN16
↓	Electric Actuator	PN1.0	15-150℃	EPDM	1Cr18Ni9Ti		Strong Alkali	Gas	ANSI150
DN	Manual Hand Lever	PN1.6			SS316		Rubber	Rubber	DN10
300	Worm Gear				Polishing Plate				JIS10K/16K

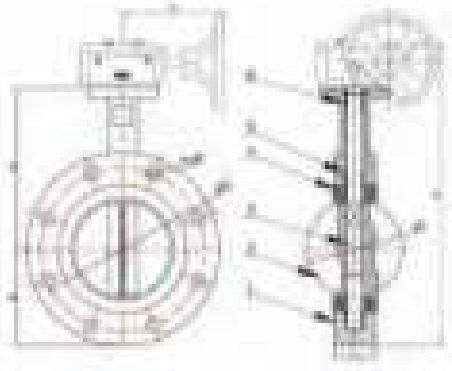
Manual Handle Lever Operated



Dimensions

Size		CLASS150		JIS 10K		PN10		PN16		A	B	ΦD	L	H	C	WT (kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1							
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	161	93	52.9	42	212	213	–
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	175	93	64.5	45	336	213	–
80	3"	152.4	4-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	181	95	78.8	46	344	213	–
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	203	114	104	52	403	277	–
125	5"	215.9	8-Φ22.4	210	8-Φ23	210	8-Φ19	210	8-Φ19	213	127	123.3	55	429	277	–
150	6"	241.3	8-Φ22.4	240	8-Φ23	240	8-Φ23	240	8-Φ23	226	139	155.1	56	454	277	–
200	8"	298.5	8-Φ22.4	290	12-Φ23	295	8-Φ23	295	12-Φ23	260	175	202.5	61	–	–	–
250	10"	361.9	12-Φ22.4	355	12-Φ25	350	12-Φ23	355	12-Φ28	292	203	250.5	66	–	–	–
300	12"	431.8	12-Φ22.4	400	16-Φ25	400	12-Φ23	410	12-Φ28	337	242	301.5	77	–	–	–
350	14"	476	12-Φ28.5	445	16-Φ25	460	16-Φ23	470	16-Φ28	368	267	333.3	77	–	–	–

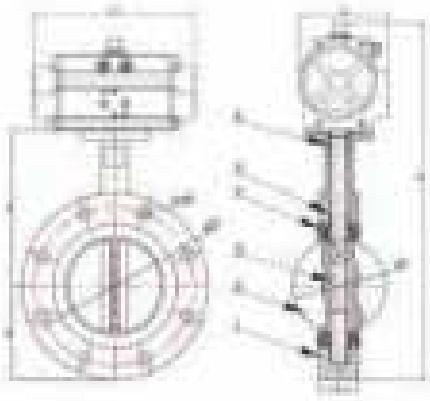
Worm Gear Operated



Dimensions

Size		CLASS150		JIS 10K		PN10		PN16		A	B	ΦD	L	H	C	WT (kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1							
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	161	93	52.9	42	292	99	–
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	175	93	64.5	45	316	99	–
80	3"	152.4	4-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	181	95	78.8	46	324	99	–
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	203	114	104	52	382	99	–
125	5"	215.9	8-Φ22.4	210	8-Φ23	210	8-Φ19	210	8-Φ19	213	127	123.3	55	394	115	–
150	6"	241.3	8-Φ22.4	240	8-Φ23	240	8-Φ23	240	8-Φ23	226	139	155.1	56	419	115	–
200	8"	298.5	8-Φ22.4	290	12-Φ23	295	8-Φ23	295	12-Φ23	260	175	202.5	61	506	220	–
250	10"	361.9	12-Φ22.4	355	12-Φ25	350	12-Φ23	355	12-Φ28	292	203	250.5	66	566	220	–
300	12"	431.8	12-Φ22.4	400	16-Φ25	400	12-Φ23	410	12-Φ28	337	242	301.5	77	660	220	–
350	14"	476	12-Φ28.5	445	16-Φ25	460	16-Φ23	470	16-Φ28	368	267	333.3	77	715	323	–

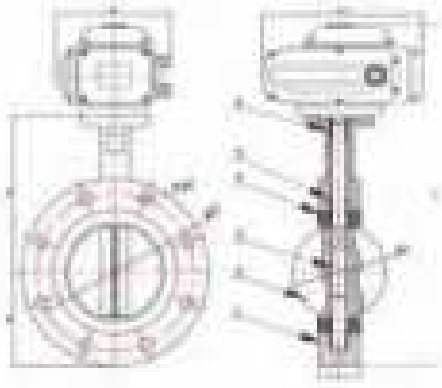
Pneumatic Actuator Operated



Dimensions

Size		CLASS150		JIS 10K		PN10		PN16		A	B	ΦD	L	H	L1	C	WT (Kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1								
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	181	88	52.9	42	333.5	139.5	71	–
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	175	93	64.5	45	360.5	162	80.5	–
80	3"	152.4	4-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	181	95	78.9	46	376.5	163	80.5	–
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	200	114	104	52	431	207	95	–
125	5"	215.9	8-Φ22.4	210	8-Φ23	210	8-Φ19	210	8-Φ19	213	127	123.3	55	468.5	237.5	106	–
150	6"	241.3	8-Φ22.4	240	8-Φ23	240	8-Φ23	240	8-Φ23	226	139	155.1	56	542.5	271.5	122	–
200	8"	298.5	8-Φ22.4	290	12-Φ23	295	8-Φ23	295	12-Φ23	260	175	202.5	61	606.5	328	137	–
250	10"	361.9	12-Φ22.4	355	12-Φ25	350	12-Φ23	355	12-Φ28	292	203	250.5	66	678.5	366	148	–
300	12"	431.8	12-Φ22.4	400	16-Φ25	400	12-Φ23	410	12-Φ28	337	242	301.5	77	783	428	164	–
350	14"	476	12-Φ25.5	445	16-Φ25	460	16-Φ23	470	16-Φ28	368	267	333.3	77	857	490	186.5	–

Electric Actuator Operated



Dimensions

Size		CLASS150		JIS 10K		PN10		PN16		A	B	ΦD	L	H	L1	C	WT (Kg)
DN	NPS	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1	D1	N-Φd1								
50	2"	120.6	4-Φ19.1	120	4-Φ19	125	4-Φ19	125	4-Φ19	181	88	52.9	42	381.5	165	140.5	–
65	2½"	139.7	4-Φ19.1	140	4-Φ19	145	4-Φ19	145	4-Φ19	175	93	64.5	45	405.5	165	140.5	–
80	3"	152.4	4-Φ19.1	150	8-Φ19	160	8-Φ19	160	8-Φ19	181	95	78.9	46	413.5	165	140.5	–
100	4"	190.5	8-Φ19.1	175	8-Φ19	180	8-Φ19	180	8-Φ19	200	114	104	52	482.5	231.5	154	–
125	5"	215.9	8-Φ22.4	210	8-Φ23	210	8-Φ19	210	8-Φ19	213	127	123.3	55	508.5	231.5	154	–
150	6"	241.3	8-Φ22.4	240	8-Φ23	240	8-Φ23	240	8-Φ23	226	139	155.1	56	568	258	166	–
200	8"	298.5	8-Φ22.4	290	12-Φ23	295	8-Φ23	295	12-Φ23	260	175	202.5	61	638	259	166	–
250	10"	361.9	12-Φ22.4	355	12-Φ25	350	12-Φ23	355	12-Φ28	292	203	250.5	66	696	259	166	–
300	12"	431.8	12-Φ22.4	400	16-Φ25	400	12-Φ23	410	12-Φ28	337	242	301.5	77	908.5	283.5	193	–
350	14"	476	12-Φ25.5	445	16-Φ25	460	16-Φ23	470	16-Φ28	368	267	333.3	77	864.5	283.5	193	–

Technical Material List

APPLICABLE STANDARDS & TECHNICAL NOTES							
DESIGN CODE		API609		END STANDARD		ANSI 150#/DS 10K	
INSPECTION&TEST		API598		FACE TO FACE		API609	
NO	PARTS NAME	MATERIAL	QTY	NO	PARTS NAEM	MATERIAL	QTY
1	BODY	DI/WCB/CF8/CF8M	1	8	SEAT	NBR/EPDM/PTFE/VITON	1
2	DISC	WCB/DI+NYLON/ CF8/CF8M	1	9	BUSHING	PTFE	4
3	SHAFT	SS410	1	6	O-RING	NBR	1
TEST PRESSURE							
		SHELL		SEAL			
HYDROSTATIC		24/15 kg/cm²		17.6/11 kg/cm²			
AIR		—		—			
TITLE: U TYPE FLANGED BUTTERFLY VALVE							
SIZE		DN50-DN300		DWG NO.		FT0114(0050)-11	

1 – UPPER STEM BUSHING: An upper stem bushing, retained by a stainless steel ring, is provided to absorb actuator side thrusts and is acetal as standard or PTFE as an option.

2 – UPPER STEM SEAL: Keeps environmental contaminants from entering the stem bore.

3 – BODY: Bodies are two piece wafer or lug style and are epoxy coated. All bodies meet full ASME Class 150 OR DIN 3840 flange drilling requirements (24" body is double flanged).

4 – BEARINGS: PTFE impregnated steel bearings provided for the precision alignment of the upper and lower stem.

5 – BLOWOUT PROOF STEM: A shoulder is machined into the upper stem. The stem and the disc are pressed together during assembly creating a positive stem to disc connection.

6 – PRIMARY SEAL: The primary seal is achieved by an interference fit between the extra wide disc hubs and contoured seat.

7 – SEAT DESIGN: The unique seat geometry lowers sealing and unseating torque while reducing wear on the contacting parts.

8 – SEAT ENERGIZER: A resilient seat energizer extends completely around the seat, including the disc hub providing uniform force sufficient for bubble tight shutoff.

9 – DISC: The encapsulated disc has 1/8" (3 mm)minimum thickness of virgin PTFE or PFA lined over stainless steel.

Product Description

- FLOWX series powder pneumatic butterfly valve is used advanced Italian technology by first-class engineers to make bold breakthroughs and innovations in the material technology and a new development of a powder, granular materials, material delivery Since the advent of new industrial products and products, it has created a series of successful applications in extremely harsh environments with granular media, and is very popular by owners and technical engineers in the powder industry.
- The valve body is made of lightweight high-pressure cast aluminum alloy with light weight, valve plate is lined with a steel core of wear-resistant polymer materials, and wear-resistant rubber seals to form a high wear resistance soft seal, wear and then strong can also be applied.
- The application of granular materials, especially for abrasive materials, in powder and granular material processing systems that require gravity blanking or pneumatic conveying. It is suitable for powder and particle materials with gravity blanking and gas conveying. Processing system. .Is specially used for powder/cement material industry products, installed in the hopper, silo, bins.
- Single Flanged(S) and Double Flanged(D) is for your reference.

FLOWX-S:

1	Bracket	Cast Aluminium Alloy
2	Shaft Sleeve	Nylon
3	Body	Cast Aluminium Alloy
4	Disc	Wear Resistant Polymer Material
5	Sealing Ring	NBR
6	Shaft Sleeve	Nylon
7	Body	Cast aluminium alloy

FLOWX-A:

1	Bracket	Cast Aluminium Alloy
2	Shaft Sleeve	Nylon
3	Body	Cast Aluminium Alloy
4	Disc	SS304/316
5	EPDM	Rubber
6	Sealing Ring	Nylon
7	Shaft Sleeve	Cast Aluminium Alloy

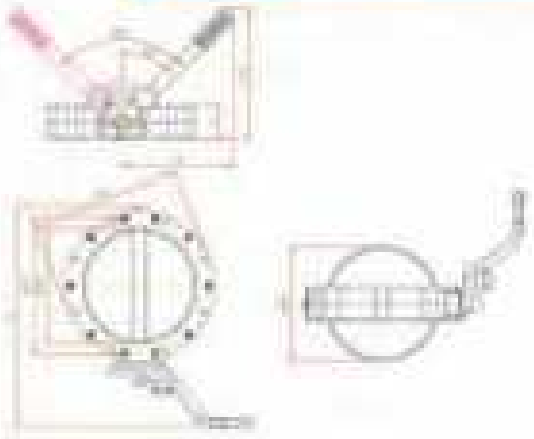
Main Specification

Nominal Size	Operator Type	Work Pressure	Work Temperature	Seat Material	Disc Material	Body Material	Medium	Application	Connection Standard
DN50	Pneumatic Actuator	≤0.1	-15-85℃	EPDM	SS304	WCB	Dust	Rubber	PN10/PN16
⋮	Electric Actuator			NBR	SS316		Powder	Papermaking	ANSI150
	Manual Hand Lever			VITON			Cement	Pharmacy	DIN16
2''	Worm Gear								JIS10K/16K

Disc Material: Wear Resistant Polymer **Body Material**: Aluminum Casting Alloy **Medium**: Others Powder Granule Materials
Application: Coal Chemical Industry, Petrochemical Industry

FLOWX

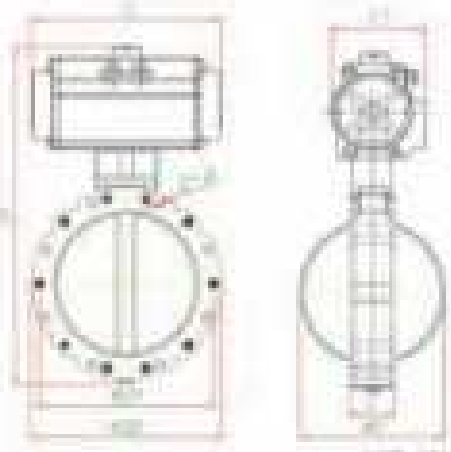
Manual Handle Lever Operated



Dimensions

Size		D	D1	D2	D3	H	H1	L	A
DN	NPS								
100	4"	220	180	100	100	454	286	77	347
150	6"	228	200	150	150	380	286	77	347
200	8"	278	250	200	200	430	286	77	347
250	10"	328	300	250	250	480	286	77	347
300	12"	378	350	300	300	530	286	77	347
350	14"	440	400	350	350	537	413	85	370
400	16"	530	470	400	400	594	413	85	370

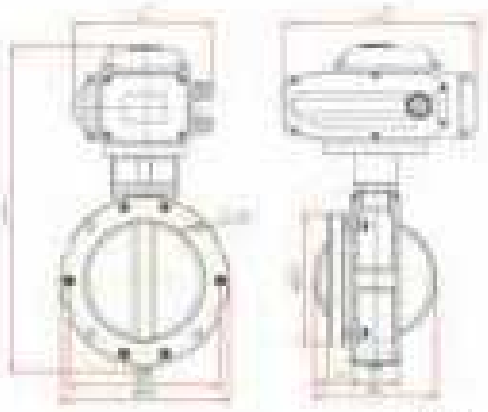
Pneumatic Actuator Operated



Dimensions

Size		D	D1	D2	Z-Φ	L	L1	C	H
DN	NPS								
100	4"	100	180	220	4-Φ14	77	94.5	209	373
150	6"	150	200	228	4-Φ14	77	109	245	417
200	8"	200	250	278	4-Φ14	77	123	266	474
250	10"	250	300	328	8-Φ14	77	137	328	579
300	12"	300	350	378	8-Φ14	77	148	340	638
350	14"	350	400	440	8-Φ14	85	168.5	401	721
400	16"	400	470	530	8-Φ14	85	168.5	430	779

Electric Actuator Operated



Dimensions

Size DN	Size KPS	D	D1	D2	D3	Z-d	L	L1	L2	C	H
100	4"	100	180	220	158	4-Φ14	77	40	211.5	154	424
150	6"	150	200	225	164	4-Φ14	77	40	259	186	464
200	8"	200	250	278	214	4-Φ14	77	40	259	186	535
250	10"	250	300	328	264	8-Φ14	77	40	259	186	604
300	12"	300	350	378	314	8-Φ14	77	40	259	186	632
350	14"	350	400	440	362	8-Φ14	85	40	259	186	715
400	16"	400	470	530	412	8-Φ14	85	40	283.5	193	787

Technical Material List

APPLICABLE STANDARDS & TECHNICAL NOTES			
DESIGN CODE	EN593/BS5155/API609	END STANDARD	EN1092/PN10/ANSI 150#/JIS 10K
INSPECTION&TEST	EN12266-1/API598	FACE TO FACE	EN558-1/API609

NO.	PARTS NAEM	MATERIAL	NO.	PARTS NAEM	MATERIAL
1	BODY	PVC/CPVC/FR-PP	4	O-RING	EPDM/FPM
2	SEAT	EPDM/FPM	5	STEM	4Cr/420/304/316
3	DISC	PVC/CPVC/FR-PP			

TEST PRESSURE		
	SHELL	SEAL
HYDROSTATIC	24/15 kg/cm²	17.6/11 kg/cm²
AIR	—	—

TITLE: POWDER BUTTERFLY VALVE			
SIZE	DN50-DN200	DWG NO.	FF1030111GB

Product Description

- UPVC plastic butterfly valve body with light weight, strong corrosion resistance, compact and beautiful appearance, light weight body easy to install, a wide range of applications, material hygiene without DU, wear-resistant, easy to disassemble, easy maintenance, suitable for fluid: water , air, oils, corrosive chemical liquids, etc.
- RPP -20°C~90°C
- UPVC -10°C~70°C
- CPVC -40°C~95°C
- PPH -20°C~95°C
- Valve body light weight, strong corrosion resistance
- Compact and beautiful appearance
- The body is light and easy to install
- High corrosion resistance, wide application range

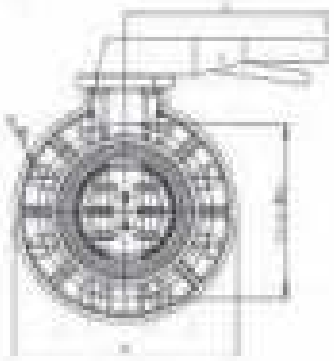
UPVC Butterfly Valve Handle Material:

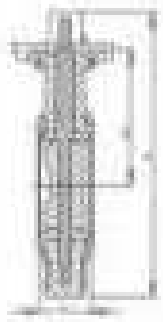
NO.	PARTS NAME	MATERIAL	QTY
1	Body	PVC\CPVC\PPG\PPH	1
2	Seat	EPDM\FPM	1
3	Body	PVC\CPVC\PPG\PPH	1
4	Disc	EPDM\FPM	2
5	O-Ring	SS304\SS316	1
6	Handle	ABS	1
7	Spring	SS304	1
8	Lever	ABS	1
9	Bearing	PP GF	1

Main Specification

Nominal Size	Operated Type	Work Pressure	Work Temperature	Seal Material	Disc/Body Material	Medium	Application	Connection Standard
DN50 ↓ 200	Pneumatic Actuator Electric Actuator Manual Hand Lever Worm Gear	PN0.6 PN1.0	-15-85°C	PTFE EPDM	UPVC CPV PPG FRPP PPH PP PP-R ABS	Potable Water Sewage High Purity Water	Chemical Industry Agriculture Pharmacy Environmental Protection	PN10/PN16 ANSI150 10K BS10E/16E

Manual Handle Lever Operated

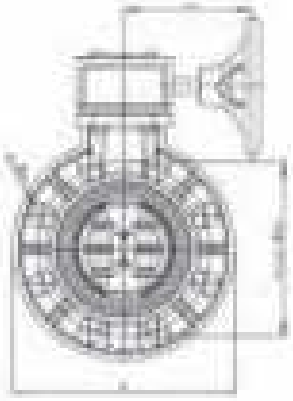


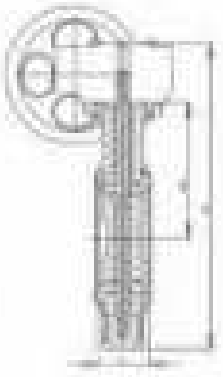


Dimensions

Size		DIN		ANSI 150		JIS 10K		T	H1	L	L1	H	C1	E	F	4-C
DN	NPS	n-Φe	P.C.D.ΦD1	n-Φe	P.C.D.ΦD1	n-Φe	P.C.D.ΦD1									
50	2"	4-Φ19	125	4-Φ19	121	4-Φ19	120	12	100	43	190	223	140.5	65	50	4-7
65	2½"	4-Φ19	145	4-Φ19	140	4-Φ19	140	12	112	46	190	245	140.5	65	50	4-7
80	3"	8-Φ19	160	4-Φ19	152	8-Φ19	150	12	120	49	240	270	140.5	65	50	4-7
100	4"	8-Φ19	180	8-Φ19	191	8-Φ19	175	12	140	54	240	308	154	65 90	50 70	4-7 4-10
125	5"	8-Φ19	210	8-Φ19	216	8-Φ19	210	15	168	64	310	352	154	90	70	4-10
150	6"	8-Φ23	240	8-Φ23	241	8-Φ23	240	15	181	70	310	352	186	90	70	4-10
200	8"	8-Φ23	295	8-Φ23	298	8-Φ23	290	15	215	88	–	–	186	125	102	4-12

Worm Gear Operated

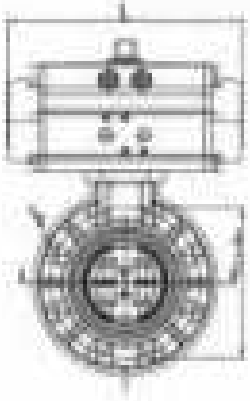


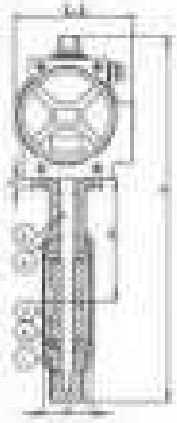


Dimensions

Size		DIN		ANSI 150		JIS 10K		T	H1	L	L1	H	C1	E	F	4-C
DN	NPS	n-Φe	P.C.D.ΦD1	n-Φe	P.C.D.ΦD1	n-Φe	P.C.D.ΦD1									
50	2"	4-Φ19	125	4-Φ19	121	4-Φ19	120	12	100	43	99	228	140.5	65	50	4-7
65	2½"	4-Φ19	145	4-Φ19	140	4-Φ19	140	12	112	46	99	250	140.5	65	50	4-7
80	3"	8-Φ19	160	4-Φ19	152	8-Φ19	150	12	120	49	99	266	140.5	65	50	4-7
100	4"	8-Φ19	180	8-Φ19	191	8-Φ19	175	12	140	54	99	302	154	65 90	50 70	4-7 4-10
125	5"	8-Φ19	210	8-Φ19	216	8-Φ19	210	15	168	64	115	351	154	90	70	4-10
150	6"	8-Φ23	240	8-Φ23	241	8-Φ23	240	15	181	70	115	389	186	90	70	4-10
200	8"	8-Φ23	295	8-Φ23	298	8-Φ23	290	15	215	88	230	487	186	125	102	4-12

Pneumatic Actuator Operated

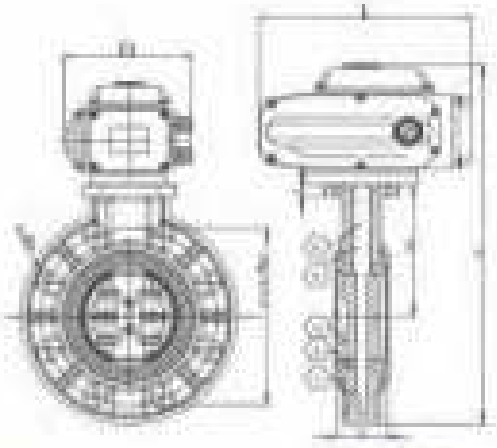




Dimensions

Size		DIN		ANSI 150		JIS 10K		T	H1	L	L1	H	C1	E	F	4-C
DN	NPS	n-Φx	P.C.D.ΦD1	n-Φx	P.C.D.ΦD1	n-Φx	P.C.D.ΦD1									
50	2"	4-Φ19	125	4-Φ19	121	4-Φ19	120	12	100	135.5	43	276.5	71	65	50	4-7
65	2½"	4-Φ19	145	4-Φ19	140	4-Φ19	140	12	112	162	46	300.5	80.5	65	50	4-7
80	3"	8-Φ19	160	4-Φ19	152	8-Φ19	150	12	120	162	49	325.5	80.5	65	50	4-7
100	4"	8-Φ19	180	8-Φ19	191	8-Φ19	175	12	140	207	54	378	95	65 90	50 70	4-7 4-10
125	5"	8-Φ19	210	8-Φ19	216	8-Φ19	210	15	168	237.5	64	432.5	106	90	70	4-10
150	6"	8-Φ23	240	8-Φ23	241	8-Φ23	240	15	181	271.5	70	483	123	90	70	4-10
200	8"	8-Φ23	295	8-Φ23	298	8-Φ23	290	15	215	328	88	585.5	137	125	102	4-12

Electric Actuator Operated



Dimensions

Size		DIN		ANSI 150		JIS 10K		T	H1	L	L1	H	C1	E	F	4-C
DN	NPS	n-Φx	P.C.D.ΦD1	n-Φx	P.C.D.ΦD1	n-Φx	P.C.D.ΦD1									
50	2"	4-Φ19	125	4-Φ19	121	4-Φ19	120	12	100	165	43	317.5	140.5	65	50	4-7
65	2½"	4-Φ19	145	4-Φ19	140	4-Φ19	140	12	112	165	46	329.5	140.5	65	50	4-7
80	3"	8-Φ19	160	4-Φ19	152	8-Φ19	150	12	120	165	49	355.5	140.5	65	50	4-7
100	4"	8-Φ19	180	8-Φ19	191	8-Φ19	175	12	140	211.5	54	422.5	154	65 90	50 70	4-7 4-10
125	5"	8-Φ19	210	8-Φ19	216	8-Φ19	210	15	168	211.5	64	465.5	154	90	70	4-10
150	6"	8-Φ23	240	8-Φ23	241	8-Φ23	240	15	181	259	70	527.5	188	90	70	4-10
200	8"	8-Φ23	295	8-Φ23	298	8-Φ23	290	15	215	259	88	594	188	125	102	4-12

Product Description

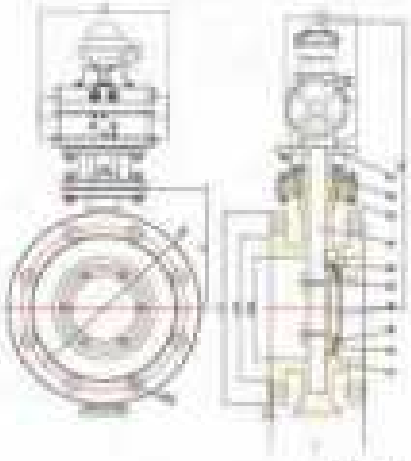
- Hard-seal butterfly valve is a kind of component used to realize the on-off and flow control of pipeline system.
- It has been widely used in many fields such as petroleum, chemical industry, metallurgy, and hydropower. In the known butterfly valve technology, the sealing structure is mostly a sealed structure,
  and the sealing material is rubber, PTFE, and the like. Due to structural limitations, it is not suitable for high temperature, high pressure, corrosion and wear resistance industries.
- The existing one of the more advanced butterfly valves is a three-eccentric metal hard-seal butterfly valve.
- The valve body and the valve seat are connected components, and the valve seat sealing surface layer is surfacing with temperature-resistant and corrosion-resistant alloy materials.
- The multi-layer soft stack seal is fixed on the valve plate.
- Compared with the traditional butterfly valve, this type of butterfly valve has high temperature resistance, easy operation,
  no friction when opening and closing, and the seal is increased when the torque of the transmission
- mechanism is increased during closing.
- The sealing performance and the advantages of prolonged service life.

Main Specification

Nominal Size	Operated Type	Work Pressure	Work Temperature	Disc/Body Material	Medium	Application	Connection Standard
DN50	Pneumatic Actuator	0.6-4.0Mpa	WCB	WCB	Water	Food	GB/T9115.1-2000
↓	Electric Actuator		-15~85℃	SS304	Steam	Medicine	GB/T9115.2-2000
	Manual Hand Lever		Stainless Steel	SS316	Oil	Chemical Industry	ASME B16.5
258	Worm Gear		-40℃~600℃		Acid Corrosion	Power Plant	ASME B 16.47
					Ect	Steel Mill	
						Industrial environmental protection	

FLOWX

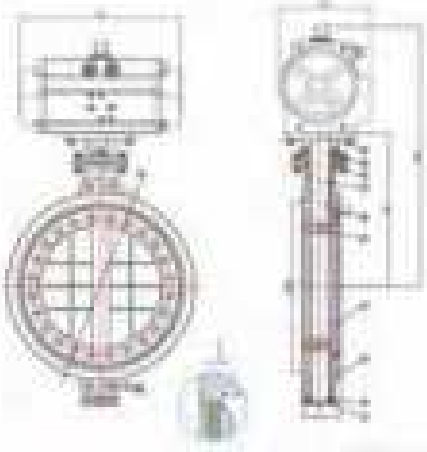
Pneumatic Actuator Operated



Dimensions

Size		SPRING RETURN				DOUBLE ACTING				L	D	D1	D2	f	Z	d	H
DN	NPS	H1	C	L1	WT (kg)	H1	C	L1	WT (kg)								
50	2"	374.5	271.5	106	DN	353	207	94.5	DN	108	155	125	102	2	4	18	160
65	2½"	402.5	271.5	123	DN	389.5	237.5	106	DN	112	185	145	122	2	8	18	175
80	3"	417.5	271.5	123	DN	404.5	237.5	106	DN	114	200	160	138	2	8	18	190
100	4"	452.5	329	137	DN	422.5	271.5	123	DN	127	220	180	162	2	8	18	195
125	5"	484.5	356	148	DN	472.5	329	137	DN	140	250	210	188	2	8	18	215
150	6"	517	429	164	DN	494.5	356	148	DN	140	285	240	212	2	8	22	225
200	8"	609	430	186.5	DN	590	429	164	DN	152	340	295	268	2	12	22	298
250	10"	666	482	204	DN	636	430	186.5	DN	165	405	350	320	2	12	26	328
300	12"	725	532	224	DN	703	482	204	DN	178	460	400	378	3	12	26	365
350	14"	812	662	266	DN	768	532	264	DN	190	520	460	428	3	16	26	408

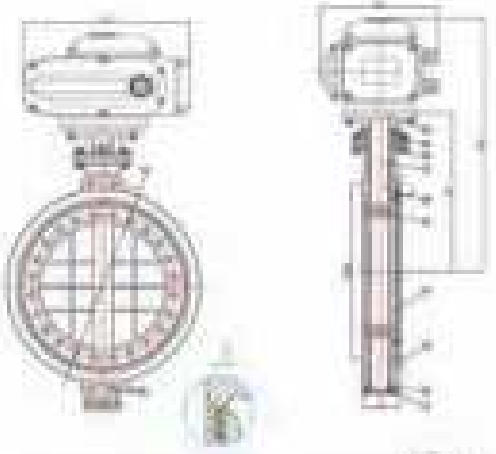
Pneumatic Actuator Operated



Dimensions

Size		PN16			PN25			DOUBLE ACTING				L	H
DN	NPS	D	Z	d	D	Z	d	H1	C	L1	WT (kg)		
50	2"	125	4	18	125	4	18	277	207	94.5	-	43	160
65	2½"	145	4	18	145	4	18	303.5	237.5	106	-	46	175
80	3"	160	4	18	160	4	18	318.5	237.5	106	-	49	190
100	4"	180	4	18	190	4	22	356.5	271.5	123	-	56	195
125	5"	210	4	18	220	4	26	396.5	329	137	-	64	215
150	6"	240	4	22	250	4	26	406.5	356	148	-	70	225
200	8"	295	4	22	310	4	26	504	429	164	-	71	298
250	10"	355	4	26	370	4	30	550	430	186.5	-	76	328
300	12"	410	4	26	430	4	30	617	482	204	-	83	365
350	14"	470	4	26	490	4	33	682	530	226	-	92	408

Electric Actuator Operated



Dimensions

unit: mm

Size		PN16			PN25			L	H	H5	L1	C	WT (KG)
DN	NPS	D	Z	d	D	Z	d						
50	2"	125	4	18	125	4	18	43	160	328.5	211.5	154	DN
65	2½"	145	4	18	145	4	18	46	175	378	259	186	DN
80	3"	160	4	18	160	4	18	49	190	393	259	186	DN
100	4"	180	4	18	190	4	22	56	195	393	259	186	DN
125	5"	210	4	18	220	4	26	64	215	418	259	186	DN
150	6"	240	4	22	250	4	26	70	225	428	259	186	DN
200	8"	295	4	22	310	4	26	71	298	501	259	186	DN
250	10"	355	4	26	370	4	30	76	328	557.5	283.5	193	DN
300	12"	410	4	26	430	4	30	83	365	594.5	283.5	193	DN
350	14"	470	4	26	490	4	33	92	408	637.5	283.5	193	DN

Technical Material List

APPLICABLE STANDARDS & TECHNICAL NOTES:			
DESIGN CODE	GB/T 12236	END STANDARD	HG 20592
INSPECTION&TEST	GB/T 13927	FACE TO FACE	GB/T 12221

NO.	PARTS NAEM	MATERIAL	QTY	NO.	PARTS NAEM	MATERIAL	QTY
1	BODY	DI/WCB/CF8/CF8M	1	6	SEAL	304+FLEXIBLE GRAPHITE	1
2	PRESSURE RING	304	1	7	STEM	304	1
3	SCREW	304	1	8	PACKING	FLEXIBLE GRAPHITE	8
4	DISC	DI/WCB/CF8/CF8M	1	9	PACKING GLAND	DI/WCB/CF8/CF8M	1
5	PIN	304	1	10	STENTS	DI/WCB/CF8/CF8M	1

TEST PRESSURE		
	SHELL	SEAL
HYDROSTATIC	24/37.5 kg/cm²	17.6/27.5 kg/cm²
AIR	—	—

TITLE: HARD SEAL TRIP ECCENTRIC BUTTERFLY VALVE			
SIZE	DN50-DN350	DWG NO.	5T0114000001-2

Product Description

- Triple eccentric butterfly valve can meet the requirements of high temp
  erature, high pressure and strong corrosion, high wear and other working conditions, with light weight, compact structure, low operating torque, etc, can replace the conventional gate valve, globe valve and ball
- valve under most conditions.
  High performance butterfly valve is a new type of butterfly valve designed based on the advantages of
- absorbing several different structural butterfly valves.
  The valve plate sealing surface of this butterfly valve is a ball arc body, and the sealing mechanism achieves a true dynamic seal through the system pressure, so it has excellent cutting performance and durability performance. Its small size, light weight, a wide range of manufacturing, easy maintenance.

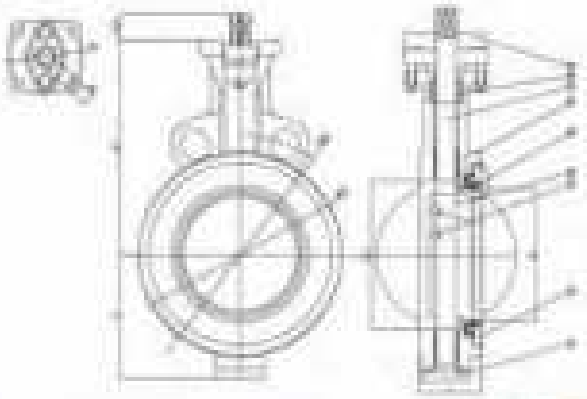
Features

- The sealing performance is good and the reliability of the system is improved.
- Small frictional resistance, open and close effort, flexibility.
- Long service life, can achieve repeated switching.
- High pressure and high temperature resistance, wide application range.

Main Specification

Nominal Size	Operated Type	Work Pressure	Work Temperature	Seat Material	Disc Material	Body Material	Medium	Application	Connection Standard
DN40 ↓ 350	Pneumatic Actuator Electric Actuator Manual Hand Lever Worm Gear	1.6-6.3Mpa	-19-425℃	RPTFE	SS304 SS316 SS316L	WCB Stainless Steel	Strong Acid Strong Alkali Strong Oxidant	Lithium Battery Desalination Coal Chemical Chemical Industry Rubber Papermaking Pharmacy	JB/T79.1 JB/T79.2 HG20615 ASME B16.5 ASME B 16.47

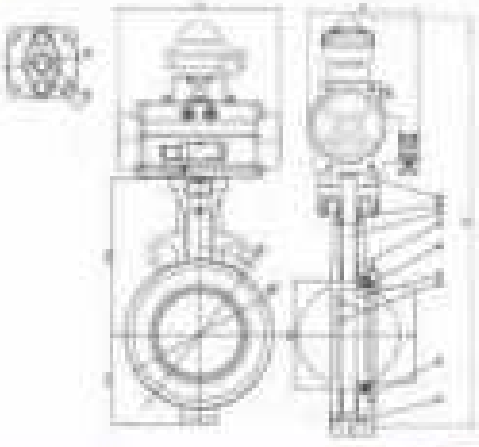
Handle Lever Operated



Dimensions

Size			Q2										
DN	NPS	10K	PN16	150LB	H1	H2	H3	L	D	D1	E	F	Q
50	2"	120	125	120.5	65	138	16	43	96	48	40	11	FDT
65	2½"	140	145	139.5	75	148	16	43	119	64	60	11	FDT
80	3"	150	160	152.5	80	168	18	46	132	82	76	11	FDT
100	4"	175	180	190.5	92	180	18	54	156	102	95	11	FDT
125	5"	210	210	216	115	202	21	56	188	122	115	14	FDT
150	6"	240	240	241.3	126	225	21	56	218	148	142	14	FD10
200	8"	290	295	298.5	165	265	25	64	284	197	189	22	FD10
250	10"	355	355	362	235	315	28	71	320	243	238	22	FD12
300	12"	432	410	400	256	342	32	78	381	295	282	27	FD12
350	14"	455	470	476	295	375	38	92	413	325	318	27	FD14

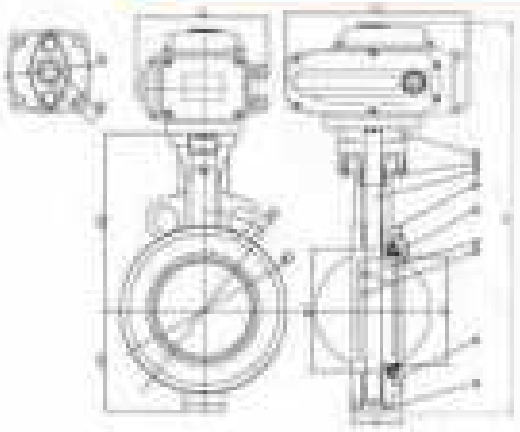
Pneumatic Actuator Operated



Dimensions

Size			Q2										
DN	NPS	10K	PN16	150LB	H1	H2	H	L	D	D1	E	F	Q
50	2"	120	125	120.5	65	138	16	43	96	48	40	11	FDT
65	2½"	140	145	139.5	75	148	16	43	119	64	60	11	FDT
80	3"	150	160	152.5	80	168	18	46	132	82	76	11	FDT
100	4"	175	180	190.5	92	180	18	54	156	102	95	11	FDT
125	5"	210	210	216	115	202	21	56	188	122	115	14	FDT
150	6"	240	240	241.5	126	225	21	56	218	148	142	14	FD10
200	8"	290	295	298.5	165	265	25	64	284	197	189	22	FD10
250	10"	355	355	362	235	315	28	71	320	243	238	22	FD12
300	12"	432	410	400	256	342	32	78	381	295	282	27	FD12
350	14"	455	470	476	295	375	38	92	413	325	318	27	FD14

Electric Actuator Operated



Dimensions

unit: mm

Size		D2			H1	H2	L	D	D1	E	F	G	H	L1	C
DN	NPS	10K	PN16	150LB											
50	2"	120	125	120.5	65	138	43	99	48	40	11	F07	340.5	162	140.5
65	2½"	140	145	139.5	75	148	43	119	64	50	11	F07	391.5	211.5	154
80	3"	150	160	152.5	80	168	46	132	82	76	11	F07	416.5	211.5	154
100	4"	175	180	190.5	92	180	54	156	102	95	11	F07	475	259	188
125	5"	210	210	216	115	202	54	188	122	115	14	F07	520	259	196
150	6"	240	240	241.5	120	225	56	218	148	142	14	F010	554	259	186
200	8"	290	295	298.5	165	265	64	264	197	189	22	F010	638	259	186
250	10"	355	355	362	235	315	71	320	243	238	22	F012	753	259	186
300	12"	402	410	400	258	342	78	381	295	292	27	F012	829.5	283.5	198
350	14"	453	470	476	299	375	92	413	325	318	27	F014	899.5	283.5	198

Technical Material List

APPLICABLE STANDARDS & TECHNICAL NOTES			
DESIGN CODE	API609	END STANDARD	ANSI 150#/JIS 10K
INSPECTION&TEST	API598	FACE TO FACE	API609

NO.	PARTS NAME	MATERIAL	QTY.	NO.	PARTS NAME	MATERIAL	QTY.
1	LOCATING PLUG	WCB/CF8/CF8M	1	6	BEARING ASSEMBLY	304+PTFE	1
2	SEAT RETAINER PLATE	WCB/CF8/CF8M	1	7	STEM	17-4PH/410S	1
3	TAPER PINS	SS304	1	8	STEM SEAL	PTFE	1
4	DISC	SS304/306	1	9	BODY	WCB/CF8/CF8M	1
5	SEAT	PTFE	1				

TEST PRESSURE		
	SHELL	SEAL
HYDROSTATIC	24/15 kg/cm²	17.6/11 kg/cm²
AIR	—	—

TITLE: HIGH PERFORMANCE BUTTERFLY VALVE			
SIZE	DN50-DN450	DWG NO.	FTD114000002-1

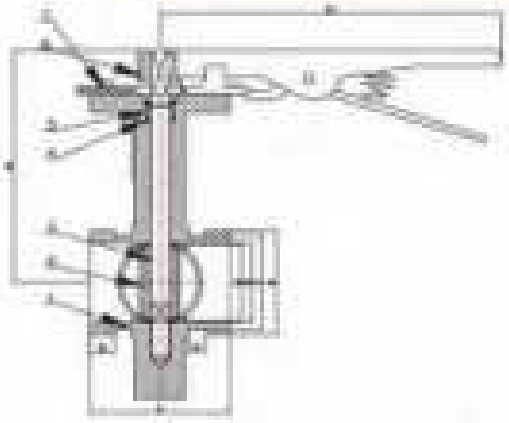
Product Description

- Fire safety butterfly valve adopts the midline design.
- The main structure of the valve is composed of valve body, valve disc, valve seat, valve stem and transmission operating mechanism.
- The valve seat adopts detachable structure, transmission mechanism sub-handle, worm gear and worm Three types of signal and signal, suitable for fire sprinkler system water pipes, used for throttling or regulating flow, in which the signal valve is set on the switch position of the worm and is suitable for fire sprinkler systems.
- The valve seat adopts detaching design to facilitate on-site maintenance, and adopts the whole basin design, which is not easily blocked by impurities. The joint "O" sealing lines at both ends make the pipeline installation without the need of additional gaskets to maintain a reliable seal, and can be used according to different Requires different materials.
- The axle pin adopts the U.S. patented design of the withdrawal and withdrawal pin structure, which can tightly connect the valve flap shaft together without loosening and weakening the strength of the shaft and having good interchangeability.
- The operation structure is flexible and can be used to configure different rotation devices such as handles, worm gears and worm gears. The worm and worm gear can also be equipped with signal devices.

Main Specification

Nominal Size	Operated Type	Work Pressure	Work Temperature	Seat/Seal Material	Disc Material	Body Material	Medium	Application	Connection Standard
DN50	Pneumatic Actuator	1.0Mpa	-10℃-80℃	PTFE	EPDM	Ductile Iron	Water	Water Drainage	PN10/PN16
↓	Electric Actuator	1.6Mpa		EPDM	PTFE	Cast Steel	Oil	Building Fire	ANSI150
↓	Manual Hand Lever	2.5Mpa					Gas		DIN16
300	Worm Gear								JIS10K/16K

Manual Handle Lever Operated



Dimensions

unit: mm

Size DN	Size NPS	A	B	C	D	E	F	L	H	L1	WT (Kg)
50	2"	48.8	50	60.3	67	16	11	90	145	220	–
65	2½"	59.8	61	69.1	73	16	11	97	151.5	220	–
80	3"	79.1	78	88.9	97	16	11	97	157.5	220	–
100	4"	99	101	114.3	122.5	16	11	116	178	260	–
125	5"	123.8	127	137	141.3	16	11	134	199.5	260	–
150	6"	146.8	150	165	175	16	11	134	211	260	–
200	8"	196.8	202	219	232	20.5	11	148	–	–	–
250	10"	246.8	253	273	286	20.5	11	160	–	–	–
300	12"	296.8	303	323.9	336.5	20.5	11	166	–	–	–

Pneumatic Actuator Operated

Dimensions

unit: mm

Size DN	Size NPS	A	B	C	D	E	F	L	H	L1	WT (Kg)
50	2"	48.8	50	60.3	67	16	11	90	208.5	139.5	–
65	2½"	59.8	61	69.1	73	16	11	97	226	162	–
80	3"	79.1	78	88.9	97	16	11	97	232	162	–
100	4"	99	101	114.3	122.5	16	11	116	368	207	–
125	5"	123.8	127	137	141.3	16	11	134	369	237.5	–
150	6"	146.8	150	165	175	16	11	134	334.5	271.5	–
200	8"	196.8	202	219	232	20.5	11	148	377	328	–
250	10"	246.8	253	273	286	20.5	11	160	433.5	366	–
300	12"	296.8	303	323.9	336.5	20.5	11	166	481	428	–

Electric Actuator Operated

Dimensions

Unit: mm

Size DN	NPS	A	B	C	D	E	F	L	H	L1	WT (kg)
50	2"	48.8	50	60.3	67	16	11	90	256.5	165	--
65	2½"	59.8	61	69.1	76	16	11	97	268	165	--
80	3"	79.1	78	88.9	97	16	11	97	268	165	--
100	4"	99	101	114.3	122.5	16	11	116	316.5	211.5	--
125	5"	121.8	127	137	141.3	16	11	134	340	211.5	--
150	6"	146.8	150	165	175	16	11	134	388	239	--
200	8"	196.8	202	219	232	20.5	11	148	408.4	259	--
250	10"	246.8	253	276	286	20.5	11	160	453	259	--
300	12"	296.8	303	323.9	335.5	20.5	11	166	467.5	283.5	--

Technical Material List

APPLICABLE STANDARDS & TECHNICAL NOTES			
DESIGN CODE	API609	END STANDARD	ANSI 150#/JIS 10K
INSPECTION&TEST	API598	FACE TO FACE	API609

NO.	PARTS NAME	MATERIAL	QTY	NO.	PARTS NAME	MATERIAL	QTY
1	BODY	DI/WCB/CF8/CF8M	1	6	LEVER	MALLEBLE IRON	1
2	DISC	WCB/DI+NYLON/ CF8/CF8M	1	7	INDICATOR	CARBON STEEL	1
3	SHAFT	1541D	1	8	HANDWHEEL	EPDM	1
4	BUSHING	PTFE	1	9	GEAR	CAST IRON	1
5	X-RING	EPDM	1				

TEST PRESSURE		
	SHELL	SEAL
HYDROSTATIC	24/15 kg/cm²	17.6/11 kg/cm²
AIR	—	—

TITLE: WAFER BUTTERFLEY VALVE			
SIZE	DN50-DN300	DWG NO.	FD11-6000502-1

Product Description

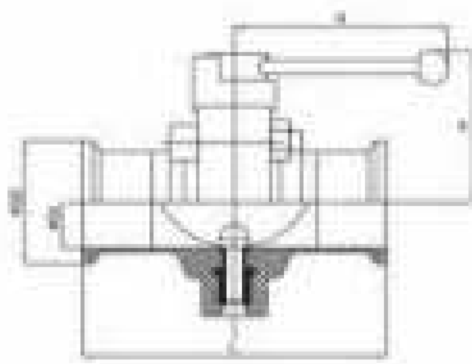
- Sanitary Butterfly Valve is widely used in beer, beverage, dairy, juice, pharmacy and bioengineering.
- High performanace for Sealed, long service life and internal and external high-grade polishing equipment to achieve surface precision
- Working pressure: 0.6Mpa, 1.0Mpa, 1.6Mpa
- Working temperature: -10°C+100°C
- Applicable medium: liquid, gas, oil, all kinds of highly corrosive chemical media
- Applications: Food, Beverage, Pharmaceutical, Dairy, Beer and Fine Chemicals

Main Specification

Nominal Size	Operated Type	Connection Mode	Work Pressure	Work Temperature	Seal Material	Disc/Body Material	Medium	Application	Connection Standard
DN15	Pneumatic Actuator	Weld	0.6Mpa	10°C+100°C	EPDM	SUS304	Water	Food	ISO
↓	Electric Actuator	Socket	1.0Mpa		NBR	SUS316L	Gas	Beverage	DIN
↓	Manual Hand Lever	Threaded	1.6Mpa		PTFE		Oil	Pharmacy	IDF
150	Worm Gear	Clamped						Milk	SMS
		Wafer						Beer	3A
								Fine Chemicals	

Medium: Various Highly Corrosive Chemical Media

Manual Handle Lever Operated

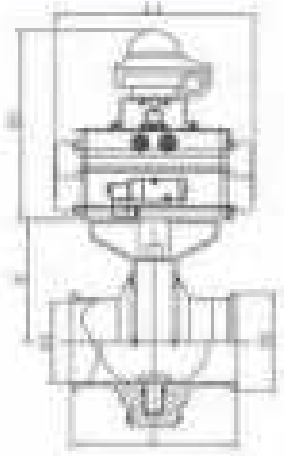


Dimensions

Unit: mm

Size DN	Size NPS	D1	D2	A	L	H
50	½"	16.1	50.5	125	66	68
65	1"	22.4	50.5	125	66	68
80	1¼"	28.8	50.5	125	66	68
100	1½"	35.1	50.5	125	66	72
125	2"	47.8	64	135	72	79
150	2½"	59.5	77.5	135	76	88
100	3"	72.2	91	135	76	96
150	3½"	85	106	160	84	107
200	4"	97.6	119	160	90	110
250	6"	154	183	230	132	147

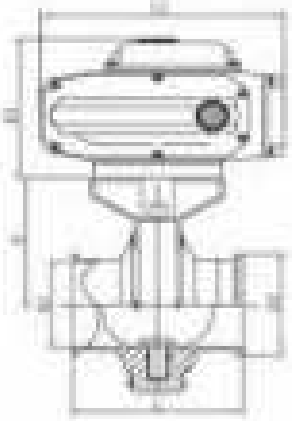
Pneumatic Actuator Operated



Dimensions

Size		D1	D2	L	H	SINGLE		DOUBLE	
DN	NPS					L1	H1	L1	H1
19	¾"	16.1	50.5	66	69	162	193.5	139.5	182.5
25	1"	22.4	50.5	66	69	162	193.5	139.5	182.5
32	1¼"	28.8	50.5	66	69	162	193.5	139.5	182.5
38	1½"	35.1	50.5	66	78	162	193.5	139.5	182.5
45	2"	42	64	70	81	162	193.5	139.5	182.5
51	2½"	47.8	64	72	85	162	193.5	139.5	182.5
57	3"	53	77.5	76	88	207	210	162	193.5
63.5	2½"	59.5	77.5	76	92	207	210	162	193.5
76	4"	72.5	91	76	99	207	210	162	193.5
89	6"	85	106	84	105	237.5	221.5	207	210

Electric Actuator Operated



Dimensions

Size		D1	D2	L	H	L1	H1
DN	NPS						
19	¾"	16.1	50.5	66	69	165	127.5
25	1"	22.4	50.5	66	69	165	127.5
32	1¼"	28.8	50.5	66	69	165	127.5
38	1½"	35.1	50.5	66	78	165	127.5
45	2"	42	64	70	81	165	127.5
51	2½"	47.8	64	72	85	165	127.5
57	3"	53	77.5	76	88	165	127.5
63.5	2½"	59.5	77.5	76	92	165	127.5
76	4"	72.2	91	76	99	165	127.5
89	6"	85	106	84	105	211.5	145.5

FP Series Pneumatic Actuator

- Rack and pinion actuators available in double acting and spring return/cals
- Standard units have anodized aluminum bodies with polyster coated end caps internal bidirectional travel stops
- Seacorr coating for harsh enviroments
- SIL 3 capable
- Integral porting
- NAMUR accessory compatible

Main Specification

Torque size	Double Acting DA52-DA270
	Single Return SR52-SR270
Pressure Range	40-140PSI/2.8-10bar
Media	Dry Compressed Air/Inlet Gas
Temperature Range	Standard to 93℃
	Low
	High
	Extreme High
	Performance

FLX series Electric Actuator

- The Series is a low profile,compact,powerful actuator with customer-friendly features
- Manual detachable handle lever
- Local high visibility dome position indicator
- Digital interface available
- Optional microprocessor based moudulating control

Main Specification

Type	ON-OFF Type,4-20ma intelligent regulated type
Voltage	AC 24V 224V 230V 380V
	DC 12V 24V
Standard Enclosure	NEMA Type 4,4x and NEMA 7

FLX-A Series Electric Pneumatic Positioner

- Precision digital control
- Zero bleed design
- Compatible with rotary or linear actuators for single and double acting applicatio
- Various housing options available
- Precise,microprocessor driven flow control and advanced communication
- Non-contacting position sensor technology
- Integral volume booster
- Connective and preventative maintenance self-diagnostic checks

FLX-2 Series,Air Filter Regulator, Metal Design

- Space-saving design with filter and regulator in a single unitGood regulating
- Characteristics with minimal hysteresis
- Two pressure guage connectors for flexible installation
- With manual,semi-automatic or fully automatic condensate draing
- Setting values are secured by locking the rostry knob

FLX-2N Series Limit Swtich Valve Status Monitors

- Discrete staus monitor for quarter turn rotary actuators
- NEMA4,4X and IP68,IP67 ingress protection
- High visibility done position indicator
- Up to 8SPDT switches or non-contacting proximity switches
- Switch pre-wired to internal terminal block

FLX-2V Series High Flow 2/5Way,2/3Way Solenoid Valves

- Weatherproof NEMA4,4X and explosion proof housings available
- Flying leads to DIN Connectors
- Single or dual Coil
- 2/5 or 2/3 Operation
- NAMUR mounted
- High flow up to 1.4Cv
- Intrinsically safe versions available

Precautions for Trouble-free Operation of FLOWX Butterfly Valves

Valve Selection

- Ensure to select a valve with design specifications which meet the fluid type and the pressure and temperature conditions required.
- Lubricants are applied to discs, rubber seats and PTFE seats as standard to protect their surfaces.
- Oil-free treated types are available as option. Contact FLOWX Corporation or its local distributors for the details.
- Contact FLOWX Corporation or its local distributors for service with pulverulent bodies.

Storage and Handling

- Valves must be stored in dry, clean and corrosion-free environment with no direct exposure to the sun, leaving valves open by 10° for prevention of permanent distortion of resilient seats. Refrain from overloading valves and their actuators, such as storing them in piles or placing other objects on them.

Mounting on Pipelines

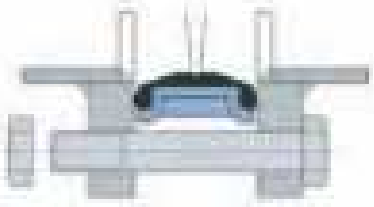
- Valves must be mounted on flanges only after flanges have been welded to pipes and cooled down to the atmospherical temperature. Otherwise, welding heat may affect the quality of resilient seats.
- Edges of welded flanges must be machined for smooth surface finish so that they may not damage resilient seats during valve mounting. Flange faces must be free from damage or deformation, and be cleaned to remove rust or any other foreign objects so that there will be no concern of external leakage through valve and flange connections. Gaskets are not required for mounting FLOWX DJ series butterfly valves.
- Clean flanges and pipe bores to thoroughly remove welding spatters, scales and other foreign objects which may have been left inside.
- Accurate centering of each couple of upstream and downstream pipes is essential for trouble-free operation of valves mounted between them. Incorrect centering shown in Fig. 1 must be by all means avoided.
- For valve mounting, set jack bolts under the pipes for flat support at the same height, and adjust the flange-to-flange distance so that some 8 mm to 10 mm room may be allowed beside the both sides of the valve body.
- Remember that valves here must be left open only by 10° from the fully closed position.
- Set two bolts into the lower mounting guides of a valve and mount it carefully so that flange faces may not damage resilient seats. (Fig. 2)
- Then set another two bolts into the upper mounting guides of a valve, ensuring the correct centering between pipes and the valve.
- Totally open the valve to check to see if there is no disturbing contact between the valve disc and the flanges.
- Remove the jack bolts, set all bolts around the valve body and tighten them alternately and diagonally till the flanges contact the valve body (Fig. 3 and 4).

Fig.1

Fig.2

Fig.3

Fig.4



- For mounting actuated valves, provide valve supports to prevent bending of valve necks and reduce valve and pipe vibration.
- Don't step on valve necks or valve handwheels.
- Don't mount valves of DN350 and larger with their operations upside down.
- Don't mount butterfly valves directly to check valves or pumps, which may cause damage to them by the disc contacts.
- Don't mount valves to downstream sides of elbows, reducers or regulating valves where fluid velocity changes. It is recommended to install valves approximately 10 times of the valve nominal sizes away from them for such cases.
- Mount valves taking consideration of the effects which discs are given by fluid velocity or pressure shages in the pipings. Refer to the illustrations. (Fig.4)
- Contact FLOWX Corporation or its local distributors for the details.

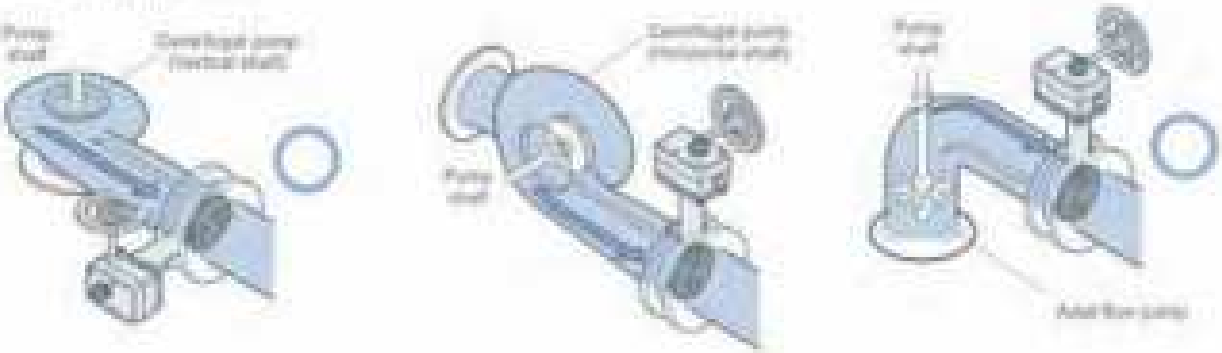
Valve Operation

- Valves equipped with manual operators such as levers, and handles of gears must be ONLY MANUALLY operated. Application of an excessive external force to operate valves may result in malfunction of valves and their operators.
- Ensure to fully open valves before a hop test of the piping system is carried out with line pressure higher than the nominal pressure of tested valves. Never use closed valves in place of blind flanges.
- When valves need to be dismantled from pipes for maintenance or any other causes, ensure to thoroughly relieve the line pressure beforehand.
- Loosening piping bolts under line pressure causes a danger. Any residual fluid left inside the pipeline must be completely drained.
- Users should contact FLOWX Corporation or its local distributors for technical advice, when valves should be continuously pressurized while left open by 30° or less.
- Don't use position indicators to operate valves, or overload position indicators. This may cause damage to indicators.
- Ensure to use blind flanges when butterfly valves are mounted at the end of pipelines.
- Standard actuators are referenced in this catalog for actuated valve operation. Contact FLOWX Corporation or its local distributors for mounting optional actuators.
- Contact FLOWX Corporation for service at hopper or pump outlets.
- Avoid touching gear operators and actuator stopper bolts accidentally.
- It is recommended to perform periodical inspection for:
  - Making sure of valve opening degree
  - Checking loosened bolts and leakage at each connection
  - Checking vibration and noise
- Refer to instruction manual for other precautions. Also refer to actuator catalogs and instruction manuals for actuated valves.

Fig.5

- Mounting to bent pipe

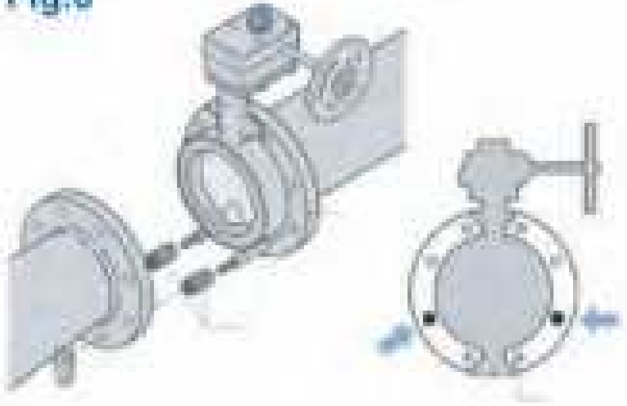
- Mounting to pump outlet



Note:

- Centering with "centering sleeves" is required for the valves coupled with them for accurate centering for sizes of 80mm, 125mm and 200mm (XJ series).(Fig.6)

Fig.6



Disclaimer

- [illegible]
- [illegible]
- [illegible]

⚠ WARNING

- [illegible]

Instruction of electric Actuators

For Your Safety

[illegible]

Warning

- This product is not of explosion-proof. Do not use it in the environment with flammable gas (gasoline etc.) or corrosive gas.
- Do not dismantle the actuator from the valve during power operation.
- Do not do wiring work when power is being supplied.

Working Caution

- Do not drop the product or give a shock to the product,for it may cause defects to the product.
- Please do not connect in the rain or water splash in the environment.

General

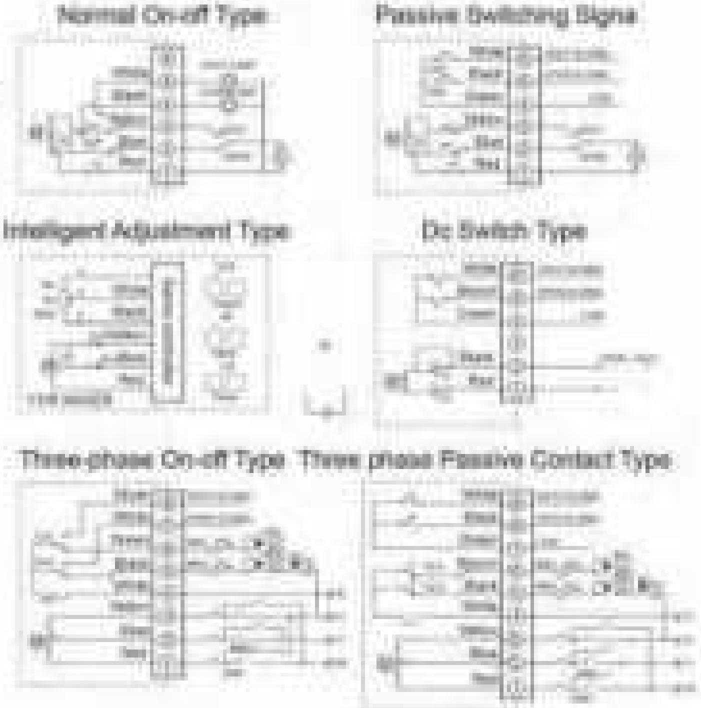
- This serial product is a high performance quarter-turn rotatype electric valve actuator for on/off and intermediate position service.

Feature

- Compact and light
- Manual operation by crank handle available
- Thermal protection from motor burn-out
- IP67 water proof to IP 67
- ISO5211 mounting

Wiring Diagram

- Note: This wiring diagram is only for reference. Please follow the diagram adhere on the product.



⚠ CAUTION

Pressure-temperature ratings and other performance data published in this catalog have been developed from our design calculation, in-house testing, field reports provided by our customers and/or published official standards or specifications. They are good only to cover typical applications as a general guideline to users of KITZ products introduced in this catalog.

For any specific application, users are kindly requested to contact KITZ Corporation for technical advice, or to carry out their own study and evaluation for proving suitability of these products to such an application. Failure to follow this request could result in property damage and/or personal injury, for which we shall not be liable.

While this catalog has been compiled with the utmost care, we assume no responsibility for errors, impropriety or inadequacy. Any information provided in this catalog is subject to from-time-to-time change without notice for error rectification, product discontinuation, design modification, new product introduction or any other cause that KITZ Corporation considers necessary. This edition cancels all previous issues.

Read instruction manual carefully before use.

⚠ NOTICE

If any products designated as strategic material in the Foreign Exchange and Foreign Trade Law, Cabinet Order Concerning Control of Export Trade, Cabinet order Concerning Control of Foreign Exchange and other related laws and ordinances ("Foreign Exchange Laws") are exported to any foreign country or countries, an export license issued by the Japanese Government will be required under the Foreign Exchange Laws.

Further, there may be cases where an export license issued by the government of the United States or other country will be required under the applicable export-related laws and ordinances in such relevant countries.

The contract shall become effective subject to that a relevant export license is obtained from the Japanese Government.

BUTTERFLY VALVE

WORLD WIDE VALVE SUPPLIER AROUND YOU

• ITALY FLOWX VALVE S.R.L.

Tel: +39 06 5216 2443

E-mail: it@flowxvalve.com

• Shanghai Flowx Valve Co.,Ltd

Zip Code: 200245

Tel: 021 5415 0349

E-mail: sales@flowxvalve.com

• Beijing Branch

Zip Code: 100020

Tel: 182 2149 6018

E-mail: jianing.hou@flowxvalve.com

• Guangdong Branch

Tel: 0769 2208 2205

Fax: 0769 2332 1876

E-mail: yufeng.chen@flowxvalve.com

• Shandong Branch

Tel: 139 1732 1517

E-mail: chun.zhou@flowxvalve.com

• Henan Branch

Tel: 177 3720 1280

E-mail: udong.hou@flowxvalve.com

Technical Service Hotline: 021-58560269

After Sales Service Email: lei.ni@flowxvalve.com

www.flowxvalve.com

Company Website

Flowx Valve Online Shops Wechat