

# WESDOM



## WESDOM GROUP

集团总部：中国·郑州华南城中原电商大厦  
分工厂：上海·天津·河北·山东·温州·连云港  
驻外分公司：非洲·坦桑尼亚·肯尼亚

国际贸易部：+86-13203812911  
国内贸易部：+86-13849013722

坦桑尼亚：+255744222807  
+255744222808

赞比亚：+260972377777  
+260963767287

肯尼亚：+254780021428

www.wsd-valve.com  
www.hawsd.com

Group headquarters: Central Plains E-Commerce Buliding, Zhengzhou South City, China  
Branch Factory: Shanghai, Tianjin, Hebei, Shandong, Wenzhou, lianyungang  
Branch Company in Overseas: Tanzania, Kenya in Africa

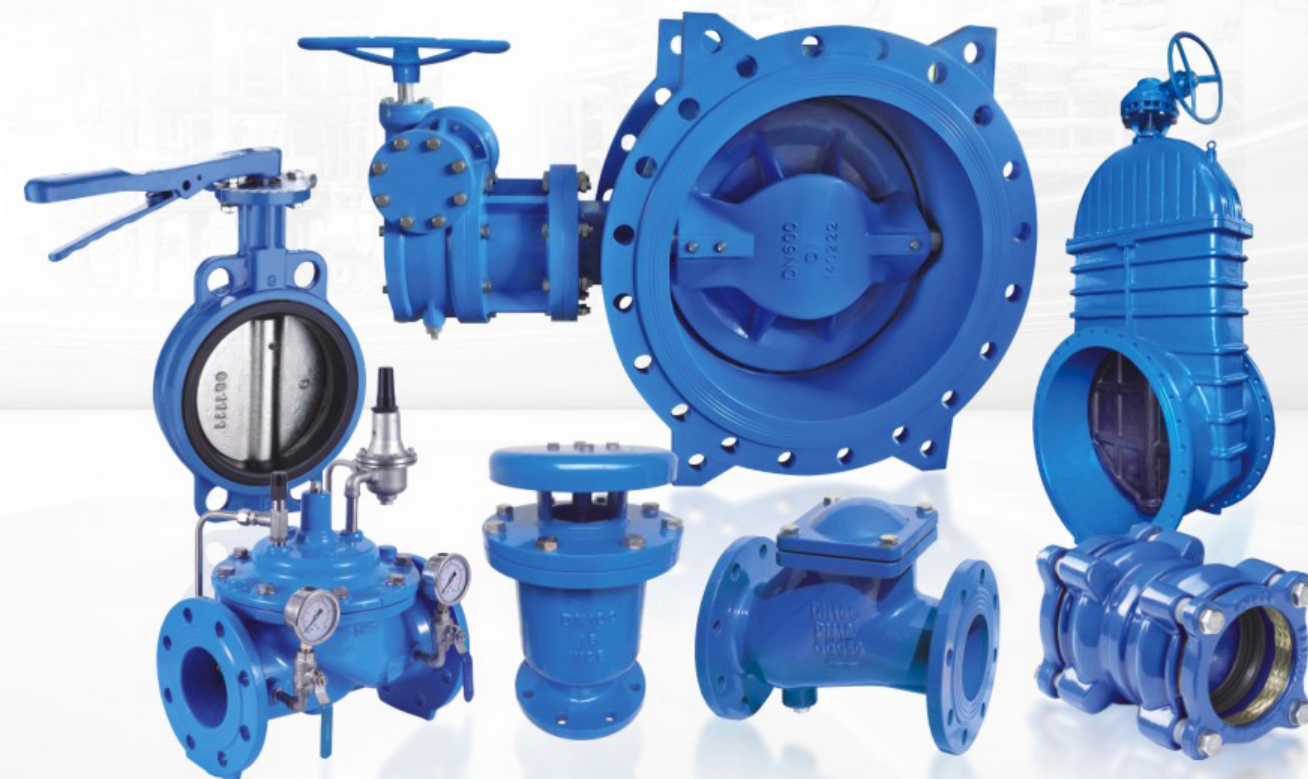
International Trading Department: +86-013203812911  
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P.O Box 3922, mikocheni B, Dar Es Salaam, Tanzania ✉ Weisidunvalve2015@gmail.com

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## Valve & Pipe Fittings for Water System

## WESDOM GROUP



# WESDOM GROUP

## Enterprise Social Responsibility

WESDOM are not only concerned about products, services and solutions.

**WESDOM promise to implement sustainable development and benefit society with energy-saving and environmental protection.**

**Our Purpose:** People-Oriented, Hard Work, Never forget the original intention, Innovation and forge ahead

**Our Mission:** To be a high-quality supplier of fluid control systems and plan maker; To contribute our wisdom and strength to the development of the cutting-edge technology of fluid control systems.

**Our Vision:** Explore the internal innovation spirit and creativity, pursuit, innovation and continuous improvement. Use wisdom, foresight and hard work to make "WESDOM" a world-renowned brand; Make the group company grow into a respectable "Four Satisfaction" enterprise:

**Customer Satisfaction:** Use high-quality products and refined services to add value to customers;

**Employee Satisfaction:** People-oriented, build a platform for all employees to realize their dreams, everyone is the CEO;

**Partner Satisfaction:** Mutual promotion, improve, mutual benefit and win-win;

**Shareholder Satisfaction:** Enable the company to develop and grow, and return profits.

**Our Values:** Create differentiated value-added services for customers, let everyone in the company has a sense of accomplishment.





# WESDOM GROUP

## Development History



## 2010

WESDOM was established

In December 2010, WESDOM was registered with a registered capital of 5 million yuan;

June 2013, WESDOM passed ISO and other international certifications;

## 2015

WESDOM established the first overseas branch

In June 2014, TIANJIN WESDOM VALVE MANUFACTURING CO.,LTD. was established in Tianjin, where the production of butterfly valves is concentrated;

## 2016

WESDOM products are exported to overseas regions and markets

In July 2015, the first overseas branch company WEISIDUN MATERIAL SOLUTION COMPANY was established in the beautiful African continent –Tanzania, and WESDOM began to expand into the international market;

In December 2015, WESDOM established a special foreign trade import and export company in Zhengzhou, the hinterland of the Central Plains HENAN WEISIDUN IMPORT AND EXPORT TRADE CO.,LTD., to make up for the domestic shortcomings of entering the international market;

In 2016, WESDOM brand products have been exported to Tanzania, Zambia, Egypt, Turkey, Pakistan, Thailand, Indonesia, Vietnam, the Philippines, Saudi Arabia, Mexico and other countries and regions;

In 2017, the company carried out production, procurement adjustments and layouts, expanded product series, initially formed a production and procurement system for water series products (control and connection systems), and established a procurement system for major production clusters across the south and north. ;

## 2018

Zambia branch was established, and the group company expanded its measurement products series

In January 2018, the second exclusive import and export company was established—HENAN WESDOM FLOW CONTROL CO.,LTD. In August of the same year, the second overseas branch company –WESDOM VALVES AND FITTINGS COMPANY LIMITED was established in Zambia, Africa;

In 2020, under the influence of the unfavorable factors of the domestic and foreign epidemic situation, the company has achieved the goal of breaking 100 million yuan in addition to the continuous growth of sales.

## 2019

WESDOM launched a series of plastic materials

In 2018, the series of measurement products (water meters, flow meters) were expanded, and the supply chain system was further enriched and improved;

In April 2021, the Kenya branch WESDOM VALVES AND FITTINGS(K) CO LIMITED was established and operated well, its products occupy the African market successfully.

## 2020

WESDOM sales exceeded 100 million yuan

In 2019, a series of plastic material products were launched; the company's valves and pipe fittings passed the CE certification; WESDOM overall sales performance exceeded 90 million in the same year;

To be continued...

## 2021

Kenya branch is established, WESDOM products occupy the African market

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# WESDOM GROUP

## Company Introduction

WESDOM Group specializes in pipeline fluid systems: R&D, production and sales of valves, pipe fittings, water meters, flow meters, etc. The products cover cast iron, cast steel, stainless steel, copper, plastics and other materials, which are widely used in hydropower stations, heat, buildings, Water supply and drainage, petroleum, chemical industry, electric power, medical and other fields.

In recent years, WESDOM Group has actively embraced the era of Internet of Everything, committed to IoT terminal control and artificial intelligence design, big data mining and development, and promoted smart hardware to move towards big data center and wisdom with excellent market foresight and technological innovation. The smart cities, smart heating, smart water and other fields are in progress.

In the early stage, the Internet of Things smart valves and smart water meters were developed to promote and apply smart control systems such as municipal heating and municipal water supply.

In terms of quality control, we have strict control procedures. From the raw materials entering the factory to the final product leaving the factory, after 24 quality inspection passes, each pass must ensure that the product quality is 100% qualified before it can flow into the next process, thus ensuring that the qualified rate of the finished products. WESDOM products can well meet the Chinese standard like GB, JB, HB; American standard like API, ASME, AWWA; British and EU standards like BS, EN, ISO; German standard DIN; Japanese standard JIS; Russian standard GOST and other standards.



## Foreign Branch



WEISIDUN MATERIAL SOLUTION COMPANY  
48A, INDUSTRIAL WAY ROAD, MIKOCHENI B, DAR ES SALAAM TANZANIA



WESDOM VALVES AND FITTINGS COMPANY LIMITED  
PLOT NO. 1901/08, KALUNGU CRESCENT, NORTHMEAD, LUSAKA, ZAMBIA  
GIBSON MENG +260 972 377 777



WESDOM VALVES AND FITTINGS(K) CO LIMITED  
Nairobi, Kenya

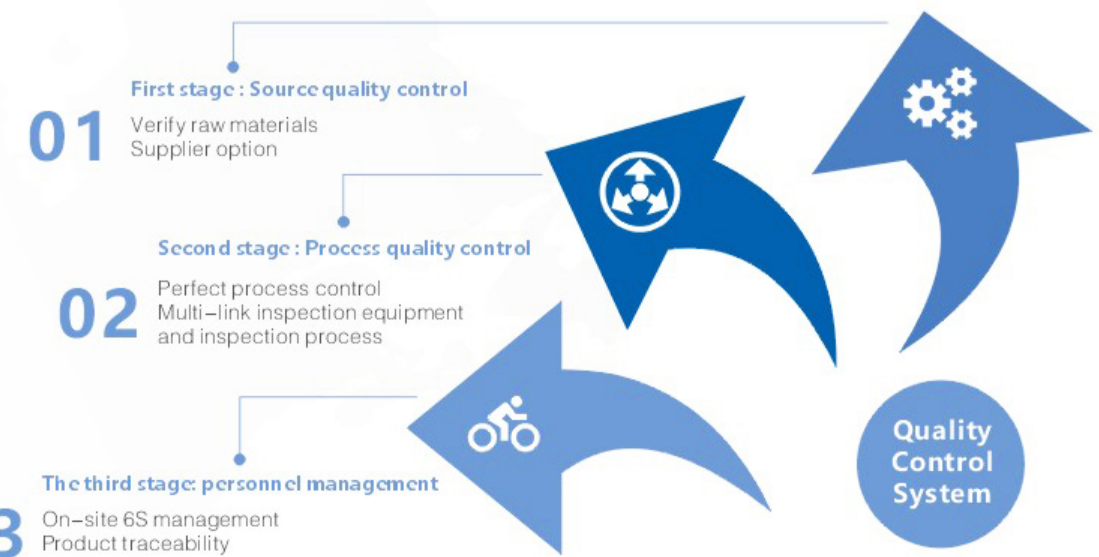
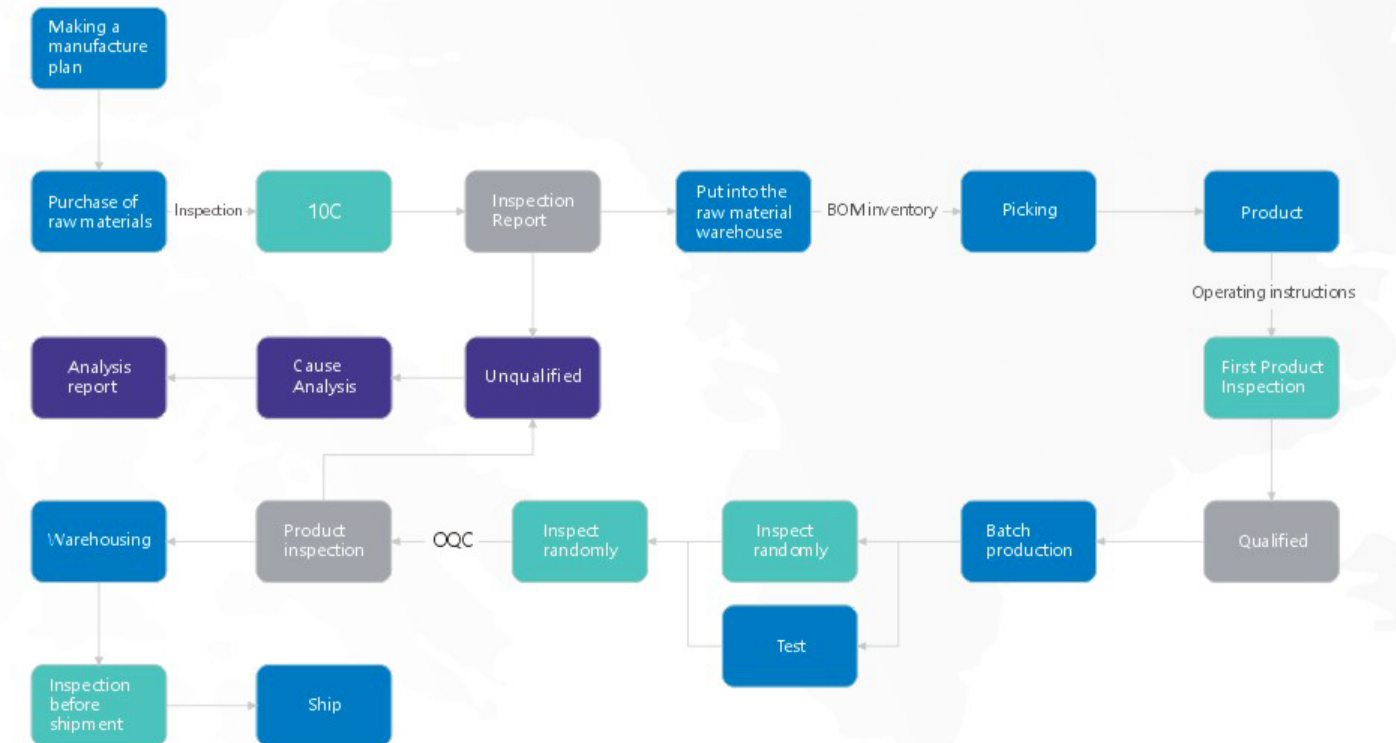


# WESDOM GROUP

## Company Qualification



## Product Quality Control Process





# WESDOM GROUP

## Application Field



### Power Generation

- Water and electricity
- Flue gas desulfurization system
- Flue gas desulfurization system
- Cooling water system
- Steam System
- Waste incineration power generation
- Renewable energy



### Steel

Water engineering valves and air valves are used to control the gases in the steel production



### Mining

- Acid leaching solvent extraction
- Mud transmission
- Cooling System



### Chemical Industry

- Chemical production
- Distribution system
- Surface treatment
- Biofuels



### Boats and Ships

- Cargo loading
- Dredging system
- Cooling water system
- Inert gas
- Hull valve
- Ballast system
- Compressed gas



### Building

- Water supply and drainage
- Heating ventilation and air conditioning

## Service Project



### Our Main business

Water supply/Sewage/Firefighting/Gas/Industry



CHINA CIVIL ENGINEERING & CONSTRUCTION CORPORATION(CCECC)



LAKE VICTORIA WATER SUPPLY AND SANITATION PROJECT P.O.Box 317, MWANZA C/O CHINA CIVIL ENGINEERING CONSTRUCTION

CORPORATION P.O.Box 4083, DAR ES SALAAM, TANZANIA

### STECOL CORPORATION

IFB/ ZAWA/ ZUWSP/01/CW-01/ PACKAGE

1. PROJECT NAME: ZANZIBAR URBAN WATER AND SANITATION PROJECT (ZUWSP) PACKAGE

2. Construction of Scheme Works Infrastructure for Water Supply, for Zanzibar, Tanzania.





• **01 Butterfly Valve Series**

• **17 Resilient Soft Seated Gate Valve Series**

• **35 Hydraulic Control Valve Series**

• **45 Check valve series**

• **55 Air Release Valve Series**

• **59 Strainers & Pipe Fittings**



> **Butterfly Valve Series**

- Wafer butterfly valve
- Lug butterfly valve
- Middle line to clamp butterfly valve
- Flange butterfly valve
- Double flange butterfly valve
- Double eccentric flange butterfly valve
- U type butterfly valve
- Double flange electric soft seal butterfly valve
- Anti-knot dew butterfly valve
- Double flange electric soft seal butterfly valve



### SAFETY

The reliability of top seal has been enhanced by using the double sealing of "O" ring and "V" rings. The "O" ring is located between the stem and the body to ensure the first sealing performance. The second seal is combined by V-shaped seal rings which achieve sealing requirements by the extrusion of the gland.

There is yoke between the body and operator. Once the leakage occurs in the top, the valves can be repaired without taking apart the gear-boxes or actuators. In this case, we just need to tighten the bolts of the gland, or remove the gland and add new "V" ring, the problem can be solved.

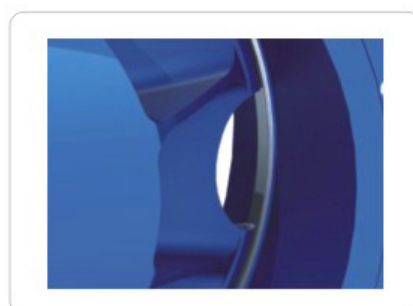
After the valves pass the test, the cylindrical pin is punched between the yoke and top flange to fix the position. This ensures the stability of the quality.



The disc is fixed with taper pins, the taper pins were fixed on the disc with shim and bolts. This effectively prevents the taper pin from loosening, and ensures that the connection of the disc and the stem was more stable.



The body is sealed by stainless steel body seat and rubber sealing ring of the disc. The high hardness and good resistance of attrition of the stainless steel seat ensure the long service life of the valves.



### Environmental-friendly

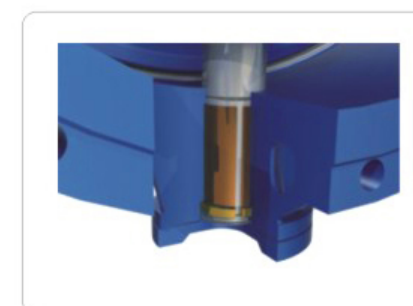
The rubber sealing ring of the disc is fixed in the groove by two sets of bolts and one retainer ring. The rubber ring is extruded and deformed by adjusting the first set of the bolts to form the seal with the body seat, and the second set of bolts were used to maintain the deformation of the sealing ring. In the use, if there was the leakage in the body seat, the two sets of bolts can be adjusted to seal.



There are four connecting devices around the body, the body feet and hoisting rings can be mounted on these devices. It's easy to install the valves vertically or horizontally by changing the installation position of the body feet and the hoisting rings.

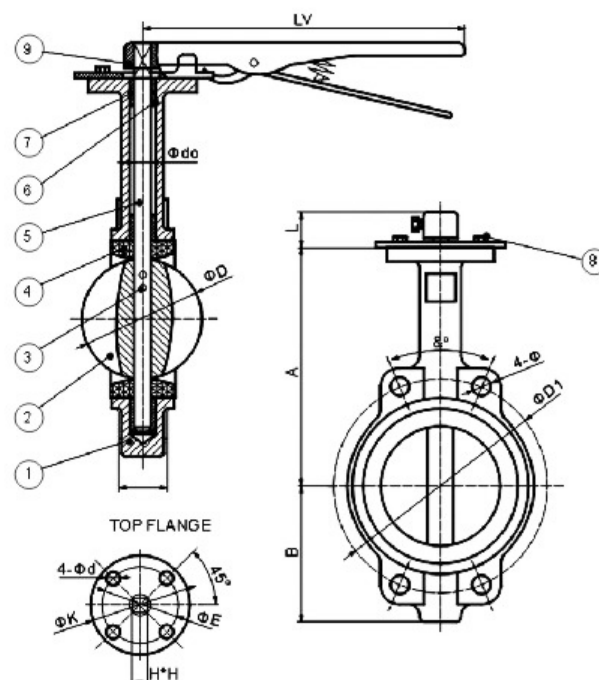


There are two "O" rings in the bottom seal, one is between the body and stem, another is between the body and bottom seal. The sealing performance is improved with double protection.





DN50–DN1200 (DIN/BS)



#### Application standards

- Design standard: EN 593/API 609
- Face to face: According to EN558–1 series 20
- Flange drilling: According to EN1092 PN10/16
- Size scope: DN40–DN 1200(DIN/BS)
- Working temperature: NBR 0–70°C, EPDM 0–80°C
- Working pressure: PN10–16
- Suitable medium: Water
- Coating: Epoxy coating with thickness  $\geq 250 \mu\text{m}$

#### Parts list

No.	Part Name	Material
1	Body	Cast Iron / Ductile Iron
2	Disc	Ductile Iron / SS 304
3	Pin	Stainless steel
4	Seat	EPDM
5	Stem	2Cr13
6	Bushing	P.T.F.E.
7	O-ring	NBR
8	Indicator	Carbon steel
9	Lever / Gear-box	malleable iron / Ductile iron / Aluminum

#### Dimensions

DN50–300

DN	A	B	C	D	L0	d0	ISO5211	L	K	E	4-Φd	n-Φ	D1	&°	H×H
50	161	80	42	52.9	266	12.6	F07	30	90	70	4-Φ10	4-Φ18	125	90°	9×9
65	175	89	44.7	64.5	266	12.6	F07	30	90	70	4-Φ10	4-Φ18	145	90°	9×9
80	181	95	45.2	78.8	266	12.6	F07	30	90	70	4-Φ10	4-Φ18	160	45°	11×11
100	200	114	52	104	266	15.77	F07	30	90	70	4-Φ10	4-Φ18	180	45°	11×11
125	213	127	54.5	123.3	266	18.92	F07	30	90	70	4-Φ10	4-Φ18	210	45°	14×14
150	226	139	55.8	155.1	266	18.92	F07	30	90	70	4-Φ10	4-Φ22	240	45°	14×14
200	260	175	60.6	202.5	355	22.1	F10	40	125	102	4-Φ12	4-Φ22	295	30°	17×17
250	292	203	65.6	250.5	505	28.45	F10	40	125	102	4-Φ12	4-Φ26	355	30°	22×22
300	337	242	76.9	301.6	505	31.6	F10	40	140	102	4-Φ12	4-Φ26	410	30°	22×22

#### Dimensions

DN350–600

DN	A	B	C	D	d0	ISO5211	L	K	E	4-Φd	D1	n-Φ	&°	H×H
350	368	267	76.5	333.3	31.6	F10	45	140	102	4-Φ12	470	4-Φ26	22.5	22×22
400	400	309	86.5	389.6	33.15	F14	52	197	140	4-Φ18	528	4-Φ30	22.5	27×27
450	422	328	102	440.5	38	F14	52	197	140	4-Φ18	585	4-Φ30	18	27×27
500	480	361	127	491.6	41.15	F14	65	197	140	4-Φ18	650	4-Φ33	18	36×36
600	562	459	152	592.5	50.65	F16	70	276	165	4-Φ22	770	20-Φ36	18	–

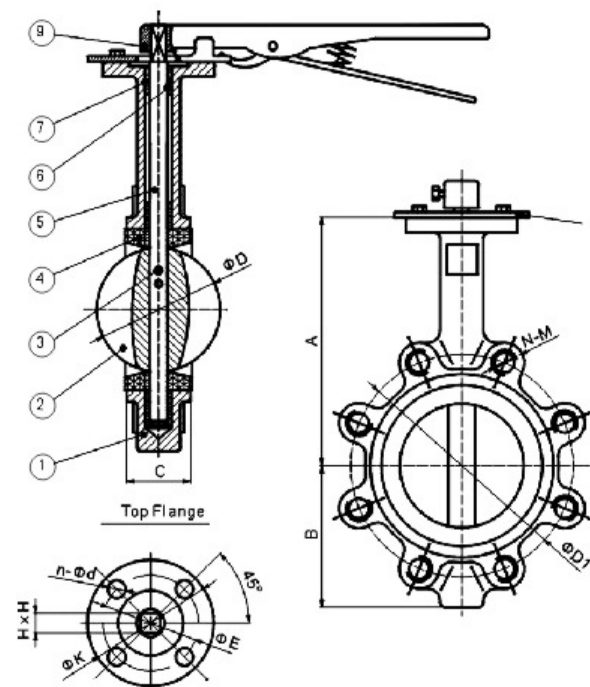
#### Dimensions

DN700–1200

DN	A	B	C	D	d0	ISO5211	L	G	F1	F2	F3	F4	F5	H	ΦD1	n-Φ	4-M	ΦK	ΦE	n-Φd	J×2
700	624	520	163	695	63.35	F25	100	895	165	162	189	183	244	157	840	20-36	4-M33	300	254	8-Φ18	18
750	660	539	167	744.4	63.35	F25	110	984	165	162	189	183	244	157	900	20-36	4-M33	300	254	8-Φ18	18
800	672	591	188	794.7	63.35	F25	110	1015	165	162	199	183	244	157	950	20-39	4-M36	300	254	8-Φ18	18
900	720	656	203	865	75	F25	118	1115	215	196	220	215	270	235	1050	24-39	4-M36	300	254	8-Φ18	20
1000	800	721	216	965	85	F25	142	1230	215	196	220	215	270	235	1170	24-42	4-M39	300	254	8-Φ18	20
1200	941	846	276	1160.6	105	F30	154	1455	215	295	214	310	458	310	1390	28-48	4-M45	350	298	8-Φ22	28



DN50-DN1200



#### Material Specification:

No.	Part Name	Material
1	Body	Cast Iron / Ductile Iron
2	Disc	Ductile Iron / SS304
3	Pin	Stainless steel
4	Seat	EPDM
5	Stem	2Cr13
6	Bushing	P.T.F.E.
7	O-ring	EPDM
8	Indicator	Carbon steel
9	Lever / Gear-box	Malleable Iron / Ductile Iron / Aluminum

#### Application standards

- Working pressure: PN10-16
- Working temperature: NBR 0-70°C, EPDM 0-80°C
- Design standard: EN 1171:2002
- Face to face: According to DIN 3202 K1
- Flange drilling: According to EN1092:1997- PN10/16

#### Dimensions

DN	A	B	C	D	ISO5211	n-Φd	K	E	D1		N-M	
									PN10	PN16	PN10	PN16
50	161	80	42	52.9	F07	4-Φ9	90	70	125	125	4-M16	4-M16
65	175	89	44.7	64.5	F07	4-Φ9	90	70	145	145	4-M16	4-M16
80	181	95	45.2	78.8	F07	4-Φ9	90	70	160	160	8-M16	8-M16
100	200	114	52	104	F07	4-Φ9	90	70	180	180	8-M16	8-M16
125	213	127	55.4	123.3	F07	4-Φ9	90	70	210	210	8-M16	8-M16
150	226	139	55.8	155.1	F07	4-Φ9	90	70	240	240	8-M20	8-M20
200	260	175	60.6	202.5	F10	4-Φ12	125	102	295	295	8-M20	12-M20
250	292	203	65.6	250.5	F10	4-Φ12	125	102	355	355	12-M20	12-M24
300	337	242	76.9	301.6	F10	4-Φ12	125	102	410	410	12-M20	12-M24
350	368	267	76.5	333.3	F10	4-Φ12	125	102	470	470	16-M20	16-M24
400	400	309	86.5	389.6	F14	4-Φ18	197	140	525	525	16-M24	16-M27
450	422	328	102	440.5	F14	4-Φ18	197	140	585	585	20-M24	20-M27
500	480	361	127	491.6	F14	4-Φ18	197	140	650	650	20-M24	20-M30
600	562	459	152	592.5	F14	4-Φ18	197	140	770	770	20-M27	20-M33
700	624	520	163	695	F25	8-Φ18	300	254	840	840	24-M27	24-M33
750	660	539	167	745	F25	8-Φ18	300	254	900	900	24-M30	24-M33
800	672	591	188	795	F25	8-Φ18	300	254	950	950	24-M30	24-M36
900	720	656	203	865	F25	8-Φ18	300	254	1050	1050	28-M30	28-M36
1000	800	721	216	965	F25	8-Φ18	300	254	1160	1170	28-M33	28-M39
1200	941	864	276	1180	F30	8-Φ22	350	298	1380	1390	32-M36	32-M45

#### Product Standard:

Desing: BS 5155, API 609, BS EN593  
Flanges: BS 4504, DIN 2501, ASME 16.1, JIS 5K/10K  
Face to face: DIN 3202, BS EN558-1, ISO 5752,  
ASME B16.1  
Top Flange: ISO 5211  
Test: BS EN12266, API 598

#### Technical Specification:

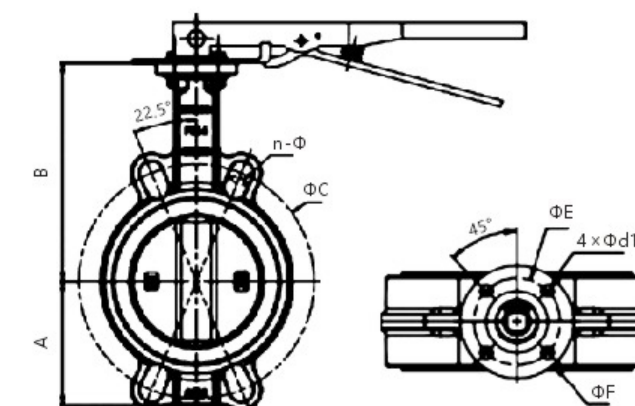
Size: DN50-DN600(2"-24")  
Pressure: PN10/16  
Work Temperature: -5°C~85°C  
Seat Test: 1.1 × PN  
Shell Test: 1.5 × PN  
Medium: Clean Water, Sewage

#### Features:

- Bidirectional seal, easy to operate and install.
- Streamlined disc with low head loss.
- Vulcanized rubber seat, Low torque.
- Valve can be install on pipeline directly without extra flanges gasket.

#### Material Specification:

No.	Part Name	Material
1	Body	EN GJS 500-7
2	Disc	DI/SS/Bronze
3	Stem	AISI 410/416
4	Seat	NBR/EPDM
5	O Rings	NBR
6	Hang Lever	C.S/Aluminum/Plastic

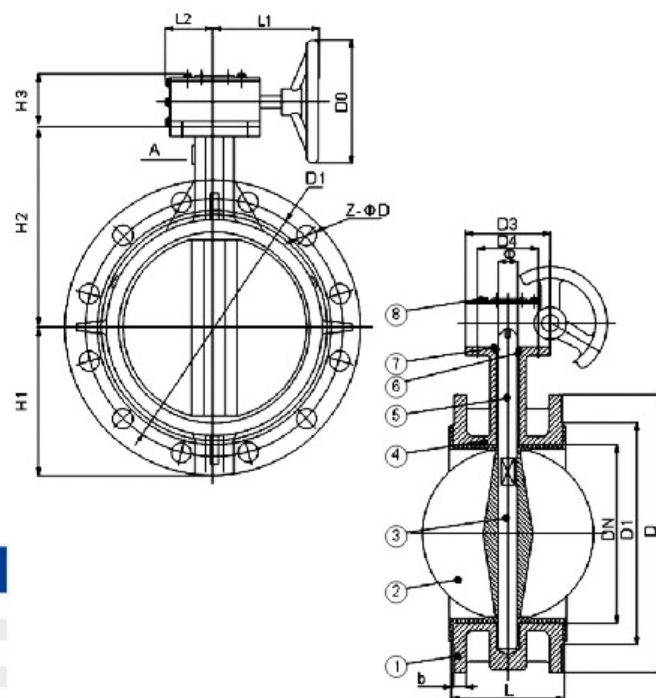


#### Dimension (mm)

Size	DN	L	ΦC	A	B	ΦF	ΦE	ISO5211	n-Φd1	n-Φd PN16
2"	50	42	125	64	138	65	50	F05	4-Φ8	4-Φ19
2 1/2"	65	44	145	73	152	65	50	F05	4-Φ8	4-Φ19
3"	80	45	160	85	158	65	50	F05	4-Φ8	8-Φ19
4"	100	52	180	100	177	65	50	F05	4-Φ8	8-Φ19
5"	125	S4	210	115	190	90	70	F07	4-Φ10	8-Φ19
6"	150	S6	240	131	202	90	70	F07	4-Φ10	8-Φ23
8"	200	60	295	160	237	90	70	F07	4-Φ10	12-Φ23
10"	250	66	355	195	267	125	102	F10	4-Φ12	12-Φ28
12"	300	76	410	230	304	125	102	F10	4-Φ12	12-Φ28
14"	350	78	470	250	330	125	102	F10	4-Φ12	16-Φ28
16"	400	99	525	292	375	175	140	F14	4-Φ18	16-Φ31
18"	450	105	S85	307	405	175	140	F14	4-Φ18	20-Φ31
20"	500	128	6S0	342	450	175	140	F14	4-Φ18	20-Φ34
24"	600	152	770	433	518	210	165	F16	4-Φ22	20-Φ37



DN50–DN1400



**Material Specification:**

No.	Part Name	Material
1	Body	Cast Iron / Ductile Iron
2	Disc	Ductile Iron / SS304
3	Pin	Stainless steel
4	Seat	EPDM
5	Stern	2Cr13
6	Bushing	P.T.F.E.
7	O - ring	EPDM
8	Indicator	Carbon steel

### Application standards

- Design standard: EN593 /API 609
- Face to face: According to EN558-1 series 13, EN558-1 series 14, AWWA C504
- Flange end drilling is according to EN1092 PN10-16, ASME B 16.1-16.5
- Size scope: DN50-DN1400
- Working temperature: NBR 0-70℃, EPDM 0-120℃
- Working pressure: PN10-16, Class 125-150
- Suitable medium: Water
- Coating: Epoxy coating with thickness  $\geq 250 \mu m$

### Dimensions

DN	L	L1	D		D1		D3	D4	H1	H2	H3	b	Z-Φd	
			1.0	1.6	1.0	1.6							1.0	1.6
50	108	160	165	165	125	125	70	50	83	130	60	18	4-18	4-18
65	112	160	185	185	145	145	70	50	93	140	60	18	4-18	4-18
80	114	160	200	200	160	160	70	50	100	150	60	20	8-18	8-18
100	127	160	220	220	180	180	90	70	110	165	60	20	8-18	8-18
125	140	160	250	250	210	210	90	70	123	180	60	22	8-18	8-18
150	140	160	285	285	240	240	90	70	143	200	60	22	8-22	8-22
200	152	210	340	340	295	295	125	102	171	230	72	24	8-22	12-22
250	165	210	390	405	350	355	125	102	203	270	72	24	12-22	12-26
300	178	210	440	460	400	410	150	125	230	320	75	26	12-22	12-26
350	190	210	500	520	460	470	150	125	260	350	75	26	16-22	16-26
400	216	320	565	580	515	525	175	140	300	390	126	28	16-26	16-30
450	222	320	615	640	565	585	175	140	335	428	126	30	20-26	20-30
500	229	320	670	715	620	650	210	165	373	450	126	32	20-26	20-33
600	267	340	780	840	725	770	210	165	430	520	127	34	20-30	20-36
700	292	380	895	910	840	840	300	254	470	600	167	36	24-30	24-36
800	318	380	1015	1025	950	950	300	254	523	662	167	36	24-30	24-39
900	330	400	1115	1125	1050	1050	300	254	589	710	193	40	28-33	28-39
1000	410	400	1230	1255	1160	1170	300	254	656	780	193	42	28-36	28-42
1200	470	440	1405	1485	1340	1390	300	254	732	840	205	46	32-37	32-49
1400	530	440	1630	1685	1560	1590	300	254	840	905	212	50	36-37	36-49

### Double flange butterfly valve

**Product Standard:**

Desing: BS 5155, API 609, BS EN593  
Flanges: BS 4504, DIN 2501, ASME 16.1, JIS 5K/10K  
Face to face: DIN 3202, BS EN558-1, ISO 5752,  
ASME B16.1  
Top Flange: ISO 5211  
Test: BS EN12266, API 598

### Technical Specification:

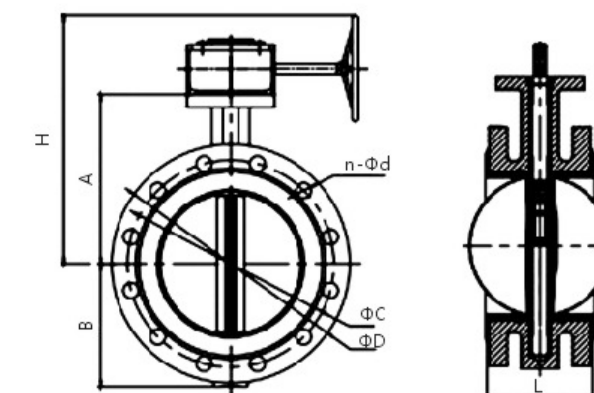
Size: DN50~DN1000(2"-40")  
Pressure: PN10/16  
Work Temperature: -5°C~85°C  
Seat Test: 1.1 × PN  
Shell Test: 1.5 × PN  
Medium: Clean Water, Sewage

### Features:

- Bidirectional seal, easy to operate and install.
- Streamlined disc with low head loss.
- Vulcanized rubber seat. Low torque.
- Valve can be install on pipeline directly without extra flanges gasket.

**Material Specification:**

No.	Part Name	Material
1	Body	EN GJS 500-7
2	Disc	DI/SS/Bronze
3	Stem	AISI 410/416
4	Seat	NBR/EPDM
5	O Rings	NBR
6	Pin	C.S
7	Gear box	Cast Iron

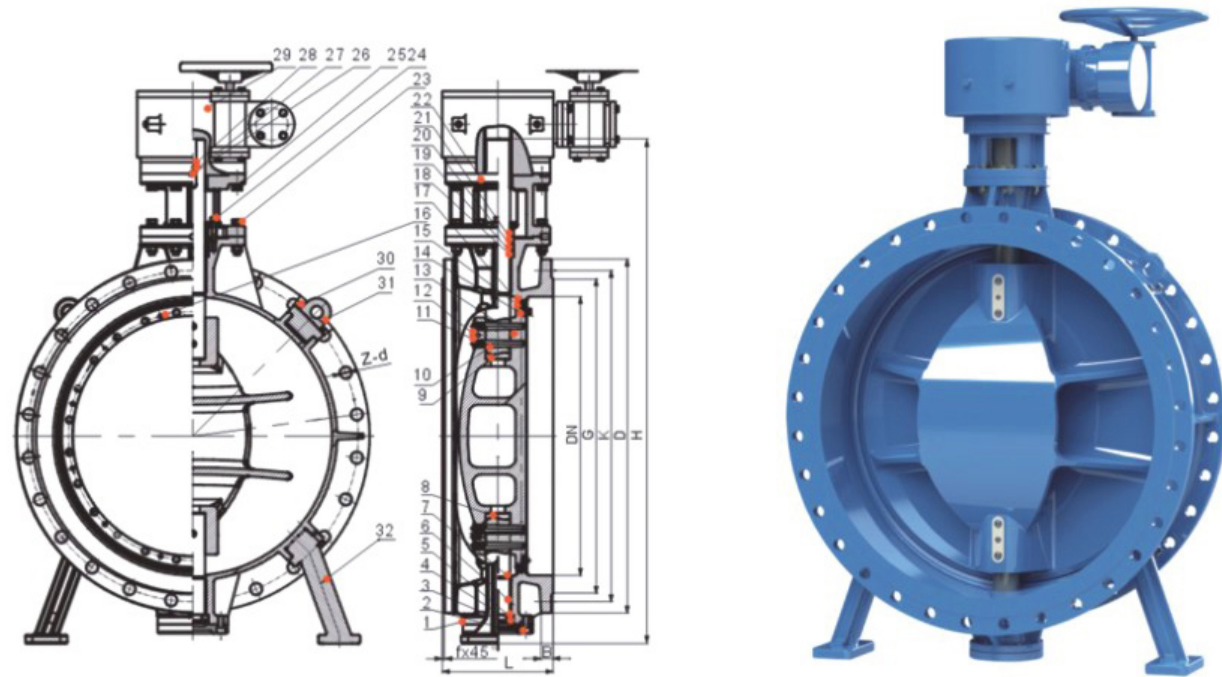


## Dimension (mm)

DN	Size	L	A	B	D	C	H	ISO5211	n-Φd PN10	n-Φd PN16
100	4"	127	155	114	220	180	225	F07	8-Φ19	8-Φ19
125	5"	140	170	125	250	210	240	F07	8-Φ19	8-Φ19
150	6"	140	190	143	285	240	260	F07	8-Φ23	8-Φ23
200	8"	152	205	170	340	295	305	F10	8-Φ23	12-Φ23
250	10"	165	235	198	405	355	335	F10	12-Φ23	12-Φ28
300	12"	178	280	223	460	410	380	F10	12-Φ23	12-Φ28
350	14"	190	310	279	520	470	410	F10	16-Φ23	16-Φ28
400	16"	216	340	300	580	525	480	F14	16-Φ26	16-Φ31
450	18"	222	375	345	640	585	530	F14	20-Φ26	20-Φ31
500	20"	229	430	355	705	650	600	F14	20-Φ26	20-Φ34
600	24"	267	500	410	840	770	676	F16	20-Φ30	20-Φ36
700	28	292	560	478	910	840	740	F25	24-Φ30	24-Φ36
800	32	318	620	529	1020	950	800	F25	24-Φ33	24-Φ39
1000	40	410	735	657	1225	1170	1045	F25	28-Φ36	28-Φ42

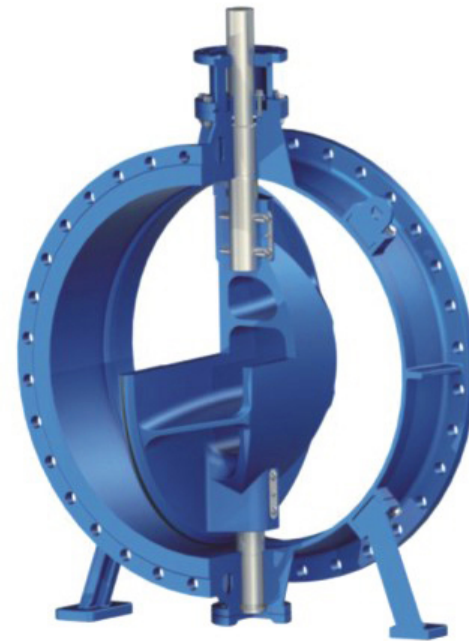


DN100–DN1800 (DIN/BS)



#### Applictiaon Standards

- Design standard: GB12238, BS 5155, EN593 and API609;
- Face to face: According to EN558–1 series 13, EN558–1 series 14, AWWA C504;
- Flange drilling: According to EN1092 PN10–16;
- Size scope: DN100–DN1800;
- Working pressure: PN10–16;
- Suitable medium: Water;
- Coating Epoxy coating with thickness  $\geq 250\mu\text{m}$ .



#### Parts List

No.	Part name	Material
1	Body	Ductile iron+2Cr13
2	Bottom cover	A3 steel
3	Bolt	304
4	"O" ring	NBR
5	Split collar	HPb59–1
6	Bushing	A3 Steel
7	"O" ring	NBR
8	Lower stem	2Cr13
9	Upper stem	2Cr13
10	Taper pins with internalthread	2Cr13
11	Washer	2Cr13
12	Bolt	201
13	Disc	Ductile iron
14	Disc clamp	Ductile iron
15	Bolt, Spring washer, Washer	304, 304, 65Mn, 304
16	Bolt	201

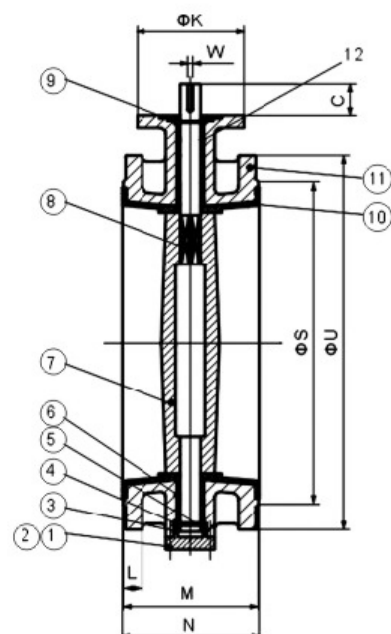
No.	Part name	Material
17	Seal ring	NBR/EPDM
18	Retaining ring	PTFE
19	"V" ring	NBR
20	Washer	PTFE
21	Cover	Ductile iron
22	Inspection port	Ductile iron
23	Bolt, Spring washer, Washer, Nut	304, 65Mn, 304, 316
24	Bolt, Washer	304, 304
25	Bolt, Spring washer, Washer	304, 65Mn, 304
26	Cylindrical Pin	2Cr13
27	Flat Pin	45# Steel
28	Flat Pin	45# Steel
29	Actuator	IP 65
30	Bolt, wasger	304, 304
31	Liftring	Ductile iron
32	Foot	Ductile iron

#### Dimensions

Size		L			D		K		G		f	n-Φd		b	
		Long	Short	AWWA	PN10	PN16	PN10	PN16	PN10	PN16		PN10	PN16	PN10	PN16
Inch	DN	F4/14	13	C504											
4"	100	190	127	127	220	220	180	180	156	156	3	8-Φ19	8-Φ19	19	19
5"	125	200	140		250	250	210	210	184	184	3	8-Φ19	8-Φ19	19	19
6"	150	210	140	127	285	285	240	240	211	211	3	8-Φ23	8-Φ23	19	19
8"	200	230	152	152	340	340	295	295	266	266	3	8-Φ23	12-Φ23	20	20
10"	250	250	165	203	395	405	350	355	319	319	3	12-Φ23	12-Φ28	22	22
12"	300	270	178	203	445	460	400	410	370	370	4	12-Φ23	12-Φ28	24.5	24.5
14"	350	290	190	203	505	520	460	470	429	429	4	16-Φ23	16-Φ28	24.5	26.5
16"	400	310	216	203	565	580	515	525	480	480	4	16-Φ28	16-Φ31	24.5	28
18"	450	330	222	203	615	640	565	585	530	548	4	20-Φ28	20-Φ31	25.5	30
20"	500	350	229	203	670	715	620	650	582	609	4	20-Φ28	20-Φ34	26.5	31.5
24"	600	390	267	203	780	840	725	770	682	720	5	20-Φ31	20-Φ37	30	36
28"	700	430	292	–	895	910	840	840	794	794	5	24-Φ31	24-Φ37	32.5	39.5
32"	800	470	318	–	1015	1025	950	950	901	901	5	24-Φ34	24-Φ41	35	43
36"	900	510	330	305	1115	1125	1050	1050	1001	1001	5	28-Φ34	28-Φ41	37.5	46.5
40"	1000	550	410	–	1230	1255	1160	1170	1112	1112	5	28-Φ37	28-Φ44	40	50
48"	1200	630	470	381	1455	1485	1380	1390	1328	1328	5	32-Φ41	32-Φ50	45	57
56"	1400	–	530	–	–	1675	–	1590	1530	1530	5	–	48-Φ49	–	46
64"	1600	–	600	–	–	1915	–	1820	1750	1750	5	–	44-Φ49	–	49
72"	1800	–	670	–	–	2115	–	2020	1950	1950	5	–	40-Φ49	–	53



DN50-DN1200

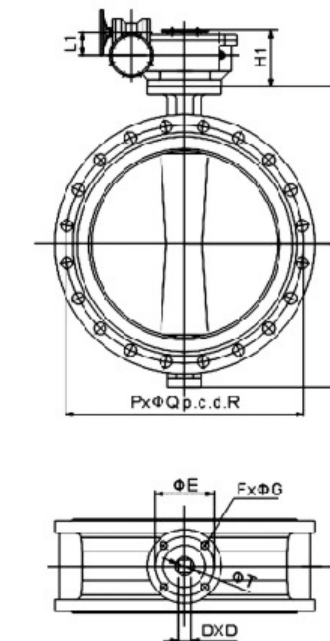
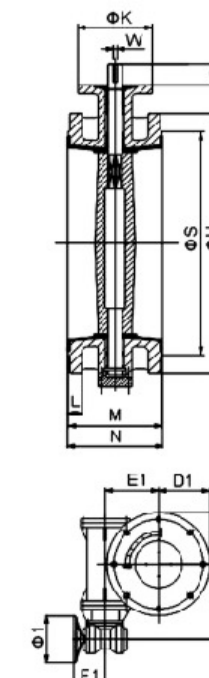
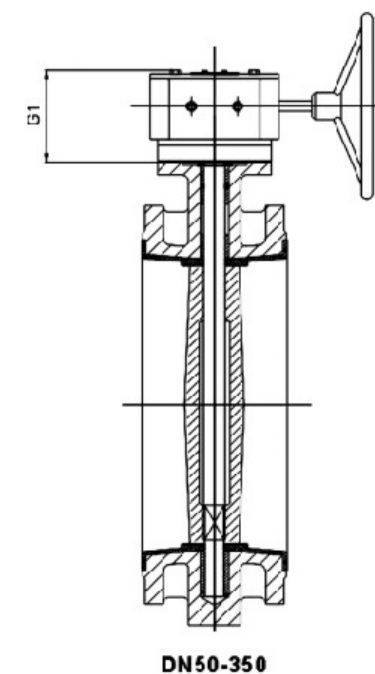


#### Application standards

- Design code: EN593
- Inspection & Test: EN12266-1
- End standard: BS 4504 Pn16
- Face to Face: EN558-1
- Size scope: 50-1200mm
- Nominal Pressure: 1.6MPa
- Shell test(water): 2.4MPa
- Sealing test(water): 1.76MPa
- Working temperature: 10-120°C

#### Parts list

No.	Part Name	Material
1	Hex, Bolt	Carbon steel
2	Spring gasket	Spring steel
3	O ring	EPDM
4	Gasket	Stainless steel
5	End plate	Ductile Iron
6	Bushing	PTFE
7	Disc	Ductile Iron
8	Shaft	SS 410
9	Seat	EPDM
10	Body	Ductile Iron
11	O ring	EPDM

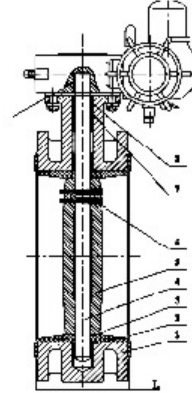
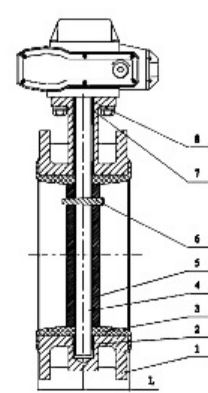
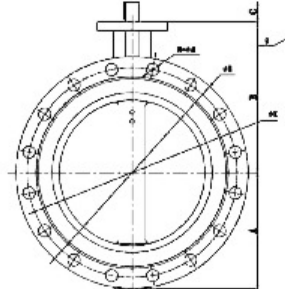


#### Dimensions

DN	A	B	C	K	E	F	G	P	Q	R	L	M	N	S	U	D	W	T
50	83	120	32	65	50	4	7	4	19	125	19	108	111	165	99	9 × 9		Φ12.6
65	93	130	32	65	50	4	7	4	19	145	19	112	115	185	118	9 × 9		Φ12.6
80	100	145	32	65	50	4	7	8	19	160	19	114	117	200	132	9 × 9		Φ12.6
100	114	155	32	90	70	4	10	8	19	180	19	127	130	220	156	11 × 11		Φ15.77
125	125	170	32	90	70	4	10	8	19	210	19	140	143	250	184	14 × 14		Φ18.92
150	143	190	32	90	70	4	10	8	23	240	19	140	143	285	211	14 × 14		Φ18.92
200	170	205	45	125	102	4	12	12	23	295	20	152	155	340	266	17 × 17		Φ22.1
250	198	262	45	120	102	4	12	12	28	355	22	165	168	405	319	22 × 22		Φ28.45
300	223	280	45	125	102	4	12	12	28	410	24.5	178	182	460	370	22 × 22		Φ31.6
350	270	310	45	125	102	4	12	12	28	470	26.5	190	194	520	429	22 × 22		Φ31.6
400	315	260	72	175	140	4	18	18	31	525	28	216	220	580	480		12	Φ37.9
450	340	375	72	175	140	4	18	18	31	585	30	222	227	640	548		12	Φ42.86
500	355	430	77	175	140	4	18	18	34	650	31.5	229	234	715	609		12	Φ45.72
600	410	500	82	210	165	4	23	23	37	770	36	267	272	840	720		16	Φ53.98
700	478	560	82	300	254	8	18	18	37	840	39.5	292	299	910	794		18	Φ63.35
800	529	620	82	300	254	8	18	18	41	950	43	318	325	1025	901		18	Φ63.35
900	584	665	118	300	254	8	18	18	41	1050	46.5	330	337	1125	1001		20	Φ75
1000	657	735	140	300	254	8	18	18	44	1170	50	410	417	1255	1112		22	Φ85
1200	779	917	150	350	298	8	22	22	50	1390	57	470	478	1485	1328		28	Φ105



## Double flange electric soft seal butterfly valve



### Main parts and materials

No.	Partname	Material
1	Body	Cast Iron, Ductile Iron, WCB, Stainless Steel, Bronze
2	Bushing	PTFE
3	Seat	EPDM, NBR
4	Stem	SS416, SS304, SS316
5	Disc	Ductile Iron, WCB, 304, 316, C95800, 2501
6	Pin	416, 304, 316
7	Bushing	PTFE
8	O-ring	NBR

### Valve design

Technical specification	
Valve design	BS 5155, EN593, API 609, MSS SP-67
Face to Face	BS EN558-1, API 609, MSS SP-67, DIN 3202
Pressure test	BS 6755/EN12266, API 598
Flange Drilling	BS4504 PN10/PN16, ANSI B16.1 Class 125 DIN2501 PN10/PN16
Top Flange	ISO5211

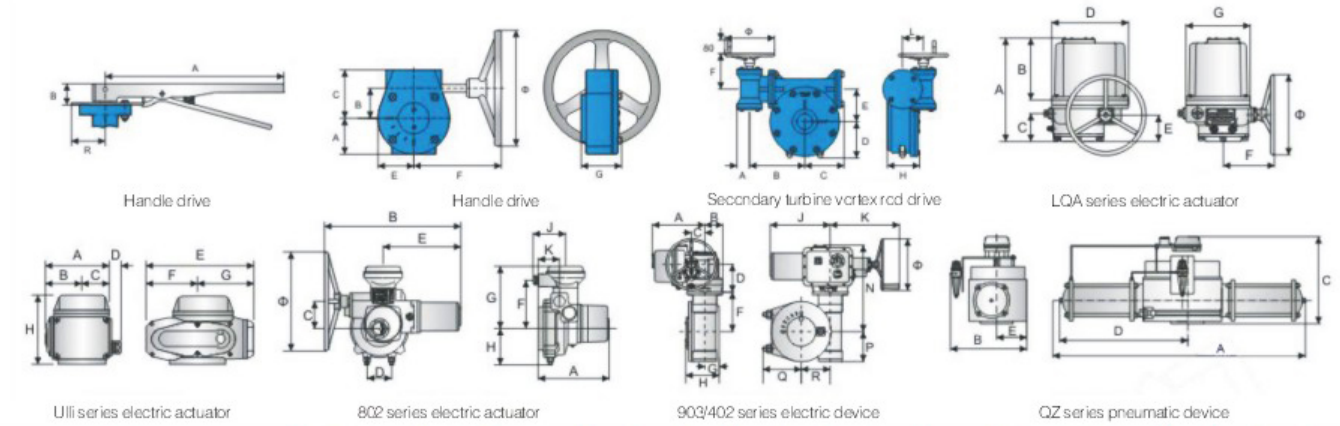
### Main external and connecting dimensions(mm)

Size		A	B	C	L	ANSI 150B		PN 10		PN 16		JIS 10K		Top Flange			Electric Actuator Code	Total height
mm	in					ΦK	n-Φd	ΦK	n-Φd	ΦK	n-Φd	ΦK	n-Φd	ΦD	ΦD1	n-ΦG		(No electric actuator)
65	2 1/2"	72	136	32	112	139.7	4-Φ19	145	4-Φ18	145	4-Φ18	140	4-Φ19	77	57	4-Φ7	BRTEE-5	341
80	3"	88	146	32	114	152.4	4-Φ19	160	8-Φ18	160	8-Φ18	150	8-Φ19	65	50	4-Φ7	BRTEE-5	357
100	4"	96.5	158	32	127	190.5	4-Φ19	180	8-Φ18	180	8-Φ18	175	8-Φ19	90	70	4-Φ10	BRTEE-10	374
125	5"	115	179	32	140	215.9	8-Φ19	210	8-Φ18	210	8-Φ18	210	8-Φ23	90	70	4-Φ10	BRTEE-16	410
150	6"	126	197	32	140	241.3	8-Φ22.4	240	8-Φ22	240	8-Φ22	240	8-Φ23	90	70	4-Φ10	BRTEE-25	451
200	8"	161	230	45	152	298.4	8-Φ22.4	295	8-Φ22	295	12-Φ22	290	12-Φ23	115	89	4-Φ14	BRTEE-25	570
250	10"	199	271	45	165	361.9	12-Φ25.4	350	12-Φ22	355	12-Φ26	355	12-Φ25	115	89	4-Φ14	BRTEE-50	658
300	12"	215	305	45	178	431.8	12-Φ25.4	400	12-Φ22	410	12-Φ26	400	16-Φ25	140	108	4-Φ14	QZ10	719
350	14"	261	350	45	190	476.2	12-Φ28.4	460	16-Φ22	470	16-Φ26	445	16-Φ25	140	108	4-Φ14	QZ10	765
400	16"	290	381	51	216	539.7	16-Φ28.4	515	16-Φ26	525	16-Φ30	510	16-Φ27	197	159	4-Φ21	QZ20	911
450	18"	307	392	51	222	577.8	16-Φ31.8	565	20-Φ26	585	20-Φ30	565	20-Φ27	197	159	4-Φ21	QZ20	962
500	20"	340	441	57	229	635	20-Φ31.8	620	20-Φ26	650	20-Φ33	620	20-Φ27	197	159	4-Φ21	QZ30	1049
600	24"	396	500	70	267	749.3	20-Φ35.1	725	20-Φ30	770	20-Φ36	730	24-Φ33	276	216	4-Φ22	QZ45	1271
700	28"	496	567	66	292	863.6	28-Φ35.1	840	24-Φ30	840	24-Φ36	840	24-Φ33	300	254	8-Φ18	QZ60	1476
800	32"	543	641	66	318	977.9	28-Φ41.1	950	24-Φ33	950	24-Φ39	950	28-Φ33	300	254	8-Φ18	QZ90	1533
900	36"	584	692	118	330	1085.8	32-Φ41.1	1050	28-Φ33	1050	28-Φ33	1050	28-Φ33	300	254	8-Φ18	QZ90	1655
1000	40"	638	735	142	410	1200.2	38-Φ41.1	1160	28-Φ36	1170	28-Φ42	1270	28-Φ39	300	254	8-Φ18	QZ120	1765
1200	48"	763	917	150	470	1422.4	44-Φ41.1	1380	32-Φ39	1390	32-Φ48	1380	32-Φ39	350	298	8-Φ22	QZ120	1995
1400	56"	919	1040	160	530	-	-	1590	36-Φ44	1590	36-Φ50	-	-	415	356	8-Φ32	QZ180	2310
1500	60"	965	1050	165	570	-	-	1700	36-Φ44	1710	36-Φ57	-	-	415	356	8-Φ32	QZ180	2595

## Double flange electric soft seal butterfly valve

## Butterfly Valve Series

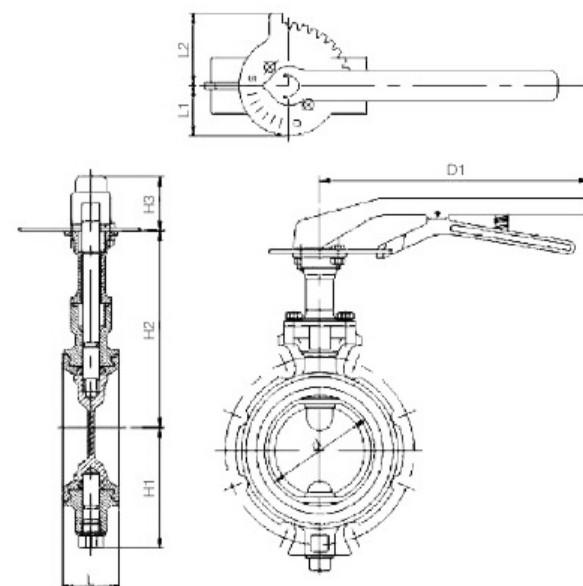
### Electric device parameters table



Type	Size	Max Torque Output (N.m)	Motor Power (kW)	Time for 90° turning (s)	A	B	C	D	E	F	G	H	J	K	N	P	Q	R	Φ	WT (kg)
0	DN50-150				226.7	32														0.9
	DN200-300				359	50														2.3
3D-15	DN50-150				52	45	74		52	152.5	75							52	150	5.2
3D-50	DN200-250				75	62.75	101		75	250	86							75.2	300	13
3D-120	DN300-350				81	80	118		81	227	83								300	15
3D-30/250	DN400-500				56.5	178.5	121	115	104	174		125.5							300	56.9
3D-30/400	DN600				56.5	197.5	142	144	130	174		145.5							300	72.37
LQA5-1	DN50-80	50	16	15	255	154	70	191	65	126	160								200	17
LQA10-1	DN100	100	30	15	255	154	70	191	65	126	160								200	17
LQA20-1	DN125-150	200	60	15	255	154	70	191	65	126	160								200	17
LQA40-1	DN200	400	90	15	302	171	96	240	86	175	198								300	35
LQA80-1	DN250-300	800	180	15	302	171	96	240	86	175	198								300	35
B02 10-1	DN50-100	100	30	15	250	420	79	82	253	156	213	110	132	62					220	35
B02 20-1	DN125-150	200	60	15	250	420	79	82	253	156	213	110	132	62					220	35
B02 60-1	DN200-300	600	180	15	287	552	110	101	330	196	254	156	134	86					360	55
B02 120-1	DN600/PN10	1200	370	15	287	552	110	101	330	196	254	156	134	86					360	55
B02 150-0.5	DN800-450/PN10	1500	370	30	287	552	110	101	330	196	254	156	134	86					360	55
B02 250-1	DN500/PN16	2500	750	15	330	625	140	152	365	230	288	185	134	120					500	100
B02 500-0.5	DN600/PN10	5000	750	30	330	625	140	152	365	230	288	185	134	120					500	100
B02 1000-0.2	DN700-600/PN10	10000	1100	75																
9033 60/4026	DN1000/PN10		750	75	311	113	79	160		230	85	195	487	400	506	188	230	170	300	
9033 60/4026	DN1000/PN10		1100	50	311	113	79	160		230	85	195	487	400	506	188	230	170	300	
9033 60/4026	DN1000/PN10		1500	38	311	113	79	160		230	85	195	487	400	506	188	230	170	300	
9033 60/4026	DN1000/PN10		2200	25	311	113	79	160		230	85	195	487	400	506	188	230	170	300	
9034 90/4027	DN900/PN16		1500	75	334	150	98	172		280	105	228	508	450	563	232	255	202	400	
9034 90/4027	DN900/PN16		2200	50	334	150	98	172		280	105	228	508	450	563	232	255	202	400	
9034 90/4027	DN900/PN16		3000	38	334	150	98	172		280	105	228	508	450	563	232	255	202	400	
9034 120/4027	DN1200/PN10		1500	75	334	150	98	172		280	105	228	508	450	563	232	255	202	400	
9034 120/4027	DN1200/PN10		2200	50	334	150	98	172		280	105	228	508	450	563	232	255	202	400	
9034 120/4027	DN1200/PN10		3000	38	334	150	98	172		280	105	228	508	450	563	232	255	202	400	
9034 120/4027	DN1200/PN10		4000	25	334	150	98	172		280	105	228	508	450	563	232	255	202	400	
9035 250/4028	DN120		3000	75	359	175	128	238		320	135	290	600	535	646	300	305	238	500	
9035 250/4028	DN120		4000	50	359	175	128	238		320	135	290	600	535	646	300	305	238	500	
9035 250/4028	DN120		5500	38	359	175	128	238		320	135	290	600	535	646	300	305	238	500	
9035 250/4028	DN120		7500	25	359	175	128	238		320	135	290	600	535	646	300	305	238	500	
U15-5	DN50(2")-80(3")	50	10W/F	20	101	56	45	20	155	86	69	115								2.6
U15-10	DN100(4")-125(5")	100	23W/F	30	115	63	52	26	208	98	110	115								3.7
U15-25	DN150(6")-200(8")	250	45W/F	30	153	90	63	26	256	123	133	141								6.7
U15-50	DN250(10")	500	90W/F	30	153	90	63	26	256	126	133	141								7.3
QZ5 Start & stop	DN50-80	50			235	295	180	130												8
QZ5 Regulate	DN50-80	50			320	265	325	130												8
QZ15 Start & stop	DN100-150	150			250	325	205	170												15
QZ15 Regulate	DN100-150	150			320	290	345	170												15
QZ45 Start & stop	DN200-250	450			610	280	380	410	80											35
QZ45 Regulate	DN200-250	450			610	280	400	410	80											35
QZ65 Start & stop	DN300-350/PN10	850			610	305	395	420	110											37
QZ65 Regulate	DN300-350/PN10	850			610	305	400	420	110											37
QZ150 Start & stop	DN800-450/PN10	1500			765	335	435	500	110											68
QZ150 Regulate	DN800-450/PN10	1500			765	345	400	500	110											68
QZ200 Start & stop	DN450	2000			765	335	455	500	110											72
QZ200 Regulate	DN450	2000			765	345	400	500	110											72
QZ300 Start & stop	DN600-600/PN10	3000			870	405	460	600	150											95
QZ300 Regulate	DN600-600/PN10	3000			870	415	400	600	150											95
QZ500 Start & stop	DN700-600/PN10	5000			1230	630	450	640	175											140
QZ500 Regulate	DN700-600/PN10	5000			1230	430	400	640	175											140

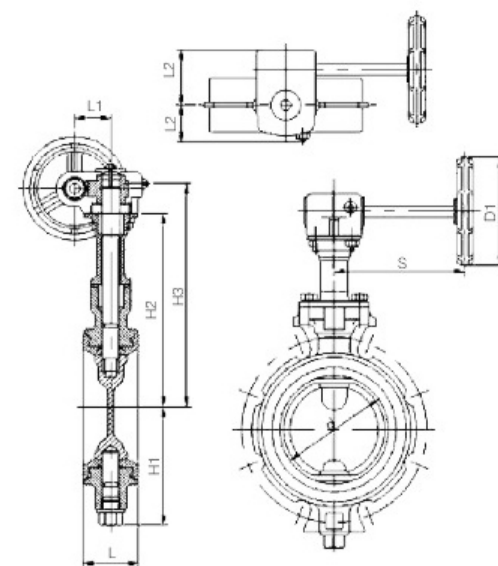


## Anti-knot dew butterfly valve



Main external and connecting dimensions(mm)

Size		d	L	H1	H2	H3	L1	L2	D1
inch	mm								
1 1/2"	40	42	33	70	145	1 1/2"	1 1/2"	1 1/2"	1 1/2"
2"	50	52	43	82	145	2"	2"	2"	2"
2 1/2"	65	67	46	90	157	2 1/2"	2 1/2"	2 1/2"	2 1/2"
3"	80	80	46	99	165	3"	3"	3"	3"
4"	100	102	52	112	183	4"	4"	4"	4"
5"	125	126	56	132	196	5"	5"	5"	5"
6"	150	150	56	146	214	6"	6"	6"	6"



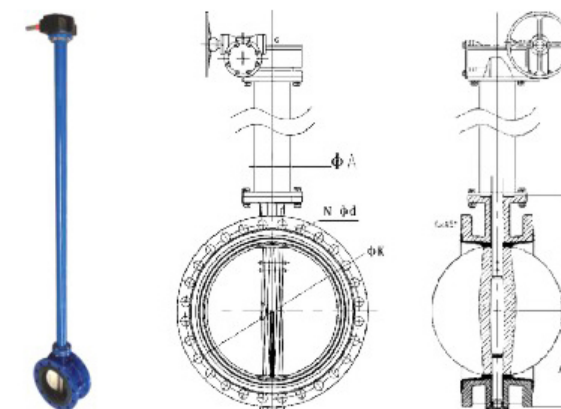
Main external and connecting dimensions(mm)

Size		d	L	H1	H2	H3	L1	L2	L3	S	D1
inch	mm										
1 1/2"	40	42	33	70	145	168					
2"	50	52	43	82	145	168					
2 1/2"	65	67	46	90	157	180	35	35	56	132	100
3"	80	80	46	99	165	188					
4"	100	102	52	112	183	206	41	39	68		
5"	125	126	56	132	196	220					
6"	150	150	56	146	214	238	58	48	89	149	140
8"	200	199	60	188	241	272					
10"	250	248	68	220	320	367	67	61	97	178	200
12"	300	297	78	255	355	402		63			



## Double flange electric soft seal butterfly valve

## Butterfly Valve Series



Lengthen bar butterfly valve products lengthen the length of the valve stem, some underground, pipeline indoor, many medium special places to provide convenient switch design of a butterfly valve, to provide convenience for valve control. Reliable seal, long service life, widely used in water plant, power plant, steel mill, paper making, chemical industry, food and other systems supply and drainage, as a regulation and cut-off use.

The flange plates at both ends of the extension rod are connected to the upper flange of the valve and the turbine head respectively, which is easy to remove.

### Main parts and materials

No.	Part name	Material
1	Body	Cast Iron, Ductile Iron, WCB, Stainless Steel, Bronze
2	Bushing	PTFE
3	Seat	EPDM, NBR
4	Stem	SS416, SS304, SS316
5	Disc	Ductile Iron, WCB, 304, 316, C95800, 2501
6	Pin	416, 304, 316
7	Bushing	PTFE
8	Q-ring	NBR

### Valve design

技术规范 Technical specification	
Valve design	BS 5155, API 609, MSS SP-67
Face to Face	BS EN558-1, API 609, MSS SP-67, DIN 3202
Pressure test	BS 6755/EN12266, API 598
Flange Drilling	BS4504 PN10/PN16, ANSI B16.1 Class125 DIN2501 PN10/PN16
Top Flange	ISO5211

Main external and connecting dimensions(mm)

Size		A	B	C	L	ANSI 150B		PN 10		PN 16		JIS10K		Top Flange		
mm	in					ΦK	n-Φd	ΦK	n-Φd	ΦK	n-Φd	ΦK	n-Φd	ΦD	ΦD1	n-Φd
65	2 1/2"	72	136	32	112	139.7	4-Φ19	145	4-Φ18	145	4-Φ18	140	4-Φ19	77	57	4-Φ7
80	3"	88	146	32	114	152.4	4-Φ19	160	8-Φ18	160	8-Φ18	150	8-Φ19	65	50	4-Φ7
100	4"	96.5	158	32	127	190.5	4-Φ19	180	8-Φ18	180	8-Φ18	175	8-Φ19	90	70	4-Φ10
125	5"	115	179	32	140	215.9	8-Φ19	210	8-Φ18	210	8-Φ18	210	8-Φ23	90	70	4-Φ10
150	6"	126	197	32	140	241.3	8-Φ22.4	240	8-Φ22	240	8-Φ22	240	8-Φ23	90	70	4-Φ10
200	8"	161	230	45	152	298.4	8-Φ22.4	295	8-Φ22	295	12-Φ22	290	12-Φ23	115	89	4-Φ14
250	10"	199	271	45	165	361.9	12-Φ25.4	350	12-Φ22	355	12-Φ26	355	12-Φ25	115	89	4-Φ14
300	12"	215	305	45	178	431.8	12-Φ25.4	400	12-Φ22	410	12-Φ26	400	16-Φ25	140	108	4-Φ14
350	14"	261	350	45	190	476.2	12-Φ28.4	460	16-Φ22	470	16-Φ26	445	16-Φ25	140	108	4-Φ14
400	16"	290	381	51	216	539.7	16-Φ28.4	515	16-Φ26	525	16-Φ30	510	16-Φ27	197	159	4-Φ21
450	18"	307	392	51	222	577.8	16-Φ31.8	565	20-Φ26	585	20-Φ30	565	20-Φ27	197	159	4-Φ21
500	20"	340	441	57	229	635	20-Φ31.8	620	20-Φ26	650	20-Φ33	620	20-Φ27	197	159	4-Φ21
600	24"	396	500	70	267	749.3	20-Φ35.1	725	20-Φ30	770	20-Φ36	730	24-Φ33	276	216	4-Φ22
700	28"	496	567	66	292	863.6	28-Φ35.1	840	24-Φ30	840	24-Φ36	840	24-Φ33	300	254	8-Φ18
800	32"	543	641	66	318	977.9	28-Φ41.1	950	24-Φ33	950	24-Φ39	950	28-Φ33	300	254	8-Φ18
900	36"	584	692	118	330	1085.8	32-Φ41.1	1050	28-Φ33	1050	28-Φ33	1050	28-Φ33	300	254	8-Φ18
1000	40"	638	735	142	410	1200.2	38-Φ41.1	1160	28-Φ36	1170	28-Φ42	1270	28-Φ39	300	254	8-Φ18
1200	48"	763	917	150	470	1422.4	44-Φ41.1	1380	32-Φ39	1390	32-Φ48	1380	32-Φ39	350	298	8-Φ22
1400	56"	919	1040	160	530	-	-	1590	36-Φ44	1590	36-Φ50	-	-	415	356	8-Φ32
1500	60"	965	1050	165	570	-	-	1700	36-Φ44	1710	36-Φ57	-	-	415	356	8-Φ32





## > Resilient Soft Seated Gate Valve Series

- NRS resilient soft seated flange gate valve
- RS resilient soft seated flange gate valve
- NRS resilient soft seated (PVC/PE PIPE) socket gate valve
- NRS resilient soft seated (DI PIPE) socket gate valves
- Anti-theft NRS resilient soft seated gate valve
- Electric actuated NRS resilient soft seated gate valve
- Gate valves with extension spindle
- Heavy type NRS resilient soft seated flange gate valve
- BS Electric soft-seal gate valve

### SAFETY

#### Body

The body is made of ductile iron by precision casting molding. It was designed by 3D software, with finite element analysis for the structure. The safety coefficient is over 2.5. The bottom of the channel is without groove, no accumulation of rubbish, and with small flow resistance.



#### Stem

The stem is made of stainless steel by rolling. Integral type, avoiding the use of the brass half rings to reduce stem diameter. The smooth modified ladder type screw is extruded. Global mirror polish, it fits the O rings well, to ensure that the rotation is flexible and labor saving.



#### Wedge

The frame of the wedge is made of ductile iron by the percoated sand molding, the wedge is covered by EPDM totally. Double seal design, each seal line can work independently.



#### Bonnet

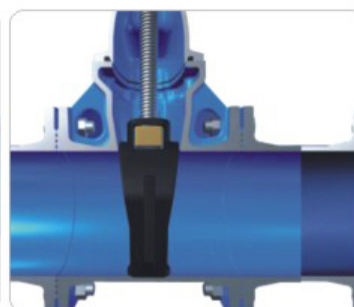
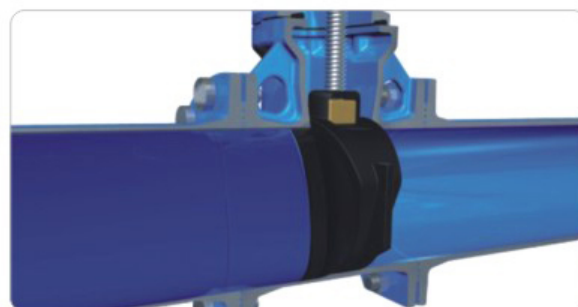
The grade 8.8 bolts connect the bonnet and the body, the bolts were covered by hot-melt glue which protect the bolts for anti-corrosion. The gasket between the bonnet and body is made of EPDM. The valve cover is with a retaining groove, make sure that the rubber gasket won't be extruded out under high water pressure.





### Environmental-friendly

The inside and outside surface of the valve is coated with sanitary epoxy powder by static electricity, the average thickness is above 250  $\mu\text{m}$ . The adhesion of the coating is strong; it won't be destroyed under the impact force test of 3J. Internal parts can meet with the environmental protection demand, and can be used for the potable water, food and pharmaceutical area directly. The electrostatic powder coating process can promise high adhesion force and strong corrosion resistance.



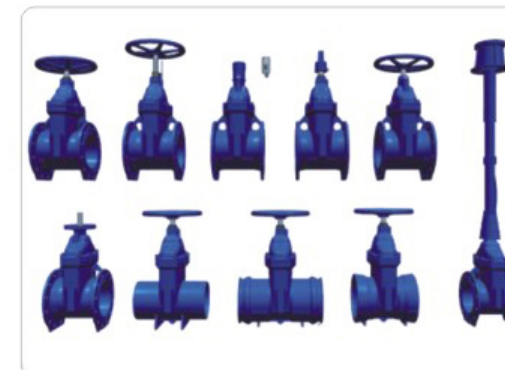
The rubber parts are made of high quality EPDM or NBR, which is in accordance with the drinking water requirements, avoiding the problem of the common rubber which is easy to breed microorganism. The products are not only approved by the national quality standards for drinking water related products, but also reached the UK WRAS standards. The stem nut is forged and rolled from the national standard brass rod (low lead), and no pollution to water.



### Convenient

#### Convenient installation and operation

We offer various kinds of interface such as flange connection, PVC pipe socket, Ductile iron pipe socket, reducing etc.). The special connection design can be developed as the requests of the customers. The gate valves can be operated by electric actuator, handwheels, square nuts or special key. It's convenient to install the valves in different positions of the pipe lines. Except for the vertical installation, the valves also can be horizontal installation. In some narrow spaces, you can choose the installation way which is convenient for the operation of the valves.



The actual operating torque is only 80% of diameter



The products passed the switch life test of 5000 times



The gate valves can bear the MST of 3\*DN N.M



The valve can be completely closed and reach at 0 leakage with small torque. The actual operating torque is only 80% of diameter, and the gate valves can bear the MST of 3\*DN N.M. The products passed the switch life test of 5000 times. For the valves of bigger diameter, we can offer the labour saving devices, to ensure that all the valves can be opened and closed by one person. The handwheel is strong, with accurate dimensions, it fits well with the valve stem, the shape is in accordance with human mechanics, to ensure easy operation.

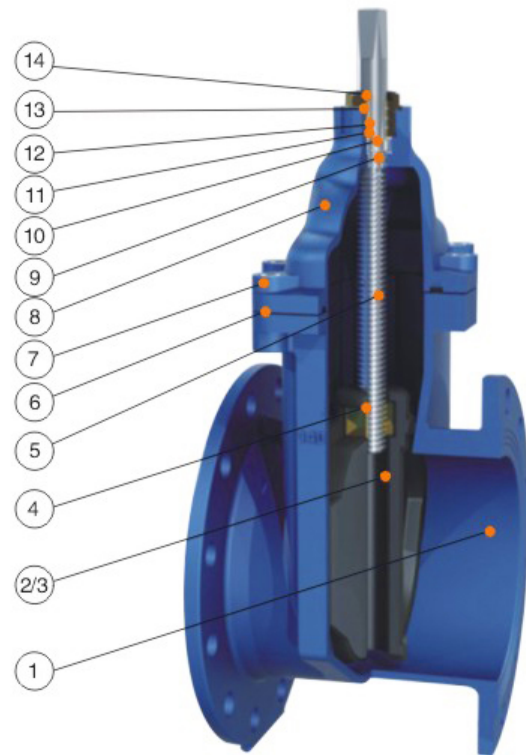
#### Convenient maintenance

The seal ring can be replaced without cutting off the water, it's easier for the maintenance and reduce the maintenance time as much as possible. The friction between the brass bushing and the "O" type seal ring is small, and the seal can work for long time. The Max. Operate torque is under the control.





DN40–DN1000 (DIN/BS), 2"–12"(ANSI)



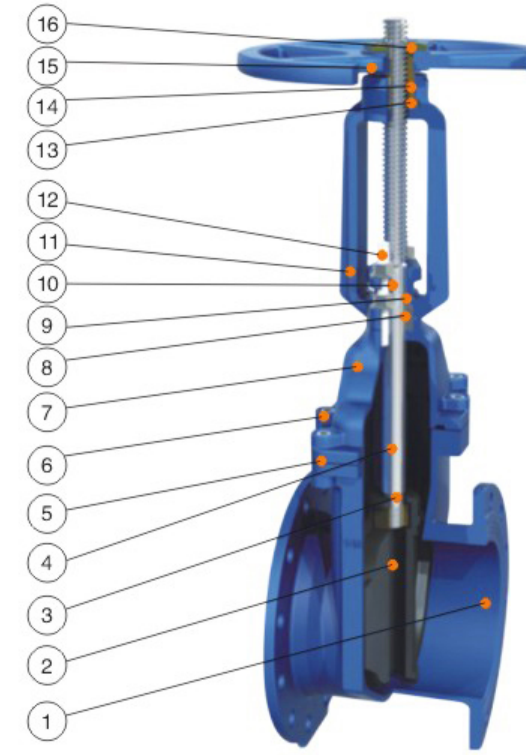
#### Application standards

Design standard	EN1171:2002
Face to face	According to EN558–1 series 14(DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10
Flange drilling	According to EN1092 PN10–16, ASME B16.1–16.5
Size scope	DN40–DN1000(DIN/BS), 2"–12"(ANSI)
Working temperature	NBR 0–70°C, EPDM 0–80°C
Working pressure	PN10–16, Class 125–150
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

#### Parts list

No.	Part Name	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron with EPDM / NBR
3	Guide collar	Nylon
4	Wedge nut	Brass
5	Stem	2Cr13
6	Gasket	NBR / EPDM
7	Bonnet bolt	Galvanized Carbon steel / SS304
8	Bonnet	Ductile Iron
9	"O" ring	NBR
10	Locating washer	Nylon
11	Bushing	Brass
12	"O" ring	NBR
13	"O" ring	NBR
14	Dust ring	NBR / EPDM

DN50–DN300 (DIN/BS), 2"–12"(ANSI)



#### Application standards

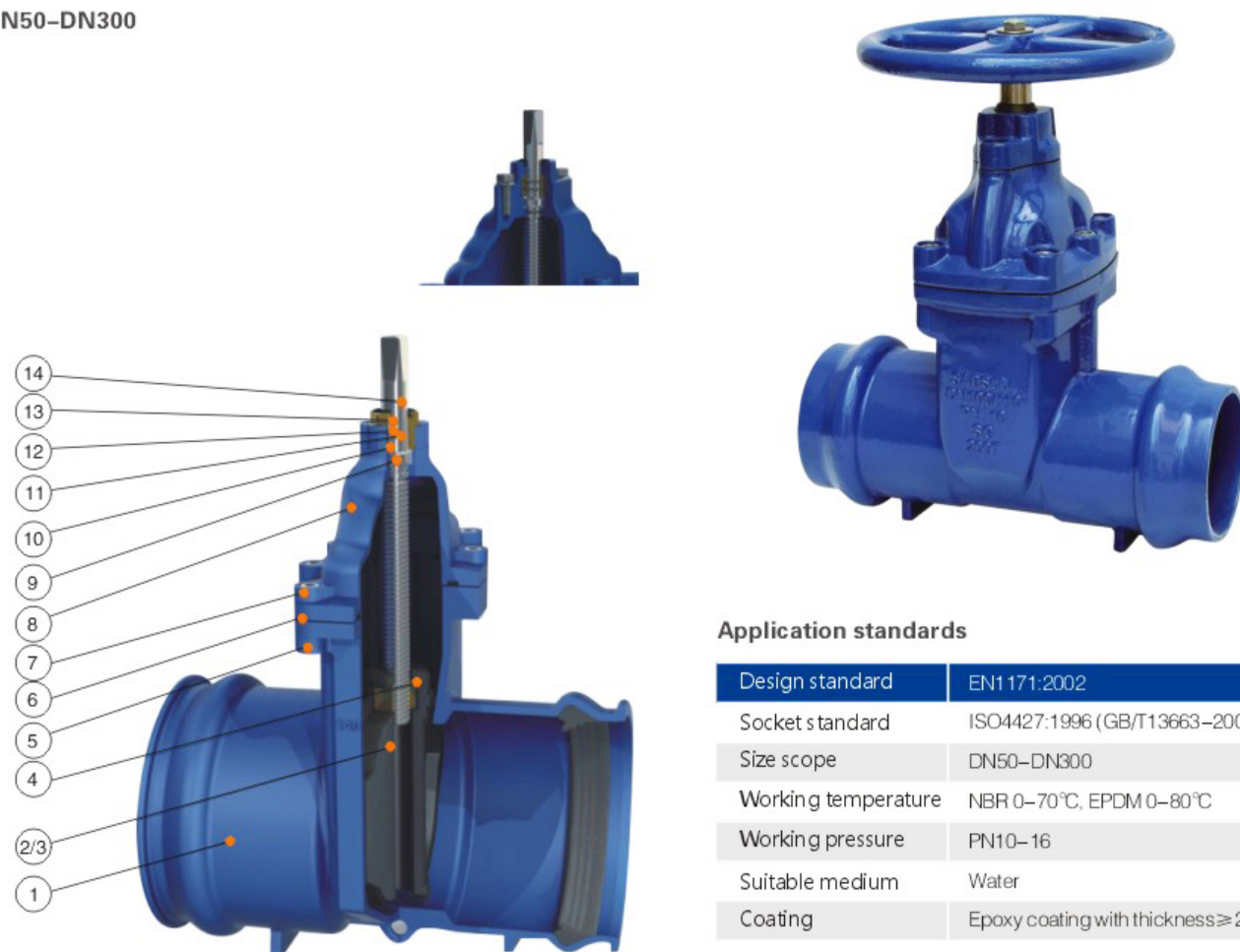
Design standard	EN1171:2002
Face to face	According to EN558–1 series 14(DIN F4), series 3 (BS5163), and ASME B16.10
Flange drilling	According to EN1092 PN10–16, ASME B16.1–16.5
Size scope	DN50–DN300(DIN/BS), 2"–12"(ANSI)
Working temperature	NBR 0–70°C, EPDM 0–80°C
Working pressure	PN10–16, Class 125–150
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

#### Parts list

No.	Part Name	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron with EPDM / NBR
3	Disc nut	Brass
4	Stem	2Cr13
5	Gasket	NBR / EPDM
6	Bonnet bolt	Galvanized Carbon steel / SS304
7	Bonnet	Ductile Iron
8	Filler	Graphit
9	"O" ring	NBR
10	Gland	Ductile
11	Yoke	Ductile
12	Bolt	2Cr13
13	Nut	Brass
14	Nut	Ductile Iron
15	Handwheel	Ductile Iron
16	Nut	Brass



DN50–DN300



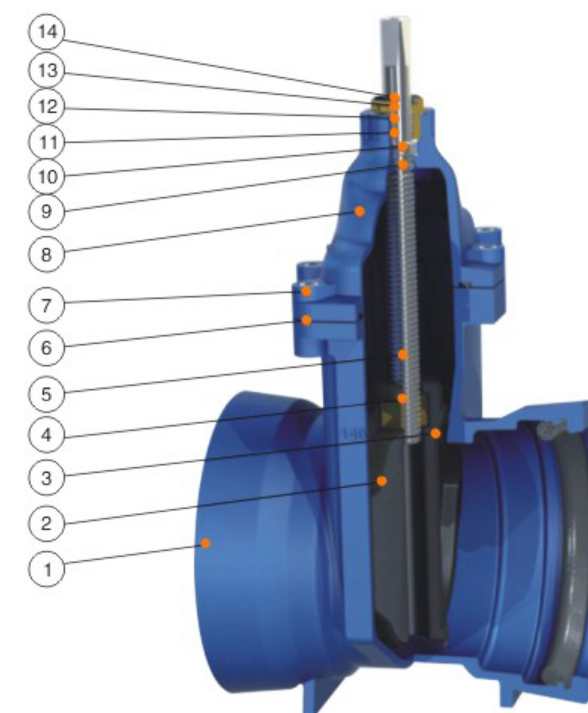
**Application standards**

Design standard	EN1171:2002
Socket standard	ISO4427:1996 (GB/T13663–2000)
Size scope	DN50–DN300
Working temperature	NBR 0–70°C, EPDM 0–80°C
Working pressure	PN10–16
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

**Parts list**

No.	Part Name	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron with EPDM / NBR
3	Guide collar	Nylon
4	Disc nut	Brass
5	Stem	2Cr13
6	Gasket	NBR / EPDM
7	Bonnet bolt	Galvanized Carbon steel / SS304
8	Bonnet	Ductile Iron
9	O-ring	NBR
10	Locating washer	Nylon
11	Brass nut	Brass
12	O-ring	NBR
13	O-ring	NBR
14	Dust ring	EPDM

DN80–DN400



**Application standards**

Design standard	EN1171:2002
Socket standard	ISO2531:1998 (GB/T13295–2008)
Size scope	DN80–DN400
Working temperature	NBR 0–70°C, EPDM 0–80°C
Working pressure	PN10–16
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

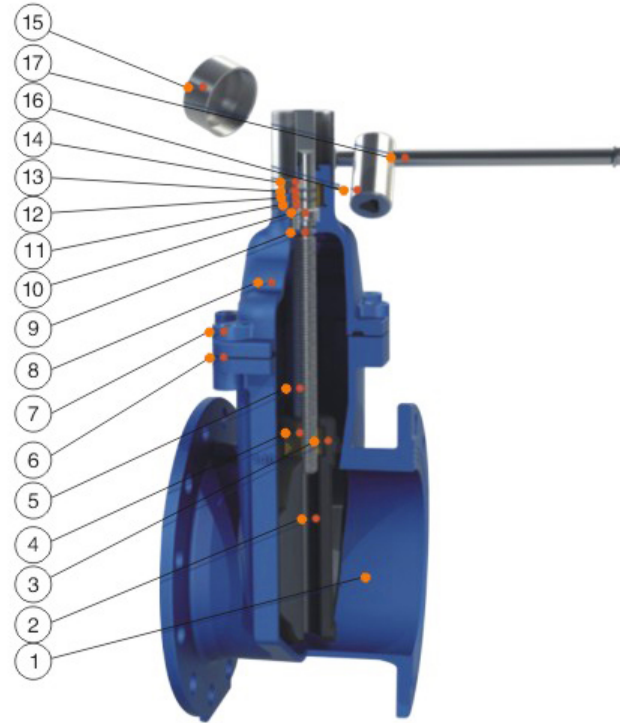
**Parts list**

No.	Part Name	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron with EPDM / NBR
3	Guide collar	Nylon
4	Disc nut	Brass
5	Stem	2Cr13
6	Gasket	NBR / EPDM
7	Bonnet bolt	Galvanized Carbon steel / SS304
8	Bonnet	Ductile Iron
9	O-ring	NBR
10	Locating washer	Nylon
11	Brass nut	Brass
12	O-ring	NBR
13	O-ring	NBR
14	Dust ring	EPDM



## Anti-theft NRS resilient soft seated gate valve

DN80–DN400 (DIN/BS), 3"–12" (ANSI)



Magnetic anti-theft



### Application standards

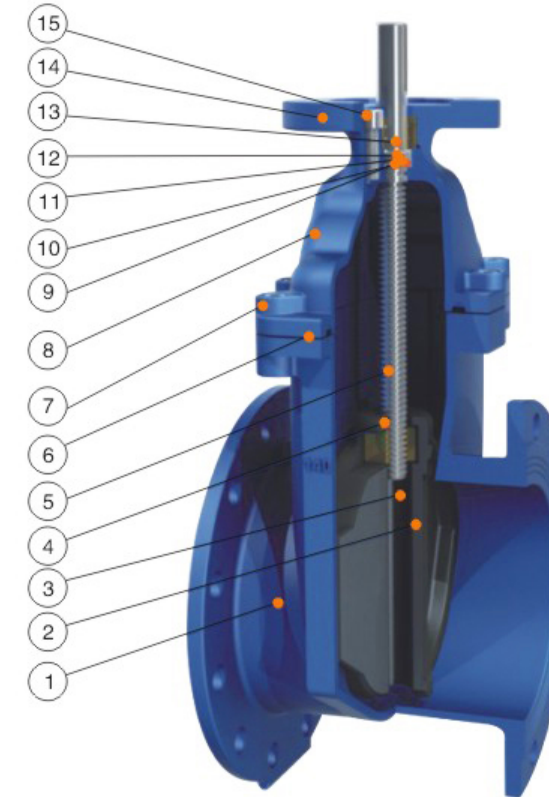
Design standard	EN1171:2002
Face to face	According to EN558–1 series 14(DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10
Flange drilling	According to EN1092 PN10–16, ASME B16.1–16.5
Size scope	DN80–DN400(DIN/BS), 3"–12"(ANSI)
Working temperature	NBR 0–70°C, EPDM 0–80°C
Working pressure	PN10–16, Class 125–150
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

### Parts list

No.	Part Name	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron with EPDM / NBR
3	Guide collar	Nylon
4	Wedge nut	Brass
5	Stem	2Cr13
6	Gasket	NBR / EPDM
7	Bonnet bolt	Galvanized Carbon steel / SS304
8	Bonnet	Ductile Iron
9	*O* ring	NBR
10	Locating washer	Nylon
11	Bushing	Brass
12	*O* ring	NBR
13	*O* ring	NBR
14	Dust ring	EPDM
15	Theftproof cap	2Cr13
16	Theftproof cover	2Cr13
17	Theftproof lever	2Cr13

## Electric actuated NRS resilient soft seated gate valve

DN40–DN1000 (DIN/BS), 2"–12" (ANSI)



### Application standards

Design standard	EN1171:2002
Face to face	According to EN558–1 series 14(DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10
Flange drilling	According to EN1092 PN10–16, ASME B16.1–16.5
Size scope	DN40–DN1000(DIN/BS), 2"–12"(ANSI)
Working temperature	NBR 0–70°C, EPDM 0–80°C
Working pressure	PN10–16, Class 125–150
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

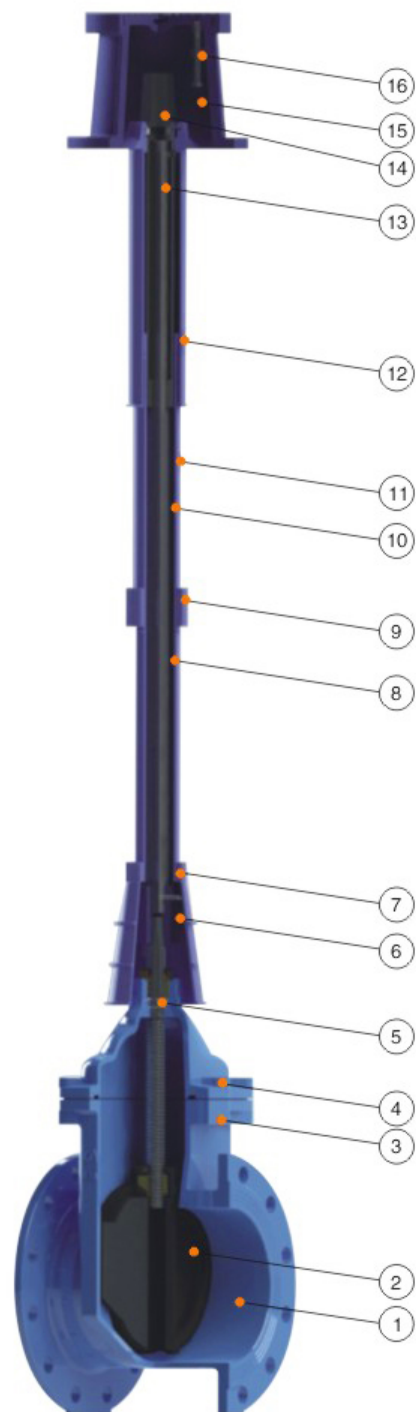
### Parts list

No.	Part Name	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron with EPDM / NBR
3	Guide collar	Nylon
4	Disc nut	Brass
5	Stem	2Cr13
6	Gasket	NBR / EPDM
7	Bonnet bolt	Galvanized Carbon steel / SS304
8	Bonnet	Ductile Iron
9	*O* ring	NBR
10	Locating washer	Nylon
11	Locating	Brass
12	*O* ring	NBR
13	Bushing	Brass
14	Top flange	Ductile Iron
15	Bolt	2Cr13



## Gate valves with extension spindle

DN40–DN1000 (DIN/BS), 2"–12" (ANSI)



### Application standards

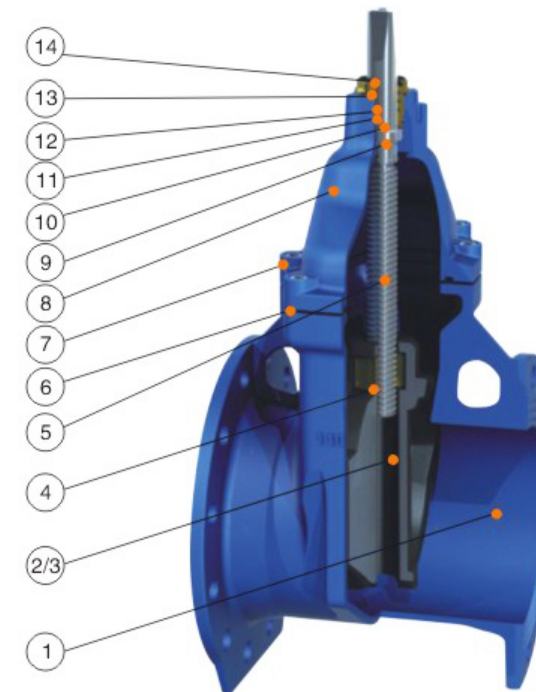
Design standard	EN1171:2002
Face to face	According to EN558–1 series 14(DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10
Flange drilling	According to EN1092 PN10–16, ASME B16.1–16.5
Size scope	DN40–DN1000(DIN/BS), 2"–12"(ANSI)
Working temperature	NBR 0–70°C, EPDM 0–80°C
Working pressure	PN10–16, Class 125–150
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

### Parts list

No.	Part Name	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron with EPDM / NBR
3	Bonnet	Ductile Iron
4	Gland	Ductile Iron
5	Stem	2Cr13
6	Gland cover	HDPE
7	Connecting shaft	Galvanized nickel alloy
8	Lower retaining tube	PVC / PE
9	Protective sleeve	HDPE
10	Annular tube	Galvanized nickel alloy
11	Upper retaining tube	PVC / PE
12	Guide shaft tube	Galvanized nickel alloy
13	Square shaft	Galvanized nickel alloy
14	Rotary shaft	Galvanized nickel alloy
15	Box	Ductile Iron
16	Box cover	Ductile Iron

## Heavy type NRS resilient soft seated flange gate valve

DN50–DN300



With position indicator



### Application standards

Design standard	EN1171:2002
Face to face	According to EN558–1 series 3 (BS5163) and 14 (DIN F4)
Flange drilling	According to EN1092 PN10–16
Size scope	DN50–DN300
Working temperature	NBR 0–70°C, EPDM 0–80°C
Working pressure	PN10–16
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

### Parts list

No.	Part Name	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron with EPDM / NBR
3	Guide collar	Nylon
4	Wedge nut	Brass
5	Stem	2Cr13
6	Gasket	NBR / EPDM
7	Bonnet bolt	Galvanized Carbon steel / SS304
8	Bonnet	Ductile Iron
9	"O" ring	NBR
10	Locating washer	Nylon
11	Bushing	Brass
12	"O" ring	NBR
13	"O" ring	NBR
14	Dust ring	NBR / EPDM



### DIN standard caps

Square sizes: 32mm\*32mm



### BS 5163 standard caps



DN	A	B
50, 80, 100, 150, 200, 250, 300	63	35
400, 500, 600, 700, 800	75	48

### American standard caps

Square sizes: 2" \* 2"



### Gear-box



### Electric actuator



### Extension rod type

Galvanized square pipe extension rod



Retractable stem



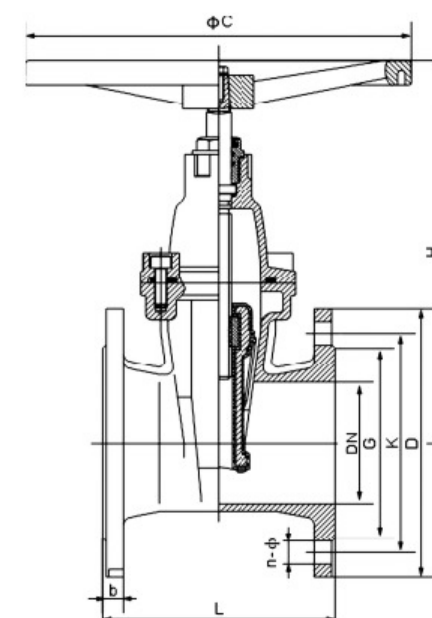
Internal and external sleeve fixed extension rod



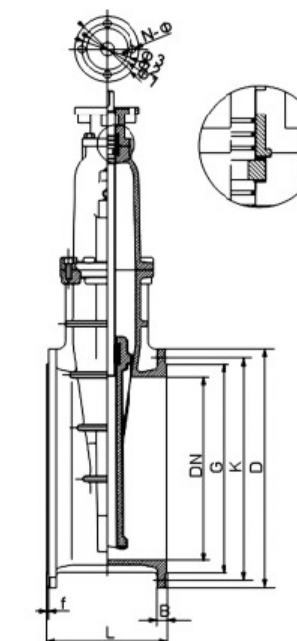
### Dimensions

#### DIN F4/F5 BS 5163

DN50-DN300



DN350-DN1000



### Dimensions

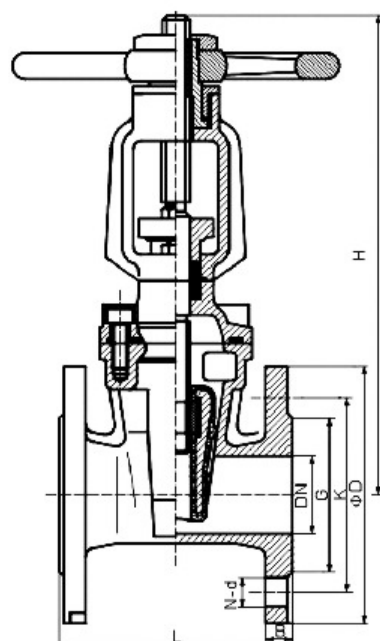
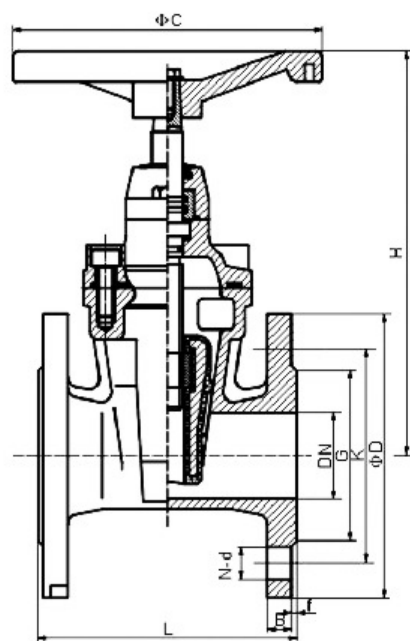
DN		L			D		K		G		f	n-Φd		B	
		DIN		BS5163	PN10	PN16	PN10	PN16	PN10	PN16		PN10	PN16	PN10	PN16
		F4	F5												
2	50	150	250	178	165	165	125	125	99	99	3	4-19	4-19	19	19
2½	65	170	270	190	185	185	145	145	118	118	3	4-19	4-19	19	19
3	80	180	280	203	200	200	160	160	132	132	3	8-19	8-19	19	19
4	100	190	300	229	220	220	180	180	156	156	3	8-19	8-19	19	19
5	125	200	325	254	250	250	210	210	184	184	3	8-19	8-19	19	19
6	150	210	350	267	285	285	240	240	211	211	3	8-23	8-23	19	19
8	200	230	400	292	340	340	295	295	266	266	3	8-Φ23	12-Φ23	20	20
10	250	250	450	330	395	405	350	355	319	319	3	12-Φ23	12-Φ28	22	22
12	300	270	500	356	445	460	400	410	370	370	4	12-Φ23	12-Φ28	24.5	24.5
14	350	290	550	381	505	520	460	470	429	429	4	16-Φ23	16-Φ28	24.5	26.5
16	400	310	600	406	565	580	515	525	480	480	4	16-Φ28	16-Φ31	24.5	28
18	450	330	650	432	615	640	565	585	530	548	4	20-Φ28	20-Φ31	25.5	30
20	500	350	700	457	670	715	620	650	582	609	4	20-Φ28	20-Φ34	26.5	31.5
24	600	390	800	508	780	840	725	770	682	720	5	20-Φ31	20-Φ37	30	36
28	700	430	900	610	895	910	840	840	794	794	5	24-Φ31	24-Φ37	32.5	39.5
32	800	470	1000	660	1015	1025	950	950	901	901	5	24-Φ34	24-Φ41	35	43
36	900	510	1100	711	1115	1125	1050	1050	1001	1001	5	28-Φ34	28-Φ41	37.5	46.5
40	1000	550	1200	813	1230	1255	1160	1170	1112	1112	5	28-Φ37	28-Φ44	40	50



ANSI

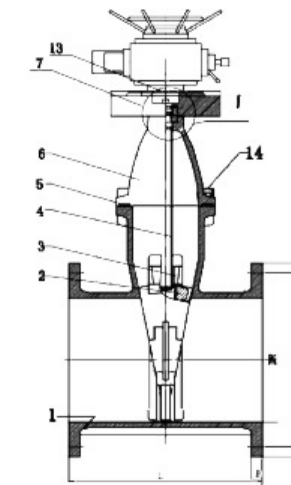
DN50-DN300

DN50-DN300



BS Electric soft-seal gate valve

Resilient Soft Seated Gate Valve Series



Main parts and materials

No.	Parts	Material
1	Body	GGG50
2	Disc	GGG50+EPDM+NBR
3	Stem nut	Brass (HPb59-1)
4	Stem	2Cr13
5	Gasket	EPDM
6	Bonnet	GGG50

Valve design

Technical specification	
Valve design	BS 5163
Face to Face	EN558
Pressure test	EN12266
Flange Drilling	BS4504

Dimensions

Non-rising stem resilient

DN	L	(H) iron handwheel	(H) steel handwheel	C	D	b		f	150	K	G		n-d	□S
						125	150				125	150		
2"	178	235.5	248.5	180	152	15.9	14.3	2	120.5		92		4-Φ19	14
2 1/2"	190	258	274	180	178	17.5	15.9	2	139.5		105		4-Φ19	14
3"	203	288.5	301.5	200	191	19.1	17.5	2	152.		127		4-Φ19	15
4"	229	319	332	250	229	23.9	22.3	2	190.5		157		8-Φ19	15
5"	254	360.5	377.5	280	254	23.9	22.3	2	216.5		186		8-Φ22	19
6"	267	398	415	280	279	25.4	23.9	2	241.5		216		8-Φ22	19
8"	292	509	533	340	343	28.6	27	2	298.5		270		8-Φ22	19
10"	330	608	645	340	406	30.2	28.6	2	362		324		12-Φ25	24
12"	356	683	715	400	483	31.8	30.2	2	432		381		12-Φ25	27

Rising stem resilient

DN	L	(H) iron handwheel	C	D	b		f	150	K	G		n-d
					125	150				125	150	
2"	178	327	178	152	15.9	14.3	2	120.5		92		4-Φ19
2 1/2"	190	368	178	178	17.5	15.9	2	139.5		105		4-Φ19
3"	203	405	203	191	19.1	17.5	2	152.5		127		4-Φ19
4"	229	452	254	229	23.9	22.3	2	190.5		157		8-Φ19
5"	254	610	254	254	23.9	22.3	2	216.5		186		8-Φ22
6"	267	615	305	279	25.4	23.9	2	241.5		216		8-Φ22
8"	292	775	356	343	28.6	27	2	298.5		270		8-Φ22
10"	330	900	405	406	30.2	28.6	2	362		324		12-Φ25
12"	356	1008	457	483	31.8	30.2	2	432		381		12-Φ25

Main external and connecting dimensions(mm)

DN	L	D		K		A	b		N-Φd		Electric Actuator Code
		PN16	PN25	PN16	PN25		PN16	PN25	PN16	PN25	
40	165	150	150	110	110	3	19	20	4-Φ19	4-Φ19	Z5
50	178	165	165	125	125	3	19	20	4-Φ19	4-Φ19	Z10
65	190	185	185	145	145	3	19	22	4-Φ19	8-Φ19	Z10
80	203	200	200	160	160	3	19	22	8-Φ19	8-Φ19	Z15
100	229	220	235	180	190	3	19	24	8-Φ19	8-Φ23	Z20
125	254	250	270	210	220	3	19	28	8-Φ19	8-Φ26	Z20
150	267	285	300	240	250	3	19	30	8-Φ23	8-Φ26	Z20
200	292	340	360	295	310	3	20	32	12-Φ23	12-Φ26	Z30
250	330	405	435	355	370	3	22	35	12-Φ28	12-Φ30	Z30
300	356	460	485	410	430	4	25	38	12-Φ28	12-Φ30	Z45/Z60
350	381	520	-	470	-	4	27	-	16-Φ28	-	Z90
400	406	580	-	525	-	4	28	-	16-Φ31	-	Z120
450	432	640	-	585	-	4	29	-	20-Φ31	-	Z120
500	457	715	-	650	-	4	32	-	20-Φ34	-	Z180
600	508	830	-	770	-	5	36	-	20-Φ37	-	Z250
700	610	910	-	840	-		39.5	-	24-Φ37	-	Z350
800	660	1025	-	950	-		43	-	24-Φ41	-	Z350
900	711	1125	-	1050	-		46.5	-	28-Φ41	-	Z500
1000	813	1255	-	1170	-		50	-	28-Φ44	-	Z800



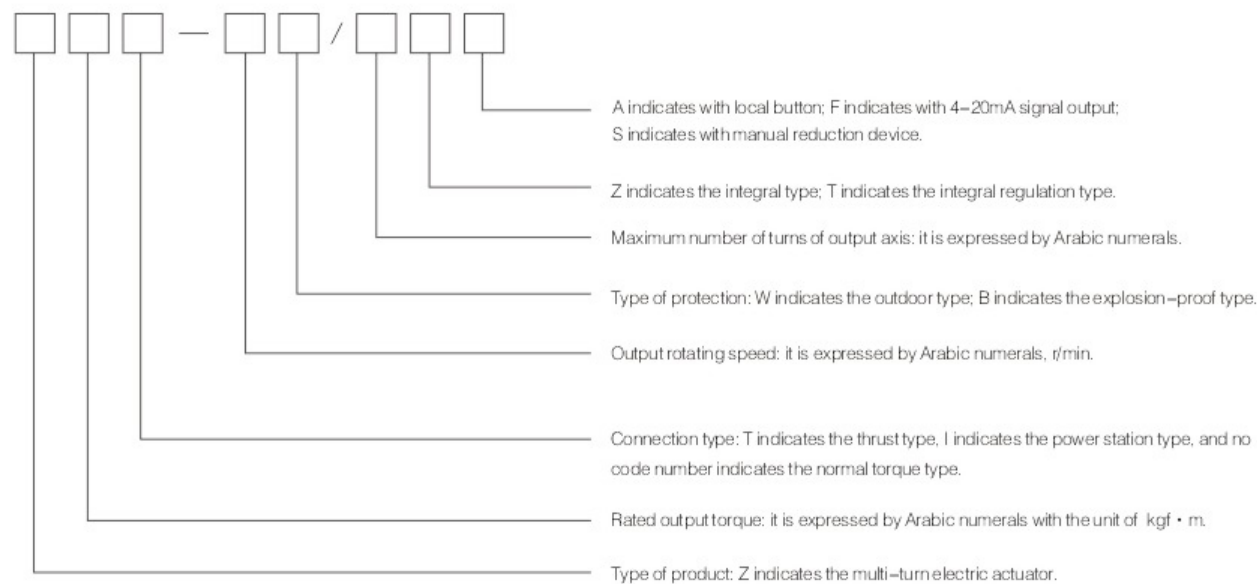
## General Instruction

Multi-turn valve electric actuator, known by the name of Z-type, which is used for opening, closing or adjusting the valves, is an essential actuating device which can be used for remote control, centralized control and self control to the valves, with features of comprehensive function, reliable performance, advanced control system, small volume, light weight, convenient application and maintenance and so on. It can be applicable to the valves, whose open-close parts will move in a straight line, such as gate valve, stop valve, diaphragm valve, anchor gate, water gate valve and so on.

The actuator can be used in the industries like electric power, metallurgy, petroleum, chemical engineering, paper-making, sewage disposal and so on.

There are many types for multi-turn electric actuator: outdoor type, explosion-proof type, integral type, integral-regulation type, integral explosion proof type, integral-regulation explosion proof type and so on. It can be divided into torque type and thrust type according to the connection type.

## Presentation of Model



## Opening Environment and Major Technical Parameters

- 3.1 Power supply: general: single-phase 220V, three-phase 380V(50Hz), long distance DC24V Special: single-phase 110V, three-phase 415V, 660V, (50Hz, 60Hz)
- 3.2 Operating environment:
  - 3.2.1 Ambient temperature: 20 ~ +60°C (special order 60 ~ +80°C)
  - 3.2.2 Relative humidity: 95% (when 25°C)
  - 3.2.3.1 The outdoor type can be used in the places without inflammable/explosive and corrosive medium;
  - 3.2.3.2 There are two types of explosion-proof products: d I can be applicable to non-excavating working area for coal mine, and d II BT4, which is applicable to the environment with IIA, IIB grade T1 ~ T4 explosive gas mixture, can be used in the factory. (For details refer to GB3836.1)
  - 3.2.4 Degree of protection: the outdoor type and explosion-proof type is IP 55, IP 65, IP 67.
- 3.3 Working time: 10 minutes for short time (special order can reach to 15-60 minutes).
- 3.4 Refer to table 1 for the model and major performance parameter.

Table 1

Model & Spec.	Torque (Nm)	Thrust (KN)	Maximum diameter of valve stem (mm)	Manual ratio	Output Rotation speed (r/min)	Motor power (KW)	Current (A)	Referential weight (kg)
Z5	50	20	28	1:1	12/36	0.12/0.18	0.57/0.83	28
Z10	100	40	28	1:1	24/36	0.25/0.37	1.03/1.38	45
Z15	150	40	28	1:1	24/36	0.37/0.55	1.38/2.2	46
Z20	200	100	40	1:1	18/36	0.37/0.75	1.38/2.62	56
Z30	300	100	40	1:1	18/36	0.55/1.1	2.2/4	58
Z45	450	150	48	1:1/20:1	24/36	1.1/1.5	4/4.12	110
Z60	600	150	48	1:1/20:1	24/36	1.5/2.2	4.12/5.25	112
Z90	900	200	60	1:1/25:1	24/36	2.2/3	5.25/7.9	140
Z120	1200	200	60	1:1/25:1	24/36	3/4	7.9/8.87	142
Z180	1800	325	70	22.5:1	18/36	4/7.5	8.87/15.6	250
Z250	2500	325	70	22.5:1	18/36	5.5/10	12.05/20.5	255
Z350	3500	700	80	20:1	18/24	7.5/10	15.6/20.5	330
Z500	5000	700	80	20:1	18/24	10/15	20.5/26.6	350

Note: If user requires, we could provide the products with other rotation speed: 12/18/24/30/36/42/48/60(r/min)

Normally, we provide the products with treble counters. If the number of turns is large, give clear indication of it when placing an order, we can provide the products with quadruple counters.

## 4. Outline and connection dimension

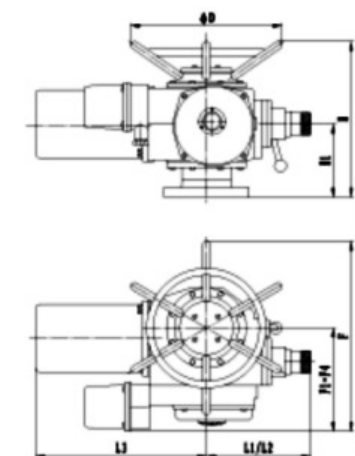
### 4.1 Outline and outline dimension (refer to Figure 1 and Table 2)

Table 2 Outline Dimension

Model	H	H1	L1	L2	L3	F	F1	F2	F3	F4	ΦD
Z5	271	96	158	226	249	158	259	-	310	-	316
Z10-Z30	316	130	200	238	295	200	255	317	349	374	400
Z45/Z60	415	195	277	277	394	230	275	391	369	394	460
Z90/Z120	453	195	281	281	412	278	310	426	404	429	556
Z180/Z250	585	250	320	320	474	295	360	476	455	476	320
Z350/Z500	717	280	399	399	1076	433	417	442	417	542	565

Note: 1) L1 is outdoor type/explosion-proof type; L2 is integral type/integral explosion;

2) F1 is outdoor type; F2 is explosion-proof type; F3 is integral type; F4 is integral explosion-proof type/integral regulation explosion-proof type.





## Structure

Z type electric actuator is consisted of motor, speed reducer, torque controller, motion controller, opening position indicator, manual-electric shifter, hand wheel and electric parts. The conventional type is sealing with ground surfaces; the outdoor type applies the round rabbet and o-seal ring seal; The explosion-proof type has the same sealing structure as the outdoor type, is added by the explosion-proof surface, and applies explosion-proof type connecting box and three phase motor used for the outdoors, anti corrosion, explosion-proof type electric valve of the YBDF series.

## Trouble trouble shooting

No.	Trouble	Cause	Trouble shooting
1	The motor can not start	1.The power line disconnects. 2.control circuit is faulty the motion controller and torque controller break down	1. check the power line 2. remove the fault of motioncontroller or torque controller.
2	The turning direction Of output axis can not Meet the specification	The phase sequence of power supply has been connected wrongly	Exchange any two power lines.
3	The motor is Overheating	1. the continuous operating time is too Long 2. The motor can not match the electricactuator. 3. one phase conductors disconnects	1. stop running , and make the Motor cool down 2. check the matching situation 3. Check the power line
4	The motor stops when Running	1. the overload torque controller of electric actuator actuates 2. the valve is faulty	1. increase the setting torque 2. Check the valve
5	When the valve is in Place ,the motor can not stop running or the light is Off.	1. the motion controller and torque controller are faulty 2. the motion controller has been adjusted improperly	1. check the motion or torque Controller 2. readjust the motion controller
6	No signal of valve Location in distant place	1. remote-transmitting potentiometer is faulty 2. the set screw for gear of the potentiometer loses	1. check and replace the potentiometer 2. screw down the set screw for gear of the potentiometer



## > Hydraulic Control Valve Series

- Float control valve
- Check valve
- Solenoid control valve
- Float control valve
- Flow control valve
- Altitude control valve
- Pressure reducing valve
- Pressure sustaining/relief valve
- Surge anticipating valve
- Pressure reducing and sustaining valve



- ① Body in ductile cast iron GJS-500-7
- ② Shaft, obturator and seat body are in stainless steel

- ③ Diaphragm in rubber + nylon fiber (tested for 1,000,000 cycles)
- ④ Internal/External bolts are in stainless steel(A2-A4)



Solutions at the top for high performance product and long lasting valve.

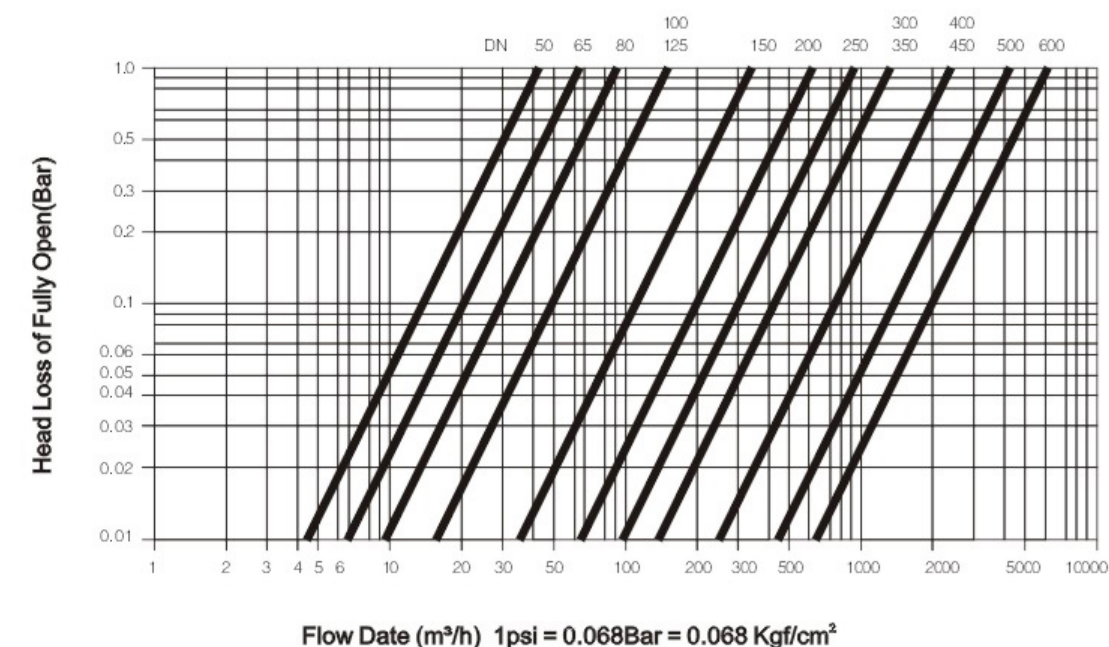


Heavy duty corrosion protection by FBE epoxy coating 300 microns

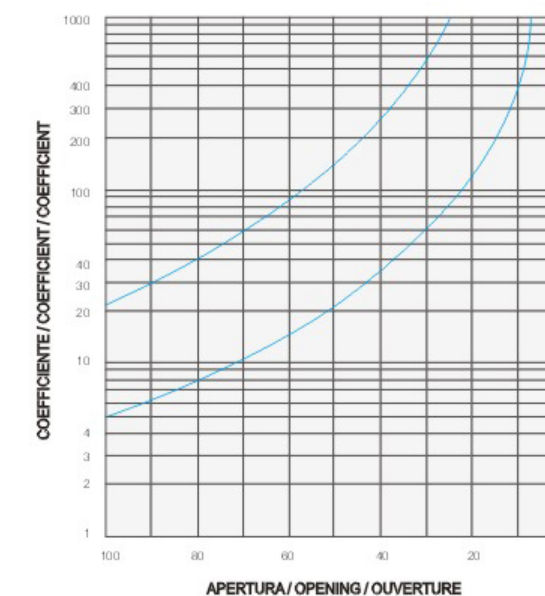
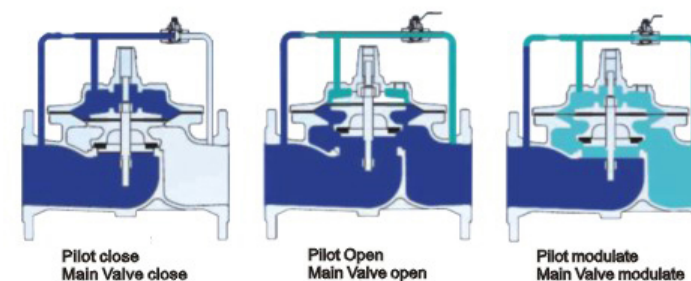
Replaceable seat in stainless steel.



Flow chart of fully opened main valve

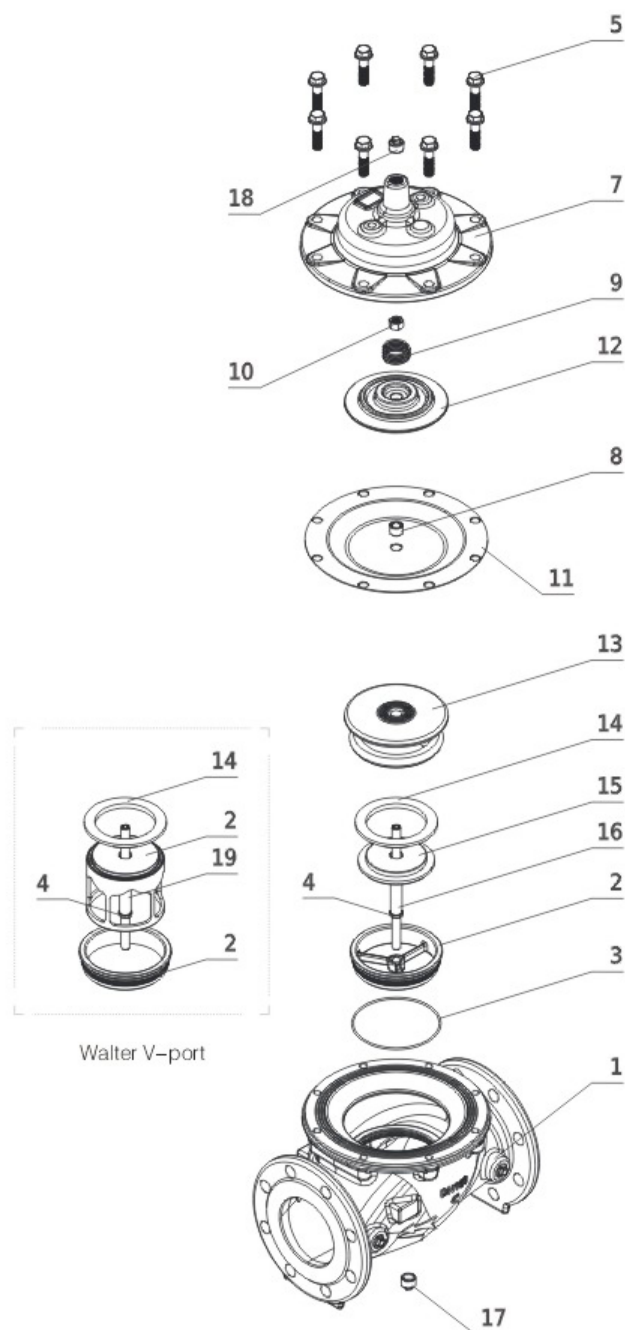


Pilot is the brain of main valve





Hydraulic control valve



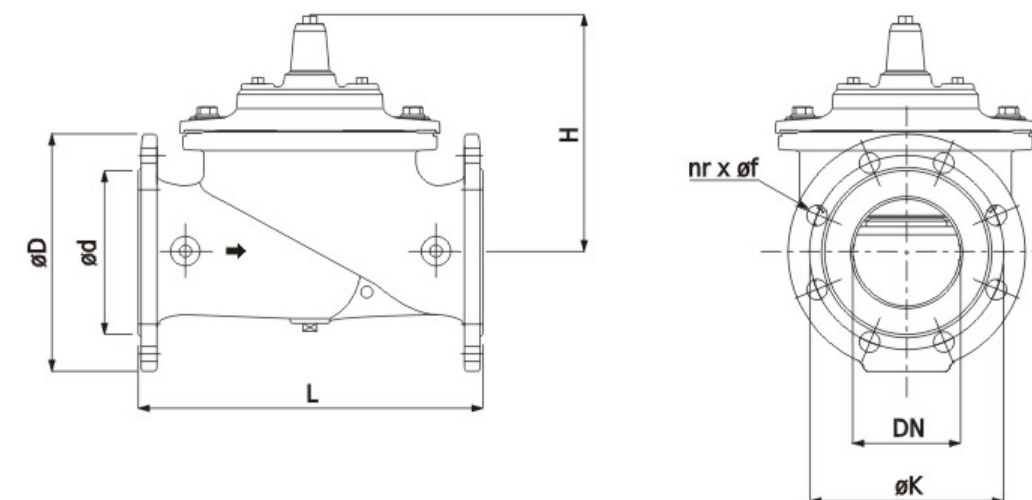
No.	Part Name	Material	
1	Body	Ductile iron	EN GJS-500-7
2	Seat	Stainless steel	AISI 304
3	O-ring	Rubber	NBR
4	O-ring	Rubber	NBR
5	Bolts	Stainless steel	A1
6	Washer	Stainless steel	A2
7	Cover	Ductile iron	ENGJS-500-7
8	Bush	Brass	CuZn40Pb4
9	Spring	Stainless steel	AISI 304
10	Nut	Stainless steel	A2
11	Diaphragm	Rubber	EPDM+Nylon
12	Supportring	Ductile iron	EN GJS-500-7
13	Obturator	Ductile iron	EN GJS-500-7
14	Main gasket	Rubber	EPDM
15	Sealring	Stainless steel	AISI 304
16	Stem	Stainless steel	AISI 304
17	Plug	Stainless steel	AISI 304
18	Plug	Stainless steel	AISI 304
19	V-port	Stainless steel	AISI 304

Specification

- Valve comply with EN 1074-5, BS EN 1567
- Flanges designed to BS EN 1092-2, ISO 7005-2, ANSI
- Working pressure PN 10/16/25, CL125/150/300
- Face to Face BS EN558-1, ISO 5752 S1
- 250µm Epoxy Resin coating thickness

Hydraulic control valve

Fig.8010-8080 DN50-1000 PN10-16-25

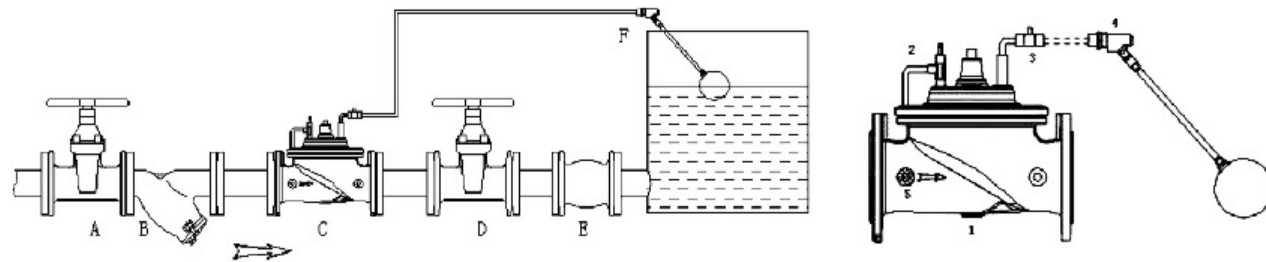


EN558			EN1092-2 PN10					EN1092-2 PN16					EN1092-2 PN25					Weight
DN	L	H	ΦD	ΦK	Φf	n	Φd	ΦD	ΦK	Φf	n	Φd	ΦD	ΦK	Φf	n	Φd	kg
50	230	139	165	125	19	4	99	165	125	19	4	99	165	125	19	4	99	14
65	290	159	185	145	19	4	118	185	145	19	4	118	185	145	19	8	118	19
80	310	179	200	160	19	8	132	200	160	19	8	132	200	160	19	8	132	23
100	350	214	220	180	19	8	156	220	180	19	8	156	235	190	23	8	156	32
150	480	333	285	240	23	8	211	285	240	23	8	211	300	250	28	8	211	68
200	600	407	340	295	23	8	266	340	295	23	12	266	360	310	28	12	274	125
250	730	476	395	350	23	12	319	405	355	28	12	319	425	370	31	12	330	200
300	850	526	445	400	23	12	370	460	410	28	12	370	485	430	31	16	389	260
400	1100	624	565	515	28	16	480	580	525	31	16	480	620	550	37	16	503	560
500	1250	720	670	620	28	20	582	715	650	34	20	609	730	660	41	20	609	880
600	1450	835	780	725	31	20	682	840	770	37	20	720	845	770	41	20	720	1200
800	1850	1110	1015	950	34	24	901	1025	950	41	24	901	1085	990	50	24	928	1510
1000	2250	1350	1230	1160	37	28	1112	1255	1170	44	28	1112	1320	1210	57	28	1112	2268



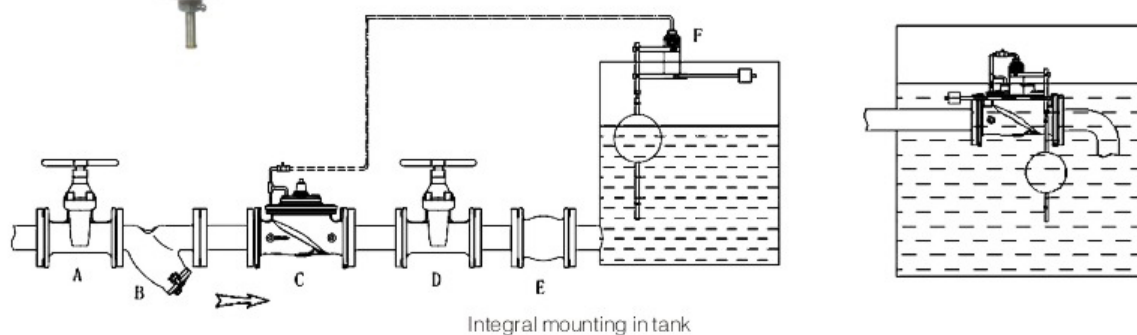
### Float control valve F8010

Float valve is a modulating valve that accurately controls the liquid level in tanks. This valve is designed to open fully when the liquid level reaches a preset low point, and close drip-tight when the level reaches a preset high point. The float pilot is remotely installed inside of reservoir, or integrally installed with main valve for size less than 4 inch.



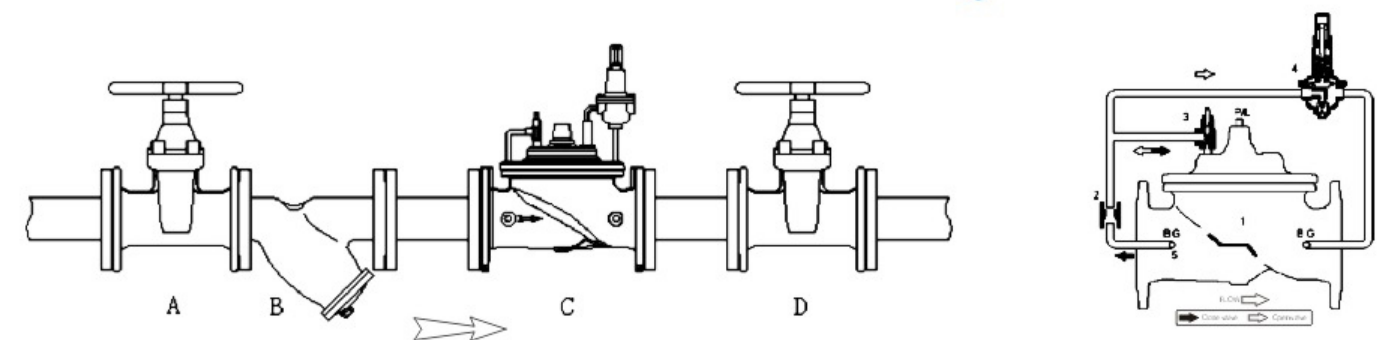
### Float control valve F8011

Float valve is a non-modulating valve that accurately controls the liquid level in tanks. This valve is designed to open fully when the liquid level reaches a preset low point, and close drip-tight when the level reaches a preset high point. The float pilot is remotely installed inside of reservoir, or integrally installed with main valve for size less than 4 inch. The high and low point can be adjusted on the spot. The max adjustable distance is 0.5m, if need more, consult factory.



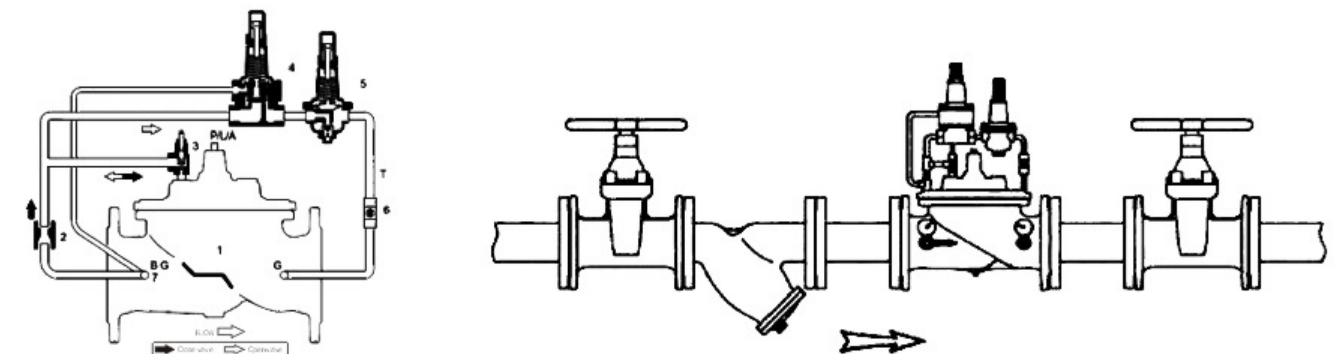
### Pressure reducing valve F8020

Pressure reducing valve automatically reduces a higher inlet pressure to a steady lower downstream pressure, regardless of changing flow rate and/or varying inlet pressure. The valve is an accurate, pilot-operated regulator capable of holding downstream pressure to a pre-determined limit. When downstream pressure exceeds the pressure setting of the control pilot, the main valve and pilot valve close drip-tight.



### Pressure reducing and sustaining valve F8025

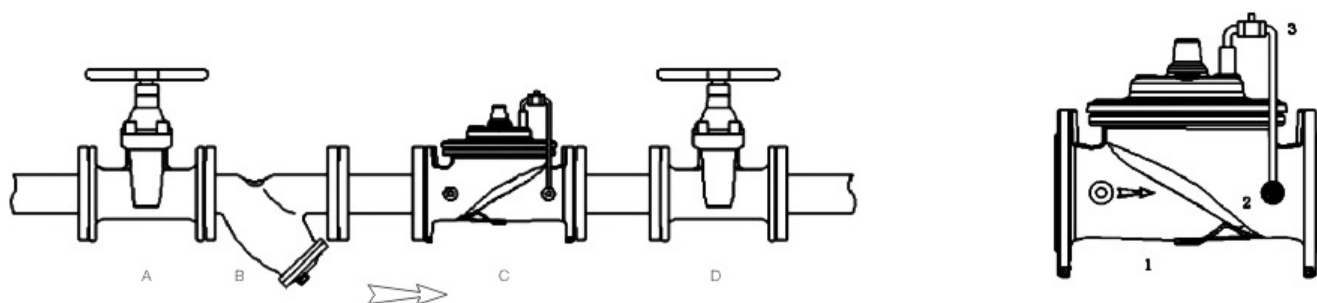
Pressure reducing and sustaining valve automatically perform two independent functions. It maintains a constant downstream pressure, regardless of fluctuating demand and sustains the upstream pressure to a pre-determined minimum. The pressure reducing pilot responds to slight variations in downstream pressure and immediately repositions the main valve to maintain the desired downstream pressure. The pressure sustaining pilot is normally held open by the upstream pressure and close when the pressure drops to the set point. The valve is usually used in lower elevation pipeline to guarantee prior use of higher elevation area.





### Check valve F8030

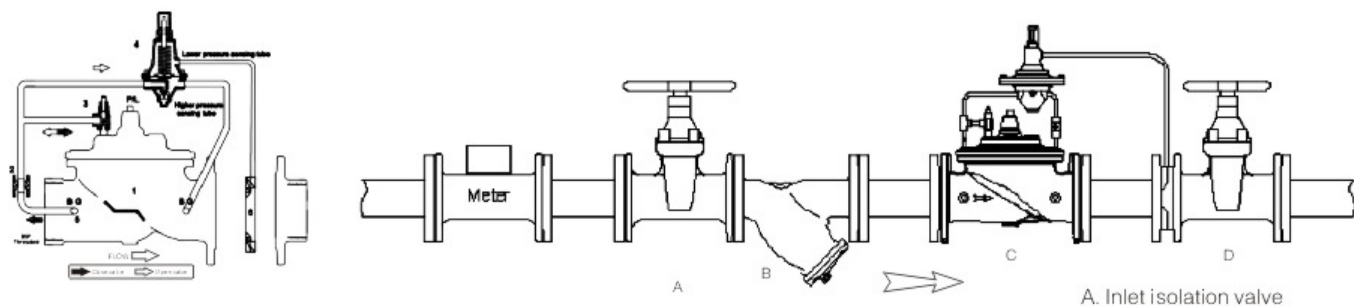
Check valve is a hydraulically operated No-slam check valve. This valve opens when the pressure at the inlet exceeds this discharge pressure. A gradual rate of opening prevents sudden opening surges. When a pressure reversal occurs the higher downstream pressure is applied to the cover chamber through the control tube lines. And the valve closes drip tight. This valve is ideally suited for use where a positive shutoff is required. The rubber disc assures tight sealing. The velocity of Open/shutoff can be controlled by the ball valve on the outlet control tube line.



### Flow control valve F8040

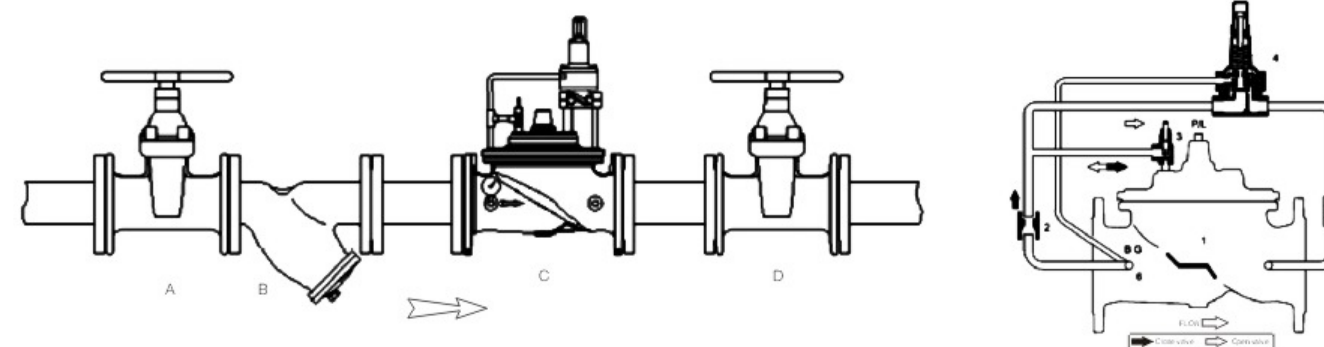
Flow control valve prevents excessive flow by limiting flow to a preselected maximum rate, regardless of changing line pressure. It is a hydraulically operated, pilot controlled, diaphragm valve. The pilot control responds to the differential pressure produced across an orifice plate installed downstream of the valve. Accurate control is assured as very small changes in the controlling differential pressure produce immediate corrective action of the main valve. Flow rate adjustments are made by turning an adjusting screw on the pilot control.

The valve includes an orifice plate with a holder that should be installed one to five pipe diameters downstream of the valve. To guarantee accurate control of flow rate, there are several orifice plate with different hole optional for each size, see the additional table for selection of orifice.



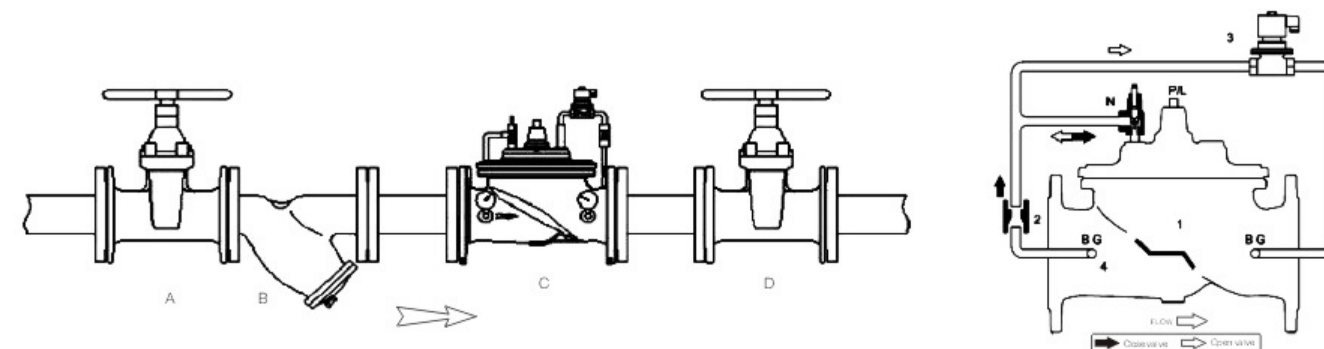
### Pressure sustaining/relief valve F8050

Pressure sustaining/relief valve is a hydraulically operated, pilot-controlled, modulating valve designed to maintain constant upstream pressure within close limit. This valve can be used for pressure relief, pressure sustaining, and back pressure function in a by-pass system. In operation, the valve is actuated by line pressure through a pilot control system, opening fast to maintain steady line pressure but closing gradually to prevent surges. Operation is completely automatic and pressure settings may be easily changed by adjusting screw on top of the pilot.



### Solenoid control valve F8060

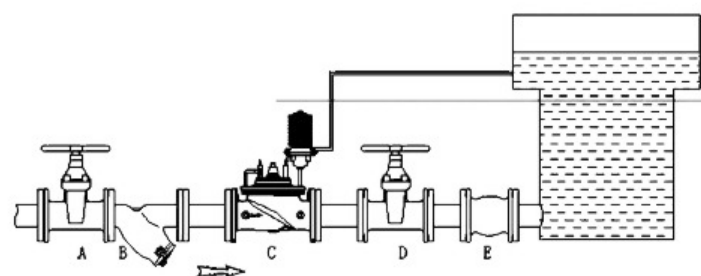
Solenoid control valve is an on-off control valve that either opens or closes upon receiving an electrical signal to the solenoid pilot control. This valve consists of a main valve and a two-way solenoid valve that alternately applies pressure to or relieves pressure from the diaphragm chamber of the main valve. It is furnished either normally open (de-energized solenoid to open) or normally closed (energized solenoid to open). Industrial uses for the solenoid control valve are many and include accurate control of process water for batching, mixing, washing, blending or other on-off type uses. Liquid level control can be provided by using a float switch or electrode probe which sends an electrical signal to open or close the valve as needed.





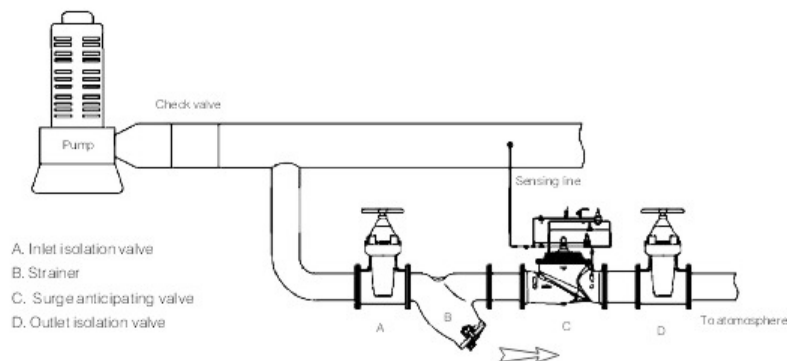
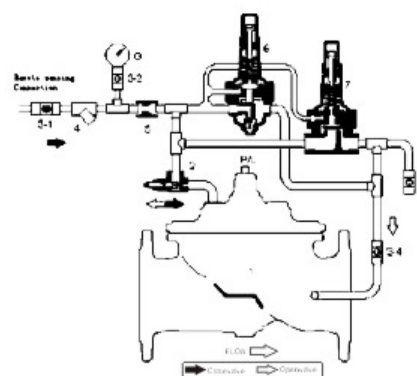
### Altitude control valve F8015

The Altitude valve controls the high water level in reservoirs. Without the need for floats or other devices. It remains fully open until the shut-off level is reached. This valve is designed for one-way flow only. This valve is hydraulically operated and pilot controlled. The pilot control operates on the differential in forces between a spring load and the water level in the reservoir. The desired high water level is set by adjusting the spring force. The pilot control measures the reservoir head through a customer supplied sensing line connected directly to the reservoir.



### Surge anticipating valve F8055

Surge Anticipator valve is indispensable for protecting pumps, pumping equipment and all applicable pipelines from dangerous pressure surges caused by rapid changes of flow velocity within a pipeline. When a power failure take place, the abrupt stopping the pump can cause dangerous surges in the system which could result in severe equipment damage. Power failure to a pump will usually result in a down surge in pressure, followed by an up surge in pressure. The surge control valve opens on the initial low pressure wave, diverting the returning high pressure wave from the system. In effect, the valve has anticipated the returning high pressure wave and is open to dissipate the damage causing surge. The valve will then close slowly without generating any further pressure surge.



- A. Inlet isolation valve
- B. Strainer
- C. Surge anticipating valve
- D. Outlet isolation valve

### Pilot valve



- Cap
- Adjusting Bolt
- Jam Nut
- Bonnet
- Spring Sasher
- Spring
- Diaphragm Jam Kits
- Diaphragm
- Core Kits
- Body
- Plug



- Adjust Bolt
- Adjust Seat
- Jam Nut
- Bonnet
- Spring Washer
- Spring
- Diaphragm Jam Kits
- Diaphragm
- Core Kits
- Middle Chamber
- Body

Testing line—ensure the safety, reliable and stability of each valve

