

# WEIZIDOM



**WEIZIDOM GROUP**

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

销售热线：+86-13849013722

www.wdsolution.com  
www.wsdvalves.com

www.facebook.com/hawsd

Group headquarters: Central Plains E-Commerce Building, Zhengzhou South City, China  
Branch Factory: Tianjin, Anhui, Shandong, Lianyungang, Wenzhou  
Branch Company in Overseas: Tanzania, Zambia, Kenya in Africa

Sales Hotline: +86-13849013722

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**Valve & Pipe Fittings for Water System**

**WEIZIDOM GROUP**



# WEIZIDOM GROUP

## Enterprise Social Responsibility

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

**WEIZIDOM 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 "WEIZIDOM" 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.





# WEIZIDOM GROUP

## Development History



### 2010

WESDOM was established

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

### 2015

WESDOM established the first overseas branch

June 2013, WESDOM passed ISO and other international certifications;

### 2016

WESDOM products are exported to overseas regions and markets

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

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;

### 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;

### 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;

### 2021

Kenya branch is established, WESDOM products occupy the African market

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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.

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.

To be continued...





# WEIZIDOM 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

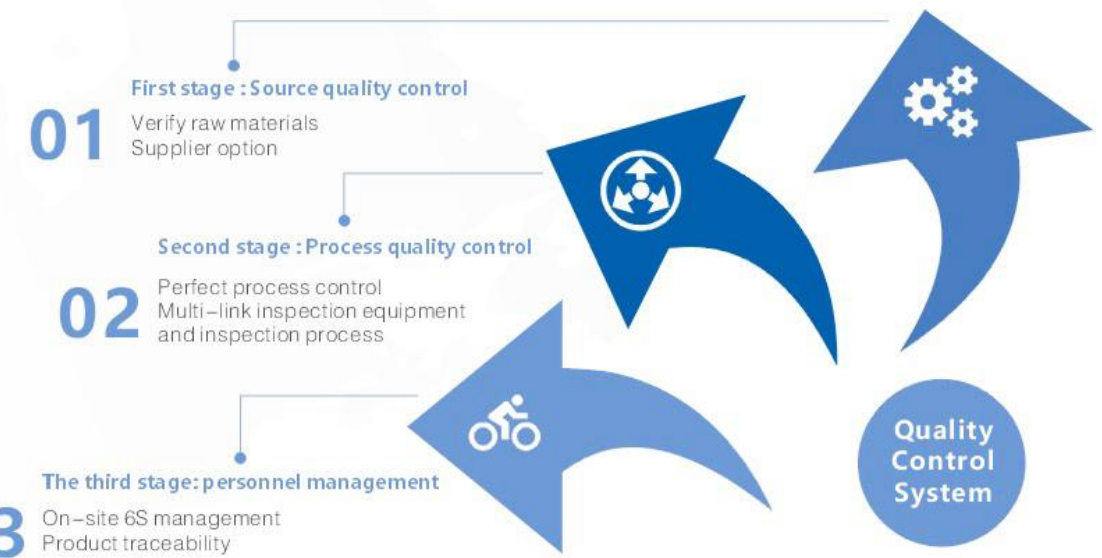
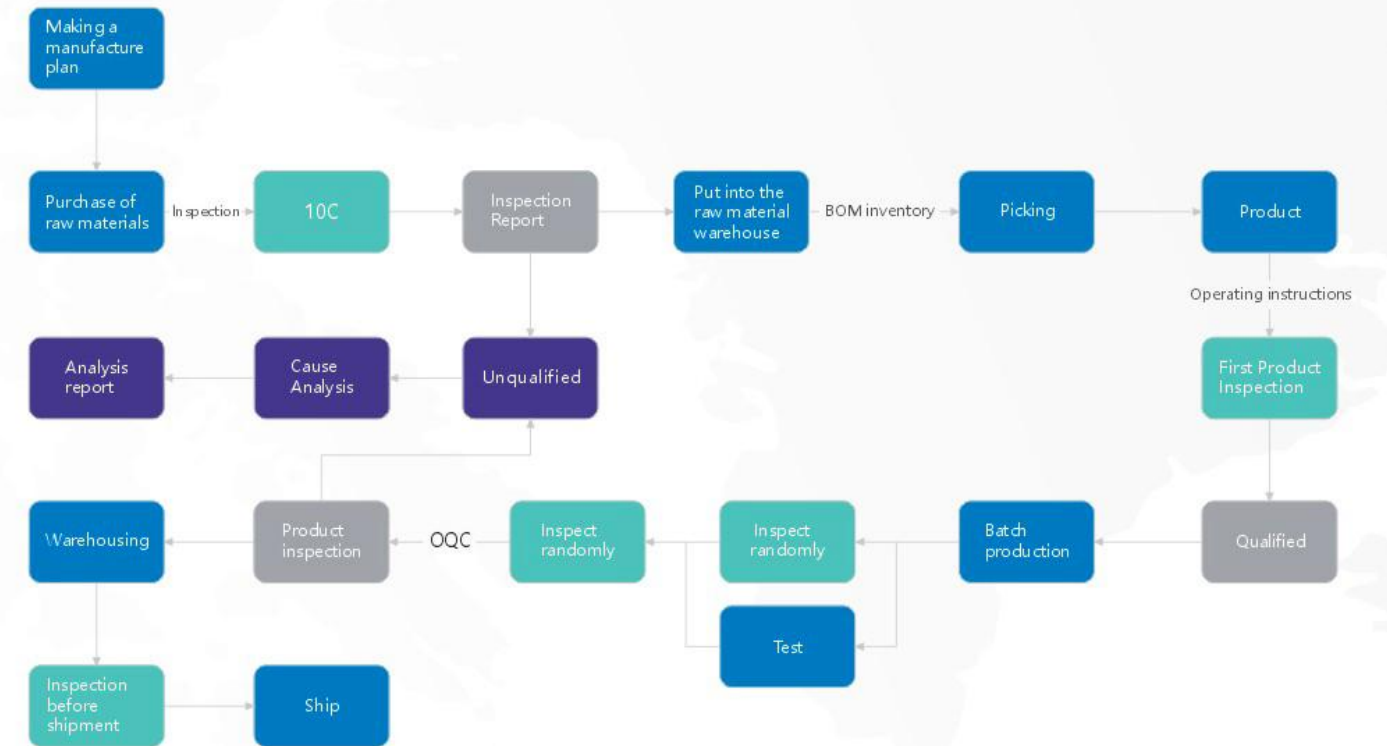


# WEIZIDOM GROUP

## Company Qualification



# Product Quality Control Process





# WEIZIDOM 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



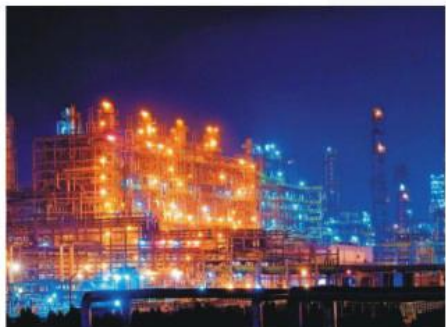
### Steel

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.

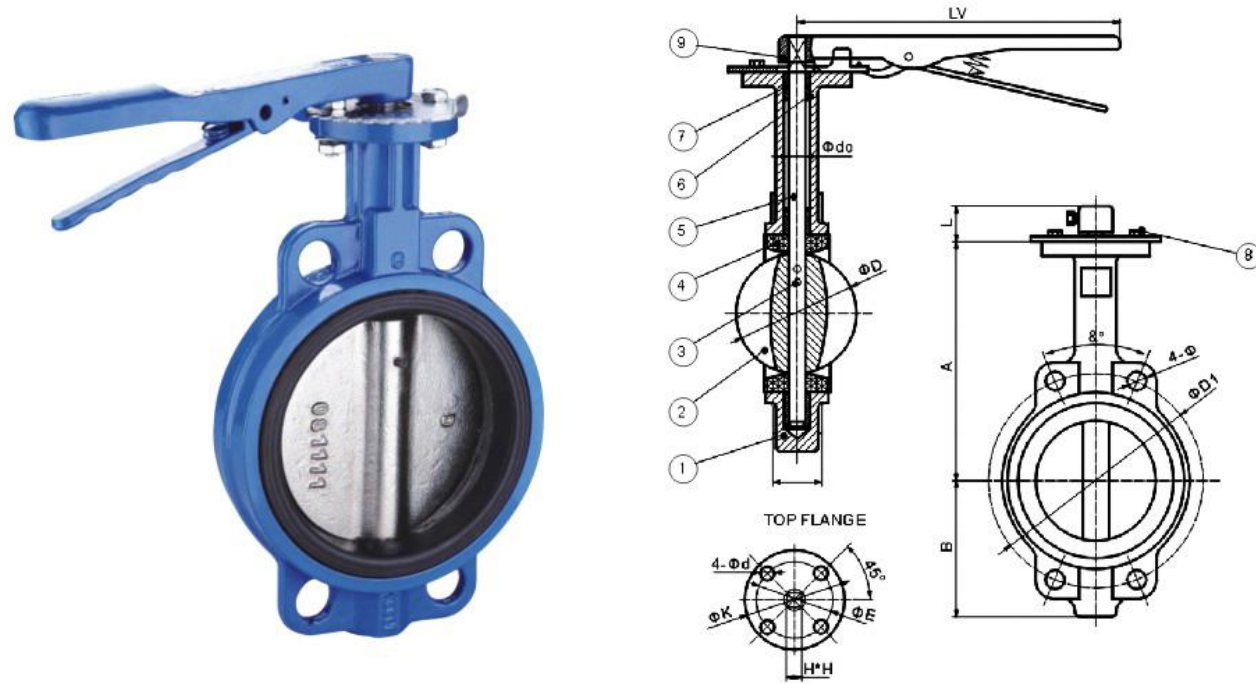


There are two "O" rings in the bottom seal, one is between the body and stem, another is between the body and bottom seal. The sealing performance is improved with double protection.





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	-

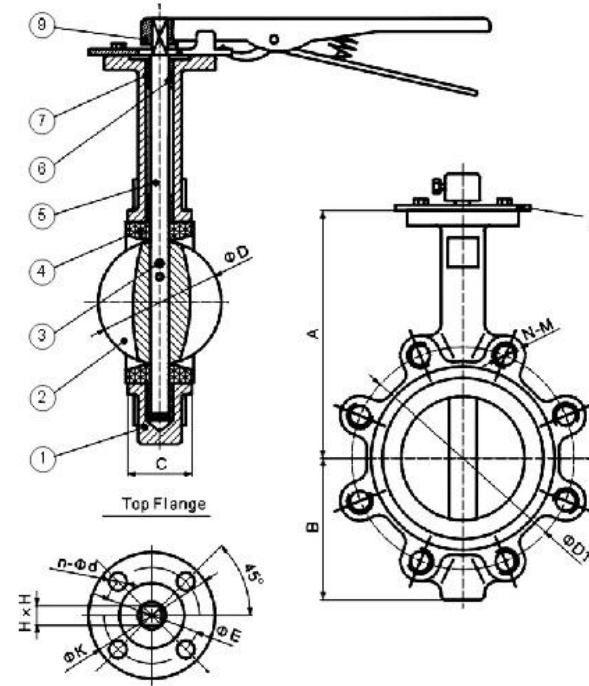
**Dimensions**

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:**

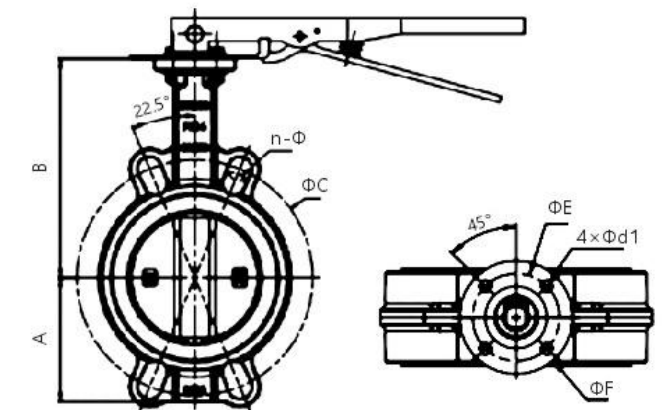
Size: DN50-DN600(2"-24")  
Pressure: PN10/16  
Work Temperature: -5°C~85°C  
Seat Test: 1.1 x PN  
Shell Test: 1.5 x PN  
Medium: Clean Water, Sewage

**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

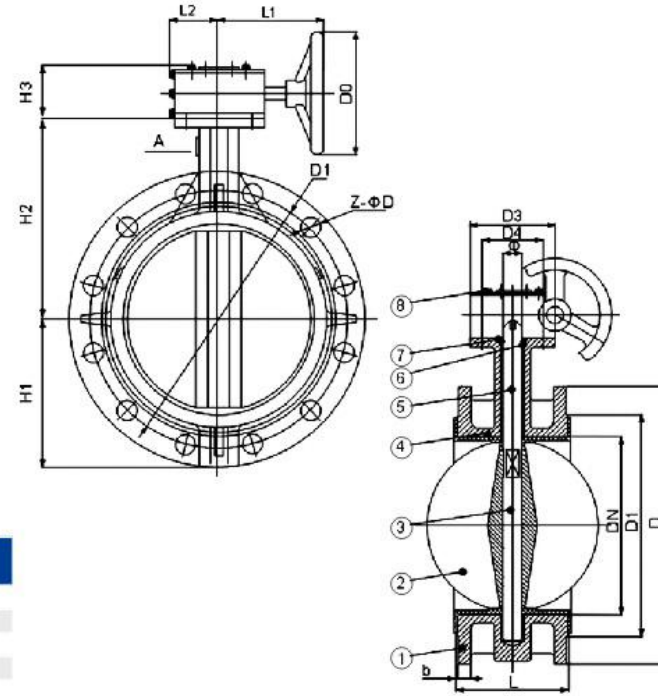


**Dimension (mm)**

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	Stem	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°C, EPDM 0-120°C
- Working pressure: PN10-16, Class 125-150
- Suitable medium: Water
- Coating: Epoxy coating with thickness ≥ 250 μm

**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

**Product Standard:**

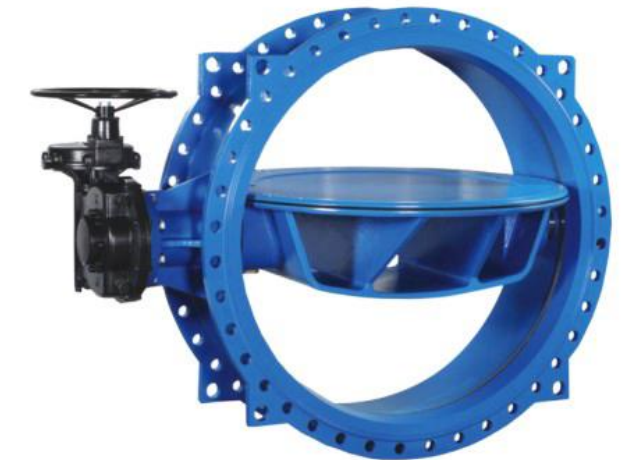
Desing: BS 5155, API 609, BS EN593  
 Flanges: BS 4504, DIN 2501, ASME 16.1, JIS 5K/10K  
 Face to face: DIN 3202, BS EN558-1, ISO 5752,  
 ASME B16.1  
 Top Flange: ISO 5211  
 Test: BS EN12266, API 598

**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

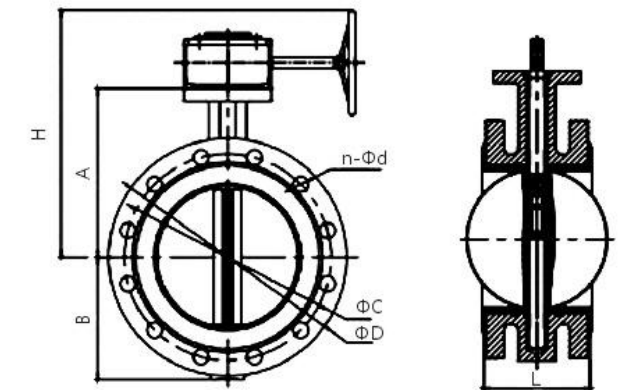
**Features:**

- 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



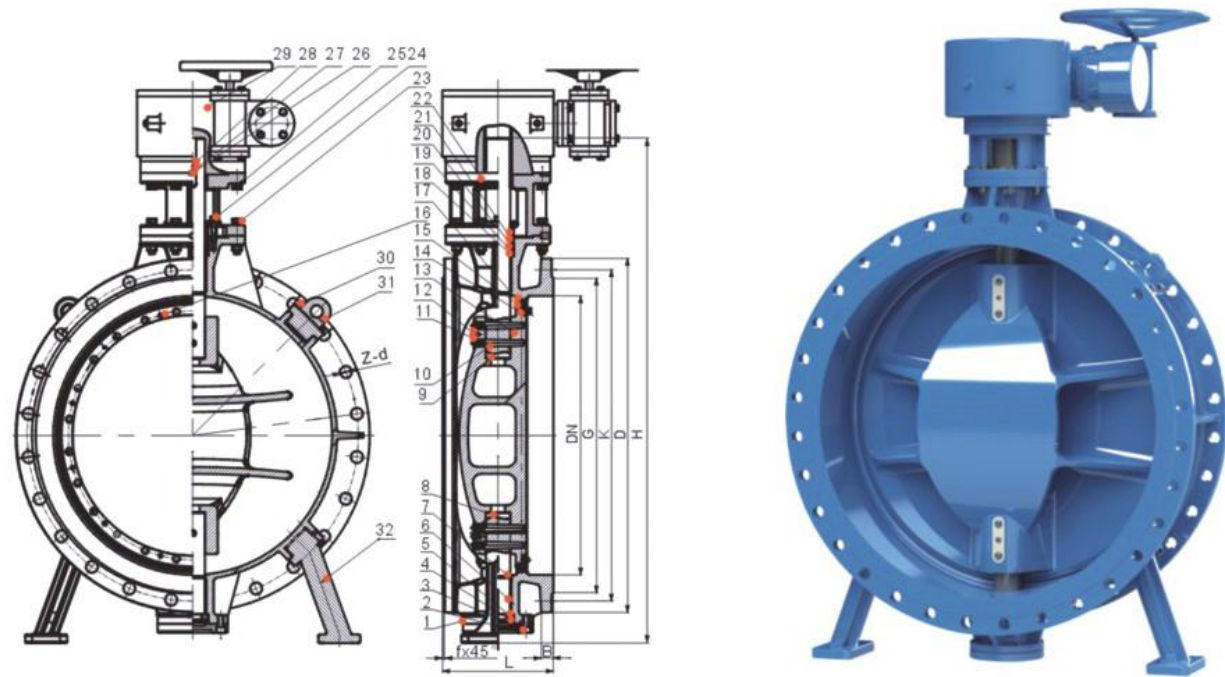
**Dimension (mm)**

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



## Double eccentric flange butterfly valve

DN100–DN1800 (DIN/BS)



### Application Standards

- Design standard: GB12238, BS 5155, EN593 and API 609;
- 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  $\geq 250\mu\text{m}$ .



## Double eccentric flange butterfly valve

## Butterfly Valve Series

### 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 internal thread	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

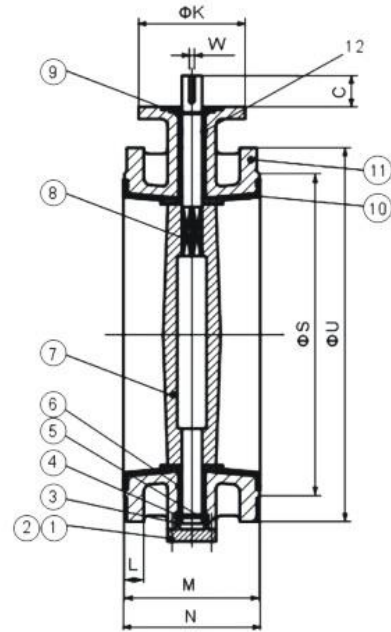
No.	Part name	Material
17	Seal ring	NBR/EPDM
18	Retaining ring	PTFE
19	'V' ring	NBR
20	Washer	PTFE
21	Cover	Ductile iron
22	Inspection port	Ductile iron
23	Bolt, Spring washer, Washer, Nut	304, 65Mn, 304, 316
24	Bolt, Washer	304, 304
25	Bolt, Spring washer, Washer	304, 65Mn, 304
26	Cylindrical Pin	2Cr13
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- $\Phi$ d		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- $\Phi$ 19	8- $\Phi$ 19	19	19
5"	125	200	140		250	250	210	210	184	184	3	8- $\Phi$ 19	8- $\Phi$ 19	19	19
6"	150	210	140	127	285	285	240	240	211	211	3	8- $\Phi$ 23	8- $\Phi$ 23	19	19
8"	200	230	152	152	340	340	295	295	266	266	3	8- $\Phi$ 23	12- $\Phi$ 23	20	20
10"	250	250	165	203	395	405	350	355	319	319	3	12- $\Phi$ 23	12- $\Phi$ 28	22	22
12"	300	270	178	203	445	460	400	410	370	370	4	12- $\Phi$ 23	12- $\Phi$ 28	24.5	24.5
14"	350	290	190	203	505	520	460	470	429	429	4	16- $\Phi$ 23	16- $\Phi$ 28	24.5	26.5
16"	400	310	216	203	565	580	515	525	480	480	4	16- $\Phi$ 28	16- $\Phi$ 31	24.5	28
18"	450	330	222	203	615	640	565	585	530	548	4	20- $\Phi$ 28	20- $\Phi$ 31	25.5	30
20"	500	350	229	203	670	715	620	650	582	609	4	20- $\Phi$ 28	20- $\Phi$ 34	26.5	31.5
24"	600	390	267	203	780	840	725	770	682	720	5	20- $\Phi$ 31	20- $\Phi$ 37	30	36
28"	700	430	292	-	895	910	840	840	794	794	5	24- $\Phi$ 31	24- $\Phi$ 37	32.5	39.5
32"	800	470	318	-	1015	1025	950	950	901	901	5	24- $\Phi$ 34	24- $\Phi$ 41	35	43
36"	900	510	330	305	1115	1125	1050	1050	1001	1001	5	28- $\Phi$ 34	28- $\Phi$ 41	37.5	46.5
40"	1000	550	410	-	1230	1255	1160	1170	1112	1112	5	28- $\Phi$ 37	28- $\Phi$ 44	40	50
48"	1200	630	470	381	1455	1485	1380	1390	1328	1328	5	32- $\Phi$ 41	32- $\Phi$ 50	45	57
56"	1400	-	530	-	-	1675	-	1590	1530	1530	5	-	48- $\Phi$ 49	-	46
64"	1600	-	600	-	-	1915	-	1820	1750	1750	5	-	44- $\Phi$ 49	-	49
72"	1800	-	670	-	-	2115	-	2020	1950	1950	5	-	40- $\Phi$ 49	-	53



DN50-DN1200

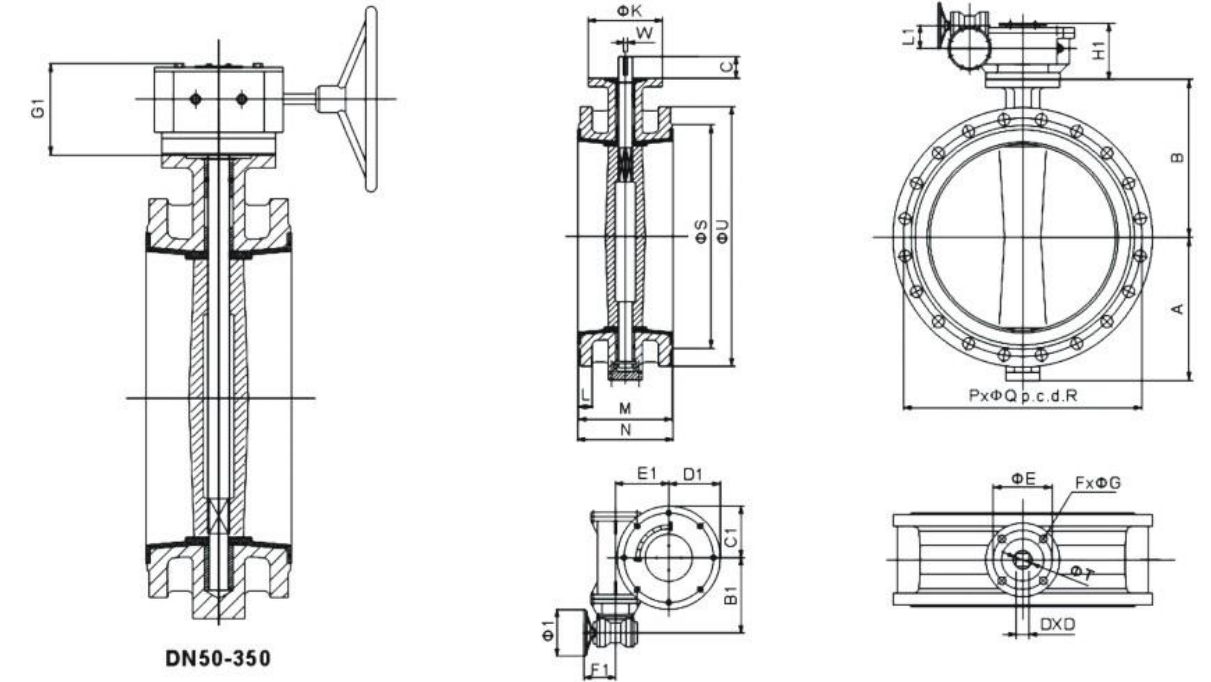


**Application standards**

- 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

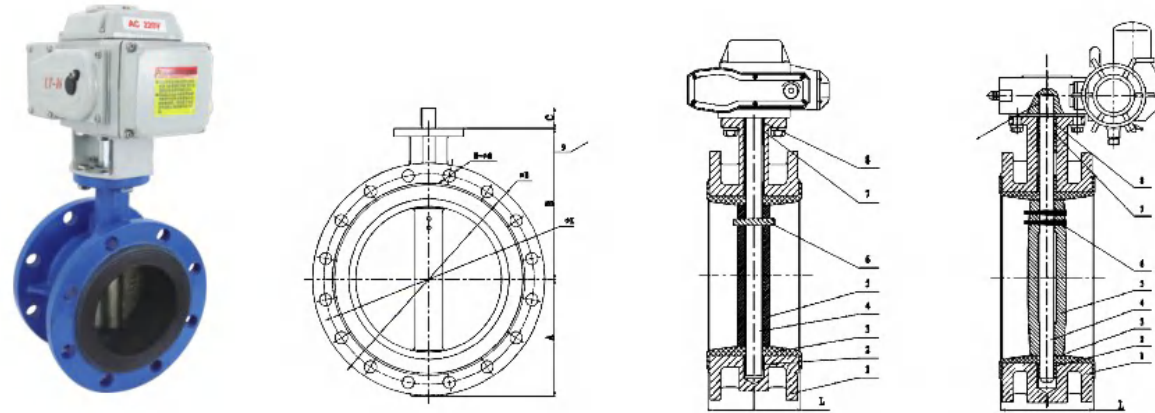


**Dimensions**

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 x 9		Φ 12.6
65	93	130	32	65	50	4	7	4	19	145	19	112	115	185	118	9 x 9		Φ 12.6
80	100	145	32	65	50	4	7	8	19	160	19	114	117	200	132	9 x 9		Φ 12.6
100	114	155	32	90	70	4	10	8	19	180	19	127	130	220	156	11 x 11		Φ 15.77
125	125	170	32	90	70	4	10	8	19	210	19	140	143	250	184	14 x 14		Φ 18.92
150	143	190	32	90	70	4	10	8	23	240	19	140	143	285	211	14 x 14		Φ 18.92
200	170	205	45	125	102	4	12	12	23	295	20	152	155	340	266	17 x 17		Φ 22.1
250	198	262	45	120	102	4	12	12	28	355	22	165	168	405	319	22 x 22		Φ 28.45
300	223	280	45	125	102	4	12	12	28	410	24.5	178	182	460	370	22 x 22		Φ 31.6
350	270	310	45	125	102	4	12	12	28	470	26.5	190	194	520	429	22 x 22		Φ 31.6
400	315	260	72	175	140	4	18	18	31	525	28	216	220	580	480		12	Φ 37.9
450	340	375	72	175	140	4	18	18	31	585	30	222	227	640	548		12	Φ 42.86
500	355	430	77	175	140	4	18	18	34	650	31.5	229	234	715	609		12	Φ 45.72
600	410	500	82	210	165	4	23	23	37	770	36	267	272	840	720		16	Φ 53.98
700	478	560	82	300	254	8	18	18	37	840	39.5	292	299	910	794		18	Φ 63.35
800	529	620	82	300	254	8	18	18	41	950	43	318	325	1025	901		18	Φ 63.35
900	584	665	118	300	254	8	18	18	41	1050	46.5	330	337	1125	1001		20	Φ 75
1000	657	735	140	300	254	8	18	18	44	1170	50	410	417	1255	1112		22	Φ 85
1200	779	917	150	350	298	8	22	22	50	1390	57	470	478	1485	1328		28	Φ 105



## Double flange electric soft seal butterfly valve



### 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	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 Class125 DIN2501 PN10/PN16
Top Flange	ISO5211

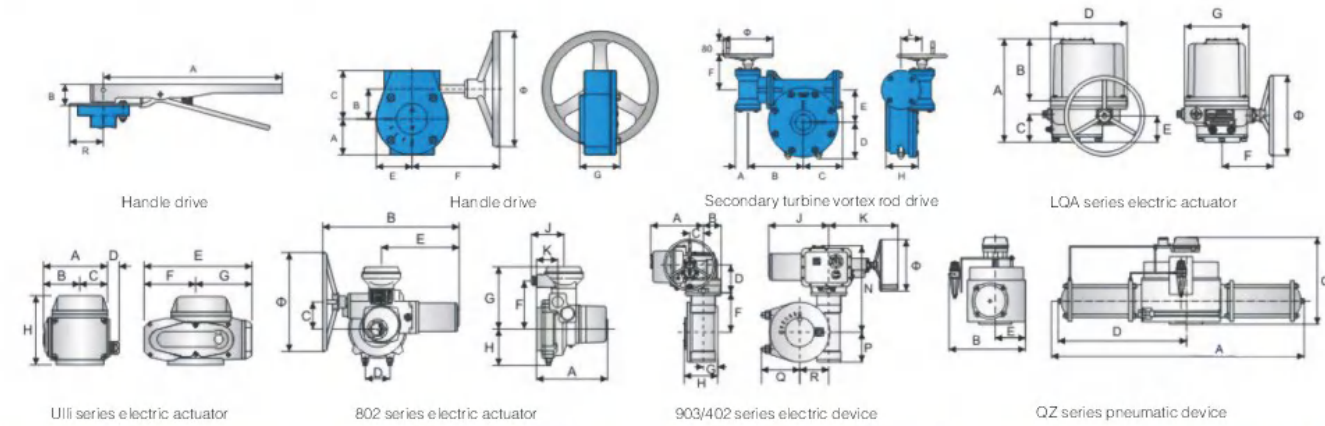
### Main external and connecting dimensions(mm)

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

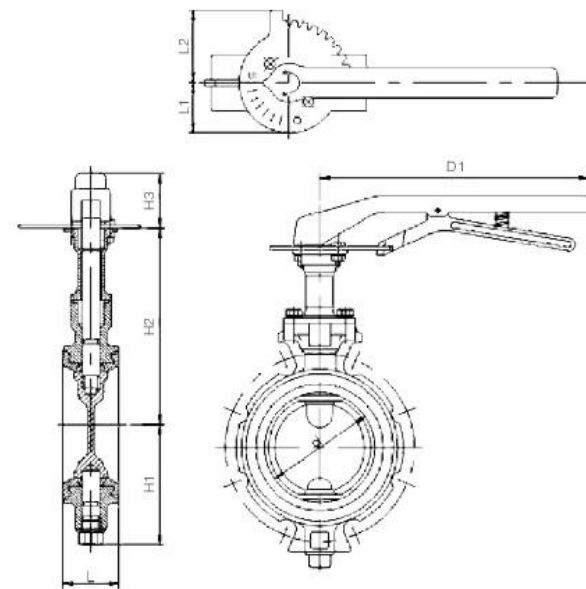
### Electric device parameters table



Type	Size	Max. Torque Output (N.m)	Motor Power (W)	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									13
3D-120	DN300-350				81	80	118		81	227	83									15
3D-30250	DN400-500				56.5	178.5	121	115	104	174										56.9
3D-30400	DN600				56.5	197.5	142	144	130	174		125.5								300
LQA5-1	DN50-80	50	16	15	255	154	70	191	65	126	160									200
LQA10-1	DN100	100	30	15	255	154	70	191	65	126	160									200
LQA20-1	DN125-150	200	60	15	255	154	70	191	65	126	160									200
LQA40-1	DN200	400	90	15	302	171	96	240	86	175	198									300
LQA80-1	DN250-300	800	180	15	302	171	96	240	86	175	198									300
BQ2 10-1	DN50-100	100	30	15	250	420	79	82	253	156	213	110	132	62						220
BQ2 20-1	DN125-150	200	60	15	250	420	79	82	253	156	213	110	132	62						220
BQ2 60-1	DN200-300	600	180	15	287	552	110	101	330	196	254	156	134	86						360
BQ2 120-1	DN350/PN10	1200	370	15	287	552	110	101	330	196	254	156	134	86						360
BQ2 150-0.5	DN400-450/PN10	1500	370	30	287	552	110	101	330	196	254	156	134	86						360
BQ2 250-1	DN600/PN10	2500	750	15	330	625	140	152	365	230	288	185	134	120						500
BQ2 500-0.5	DN600/PN10	5000	750	30	330	625	140	152	365	230	288	185	134	120						500
BQ2 1000-0.2	DN700-800/PN10	10000	1100	75																500
9033 6034026	DN1000/PN10		750	75	311	113	79	160		230	85	195	457	400	506	188	230	170		300
9033 6034026	DN1000/PN10		1100	50	311	113	79	160		230	85	195	457	400	506	188	230	170		300
9033 6034026	DN1000/PN10		1500	38	311	113	79	160		230	85	195	457	400	506	188	230	170		300
9033 6034026	DN1000/PN10		2200	25	311	113	79	160		230	85	195	457	400	506	188	230	170		300
9034 904027	DN900/PN16		1500	75	334	150	98	172		280	105	228	508	450	563	232	255	202		400
9034 904027	DN900/PN16		2200	50	334	150	98	172		280	105	228	508	450	563	232	255	202		400
9034 904027	DN900/PN16		3000	38	334	150	98	172		280	105	228	508	450	563	232	255	202		400
9034 1204027	DN1200/PN10		1500	75	334	150	98	172		280	105	228	508	450	563	232	255	202		400
9034 1204027	DN1200/PN10		2200	50	334	150	98	172		280	105	228	508	450	563	232	255	202		400
9034 1204027	DN1200/PN10		3000	38	334	150	98	172		280	105	228	508	450	563	232	255	202		400
9034 1204027	DN1200/PN10		4000	25	334	150	98	172		280	105	228	508	450	563	232	255	202		400
9035 2504028	DN120		3000	75	359	175	128	238		320	135	290	600	535	646	300	305	238		500
9035 2504028	DN120		4000	50	359	175	128	238		320	135	290	600	535	646	300	305	238		500
9035 2504028	DN120		5500	38	359	175	128	238		320	135	290	600	535	646	300	305	238		500
9035 2504028	DN120		7500	25	359	175	128	238		320	135	290	600	535	646	300	305	238		500
U11-5	DN50(2")-80(3")	50	10W/F	20	101	56	45	20	155	85	69	115								2.6
U11-10	DN100(4")-125(5")	100	23W/F	30	115	63	52	26	208	95	110	115								3.7
U11-25	DN150(6")-200(8")	250	45W/F	30	153	90	63	26	256	123	133									

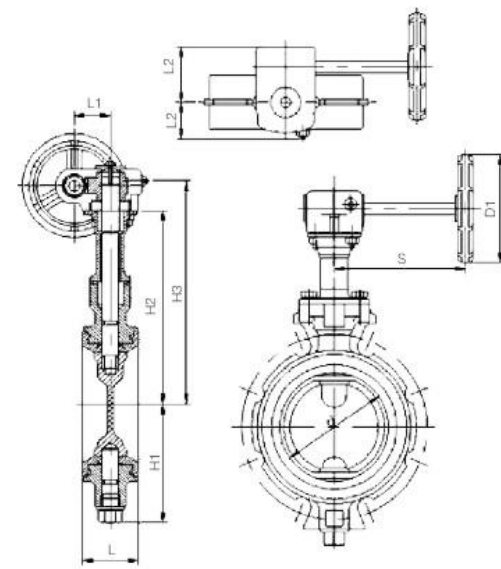


### Anti-knot dew butterfly valve



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"



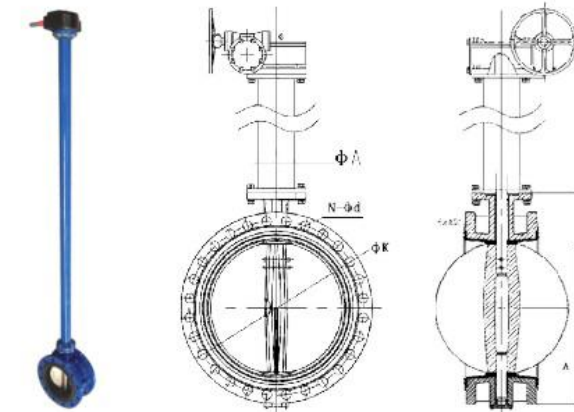
Main external and connecting dimensions(mm)

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		JIS 10K		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

### Double flange electric soft seal butterfly valve

### Resilient Soft Seated Gate Valve Series

#### 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.



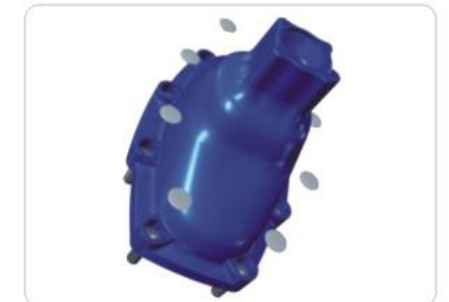
##### Wedge

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

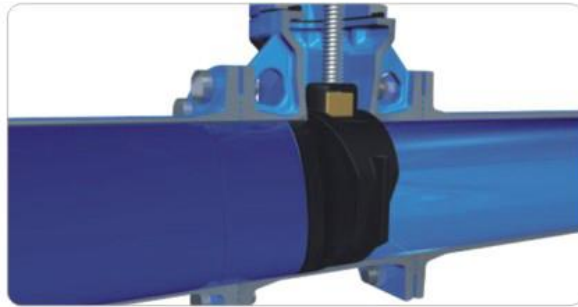
The grade 8.8 bolts connect the bonnet and the body, the bolts were covered by hot-melt glue which protect the bolts for anti-corrosion. The gasket between the bonnet and body is made of EPDM. The valve cover is with a retaining groove, make sure that the rubber gasket won't be extruded out under high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



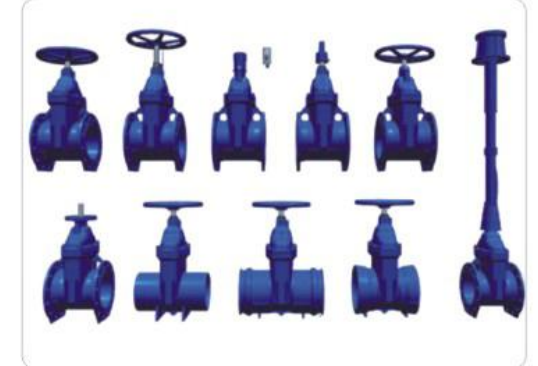
The rubber parts are made of high quality EPDM or NBR, which is in accordance with the drinking water requirements, avoiding the problem of the common rubber which is easy to breed microorganism. The products is not only approved by the national quality standards for drinking water related products, 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**

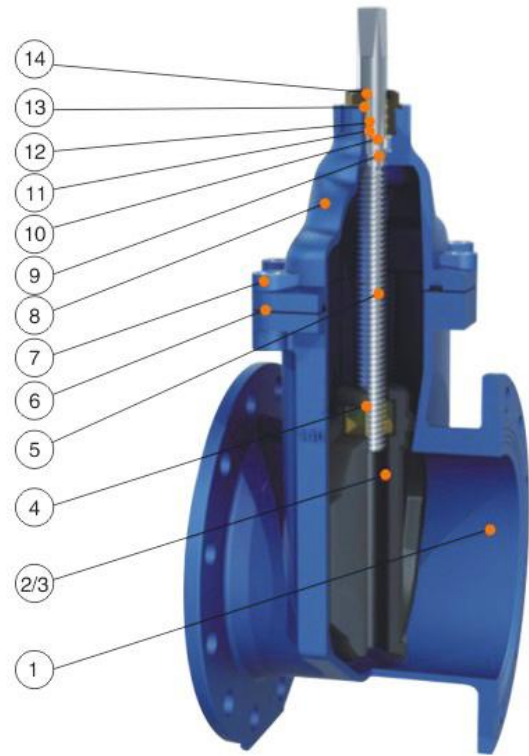
The seal ring can be replaced without cutting off the water, it's easier for the maintenance and reduce the maintenance time as much as possible. The friction between the brass bushing and the "O" type seal ring is small, and the seal can work for long time. The Max. Operate torque is under the control.





### NRS resilient soft seated flange gate valve

DN40–DN1000 (DIN/BS), 2"–12"(ANSI)



#### Application standards

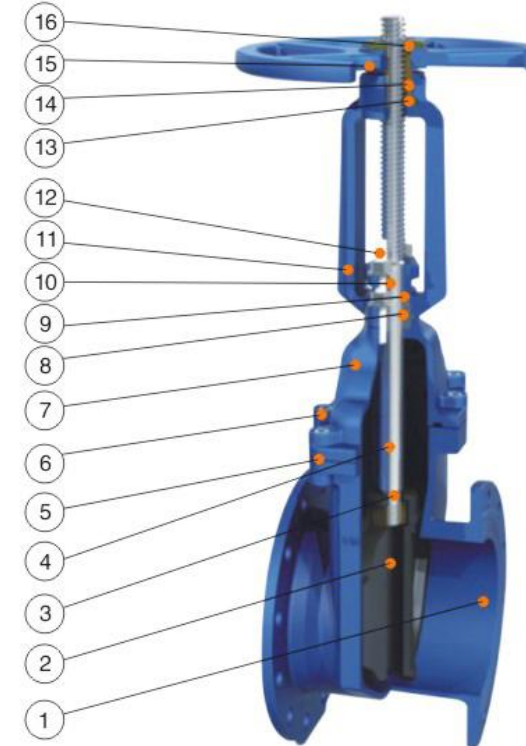
Design standard	EN1171:2002
Face to face	According to EN558–1 series 14(DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10
Flange drilling	According to EN1092 PN10–16, ASME B16.1–16.5
Size scope	DN40–DN1000(DIN/BS), 2"–12"(ANSI)
Working temperature	NBR 0–70°C, EPDM 0–80°C
Working pressure	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	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

### RS resilient soft seated flange gate valve

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 $\geq 250\mu\text{m}$

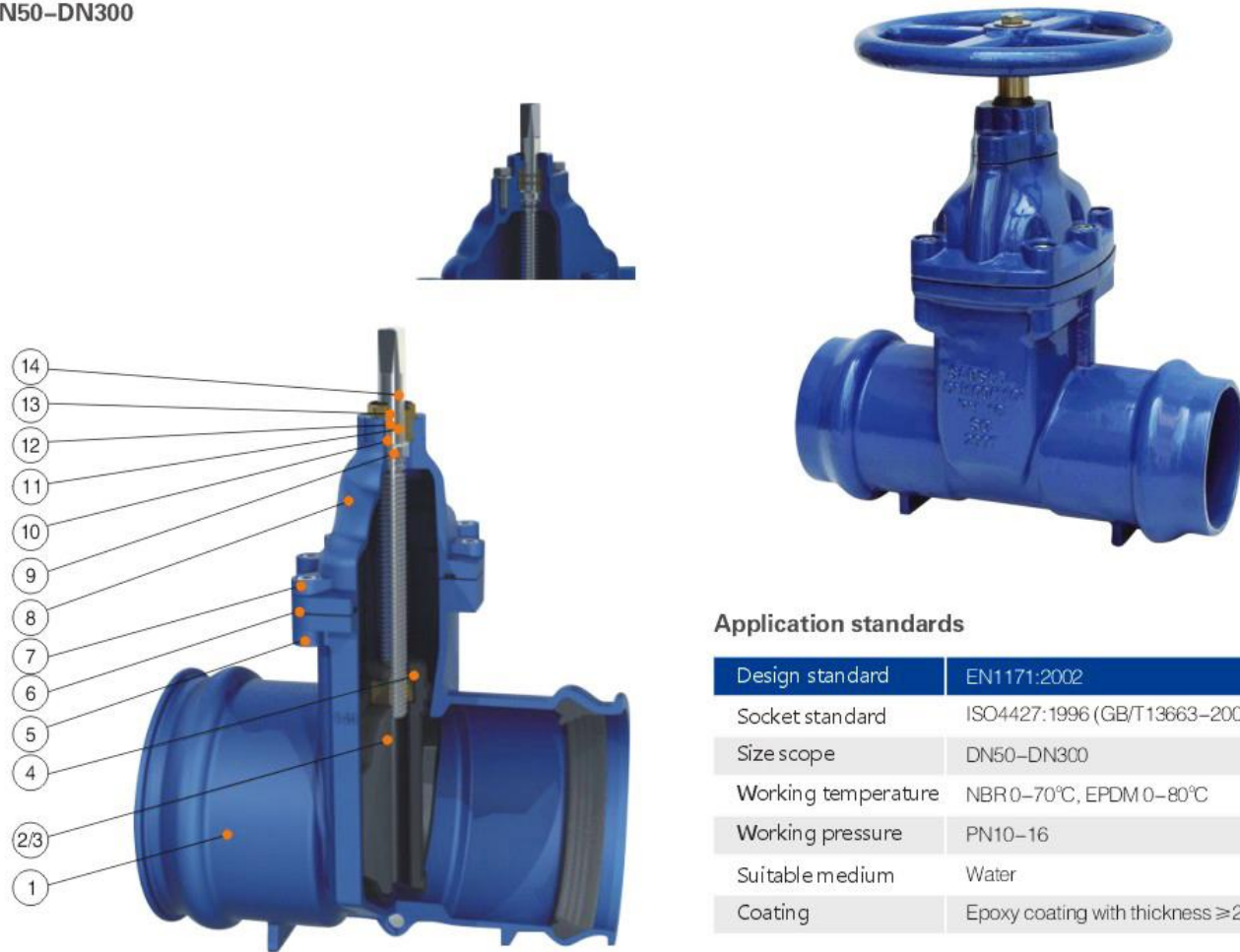
#### Parts list

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



### NRS resilient soft seated (PVC/PE PIPE) socket gate valve

DN50–DN300



#### Application standards

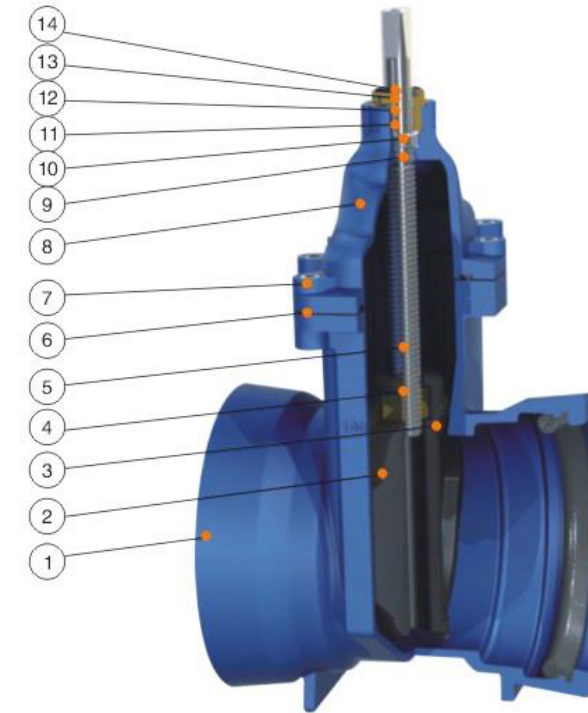
Design standard	EN1171:2002
Socket standard	ISO4427:1996 (GB/T13663–2000)
Size scope	DN50–DN300
Working temperature	NBR 0–70°C, EPDM 0–80°C
Working pressure	PN10–16
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

#### 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

### NRS resilient soft seated (DI PIPE) socket gate valves

DN80–DN400



### Resilient Soft Seated Gate Valve Series



#### Application standards

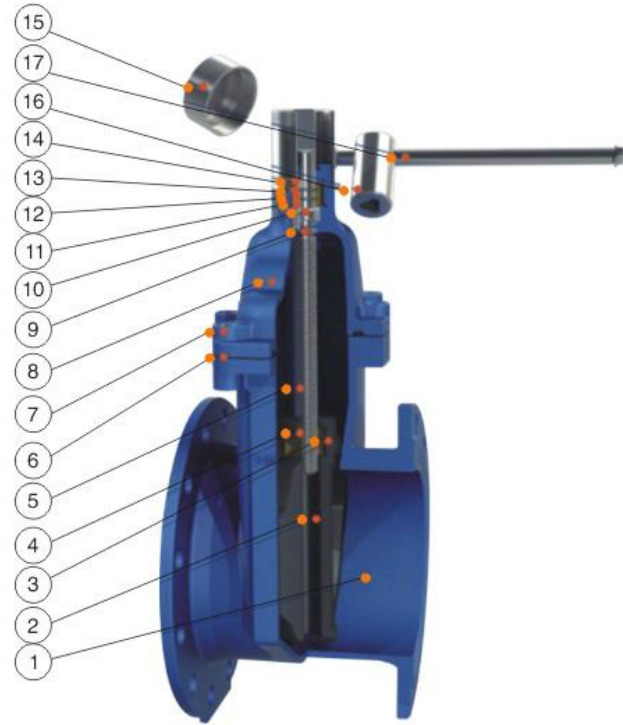
Design standard	EN1171:2002
Socket standard	ISO2531:1998 (GB/T13295–2008)
Size scope	DN80–DN400
Working temperature	NBR 0–70°C, EPDM 0–80°C
Working pressure	PN10–16
Suitable medium	Water
Coating	Epoxy coating with thickness $\geq 250\mu\text{m}$

#### 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



DN80–DN400 (DIN/BS), 3"–12" (ANSI)



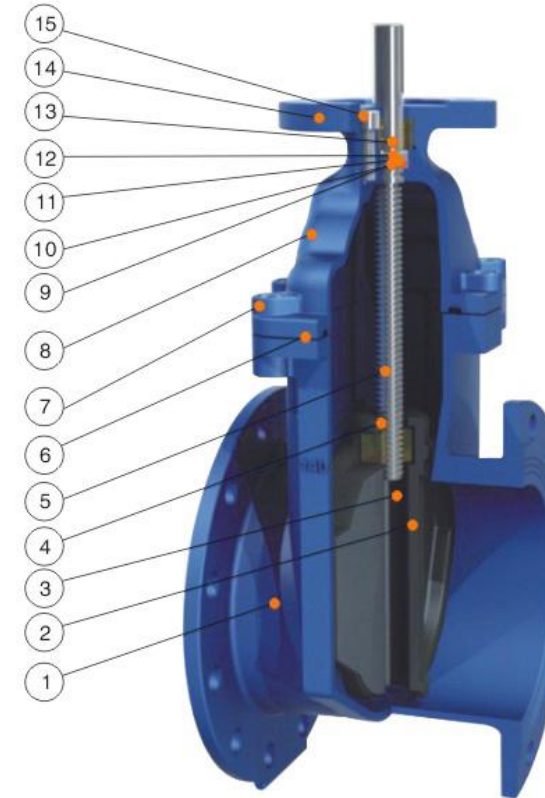
**Application standards**

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	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

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 $\geq 250\mu\text{m}$

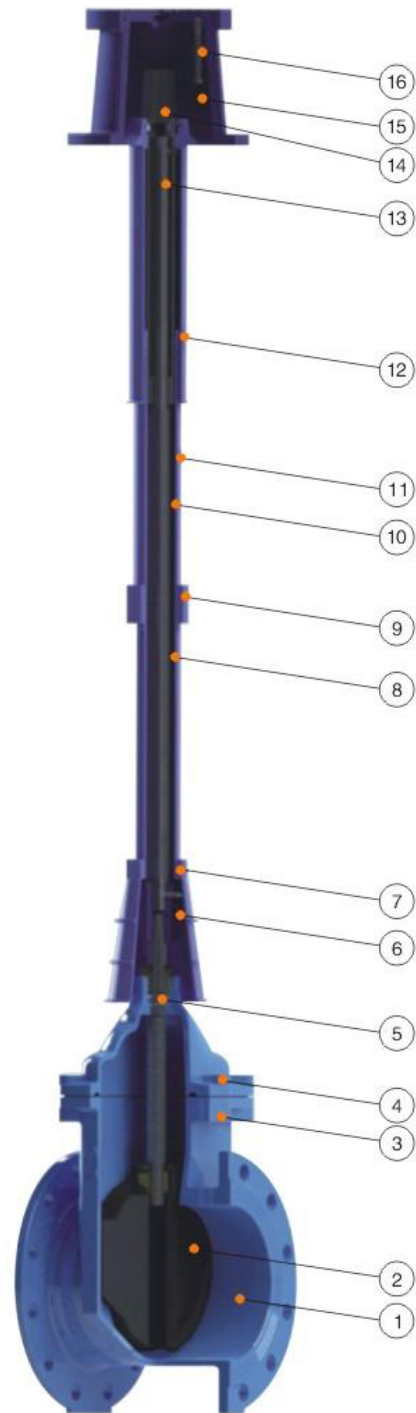
**Parts list**

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

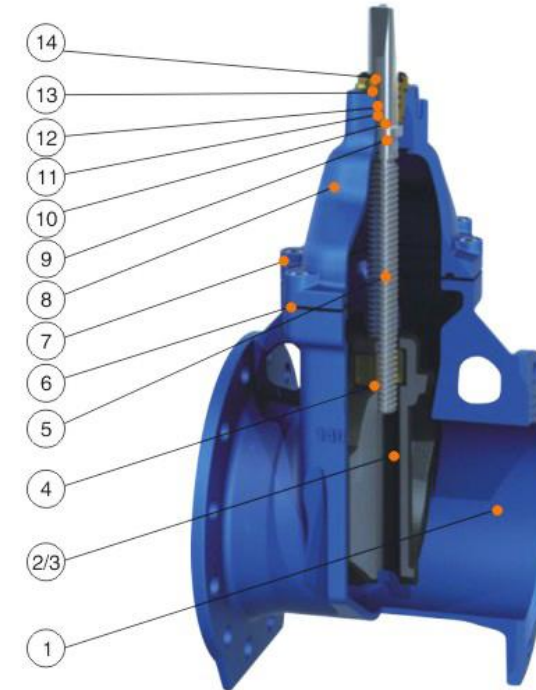
Design standard	EN1171:2002
Face to face	According to EN558–1 series 14(DIN F4), series 15 (DIN F5), series 3 (BS5163) and ASME B16.10
Flange drilling	According to EN1092 PN10–16, ASME B16.1–16.5
Size scope	DN40–DN1000(DIN/BS), 2"–12"(ANSI)
Working temperature	NBR 0–70°C, EPDM 0–80°C
Working pressure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

#### Parts list

No.	PartName	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



#### 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.	PartName	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

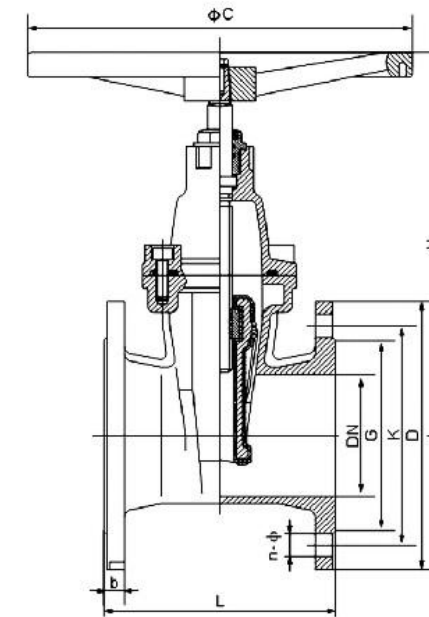


Dimensions

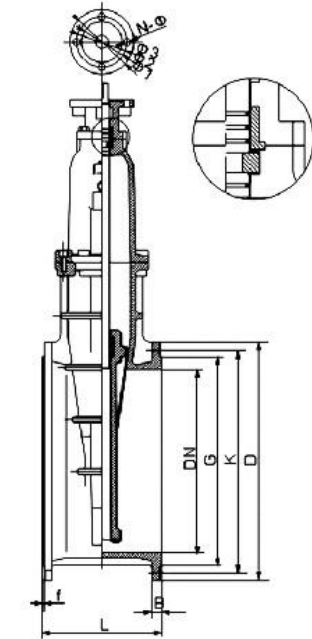
**Resilient Soft Seated Gate Valve Series**

**DIN F4/F5 BS 5163**

DN50-DN300



DN350-DN1000



Dimensions

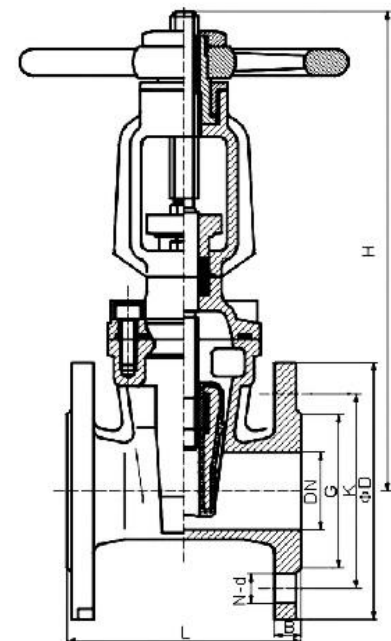
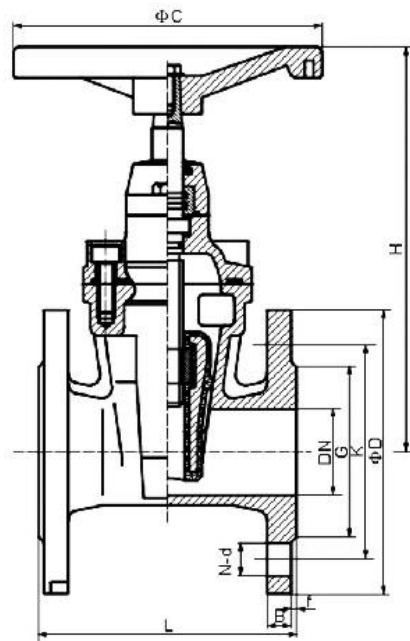
DN	L			D		K		G		f	n-φd		B		
	DIN		BS5163	PN10	PN16	PN10	PN16	PN10	PN16		PN10	PN16	PN10	PN16	
	F4	F5	BS												
2	50	150	250	178	165	165	125	125	99	99	3	4-19	4-19	19	19
2 1/2	65	170	270	190	185	185	145	145	118	118	3	4-19	4-19	19	19
3	80	180	280	203	200	200	160	160	132	132	3	8-19	8-19	19	19
4	100	190	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



Dimensions

Non-rising stem resilient

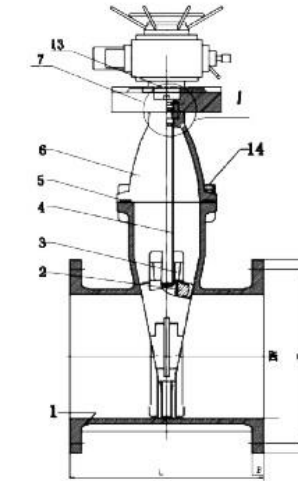
DN	L	(H)		C	D	b		f		K	G		n-d	□S
		iron handwheel	steel handwheel			125	150	125	150		125	150		
2"	178	235.5	248.5	180	152	15.9	14.3	2	120.5	92	4-Φ19	14		
2 1/2"	190	258	274	180	178	17.5	15.9	2	139.5	105	4-Φ19	14		
3"	203	288.5	301.5	200	191	19.1	17.5	2	152.	127	4-Φ19	15		
4"	229	319	332	250	229	23.9	22.3	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)	C	D	b		f		K	G		n-d
		iron handwheel			125	150	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		

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	EN 12266
Flange Drilling	BS4504

Main external and connecting dimensions(mm)

DN	L	D		K		A	b		N-Φd		Electric Actuator Code
		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	-	5	39.5	-	24-Φ37	-	Z350
800	660	1025	-	950	-	5	43	-	24-Φ41	-	Z350
900	711	1125	-	1050	-	5	46.5	-	28-Φ41	-	Z500
1000	813	1255	-	1170	-	5	50	-	28-Φ44	-	Z800



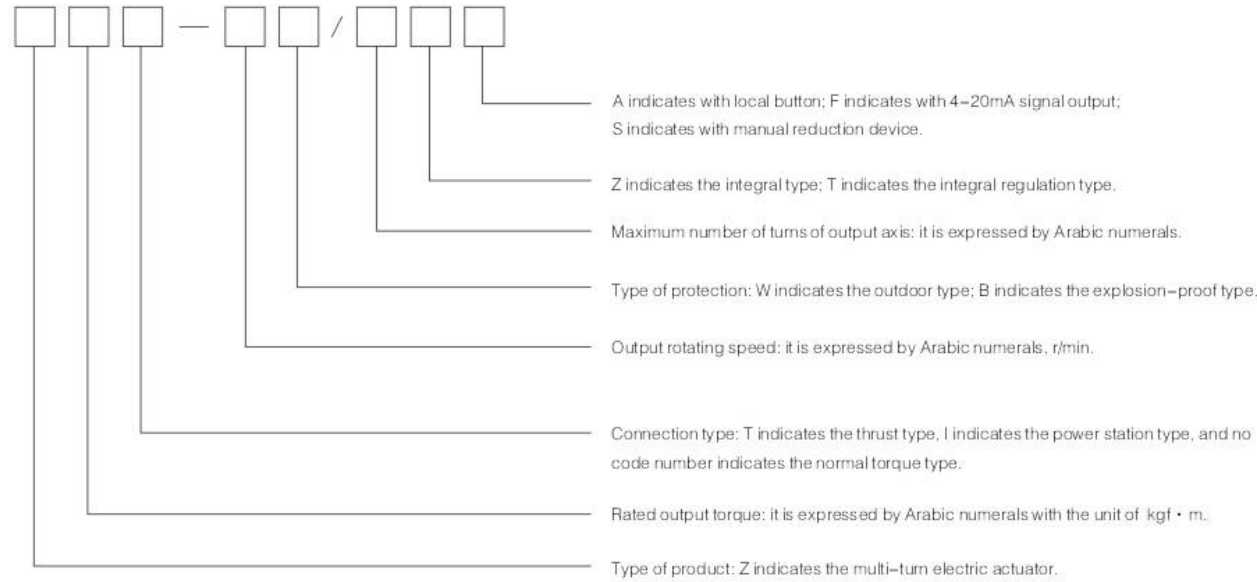
**General Instruction**

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

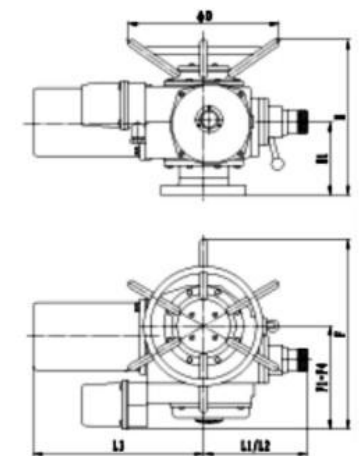
Note: If user requires, we could provide the products with other rotation speed: 12/18/24/30/36/42/48/60(r/min)  
Normally, we provide the products with treble counters. If the number of turns is large, give clear indication of it when placing an order, we can provide the products with quadruple counters.

- 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 looses	1. check and replace the potentiometer 2. screw down the set screw for gear of the potentiometer



**Hydraulic Control Valve Series**

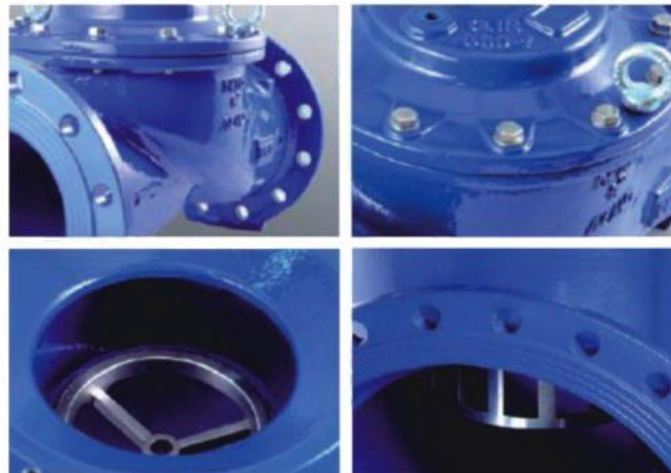
- Float control valve
- Check valve
- Solenoid control valve
- Float control valve
- Flow control valve
- Altitude control valve
- Pressure reducing valve
- Pressure sustaining/relief valve
- Surge anticipating valve
- Pressure reducing and sustaining valve



- 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)



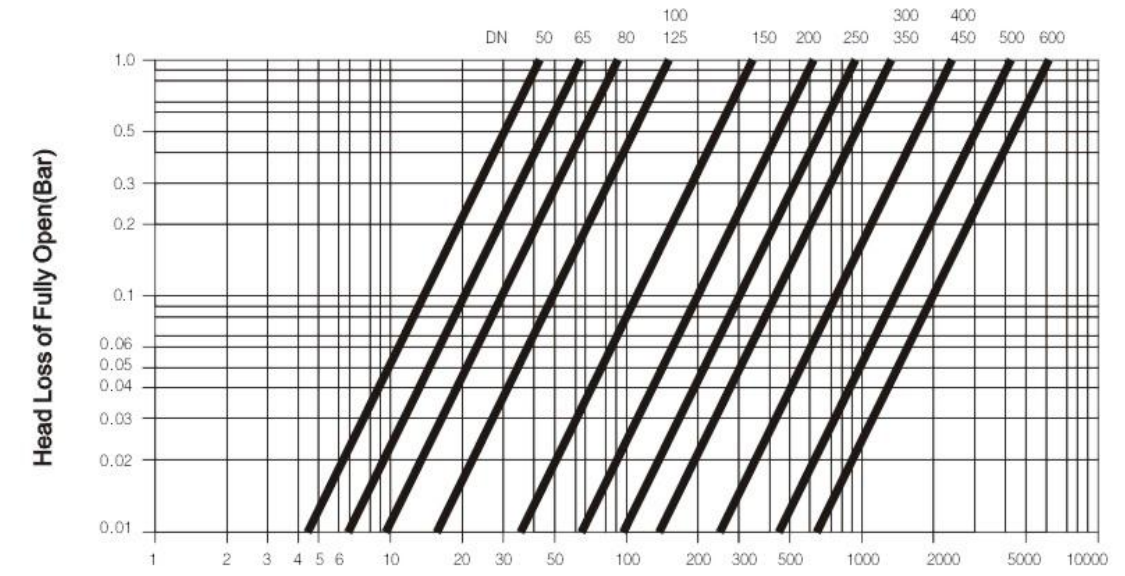
Solutions at the top for high performance product and long lasting valve.



Replaceable seat in stainless steel.

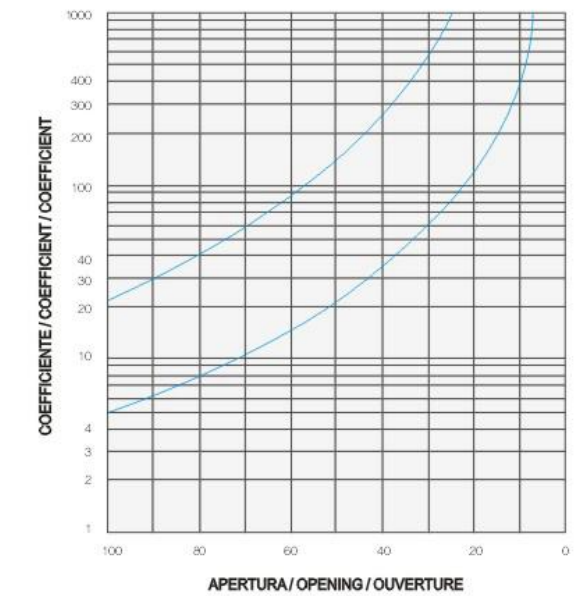
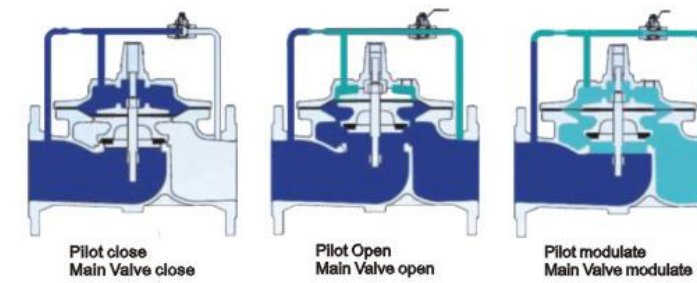
Heavy duty corrosion protection by FBE epoxy coating 300 microns

Flow chart of fully opened main valve



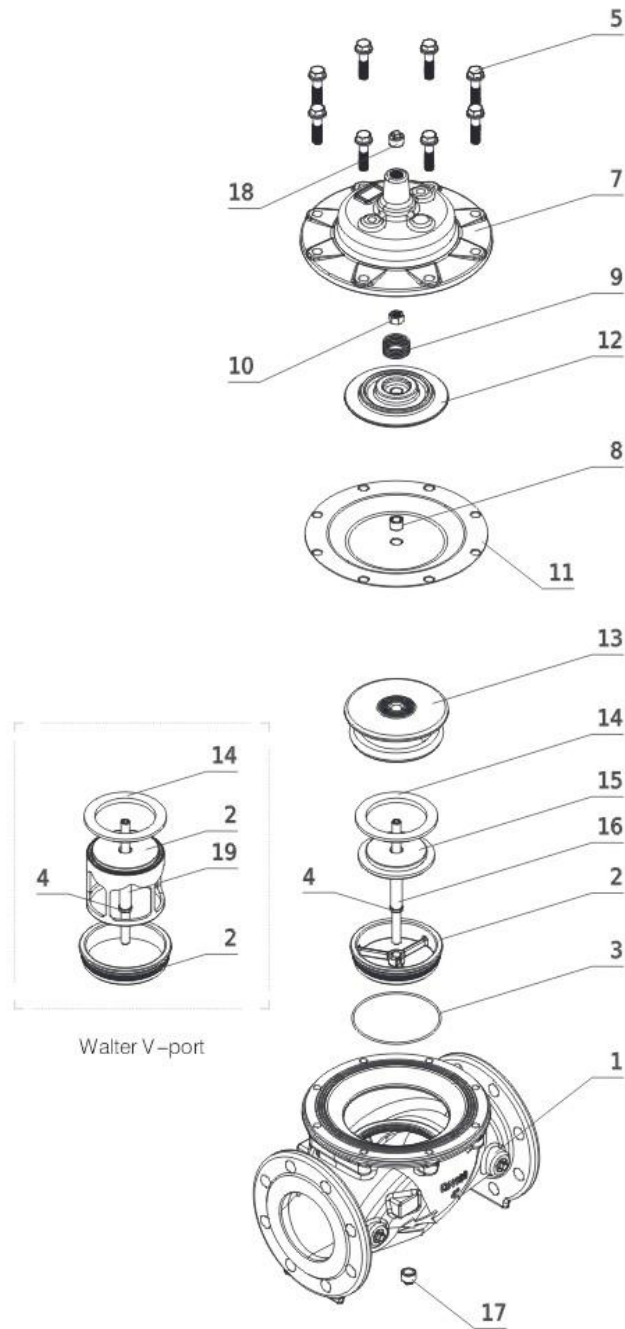
Flow Rate (m³/h) 1psi = 0.068Bar = 0.068 Kg/cm²

Pilot is the brain of main valve





Hydraulic control valve



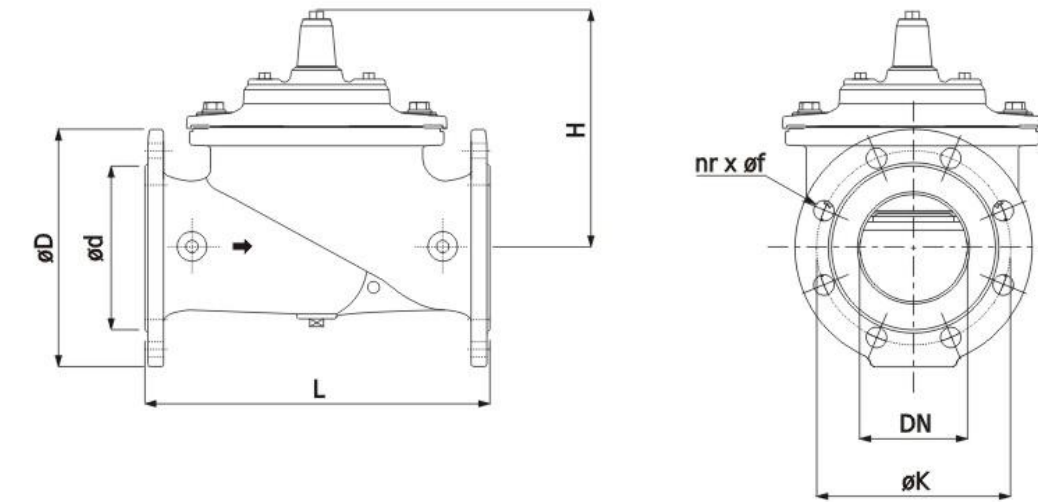
No.	Part Name	Material	
1	Body	Ductile iron	ENGJS-500-7
2	Seat	Stainless steel	AISI 304
3	O-ring	Rubber	NBR
4	O-ring	Rubber	NBR
5	Bolts	Stainless steel	A1
6	Washer	Stainless steel	A2
7	Cover	Ductile iron	ENGJS-500-7
8	Bush	Brass	CuZn40Pb4
9	Spring	Stainless steel	AISI 304
10	Nut	Stainless steel	A2
11	Diaphragm	Rubber	EPDM+Nylon
12	Supportring	Ductile iron	ENGJS-500-7
13	Obturator	Ductile iron	ENGJS-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, CL 125/150/300
- 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

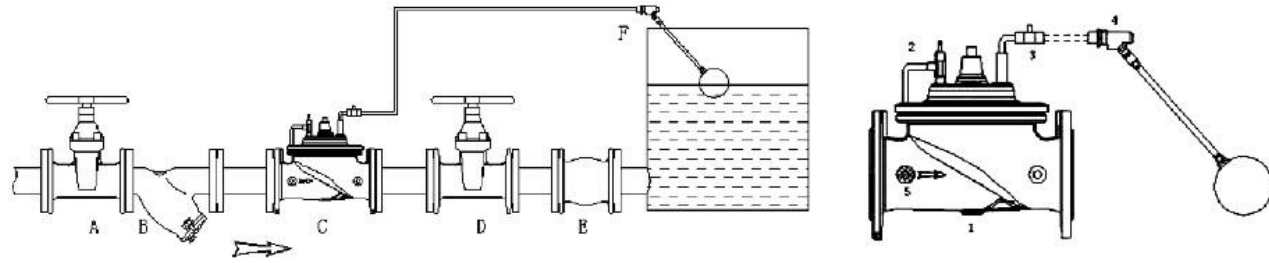


EN558			EN1092-2 PN10					EN1092-2 PN16					EN1092-2 PN25					Weight
DN	L	H	ΦD	ΦK	Φf	n	Φd	ΦD	ΦK	Φf	n	Φd	ΦD	ΦK	Φf	n	Φd	kg
50	230	139	165	125	19	4	99	165	125	19	4	99	165	125	19	4	99	14
65	290	159	185	145	19	4	118	185	145	19	4	118	185	145	19	8	118	19
80	310	179	200	160	19	8	132	200	160	19	8	132	200	160	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



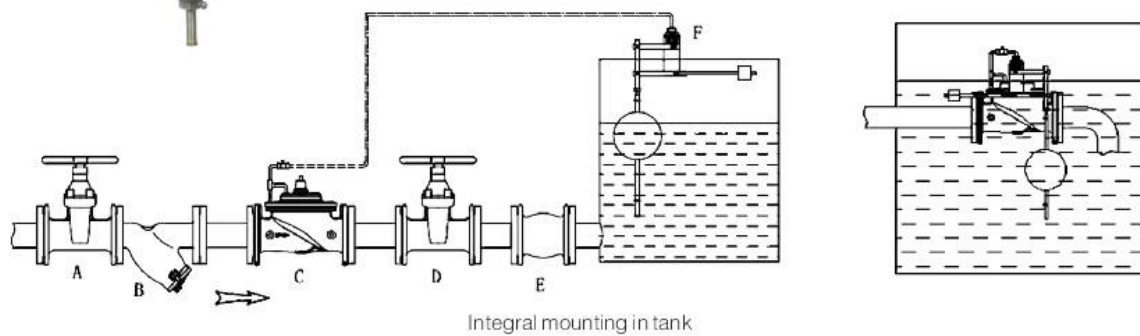
**Float control valve  
F8010**

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.



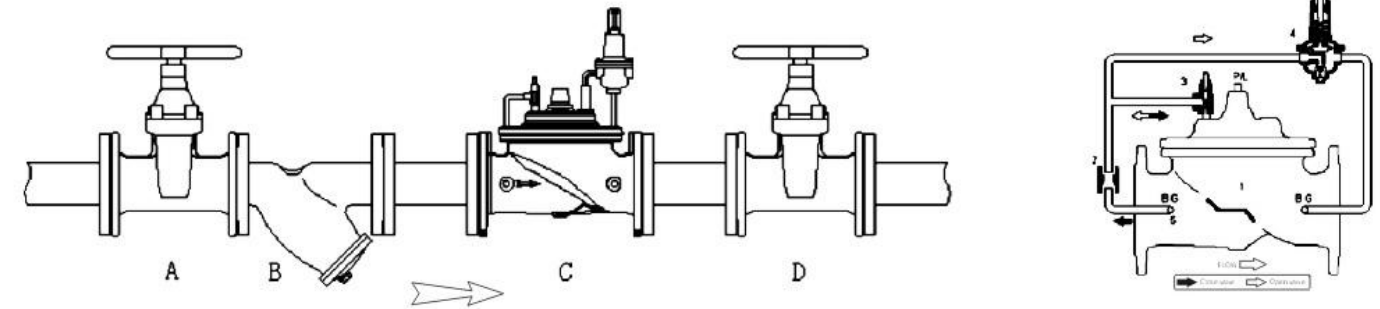
**Float control valve  
F8011**

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.



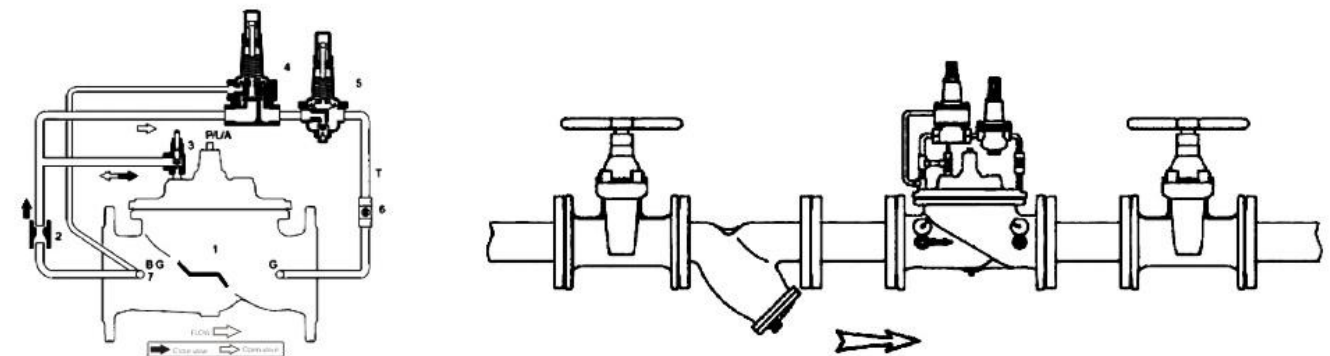
**Pressure reducing valve  
F8020**

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**

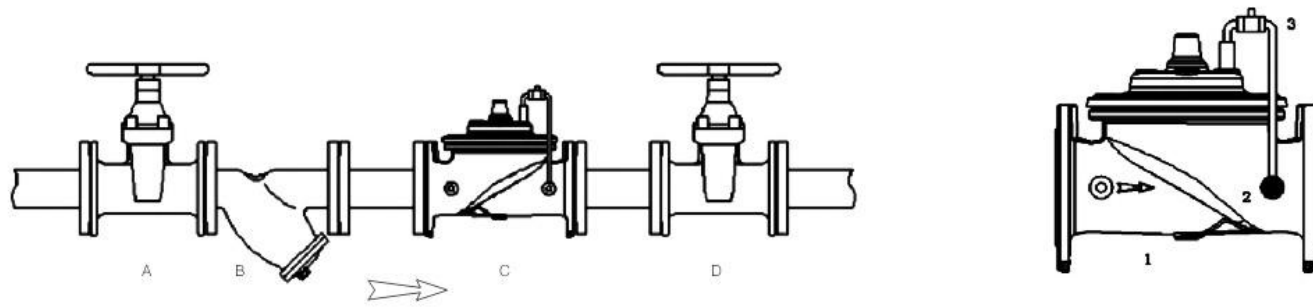
Pressure reducing and sustaining valve automatically perform two independent functions. It maintains a constant downstream pressure, regardless of fluctuating demand and sustains the upstream pressure to a pre-determined minimum. The pressure reducing pilot responds to slight variations in downstream 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**

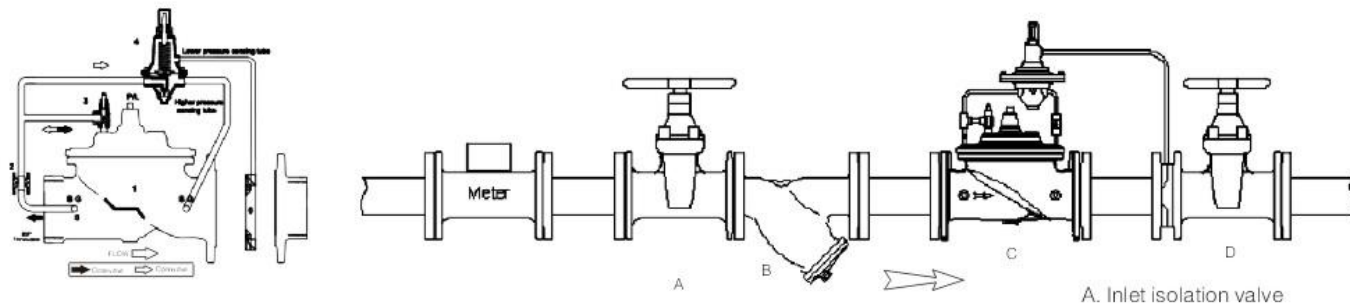
Check valve is a hydraulically operated No-siam check valve. This valve opens when the pressure at the inlet exceeds this discharge pressure. A gradual rate of opening prevents sudden opening surges. When a pressure reversal occurs the higher downstream pressure is applied to the cover chamber through 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**

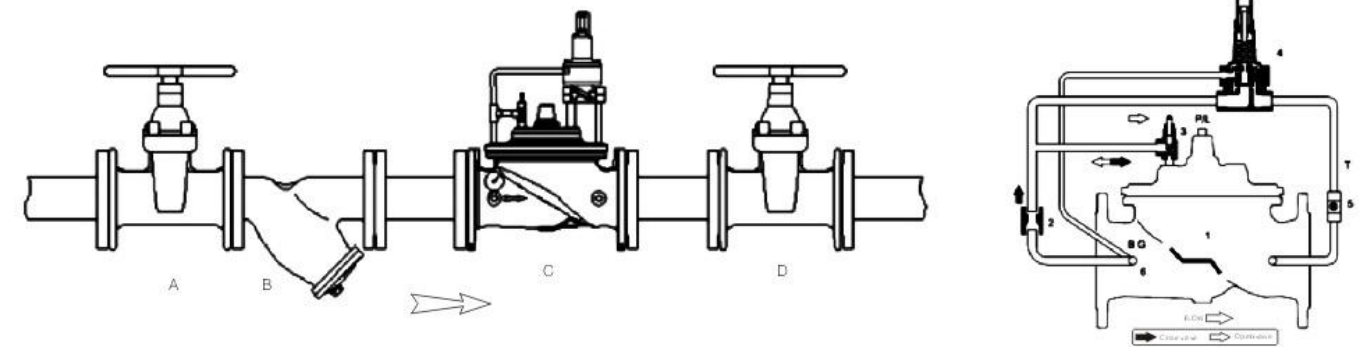
Flow control valve prevents excessive flow by limiting flow to a preselected maximum rate, regardless of changing line pressure. It is a hydraulically operated, pilot controlled, diaphragm valve. The pilot control responds to the differential pressure produced across an orifice plate installed downstream 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.



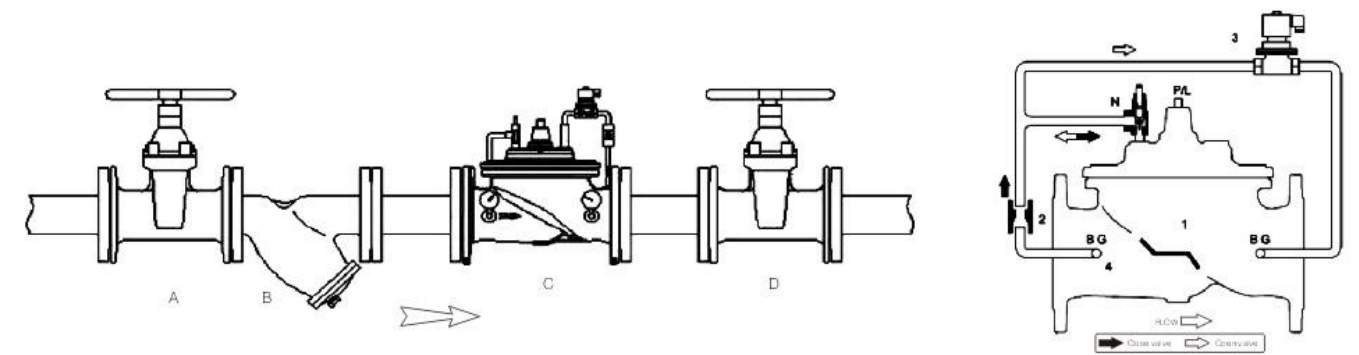
**Pressure sustaining/relief valve  
F8050**

Pressure sustaining/relief valve is a hydraulically operated, pilot-controlled, modulating valve designed to maintain constant upstream pressure within close limits. 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**

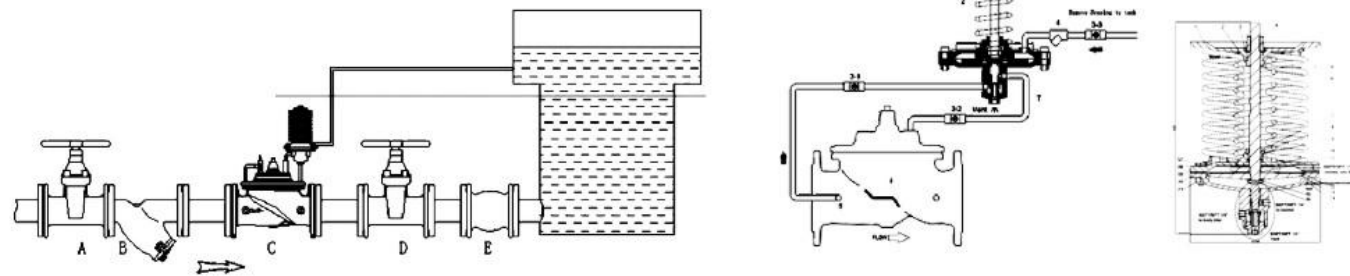
Solenoid control valve is an on-off control valve that either opens or closes upon receiving an electrical signal to the solenoid pilot control. This valve consists of a main valve and a two-way solenoid valve that alternately applies pressure to or relieves pressure from the diaphragm chamber of the 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.





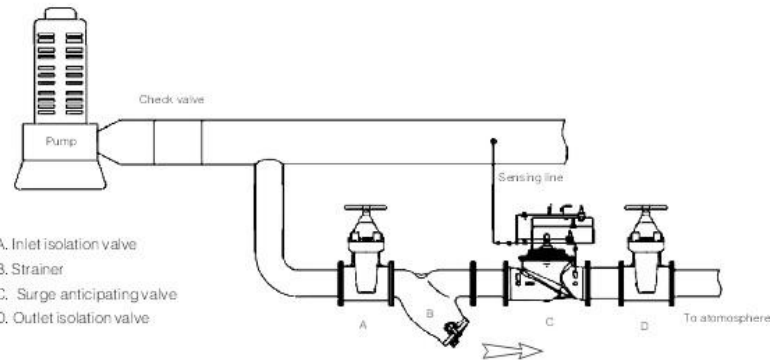
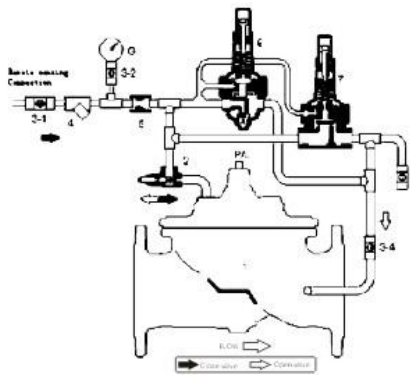
**Altitude control valve  
F8015**

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 highp ressure 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 closeslowly without generating any further pressure surge.



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

**Pilot vavle**

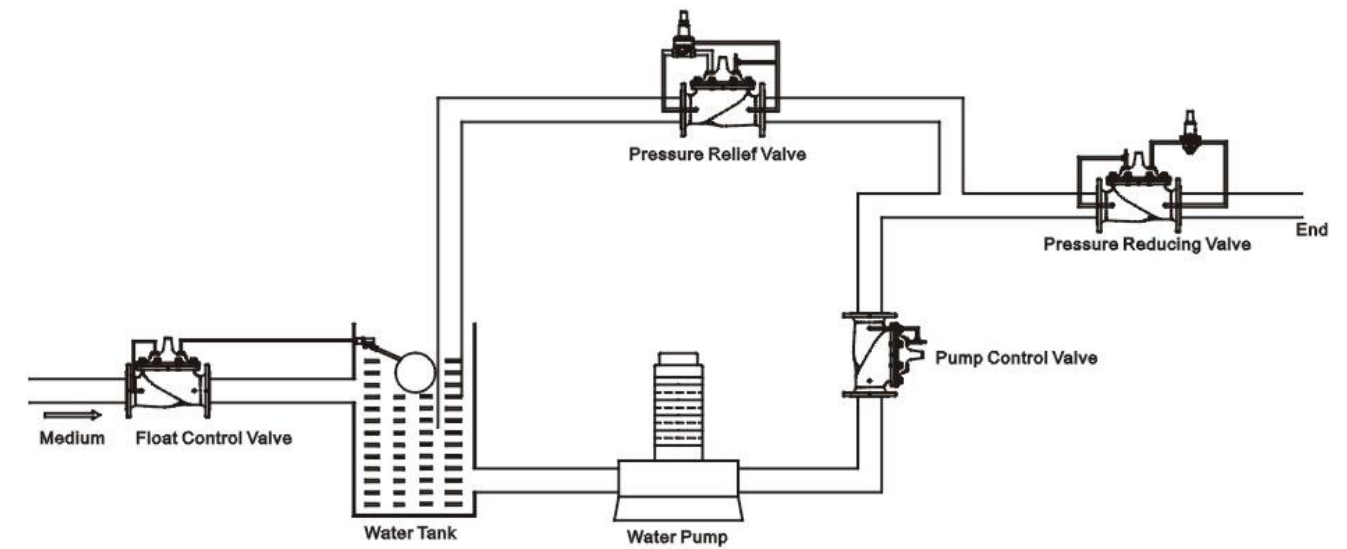


- Cap
- Adjusting Bolt
- Jam Nut
- Bonnet
- Spring Sasher
- Spring
- Diaphragm Jam Kits
- Diaphragm
- Core Kits
- Body
- Plug



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

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





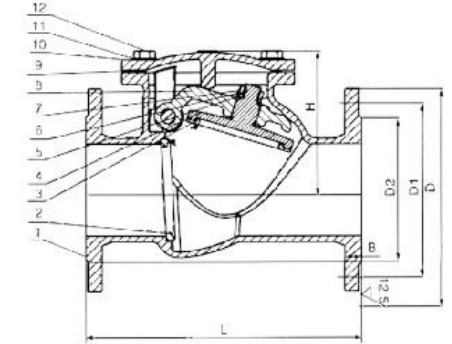


## Check Valve Series

- DIN swing check valve
- BS swing check valve
- Silent check valve
- Foot check valve
- Swing check valve
- Non-return valve
- Ball check valves
- Slow closing check valve
- Flap valve

### DIN swing check valve

### Check valve series



#### Material Specifications

No .	Parts	Material
1	Body	DI, CI
2	Seat	Brass(Hpb59-1)/NBR
3	Seal ring	Brass(Hpb59-1)/NBR
4	Disc	DI, CI
8	Rocker arm	DI
10	Bonnet	DI, CI

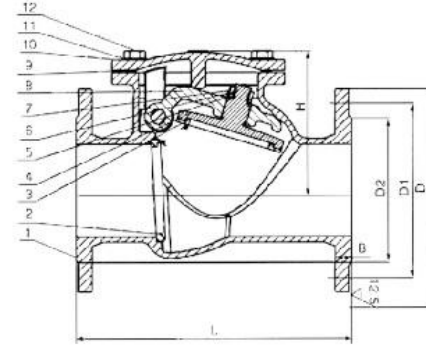
#### Valve design

Technical specification	
Face to Face	DIN3202-F6
Flange Drilling	DIN2531, 2532, 2533
Pressure	PN10/PN16

#### Main external and connecting dimensions(mm)

DN	L	D		D1		D2		B	n-Φd		H
		PN10	PN16	PN10	PN16	PN10	PN16		PN10	PN16	
40	180	150	150	110	110	88	88	17	4-Φ19	4-Φ19	103
50	200	165	165	125	125	102	102	17	4-Φ19	4-Φ19	116
65	240	185	185	145	145	122	122	17	4-Φ19	4-Φ19	116
80	260	200	200	160	160	138	138	18	4-Φ19	8-Φ19	145
100	300	220	220	180	180	158	158	18	8-Φ19	8-Φ19	145
125	350	250	250	210	210	188	188	20	8-Φ19	8-Φ19	175
150	400	285	285	240	240	212	212	22	8-Φ23	8-Φ23	204
200	500	340	340	295	295	268	268	23	8-Φ23	12-Φ23	248
250	600	405	405	355	355	320	320	24	12-Φ23	12-Φ28	292
300	700	460	460	410	410	378	378	26	12-Φ23	12-Φ28	325





**Material Specifications**

No.	Parts	Material
1	Body	Ductile iron
2	Body seat ring	Brass
3	Disc seat ring	Brass
4	Disc	Ductile iron
5	Washer	Stainless steel
6	Locking nut	Stainless steel
7	Arm	Ductile iron
8	Hing pin	Stainless steel
9	O ring	NBR
10	Bonnet	Ductile iron
11	Bolt	Stainless steel

**Valve design**

Technical specification	
Valve Design	BS 5153
Face to Face	EN 558-1
Flange Drilling	BS 4504, EN 1092-2
Pressure	PN10/PN16

**Main external and connecting dimensions(mm)**

Size	DN	D	D1	D2	L	b	f	Z-d	H
2	50	165	125	100	203	19	3	4-Φ19	116
2 1/2	65	185	145	120	216	19	3	4-Φ19	116
3	80	200	160	135	241	19	3	8-Φ19	145
4	100	220	180	156	292	19	3	8-Φ19	145
5	125	250	210	186	330	19	3	8-Φ19	175
6	150	285	240	212	356	19	3	8-Φ23	204
8	200	340	295	268	495	20	3	12-Φ23	248
10	250	405	355	318	622	22	3	12-Φ28	292
12	300	460	410	373	699	24.5	4	12-Φ28	325
14	350	520	470	429	800	36	4	16-Φ28	361
16	400	580	525	480	900	38	4	16-Φ31	388
18	450	640	585	548	1000	40	4	20-Φ31	450
20	500	715	650	609	1100	42	4	20-Φ34	518
24	600	840	770	720	1300	48	5	20-Φ37	620

**PN10/16**

**Product Standard:**

Desing: EN 122334, EN1074  
Flanges: BS EN1092-2, ISO 7005  
Face to Face: EN558-1  
Test: BS EN12266

**Technical Specification:**

Size: DN50-DN600(2'-14")  
Pressure: PN10/16  
Work Temperature: -5°C~85°C  
Seat Test: 1.1 × PN  
Shell Test: 1.5 × PN  
Medium: Clean Water

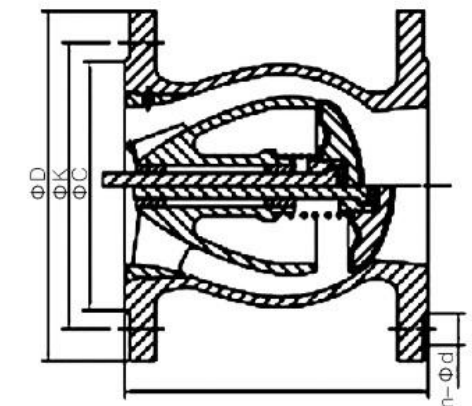


**Features:**

- The most reasonable and streamlined design;
- The MIN. Noise while direct flow or back flow;
- Head loss only 0.18bar with velocity of 2m/s;
- Shut off speed is only 0.2s;
- Integral body and flow guide design, full rubber coated disc;
- FBE coating inside and outside Min 250 μ.

**Material Specification:**

No.	Part Name	Material
1	Body	EN GJS 500-7
2	Disc	DI+EPDM
3	Stem	AISI 304
4	Spring	AISI 304
5	Bush	Brass
6	Nut	AISI 304



**Dimension (mm)**

Size	DN	L	D	K	C	n-Φd PN10	n-Φd PN16
2"	50	150	165	125	19	4-Φ19	4-Φ19
2 1/2"	65	150	185	145	19	4-Φ19	4-Φ19
3"	80	180	200	160	19	8-Φ19	8-Φ19
4"	100	190	220	180	19	8-Φ19	8-Φ19
5"	125	210	250	210	19	8-Φ19	8-Φ19
6"	150	210	285	240	19	8-Φ23	8-Φ23
8"	200	230	340	295	20	8-Φ23	12-Φ23
10"	250	250	405	355	22	12-Φ23	12-Φ28
12"	300	270	460	410	24.5	12-Φ23	12-Φ28
14"	350	290	520	470	24.5	12-Φ23	12-Φ28



**PN10/16**

**Product Standard:**

Desing: EN 122334, EN1074  
Flanges: BS EN1092-2, ISO 7005  
Face to Face: EN558-1  
Test: BS EN12266

**Technical Specification:**

Size: DN50~DN600(2"-12")  
Pressure: PN10/16  
Work Temperature: -5°C~85°C  
Seat Test: 1.1 x PN  
Shell Test: 1.5 x PN  
Medium: Clean Water, Sewage

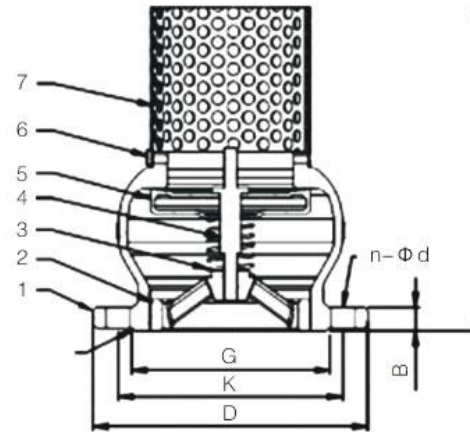


**Features:**

- Reasonable design, can effectively avoid turbulence;
- Easy to install, maintenance and replacement FBE coating inside and outside Min 250µ;
- It's widely use in pumping stations and networks for clean water distribution, irrigation and water treatment.

**Material Specification:**

No.	Part Name	Material
1	Body	EN GJS 500-7
2	Base	EN GJS 500-7
3	Spring	AISI 304
4	Stem	AISI 304
5	Disc	DI+EPDM
6	Bolt	AISI 304
7	Screen	AISI 304



**Dimension (mm)**

Size	DN	D	K	G	H	B	n-Φd PN10	n-Φd PN16
2"	50	165	125	102	190	19	4-Φ19	4-Φ19
2 1/2"	65	185	145	122	210	19	4-Φ19	4-Φ19
3"	80	200	160	138	240	19	8-Φ19	8-Φ19
4"	100	220	180	158	250	19	8-Φ19	8-Φ19
5"	125	250	210	188	310	19	8-Φ19	8-Φ19
6"	150	285	240	212	370	19	8-Φ23	8-Φ23
8"	200	340	295	268	450	20	8-Φ23	12-Φ23
10"	250	405	355	320	470	22	12-Φ23	12-Φ28
12"	300	460	410	378	500	25	12-Φ23	12-Φ28

**PN10/16**

**Product Standard:**

Desing: BS5153  
Flanges: BS EN1092-2, ADME B16.1  
Face to Face: EN558-1, DIN F6  
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 x PN  
Shell Test: 1.5 x PN  
Medium: Clean Water, Sewage

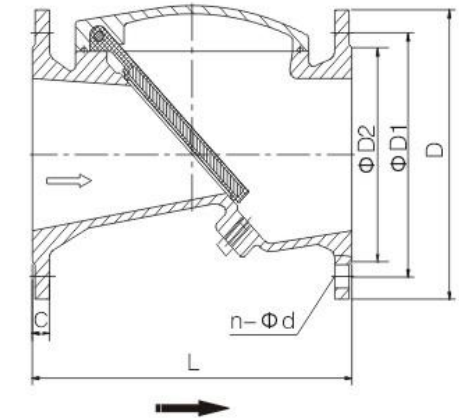


**Features:**

- Disc 45 Degree design to reduce water hammer;
- Full rubber coated disc;
- Horizontal or Vertical installation;
- FBE coating inside and outside Min 250µm.

**Material Specification:**

No.	Part Name	Material
1	Body	EN GJS 500-7
2	Cover	EN GJS 500-7
3	Disc	C.S+EPDM
4	Shaft	AISI 304
5	Bolts	AISI 304
6	O rings	NBR



**Dimension (mm)**

Size	DN	L	D	D1	D2	n-Φd PN10	n-Φd PN16
2"	50	203	165	125	99	4-Φ19	4-Φ19
2 1/2"	65	216	185	145	118	4-Φ19	4-Φ19
3"	80	241	200	160	132	8-Φ19	8-Φ19
4"	100	292	220	180	156	8-Φ19	8-Φ19
5"	125	330	250	210	184	8-Φ19	8-Φ19
6"	150	356	285	240	211	8-Φ23	8-Φ23
8"	200	795	340	295	266	8-Φ23	12-Φ23
10"	250	622	405	355	319	12-Φ23	12-Φ28
12"	300	698	460	410	370	12-Φ23	12-Φ28
14"	350	787	520	470	429	16-Φ23	16-Φ28
16"	400	914	580	525	480	16-Φ26	16-Φ31
18"	450	914	640	585	548	20-Φ26	20-Φ31
20"	500	978	705	650	609	20-Φ26	20-Φ34



PN10/16

**Product Standard:**

Desing: API 594  
Flanges: BS EN1092-2  
Face to Face: EN558-1  
Test: BS EN12266, API 598

**Technical Specification:**

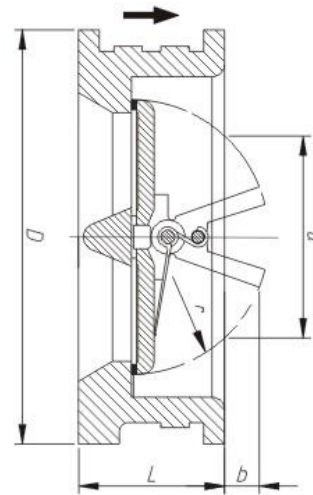
Size: DN50-DN600(2"-24")  
Pressure: PN10/16  
Work Temperature: -5°C~85°C  
Seat Test: 1.1 x PN  
Shell Test: 1.5 x PN  
Medium: Clean Water, Sewage

**Features:**

- Simple structure and affordable, Small and easy to install;
- Horizontal or Vertical Installation;
- Quick shut off speed;
- FBE coating inside and outside Min 250µ .

**Material Specification:**

No.	Part Name	Material
1	Body	EN GJS 500-7
2	Disc	Ductile iron / Stainless Steel
3	Stem	AISI 304
4	Spring	AISI 304
5	Bush	PTFE
6	Seat	EPDM / NBR



**Dimension (mm)**

Size	DN	L	D	a	b	r	WT(kg)
2"	50	43	107	43	8	29	1.5
2 1/2"	65	46	127	60	13	36	2.4
3"	80	64	142	66	14	43	3.6
4"	100	64	162	93	24	53	5.3
5"	125	70	192	117	33	66	7.3
6"	150	76	218	145	43	79	9.2
8"	200	89	273	198	68	104	16.0
10"	250	114	328	234	72	127	26.0
12"	300	114	382	284	100	148	40.7
14"	350	127	442	333	121	173	55.0
16"	400	140	495	381	137	198	75.0
18"	450	152	555	420	148	218	118.0
20"	500	152	617	475	180	245	173.0
24"	600	178	734	585	220	302	200.0

Ball check valves

Check valve series

DN40-DN300

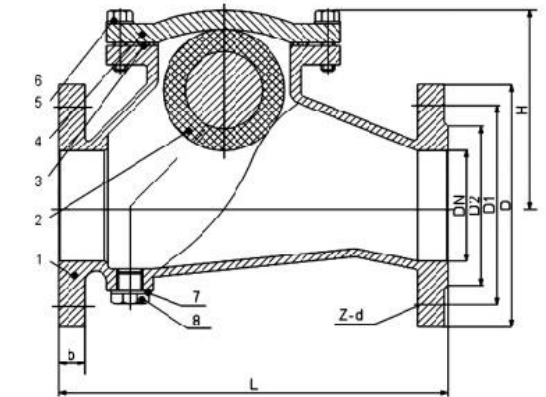
**Application standards**

- Face to face: According to DIN 3202-F6
- Flange drilling: According to EN1092PN10-6, ASME B16.1-16.5
- Size scope: DN40-DN300
- Working temperature: 0-80°C
- Working pressure: PN10-16
- Suitable medium: Water
- Coating: Epoxy coating with thickness  $\geq 250\mu\text{m}$  or painting with thickness  $\geq 80\mu\text{m}$



**Parts list**

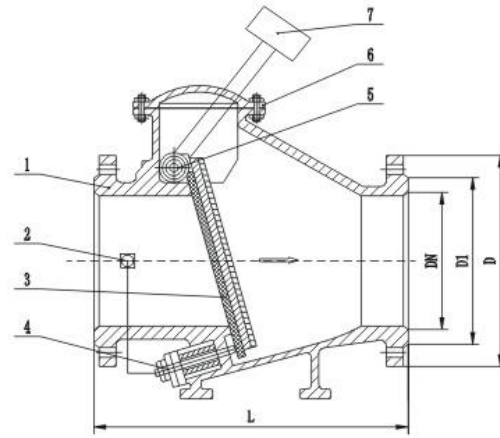
No.	Part Name	Material
1	Body	Ductile iron
2	Ball Float	NBR / EPDM
3	Gasket	NBR / EPDM
4	Bonnet	Ductile iron
5	Bolt	Carbon steel
6	Washer	Carbon steel
7	Washer	NYL
8	Plug	Carbon steel



**Dimensions**

DN	D	D1	D2	L	b	f	H	Z-d	kg
40	Φ 150	Φ 110	Φ 84	180	18	3	125	4-Φ 19	16
50	Φ 165	Φ 125	Φ 99	200	19	3	140	4-Φ 19	18
65	Φ 185	Φ 145	Φ 118	240	19	3	150	4-Φ 19	20
80	Φ 200	Φ 160	Φ 132	260	19	3	162	8-Φ 19	24
100	Φ 220	Φ 180	Φ 156	300	19	3	194	8-Φ 19	30
125	Φ 250	Φ 210	Φ 184	350	19	3	242	8-Φ 19	40
150	Φ 285	Φ 240	Φ 211	400	19	3	277	8-Φ 23	52
200	Φ 340	Φ 295	Φ 266	500	20	3	362	12-Φ 23	84
250	Φ 400	Φ 355	Φ 319	600	22	3	418	12-Φ 28	125
300	Φ 455	Φ 410	Φ 370	700	24.5	4	497	12-Φ 28	-





**Material Specifications**

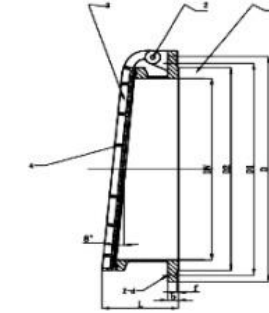
No.	Parts	Material
1	Body	QT450
2	Pin valve	SS304
3	Disc	QT450+EPDM
4	Hydraulic cylinder	Component parts
5	Stem	2Cr13
6	Bonnet	QT450
7	Balance weight	20#

**Valve design**

技术规范 Technical specification	
Valve Design	BS5153, EN13709
Face to Face	EN558
Flange Drilling	BS4504/EN 1092

**Main external and connecting dimensions(mm)**

DN	L	D		D1		n-Φd	
		PN1.6	PN2.5	PN1.6	PN2.5	PN1.6	PN2.5
50	230	160	160	125	125	4-18	4-18
65	290	180	180	145	145	4-18	8-18
80	310	195	195	160	160	8-18	8-18
100	350	215	230	180	190	8-18	8-23
125	400	245	270	210	220	8-18	8-25
150	480	280	300	240	250	8-23	8-25
200	500	335	360	295	310	12-23	12-25
250	600	405	425	355	370	12-25	12-30
300	700	460	485	410	430	12-25	12-30
350	800	520	550	470	490	16-25	16-30
400	900	580	610	525	550	16-30	16-34
500	1100	705	730	650	660	20-30	16-34
600	1300	840	840	770	770	20-34	16-41



**Features and USES**

The flap valve is mainly installed at the end of the drainage pipe to prevent the backflow of the outside water. Material is divided into stainless steel, cast iron, steel, composite materials (glass reinforced plastics) and other materials. Clapdoor is a one-way valve installed in the outlet of the drainage pipe along the river. When the water level of the river is higher than the outlet water pipe and the pressure is greater than the pressure inside the pipe, the clapdoor panel will automatically close to prevent the river tide from pouring back into the drainage pipe.

Compared with the traditional gate, batting gate has the following advantages:

1. More energy saving (such as opening and closing doors without external force)
2. Long service life (simple mechanical structure, easy maintenance)
3. Easy to use (switch does not need manual operation)

**Material Specifications**

No.	Parts	Material
1	Body	GGG50
2	Pin shaft	SS304
3	Disc	GGG50
4	Seat	Brass

**Main external and connecting dimensions(mm)**

DN	PN	L	D	D1	D2	b	f	Z-d
50	16	100	165	125	102	19	3	4-19
65	16	120	185	145	122	19	3	4-19
80	16	130	200	160	132	19	3	8-19
100	16	150	220	180	156	19	3	8-19
125	16	160	250	210	184	19	3	8-19
150	16	180	285	240	211	19	3	8-23
200	16	220	340	295	266	20	3	12-23
250	16	230	405	355	319	22	3	12-28
300	16	240	460	410	370	24.5	4	12-28
350	16	250	520	470	429	26.5	4	16-28
400	16	260	580	525	480	28	4	16-31
450	16	270	640	585	548	30	4	20-31
500	16	280	715	650	609	31.5	4	20-34
600	16	300	840	770	720	36	5	20-37
700	16		910	840	794	39.5	5	24-37
800	16		1025	950	901	43	5	24-40
900	16		1125	1050	1001	46.5	5	28-40
1000	16		1255	1170	1112	50	5	28-43
1200	16		1485	1390	1326	57	5	32-49



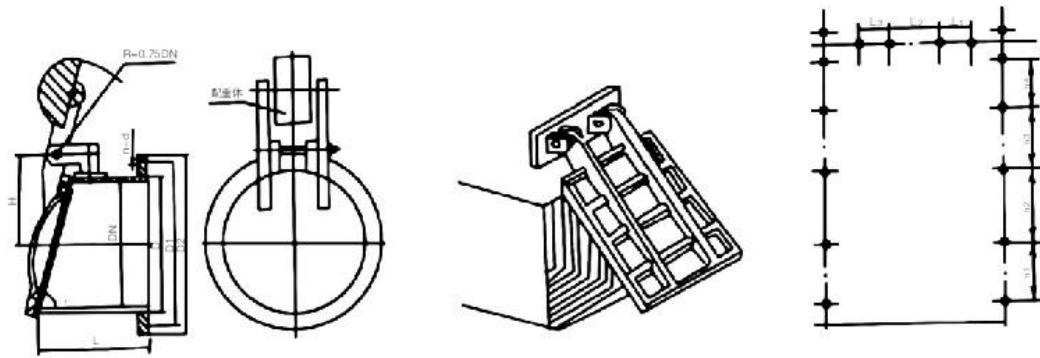
**Working principle:**

The valve seat (valve body), valve plate, sealing ring, hinge four parts. It is only used for round and square water outlet of one-way water flow, with strict structure and reliable work, and no need for manual operation of opening and closing force from water source pressure. When the water pressure inside the batting door is greater than the pressure outside the batting door, it will be opened. If not, close it.

Applicable medium: water, river water, river water, seawater, domestic and industrial sewage

Scope of application: applicable to water conservancy system, municipal sewage, urban flood control and drainage, sewage treatment plant, waterworks, etc.

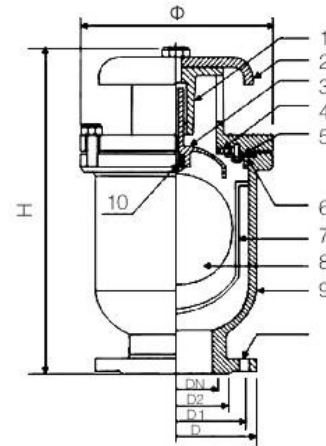
**Installation**



> **Air Release Valve Series**

- Single flange/thread bleed valve
- Single flange/thread bleed valve
- Single flange/thread bleed valve
- Double ball air valve, combined air vent valve





**Product Overview**

This product is used at the highest point on the pipeline or at the outlet of the closed air and pump to remove the gas in the pipeline to dredge the pipeline and make the pipeline work normally. If the exhaust valve is not installed, the pipeline will appear air resistance at any time, so that the water output capacity of the pipeline cannot meet the design requirements. Secondly: the pipeline in the operation of power failure, stop the pump pipeline in time negative pressure will cause vibration or rupture of the pipeline, the exhaust, inlet valve quickly inhaled the air in the pipe, to prevent vibration or rupture of the pipeline.

**Action principle**

The compound exhaust valve must be equipped with two holes, one big and one small, the big hole and the diameter hole are basically the same, the pipeline first water has a lot of gas to discharge, these gases are discharged from the big hole. When the gas exhaust, the big hole stop exhaust, pipe in normal operation, the tube will naturally produce negative pressure. A large amount of air is needed in the pipe, and the float ball drops down with the water, opening the small hole and driving the large hole to conduct a large amount of air intake to ensure the safety of the pipe.

Note: the pressure of the exhaust valve should not be less than 0.02mpa in the process of use. If the exhaust valve is prone to water leakage, it must be equipped with a valve for maintenance.

**Technical parameters**

Technical parameters	
Working pressure	1.6/2.5Mpa
Medium	Water
Working temperature	≤80°C

**Material Specifications**

N o.	Parts	Material
1	Rain proof cover	QT450/WCB
2	Bonnet	QT450/WCB
3	Guide rod plug	304
4	Seal ring	Rubber
5	Sealing plate	304
6	Gasket	PTFE
7	Sealing head	Rubber
8	Ball barrels	304
9	Float ball	304
10	Body	QT450/WCB

**CARX-1.6 type dimensions**

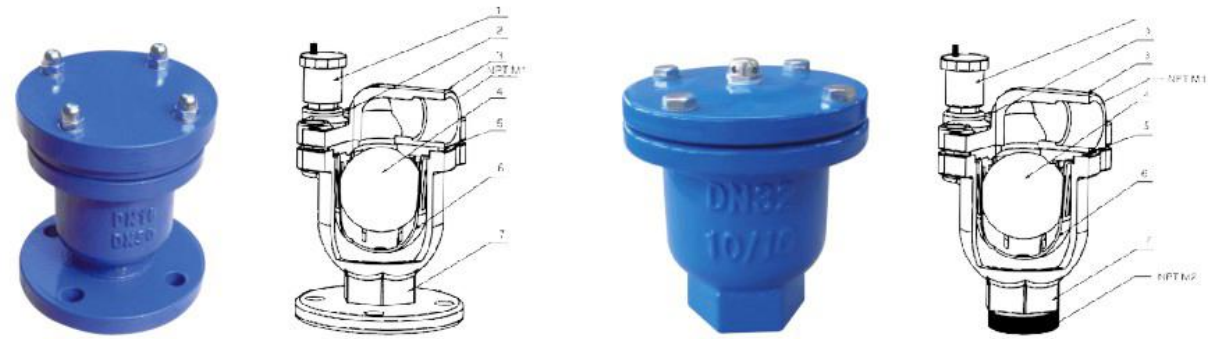
DN	D	D1	D2	Φ	H	Z-Φd
25	115	85	68	165	310	4-14
50	165	125	102	165	310	4-18
80	200	160	138	200	370	8-18
100	220	180	158	220	380	8-18
150	285	240	212	285	500	8-22
200	340	295	268	360	600	12-22
250	405	355	320	465	680	12-26
300	460	410	378	505	780	12-26
350	520	470	438	605	860	16-26
400	580	525	490	660	940	16-30

**CARX-2.5 type dimensions**

DN	D	D1	D2	Φ	H	Z-Φd
25	115	85	68	195	320	4-14
50	165	125	102	195	320	4-18
80	200	160	138	242	375	8-18
100	235	190	162	260	395	8-22
150	300	250	218	340	500	8-26
200	360	310	278	405	600	12-26
250	435	370	335	465	680	12-30
300	485	430	395	505	780	16-30
350	555	490	450	605	860	16-33
400	620	550	505	660	940	16-36



### Single flange/thread bleed valve



#### Product Overview

Exhaust valves are usually applied on the pipelines of independent heating system, central heating supply system, heating boiler central air-conditioning, floor heating and air heating system. Because there are certain air soluble in water and the air solubility decrease when the temperature rise, then the air separate from water during water cycle, it gradually comes together to form larger bubbles or air column, it usually produce gas for the water supplement.

#### Material Specifications

No.	Parts	Material
1	Copper air valve	BRASS(HPb59-1)
2	Bolt	Carbon steel
3	Bonnet	DI
4	Ball	ABS
5	Seal Gasket	EPDM
6	Basket	POLY
7	Body	DI

#### Main connection Dimensions

Single ball flanged exhaust valve

DN	B	ΦD	ΦK	ΦG	N-ΦC
20	16	105	75	58	
25	16	115	85	68	
32	18	140	100	78	
40	18	150	110	88	
50	19	165	125	102	
80	20	200	160	138	
100	20	220	180	158	

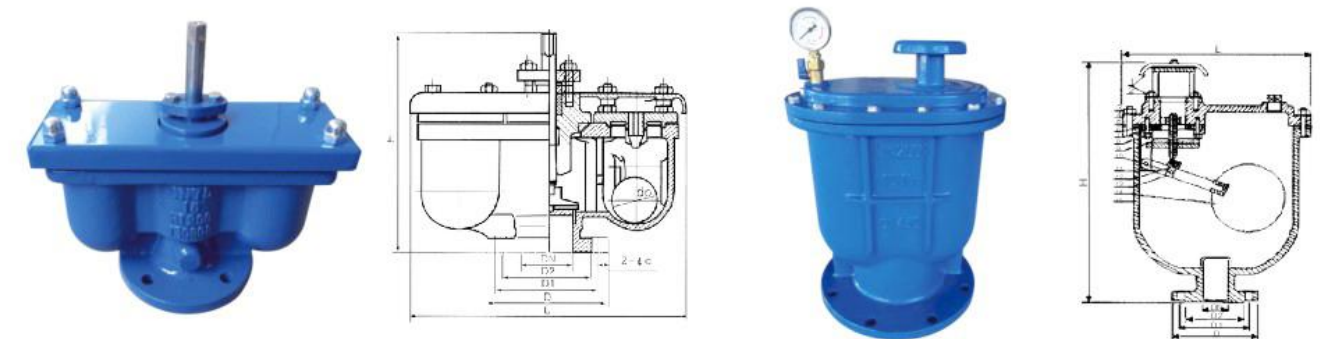
#### Main connection Dimensions

Single ball threaded exhaust valve

DN	M1	M2
20	NPT	NPT
25	NPT	NPT
32	NPT	NPT
40	NPT	NPT
50	NPT	NPT

### Double ball air valve, combined air vent valve

### Air Release Valve Series



#### Product Overview

Air valves are applied on the water pipelines as the equipment to exclude the gas in pipelines, it enhances the efficiency of water transport and protect the pipelines from transformation and broke. When the pipeline under negative pressure, this valve will suction air automatically to prevent the pipeline broken. This valve has big gas displacement for double airvents, it owns maintenance valve, close it when repair then it can be on-line overhaul.

#### Technical parameters

Using the pressure	1.0MPa
Test pressure	1.5MPa
Applicable medium	Clear water
Suitable temperature	Normal temperature
Body	CI
Floating ball and stopper	Stainless steel

#### Main external and connecting dimensions(mm)

Double Ball Air valve

DN	D	D1	D2	L	H	Z-Φd
50	160	125	100	325	325	4-14
80	195	160	135	325	325	4-14
100	215	180	155	380	380	4-18
125	245	210	185	475	475	8-18
150	280	240	210	475	475	8-18
200	335	295	265	580	580	8-23

\*The above specifications to be varied to suit your specific requirements.

#### Main external and connecting dimensions(mm)

Combined Air Vent Valve

DN	D	D1	D2	L	L1	H	Z-Φd
25	115	85	65	235	180	355	4-14
50	160	125	102	325	205	450	4-18
80	195	160	138	365	235	500	4-18
100	215	180	158	385	258	535	8-18

#### Choose different specifications according to pipe diameter size of exhaust valve

Size	Water pipeΦ	Size	Water pipeΦ	Size	Water pipeΦ	Size	Water pipeΦ
25	100-250	80	500-700	150	1200-1500	250	2200-2600
50	300-450	100	800-1000	200	1600-2000	300	2800-3400



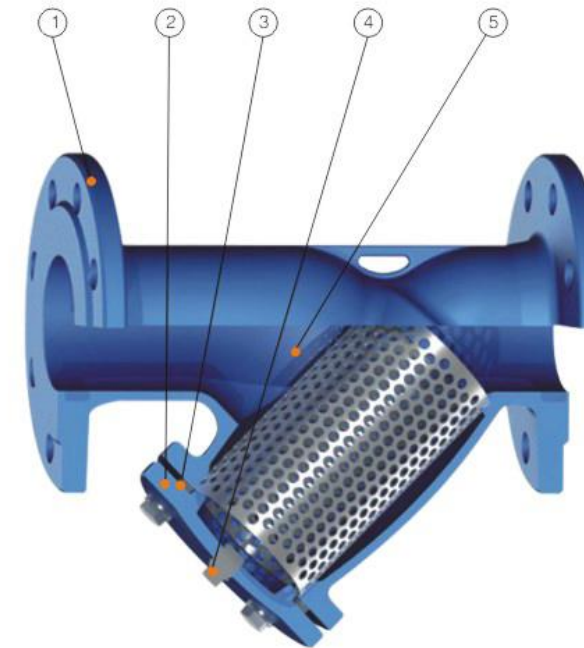


## Strainers & Pipe Fittings

- Y strainers
- BS Strainer
- ST strainers
- Water outlet strainer
- BS750 Underground fire hydrant
- Hydrant box
- Valve shaft
- Flange rubber expansion joints
- Restrained flange adaptor for HDPE/PVC pipe
- Ductile iron pipe joints

### Y strainers

DN50–DN400, 4.5"–12"



#### Material Specification:

No.	Part Name	Material
1	Body	Ductile iron
2	Cover	Ductile iron
3	Gasket	EPDM / NBR
4	Plug	Galvanized steel
5	Screen	SS304
6	Bolts	Galvanized steel

#### Application standards

- Face to face: According to DIN3202–F1, BS2080
- Flange drilling: According to EN1092 PN10–16, ASME B 16.1–16.5
- Size scope: DN50–DN400, 1.5"–12"
- Working temperature: 0–80°C
- Working pressure: PN10–16, Class 125–150
- Suitable medium: Water
- Coating: Epoxy coating with thickness  $\geq 250\mu\text{m}$

#### Standard for mesh of screen

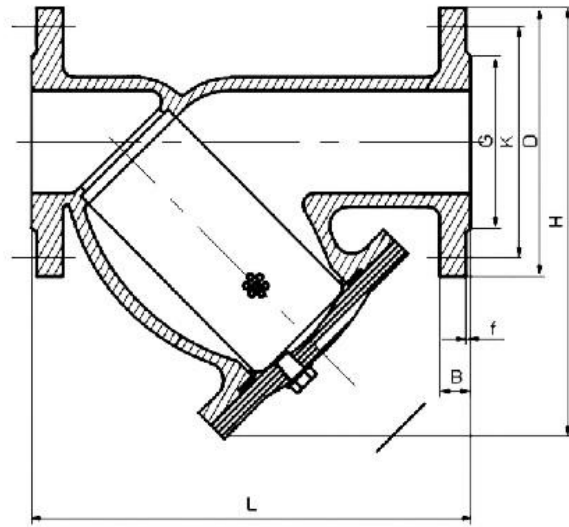
- For water medium: 10–30 mesh/cm<sup>2</sup>
- For oil medium: 8–200 mesh/cm<sup>2</sup>
- For Air/gas medium: 40–100 mesh/cm<sup>2</sup>

#### Dimension

DN	L	H	D	K		G		f	B	n-d	
				PN10	PN16	PN10	PN16			PN10	PN16
50	230	211	165	125	99	3	19	4–19	4–19		
65	290	247.5	185	145	118	3	19	4–19	4–19		
80	310	281	200	160	132	3	19	8–19	8–19		
100	350	315	220	180	156	3	19	8–19	8–19		
125	400	366	250	210	184	3	19	8–19	8–19		
150	480	427	285	240	211	3	19	8–23	8–23		
200	600	526	340	295	266	3	20	8–23	12–23		
250	730	619	405	350	355	3	22	12–23	12–28		
300	850	749	460	400	410	370	370	4	24.5	12–23	12–28

DIN



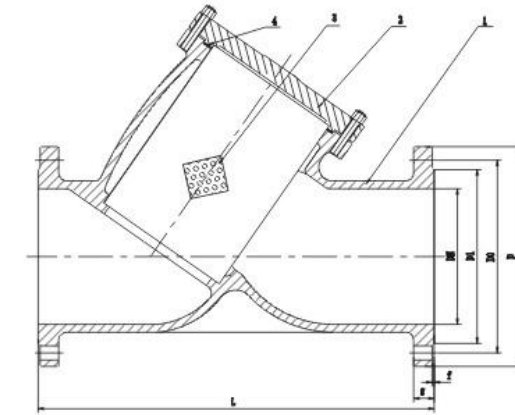


**Dimension** ANSI

DN	L	H	D	B		f	K	G		n-d
				150	150			120	150	
50	225	211	152	14.3	150	2	120.5	92	4-19	
65	273	247.5	178	15.9	150	2	139.5	105	4-19	
80	292	281	191	17.5	150	2	152.5	127	4-19	
100	352	315	229	22.3	150	2	190.5	157	8-19	
125	420	366	254	22.3	150	2	216.5	186	8-22	
150	470	427	279	23.9	150	2	214.5	216	8-22	
200	543	526	343	27	150	2	298.5	270	8-22	
250	660	619	406	28.6	150	2	362	324	12-25	
300	760	749	483	30.2	150	3	432	381	12-25	

**Dimension** BS

Inch	L	H	D	K		G		f	B	n-d	
				PN10	PN16	PN10	PN16			PN10	PN16
2"	220	211	165	125	99	3	19	4-19	4-19		
2.5"	270	247.5	185	145	118	3	19	4-19	4-19		
3"	290	281	200	160	132	3	19	8-19	8-19		
4"	350	315	220	180	156	3	19	8-19	8-19		
5"	390	366	250	210	184	3	19	8-19	8-19		
6"	440	427	285	240	211	3	19	8-23	8-23		
8"	540	526	340	295	266	3	20	8-23	12-23		
10"	660	619	405	350	355	3	22	12-23	12-28		
12"	720	749	460	400	410	370	370	4	24.5	12-23	12-28



**Material Specifications**

No.	Parts	Material
1	Body	CI, DI, WCB
2	Screen	SS304
3	Shim	PTFE
4	Bonnet	CI, DI, WCB

**Valve design**

Technical specification	
Valve Design	BS5153, EN13709
Face to Face	EN558
Flange Drilling	BS4504/EN1092-2

**Main external and connecting dimensions(mm)**

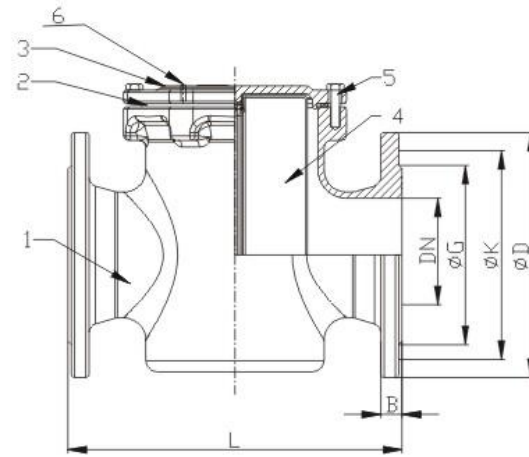
**PN16**

DN	L	D	D1	D2	b	f	Z-φd
50	225	165	125	102	19	3	4-19
65	273	185	145	122	19	3	4-19
80	292	200	160	138	19	3	8-19
100	362	220	180	158	19	3	8-19
125	416	250	210	188	19	3	8-19
150	470	285	240	212	19	3	8-23
200	543	340	295	268	20	3	12-23
250	660	405	355	320	22	3	12-28
300	762	460	410	378	24.5	4	12-28
350	950	520	470	438	26.5	4	16-28
400	1100	580	525	487	28	4	16-31
450	890	640	585	545	30	4	20-31
500	895	715	650	608	31.5	4	20-34
600	1080	830	725	718	35	5	20-37

**PN25**

DN	L	D	D1	D2	b	f	Z-φd
50	220	165	125	99	19	3	4-19
65	255	185	145	118	19	3	8-19
80	270	200	160	132	19	3	8-19
100	305	235	190	156	19	3	8-23
125	340	270	220	184	19	3	8-28
150	385	300	250	211	20	3	8-28
200	485	360	310	274	22	3	12-28
250	540	425	370	330	24.5	3	12-31
300	600	485	430	389	27.5	4	16-31
350	695	550	490	448	30	4	16-34
400	780	610	550	505	32	4	16-37
450	890	660	600	555	34.5	4	20-37
500	895	730	660	610	36.5	4	20-37
600	1080	840	770	718	42	5	20-41



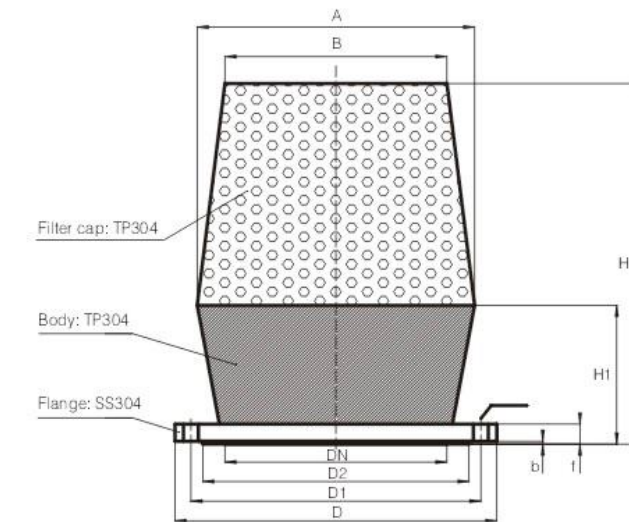


**Material Specification:**

No.	Part Name	Material
1	Body	Nodular cast iron
2	Gasket	EPDM
3	Cover	Nodular cast iron
4	Screen	SS 304
5	Bolts	Galvanized
6	Plug	Carbon steel

**Dimension (mm)**

DN	L	D	K	G	B	n-Φd
50	240	165	125	102	19	4-19
80	280	200	160	138	19	8-19
100	300	220	180	158	19	8-19
150	400	285	240	212	20	8-23
200	420	340	295	268	21	12-23
300	600	460	410	378	25	12-28



**Function**

Water outlet strainer is an indispensable device on the medium pipeline, usually installed in the pressure relief valve, pressure relief valve, constant water level valve, square filter other equipment inlet equipment. The filter has a certain size of filter mesh filter cylinder, its impurities are blocked, when the need to clean, as long as the removable filter cylinder out, after treatment can be reloaded, therefore, the use and maintenance is very convenient.

Mesh size of filter screen is generally 10-30 mesh /cm<sup>2</sup> for water filter, 40-100 mesh /cm<sup>2</sup> for air filter, and 60-200 mesh /cm<sup>2</sup> for oil filter

**Main sizes and dimensionsn**

DN	Outline size					Mesh aperture(mm)	Connection flange size PN1.6MPa				
	A	B	H	H1	D		D1	D2	b	f	n-Φ
100	120	100	200	60	215	6	180	155	20	3	8-18
125	150	125	250	80	245	6	210	185	22	3	8-18
150	180	150	300	100	280	6	240	210	24	3	8-22
200	250	200	300	100	335	8	295	265	26	3	12-22
250	300	250	400	150	405	8	335	320	30	3	12-25
300	360	300	500	200	460	8	410	375	30	4	12-25
350	420	350	550	250	520	8	470	435	34	4	16-25
400	500	400	650	250	580	8	525	485	36	4	16-30
450	540	450	650	250	640	8	585	545	40	4	20-30
500	600	500	800	300	705	10	650	608	44	4	20-34
600	720	600	800	300	840	10	770	718	48	5	24-41
700	840	700	900	400	910	10	840	788	50	5	24-41
800	960	800	1000	400	1020	10	950	898	52	5	24-41



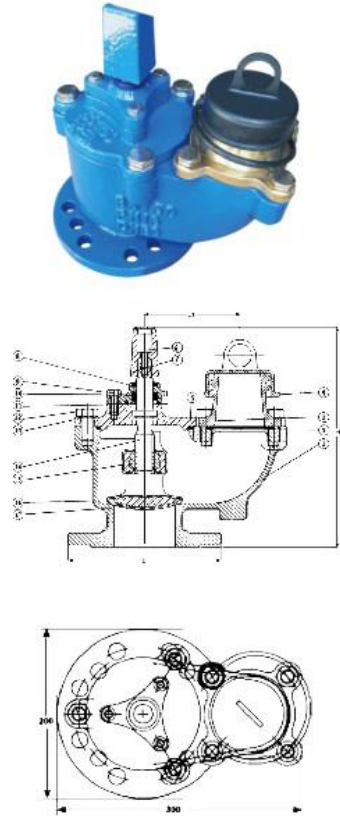
**Materials of construction**

No.	Description	Material
1	Body	Ductile iron, BS EN1563
2	Gland packing	O-rings NBR WN 12/7/1
3	Outlet	Gunmetal, BS EN1982 CC491.K OR
4	Dust cap	Polythylene
5	Gland packing	O-rings NBR WN 12/7/1
6	Thrustcollar	For stainless steel 1.4404 (316)
7	Stemcap	Greycast iron, BS EN1561.EN-GL-250
8	Gland packing	NBR WN 12/7/1
9	Gland packing	NBR ISO 5597-1987
10	Thrustcollar	For stainless steel 1.4404 (316)
11	Gland packing	O-rings NBR WN 12/7/1
12	Thrustcollar	For stainless steel 1.4404 (316)
13	Bonnet	Ductile iron, BS EN1563 EN GJS-500-7
14	Stem	For stainless steel 1.4404(316)
15	Stopperassembly	Complete with dzt brass
16	Stopperassembly	Ductile iron, BS EN1563. EN-GJS
17	Body/outlet seal	NBR WN 12/7/1

**Dimensions & weights**

REF NO	DN	L	H	L1	Weight
With automatic Forst valve		mm	mm	mm	kilos
29-288-32 x 11000	80	200	288	126	19

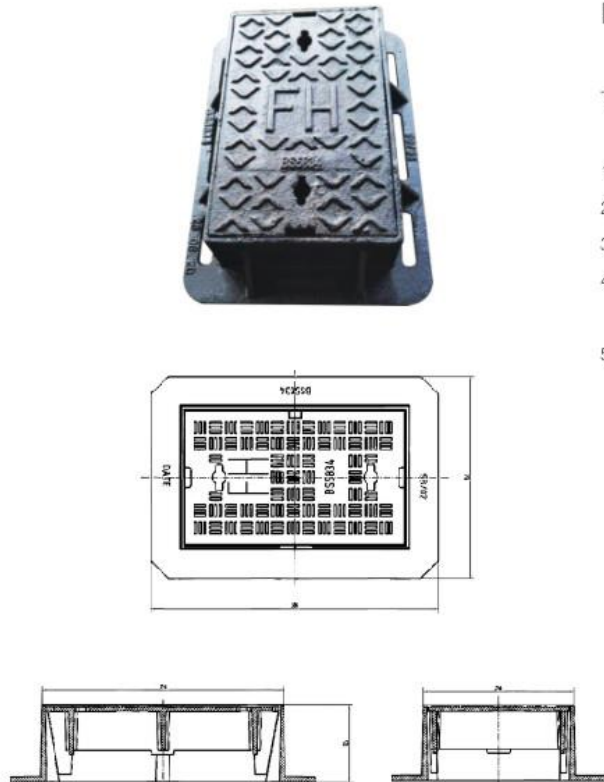
When ordering: x=1 for fixed stopper and 2 for loose



**Hydrant box**

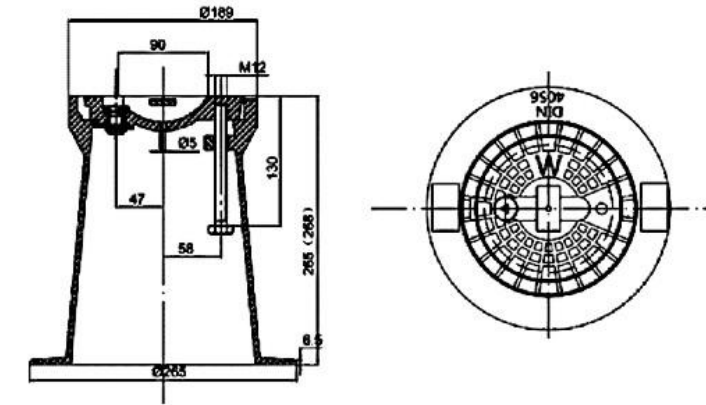
**Technical Requirement**

1. BS 5834 Standard (include BS 750)
2. Material: Ductile Iron
3. Words: 'FH', not less than 75mm
4. Frame Size: 230 x 380 x 125mm  
Overbase Size: 350 x 500
5. Coating: Black Bitumen



**Valve shaft**

**Strainers & Pipe Fittings**



Valve hole is the underground pipeline and underground pipeline, such as water, oil, natural gas pipeline, etc.) of the valve to open and close in the need for part of the network operation or maintenance is convenient, is set similar to the small room of a pit (or well), such as the valve installation in the pit, is advantageous for the periodic inspection, cleaning and dredge pipe, prevent blockage of hub. This pit is called the valve well.

**Technical requirements**

1. The valve well itself can not seepage water, must ensure its tightness;
2. During the use of the water supply pipeline, the pipeline will be subjected to pressure from different aspects, resulting in different degrees of vibration or settlement, that is, the connection between the water supply pipeline and the valve well should be reliable, able to adapt to a certain degree of vibration and settlement, without water infiltration into the well chamber; Cast iron valves (such as globe valve, butterfly valve, etc.) are generally used when the buried deep valve well pipe is a little larger (such as globe valve, butterfly valve, etc.).
3. The connection between the valve well wellbore and the well body and cover should be reliable. Water should not seep into the well chamber because of heavy rain or water.
4. The valve well is buried in the ground, to withstand different pressures from all directions, and different chemical corrosion and damage, and the requirements of its pressure capacity and acid and alkali corrosion resistance.

**Material Specifications**

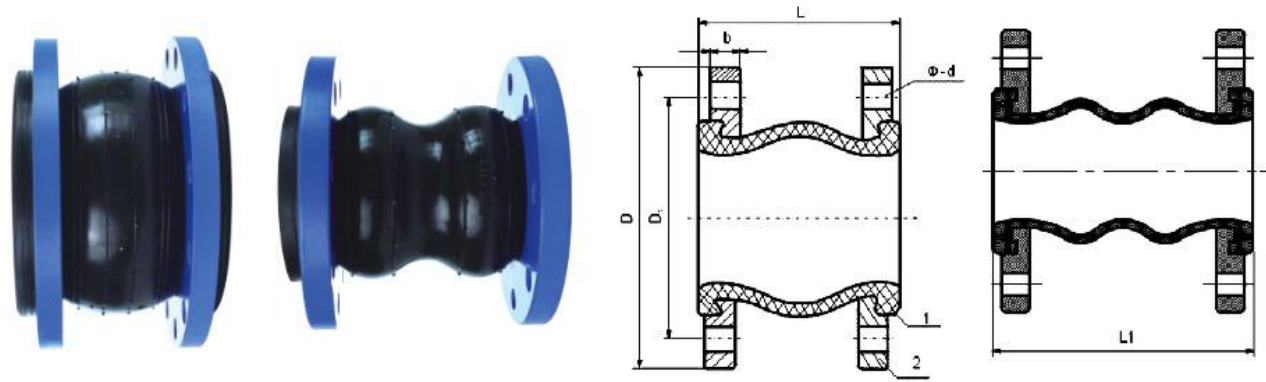
No.	Parts	Material
1	Body	DI, DI, WCB

**Valve design**

Technical specification	
Valve Design	BS 5834



DN50-DN600



**Application standards**

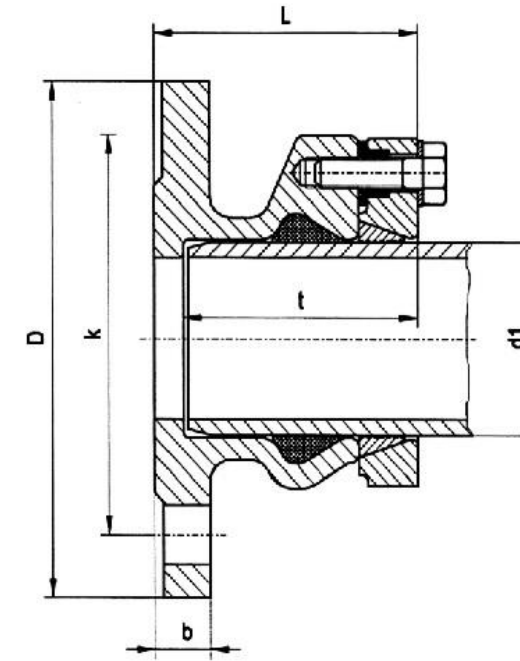
- Flange drilling: According to EN1092 PN10-16, ASME B 16.1-16.5
- Size scope: DN50-DN600
- Working temperature: NBR 0-70°C, EPDM 0-80°C
- Working pressure: PN10-16, Class 125-150
- Suitable medium: Water

**Material Specification:**

No.	Part Name	Material
1	Body	EPDM, NBR
2	Flange	Carbon steel

**Dimension (mm)**

DN	D	D1	B	Φ-n	L	L1
50	165	125	18	18-4	105	175
65	185	145	18	18-4	115	175
80	200	160	20	18-8	135	175
100	220	180	20	18-8	150	225
125	250	210	22	18-8	165	225
150	285	240	22	22-8	180	225
200	340	295	24	22-8	210	325
250	395	350	26	22-12	230	325
300	445	400	26	22-12	245	325
350	505	460	28	22-16	255	350
400	565	515	32	26-16	255	400
450	615	565	38	26-20	255	400
500	670	620	38	26-20	255	400
600	780	725	38	30-20	260	400

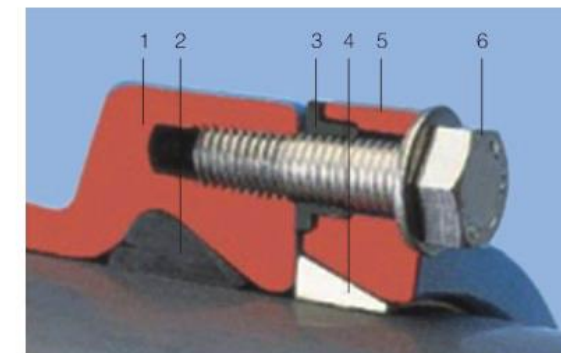


**Art. No.: HAWL2000**

Size	Pipe Φ	Dimensions					Weight
DN mm	d1 mm	D mm	k mm	b mm	l mm	t mm	kg
50	63	165	125	19	90	80	3.6
60	63	175	135	19	90	80	3.8
60	75	175	138	19	95	82	4.0
65	63	185	148	19	90	80	4.3
65	75	185	145	19	92	82	4.3
80	75	200	160	19	92	82	5.0
80	90	200	160	19	95	85	5.5
100	90	220	180	19	95	85	6.8
100	110	220	180	19	95	85	6.2
100	125	220	180	19	97	87	7.0
125	110	250	210	19	95	85	7.8
125	125	250	210	19	97	87	8.2
125	140	250	210	19	103	93	8.5
150	140	285	240	19	103	93	11.3
150	160	285	240	19	115	105	10.5
150	180	285	240	19	125	115	11.6
200	200	340	295	20	135	125	18.0
200	225	340	295	20	138	128	16.0
250	250	400	350	22	155	145	22.0
250	280	400	350	22	158	148	29.0
300	315	455	400	24.5	185	175	44.0

**Material Specification:**

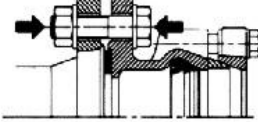
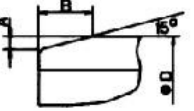
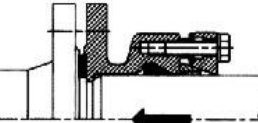
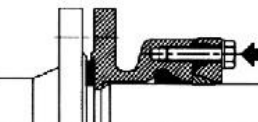
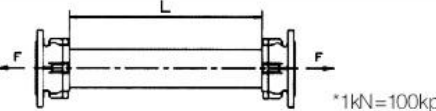
No.	Part Name	Material
1	Body	GGG450-10
2	Lip seal	EPDM
3	Spacer bush	PE
4	Grip ring	Brass MS58
5	Lock ring	GGG450-10
6	Bolts	Stainless steel



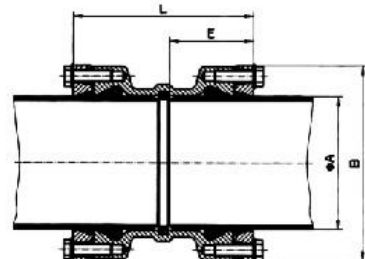
Note: Above flanges are PN10, flange PN16 are available.



**Assembly instructions:**

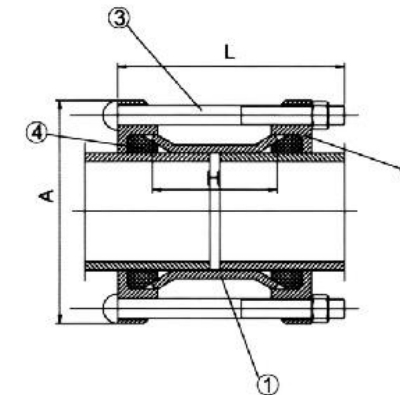
For flange adaptors: Bolt the flange to the mating flange first.																																											
Chamfer the pipe use lubricant (See page M 5/2) Do not use oil	 <table border="1"> <thead> <tr> <th>ΦD</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>63-40</td> <td>2.5</td> <td>10</td> </tr> <tr> <td>160-180</td> <td>4</td> <td>16</td> </tr> <tr> <td>200-225</td> <td>5</td> <td>20</td> </tr> <tr> <td>250-315</td> <td>7</td> <td>25</td> </tr> <tr> <td>355-450</td> <td>9</td> <td>35</td> </tr> </tbody> </table>	ΦD	A	B	63-40	2.5	10	160-180	4	16	200-225	5	20	250-315	7	25	355-450	9	35																								
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250-315	7	25																																									
355-450	9	35																																									
Push the pipe to the end of the socket. For thinwalled PE-pipes (up to 3mm wall thickness) and low internal pressure we recommend using a support liner																																											
Tighten the lock ring bolts crosswise until lock ring is tight on bushes.																																											
<b>Tensile Testing:</b> The following maximum tensile loads have been established.																																											
Test data: WESDOM test laboratory tensile testing machine HDPE pipe (PE 80) DIN 8075-ONORM B 5 172 PN10(Gas PN4) Data established by use of a support liner and under 0 bar internal pressure. Room temperature:23°C Speed of tensile test (mm/min.): 0.1 x the free pipe length (L)	<table border="1"> <thead> <tr> <th>Pipe ΦA mm</th> <th>Theoretical tensile load-(kN*)at 10bar internal pressure</th> <th>Max. Tensile load established in tests-(kN*)</th> </tr> </thead> <tbody> <tr><td>63</td><td>3.15</td><td>20</td></tr> <tr><td>75</td><td>4.42</td><td>28</td></tr> <tr><td>90</td><td>6.37</td><td>38</td></tr> <tr><td>110</td><td>9.50</td><td>58</td></tr> <tr><td>125</td><td>12.27</td><td>63</td></tr> <tr><td>140</td><td>15.40</td><td>66</td></tr> <tr><td>160</td><td>20.10</td><td>98</td></tr> <tr><td>180</td><td>25.45</td><td>130</td></tr> <tr><td>200</td><td>31.40</td><td>145</td></tr> <tr><td>225</td><td>39.80</td><td>453</td></tr> <tr><td>250</td><td>49.10</td><td>233</td></tr> <tr><td>280</td><td>61.60</td><td>215</td></tr> <tr><td>315</td><td>77.80</td><td>270</td></tr> </tbody> </table>	Pipe ΦA mm	Theoretical tensile load-(kN*)at 10bar internal pressure	Max. Tensile load established in tests-(kN*)	63	3.15	20	75	4.42	28	90	6.37	38	110	9.50	58	125	12.27	63	140	15.40	66	160	20.10	98	180	25.45	130	200	31.40	145	225	39.80	453	250	49.10	233	280	61.60	215	315	77.80	270
Pipe ΦA mm	Theoretical tensile load-(kN*)at 10bar internal pressure	Max. Tensile load established in tests-(kN*)																																									
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250	49.10	233																																									
280	61.60	215																																									
315	77.80	270																																									
This table shows the maximum end load capacity of a system 2000 connection, compared with the effective theoretical loads in a PE pipeline with 10 bar. A SYSTEM2000 connection provides a safety factor of 4 to 6 times!																																											

**Coupling**



Pipe ΦA mm	L	E	B	Weight kg
63	171	80	124	3.2
75	175	82	138	4.0
90	171	85	152	5.4
110	171	85	172	6.4
125	175	87	193	7.8
140	197	93	210	9.0
160	221	105	236	12.0
180	241	113	258	14.5
200	261	125	284	21.5
225	265	128	314	26.0
250	300	145	347	33.0
280	306	148	376	38.5
315	358	174	422	58.5
355	464	237	472	96.0

EN14525



**Universal coupling (wide range)**

Art. No.:VJ1601

No.	Reference	Material	Standard
1	Sleeve	Steel/ductile Iron	S235/EN1563
2	End ring	Ductile Iron GGG450-10	EN1563
3	Bolt and nut	Steel 8.8 Dacromet/Zincd	ISO898-1
4	Gasket	EPDM/NBR	EN681-1
5	Coating	FBE/Rilsan Nylon	EN14901

Pipe Norm	Range	Bolt		A mm	H mm	Weight kgs	Pipe to fit					
		L	No.				DI	ST	PVC	AC	CI	GRP
DN40	48-60	M12 x 170	2	150	98	2.4	★	▲				+
DN50	59-72	M12 x 170	2/4	156	98	2.5	★	▲	◆	○	+	
DN65	72-85	M12 x 170	2/4	174	98	3.2	★	▲	◆	○	+	
DN80	88-103	M12 x 180	4	185	98	4.0	●	★	▲	◆	○	+
DN100	96-116	M12 x 180	4	205	98	4.5	●	★	▲	◆		
DN100	108-120	M12 x 190	4	210	98	4.6	●	★	▲	◆		
DN100	105-125	M12 x 190	4	210	98	4.6	●	★	▲	◆	○	
DN100	109-128	M12 x 180	4	218	98	4.8	●	★	▲	◆	○	+
DN125	132-146	M12 x 180	4	240	98	6.1	★	▲				+
DN125	138-153	M12 x 180	4	246	98	6.2	★	▲			○	+
DN150	158-172	M12 x 200	4	275	105	7.0	●	★	▲			
DN150	155-175	M12 x 200	4	275	105	7.0	●	★	▲			
DN150	159-182	M12 x 200	4	280	110	7.2	●	★	▲	◆	○	+
DN175	192-210	M12 x 210	4	312	130	8.0	★	▲			○	
DN200	198-225	M12 x 210	4	320	130	9.5	●	★	▲	◆	○	+
DN200	218-235	M12 x 220	4/6	328	130	10.0	●	★	▲	◆	○	+
DN225	242-262	M12 x 220	6	360	130	12.0	★	▲	◆	○		
DN250	250-267	M12 x 220	6	368	130	14.0		★	▲	◆	○	
DN250	250-274	M12 x 220	6	370	130	14.0	●	★	▲	◆	○	+
DN250	274-289	M12 x 220	6	382	130	14.0	●	★	▲	◆	○	+
DN300	315-332	M12 x 220	6	430	130	16.5	●	★	▲	◆		+
DN300	322-339	M12 x 220	6	435	130	16.0	●	★	▲	◆	○	+
DN350	340-360	M12 x 220	6/8	455	130	20.0	★	▲	◆	○		
DN350	351-378	M14 x 230	8	510	130	23.0	●	★	▲	◆		+
DN350	374-391	M14 x 230	8	520	130	24.0	●					
DN400	390-410	M14 x 220	8	530	130	25.0	★	▲	◆			
DN400	398-430	M14 x 270	8	560	140	26.0	●	★	▲	◆	○	+
DN400	417-437	M14 x 240	8	555	130	28.0	●			◆	○	+
DN400	425-442	M14 x 270	8	560	130	28.0	●				○	+
DN450	450-463	M14 x 270	8	585	130	30.0	★	▲	◆	○		
DN450	455-475	M14 x 270	10	600	130	32.0	★			◆		
DN450	476-500	M14 x 270	10	620	130	36.0	●	★	▲	◆	○	
DN500	500-508	M16 x 270	10	620	130	38.0	★			◆	○	
DN500	500-533	M14 x 280	10	680	140	39.0	●	★	▲	◆		+
DN500	526-546	M14 x 270	10	663	130	40.0	●			◆	○	+
DN600	600-630	M14 x 270	10	725	130	47.0	★	▲	◆	○		
DN600	608-636	M14 x 270	10	740	130	48.0	●	★	▲	◆		+
DN600	630-650	M14 x 270	10	745	130	50.0	●	★	▲		○	
DN700	710-739	M16 x 280	12	875	155	70.0	●	★	▲		○	+
DN800	816-842	M16 x 330	12	986	180	80.0	●			◆	○	+

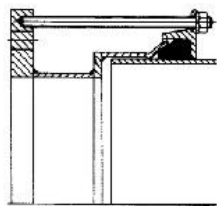
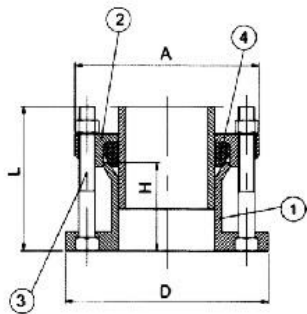


EN14525

**Universal flange adaptor (wide range)**

Art. No.:VJ1601

No.	Reference	Material	Standard
1	Body	Ductile Iron GGG450-10	EN1563
2	End ring	Ductile Iron GGG450-10	EN1563
3	Bolt and nut	Steel 8.8 Dacromet/Zincod	ISO 898-1
4	Gasket	EPDM/NBR	EN681-1
5	Coating	FBE/Rilsan Nylon	EN14901



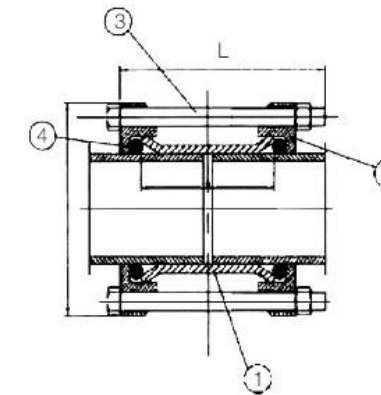
Pipe Norm	Range	Pressure Flange	Bolt L	No.	A mm	D mm	H mm	Weight kgs	Pipe to fit					
									DI	ST	PVC	AC	CI	GRP
DN40	48-60	PN10/16	M12 x 130	2	150	150	80	2.8	★	▲				+
DN50	59-72	PN10/16	M12 x 130	2	156	165	80	3.0	★	▲	◆	○	+	+
DN65	72-85	PN10/16	M12 x 130	2	174	190	80	3.9	★	▲			○	+
DN80	88-103	PN10/16	M12 x 130	4	185	200	80	4.8	●	★	▲	◆	○	+
DN100	96-116	PN10/16	M12 x 130	4	205	220	80	5.0	●	★	▲	◆		
DN100	108-120	PN10/16	M12 x 130	4	210	220	80	5.3	●	★	▲	◆		
DN100	105-125	PN10/16	M12 x 140	4	210	220	80	5.3	●	★	▲	◆	○	
DN100	109-128	PN10/16	M12 x 130	4	218	220	80	5.5	●	★		◆	○	+
DN125	132-146	PN10/16	M12 x 140	4	240	250	80	6.5	★					+
DN125	138-153	PN10/16	M12 x 140	4	246	250	80	6.6	★				○	+
DN150	158-172	PN10/16	M12 x 140	4	275	285	80	7.5	●	★	▲			
DN150	155-175	PN10/16	M12 x 140	4	275	285	80	7.5	●	★	▲			
DN150	159-182	PN10/16	M12 x 140	4	280	285	80	7.6	●	★	▲	◆	○	+
DN175	192-210	PN10/16	M12 x 140	4	312	340	80	11.0	★	▲			○	
DN200	192-210	PN10/16	M12 x 140	4	312	340	80	11.2	★	▲			○	
DN200	198-225	PN10/16	M12 x 140	4	320	340	80	12.0	●	★	▲		○	+
DN200	218-235	PN10/16	M12 x 140	4	328	340	80	10.6	●	★	▲	◆	○	+
DN250	242-262	PN10/16	M12 x 140	6	360	400	85	14.0	★	▲	◆	○		
DN250	250-267	PN10/16	M12 x 140	6	368	400	85	14.5	★	▲	◆	○		
DN250	250-274	PN10/16	M12 x 150	6	370	400	85	14.8	●	★	▲	◆	○	+
DN250	272-289	PN10/16	M12 x 150	6	382	400	85	14.9	●	★	▲	◆	○	+
DN300	315-332	PN10/16	M12 x 150	6	430	455	85	17.9	●	★	▲	◆	○	+
DN300	322-339	PN10/16	M12 x 150	6	435	455	85	17.0	●	★	▲	◆	○	+
DN300	340-360	PN16	-M12 x 170	6	455	455	85	35.0	★	▲	◆	○		
DN350	340-360	PN10/16	M14 x 190	8	455	520	115	28.0	★	▲	◆	○		
DN350	351-378	PN10/16	M14 x 170	8	510	520	108	28.0	●	★	▲	◆	○	+
DN350	374-391	PN10/16	M14 x 180	8	520	520	108	30.4	●					
DN400	390-410	PN10/16	M14 x 150	8	530	580	108	33.5	★	▲	◆			
DN400	398-430	PN10/16	M14 x 210	8	560	580	108	34.0	●	★	▲	◆	○	+
DN400	417-437	PN10/16	M14 x 180	8	555	580	108	35.0	●			◆	○	+
DN400	425-442	PN10/16	M14 x 180	8	560	580	108	34.1	●				○	+
DN400	450-463	PN16	-M14 x 180	8	585	580	108	40.0	★	▲	◆	○		
DN450	455-475	PN10/16	M14 x 180	10	600	640	108	32.0	★		◆			
DN450	476-500	PN10/16	M14 x 180	10	620	640	108	34.0	●	★	▲	◆	○	
DN500	500-508	PN10/16	M14 x 180	10	620	715	114	49.5	★	▲	◆	○		
DN500	500-533	PN10/16	M14 x 210	10	680	715	124	50.0	●	★	▲			+
DN500	526-546	PN10/16	M14 x 180	10	663	715	114	49.0	●			◆	○	+
DN600	600-630	PN10/16	M14 x 180	10	725	840	114	60.0	★	▲	◆	○		
DN600	608-636	PN10/16	M14 x 200	10	740	840	130	78.2	●	★	▲			+
DN600	630-650	PN10/16	M14 x 180	10	745	840	118	66.5	●	★	▲		○	
DN700	710-739	PN10/16	M16 x 180	12	875	910	114	72.0	●	★	▲		○	+
DN800	816-842	PN10/16	M16 x 230	12	986	1025	128	120				◆	○	+

Note: 1. \*\*\* New developed range. 2. Flange drilling PN25 and Ansi C150 available.

EN14525

**Ductile iron pipe joints**

**Gibault joint for PVC pipes**



Pressure: PN10/PN16  
Field: Water and Irrigation  
Coating: Epoxy FBE/Bitumen



No.	Reference	Material
1	Sleeve	Ductile iron/Grey iron
2	End ring	Ductile iron/Grey iron
3	Bolt & Nut	Steel zincod/Dacromet
4	Gasket	EPDM/NBR

Art. No.: WD7610

Size	Bolt		A mm	H mm	Weight kg
	L	Qty			
DE63	M10 x 160	2	147	90	1.5
DE75	M10 x 160	2	149	90	1.7
DE90	M10 x 170	2	164	100	2.0
DE110	M10 x 180	3	184	100	2.8
DE125	M12 x 180	3	199	100	3.4
DE140	M12 x 200	3	214	116	3.9
DE160	M12 x 210	3	234	130	5.5
DE180	M12 x 220	3	254	140	7.0
DE200	M12 x 230	3	274	150	8.5
DE250	M14 x 250	3	341	155	12.5
DE315	M14 x 260	4	406	170	18.0
DE400	M14 x 280	6	495	180	20.0
DE500	M14 x 280	8	592	180	24.0

**Stopped flange adaptor for PVC/PE pipe**

Stopped material: Ductile with dacromet

Pressure: DN 10/16

Size: DN63-315



Art. No.: WD7620

**Flange adaptor for PVC pipe**

Material: GGG100-10 with FBE coating

Pressure: DN 10/16

Size: DN63-315



Art. No.: Wd7630

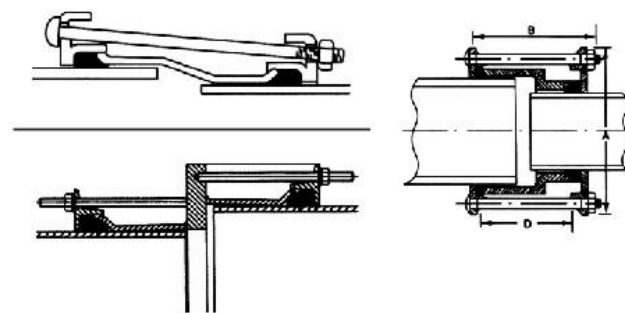


EN14525

Stepped coupling (wide range/dedicated)



Wide range sizes	DN50-600
Dedicated type sizes	DN80-1200
Max. Pressure	16bar



Art. No.: VJ4610

Nominal bore (mm)	Nominal bore (mm)	Approx mass (kg)
50/65	59-72/72-85	2.6
65/80	72-85/88-103	3.0
80/100	88-103/109-128	4.6
100/125	109-125/138-153	5.2
125/150	138-153/159-182	6.4
150/175	159-182/192-210	7.2
175/200	192-210/218-238	12.4
200/250	218-235/250/267	16.8
250/250+	242-262/272-289	22.4
250/300	272-289/315-332	30.0
*200/250	190-230/215-258	20.0

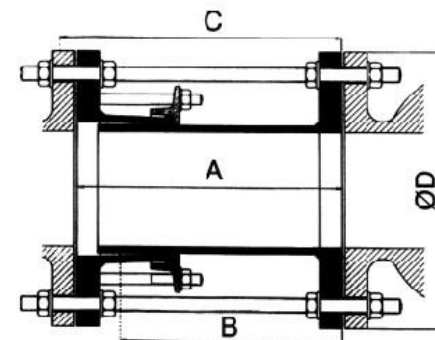
Dismantling joint VJ type

Pressure: PN10, PN16, PN25, PN40

Material: Ductile iron or fabricated carbon steel

Size: DN50-DN600

Art. No.: VJ5610



BSEN545/ISO2531

Saddle clamp for ductile iron pipes



Specification

No.	Part	Material
1	Upper Body	GGG450-10
2	Lower Body	GGG450-10
3	Gasket	EPDM
4	Gasket support	Brass MS58
5	Bolt/nuts	Steel Zincd

Art. No.: WD4710

Main pipe DN	Thread Outlet	Ductile iron OD	Asbestos cement Max. OD
80	3/4"-1"-1 1/4"-1 1/2"	98	96
100	1"-1 1/4"-1 1/2"-2"	118	122
125	1"-1 1/4"-1 1/2"-2"	144	148
150	1"-1 1/4"-1 1/2"-2"	170	174
175	1"-1 1/4"-1 1/2"-2"	195	199
200	1"-1 1/4"-1 1/2"-2"	222	226
250	1"-1 1/4"-1 1/2"-2"-2 1/2"-3"	274	278
300	1"-1 1/4"-1 1/2"-2"-2 1/2"-3"	326	330

Saddle for PVC pipes



Pressure: PN10/PN16  
Material: Grey iron GG20  
Coating: Epoxy FBE/Bitumen  
Field: Water and Irrigation

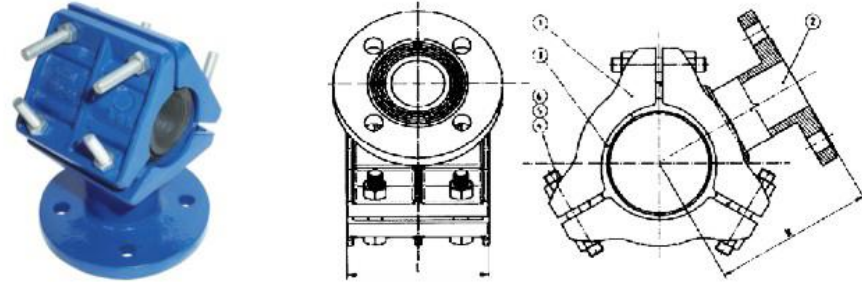
Art. No.: WD4720

Main pipe DN	Thread Outlet
40	3/4"
40	1"
50	3/4"-1"
63	3/4"-1"
75	3/4"-1"
75	1 1/4"-1 1/2"
90	3/4"-1"
90	1 1/4"-1 1/2"
110	3/4"-1"-1 1/4"-1 1/2"
110	2"-2 1/2"-3"
125	3/4"-1"-1 1/4"-1 1/2"
125	2"-2 1/2"-3"
140	3/4"-1"-1 1/4"-1 1/2"
140	2"-2 1/2"-3"
160	3/4"-1"-1 1/4"-1 1/2"
160	2"-2 1/2"-3"
180	1"-1 1/4"-1 1/2"
180	2"-2 1/2"-3"
200	1"-1 1/4"-1 1/2"
200	2"-2 1/2"-3"
250	1"-1 1/4"-1 1/2"
250	2"-2 1/2"-3"
315	2"-2 1/2"-3"



BSEN545/ISO2531

Triple tapping saddle



Art. No.: WD4810

DN	Diameter [mm] min.-max.	Weight [kg]	Bolts	Length [mm] L	Flange DN	H [mm]
80	87-106	14.50	6 x M16	170	50-60	1/2 D+ 190
100	108-126	16.50	6 x M16	170	50-80	1/2 D+ 190
125	135-160	24.00	6 x M16	185	50-100	1/2 D+ 190
150	159-184	25.00	6 x M16	220	50-125	1/2 D+ 190
175	190-220	26.00	9 x M16	275	50-150	1/2 D+ 190
200	210-240	31.00	9 x M16	275	50-150	1/2 D+ 190
225	240-255	32.00	9 x M16	280	50-150	1/2 D+ 190
250	250-288	68.00	9 x M20	365	50-150	1/2 D+ 190
275	290-312	75.00	9 x M20	365	50-150	1/2 D+ 190
300	312-345 or 302-335	82.00	12 x M20	420	50-150	1/2 D+ 190
350	360-390 or 350-380	100.00	12 x M20	425	50-150	1/2 D+ 190
400	410-460 or 400-450	117.00	12 x M20	430	50-150	1/2 D+ 190
450	460-510 or 450-500	125.00	12 x M20	420	50-200	1/2 D+ 190
500	510-570 or 500-560	140.00	12 x M20	420	50-200	1/2 D+ 190
550	570-620 or 560-610	145.00	12 x M20	420	50-200	1/2 D+ 190
600	620-680 or 610-670	150.00	12 x M20	420	50-200	1/2 D+ 190
700	730-800 or 720-790	170.00	12 x M20	420	50-200	1/2 D+ 190
800	810-860 or 800-850	190.00	12 x M20	420	50-200	1/2 D+ 190

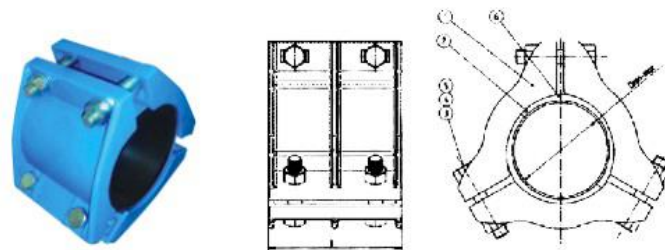
Universal triple repair clamp

Use:

Connections and repair pipes made of various materials.

Materials:

1. -Body -ductile cast iron protected with epoxy powder coating.
2. -Gasket -EPDM of NBR rubber.

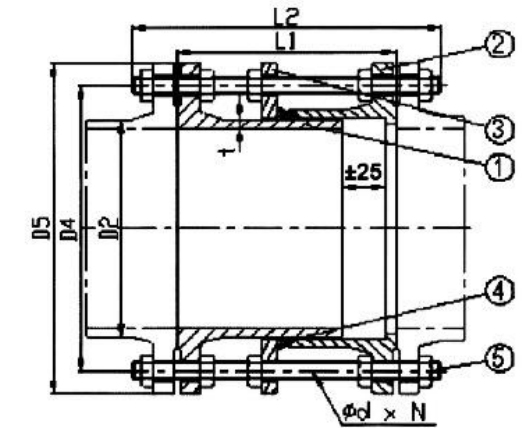


Art. No.: WD4810

DN	Diameter [mm] min.-max.	Weight [kg]	Bolts	Length [mm] L
60	65-82	8.00	6 x M12	140
80	87-106	9.50	6 x M16	170
100	108-126	11.50	6 x M16	170
125	135-160	19.00	6 x M16	185
150	159-184	18.00	6 x M16	220
175	190-220	20.00	9 x M16	275
200	210-240	23.00	9 x M16	275
225	240-255	24.00	9 x M16	280
250	250-288	60.00	9 x M20	365
275	290-312	65.00	9 x M20	365
300	312-345 or 302-335	72.00	12 x M20	420
350	360-390 or 350-380	90.00	12 x M20	425
400	410-460 or 400-450	107.00	12 x M20	430
450	460-510 or 450-500	115.00	12 x M20	420
500	510-570 or 500-560	130.00	12 x M20	420
550	570-620 or 560-610	135.00	12 x M20	420
600	620-680 or 610-670	140.00	12 x M20	420
700	730-800 or 720-790	160.00	12 x M20	420
800	810-860 or 800-850	180.00	12 x M20	420

BSEN545/ISO2531

Dismantling joint rigid type flange drilled to PN10



No.	Part name	Material
1	Flange spigot	Ductile iron GGG400-10
2	Flange body	Ductile iron GGG400-10
3	Retainer	Ductile iron GGG400-10
4	Gasket	EPDM/NBR
5	Tie rod	Steel zincd / dacromet

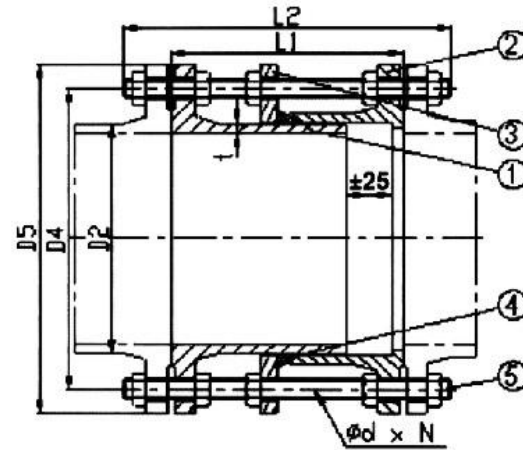
Art. No.: WD8610

DN	D2	D4	D5	L1	L2	d(Φ)	N	t	WT(kg)
50	62	125	165	180	330	M16	4	6.0	8.0
65	78	145	185	180	330	M16	4	6.0	12.0
80	98	160	200	200	340	M16	8	7.0	16.0
100	118	180	220	200	340	M16	8	7.5	19.0
125	144	210	250	200	340	M16	8	7.5	20.0
150	170	240	285	200	340	M20	8	8.0	29.0
200	222	295	340	220	350	M20	8	8.5	37.0
250	274	350	400	230	370	M20	12	9.0	51.0
300	326	400	455	230	390	M20	12	10.0	63.0
350	378	460	505	260	400	M20	16	10.5	83.0
400	429	515	565	260	420	M24	16	11.0	100.0
450	480	565	615	270	435	M24	20	11.5	125.0
500	532	620	670	280	440	M24	20	12.0	132.0
600	635	725	780	300	460	M27	20	13.5	185.0
700	738	840	895	300	480	M27	24	14.5	226.0
800	842	950	1015	320	500	M30	24	16.0	305.0
900	945	1050	1115	320	500	M30	28	17.0	375.0
1000	1048	1160	1230	340	545	M33	28	18.0	425.0
1100	1152	1270	1340	350	545	M33	32	19.5	600.0
1200	1255	1380	1455	360	580	M36	32	20.5	651.0
1400	1462	1590	1675	390	680	M39	36	23.0	917.0
1500	1565	1700	1785	410	680	M39	36	24.0	1200.0
1600	1668	1820	1915	420	700	M45	40	25.5	1285.0
1800	1875	2020	2115	440	720	M45	44	28.0	2050.0
2000	2082	2230	2325	460	720	M45	48	30.0	2500.0



BSEN545/ISO2531

Dismantling joint rigid type flange drilled to PN16



No.	Partname	Material
1	Flange spigot	Ductile iron GGG400-10
2	Flange body	Ductile iron GGG400-10
3	Retainer	Ductile iron GGG400-10
4	Gasket	EPDM/NBR
5	Tie rod	Steel zincd / dacromet

Art. No.: WD8616

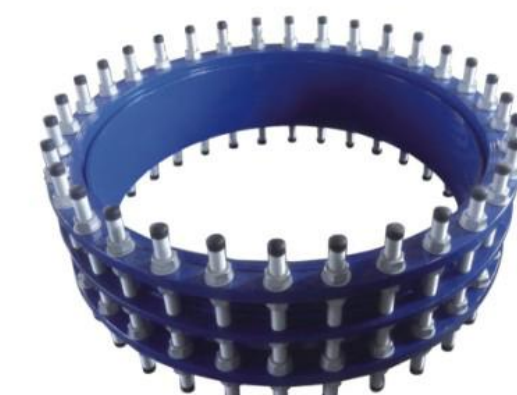
DN	D2	D4	D5	L1	L2	d(Φ)	N	t	WT(kg)
50	62	125	165	180	330	M16	4	6.0	8.0
65	78	145	185	180	330	M16	4	6.0	12.0
80	98	160	200	200	340	M16	8	7.0	16.0
100	118	180	220	200	340	M16	8	7.5	19.0
125	144	210	250	200	340	M16	8	7.5	20.0
150	170	240	285	200	340	M20	8	8.0	29.0
200	222	295	340	220	350	M20	12	8.5	41.0
250	274	355	400	230	380	M24	12	9.0	58.0
300	326	410	455	230	400	M24	12	10.0	70.0
350	378	470	520	260	410	M24	16	10.5	93.0
400	429	525	580	260	430	M27	16	11.0	120.0
450	480	585	640	270	450	M27	20	11.5	150.0
500	532	650	715	280	460	M30	20	12.0	200.0
600	635	770	840	300	500	M33	20	13.5	279.0
700	738	840	910	300	500	M33	24	14.5	280.0
800	842	950	1025	320	530	M36	24	16.0	385.0
900	945	1050	1125	320	530	M36	28	17.0	460.0
1000	1048	1170	1255	340	570	M39	28	18.0	580.0
1100	1152	1270	1355	350	570	M39	32	19.5	700.0
1200	1255	1390	1485	360	620	M45	32	20.5	860.0
1400	1462	1590	1685	400	680	M45	36	23.0	1020.0
1500	1565	1710	1820	400	700	M52	36	24.0	1400.0
1600	1668	1820	1930	440	750	M52	40	25.5	1600.0
1800	1875	2020	2130	440	750	M52	44	28.0	2100.0
2000	2082	2230	2345	460	750	M56	48	30.0	2650.0

BSEN545/ISO2531

Dismantling joint Class PN25

Art. No.: WD8625

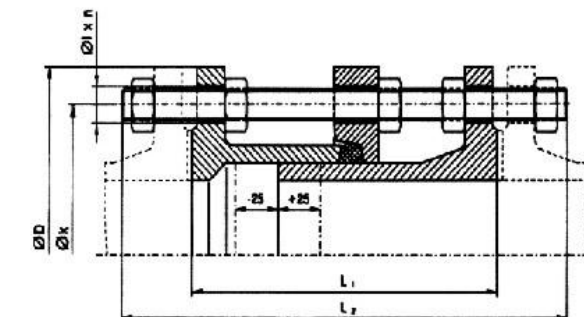
DN	D	k	n	l	L1	L2	Gewicht weight
mm	mm	mm		mm	mm	mm	kg
80	200	160	8	19	200	340	25
100	235	190	8	23	200	340	29
125	270	220	8	28	200	340	36
150	300	250	8	28	200	350	49
200	360	310	12	28	220	370	73
250	425	370	12	31	230	390	106
300	485	430	16	31	245	410	130
350	555	490	16	34	250	430	180
400	620	550	16	37	260	460	223
450	670	600	20	37	275	480	266
500	730	660	20	37	280	480	340
600	845	770	20	40	305	530	465
700	960	875	24	43	305	540	515
800	1085	990	24	49	330	590	672
900	1185	1090	28	49	330	600	767
1000	1320	1210	28	56	350	640	1008
1200	1530	1420	32	56	380	680	1500



Dismantling joint Class PN40

Art. No.: WD8640

DN	D	k	n	l	L1	L2	Gewicht weight
mm	mm	mm		mm	mm	mm	kg
80	200	160	8	19	230	380	29
100	235	190	8	23	240	390	35
125	270	220	8	28	240	390	43
150	300	250	8	28	250	400	56
200	375	320	12	31	250	400	96
250	450	385	12	34	270	440	132
300	515	450	16	34	270	440	169
350	580	510	16	37	290	460	241
400	660	585	16	40	300	500	289
450	685	610	20	40	300	500	380
500	755	670	20	43	320	510	452
600	890	795	20	49	340	550	588
700	995	900	24	49	380	570	635
800	1140	1030	24	56	380	620	842
900	1250	1140	28	56	380	620	946
1000	1360	1250	28	56	420	670	1450
1200	1575	1460	32	62	450	720	1665





BSEN545/ISO2531

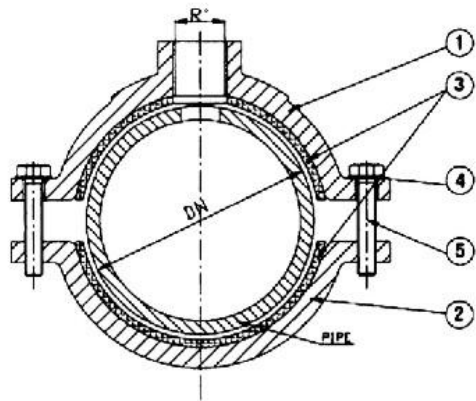
Ductile iron saddle for PVC/PE pipe



No.	Reference	Material	Standard
1	Body	GGG450-10	EN1563
2	Cover	GGG450-10	EN1563
3	Gasket	EPDM/NBR	EN681
4	Washer	SS A2-70	
5	Bolt	SS A2-70	

Art. No.: WD4120

Weight Pipe	R"	Pipe				
		3/4"	1"	1 1/4"	1 1/2"	2"
DN50	1.35	1.35	1.35	1.35	1.35	
DN63	2.00	2.00	2.00	2.00	2.00	2.00
DN75	2.35	2.35	2.35	2.35	2.35	2.35
DN90	2.50	2.50	2.50	2.50	2.50	2.50
DN110	3.80	3.80	3.80	3.80	3.80	3.80
DN125	4.70	4.70	4.70	4.70	4.70	4.70
DN140	5.70	5.70	5.70	5.70	5.70	5.70
DN160	6.15	6.15	6.15	6.15	6.15	6.15
DN180	8.70	8.70	8.70	8.70	8.70	8.70
DN200	9.80	9.80	9.80	9.80	9.80	9.80
DN225	13.50	13.50	13.50	13.50	13.50	13.50
DN250	15.00	15.00	15.00	15.00	15.00	15.00
DN315	19.00	19.00	19.00	19.00	19.00	19.00



Cast Iron Flange Saddle Clamp



Saddle with flange outlet for DI/PVC/PE pipe

Material: GGG450-10

Coating: FBE/Painting

Size: DE63-315

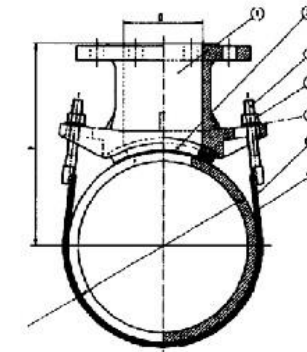
Pressure: PN10/PN16

Quick saddle for PVC pipes



BSEN545/ISO2531

- Ductile iron GGG-40 epoxy coated outlet flange.
- EPDM gasket according to UNE EN 681/1.
- Mechanical insertion of the gasket in order to guarantee major watertightness.



ANSI-304 stainless steel strap

Saddle range for flange head type

Art. No.: WD3210

DN	Main Pipe	PN	Bards No.
40	80/1000	10-16	2
50	80/700	10-16	2
60/65	100/700	10-16	2
80	125/700	10-16	2
100	150/500	10-16	2
125	200/600	10-16	2
150	300/500	10-16	3
150	500/900	10-16	3



Saddle range for thread head type

Art. No.: WD3200

Main Pipe OD range(mm)	Saddle 3 size(mm)		
	50-200	100-300	150-400
60-77	●		
77-95	●		
98-119	●		
125-135	●	●	
139-160	●	●	
150-180	●	●	
170-195	●	●	
200-230		●	●
230-250		●	●
250-280		●	●
285-315		●	●
315-340		●	●
355-380		●	●
385-410		●	●
410-435		●	●
Tapping thread	1/2-1"	1/2-2"	1-3"





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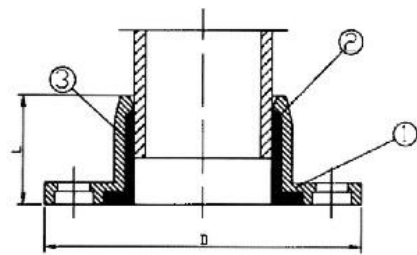
**Quick flange adaptor for PE/PVC pipe (and DI pipe)**



For PVC pipe



For PE pipe



**Art. No.: WD5210**

No.	Name	Material	Standard
1	Body	Ductile iron	EN1563
2	Rubber	EPDM/NBR	EN681-1
3	Grip ring	Brass	Cuzn36Pb3

PN10/PN16(Multi flange holes)				
Size	Pipe OD	L	D	Weight(kg)
DN40-50	50	50	165	1.7
DN50	63	55	165	1.8
DN60-65	63	55	185	2.4
DN60-65	75	58	185	2.2
DN80	90	60	200	2.8
DN100	110	68	220	4.0
DN125	125	70	250	4.2
DN125	140	75	250	4.1
DN150	160	80	285	6.5
DN200	200	90	340	8.5
DN200	225	93	340	8.0
DN250	250	95	400	12.5
DN300	315	100	455	15.0
DN400	400	120	580	25.0



**Major stop flange adaptor**



**Art. No.: WD5310**



**Quick adaptor for DI pipes**



Simple version



Anchored version

**Art. No.: WD5410**



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To provide products, services and solutions while implementing sustainable development, to energy conservation and environmental protection for the benefit of society

