TECHNICAL INFORMATION

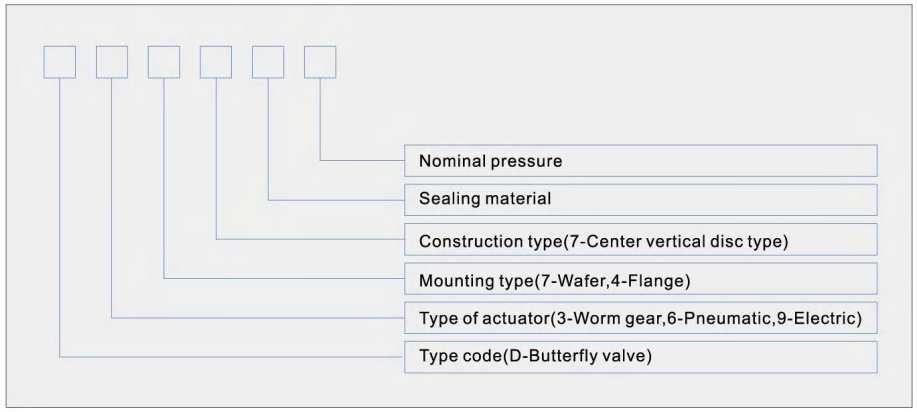
Features

1.The buyer can select material as per the following table.
2.The customer may mark the material and temperature used,Our company may select instead.
3.When the medium and temperature is special,please consult with our company.

Material of main parts

Body	DISC	Stem	Bushing	Seat	Pin	Ring
Grey cast iron Standard ASTM A126 BS1452 DN1691 GB12226-89	Ductile cast iron ASTM A536 65-45-12 Bronze ASTM B148 C954 Stainless steel ASTM A351 CF8M 316 410 GB12238-89 Ceramic	Stainless steel ASTM A433 316 410 Carbon steel	Lubericated Bronze ASTM B438 PTFE (Taflon)	EPDM BUNA Neoprene PTFE Food glue	Stainless steel ASTM A433 316 410	EPDM BUNA

Meanings of type



Remitted using temperature for sealing rubber

Rubber code	(NR) natural-P	(JIR) buta-D1	(BUNA) buta-D	(CR) chlo-L	(EPDM) levu-Y	(SI) silicon-G	(FIPM) fluorine-F	chla-alcohol		F4
								F1	F2	
High-temperature resistance	70	100	100	100	120	250	230	100	100	200
Low-temperature resistance	−50	−40	−20	−40	−40	−100	−10	−30	−30	−50

Recommended selecting table for sealing rubber

Name	Temperature	P	D1	D	L	Y	G	F	F1	F2	F4
Sea Water	90	–	A	A	A	A	–	–	A	A	A
Underground Water	RT	A	A	A	A	A	–	–	A	A	A
Hot spring water	90	–	A	A	A	A	–	–	–	–	A
Vapour	155	–	–	–	–	–	A	A	–	–	A
Ammonia water	RT	A	–	A	A	A	–	–	–	–	A
Ammonia gas	RT	A	–	–	A	A	–	–	–	–	A
Hydrochloric acid (10%)	RT	A	A	A	A	A	–	–	A	A	A
Dry chlorine gas	RT	–	–	–	–	–	–	A	–	–	A
Wet chlorine gas	RT	–	–	–	–	–	–	B	–	–	A
Nitric acid (10%)	RT	–	–	B	A	–	–	A	–	–	A
Sulphuric acid (10%)	RT	–	A	–	A	A	–	A	–	–	A
Sulphuric acid (30%)	RT	–	–	–	A	A	–	A	–	–	A
Alcohol	RT	A	A	A	A	A	–	A	–	–	A
Sodium (50%)	RT	A	A	A	A	A	–	A	A	A	A
Lubericate oil	70℃	–	–	A	–	–	–	A	A	A	A
Fuel oil	RT	–	–	A	–	–	–	A	A	A	A
Heavy oil	RT	–	–	A	–	–	–	A	A	A	A
Gasoline	RT	–	–	–	–	–	–	A	–	–	A
Tar	RT	–	–	–	–	–	–	A	–	–	A
oxygen	RT	–	–	–	–	–	–	A	–	–	A
CO_2 gas	RT	A	A	A	A	A	–	–	A	A	A
Natural gas	RT	–	–	A	A	–	–	A	–	–	A
Coking coal gas	RT	–	–	–	–	–	–	A	–	–	A
Food and drink	RT	A	A	–	A	–	A	–	–	–	A

NOTE:
RT Atmosphoric temperature,A Recommended use,B Selected use depend upon condition;"-" Recomended no selecting use.It is only the major rubber variety of our LTD products in above table (The space item is only for references)If you will select other rubber variety,please discuss with us face to face.

B10 SERIES BUTTERFLY VALVE

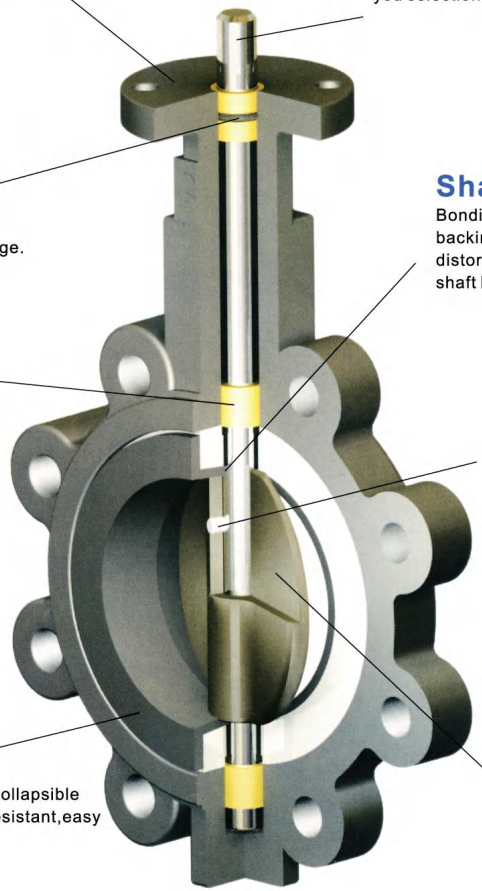
B10 Series Butterfly Valve with hard phenolic seat,pin or splined connection between disc and stem,both wafer and lug style.

Top Flange:

Top flange as per ISO5211 standard can suit for all kinds of actuators such as handles,gear box,electric actuator and pneumatic actuators.

Stem Configuration:

Round with key,Square and double"D"for you selection.



O ring:

Prevent stem from leakage.

Shaft Seal:

Bonding of elastomer to phenolic backing ring protects against distortion,a common cause of shaft leakage.

Bushing:

Stem bushing reduces valve torque,isolate the stem from the valve body,prevent the stem from corrosion.PTFE or Bronze material stem bushing for you selection.

Connection Between disc and shaft:

The pin,spline or square connection are all available.Spline or square eliminates shaft components being exposed to the line media,Maximum flow is achieved.

Seat(Liner):

Phenolic back seat,noncollapsible type,with good stretch resistant,easy to replaceable.

Disc:

Precision profile disc provides bubble-tight shut-off and assures minimum torque value and long seal lift.

Technical Data

Size	DN40-DN1200
General Design	API609*
Mounting Pad	ISO 5211
Face to Face	API609;EN558 1-20series etc.*
Flange Drilling	DIN 2501 PN10/PN16 *
Inspection and Test	API598

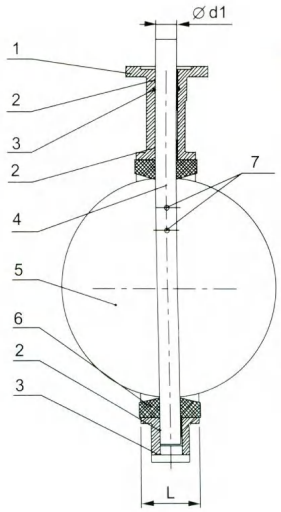
* All available General Design and Face to Face Standard kindly refer to the Basic Specification of Eathu.
* All available Flange drilling kindly refer to the attached Flange Drilling Dimensions.

Fig.B10L

Fig.B10U

Product Features

Wafer,lug or U type flanged body style fit between FF or RF flanges
PTFE bushing ensure the maximum shaft support and centralized alignment.
360°polished disc assures positive on-off
Hard-Backed Cartridge Seat
One piece shaft,pinned and splined disc.
Universal ISO 5211 mounting Pad.



Material List

Parts	Description	Material	Specification	
1	Body	Cast Iron	A126 Class B	*
2	Bushing	PTFE		*
3	O ring	EPDM		*
4	Shaft	Stainless Steel	AISI 316	*
5	Disc	Stainless Steel	A351 CF8M	*
6	Seat	EPDM		*
7	Pin	Stainless Steel	AISI 316	*

* Other material request kindly refer to Bill of Main Materials of Eathu

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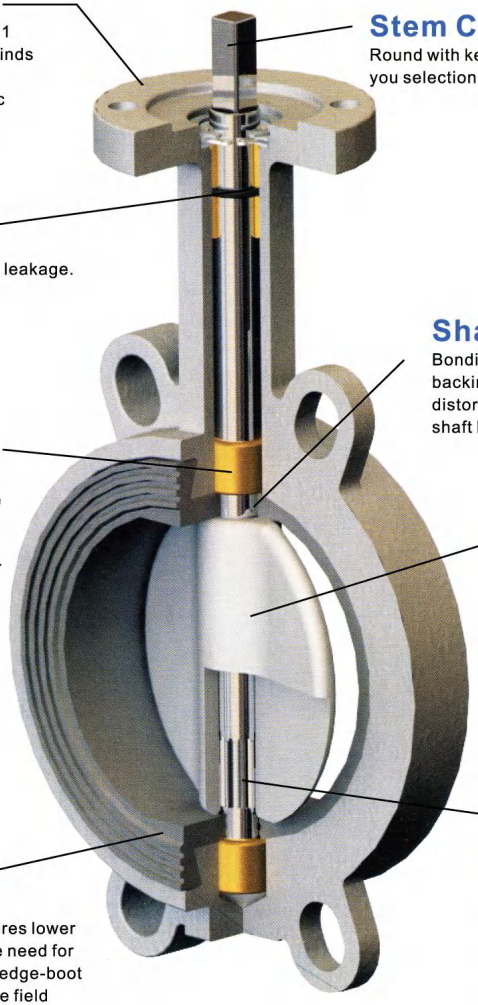
B20 SERIES BUTTERFLY VALVE

B20 Series Butterfly Valve with edge boot seat,pin or splined connection between disc and stem,both wafer and lug style.

Top Flange:
Top flange as per ISO5211 standard can suit for all kinds of actuators such as handles,gear box,electric actuator and pneumatic actuators.

Stem Configuration:
Round with key,Square and double"D"for you selection.

O ring:
Prevent stem from leakage.



Shaft Seal:
Bonding of elastomer to phenolic backing ring protects against distortion,a common cause of shaft leakage.

Bushing:
Stem bushing reduces valve torque,isolate the stem from the valve body,prevent the stem from corrosion.PTFE or Bronze material stem bushing for you selection.

Disc:
Precision profile disc provides bubble-tight shut-off and assures minimum torque value and long seal life.

Connection between disc and shaft:
The pin and spline connection are all available.

Seat(Liner):
The edge-boot seat features lower torque and eliminates the need for flange gasket,the way of edge-boot seat with valve body make field replacement simple and fast.

Technical Data

Size	DN50-DN300
General Design	API609*
Mounting Pad	ISO 5211
Face to Face	API609;EN558 1-20series etc.*
Flange Drilling	DIN 2501 PN10/PN16*
Inspection and Test	API598

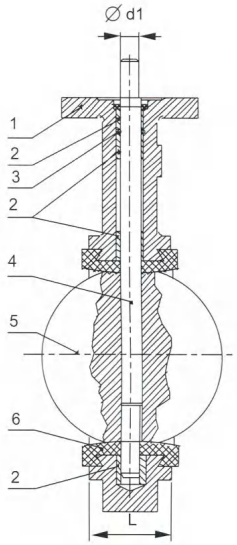
* All available General Design and Face to Face Standard kindly refer to the Basic Specificationof Eathu.
* All available Flange drilling kindly refer to the attached Flange Drilling Dimensions.

Fig.B20L

Product Features

Wafer or lug body style fit between FF or RF flanges PTFE bushing ensure the maximum shaft support and centralized alignment.
360°polished disc assures positive on-off
Edge-Boot Seat
One piece shaft,pinned and splined disc.
Universal ISO 5211 mounting Pad.

Fig.B20W



Material List

Parts	Description	Material	Specification	
1	Body	Cast Iron	A126 Class B	*
2	Bushing	PTFE		*
3	O ring	EPDM		*
4	Shaft	Stainless Steel	AISI 316	*
5	Disc	Stainless Steel	A351 CF8M	*
6	Seat	EPDM		*

* Other material request kindly refer to Bill of Main Materials of Eathu.

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FLUIDO

QINGDAO FLUIDO INDUSTRIAL CO LTD

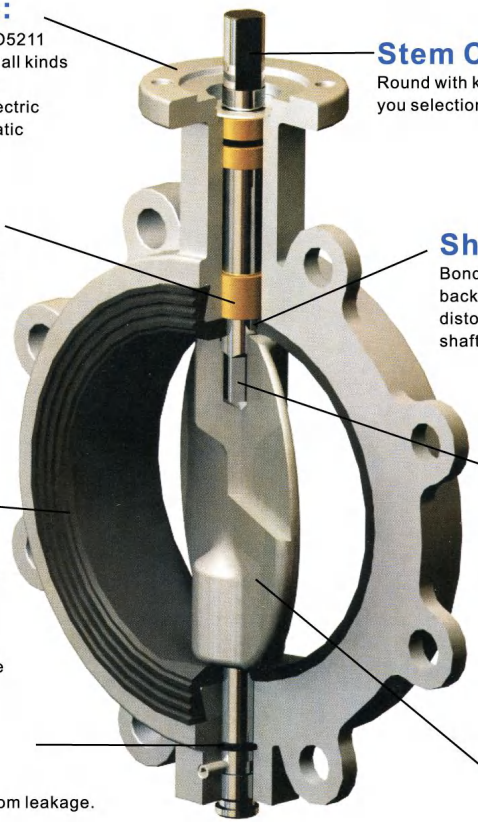
B30 SERIES BUTTERFLY VALVE

B30 Series Butterfly Valve with two piece stem connection between disc and stem,hard phenoic seat for DN25-DN40,edge boot seat for DN50-DN600,both wafer and lug style.

Top Flange:
Top flange as per ISO5211 standard can suit for all kinds of actuators such as handles,gear box,electric actuator and pneumatic actuators.

Stem Configuration:
Round with key,Square and double"D"for you selection.

Bushing:
Stem bushing reduces valve torque,isolate the stem from the valve body,prevent the stem from corrosion.PTFE or Bronze material stem bushing for you selection.



Shaft Seal:
Bonding of elastomer to phenolic backing ring protects against distortion,a common cause of shaft leakage.

Seat(Liner):
The edge-boot seat features lower torque and eliminates the need for flange gasket,the way of edge-boot seat with valve body make field replacement simple and fast.

Connection between disc and shaft:
The square connection eliminates shaft components being exposed to the line media,Maximum flow is achieved.

O ring:
Prevent stem from leakage.

Disc:
Precision profile disc provides bubble-tight shut-off and assures minimum torque value and long seal life.

Technical Data

Size	DN25-DN600
General Design	API609*
Mounting Pad	ISO 5211
Face to Face	API609;EN558 1-20series etc.*
Flange Drilling	DIN 2501 PN10/PN16*
Inspection and Test	API598

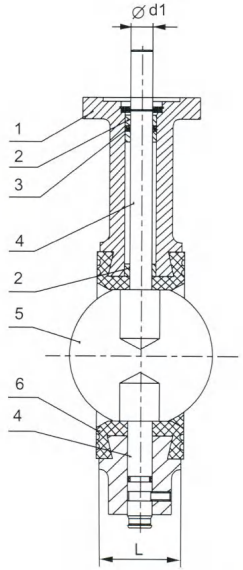
* All available General Design and Face to Face Standard kindly refer to the Basic Specification of Eathu
* All available Flange drilling kindly refer to the attached Flange Drilling Dimensions.

Product Features:

Wafer or lug body style fit between FF or RF flanges
PTFE bushing ensure the maximum shaft support and centralized alignment.
360°polished disc assures positive on-off
Edge-Boot Seat
Two pieces rectangular shaft enhances drop tight sealing and prolongs service life .
Universal ISO 5211 mounting Pad.

Fig.B30L

Fig.B30W



Material List

Parts	Description	Material	Specification	
1	Body	Cast Iron	A126 Class B	*
2	Bushing	PTFE		*
3	O ring	EPDM		*
4	Shaft	Stainless Steel	AISI 316	*
5	Disc	Stainless Steel	A351 CF8M	*
6	Seat	EPDM		*

* Other material request kindly refer to Bill of Main Materials of Eathu

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B40 SERIES BUTTERFLY VALVE

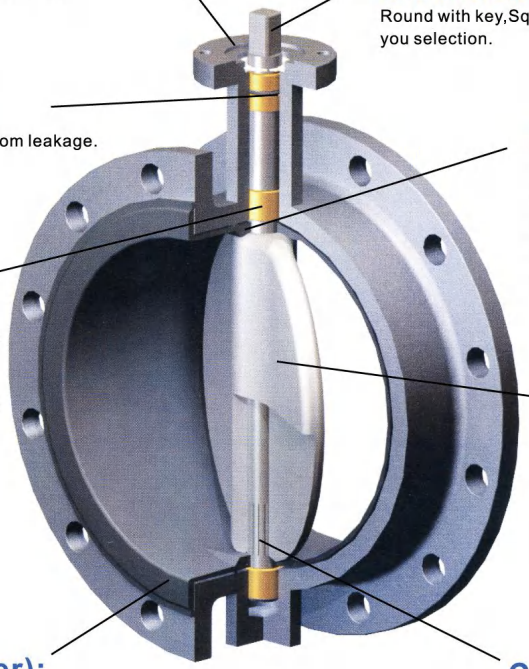
B40 Series Butterfly Valve with Overall Vulcanization liner,pin or splined connection between disc and stem,center line double flanged style.

Top Flange:
Top flange as per ISO5211 standard can suit for all kinds of actuators such as handles,gear box,electric actuator and pneumatic actuators.

Stem Configuration:
Round with key,Square and double"D"for you selection.

O ring:
Prevent stem from leakage.

Shaft Seal:
Bonding of elastomer to phenolic backing ring protects against distortion,a common cause of shaft leakage.



Bushing:
Stem bushing reduces valve torque,isolate the stem from the valve body,prevent the stem from corrosion.PTFE or Bronze material stem bushing for you selection.

Disc:
Precision profile disc provides bubble-tight shut-off and assures minimum torque value and long seal life.

Seat(Liner):
The seat adopt Overall vulcanization structure,it's provided with the ability of resisting tearing apartment and deformation.

Connection Between disc and shaft:
The pin and spline connection are all available.

Technical Data

Size	DN50-DN1200
General Design	EN I092
Mounting Pad	ISO 5211
Face to Face	BS5155;EN558 13series etc.
Flange Drilling	DIN 2501 PN10/PN16*
Inspection and Test	API598

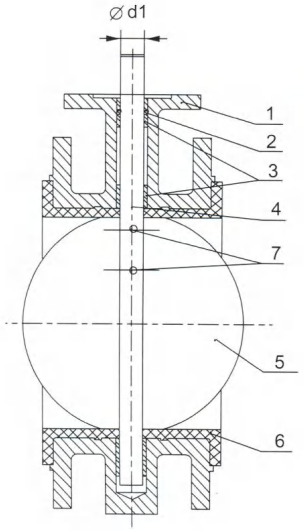
* All available Flange drilling kindly refer to the attached Flange Drilling Dimensions.

Fig.B70F

Product Features

Double flanged style fit between FF or RF flanges
High strength body and large safety factor ensure the body can resist high pipe pressure.
Overall Vulcanization liner with good performance of resisting tearing apartment and deformation.
Pin connection one piece shaft with the features of counter bending and simple reliable structure.
Universal ISO 5211 mounting Pad.

Fig.B70F



Material List

Parts	Description	Material	Specification	
1	Body	Cast Iron	A126 Class B	*
2	O ring	PTFE		*
3	Bushing	EPDM		*
4	Shaft	Stainless Steel	AISI 316	*
5	Disc	Stainless Steel	A351 CF8M	*
6	Seat	EPDM		*
7	Pin	Stainless Steel	A351 CF8M	*

* Other material request kindly refer to Bill of Main Materials of Eathu

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B80 SERIES BUTTERFLY VALVE WITH RUBBER COATED BODY/DISC

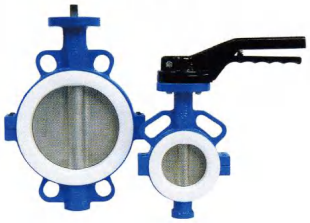
Technical Data

Size	DN40-DN600
General Design	API609*
Mounting Pad	ISO 5211
Face to Face	API609;EN558 1-20series etc.*
Flange Drilling	DIN 2501 PN10*
Inspection and Test	API598

* All available General Design and Face to Face Standard kindly refer to the Basic Sepcification of Eathu
* All available Flange drilling kindly refer to the attached Flange Drilling Dimensions.

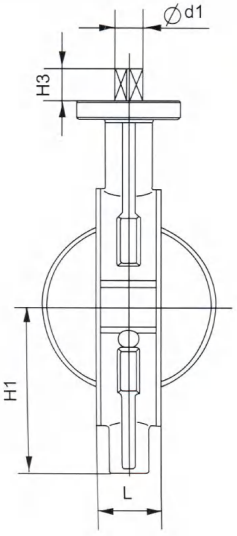
Fig.B80W

Fig.B80W



Product Features

Wafer or lug body style fit between FF or RF flanges
PTFE bushing ensure the maximum shaft support and centralized alignment.
EPDM with PTEF covered or Full PTFE seat for selection.
Nylon or PTFE coated Disc prevent chemical corrosion from flow media.
Two-piece body design ensures assembly and maintenance easily.
Universal ISO 5211 mounting Pad.



Material List

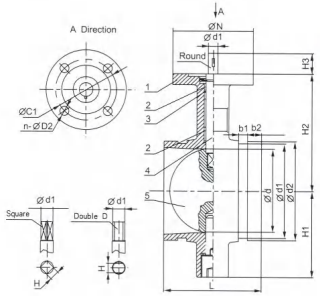
Parts	Description	Material	Specification	
1	Body	Cast Iron (+PTFE)	A126 Class B (+PTFE)	*
2	Bushing	PTFE		*
3	O ring	EPDM		*
4	Shaft	Stainless Steel	AISI 316	*
5	Disc	Stainless Steel (+PTFE)	A351 CF8M (+PTFE)	*
6	Seat	PTFE		*

* Other material request kindly refer to Bill of Main Materials of Eathu

B90 SERIES BUTTERFLY VALVE WITH SOCKETED ENDS

Technical Data

Size	DN40-DN300
General Design	API609 MSS SP-67
Mounting Pad	ISO 5211
Face to Face	ANSI B16.10
End Connection	AWWA C606
Inspection and Test	API598



Material List

Parts	Description	Material	Specification	
1	Body	Ductile Iron	ASTM A536	*
2	Bushing	PTFE		*
3	O ring	EPDM		*
4	Shaft	Stainless Steel	A276 SS410	*
5	Disc	Stainless Steel	A536+EPDM	*

* Other material request kindly refer to Bill of Main Materials of Eathu

Dimensions

Size		L	H1	H2	H3	b1	b2	∅d	∅d1	∅d2	∅N	∅C1	n-∅D2	Round	Square/Double D	
DN	NPS													∅d1	∅d1	H
50	2"	86	70	101.6	30	8.4	15.8	48.5	57.15	60.3	65	50	4-10	12.6	12.1	9
65	2-1/2"	97	75	106.2	30	8.4	15.8	61.2	72.26	76.1	65	50	4-10	12.6	12.1	9
80	3"	97	82	112.5	30	8.4	15.8	74.5	84.94	88.9	65	50	4-10	12.6	12.1	9
100	4"	116	100	135.4	30	10.5	15.8	96.8	110.08	114.3	90	70	4-10	15.77	12.1	11
125	5"	133	100	147.8	30	10.5	15.8	124.4	135.46	139.7	90	70	4-10	18.92	14.1	14
150	6"	134	115	178.1	30	10.7	15.8	149	163.96	168.3	90	70	4-10	18.92	18.1	14
200	8"	148	150	204	40	11.2	18.8	200	214.4	219.1	125	102	4-11	22.1	18.1	17
250	10"	159	233	250	40	13.2	18.8	250	267.7	273.3	125	102	4-11	28.45	22.1	22
300	12"	163	258	275	40	13.2	18.8	299.5	317.8	324.1	125	102	4-11	31.6	28.2	22

* Special Stem head dimensions kindly contact with us directly.

ACTUATOR

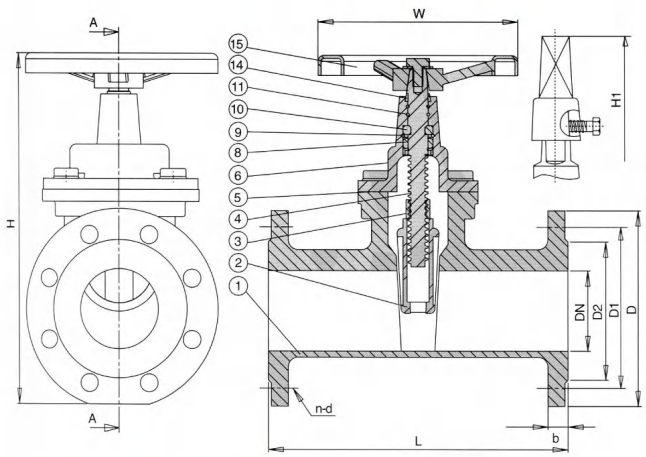
Handle

Electric Actuator

Pneumatic Actuator

Worm Gear

DIN3352 F5 FLANGED END RESILIENT SEAT NON-RISING STEM GATE VALVE



Features:

- Inside Screw
- Bolt bonnet
- Non-Rising Stem
- Rubber Encapsulated Wedge
- Low-torque Operation
- Flanged Ends

Freezing Weather Precaution

Subsequent to testing a piping system,valves should be left in opened position for completing drainage.

Dimensions

Size	L	D	D1	D2	b	n-d	H	H1	W	W.T(kg)
DN50	250	165	125	102	18	4–18	295	350	140	11
DN65	270	185	145	122	18	4–18	328	368	140	14
DN80	280	200	160	138	18	8–18	350	400	200	19
DN100	300	220	180	158	19	8–18	400	440	200	23
DN125	325	250	210	188	19	8–18	428	488	240	30
DN150	350	285	240	212	19	8–22	485	545	240	40
DN200	400	340	295	268	22	12–22	560	630	295	62
DN250	450	405	355	320	22	12–26	635	735	360	105
DN300	500	460	410	378	26	12–26	700	830	360	160
DN350	550	520	470	438	28	16–26	970	955	460	320
DN400	600	580	525	490	30	16–30	1020	1070	460	420
DN450	650	640	585	548	30	20–30	1120	1200	560	590
DN500	700	715	650	610	32	20–33	1220	1300	650	730
DN600	800	840	770	725	36	20–36	1370	1470	650	890

BASIC DESIGN STANDARDS	
Basic Design	DIN3352
Face to face	DIN3202-F5
Flanges	DIN2533 PN16
Testing	DIN 3230

PRESSURE TEST TO DIN 3230			
DN	Pressure Rating (PN)	Hydro-Test Pressure(Mpa)	
		Body	Seat
40-600	10	1.5	1.1
40-600	16	2.4	1.76

Specifical Characteristic according to Customer's request

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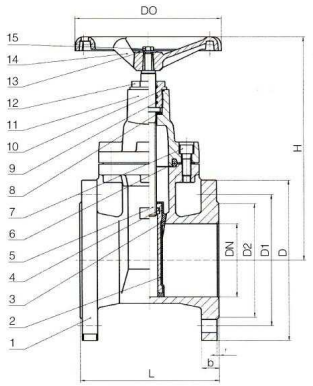
DIN3352 F4 FLANGED END RESILIENT SEAT NON-RISING STEM GATE VALVE



Scope Of Application

Norminal Pressure		1.6MPa
Suitable Medium		water
Test pressure	shell	2.4MPa
	seat	1.76MPa
Test time	DN50-150	60S
	DN>150	120S
Temperature		≤80° C

Dimensions

DN	L	D	D1	D2	b	f	n-d	Do
40	140	150	110	84	18	3	4-19	130
50	150	165	125	102	19	3	4-19	130
65	170	185	145	122	19	3	4-19	130
80	180	200	160	132	19	3	8-19	150
100	190	220	180	156	19	3	8-19	185
125	200	250	210	184	19	3	8-19	185
150	210	285	240	211	19	3	8-23	195
200	230	340	295	266	20	3	12-23	225
250	250	405	355	319	22	3	12-28	245
300	270	460	410	370	24.5	4	12-28	285
350	290	520	470	429	26.5	4	16-28	
400	310	580	525	480	28	4	16-31	
450	330	640	585	548	30	4	20-31	
500	350	715	650	609	31.5	4	20-34	
600	390	840	770	720	36	5	20-37	

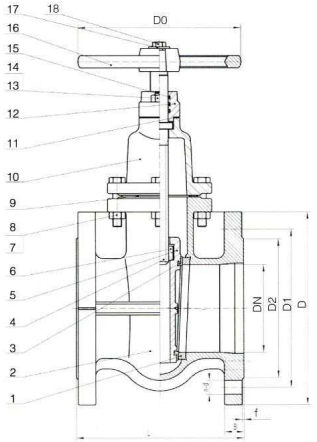
Description

1. Design,manufacture conforms to DIN 3352.
2. Face to face dimension conforms to series 14 of BS EN558-1
3. Flange drilled conforms to BS EN1092-2

Material list

NO.	Part	Material	Germany Standard	Chinese Standard
1	body	ductile iron	DIN1693 GGG50	GB1348-88 QT500-7
2	wedge frame	ductile iron	DIN1693 GGG50	GB1348-88 QT500-7
3	wedge	NBR		NBR
4	stem nut	cast brass	DIN17656G-CuZn37Pb	GB1176-87 ZCuZn40Pb2
5	stem	stainless steel	DIN17440 X20Cr13	GB1220-92 2Cr13
6	flange gasket	NBR		NBR
7	screw	steel	DIN C30	GB699-88 30
8	gasket	teflon		HG/T2902
9	O-ring	NBR		NBR
10	O-ring	NBR		NBR
11	bonnet	ductile iron	DIN1693 GGG50	GB1348-88 QT500-7
12	stuffing box	cast brass	DIN17656 G-CuZn37Pb	GB1176-87 ZCuZn40Pb2
13	washer	steel	DIN17100 RSt37-2	GB700-88 Q235
14	handwheel	ductile iron	DIN1693 GGG50	GB1348-88 QT500-7
15	bolt	steel	DIN17100 Rst37-2	GB700-88 Q235

DIN3352 F4 FLANGED END METAL-SEAL NON-RISING STEM GATE VALVE(O-RING)



Scope Of Application

Norminal Pressure		1.6MPa
Suitable Medium		water,oil,steam
Test pressure	shell	2.4MPa
	seat	1.76MPa
Test Time		60S
Working Pressure	120°C	1.6MPa

Dimensions

DN	L	D	D1	D2	B	f	n-d	Do
40	140	150	110	80	16	2	4-19	130
50	150	165	125	102	16	2	4-19	130
65	170	185	145	124	16	2	4-19	130
80	180	200	160	140	17	2	8-19	150
100	190	220	180	158	17	2	8-19	185
125	200	250	210	188	18	3	8-19	185
150	210	285	240	212	20	3	8-23	195
200	230	340	295	268	21	3	12-23	225
250	250	405	355	320	23	3	12-28	245
300	270	460	410	378	24	4	12-28	285

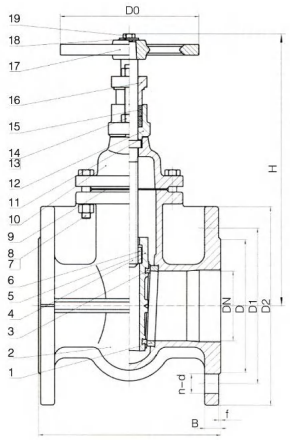
Description

1.Design,manufacture conforms to DIN 3352.
2.Face to face dimension conforms to series 14 of BS EN558-1.
3.Flange drilled conforms to BS EN1092-2.

Material list

NO.	Part	Material	Germany Standard	Chinese standard
1	body seat ring	cast brass	DIN17656 G-CuZn37Pb	GB1176-87 ZCuZn40Pb2
2	body	ductile iron	DIN1693 GGG50	GB1348-88 QT500-7
3	wedge seat ring	cast brass	DIN17656 G-CuZn37Pb	GB1176-87 ZCuZn40Pb2
4	stem	stainless steel	DIN17440 X20Cr13	GB1220-92 2Cr13
5	wedge	ductile iron	DIN1693 GGG50	GB1348-88 QT500-7
6	stem nut	cast brass		GB1176-87 ZCuZn38Mn2Pb2
7	bolt	steel	DIN17100 RSt37-2	GB700-88 Q235
8	nut	steel	DIN17100 RSt37-2	GB700-88 Q235
9	gasket	graphite		GB3518-83 LC35-999
10	bonnet	ductile iron	DIN1693 GGG50	GB9439-88 QT500-7
11	stuffing box gasket	rubber graphite		
12	suffing box	ductile iron	DIN1693 GGG50	GB1348-88 QT500-7
13	bolt	steel	DIN17100 RSt37-2	GB700-88 Q235
14	nut	steel	DIN17100 RSt37-2	GB700-88 Q235
15	O-ring	NBR		
16	handwheel	cast iron	DIN1691 GG25	GB9439-88 HT250
17	washer	steel	DIN17100 RSt37-2	GB700-88 Q235
18	bolt	steel	DIN17100 RSt37-2	GB700-88 Q235

DIN3352 F4 FLANGED END METAL-SEAL NON-RISING STEM GATE VALVE



Scope Of Application

Norminal Pressure		1.6MPa
Suitable Medium		water,oil,steam
Test pressure	shell	2.4MPa
	seat	1.76MPa
Test Time	60S	
Working Pressure	120°C	1.6MPa

Dimensions

DN	L	D	D1	D2	B	f	n-d	Do	H
40	140	150	110	80	16	2	4–19	130	245
50	150	165	125	102	16	2	4–19	130	255
65	170	185	145	124	16	2	4–19	130	277
80	180	200	160	140	17	2	8–19	150	303
100	190	220	180	158	17	2	8–19	185	340
125	200	250	210	188	18	3	8–19	185	387
150	210	285	240	212	20	3	8–23	195	454
200	230	340	295	268	21	3	12–23	225	538
250	250	405	355	320	23	3	12–28	245	629
300	270	460	410	378	24	4	12–28	285	730

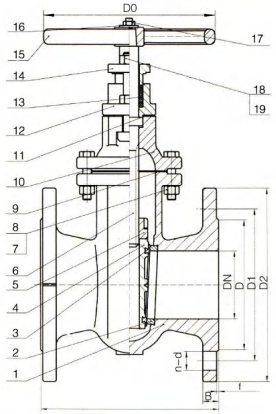
Description

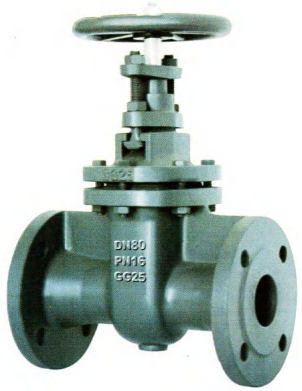
1. Design, manufacture conforms to DIN3352
2. Face to face dimension conforms to series 14 of BS EN558-1
3. Flange drilled conforms to BS EN1092-2

Material list

NO.	Part	Material	Germany Standard	Chinese standard
1	body seat ring	cast brass	DIN17656 G-CuZn37Pb	GB1176-87 ZCuZn40Pb2
2	body	ductile iron	DIN1693 GGG50	GB1348-88 QT500-7
3	wedge seat ring	cast brass	DIN17656 G-CuZn37Pb	GB1176-87 ZCuZn40Pb2
4	stem	stainless steel	DIN17440 X20Cr13	GB1220-92 2Cr13
5	wedge	ductile iron	DIN1693 GGG50	GB1348-88 QT500-7
6	stem nut	cast brass		GB1176-87 ZCuZn38Mn2Pb2
7	bolt	steel	DIN17100 RSt37-2	GB700-88 Q235
8	nut	steel	DIN17100 RSt37-2	GB700-88 Q235
9	flange gasket	graphite		GB3518-83 LC35-999
10	bonnet	ductile iron	DIN1693 GGG50	GB9439-88 QT500-7
11	stuffing box gasket	rubber graphite		
12	suffing box	ductile iron	DIN1693 GGG50	GB1348-88 QT500-7
13	double screw bolt	steel	DIN17100 RSt37-2	GB700-88 Q235
14	nut	steel	DIN17100 RSt37-2	GB700-88 Q235
15	packing	graphite		GB3518-83 LC35-999
16	gland follower	ductile iron	DIN1693 GGG50	GB1348-888 QT500-7
17	handwheel	cast iron	DIN1691 GG25	GB9439-88 HT250
18	washer	steel	DIN17100 RSt37-2	GB700-88 Q235
19	bolt	steel	DIN17100 RSt37-2	GB700-88 Q235

DIN3352 F5 FLANGED END
METAL-SEAL NON-RISING STEM GATE VALVE





Scope Of Application

Norminal Pressure		1.6MPa
Suitable Medium		water,oil,steam
Test pressure	shell	2.4MPa
	seat	1.76MPa
Suitable temperature		-10-150° C

Dimensions

DN	L	D	D1	D2	Do	B	f	n-d
40	240	150	110	88	160	18	3	4-19
50	250	165	125	102	160	20	3	4-19
65	270	185	145	122	160	20	3	4-19
80	280	200	160	138	160	22	3	8-19
100	300	220	180	158	200	24	3	8-19
125	325	250	210	188	250	26	3	8-19
150	350	285	240	212	250	26	3	8-23
200	400	340	295	268	250	30	3	12-23
250	450	405	355	320	320	32	3	12-28
300	500	460	410	378	320	32	4	12-28
350	550	520	470	438	400	36	4	16-28
400	600	580	525	490	400	38	4	16-31

Description

1.Design,manufacture conforms to DIN3352.

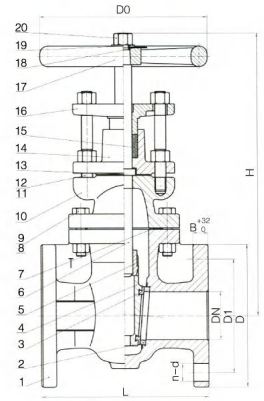
2.Face to face dimension conforms to series 15 of BS EN558-1

3.Flange drilled conforms to BS EN1092-2

Material list

NO.	Part	Material	Germany Standard	Chinese standard
1	body	cast iron	DIN1691 GG25	GB9439-88 HT250
2	body seat ring	cast brass	DIN17656 G-CuZn37Pb	GB1176-87 ZCuZn40Pb2
3	wedge seat ring	cast brass	DIN17656 G-CuZn37Pb	GB1176-87 ZCuZn40Pb2
4	wedge	cast iron	DIN1691 GG25	GB9439-88 HT250
5	stem nut	cast brass		GB1176-87 ZCuZn38Mn2Pb2
6	stem	stainless steel	DIN17440 X20Cr13	GB1220-92 2Cr13
7	bolt	steel	DIN17100 RSt37-2	GB700-88 Q235
8	nut	steel	DIN17100 RSt37-2	GB700-88 Q235
9	gasket	graphite		GB3518-83 LC35-999
10	bonnet	cast iron	DIN1691 GG25	GB9439-88 HT250
11	T-bolt	steel	DIN17100 RSt37-2	GB700-88 Q235
12	gasket	graphite		GB3518-83 LC35-999
13	suffing box	cast iron	DIN1691 GG25	GB9439-88 HT250
14	packing	graphite		GB3518-83 LC35-999
15	gland follower	cast iron	DIN1691 GG25	GB9439-88 HT250
16	nut	steel	DIN17100 RSt37-2	GB700-88 Q235
17	handwheel	cast iron	BS1452 Gr.180	GB9439-88 HT200
18	washer	steel	BS970 43A	GB700-88 Q235
19	nut	steel	BS970 43A	GB700-88 Q235

ANSI CLASS 125 FLANGED END NON-RISING STEM GATE VALVE



Scope Of Application

Class		125lb	
Suitable Medium		water,oil,steam	
Test pressure	size	2″-12″	14″-24″
	shell	2.41MPa	1.83MPa
	seat	1.38MPa	1.03MPa
Test time	size	seat	shell
	2″-8″	30S	60S
	10″-18″	60S	60S
	≥20″	120S	180S
Working Pressure	size	2″-12″	14″-24″
	-29°C-65°C	1.38MPa	1.03MPa
	temperature	232°C 0.86MP	175°C 0.7MPa

Dimensions

DN	L	D	D1	B	n-d	Do	H
2	177.8	152	121	15.9	4-19	178	302
21/2	190	178	140	17.5	4-19	178	332
3	203.2	190	152.5	19	4-19	200	335
4	228.6	228.6	190.5	23.8	8-19	254	423
5	254	254	215.9	23.8	8-22.2	300	485
6	266.7	279.4	241.3	25.4	8-22.2	300	545
8	292.1	343	298.5	28.6	8-22.2	348	644
10	330.2	406	362	30.2	12-25.4	400	769
12	355.6	483	432	31.8	12-25.4	457	860
14	381	533.4	476.3	34.9	12-28.6	560	987
16	406.4	597	539.8	36.5	16-28.6	560	1044
18	432	635	578	39.7	16-32	610	1148
20	457	699	635	42.9	20-32	610	1257
24	508	813	749.5	47.6	20-35	765	1418

Description

1.Design, manufacture conforms to MSS SP-70.

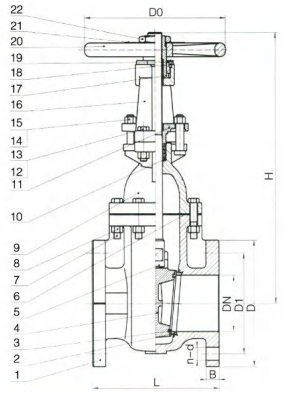
2.Face to face dimension conforms to ANSI B16.10.

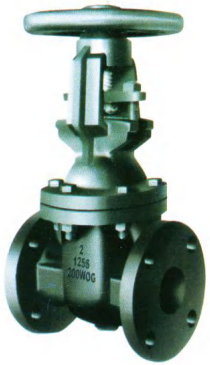
3.Flange drilled conforms to ANSI B16.1.

Material list

NO.	Part	Material	Amercina Standard	Chinese standard
1	body	cast iron	ASTM A 126-B	GB9439-88 HT200
2	seat ring	cast bronze	ASTM B 62	GB1176-87 ZCuSn5PbZn5
3	seat ring	cast bronze	ASTM B 62	GB1176-87 ZCuSn5PbZn5
4	wedge	cast iron	ASTM A 126 B	GB9439-88 HT200
5	wedge nut	cast brass	Mn-Brass	GB1176-87 ZCuZn38Mn2Pb2
6	stem	brass	ASTM B 16	YB146-71 HPb59-1
7	gasket	graphite	Non-Asbestos	GB3518-83 LC35-999
8	bolt	steel	ASTM A 307 B	GB700-88 Q235
9	nut	steel	ASTM A 563 B	GB700-88 Q235
10	bonnet	cast iron	ASTM A 126-B	GB9439-88 HT200
11	bolt	steel	ASTM A 307 B	GB700-88 Q235
12	nut	steel	ASTM A 563 B	GB700-88 Q235
13	gasket	graphite	Non-Asbestos	GB3518-83 LC35-999
14	suffing box	cast iron	ASTM A 126-B	GB9439-88 HT200
15	packing	graphite	Non-Asbestos	GB3518-83 LC35-999
16	gland follower	ductile iron	ASTM A 536 65-45-12	GB1348-88 QT450-10
17	handlewheel	cast iron	ASTM A 126-B	GB9439-88 HT200
18	indentifiation plate	Aluminum		YB604-66 LY12
19	washer	steel	steel	GB700-88 Q235
20	nut	steel	ASTM A 563 B	GB700-88 Q235

ANSI CLASS 125 FLANGED END RISING STEM GATE VALVE





Scope Of Application

Class		125lb	
Suitbale Medium		water,oil,steam	
Test pressure	size	2″-12″	14″-24″
	shell	2.41MPa	1.83MPa
	seat	1.38MPa	1.03MPa
Test time	size	seat	shell
	2″-8″	30S	30S
	10″-18″	60S	60S
	≥20″	120S	180S
Working Pressure	size	2″-12″	14″-24″
	-29°C-65°C	1.38MPa	1.03MPa
	temperature	232°C 0.86MP	175°C 0.7MPa

Dimensions

DN	L	D	D1	B	n-d	Do	H
2	177.8	152	121	15.9	4-19	178	311
21/2	190	178	140	17.5	4-19	178	347
3	203.2	190	152.5	19	4-19	200	384
4	228.6	228.6	190.5	23.8	8-19	254	490
5	254	254	215.9	23.8	8-22.2	300	541
6	266.7	279.4	241.3	25.4	8-22.2	300	656
8	292.1	343	298.5	28.6	8-22.2	348	778
10	330.2	406	362	30.2	12-25.4	400	933
12	355.6	483	432	31.8	12-25.4	457	1102
14	381	533.4	476.3	34.9	12-28.6	560	1259
16	406.4	597	539.8	36.5	16-28.6	560	1395
18	432	635	578	39.7	16-32	610	1560
20	457	699	635	42.9	20-32	610	1708
24	508	813	749.5	47.6	20-35	765	1990

Description

1.Design, manufacture conforms to MISS SP-70.

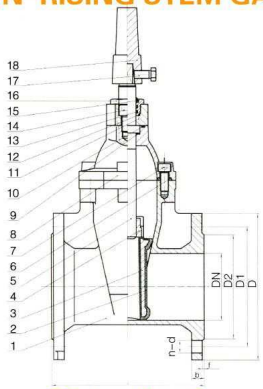
2.Face to face dimension conforms to ANSI B16.10.

3.Flange drilled conforms to ANSI B 16.1.

Material list

NO.	Part	Material	American Standard	Chinese standard
1	body	cast iron	ASTM A 126-B	GB9439-88 HT200
2	body seat ring	cast bronze	ASTM B 62	GB1176-87 ZCuSn5Pb5Zn5
3	wedge seat ring	cast bronze	ASTM B 62	GB1176-87 ZCuSn5Pb5Zn5
4	wedge	cast iron	ASTM A 126 B	GB9439-88 HT200
5	stem	brass	ASTM B 16	YB146-71 HPb59-1
6	gasket	graphite	Non-Asbestos	GB3518-83 LC35-999
7	bolt	steel	ASTM A307B	GB700-88 Q235
8	nut	steel	ASTM A563B	GB700-88 Q235
9	bonnet	cast iron	ASTM A 126 B	GB9439-88 HT200
10	packing	graphite	Non-Asbestos	GB3518-83 LC35-999
11	gland follower	ductile iron	ASTM A 536 65-45-12	GB1348-88 QT450-10
12	bolt	steel	steel	GB700-88 Q235
13	nut	steel	steel	GB700-88 Q235
14	bolt	steel	steel	GB700-88 Q235
15	nut	steel	steel	GB700-88 Q235
16	yoke	cast iron	ASTM A 126-B	GB9439-88 HT200
17	stem nut	cast brass	Mn-Brass	GB1176-87 ZCuZn38Mn2Pb2
18	screw	steel	steel	GB700-88 Q235
19	nut	cast iron	ASTM A 126-B	GB9439-88 HT200
20	handwheel	cast iron	ASTM A 126-B	GB9439-88 HT200
21	identification plate	aluminum	Auminum	YB604-66 LY12
22	handwheel nut	steel	steel	GB700-88 Q235

BS5163 FLANGED END RESILIENT SEATED NON-RISING STEM GATE VALVE



Scope Of Application

Norminal Pressure	1.6MPa
Shell	2.4MPa
Seat	1.76MPa
Suitable medium	water
Temperature	<100°C

Dimensions

DN	L	D	D1	D2	B	f	n-d
50	178	165	125	99	19	3	4-19
65	190	185	145	118	19	3	4-19
80	203	200	160	132	19	3	8-19
100	229	220	180	156	19	3	8-19
125	254	250	210	184	19	3	8-19
150	267	285	240	211	19	3	8-23
200	292	340	295	266	20	3	12-23
250	330	405	355	319	22	3	12-28
300	356	460	410	370	24.5	4	12-28
350	381	520	470	429	26.5	4	16-28
400	406	580	525	480	28	4	16-31
450	432	640	585	548	30	4	20-31
500	457	715	650	609	31.5	4	20-34
600	508	840	770	720	36	5	20-37

Description

1.Design,manufacture conforms to BS5163 Type B.

2.Face to face dimension conforms to series 3 of BS EN558-1.

3.Flange drilled conforms to BS EN1092-2.

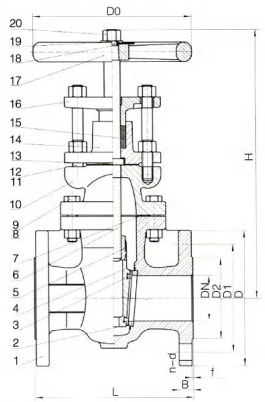
4.Suitable medium:water.

5.temperature:<100°C

Material list

NO.	Part	Material	British Standard	Chinese standard
1	body	ductile iron	BS2798 Gr500-7	GB1348-88 QT500-7
2	wedge	EPDM	BS2494 Type W	
3	wedge frame	ductile iron	BS2789 Gr500-7	GB1348-88 QT500-7
4	stem nut	cast bronze	BS1400 AB1	GB1176-87 ZCuAL10Fe3Mn2
5	stem	stainless steel	BS970 431 S29	GB1220-92 1Cr17Ni2
6	gasket	EPDM	BS2494 Type W	
7	screws	stainless steel	BS970 304S15	GB1220-92 0Cr18Ni9
8	bonnet	ductile iron	BS2789 Gr500-7	GB1348 QT500-7
9	washer	cast bronze	BS1400 LG2	G131179-87 ZCuSn5Pb5Zn5
10	O-ring	EPDM	BS2494 Type W	
11	gland follower	ductile iron	BS2789 Gr500-7	GB1348 QT500-7
12	O-ring	EPDM	BS2494 Type W	
13	O-ring	EPDM	BS2494 Type W	
14	screw	stainless steel	BS970 304S15	GB1220-92 0Cr18Ni9
15	anti-dust ring	EPDM	BS2494 Type W	
16	sleeve gunmetal	cast bronze	BS1400 LG2	GB1176-87 ZCuSn5Pb5Zn5
17	bolt	steel	BS970 43A	GB70088 Q235
18	spindle cap	ductile iron	BS2789 Gr500-7	GB1348 QT500-7

BS5150 FLANGED END NON-RISING STEM GATE VALVE



Scope Of Application

Norminal Pressure		1.6MPa	
Suitable Medium		water,oil,steam	
Test pressure	shell	2.4MPa	
	seat	1.76MPa	
Test time	size	seat	shell
	≤4″	120S	120S
	5″-10″	300S	300S
	≥12″	300S	900S

Dimensions

DN	L	D	D1	D2	B	n-d	f	Do	H
50	177.8	165	125	99	20	4–19	3	178	302
65	190	185	145	118	20	4–19	3	178	332
80	203.2	200	160	132	22	8–19	3	200	335
100	228.6	220	180	156	24	8–19	3	254	423
125	254	250	210	184	26	8–19	3	300	485
150	266.7	285	240	211	26	8–23	3	300	545
200	292.1	340	295	266	30	12–23	3	348	644
250	330.2	405	355	319	32	12–28	3	400	769
300	355.6	460	410	370	32	12–28	4	457	860
350	381	520	470	429	36	16–28	4	560	987
400	406.4	580	525	480	38	16–31	4	560	1044
450	432	640	585	548	40	20–31	4	610	1148
500	457	715	650	609	42	20–34	4	610	1257
600	508	840	770	720	48	20–37	5	765	1418

Description

1.Design,manufacture conforms to BS5150.

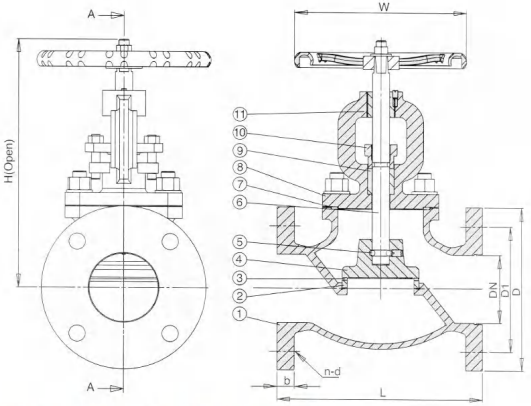
2.Face to face dimension conforms to series 3 of BSEN558–1.

3.Flange drilled conforms to BS EN1092–2.

Material list

NO.	Part	Material	British Standard	Chinese standard
1	body	cast iron	BS1452 Gr.220	GB9439–88 HT200
2	body seat ring	cast bronze	BS1400 LG2	GB1176–87 ZCuSn5PbZn5
3	wedge seat ring	cast bronze	BS1400 LG2	GB1176–87 ZCuSn5PbZn5
4	wedge	cast iron	BS1452 Gr.220	GB9439–88 HT250
5	stem nut	cast brass	BS1400 PCBI	GB1176–87 ZCuZn38Mn2Pb2
6	stem	brass	BS2874 CZ122	YB146–71 HPb59–1
7	gasket	graphite		GB3518–83 LC35–999
8	bolt	steel	BS970 43A	GB700–88 Q235
9	nut	steel	BS970 43A	GB700–88 Q235
10	bonnet	cast iron	BS1452 Gr.220	GB9439–88 HT250
11	bonnet studs	steel	BS970 43A	GB700–88 Q235
12	nut	steel	BS970 43A	GB700–88 Q235
13	stuffing box gasket	graphite		GB3518–83 LC35–999
14	studs	steel	BS970 43A	GB700–88 Q235
15	stuffing box	cast iron	BS1452 Gr.220	GB9439–88 HT250
16	packing	graphite		GB3518–83 LC35–999
17	gland follower	ductile iron	BS2789 Gr420–12	GB1348–88 QT500–7
18	handwheel	cast iron	BS1452 Gr.220	GB9439–88 HT250
19	washer	steel	BS970 43A	GB700–88 Q235
20	nut	steel	BS970 43A	GB700–88 Q235

ANSI CLASS 125 STRAIGHT GLOBE VALVE



Features:

- Outside Screw and Yoke
- Bolted Bonnet
- Rising Stem
- Brass Trim
- Flanged Ends
- Renewable Seat and Disc

Freezing Weather Precaution

Subsequent to testing a piping system,valves should be left in opened position for completing drainage.

Dimensions

Size		L	D	D1	b	n	d	H(open)	W	W.T(kg)
1.5″	in	6.5	5	3.88	0.56	4	0.62	10.63	6.3	10
	mm	165.1	127	98.6	14.2		16	270	160	
2″	in	8.0	6	4.75	0.62	4	0.75	11.42	7.9	12
	mm	203.2	152	120.7	15.8		19	290	200	
2.5″	in	8.5	7	5.50	0.69	4	0.75	12.60	7.9	16
	mm	215.9	178	139.7	17.5		19	320	200	
3″	in	9.5	7.5	6.00	0.75	4	0.75	14.37	7.9	20
	mm	241.3	191	152.4	19		19	365	200	
4″	in	11.5	9	7.50	0.94	8	0.75	16.14	9.4	31.6
	mm	292.1	229	190.5	23.9		19	410	240	
5″	in	13	10	8.50	0.94	8	0.88	18.11	9.4	40.6
	mm	330.2	254	215.9	23.9		22	460	240	
6″	in	14	11	9.50	1.00	8	0.88	20.67	11	50.3
	mm	355.6	279	241.3	25.4		22	525	280	
8″	in	19.5	13.5	11.75	1.12	8	0.88	26.97	14.2	109.4
	mm	495.3	343	298.5	28.5		22	68.5	360	
10″	in	24.5	16	14.25	1.19	12	1.00	32.68	15.7	180
	mm	622.3	406	362	30.2		25	830	400	
12″	in	27.5	19	17.00	1.25	12	1.00	36.42	17.7	230
	mm	698.5	483	431.8	31.8		25	925	450	

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BASIC DESIGN STANDARDS	
Basic Design	MSS SP-85
Face to Face	ANSI B16.10
Flanges	ANSI B16.1
Testing	MSS SP-85

PRESSURE TEST TO MSS SP-85
Working Pressure NonShcok(psi)

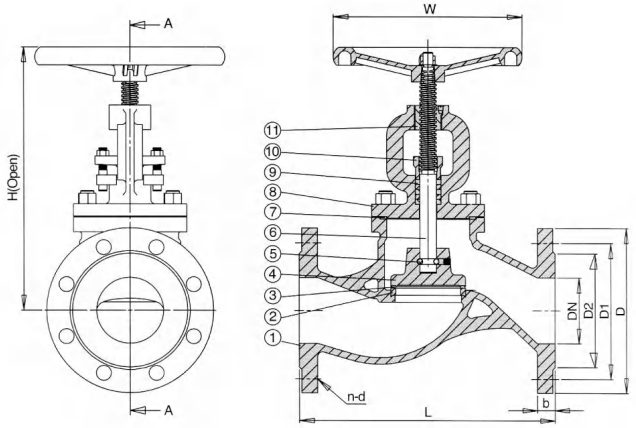
Size	Saturated Steam	Cold Water Oil, Gas
1.5″-12″	125	200

Test Pressure(psi)

Size	Shell (water)	Seal (water)
1.5″-12″	350	200

Specifical Characteristic according to Customer's request

DIN3356 STRAIGHT GLOBE VALVE



Features:

- Outside Screw and Yoke
- Bolted Bonnet
- Rising Stem
- Brass Trim
- Flanged Ends
- Renewable Seat and disc.

Freezing Weather Precaution

Subsequent to testing a piping system,valves should be left in opened position for completing drainage.

Dimensions

Size	L	D	D1	D2	b	n-d	H(open)	W	W.T(kg)
DN15	130	95	65	45	14	4–14	200	80	3.4
DN20	150	105	75	58	16	4–14	220	120	4.7
DN25	160	115	85	68	16	4–14	225	120	5.1
DN32	180	140	100	78	18	4–18	250	120	7.6
DN40	200	150	110	88	18	4–18	270	160	9.5
DN50	230	165	125	102	20	4–18	290	200	13.7
DN65	290	185	145	122	20	4–18	320	200	18.5
DN80	310	200	160	138	22	8–18	365	200	22.1
DN100	350	220	180	158	24	8–18	410	240	34
DN125	400	250	210	188	26	8–18	460	240	47.8
DN150	480	285	240	212	26	8–22	525	280	65.9
DN200	600	340	295	268	30	12–22	685	360	128.8
DN250	730	405	355	320	32	12–26	830	400	196
DN300	850	460	410	378	32	12–26	925	450	245

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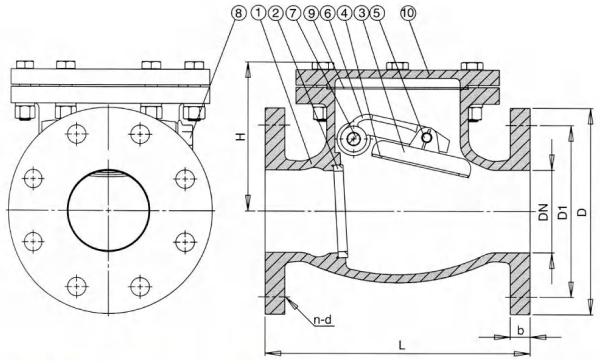
BASIC DESIGN STANDARDS	
Basic Design	DIN3356
Face to face	DIN3202-F1
Flanges	DIN2533 PN16
Testing	DIN 3230

PRESSURE TEST TO DIN 3230			
DN	Pressure Rating (PN)	Hydro-Test Pressure(Mpa)	
		Body	Seat
15-300	10	1.5	1.1
15-300	16	2.4	1.76

Specifical Characteristic according to Customer's request

ANSI CLASS 125 FLANGED END SWING CHECK VALVE



Freezing Weather Precaution

Subsequent to testing a piping system,valves should be left in opened position for completing drainage.

Dimensions

Size		L	D	D1	b	n	d	H	W.T(kg)
1.5	in	6.5	5	3.88	0.56	4	0.62	4.3	10
	mm	165.1	124	98.6	14.2		16	110	
2	in	8.0	6	4.75	0.62	4	0.75	5.1	13
	mm	203.2	152	120.7	15.8		19	130	
2.5	in	8.5	7	5.5	0.69	4	0.75	5.5	18
	mm	215.9	178	139.7	17.5		19	140	
3	in	9.5	7.5	6	0.75	4	0.75	5.9	20
	mm	241.3	191	152.4	19		19	150	
4	in	11.5	9	7.5	0.94	8	0.75	6.3	38.3
	mm	292.1	229	190.5	23.9		19	160	
5	in	13.0	10	8.5	0.94	8	0.88	7.5	55
	mm	330.2	254	215.9	23.9		22	190	
6	in	14.0	11	9.5	1	8	0.88	8.3	65.3
	mm	355.6	279	241.3	25.4		22	210	
8	in	19.5	13.5	11.75	1.12	8	0.88	9.8	97
	mm	495.3	343	298.5	28.5		22	250	
10	in	24.5	16	14.25	1.19	12	1	12.2	180
	mm	622.36	406	362	30.2		25	310	
12	in	27.5	19	17	1.25	12	1	13.4	237
	mm	698.5	483	431.8	31.8		25	340	
14	in	31.0	21	18.75	1.38	12	1.12	15.4	300
	mm	787.4	533	476.3	35		29	390	
16	in	36.0	23.5	21.25	1.44	16	1.12	16.5	420
	mm	914.4	597	539.8	36.6		29	420	

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Features:

- Full Port
- Soild and Resilient Disc
- Bolted Cover
- Replaceable Seat and Disc

BASIC DESIGN STANDARDS	
Basic Design	MSS SP-71
Face to Face	ANSI B16.10
Flanges	ANSI B16.1
Testing	MSS SP-71

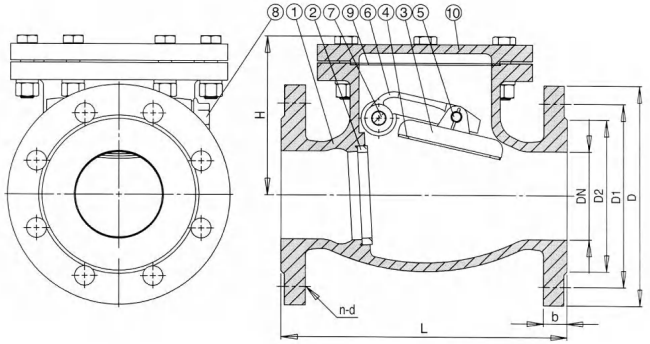
PRESSURE TEST TO MSS SP-70
Working Pressure NonShcok(psi)

Size	Saturated Steam	Cold Water, Oil, Gas
1.5"-12"	125	200
14"-16"	100	150

Test Pressure(psi)

Size	Shell (water)	Seal (water)
1.5"-12"	350	220
14"-16"	265	165

DIN3202 F6 SWING CHECK VALVE



Freezing Weather Precaution

Subsequent to testing a piping system,valves should be left in opened position for completing drainage.

Dimensions

Size	L	D	D1	D2	b	n-d	H	W.T(kg)
DN40	200	150	110	88	18	4–18	110	8.7
DN50	230	165	125	102	20	4–18	130	13.4
DN65	290	185	145	122	20	4–18	140	17.7
DN80	310	200	160	138	22	8–18	150	20.8
DN100	350	220	180	158	24	8–18	160	29.3
DN125	400	250	210	188	26	8–18	190	47
DN150	480	285	240	212	26	8–22	210	67
DN200	600	340	295	268	30	8–22	250	118.7
DN250	730	405	355	320	32	12–22	310	171.9
DN300	850	460	410	378	32	12–22	340	232.5
DN350	980	520	470	438	36	16–22	390	300
DN400	1100	580	525	490	38	16–26	420	460
DN450	1200	640	585	548	40	20–26	470	580
DN500	1250	715	650	610	42	20–26	670	700
DN600	1450	840	770	725	48	20–30	750	780

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Features:

- Full port
- Solid and resilient disc
- Bolted cover
- Replacable Seat and Disc

BASIC DESIGN STANDARDS	
Face to face	DIN3202-F6
Flanges	DIN2533 PN16
Testing	DIN 3230

PRESSURE TEST TO DIN 3230			
DN	Pressure Rating (PN)	Hydro-Test Pressure(Mpa)	
		Body	Seat
40-600	10	1.5	1.1
40-400	16	2.4	1.76

Specifical Characteristic according to Customer's request

C10 WAFER DUAL-PLATE CHECK VALVE

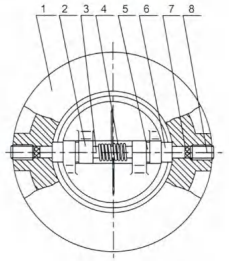
Technical Data

Size	DN40-DN800
Working Pressure	PN10/PN16
Face to Face	DIN 3202-K3
Flange Drilling	ANSI B16.1 Class 125,EN1092-PN10/PN16*
Inspection and Test	API598

* All available Flange drilling kindly refer to the attached Flange Drilling Dimensions.

Product Features

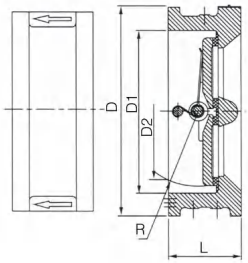
Wafer body style fits between FF or RF flanges.
Upper and lower PTFE thrust washers
Resilient Buna-N or EPDM seat.
Dual Plate Valves give maximum strength with minimum opening time.
Torsion springs assist valve closure,preventing flow reversal.
Thrust washers reduce friction and wear of valve plate hinges.



Material of Construction

Parts	Description	Material	Specification	
1	Body	Cast Iron	A126 B	*
2	Disc	Stainless Steel	A351 CF8M	*
3	Shaft	Stainless Steel	A351 CF8M	*
4	Spring	Stainless Steel	AISI 316	*
5	Washer	PTFE	AISI 316	*
6	Seat	EPDM		*
7	Gasket	PTFE		*
8	Hex Nut	Cast Steel	A194 2H	*

* Other material request kindly refer to Bill of MainMaterials of Eathu.



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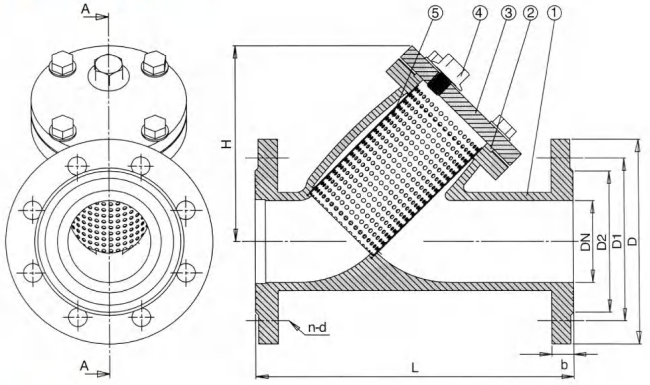
Dimensions

Size		L	D		D1	D2	R
DN	NPS		DIN PN10	DIN PN16			
40	1-1/2"	43	78	78	57	/	25
50	2"	43	107	107	65	40	27
65	2-1/2"	46	127	127	80	60	35
80	3"	64	142	142	94	70	42
100	4"	64	162	162	117	88	50
125	5"	70	192	192	145	115	64
150	6"	76	218	218	171	134	77
200	8"	89	273	273	224	182	102.5
250	10"	114	328	328	265	220	125
300	12"	114	378	378	310	260	146
350	14"	127	438	444	360	298	170
400	16"	140	489	489	410	350	195
450	18"	152	539	555	450	385	215
500	20"	152	594	617	505	438	238
600	24"	178	695	734	624.5	538	292
700	28"	229	810	804	720	662	345
800	32"	241	917	911	825	762	294

* Other available Flange drilling kindly refer to the attached Flange Drilling Dimensions.

DIN Y STRAINER



Features:

- With one machined seat & blow-off,cover & gasket design,Y strainer is easy to renew the screen
- Low pressure drop streamlined design
- May be installed in vertical or horizontal pipeline.

Application

Strainers are suitable for use in a variety of fluid systems such as air,chemical,gas,oil or water lines ect.for the protection of valves,pumps,compressors and other equipment.

Dimensions

Size	L	D	D1	D2	b	n-d	H	W.T(kg)
DN15	130	95	65	45	14	4-14	65	1.7
DN20	150	105	75	58	16	4-14	70	2.3
DN25	160	115	85	68	16	4-14	80	3.2
DN32	180	140	100	78	18	4-18	90	5
DN40	200	150	110	88	18	4-18	135	6.5
DN50	230	165	125	102	20	4-18	150	8.7
DN65	290	185	145	122	20	4-18	160	12
DN80	310	200	160	138	22	8-18	200	19
DN100	350	220	180	158	24	8-18	240	27
DN125	400	250	210	188	26	8-18	290	40
DN150	480	285	240	212	26	8-22	330	58
DN200	600	340	295	268	30	12-22	380	86
DN250	730	405	355	320	32	12-26	480	127
DN300	850	460	410	378	32	12-26	550	200
DN350	980	520	470	438	36	16-26	680	290
DN400	1100	580	525	490	38	16-30	780	385
DN450	1200	640	585	548	40	20-30	830	520
DN500	1250	715	650	610	42	20-33	910	780

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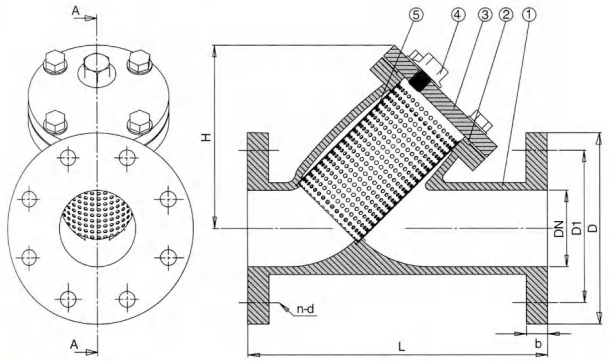
BASIC DESIGN STANDARDS	
Face to face	DIN 3202-F1
Flanges	DIN 2533 PN16
Testing	DIN 3230

PRESSURE TEST			
DN	Pressure Rating (PN)	Hydro-Test Pressure(Mpa)	
		Body	Seat
15-500	10	1.5	1.1
15-400	16	2.4	1.76

Specifical Characteristic according to Customer's request

ANSI Y STRAINER



Applications

Strainers are suitable for use in a variety of fluid systems such as air,chemical,gas,oil or water lines ect.for the protection of valves,pumps,compressors and other equipment.

Dimensions

Size		L	D	D1	b	n	d	H	W.T(kg)
1.5	in	7.9	5	3.88	0.56	4	0.62	5.3	6.5
	mm	200	127	98.6	14.2		16	135	
2	in	8.9	6	4.75	0.62	4	0.75	5.9	9.6
	mm	225.4	152	120.7	15.8		19	150	
2.5	in	10.7	7	5.5	0.69	4	0.75	6.3	12.3
	mm	273.0	178	139.7	17.5		19	160	
3	in	11.5	7.5	6	0.75	4	0.75	7.9	16.9
	mm	292.0	191	152.4	19		19	200	
4	in	13.9	9	7.5	0.94	8	0.75	9.4	28.1
	mm	352.4	229	190.5	23.9		19	240	
5	in	16.4	10	8.5	0.94	8	0.88	11.4	40
	mm	416.0	254	215.9	23.9		22	290	
6	in	18.5	11	9.5	1	8	0.88	13	48.9
	mm	470.0	279	241.3	25.4		22	330	
8	in	21.4	13.5	11.75	1.12	8	0.88	15	82.3
	mm	543.0	343	298.5	28.5		22	380	
10	in	26	16	14.25	1.19	12	1	18.9	127.3
	mm	660.4	406	362	30.2		25	480	
12	in	30	19	17	1.25	12	1	21.7	200
	mm	762.0	483	431.8	31.8		25	550	
14	in	37.3	21	18.75	1.38	12	1.12	26.8	290
	mm	946.3	533	476.3	35		29	680	
16	in	42.5	23.5	21.25	1.44	16	1.12	30.7	385
	mm	1079.0	597	539.8	36.6		29	780	

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Features:

With one machined seat & blow-off, cover&gasket design, Y strainer is easy to renew the screen
Low pressure drop
steamlined design
Maybe installed in vertical or horizontal pipeline.

BASIC DESIGN STANDARDS	
Flanges	ANSI B16.1

PRESSURE TEST
Working Pressure NonShcok(psi)

Size	Saturated Steam	Cold Water, Oil, Gas
1.5"-16"	125	200

Test Pressure(psi)

Size	Shell (water)	Seat (water)
1.5"-16"	350	220

Specifical Characteristic according to Customer's request

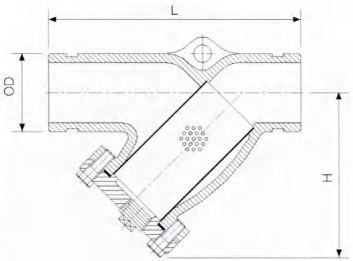
GROOVED END Y-STRAINER PN25/CLASS250

Working pressure and Temperature

Working pressure PN25/Class250.
Temperature from -10℃ to 120℃.

Groove Type

Groove dimensions comply with Metric or AWWA C606 standard.



Standard Screens

Sizc	Hole Dia	Free Flow Area
DN50 to 80	1.5mm	33%
DN100 to 300	3.0mm	40%

Materials Specification

Part Name	Material	EN Spec.	ANSI Spec.
Body	Ductile Iron	EN-JS1050	A536 65-45-12
Cover	Ductile Iron	EN-JS1050	A536 65-45-12
Screen	Stainless steel	BS970 304S15	AISI 304
Gasket	Teflon/Graphite	Commercial	Commercial
Plug	Ductile Iron	EN-JS1050	A536 65-45-12

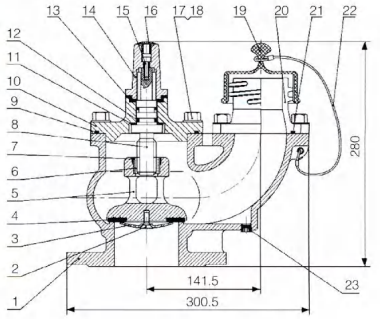
Dimensions

Size	50	65	80	100	125	150	200	250	300
OD	60.3	73.0/76.1	88.9	114.3	139.7/141.3	165.1/168.3	219.1	273.0	323.9
L	225	285	318	375	448	502	640	710	780
H	152	215	219	254	322	365	462	540	610
Plug	1/2"	1"	1"	1-1/2"	2"	2"	2"	2"	2"

FIRE HYDRANTS DN80/PN16

Materials Specification

No.	Part Name	ASTM Spec
1	Body	D.I.ASTM A536 65-45-12
2	Bolt	Stainless Steel 304
3	Holder	Stainless Steel 304
4	Gasket	NBR
5	Disc	D.I.ASTM A536 65-45-12
6	Stem Nut	Bronze ASTM B16 C36000
7	Screw	Steel
8	Stem	SS 420
9	O-Ring	NBR
10	Cover	D.I.ASTM A536 65-45-12
11	Washer	Copper
12	O-Ring	NBR
13	Cap Gasket	Plastic
14	Driver Cap	C.I. ASTM 126 Class B
15	Bolt	Stainless steel
16	Indicator Cap	Plastic
17	Bolt	Stainless steel
18	Washer	Stainless steel
19	Dust Cap	Plastic
20	Outlet	Brass ASTM B16
21	O-Ring	NBR
22	Rope	Stainless Steel
23	Plug	Plastic



Notes:

1.Produced in accordance with standards BS750 Type II
2.The inlet flange is DN80 drilled to PN16 and Table E.
3.The outlet is 2-1/2" London Round Thread.
4.Hydrostatic Test: Body 24 Bar, Seat 16 Bar
5.FBE Coating

Double Sphere Rubber Expansion Joint PN 16

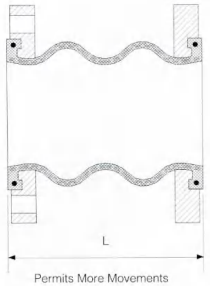
Working pressure and Temperature

Working pressure PN16.
Explosive Pressure 48 bar.
Vacuum Rating 750mmHg
Temperature from -10℃ to 120℃ for EPEM.
Temperature from -10℃ to 82℃ for NBR.
Temperature from -10℃ to 110℃ for Neoprene.

Medium: Air,Water,Oil,Acid,Alkali etc.
Flange Type: EN1092-2 PN10/pn16,other flange types are available.

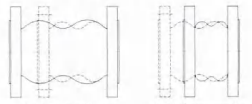
Materials Specification

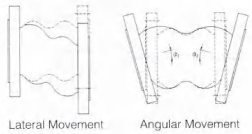
Part Name	Material
Rubber	EPDM/NBR/Neoprene
Carcass	Nylon Cord Fabric
Reinforcing Wire	Spring Steel Wire
Flange	Carbon steel,Zinc Plated



Dimensions

Size	L±5	Axial Compression	Axial Elongation	Lateral Movement	Angular Movement$\alpha_1+\alpha_2$
32	175	20	10	20	30°
40	175	20	10	20	30°
50	175	20	10	20	30°
65	175	20	10	20	30°
80	175	20	10	20	30°
100	225	30	15	25	30°
125	225	30	15	25	30°
150	225	30	15	25	30°
200	325	40	20	30	30°
250	325	40	20	30	30°
300	325	40	20	30	30°
350	350	40	20	30	30°
400	350	40	20	30	30°
450	350	45	25	30	30°
500	350	45	25	30	30°
600	350	45	25	30	30°





Double Sphere Union Type Rubber Expansion Joint PN 16

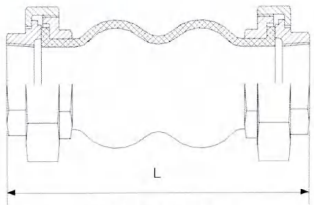
Working pressure and Temperature

Working pressure PN16.
Explosive Pressure 48 bar.
Vacuum Rating 400mmHg
Temperature from -10℃ to 120℃ for EPEM.
Temperature from -10℃ to 82℃ for NBR.
Temperature from -10℃ to 110℃ for Neoprene.

Medium: Air,Water,Oil,Acid,Alkali etc.
End Thread Type: NPT or BSP thread.

Materials Specification

Part Name	Material
Rubber	EPDM/NBR/Neoprene
Carcass	Nylon Cord Fabric
Reinforcing Wire	Spring Steel Wire
Union	Malleable,Zinc Plated



Dimensions

Size	L	Axial Compression	Axial Elongation	Lateral Movement	Angular Movement$\alpha_1+\alpha_2$
20(3/4″)	200	22	5~6	22	45°
25(1″)	200	22	5~6	22	45°
32(1-1/4″)	200	22	5~6	22	45°
40(1-1/2″)	200	22	5~6	22	45°
50(2″)	200	22	5~6	22	45°
65(2-1/2″)	240	22	5~6	22	45°