

HUIHUA VALVE INDUSTRY CO.

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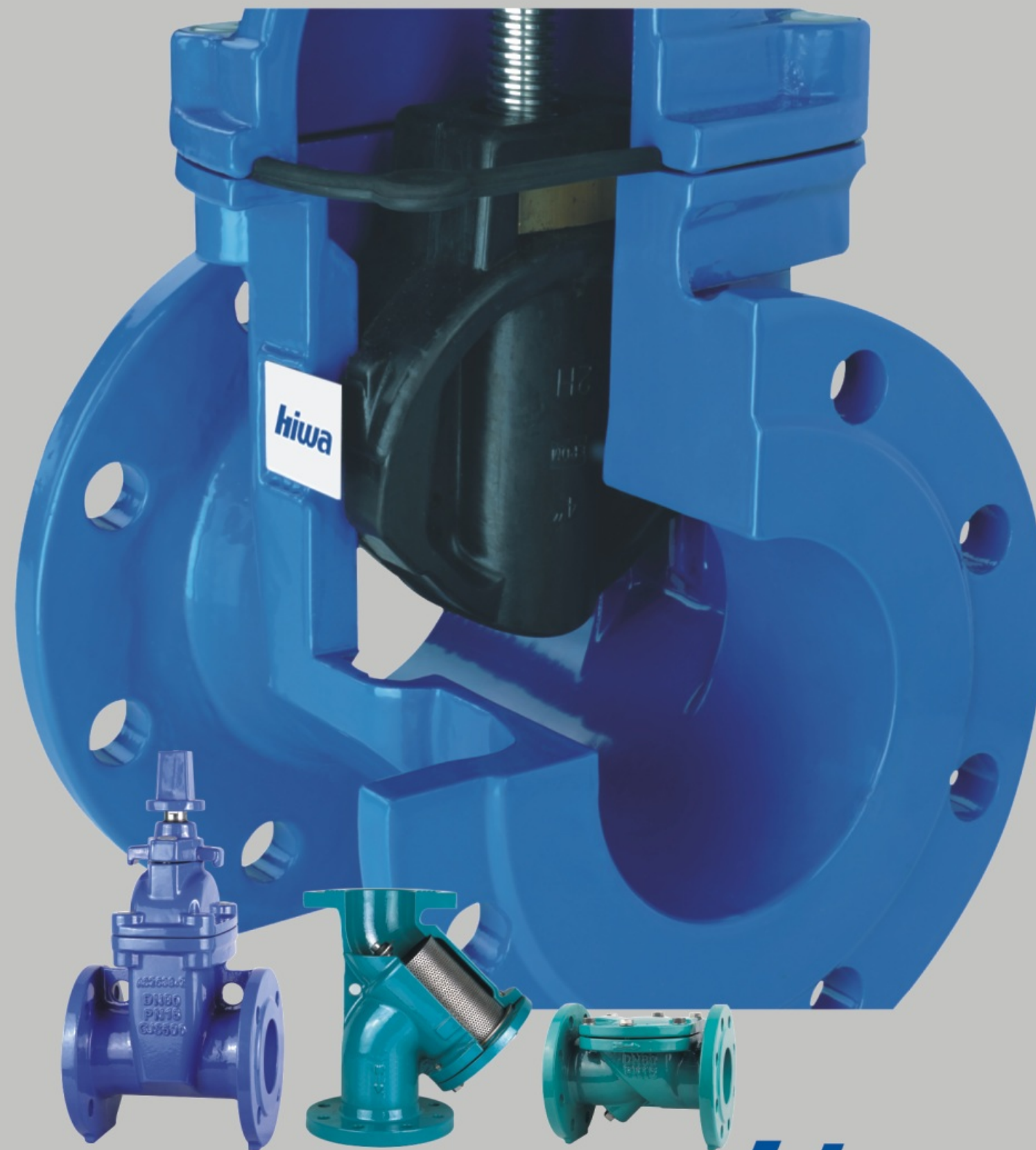
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CAST IRON VALVES

GATE VALVE SERVICE VALVE CHECK VALVE
BALL CHECK VALVE STRAINER



HUIHUA VALVE INDUSTRY CO.



1-General

Shut-off valve ductile iron cover and full access to soft sealing valve ranges, coated elastomer for an opening and closing operation by the different methods

1-1 Functions :

The valves may be :
Based on the water, both in the context of new and renovation work.
Buried or installed underground .
The use of valves allows :
To balance the distribution of water in all respects in mesh networks in closing or opening.
Maintenance of valves, such as closing and opening , post fire control devices, etc. in the insulation system.
Perform maintenance operations on the network isolation, removal of an adjacent section of the pipe.
In case of failure or incident on a line, the closure will limit the risk of flooding.

1-2 Applications

Sewage, Water, Industrial and Food & Beverage Systems

e.g. for:

Sewage Systems

Sewage treatment plants, distribution networks, raw water, digested sewage, air applications

Water Systems

Water treatment plants, distribution networks, potable water applications

Industrial Systems

Chemically contaminated waste water, gases, industrial media, sea water applications

Food & Beverage Systems

Washing and rinsing applications, conveying systems, potable water processing

1-3 Characteristics:

Face to face dimensions of standard 558 - 1 series 14 and 15 , ISO 5752 series 14 and 15, and BS5163, AS 2638. Drilling flange connections according to standard EN 1092-2 PN10/PN16 ,AS 2129 Table E, and so on.

Rubber EPDM or NBR coated wedge ,suitable for potable water with drain hole.

Rubber Bonnet gasket for longevity and protection of bonnet bolts, isolated fasteners for corrosion protection

O rings can be replaceable under full pressure.
Handwheel, square cap, electric actuator operating methods are available
Maximum operating temperature :40°C

1-4 Tests

Quality control of the production :
100% of the valves are tested according to the standards
Test pressure: 1.1x rating (seat), 1.5X rating (body)
Maximum torque control operation
Chemical Analysis
Yield Point, Tensile Strength, Elongation, Hardness
Hydrostatic Test, Air Test

1-5 Performances

Low pressure loss
Low operating torque.
Complete sealing.
2500 cycles endurance

The HIWA Resilient Seated Valve is compliant to diverse standards and provides approved materials for use in contact with drinking water.

Its light type construction of ductile iron offers a durable extended service life.
The valve is used for water industry, water treatment, processing industry and irrigation.

Product Advantages:

BODY AND BONNET

Ductile Iron material for high strength and impact resistance.
Pressure ratings vary from PN10 to PN25.

WEDGE

Fully vulcanized wedge is WRAS & WaterMark approved EPDM rubber compound, internally and externally.

STEM

One-piece forged stem with an integral thrust collar eliminates the seal damage and leakage that often occurs when gate valves utilize a split ring collar to retain.

Cold rolled Stainless Steel provides maximum strength.

Clockwise to close as standard.



Stem Seals

V-ring design and replaceable under pressure.

Wedge Nuts

Brass or Bronze forged material abundant over sizing of the required thread length to guarantee highest possible break torque.

Wedge Guides

To ensure a uniform closure, safe operation ensured as the guides prevent overloading of the stem.

Thrust Washer

To ensure low torque operation and years of trouble free operation.

Coating

Fusion bonded epoxy coating on the interior and exterior of the valve. WRAS & WaterMark approved coating powder.

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Resilient Seated Gate Valve with ISO Top flange



Resilient Seated Gate Valve with extension stem and surface box



Cap

Application:
Not often to open and close valves, specialized valves

Advantages:
Small size, easy to uniform the tools and prevent misoperation by the laypeople



Stamped steel handwheel

Application:
Low torque, civil valves, dry environment

Advantages:
Light weight beautiful design and good price

Ductile Iron handwheel

Application:
High torque, industrial valves, severe environment

Advantages:
Adaptive to the climate change, long service life



Cylinder

Application:
Industrial valves and not suitable for man-operation on site

Advantages:
Reduce the input torque
Avoid potential danger



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DIN VALVE SERIES
RESILIENT SEATED GATE VALVES TO
EN1074-1/AS2638.2/BS5163

The Design Advantage

Wedge Design

Completely encapsulated wedge with high quality WRAS approved Elastomers and integrated wedge guides with valve body to reduce torque and prevent operational wear to ensure a lifetime of reliable service



Wedge Nuts

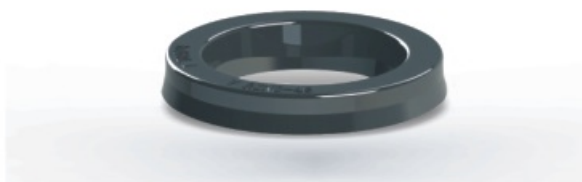
Wedge nuts are cold forged from dezincification resistant copper alloys for maximum strength and consistency compared to cast alternatives



Stem Design

One-piece forged stem with an integral thrust collar eliminates the seal damage and leakage that often occurs with gate valves that utilize a split ring collar to retain thrust.

Cold rolled stainless steel stem provides maximum strength and a polished sealing surface for O-Ring seal. Multiple O-Ring stem nut assemblies on NRS valves allow seal rings to be changed with the valve fully open at full working pressure, with many options available to meet specific requirements.



Valve Body

All Series Gate Valves conform to standard with the perfect Ductile Iron body and gate. The higher strength of Ductile Iron compared to Cast Iron allows all valves up to DN300 to be rated to 25 Bar Pressure, up to DN600 with 16 Bar pressure and 10 Bar pressure for DN600-DN1200.

V Ring

Perfect V-Ring design ensures the two O-ring seals are replaceable with the valve fully open and subjected to full-rated working pressure.

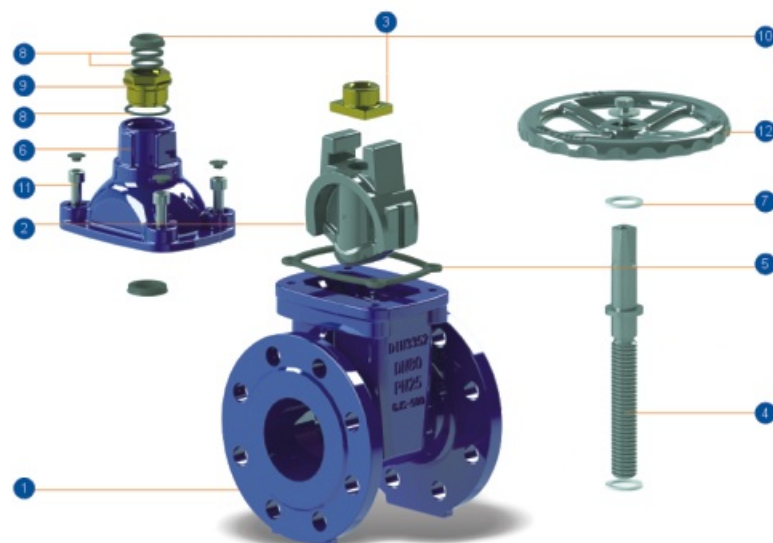


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DIN VALVE SERIES RESILIENT SEATED GATE VALVE

Connection

EN 1092-2 PN16, AS 2129 Table E,



Bolted Bonnet. Resilient Wedge.
Flanged End 10, 16, 25 Bar Working Pressure
Replaceable O Ring . Clockwise or Anti-
Clockwise Closing
Fusion bonded epoxy coated Inside and
outside

End Connection

EN 1092-2 PN10, PN16, PN25
AS2129 Table D/E/F. AS4087 PN16

Features

Valve body, bonnet are both made of high
strength ductile iron.
Full rubber encapsulated wedge ensures
zero leakage with low torque value.
Cold-rolled stainless steel stem provides
as standard to eliminate bent or broken stem.
Suitable Accessories: Square Cap; Hand
wheel; ISO5210 Top Flange; Extension
Spindle; T Key

Material List

Item	Component	Material	Specification
1	Body	Ductile Iron	GGG50 (EN-GJS-500-7)
2	Wedge	Ductile Iron+EPDM	GGG50+EPDM
		Ductile Iron +NBR *	GGG50+NBR*
3	Wedge Nut	Brass	Copper alloy EN12165
		Bronze *	EN1982 CC491K *
4	Stem	Stainless Steel	SS420, SS431*, SS316*, Super duplex F51*
5	Bonnet Gasket	EPDM /NBR*	EPDM/NBR*
6	Bonnet	Ductile Iron	GGG50 (EN-GJS-500-7)
7	Thrust Washer	Brass/Nylon	PTFE/Nylon
8	O Ring	EPDM NBR*	EPDM NBR*
9	Stuffing Nut	Brass	Copper Alloy EN12165
10	Dust Guard	EPDM NBR*	EPDM NBR*
11	Bonnet Bolts	Galvanized Steel, Stainless Steel	8.8 Grade Steel, SS304, SS316
12	Hand Wheel	Ductile Iron	GGG50 (EN-GJS-500-7)

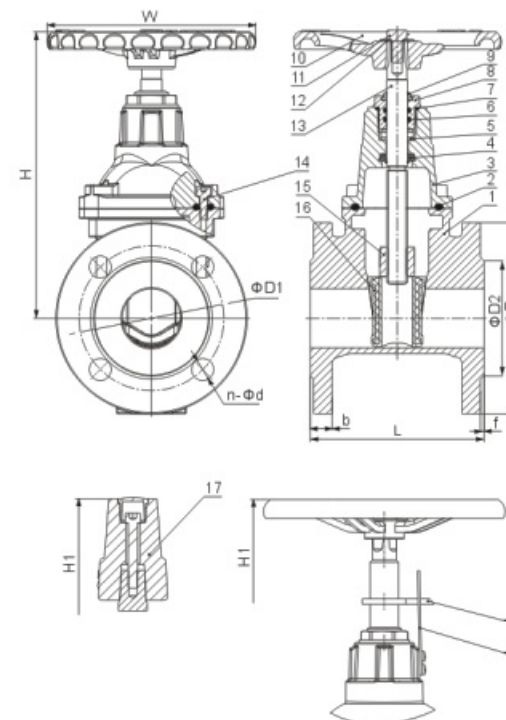
* for selection

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RESILIENT SEATED GATE VALVE EN1074-1,2/EN558-1 14/15 SERIES

Z4714A (F4 Length)

Z4715A (F5 Length)



Features

Replaceable O-ring
Low torque operation
Rubber Encapsulated wedge
Clockwise to close
Fusion bonded epoxy coated inside and outside
PN25 Rating is available.

Technical Specification

- Design According to : DIN3352
- Face to Face Dimension according to DIN3202 F4
- Flange Drilling according to EN1092-2 PN10/16.
- Test According to ISO 5208.

DN	Pressure Rating(MPa)	Pressure Test To ISO5208 Hydro-Test Pressure(MPa)	
		Body	Seat
40-300	1.0	1.5	1.1
	1.6	2.4	1.76

Optional Extras
Stem cap
Position Indicator
Extension Spindle/T key

Material Specifications

Item	Part Name	Material	Item	Part Name	Material
1	Body	GJS500-7	11	Bolt	S.Steel 1.4301
2	Bonnet Gasket	EPDM/NBR	12	Washer	S.Steel 1.4301
3	Bonnet	GJS500-7	13	Stem	S.Steel 1.4301
4	V Ring	EPDM/NBR	14	Bolt	S.Steel 1.4301
5	Washer	Nylon	15	Wedge Nut	Bronze B62/Brass
6	O Ring	EPDM/NBR	16	Wedge	GJS500-7+EPDM
7	O Ring	EPDM/NBR	17	Cap	GJS500-7
8	Stem Nut	Bronze B62/Brass	18	Indicator	Carbon Steel
9	Dust Ring	EPDM/NBR	19	Pointer	Carbon Steel
10	Handwheel	GJS500-7	20		

Dimensions(mm)

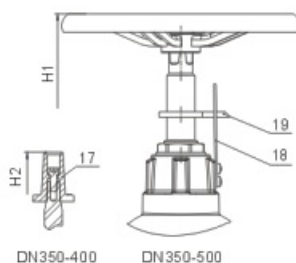
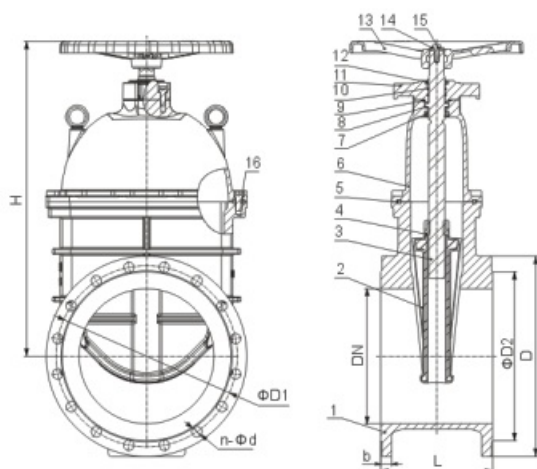
DN	Z4714A(F4) Z4715A(F5)		Φ D (F4)	Φ D (F5)	EN1092-PN10/PN16						f	H (F4)	H (F5)	H1	H2
	L	L			Φ D1 (PN10)	Φ D1 (PN16)	Φ D2	b	n-Φ d (PN10)	n-Φ d (PN16)					
40	140	240	150		110	84	19	4-19	3	254	254	278	283		
50	150	250	165		125	99	19	4-19	3	247	250	278	293		
65	170	270	185		145	118	19	4-19	3	253	260	285	298		
80	180	280	200		160	132	19	8-19	3	313	313	350	343		
100	190	300	220		180	156	19	8-19	3	350	342	394	383		
125	200	325	250		210	184	19	8-19	3	390	451	457	426		
150	210	350	285		240	211	19	8-23	3	440	440	482	462		
200	230	400	340		295	266	20	8-23 12-23	3	565	570	633	570		
250	250	450	400		350	355	319	22 12-23 12-28	3	637	653	727	650		
300	270	500	455		400	410	370	24.5 12-23 12-28	4	727	729	810	740		

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RESILIENT SEATED GATE VALVE

EN1074-1,2/EN558-1 14/15 SERIES

Z4714C
Z4715C



Features

Replaceable O-ring
Low torque operation
Rubber Encapsulated wedge
Clockwise to close
Fusion bonded epoxy coated inside and outside

Technical Specification

- Design According to : DIN3352
- Face to Face Dimension according to EN558-1 14/15 series
- Flange Drilling according to EN1092-2 PN10/16.
- Test According to ISO 5208.

Pressure Test To ISO5208			
DN	Pressure Rating(MPa)	Hydro-Test Pressure(MPa)	
		Body	Seat
350-600	1.0	1.5	1.1
	1.6	2.4	1.76

Optional Extras
Stem cap
Position Indicator
Extension Spindle/T key

Material Specifications

Item	Part Name	Material
1	Body	GJS500-7
2	Wedge	GJS500-7+EPDM
3	Stem	S.Steel 1.4021
4	Stem Nut	Bronze B62/Brass
5	Bonnet Gasket	EPDM
6	Bonnet	GJS500-7
7	V Ring	EPDM
8	Washer	Nylon
9	O Ring	EPDM
10	O Ring	EPDM

Item	Part Name	Material
11	Gland	GJS500-7
12	Dust Ring	EPDM
13	Handwheel	GJS500-7
14	Washer	S.Steel 1.4301
15	Bolt	S.Steel 1.4301
16	Bolt	S.Steel 1.4301
17	Cap	GJS500-7
18	Indicator	Carbon Steel
19	Pointer	Carbon Steel

Dimensions(mm)

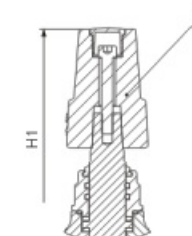
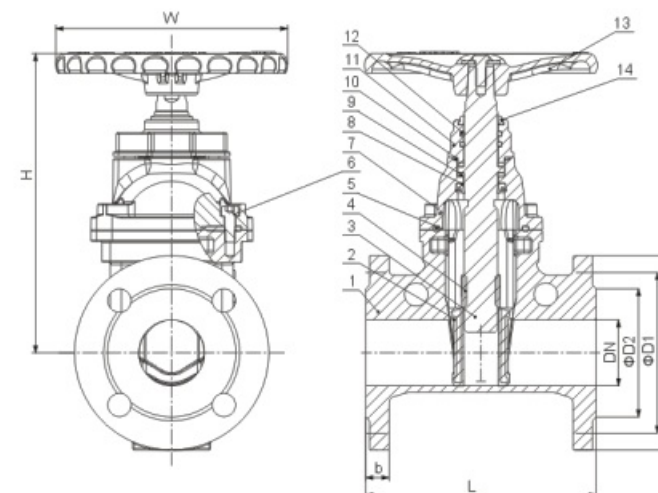
Size	L(F4)	L(F5)	ΦD	EN1092-2 PN10			EN1092-2 PN16			H	H1	H2	W
				ΦD1	ΦD2	n-Φd1	ΦD	ΦD1	ΦD2	n-Φd1	b		
DN350	290	550	520	460	429	16-23	520	470	429	16-28	26.5	842	909
DN400	310	600	580	515	480	16-28	580	525	480	16-31	28	941	1024
DN450	330	650	640	565	530	20-28	640	585	548	20-31	30	1012	1112
DN500	350	700	715	620	582	20-28	715	650	609	20-34	31.5	1103	1201
DN600	390	800	840	725	682	20-31	840	770	720	20-37	36	1279	730

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RESILIENT SEATED GATE VALVE

AS2638.2

Z1711M



Features

Replaceable O-ring
Low torque operation
Rubber Encapsulated wedge
Clockwise to close
Fusion bonded epoxy coated inside and outside

Technical Specification

Design conforms to AS2638.2
Face to face according to AS2638.2
Flanges drilling according to AS4087 PN16
Pressure test according to AS2638.2
Top flange: ISO 5211

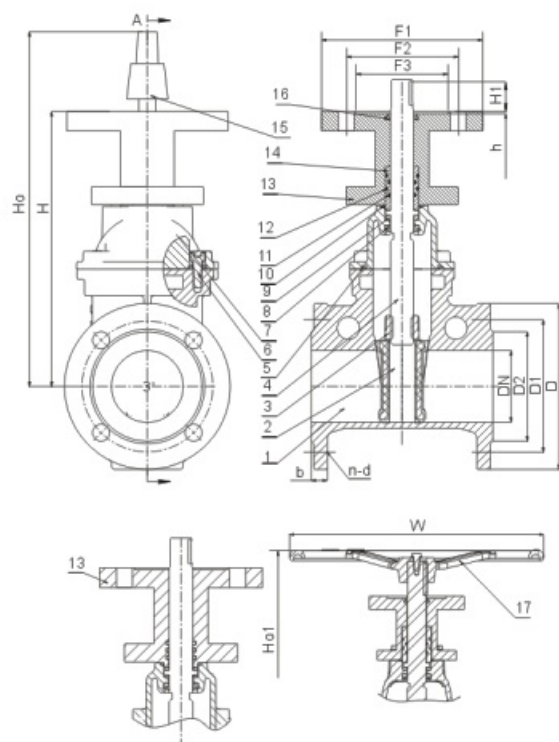
Material Specifications

Item	Part Name	Material
1	Body	AS1831 500-7
2	Wedge	AS1831 500-7+EPDM(AS1646)
3	Stem	SS420 or other materials
4	Stem Nut	Alu. Bronze C95210
5	Bonnet Gasket	EPDM(AS1646)
6	Bolt	SS316
7	Bonnet	AS1831 500-7
8	Up Sealing	NBR(AS1646)

Item	Part Name	Material
11	Washer	Nylon
12	O-Ring	NBR(AS1646)
13	Gland	AS1831 500-7
14	O-Ring	NBR(AS1646)
15	Handwheel	AS1831 500-7
16	Dust Guard	NBR(AS1646)
17	CAP	AS1831 500-7

Dimensions(mm)

DN	L	D	D1	D2	b	n-d	H	H1	W
50	178	150	114	90	18	4-18	235	283	180
65	190	165	127	103	18	4-18	240	288	180
80	203	185	146	122	18	4-18	295	341	200
100	229	215	178	154	20	4-18	330	375	200
150	267	280	235	211	23	8-18	422	466	280
200	292	335	292	268	23	8-18	522	573	320
225	305	370	324	300	24	8-18	603	653	320
250	330	405	356	328	24	8-22	603	653	450
300	356	455	406	378	30	12-22	683	732	450



Features

- Replaceable O-ring
- Low torque operation
- Rubber Encapsulated wedge
- Clockwise to close
- Fusion bonded epoxy coated inside and outside

Technical Specification

- Design conforms to AS2638.2
- Face to face according to AS2638.2
- Flange drilling according to AS4087 PN16
- Pressure test according to AS2638.2
- Top flange: ISO 5211
- Coating to AS4020; all fasteners: SS316

Material Specifications

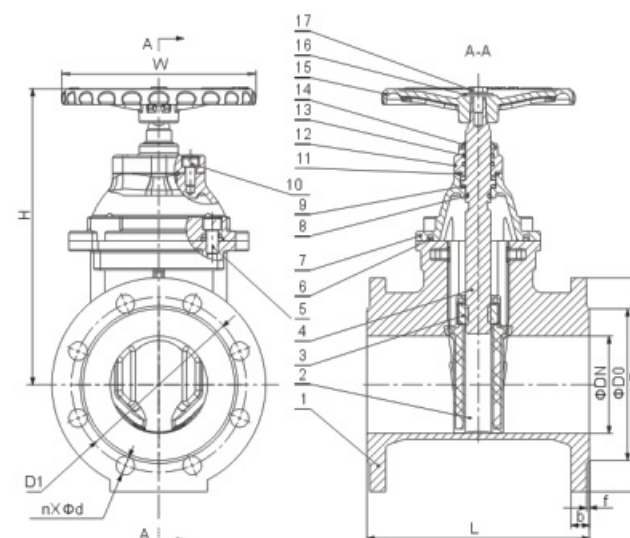
Item	Part Name	Material
1	Body	AS1831 500-7
2	Wedge	AS1831 500-7+EPDM(AS1646)
3	Stem	SS431
4	Stem Nut	Alu.Bronze C95210
5	Bonnet Gasket	EPDM(AS1646)
6	Bolt	Grade 8.8 steel
7	Bonnet	AS1831 500-7
8	Up Sealing	NBR(AS1646)
9	Nylon Washer	Nylon
	Bronze Washer	Alu.Bronze C95210

Item	Part Name	Material
10	O-Ring	NBR(AS1646)
11	O-Ring	NBR(AS1646)
12	O-Ring	NBR(AS1646)
13	ISO Top Flange	AS1831 500-7
14	Bronze Bush	Alu.Bronze C95210
15	CAP	AS1831 500-7
16	Dust Seal	EPDM
17	Handwheel	AS 1831 500-7

Dimensions(mm)

DN	L	D	D1	D2	b	n-d	H	H0	H01	H1	ΦW	Top Flange	ΦF1	ΦF2	ΦF3	h	m-d1
350	381	525	470	438	33	12-26	810	967	912	80	450	F16	210	165	130	5.5	4-22
375	381	550	495	463	33	12-26	915	1070	1016	80	450	F16	210	165	130	5.5	4-22
400	406	580	521	490	33	12-26	915	1070	1016	80	560	F16	210	165	130	5.5	4-22
450	432	640	584	552	33	12-26	987	1144	1088	80	560	F16	210	165	130	5.5	4-22
500	457	705	641	508	35	16-26	1068	1254	1204	110	800	F16	210	165	130	5.5	4-22
600	508	825	756	720	42	16-30	1237	1421	1374	110	800	F16	210	165	130	5.5	4-22

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Features

- Replaceable O-ring
- Low torque operation
- Rubber Encapsulated wedge
- Clockwise to close
- Fusion bonded epoxy coated inside and outside

Technical Specification

- Design According to :BS 5163
- Face to Face Dimension according to BS5163
- Flange Drilling according to BS4504-PN10/16
- Test According to ISO 5208.

Pressure Test To ISO5208		
DN	Pressure Rating(MPa)	Seat
50-300	1.0	1.1
	1.6	1.76

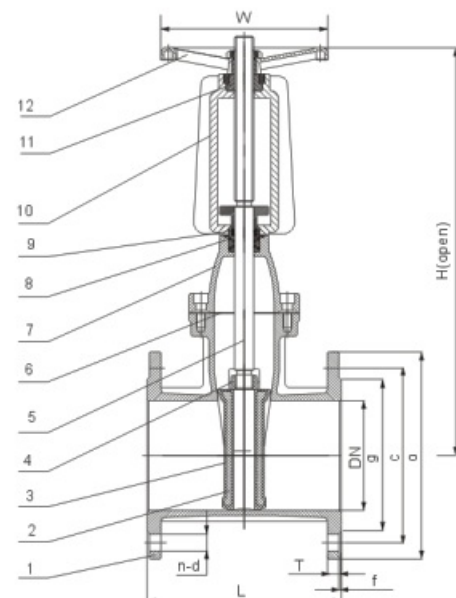
Material Specifications

Item	Part Name	Material
1	Body	GJS500-7
2	Wedge	GJS500-7+EPDM/NBR
3	Stem Nut	Bronze B62/Brass
4	Stem	S.Steel 1.4021
5	Bolt	S.Steel 1.4301
6	Bonnet Gasket	EPDM/NBR
7	Bonnet	GJS500-7
8	O Ring	EPDM/NBR

Item	Part Name	Material
9	Washer	Nylon
10	Bolt	S.Steel 1.4301
11	O Ring	EPDM/NBR
12	Gland	GJS500-7
13	O Ring	EPDM/NBR
14	Dust Guard	EPDM/NBR
15	Handwheel	GJS500-7
16	Washer	S.Steel 1.4301
17	Bolt	S.Steel 1.4301

Dimensions(mm)

DN	L	BS4054-PN10		BS4054-PN16		D	D0	b	H	W
		D1	nxd	D1	nxd					
DN50	178	125	4x19	125	4x19	165	99	19	226	180
DN65	190	145	4x19	145	4x19	185	118	19	238	180
DN80	203	160	8x19	160	8x19	200	132	19	287	200
DN100	229	180	8x19	180	8x19	220	156	19	305	200
DN125	254	210	8x19	210	8x19	250	184	19	354	250
DN150	267	240	8x23	240	8x23	285	211	19	404	280
DN200	292	295	8x23	295	12x23	340	266	20	512	360
DN250	330	350	12x23	355	12x28	405	319	22	612	400
DN300	356	400	12x23	410	12x28	460	370	24.5	722	450



Features

Outside stem and Yoke(OS&Y)
Bolt bonnet
Low torque operation
Rubber Encapsulated wedge
Clockwise to close
Fusion bonded epoxy coated inside and outside

Technical Specification

Design: BS5163
Face to face: BS5163
Flanges: BS4504 PN10/16
Hydraulic test to ISO 5208

DN	Pressure Rating(PN)	Hydro-test	Pressure(Mpa)
		Body	Seat
40-400	PN10	1.5	1.1
	PN16	2.4	1.76

Material Specifications

Item	Part Name	Material
1	Body	EN-GJS-500-7
2	Wedge	DI+EPDM
3		DI+NBR
4	Wedge Nut	Brass
5	Stem	AISI 420
6	Bonnet Gasket	EPDM/NBR

Item	Part Name	Material
7	Bonnet	EN-GJS-500-7
8	O-Ring	EPDM
9	O-Ring	EPDM
10	Yoke	EN-GJS-500-7
11	Stem Nut	Brass
12	Handwheel	EN-GJS-500-7

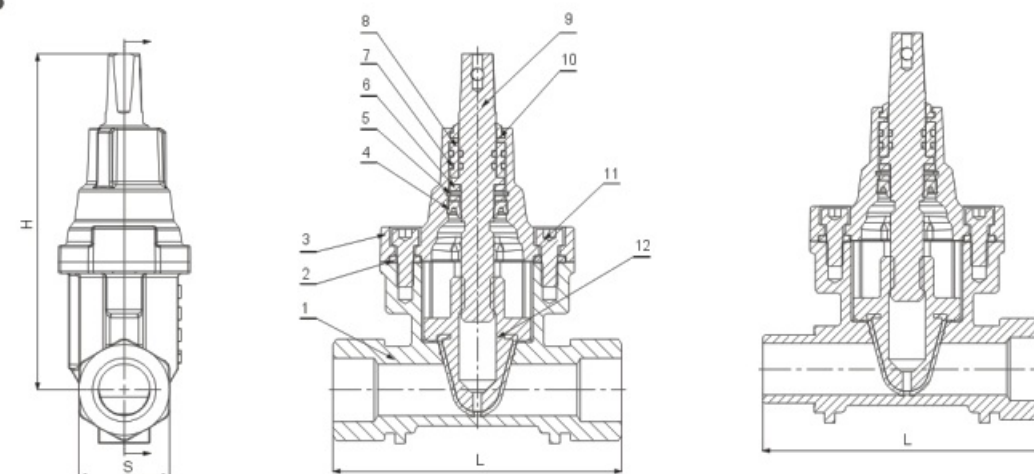
Dimensions(mm)

DN (mm)	L(mm) F4	H (mm)	W (mm)	O		C		g		f	T(QT)		n-d	T(HT)
				1.0MPa	1.6MPa	1.0MPa	1.6MPa	1.0MPa	1.6MPa		1.0MPa	1.6MPa	1.0MPa	1.6MPa
50	178	362	180	165		125		99		3	19		4-19	19
65	190	402	180	185		145		118		3	19		4-19	19
80	203	483	200	200		160		132		3	19		8-19	22
100	229	534	200	220		180		156		3	19		8-19	23
125	254	661	250	250		210		184		3	19		8-19	24
150	267	727	250	285		240		211		3	19		8-23	24
200	292	1030	320	340		295		265		3	20		8-23 12-23	26
250	330	1112	380	400	350	355		319		3	22		12-23 12-28	29
300	356	1291	380	455	400	410		370		4	24.5		12-23 12-28	29
350	381	1514	450	520	460	470		429		4	27		16-23 16-28	
400	406	1684	450	580	515	525		480		4	28		16-28 16-31	

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SERVICE VALVE

Z71772
Z71773



Technical Data

Size: DN20-DN50
Pressure Rating: PN16
For Drinking Water and Neutral Liquids to Max. 120°C
Internal and External Epoxy Coating to DIN30677-2

Accessories: Handwheel, stem cap, extension shaft, straight cover and T key.

Connection
Internal threaded both ends ISO228
One internal threaded ISO228 and one external thread EN10226-1
External thread both ends EN10226-1

Material Specifications

Item	Part Name	Material	Standard
1	Body	EN GJS500-7	EN1563
2	Bonnet Gasket	EPDM	EN681
3	Bonnet	EN GJS500-7	EN1563
4	V-Ring	EPDM	EN681
5	Elastic Collar	S.Steel 1.4301	EN ISO 4762
6	Washer	Nylon	BS EN ISO 1874
7	O-Ring	EPDM	EN681
8	Neck Bush	Nylon	BS EN ISO 1874
9	Stem	S.Steel 1.4021	EN ISO 4762
10	Dust Seal	EPDM	EN681
11	Bolt	S.Steel 1.4301	EN ISO 4762
12	Disc	CuZn40Pb2+EPDM	EN12164+EN681

Dimensions(mm)

Size	L		S	H
	SV-FF	SV-MF		
DN20/25	120	140	44	163
DN32	140	167	50	171
DN40	145	167	60	196
DN50	160	172	70	216

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METAL SEATED GATE VALVE

Body

Optimized cavity design, full bore, little flow resistance, excellent pressurization characteristics.

Seat Ring

Inlaid structure, anti-corrosive materials, excellent sealing property and long service life

Disc Ring

Anti-corrosive materials, excellent sealing property, and long time service

Stem

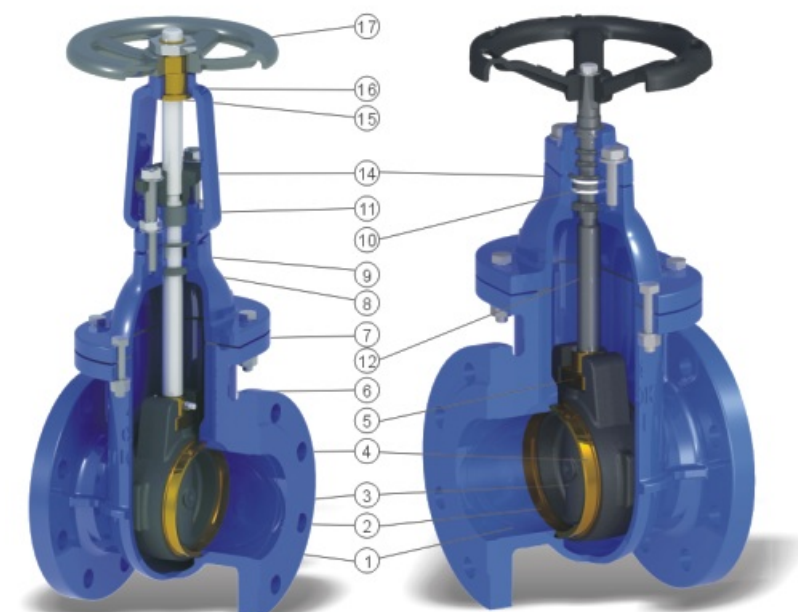
Stainless steel, corrosion proof, long service life, excellent mechanical property.

Gasket

Soft graphite, long service life, easy to seal and maintain

Nut

High quality carbon steel, better performance



Stud

High quality carbon steel, better performance

Packing

Soft graphite, long service life, easy to seal and maintain

Gland

High strength design, easy to use

T Bolt

T bolts and nuts, easy to install and repair.

Bonnet

High strength design, safe and credible.

Yoke Nut

Brass material, high intensity, small frictional coefficient, corrosion proof and long service life

Handwheel

High strength design, safe and credible.

Washer

High quality carbon steel, better performance

1. Replaceable O-ring, stem sealing, low open torque, easy to maintain



2. Graphite stem sealing, long service life, easy to maintain, high temperature resistant



METAL SEATED GATE VALVE

Application

The series of gate valve are specially designed to suit for transportation, distribution and extraction system in water, air, low pressure steam, gas and petroleum industry, not recommended for steam service

Normal Features

1. Brass or bronze seat ring
2. Non-asbestos packing and gasket
3. Disc seat rings in all sizes are pressed into disc
4. Big flow area, small flow resistance coefficient and excellent leak tightness in high pressure
5. Widely application fields, excellent adaptability
6. No direction demand, easy to install in pipes
7. Excellent material optionality.

Materials & Specifications

Item No.	Part Name	Material	Specification	
1	Body	Cast Iron	GG25(EN-GJL-250)	ASTM A126B
		Ductile Iron	GGG50(EN-GJS-500-7)	ASTM A536 65-45-12
2	Seat Ring	Brass	CuZn39Pb3	
		Bronze	EN 1982 CC491K	ASTM B62 C83600
		Stainless Steel		
3	Wedge	Cast Iron	GG25(EN-GJL-250)	ASTM A126B
		Ductile Iron	GGG50(EN-GJS-500-7)	ASTM A536 65-45-12
4	Wedge Ring	Brass	CuZn39Pb3	
		Bronze	EN 1982 CC491K	ASTM B62 C83600
		Stainless Steel		
5	Wedge Nut	Brass	COPPER ALLOY EN 12165	ASTM B16 C36000
6	Stem	Stainless Steel	X20Cr13	SS AISI 420
		Brass	CuZn39Pb3	ASTM B16 C36000
7	Bonnet Gasket	Graphite		
		Graphite With Soft Steel		
8	Back Seat	Bronze	EN 1982 CC491K	ASTM B62 C83600
9	Bonnet	Cast iron	GG25(EN-GJL-250)	ASTM A126B
		Ductile Iron	GGG50(EN-GJS-500-7)	ASTM A536 65-45-12
10	Stem Collar	Stainless Steel	X20Cr13	SS AISI 420
11	Packing	Graphite	Non-asbestos	Non-asbestos
12	Stem Sealing	EPDM O Ring		
13	Stuffing Box	Ductile Iron	GGG50(EN-GJS-500-7)	ASTM A536 65-45-12
14	Gland Flange	Ductile Iron	GGG50(EN-HJS-500-7)	ASTM A536 65-45-12
15	Stem Nut	Brass	COPPER ALLOY EN 12165	ASTM B16 C36000
16	Retaining Nut	Cast Iron	GG25(EN-GJL-250)	ASTM A126B
17	Handwheel	Ductile Iron	GGG50(EN-GJS-500-7)	ASTM A536 65-45-12

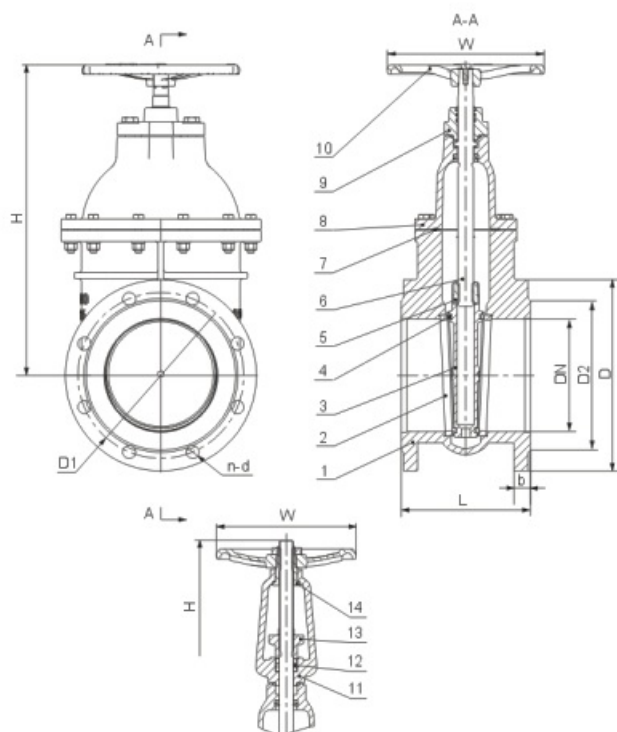
METAL SEATED GATE VALVE

EN1074-1,2 / EN558-1 14 SERIES

Z4724B(F4)
Z4124B(F4)

Features

- Bolted bonnet
- Solid wedge
- Clockwise to close
- Graphite packing
- Seat rings are pressed into wedge and body
- Face to face according to EN 1074-1,2 / EN 558-1 14 Series
- Flange drilling according to EN 1092-2 PN10/16
- Test according to ISO 5208
- Seat test pressure: PN10(11bar) , PN16(17.6bar)
- Shell test pressure: PN10 (15bar) , PN16 (24bar)



Material Specifications

Item	Part Name	Material
1	Body	EN-GJL-250
2	Seat Ring	Bronze B62/Brass
3	Wedge	EN-GJL-250
4	Wedge Ring	Bronze B62/Brass
5	Stem Nut	Bronze B62/Brass
6	Stem	AISI420
7	Bonnet Gasket	Graphite

Item	Part Name	Material
8	Bonnet	EN-GJL-250
9	Gland	EN-GJL-250
10	Handwheel	EN-GJL-250
11	Yoke	EN-GJL-250
12	Packing	Graphite
13	Gland Follower	EN-GJL-250
14	Yoke Nut	Bronze B62/Brass

Dimensions(mm)

DN	L		D		D1				D2				b				n-d				H		W	
	DIN 3202 F4	EN 1092-2 PN10	EN 21092-2 PN16	DIN 2533 PN10	DIN 2533 PN16	EN 1092-2 PN10	EN 21092-2 PN16	DIN 2533 PN10	DIN 2533 PN16	EN 1092-2 PN10	EN 21092-2 PN16	DIN 2533 PN10	DIN 2533 PN16	EN 1092-2 PN10	EN 21092-2 PN16	DIN 2533 PN10	DIN 2533 PN16	EN 1092-2 PN10	EN 21092-2 PN16	DIN 2533 PN10	DIN 2533 PN16	2472-24		2412-24 (Shut/ Open)
40	140	150		150		110		110		84		88		18		18		4-φ19		4-φ18		248	317/357	160
50	150	165		165		125		125		99		102		20		20		4-φ19		4-φ18		245	317/367	180
65	170	185		185		145		145		118		122		20		20		4-φ19		4-φ18		262	334/399	180
80	180	200		200		160		160		132		138		22		22		8-φ19		8-φ18		300	396/476	200
100	190	220		220		180		180		156		158		24		24		8-φ19		8-φ18		353	452/552	200
125	200	250		250		210		210		184		188		26		26		8-φ19		8-φ18		431	568/693	280
150	210	285		285		240		240		211		212		26		26		8-φ23		8-φ22		468	637/787	280
200	230	340		340		295		295		266		268		26	30	26	30	8-φ23	12-φ23	8-φ22	12-φ22	554	778/978	320
250	250	395	405	395	405	350	355	350	355	319		320		28	32	28	32	12-φ23	12-φ28	12-φ22	12-φ26	635	937/1187	360
300	270	445	460	445	460	400	410	400	410	370		370	378	28	32	28	32	12-φ23	12-φ28	12-φ22	12-φ26	723	1072/1372	450

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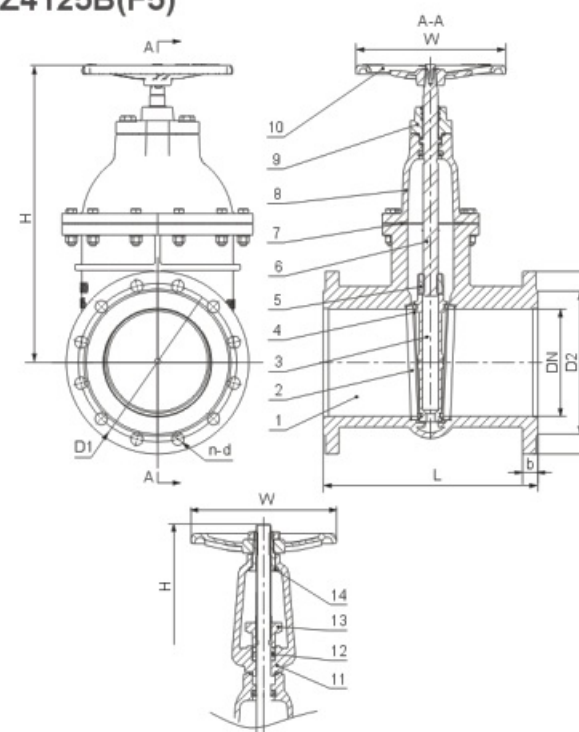
METAL SEATED GATE VALVE

EN1074-1,2 / EN558-1 15 SERIES

Z4725B(F5)
Z4125B(F5)

Features

- Bolted bonnet
- Solid wedge
- Clockwise to close
- Graphite packing
- Seat rings are pressed into wedge and body
- Face to face according to EN 1074-1,2 / EN 558-1 15 Series
- Flange drilling according to EN 1092-2 PN10/16
- Test according to ISO 5208
- Seat test pressure: PN10(11bar) , PN16(17.6bar)
- Shell test pressure: PN10(15bar) , PN16(24bar)



Material Specifications

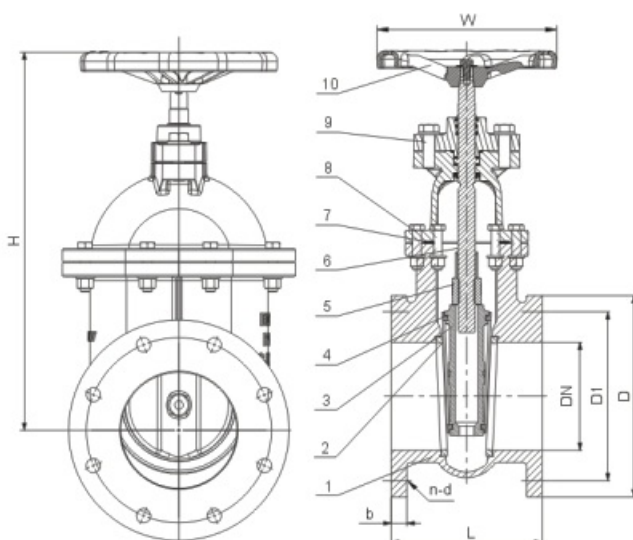
Item	Part Name	Material
1	Body	EN-GJL-250
2	Seat Ring	Bronze B62/Brass
3	Wedge	EN-GJL-250
4	Wedge Ring	Bronze B62/Brass
5	Stem Nut	Bronze B62/Brass
6	Stem	AISI420
7	Bonnet Gasket	Graphite

Item	Part Name	Material
8	Bonnet	EN-GJL-250
9	Gland	EN-GJL-250
10	Handwheel	EN-GJL-250
11	Yoke	EN-GJL-250
12	Packing	Graphite
13	Gland Follower	EN-GJL-250
14	Yoke Nut	Bronze B62/Brass

Dimensions(mm)

DN	L		D		D1				D2				b				n-d				H		W	
	DIN	EN	EN	DIN	DIN	EN	EN	DIN	DIN	EN	EN	DIN	DIN	EN	EN	DIN	DIN	EN	EN	DIN	DIN	Z47.25b		Z41.25b
	3202 F5	1092-21092-2 PN10	21092-2 PN16	2533 PN10	2533 PN16	1092-21092-2 PN10	21092-2 PN16	2533 PN10	2533 PN16	1092-21092-2 PN10	21092-2 PN16	2533 PN10	2533 PN16	1092-21092-2 PN10	21092-2 PN16	2533 PN10	2533 PN16	1092-21092-2 PN10	21092-2 PN16	2533 PN10	2533 PN16	247.25b		Shut/ Open
40	240	150		150		110		110		84		88		18		18		4-φ19		4-φ18		248	317/357	160
50	250	165		165		125		125		99		102		20		20		4-φ19		4-φ18		245	317/367	180
65	270	185		185		145		145		118		122		20		20		4-φ19		4-φ18		262	334/399	180
80	280	200		200		160		160		132		138		22		22		8-φ19		8-φ18		300	396/476	200
100	300	220		220		180		180		156		158		24		24		8-φ19		8-φ18		353	452/552	200
125	325	250		250		210		210		184		188		26		26		8-φ19		8-φ18		431	568/693	280
150	350	285		285		240		240		211		212		26		26		8-φ23		8-φ22		468	637/787	280
200	400	340		340		295		295		266		268	26	30	26	30	8-φ23	12-φ23	8-φ22	12-φ22		554	778/978	320
250	450	395	405	395	405	350	355	350	355	319		320	28	32	28	32	12-φ23	12-φ28	12-φ22	12-φ26		635	937/1187	360
300	500	445	460	445	460	400	410	400	410	370	370	378	28	32	28	32	12-φ23	12-φ28	12-φ22	12-φ26		723	1072/1372	450

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Features

- Bolted bonnet
- Solid wedge
- Clockwise to close
- Graphite packing
- Seat rings are pressed into wedge and body
- Face to face according to BS3464
- Flange drilling according to BS 10 Table D/E
- Test according to ISO 5208
- Seat test pressure: 17.6 bar
- Shell test pressure: 24 bar

Material Specifications

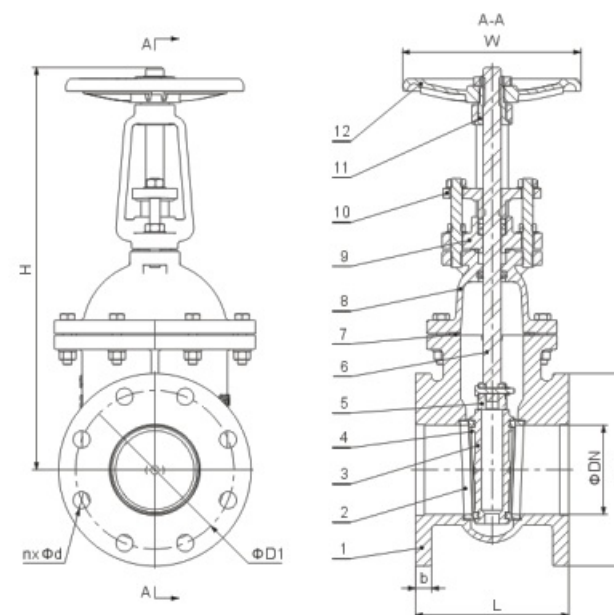
Item	Part Name	Material
1	Body	EN-GJL-250
2	Seat Ring	Bronze B62/Brass
3	Wedge	EN-GJL-250
4	Wedge Ring	Bronze B62/Brass
5	Stem Nut	Bronze B62/Brass

Item	Part Name	Material
6	Stem	AISI420
7	Bonnet Gasket	Graphite
8	Bonnet	EN-GJL-250
9	Gland	EN-GJL-250
10	Handwheel	EN-GJL-250

Dimensions(mm)

SIZE	L	D	BS10 TABLE D		BS10 TABLE E		JIS 10K		b	H	W
			D1	n-d	D1	n-d	D1	n-d			
50	146	155	114	4-18	114	4-18	120	4-19	16	242	180
65	161	175	127	4-18	127	4-18	140	4-19	18	261	180
80	165	185	146	4-18	146	4-18	150	8-19	18	318	200
100	172	216	178	4-18	178	8-18	175	8-19	18	353	200
125	191	254	210	8-18	210	8-18	210	8-23	20	445	280
150	210	280	235	8-18	235	8-22	240	8-23	22	480	280
200	241	337	292	8-18	292	8-22	290	12-23	22	590	320
250	273	406	356	8-22	356	12-22	355	12-25	24	650	360
300	305	457	406	12-22	406	12-25	400	16-25	25.4	730	450

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Features

- Bolted bonnet
- Solid wedge
- Outside screw and yoke
- Clockwise to close
- Graphite packing
- Seat rings are pressed into wedge and body
- Face to face according to BS3464
- Flange drilling according to BS 10 Table D/E
- Test according to ISO 5208
- Seat test pressure: 17.6 bar
- Shell test pressure: 24 bar

Material Specifications

Item	Part Name	Material
1	Body	EN-GJL-250
2	Seat Ring	Bronze B62/Brass
3	Wedge	EN-GJL-250
4	Wedge Ring	Bronze B62/Brass
5	Stem Nut	Bronze B62/Brass
6	Stem	AISI420

Item	Part Name	Material
7	Bonnet Gasket	Graphite
8	Bonnet	EN-GJL-250
9	Yoke	EN-GJL-250
10	Gland Follower	EN-GJL-250
11	Yoke Nut	Bronze B62/Brass
12	Handwheel	EN-GJL-250

Dimensions(mm)

SIZE	L	D	BS10 TABLE D		BS10 TABLE E		JIS 10K		B	H(Shut / Open)	W
			D1	n-d	D1	n-d	D1	n-d			
50	146	155	114	4-18	114	4-18	120	4-19	16	317/367	180
65	161	175	127	4-18	127	4-18	140	4-19	18	334/399	180
80	165	185	146	4-18	146	4-18	150	8-19	18	396/476	200
100	172	216	178	4-18	178	8-18	175	8-19	18	452/552	200
125	191	254	210	8-18	210	8-18	210	8-23	20	568/693	280
150	210	280	235	8-18	235	8-22	240	8-23	22	637/787	280
200	241	337	292	8-18	292	8-22	290	12-23	22	778/978	320
250	273	406	356	8-22	356	12-22	355	12-25	24	937/1187	360
300	305	457	406	12-22	406	12-25	400	16-25	25.4	1072/1372	450

Rubber encapsulated disc

Drain plug hole can drain the waste of the valve



Suitable for both horizontal and vertical installation

Fusion bonded epoxy coated inside and outside

The unique design of rubber flapper disc with the high-strength rubber reduces the wear and friction of the flow

Advantages

Excellent structure
Easy for maintenance
Reliable sealing
A Class leakage (o leakage)
Silent

The valves are mainly supplied to the drainage system, they can be installed at the pump outlets to prevent back flow and water hammer from damaging the pump.

The valve can also be installed in the reservoir inlet and outlet pipe on the bypass pipelines to prevent water back to the water supply system

Installation

When installing the valve, must pay attention to the flow direction. The flow direction must match with the direction marked by the arrow on the body. Or else, it will block the media's flow.

Do not make the check valve undertake the weight in the pipeline, for the big size check valves, they must be separately supported in order not to be affected by the weight of the pipelines

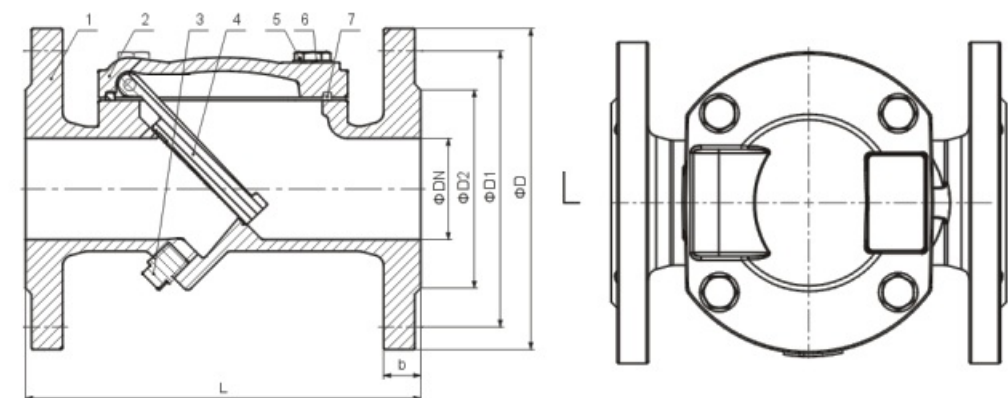
Flapper check valves can be horizontally or vertically installed in the pipelines.

In installation, the pipelines must be clean without wastes or debris.

The maximum temperature of the flow in the check valve is 40°C

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C61



- 1.Face to face according to EN558-1 basic series 10
- 2.Flange drilling according to EN1092-2 PN10/PN16
- 3.Pressure test according to ISO5208

Material Specifications

Item	Part Name	Material
1	Body	EN-GJS-500-7
2	Bonnet	EN-GJS-500-7
3	Plug	Galvanized Carbon Steel
4	Disc	EN-GJS-500-7+EPDM/NBR
5	Bolt	Galvanized Carbon Steel
6	Washer	Galvanized Carbon Steel
7	Gasket	EPDM/NBR

Dimensions(mm)

DN	L	D	EN1092-2 PN10			EN1092-2 PN16			b
			D1	D2	n-d	D1	D2	n-d	
DN50	203	165	125	99	4-19	125	99	4-19	19
DN65	216	185	145	118	4-19	145	118	4-19	19
DN80	241	200	160	132	8-19	160	132	8-19	19
DN100	292	220	180	156	8-19	180	156	8-19	19
DN125	330	250	210	184	8-19	210	184	8-19	19
DN150	356	285	240	211	8-23	240	211	8-23	19
DN200	495	340	295	266	8-23	295	266	12-23	20
DN250	622	400	350	319	12-23	355	319	12-28	22
DN300	698	455	400	370	12-23	410	370	12-28	24.5

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Technical Performances

Full bore ensured



Self cleaning ball

Low pressure drop



Horizontal and vertical installation in the pipelines.

The ball can be selected according to different media.

Silent

Removable bonnet for cleaning or changing the ball without disassembling the pipelines

Application:

Pumping stations for cleaning, sewage water, loaded or viscous fluids

Application:

Range

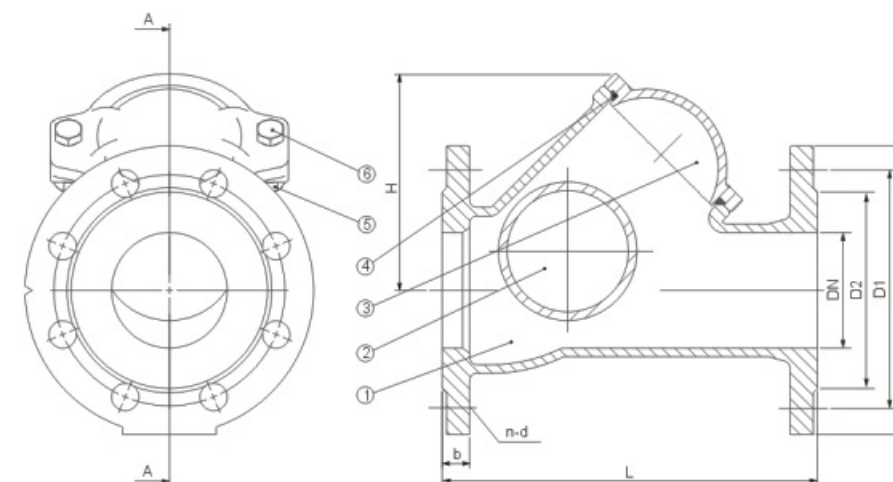
Thread ends from DN25 to DN80
Flanged ends from DN32 to DN 600
Threaded type: BSP according to ISO228-1
Flanged type: EN1092-2 PN16 and AS4087 AS4087(AS2129 Table E)
Maximum working pressure: 16 bars
Operating temperatures 10°C--80°C
Seat according to category A standard ISO5208
Minimum back pressure for tightness : 0.3 bar-0.5 bar
Face to face dimensions for flanged type according to EN558-1 series 48(DIN3202 F6)

Test

Seat: 1.1X normal pressure
Body: 1.5X normal pressure

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CB1



Material Specifications

Item	Part Name	Material
1	Body	
2	Ball	Steel+EPDM
3	Bonnet	DI (EN-GJS-500-7)
4	Bonnet Gasket	EPDM/NBR
5	Bolt	SS304/SS316
6	Nut	SS304/SS316

1.Face to face according to EN558-1

basic series 4 8& DIN3202 F6

2.Flange drilling according to EN1092-2 PN10/16

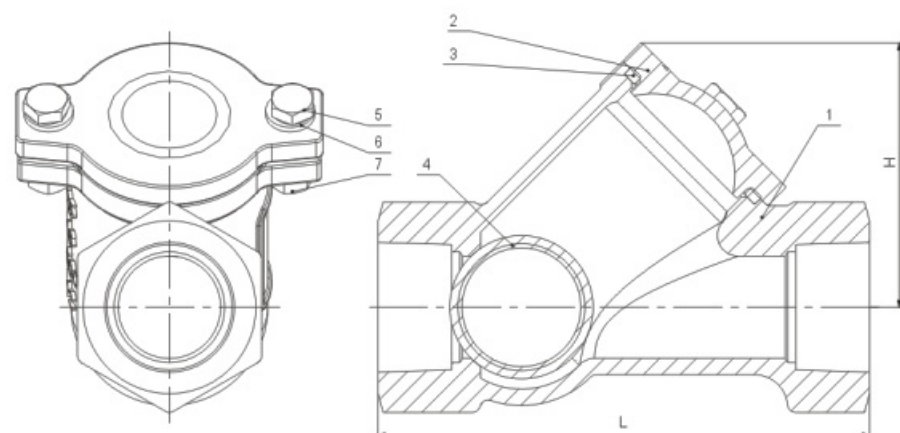
Dimensions(mm)

Size	L	D	EN 1092-2 PN10			EN 1092-2 PN 16			b	H
			D1	D2	n-d	D1	D2	n-d		
32	180	150	100	76	4-19	100	76	4-19	19	90
40	180	150	110	84	4-19	110	84	4-19	19	90
50	200	165	125	99	4-19	125	99	4-19	19	100
65	240	185	145	118	4-19	145	118	4-19	19	125
80	260	200	160	132	8-19	160	132	8-19	19	136
100	300	220	180	156	8-19	180	156	8-19	19	185
125	350	250	210	184	8-19	210	184	8-19	19	196
150	400	285	240	211	8-23	240	211	8-23	19	265
200	500	340	295	266	8-23	295	266	12-23	20	340
250	600	400	350	319	12-23	355	319	12-28	22	420
300	700	455	400	370	12-23	410	370	12-28	24.5	480
350	800	520	460	429	16-23	470	429	16-28	26.5	618
400	900	580	515	480	16-28	525	480	16-31	28	682
450	1000	640	565	530	20-28	585	548	20-31	30	791
500	1150	715	620	582	20-28	650	609	20-34	32	866
600	1350	840	725	682	20-31	770	720	20-37	36	1110

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THREAD BALL CHECK VALVE

CB2



Material Specifications

Item	Part Name	Material
1	Body	EN-GJS-500-7
2	Bonnet	EN-GJS-500-7
3	O Ring	EPDM/NBR
4	Ball	S.Steel 1.4301/1.4401+Graphite
5	Bolt	S.Steel 1.4301/1.4401
6	Washer	S.Steel 1.4301/1.4401
7	Nut	S.Steel 1.4301/1.4401

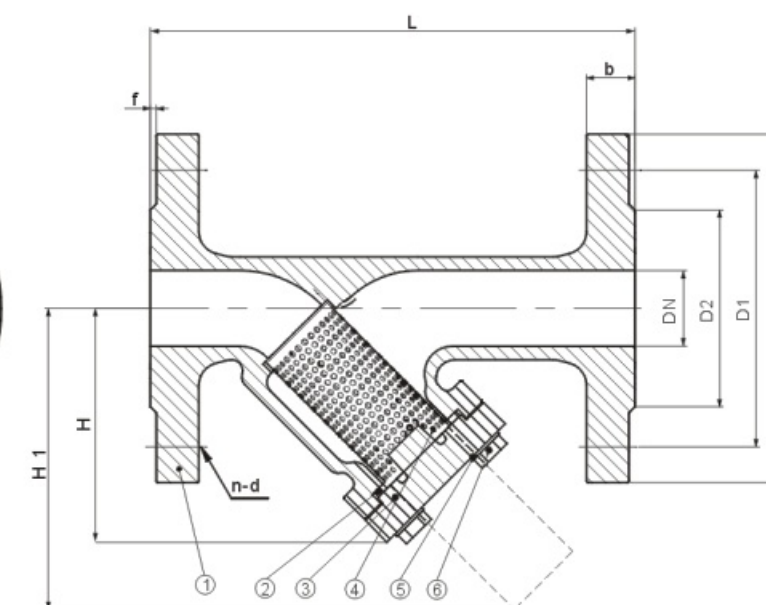
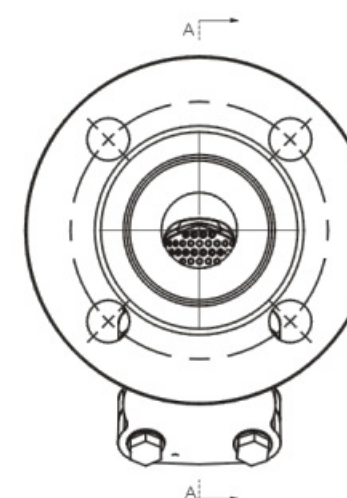
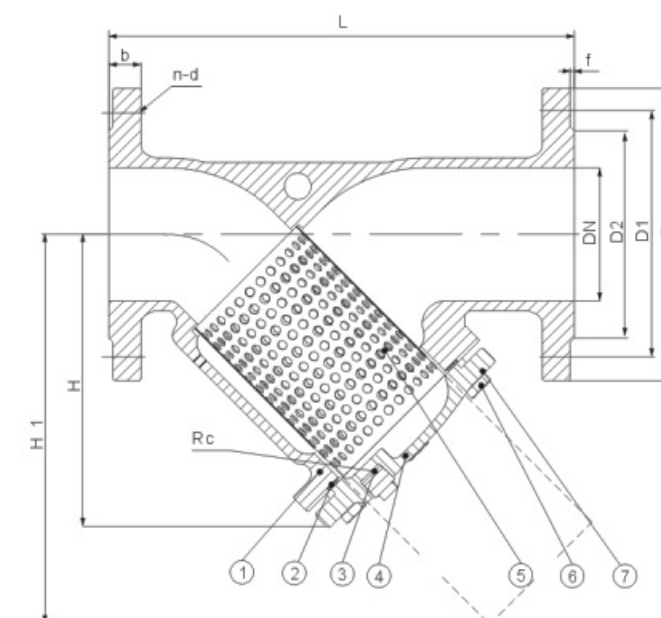
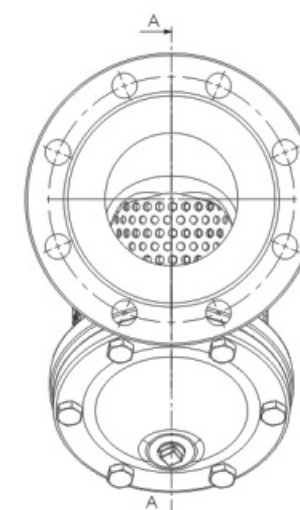
Dimensions(mm)

DN	L	H
DN25	120	65
DN32	135	75
DN40	145	88
DN50	174	106
DN65	200	125
Dn80	248	155

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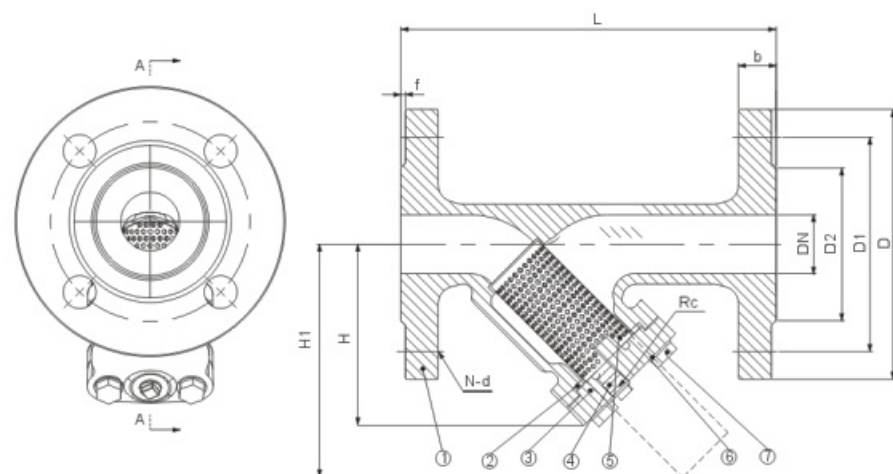
DIN/BS Y STRAINER

S410
S420



DIN/BS Y STRAINER

S410
S420



Material Specifications

Item	Part Name	Material
1	Body	EN-GJL-250(DN15-300)/GJS-500-7(DN15-600)
2	Bonnet	EN-GJL-250(DN15-300)/GJS-500-7(DN15-600)
3	Screen	S.Steel 1.4301/1.4401
4	Cover Gasket	S.Steel 1.4301/1.4401+Graphite/EPDM/NBR
5	Plug	S.Steel 1.4301/1.4401
6	Bolt	S.Steel 1.4301/1.4401
7	Washer	S.Steel 1.4301/1.4401

Features

Y- Pattern
Stainless Steel Screen
Bolted Cover
Flanged Ends
Fusion bonded epoxy Coated

Technical Specification

Face to face according to DIN 3202-F1
Hydraulic Test to ISO5208
Flange Drilling according to EN 1092-2PN10/16

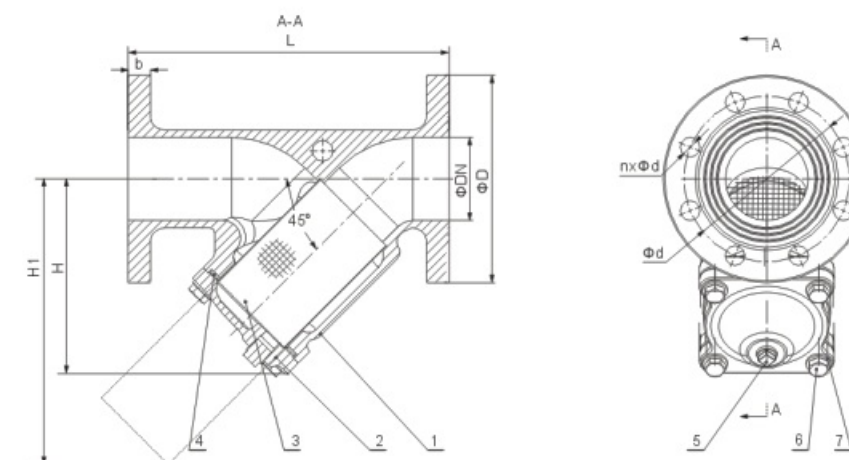
Dimensions(mm)

DN	L	EN 1092-2 PN10				EN1092-2 PN16				b	H	H1
		D	D1	D2	n-d	D	D1	D2	n-d			
DN15	130	95	65	46	4-14	95	65	46	4-14	14	65	85.9
DN20	150	105	75	56	4-14	105	75	56	4-14	16	70	94.4
DN25	160	115	85	65	4-14	115	85	65	4-14	16	81	109
DN32	180	140	100	76	4-18	140	100	76	4-18	18	91	128
DN40	200	150	110	84	4-18	150	110	84	4-18	18	111	155
DN50	230	165	125	99	4-18	165	125	99	4-18	20	137	181
DN65	290	185	145	118	4-18	185	145	118	4-18	20	165	225
DN80	310	200	160	132	8-18	200	160	132	8-18	22	190	265
DN100	350	220	180	156	8-18	220	180	156	8-18	24	220	295
DN125	400	250	210	184	8-18	250	210	184	8-18	26	261	358
DN150	480	285	240	211	8-23	285	240	211	8-23	26	307	429
DN200	600	340	295	266	8-23	340	295	266	12-23	30	378	558
DN250	730	400	350	319	12-23	400	355	319	12-28	32	438	657
DN300	850	455	400	370	12-23	455	410	370	12-28	32	511	769
DN350	980	505	460	429	16-23	520	470	429	16-28	26.5	610	890
DN400	1100	565	515	480	16-28	580	525	480	16-31	28	690	1009
DN450	1200	615	565	530	20-28	640	585	548	20-31	30	753	1114
DN500	1250	670	620	582	20-28	715	650	609	20-34	32	870	1295
DN600	1450	780	725	682	20-31	840	770	720	20-37	36	1025	1530

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ANSI Y STRAINER

S323
S313



Material Specifications

Item	Part Name	Material
1	Body	A 126B/A536 65-45-12
2	Bonnet	A 126B/A536 65-45-12
3	Screen	SS304/SS316
4	Bonnet Gasket	SS304/SS316+Graphite/EPDM/NBR
5	Plug	SS304/SS316
6	Bolt	SS304/SS316
7	Washer	SS304/SS316

Features

Y- Pattern
Stainless Steel Screen
Bolted Cover
Flanged Ends
Fusion bonded epoxy Coated

Technical Specification

Flanges:ANSI B16.1 Class125/ANSI B 16.5 Class 150
Hydraulic Test to ISO5208
Shell Test Pressure:1.5 times of rating pressure

Dimensions(mm)

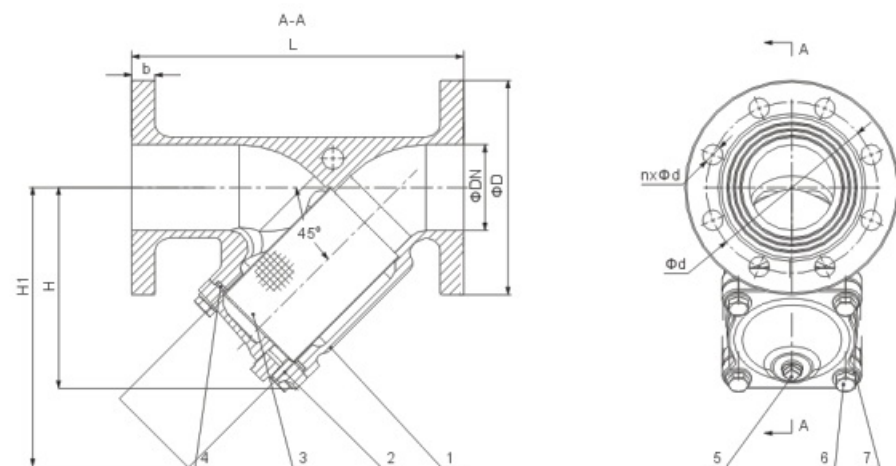
Size	DN	L	Class125			Class150			b	H	H1
			D	D1	nxd	D	D1	nxd			
2"	50	225.4	152	120.5	4x19	150	120.7	4x19	17.5	137	181
2.5"	65	273	178	139.5	4x19	180	139.7	4x19	20.7	165	225
3"	80	292	191	152.5	4x19	190	152.4	4x19	22.3	190	265
4"	100	352	229	191	8x19	230	191	8x19	23.9	220	295
5"	125	416	254	216	8x22	255	216	8x22	23.9	261	358
6"	150	470	279	242	8x22	280	241	8x22	25.4	307	429
8"	200	543	343	299	8x22	345	299	8x22	28.6	378	558
10"	250	660	406	362	12x25	405	362	12x25	30.2	438	657
12"	300	762	483	432	12x25	485	432	12x25	31.8	511	769
14"	350	946	533	476	12x29	535	476	12x29	35	610	890
16"	400	1079	597	540	16x29	595	540	16x29	36.6	690	1009
18"	450	1168	635	578	16x32	635	578	16x32	39.7	753	1114
20"	500	1275	699	635	20x32	700	635	20x32	42.9	870	1295
24"	600	1418	813	750	20x35	815	749	20x35	47.7	1025	1530

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AS Y STRAINER

AS2129

S111
S121



Material Specifications

Item	Part Name	Material
1	Body	A126B/A536 65-45-12
2	Bonnet	A126B/A536 65-45-12
3	Screen	SS304/SS316
4	Bonnet Gasket	SS304/SS316+Graphite/EPDM/NBR
5	Plug	SS304/SS316
6	Bolt	SS304/SS316
7	Washer	SS304/SS316

Features

Y- Pattern
Stainless Steel Screen
Bolted Cover
Flanged Ends
Fusion bonded epoxy Coated

Technical Specification

Flanges:AS2129 TABLE D/E
Hydraulic Test to ISO5208
Shell Test Pressure:1.5 times of rating pressure

Dimensions(mm)

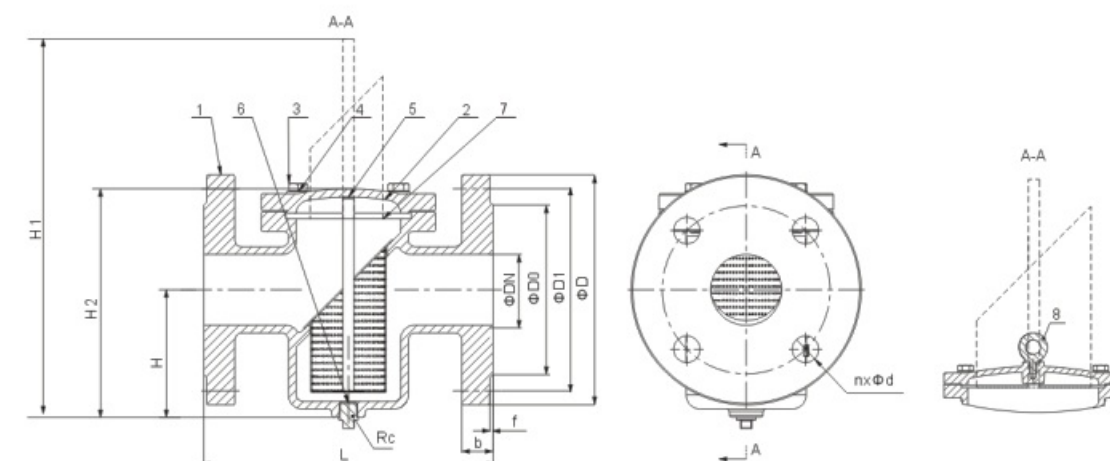
Size	DN	L	AS2129-Table D			AS2129 -Table E			b	H	H1
			D	D1	nxd	D	D1	nxd			
2"	50	225.4	150	114	4x18	150	114	4x18	17	137	181
2.5"	65	273	165	127	4x18	165	127	4x18	17	165	225
3"	80	292	185	146	4x18	185	146	4x18	19	190	265
4"	100	352.4	215	178	4x18	215	178	4x18	19	220	295
5"	125	416	255	210	8x18	255	210	8x18	21	261	358
6"	150	470	280	235	8x18	280	235	8x22	21	307	429
8"	200	543	335	292	8x18	335	292	8x22	22	378	558
10"	250	660.4	405	356	8x22	405	356	12x22	30.2	438	657
12"	300	762	455	406	12x22	455	406	12x26	31.8	511	769
14"	350	946.3	525	470	12x26	525	470	12x26	35	610	890
16"	400	1079	580	521	12x26	580	521	12x26	36.6	690	1009
18"	450	1168	640	584	12x26	640	584	16x26	39.7	753	1114
20"	500	1275	705	641	16x26	705	641	16x26	42.9	870	1295
24"	600	1418	825	756	16x30	825	756	16x33	47.7	1025	1530

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SIMPLEX BASKET STRAINER

EN 1092-2

S326A



Material Specifications

Item	Part Name	Material
1	Body	A126B/A536 65-45-12
2	Bonnet	A126B/A536 65-45-12
3	Bolt	SS304/SS316
4	Washer	SS304/SS316
5	Screen	SS304/SS316
6	Plug	SS304/SS316
7	Gasket	SS304/SS316+Graphite
8	Lifting Bolt	Galvanized Steel

Technical Features

Flange drilling according to EN1092-2 PN10/16

Testing according to ISO5208

Pressure rating 1.0/1.6 MPa

Hydro-test body pressure 1.5/2.4Mpa

ANSI standard is also available

Dimensions(mm)

DN	L	D	EN 1092-2-PN10			EN 1092-2-PN16			b	f	H	H1	Rc	Plug
			D0	D1	nxd	D0	D1	nxd						
50	206	165	99	125	4x19	99	125	4x19	20	3	285.5	91.5	1/4"	
65	210	185	118	145	4x19	118	145	4x19	20	3	331	107	1/4"	
80	251	200	132	160	8x19	132	160	8x19	22	3	385.5	124.5	3/8"	
100	292	220	156	180	8x19	156	180	8x19	24	3	448	145	3/8"	
125	333	250	184	210	8x19	184	210	8x19	26	3	535	173	3/4"	
150	378	285	211	240	8x23	211	240	8x23	26	3	617	199	3/4"	
200	475	340	266	295	8x23	266	295	12x23	30	3	799	254	1"	M12
250	511	400	319	350	12x23	319	355	12x28	32	3	971	308	1 1/4"	M12
300	667	455	370	400	12x23	370	410	12x28	32	4	1140	359	1 1/4"	M12
350	768	520	429	460	16x23	429	470	16x28	36	4	1333	423	1 1/2"	M16
400	842	580	480	515	16x28	480	525	16x31	38	4	1471	474	1 1/2"	M16
450	976	640	530	565	20x28	548	585	20x31	40	4	1638	533	2"	M16
500	1051	715	582	620	20x28	609	650	20x34	42	4	1855	585	2"	M16
600	1054	840	682	725	20x31	720	770	20x37	48	5	2142	685	2"	M16

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