山西艾森特工贸有限公司

SHANXI ASCENT INDUSTRIAL CO.,LTD

Ascent

PIPELINE LIFE 50 YEARS

DI VALVE

- Gate Valve
- Butterfly Valve
- Check Valve
- Air Valve
- Strainer
- Fire Hydrant
- Other Valves and Products

Ascent

PIPELINE LIFE 50 YEARS

Shanxi Ascent Industrial Co., Ltd

is a manufacturing leader in Water Pipelines, Sewerage and Pipings for steam, air, gas, oil, etc. from 2010 in China.

► Products:

• DI pipe, Fitting, Dismantling Joint, Flange adaptor, Coupling, Saddle, Rubber Flexible, Repair clamp;
EN545, EN598, ISO2531, EN12842, EN14525, AWWA C153/C110……

• DI Gate valve, Butterfly valve, Check valve, Air valve, Strainer, Control valve, Fire hydrant, etc;
DIN 3352, EN1074, EN1171, BS5163, EN593, AWWA C509/C515, API 609……

• DI Gully top, Manhole top, Surface box and Manhole step, Drainage channel grating;
EN124-1, EN124-2, EN1433, EN13101……

• Steel Pipe, Fitting
ASTM A53, ASTM A106, ASTM A335, ASTM A312, ASME B36.10M, ASME B36.19.
EN10216, EN10217, EN10224,ASME B16.9, ASME B16.28, ASME B16.11, ASTM A865,
EN1053, JIS B2311, JIS B2312, JIS B2313, DIN……

• Steel flange, DI Flange;
ASME B16.5, ASME B16.47, ASME B16.42, EN1092-1, EN1092-2, BS10,
DIN, JIS B2220, SANS 1123……

• Steel Gate valve, Butterfly valve, Check valve, Ball valve, Globe valve, etc;
API 602, API 603, API 600, API 623, API 608, API 6D, API 594……

• Malleable Iron Fitting;
ASME B16.3, ASME B16.39, ASME B16.14, EN10242, BS 143&1256, DIN, EN10226, ISO7-1, ISO49

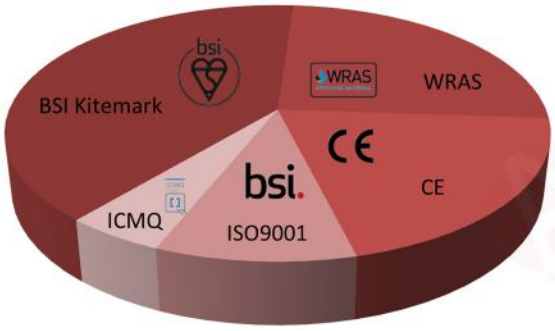
• CI Pipe, Fitting and Accessories;
EN877, ISO 6594, ASTM A888…….

• PE / HDPE / PVC-O.U.C.HI thermoplastic pipe, fitting, valve and joints;
EN12201, ISO4422, ISO1452, ISO16422……

• Water Meter and Flow Meter;
ISO4064, ISO 20456, ISO9951, ISO12764, ISO5167, ISO2714, ISO12242, ISO10790……

• DI, CI, Steel castings, OEM, ODM;
ISO 8062……

► Hold certificates:



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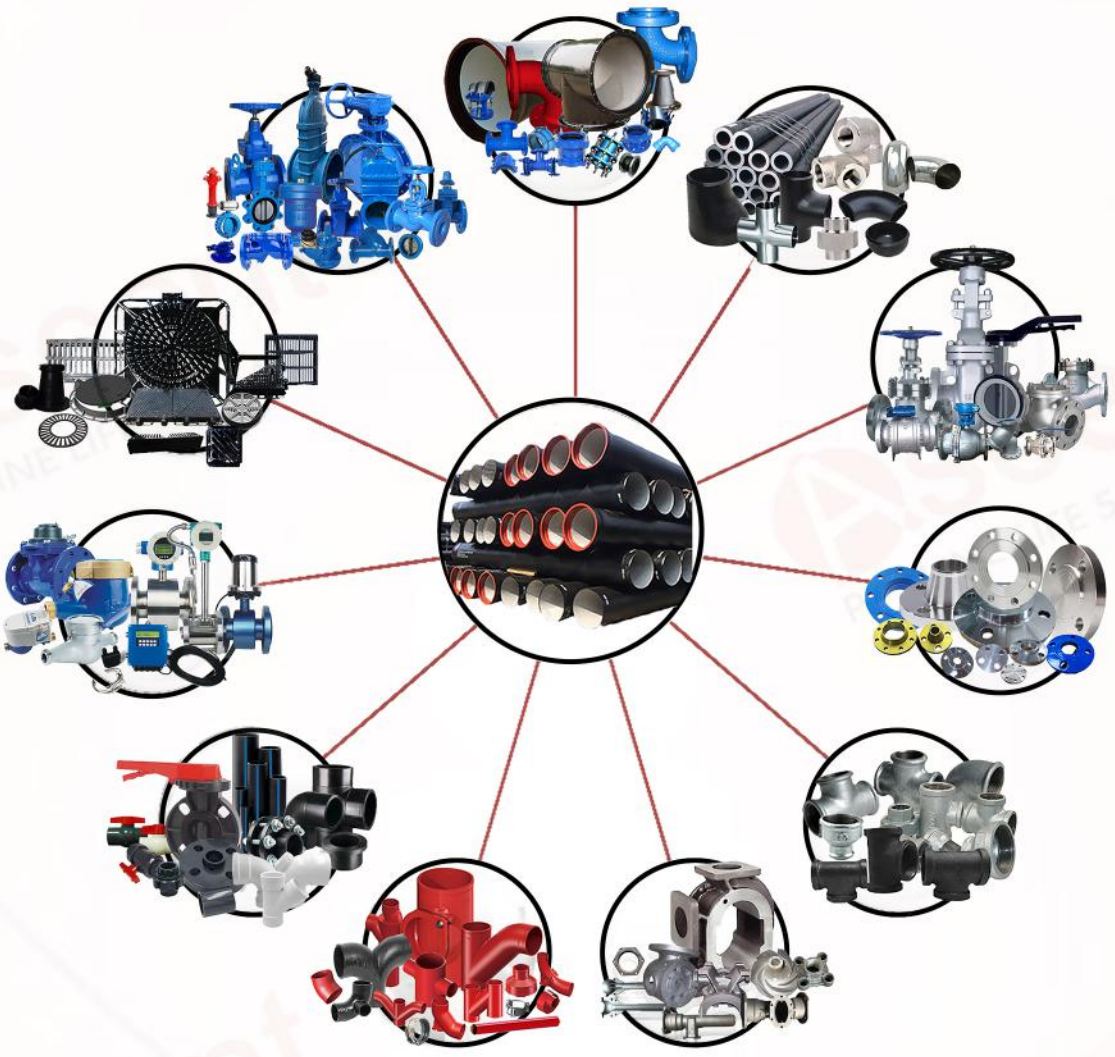
► Images:



► Vision: To become a world-class supplier of pipelines.
Mission: Satisfy and solve all requirements in the whole pipelines.
Value: Customer centric, Respect the individual, Team spirit.

GENERAL

▶DI GATE VALVE

	CONNECTION	OPERATING MECHANISM(STEM) SEALING	NOMINAL SIZE	OPERATING DEVICE	STANDARD & PRESSURE		
DI NON-RISING STEM(NRS) RESILIENT SEATED GATE VALVE	FLANGED END	BRASS BUSHING	DN40-DN600	HANDWHEEL, CAP, EXTENSION SPINDLE	DIN3352 DIN3202 F4/F5 EN1092-2 PN10/PN16 DIN2501	BS5163 EN558 SER3 EN1092-2 PN10/PN16	EN1171 EN558 SER14/SER15 EN1092-2 PN10/PN16
		DI GLAND	DN40-DN600	HANDWHEEL, CAP, EXTENSION SPINDLE			
		DI TOP FLANGE	DN40-DN600	ManualGEARBOX (top flange ISO5210)			
		DI TOP FLANGE /YOKE	DN400-DN1000	Manual GEARBOX or ACTUATOR or ACTUATOR+ GEARBOX(top flange ISO5210)			
	SOCKETED END	BRASS BUSHING	DN50/OD63-DN300/OD315	HANDWHEEL, CAP, EXTENSION SPINDLE	DIN3352 DIN3202-F5 EN12842 PFA 16BAR	-	-
	THREADED END	BRASS BUSHING	DN20 25 32 40 50	HANDWHEEL, CAP	BS5150 ISO228 PFA 16BAR	-	-

NOTE:

1. WE ALSO PROVIDE BELOW:

> DI NON-RISING STEM(NRS) METAL SEATED GATE VALVE：

> DI RISING STEM(RS) / OUTSIDE SCREW & YOKE (OS&Y)RESILIENT SEATED GATE VALVE,

> DI RISING STEM(RS) / OUTSIDE SCREW & YOKE (OS&Y)METAL SEATED GATE VALVE.

> AMERICAN STANDARD DI GATE VALVE, AWWA509/519, FACE TO FACE ASME B16.10, FLANGE ASME B16.42.

> AUSTRALIAN STANDARD DI GATE VALVE, AS/NZS2638.2, FLANGE AS4087.

> RUSSIA STANDARD DI GATE VALVE, GOST9544

> SOUTH AFRICAN STANDARD DI GATE VALVE, SABS664, FLANGE SABS1123

> CONNECTION SPIGOT END, WELDING END, SOCKET END FOR DI PIPE, GROOVE END, COUPLING WITH BRASS RING END.

> For OPERATING DEVICE, OPTIONAL "ROTORK" brand

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▶DI BUTTERFLY VALVE

DI BUTTERFLY VALVE	CONNECTION	NOMINAL SIZE	OPERATING DEVICE	STANDARD
DI DOUBLE FLANGE DOUBLE ECCENTRIC RESILIENT/SOFT SEATED BUTTERFLY VALVE	FLANGED END	DN100-DN2000	manual GEARBOX or ACTUATOR or ACTUATOR+ GEARBOX (ISO 5210/5211)	BS5155 EN593 EN558 SER 13/14 EN1092-2PN10/PN16
DI DOUBLE FLANGE CONCENTRIC RESILIENT/SOFT SEATED BUTTERFLY VALVE	FLANGED END	DN50-DN1200	manual GEARBOX or ACTUATOR or ACTUATOR+ GEARBOX (ISO 5210/5211)	
DI LUG RESILIENT SEATED BUTTERFLY VALVE	FLANGED END (THREADED HOLE)	DN40-DN300	manual LEVER, manual GEARBOX (ISO5211)	BS5155 EN593 EN558 SER20 EN1092-2 PN10/PN16
DI WAFER RESILIENT/SOFT SEATED BUTTERFLY VALVE	WAFER	DN40-DN300	manual LEVER, manual GEARBOX (ISO5211)	

NOTE:

1. WE ALSO PROVIDE METAL SEATED BUTTERFLY VALVE.
2. AMERICAN STANDARD BUTTERFLY VALVE, API609, FLANGE ASME B16.42.
3. For OPERATING DEVICE, OPTIONAL "ROTORK" brand.

▶DI CHECK VALVE

DI CHECK VALVE	CONNECTION	NOMINAL SIZE	STANDARD
DI SWING CHECK VALVE	FLANGED END	DN50-DN1000	EN12334 EN558 SER48/12/16 EN1092-2 PN10/PN16
DI SWING CHECK VALVE WITH COUNTER WEIGHT	FLANGED END	DN50-DN1000	
DI BUTTERFLY CHECK VALVE	FLANGED END	DN100-DN1000	
DI BALL CHECK VALVE	FLANGED END	DN50-DN300	
DI SILENT CHECK VALVE	FLANGED END	DN50-DN300	
DI DOUBLE PLATE WAFER CHECK VALVE	WAFER	DN50-DN300	

▶DI AIR VALVE

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DI AIR VALVE	CONNECTION	NOMINAL SIZE	STANDARD
DI DOUBLE ORIFICE AIR VALVE	FLANGED END	DN50-DN200	EN1074-4 EN1092-2 PN10/PN16 ISO228 PFA 16BAR
DI SINGLE ORIFICE AIR VALVE	FLANGED END	DN50-DN200	
DI SINGLE ORIFICE AIR VALVE with THREADED END	THREADED END	NPS1/2"-NPS2"	

▶DI STRAINER

DI STRAINER	CONNECTION	NOMINAL SIZE	STANDARD
DI Y-TYPE STRAINER	FLANGED END	DN50-DN300	EN1092-2 PN10/PN16
DI T-TYPE STRAINER	FLANGED END	DN50-DN300	EN1092-2 PN10/PN16

▶DI FIRE HYDRANT

DI FIRE HYDRANT	CONNECTION	NOMINAL SIZE	STANDARD
DI UNDERGROUND FIRE HYDRANT	FLANGED END	DN80	BS750 TYPE 2 EN1092-2 PN16/PN25
DI PILLAR FIRE HYDRANT	FLANGED END	DN80 DN100 DN150	EN14384 EN1092-2 PN16

▶OTHER VALVES and PRODUCTS

OTHER VALVES and PRODUCTS	CONNECTION	NOMINAL SIZE	STANDARD
DI FOOT VALVE	FLANGED END	DN50-DN400	EN1092-2 PN10/PN16
DI FLAP VALVE	FLANGED END	DN50-DN300	EN1092-2 PN10/PN16
DI PLUNGER VALVE	FLANGED END	/	EN1092-2 PN10/PN16
DI GLOBE VALVE	FLANGED END	DN50-DN300	BS5152 EN1092-2 PN10/PN16
EXTENSION SPINDLE	/	/	/
DI SURFACE BOX	/	/	BS750
DI ELECTROMAGNETIC FLOWMETER	FLANGED END	DN50-DN300	EN1092-2 PN10/PN16
DI MECHANICAL WATERMETER	FLANGED END	DN50-DN300	EN1092-2 PN10/PN16
DI CONTROL VALVE	FLANGED END	DN50-DN450	FLOW RATE LEVEL PRESSURE EN1092-2 PN10/PN16
DI PENSTOCK	/-	300X300-1300X1300 400X300-2000X1500	15BARS

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Pressure Reference

EN					ASME			JIS		
PN	Pressure				Class	Pressure		K	Pressure	
	Bar	Mpa	PSI	Kpa		Psi	Kpa		Bar	Mpa
					25	25	172			
2.5	2.5	0.25	36.25	250						
					75	75	517	5k	5	0.5
6	6	0.6	87	600						
					125	125	861			
10	10	1	145	1000				10k	10	1
					150	150	1034			
16	16	1.6	232	1600				16k	16	1.6
								20k	20	2
					250	250	1723			
					300	300	2068			
25	25	25	362.5	2500						
					400	400	2758			
								30k	30	3
40	40	4	580	4000				40k	40	4
					600	600	4137			
					900	900	6205			
63	63	63	913	6300				63k	63	63
100	100	10	1450	10000						
					1500	1500	10342			
					2500	2500	17237			
250	250	25	3625	25000						
320	320	32	4640	32000						
400	400	40	5800	40000						

Note:

① 1mpa=10bar
② 1bar=100kpa
③ 1bar=14.5psi
④ 1psi=6.895kpa
⑤ special pressure-temperature rating

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CONTENT

DI NON-RISING STEM(NRS) RESILIENT SEATED GATE VALVE FLANGED END, BRASS BUSHINGDN40-DN600

● DIN3352-F4 BRASS BUSHING DN40-600 MANUAL HANDWHEEL

Table 1. Design Requirement

Standard	DIN 3352
Face to Face	DIN3202-F4
Connection	FlangedEN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension(mm)

DN	L	H	φD		φK		b		n-φd		Tr
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
40	140	190	150		110		19		4-φ19		Tr18×8(P4)LH
50	150	215	165		125		19		4-φ19		Tr18×8(P4)LH
65	170	235	185		145		19		4-φ19		Tr21×8(P4)LH
80	180	265	200		160		19		8-φ19		Tr21×8(P4)LH
100	190	315	220		180		19		8-φ19		Tr24×10(P5)LH
125	200	350	250		210		19		8-φ19		Tr26×10(P5)LH
150	210	385	285		240		19		8-φ23		Tr26×10(P5)LH
200	230	485	340		295		20		8-φ23	12-φ23	Tr32×12(P6)LH
250	250	600	400		350	355	22		12-φ23	12-φ28	Tr34×12(P6)LH
300	270	680	455		400	410	24.5		12-φ23	12-φ28	Tr34×12(P6)LH
350	290	810	505	520	460	470	24.5	26.5	16-φ23	16-φ28	Tr40×12(P6)LH
400	310	890	565	580	515	525	24.5	28	16-φ28	16-φ31	Tr40×12(P6)LH
450	330	1050	615	640	565	585	24.5	30	20-φ28	20-φ31	Tr46×16(P8)LH
500	350	1230	670	715	620	650	26.5	31.5	20-φ28	20-φ34	Tr46×16(P8)LH
600	390	1260	780	840	725	770	30	36	20-φ31	20-φ37	Tr55×18(P9)LH

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Stem	Stainless Steel
	4	Disc	Ductile Iron
	5	Disc Seat	EPDM
	6	Stem Nut	Brass
Sealing	7	Dustproof Ring	EPDM/NBR
	8	O-Ring	
	9	O-Ring	
	10	O-Ring	
	11	Bonnet Bushing	Brass
	12	Thrust Collar	
	13	Gasket	EPDM
Fastener	14	Bolt	Stainless Steel
	15	Bolt and Washer	
Operating Device and Direction	16	Handwheel with clockwise closed	Ductile Iron

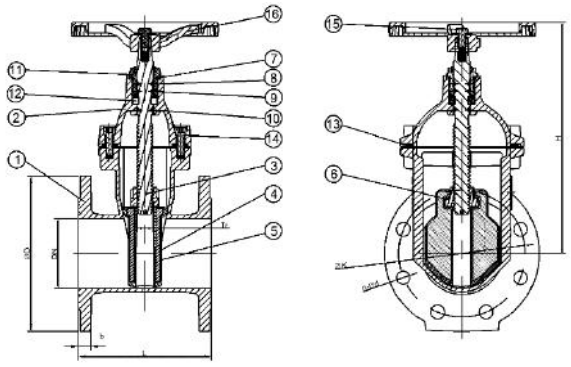


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

● DIN3352-F4 BRASS BUSHING DN40-600 STEM CAP

Table 1. Design Requirement

Standard	DIN 3352
Face to Face	DIN3202-F4
Connection	FlangedEN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension(mm)

DN	L	H	φD		φK		b		n-φd		Tr
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
40	140	190	150		110		19		4-φ19		Tr18×8(P4)LH
50	150	215	165		125		19		4-φ19		Tr18×8(P4)LH
65	170	235	185		145		19		4-φ19		Tr21×8(P4)LH
80	180	265	200		160		19		8-φ19		Tr21×8(P4)LH
100	190	315	220		180		19		8-φ19		Tr24×10(P5)LH
125	200	350	250		210		19		8-φ19		Tr26×10(P5)LH
150	210	385	285		240		19		8-φ23		Tr26×10(P5)LH
200	230	485	340		295		20		8-φ23	12-φ23	Tr32×12(P6)LH
250	250	600	400		350	355	22		12-φ23	12-φ28	Tr34×12(P6)LH
300	270	680	455		400	410	24.5		12-φ23	12-φ28	Tr34×12(P6)LH
350	290	810	505	520	460	470	24.5	26.5	16-φ23	16-φ28	Tr40×12(P6)LH
400	310	890	565	580	515	525	24.5	28	16-φ28	16-φ31	Tr40×12(P6)LH
450	330	1050	615	640	565	585	24.5	30	20-φ28	20-φ31	Tr46×16(P8)LH
500	350	1230	670	715	620	650	26.5	31.5	20-φ28	20-φ34	Tr46×16(P8)LH
600	390	1260	780	840	725	770	30	36	20-φ31	20-φ37	Tr55×18(P9)LH

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Stem	Stainless Steel
	4	Disc	Ductile Iron
	5	Disc Seat	EPDM
	6	Stem Nut	Brass
Sealing	7	Dustproof Ring	EPDM/NBR
	8	O-Ring	
	9	O-Ring	
	10	O-Ring	
	11	Bonnet Bushing	Brass
	12	Thrust Collar	
	13	Gasket	EPDM
Fastener	14	Bolt	Stainless Steel
	15	Bolt and Washer	
Operating Device and Direction	16	Stem Cap with clockwise closed	Ductile Iron

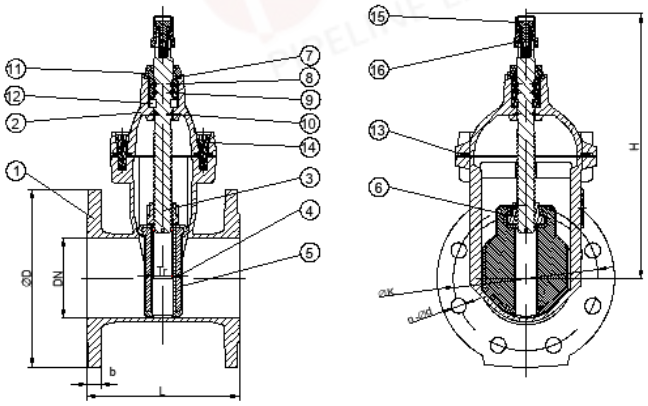


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

● DIN3352-F5 BRASS BUSHING DN40-600 MANUAL HANDWHEEL

Table1. Design Requirement

Standard	DIN 3352
Face to Face	DIN 3202-F5
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension(mm)

DN	L	H	φD		φK		b		n-φd		Tr
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
40	240	190	150		110		19		4-φ19		Tr18×8(P4)LH
50	250	215	165		125		19		4-φ19		Tr18×8(P4)LH
65	270	235	185		145		19		4-φ19		Tr21×8(P4)LH
80	280	265	200		160		19		8-φ19		Tr21×8(P4)LH
100	300	315	220		180		19		8-φ19		Tr24×10(P5)LH
125	325	350	250		210		19		8-φ19		Tr26×10(P5)LH
150	350	385	285		240		19		8-φ23		Tr26×10(P5)LH
200	400	485	340		295		20		8-φ23	12-φ23	Tr32×12(P6)LH
250	450	600	400		350	355	22		12-φ23	12-φ28	Tr34×12(P6)LH
300	500	680	455		400	410	24.5		12-φ23	12-φ28	Tr34×12(P6)LH
350	550	810	505	520	460	470	24.5	26.5	16-φ23	16-φ28	Tr40×12(P6)LH
400	600	890	565	580	515	525	24.5	28	16-φ28	16-φ31	Tr40×12(P6)LH
450	650	1050	615	640	565	585	24.5	30	20-φ28	20-φ31	Tr46×16(P8)LH
500	700	1230	670	715	620	650	26.5	31.5	20-φ28	20-φ34	Tr46×16(P8)LH
600	800	1260	780	840	725	770	30	36	20-φ31	20-φ37	Tr55×18(P9)LH

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Stem	Stainless Steel
	4	Disc	Ductile Iron
	5	Disc Seat	EPDM
	6	Stem Nut	Brass
Sealing	7	Dustproof Ring	EPDM/NBR
	8	O-Ring	
	9	O-Ring	
	10	O-Ring	
	11	Bonnet Bushing	Brass
	12	Thrust Collar	
	13	Gasket	EPDM
Fastener	14	Bolt	Stainless Steel
	15	Bolt and Washer	
Operating Device andDirection	16	Handwheel with clockwise closed	Ductile Iron

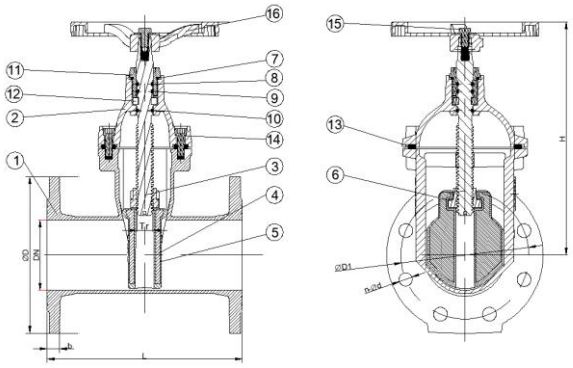


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

● DIN3352-F5 BRASS BUSHING DN40-600 STEM CAP

Table1. Design Requirement

Standard	DIN 3352
Face to Face	DIN 3202-F5
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension(mm)

DN	L	H	φD		φK		b		n-φd		Tr
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
40	240	190	150		110		19		4-φ19		Tr18×8(P4)LH
50	250	215	165		125		19		4-φ19		Tr18×8(P4)LH
65	270	235	185		145		19		4-φ19		Tr21×8(P4)LH
80	280	265	200		160		19		8-φ19		Tr21×8(P4)LH
100	300	315	220		180		19		8-φ19		Tr24×10(P5)LH
125	325	350	250		210		19		8-φ19		Tr26×10(P5)LH
150	350	385	285		240		19		8-φ23		Tr26×10(P5)LH
200	400	485	340		295		20		8-φ23	12-φ23	Tr32×12(P6)LH
250	450	600	400		350	355	22		12-φ23	12-φ28	Tr34×12(P6)LH
300	500	680	455		400	410	24.5		12-φ23	12-φ28	Tr34×12(P6)LH
350	550	810	505	520	460	470	24.5	26.5	16-φ23	16-φ28	Tr40×12(P6)LH
400	600	890	565	580	515	525	24.5	28	16-φ28	16-φ31	Tr40×12(P6)LH
450	650	1050	615	640	565	585	24.5	30	20-φ28	20-φ31	Tr46×16(P8)LH
500	700	1230	670	715	620	650	26.5	31.5	20-φ28	20-φ34	Tr46×16(P8)LH
600	800	1260	780	840	725	770	30	36	20-φ31	20-φ37	Tr55×18(P9)LH

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Stem	Stainless Steel
	4	Disc	Ductile Iron
	5	Disc Seat	EPDM
	6	Stem Nut	Brass
Sealing	7	Dustproof Ring	EPDM/NBR
	8	O-Ring	
	9	O-Ring	
	10	O-Ring	
	11	Bonnet Bushing	Brass
	12	Thrust Collar	
	13	Gasket	EPDM
Fastener	14	Bolt	Stainless Steel
	15	Bolt and Washer	
Operating Deviceand	16	Stem Cap with clockwise closed	Ductile Iron

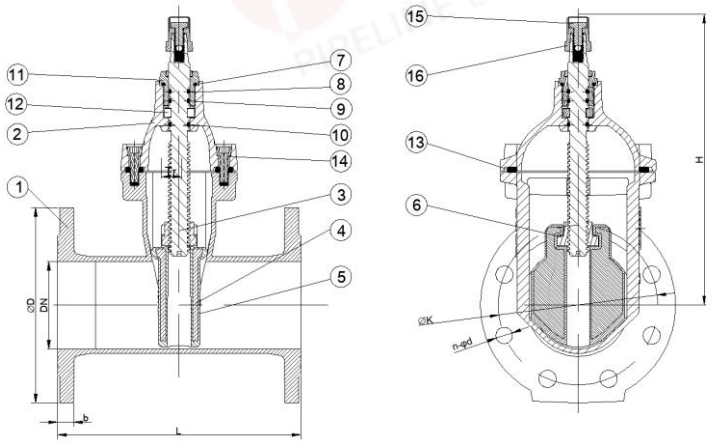


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

BS5163 BRASS BUSHING DN40-600 MANUAL HANDWHEEL

Table1. Design Requirement

Standard	BS 5163
Face to Face	EN 558 Series 3
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension(mm)

DN	L	H	φD		φK		b		n-φd		Tr
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
40	165	190	150		110		19		4-φ19		Tr18×8(P4)LH
50	178	215	165		125		19		4-φ19		Tr18×8(P4)LH
65	190	235	185		145		19		4-φ19		Tr21×8(P4)LH
80	203	265	200		160		19		8-φ19		Tr21×8(P4)LH
100	229	315	220		180		19		8-φ19		Tr24×10(P5)LH
125	254	350	250		210		19		8-φ19		Tr26×10(P5)LH
150	267	385	285		240		19		8-φ23		Tr26×10(P5)LH
200	292	485	340		295		20		8-φ23	12-φ23	Tr32×12(P6)LH
250	330	600	400		350	355	22		12-φ23	12-φ28	Tr34×12(P6)LH
300	356	680	455		400	410	24.5		12-φ23	12-φ28	Tr34×12(P6)LH
350	381	810	505	520	460	470	24.5	26.5	16-φ23	16-φ28	Tr40×12(P6)LH
400	406	890	565	580	515	525	24.5	28	16-φ28	16-φ31	Tr40×12(P6)LH
450	432	1050	615	640	565	585	24.5	30	20-φ28	20-φ31	Tr46×16(P8)LH
500	457	1230	670	715	620	650	26.5	31.5	20-φ28	20-φ34	Tr46×16(P8)LH
600	508	1260	780	840	725	770	30	36	20-φ31	20-φ37	Tr55×18(P9)LH

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Stem	Stainless Steel
	4	Disc	Ductile Iron
	5	Disc Seat	EPDM
	6	Stem Nut	Brass
Sealing	7	Dustproof Ring	EPDM/NBR
	8	O-Ring	
	9	O-Ring	
	10	O-Ring	
	11	Bonnet Bushing	Brass
	12	Thrust Collar	
	13	Gasket	EPDM
Fastener	14	Bolt	Stainless Steel
	15	Bolt and Washer	
Operating Device and Direction	16	Handwheel with clockwise closed	Ductile Iron

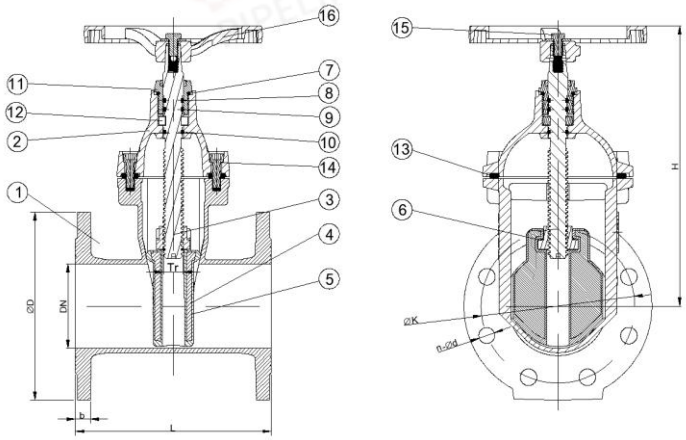


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI NON-RISING STEM(NRS) RESILIENT SEATED GATE VALVE, FLANGED END, DI GLAND DN40-DN600

DIN 3352-F4 GLAND DN40-350 MANUAL HANDWHEEL

Table1. Design Requirement

Standard	DIN 3352
Face to Face	DIN 3202-F4
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension(mm)

DN	L	H	φD		φK		b		n-φd		Tr
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
40	140	210	150		110		19		4-φ19		Tr18×8(P4)LH
50	150	240	165		125		19		4-φ19		Tr18×8(P4)LH
65	170	270	185		145		19		4-φ19		Tr21×8(P4)LH
80	180	290	200		160		19		8-φ19		Tr21×8(P4)LH
100	190	330	220		180		19		8-φ19		Tr24×10(P5)LH
125	200	380	250		210		19		8-φ19		Tr26×10(P5)LH
150	210	420	285		240		19		8-φ23		Tr26×10(P5)LH
200	230	510	340		295		20		8-φ23	12-φ23	Tr32×12(P6)LH
250	250	600	400		350	355	22		12-φ28	12-φ28	Tr34×12(P6)LH
300	270	680	455		400	410	24.5		12-φ28	12-φ28	Tr34×12(P6)LH
350	290	810	505	520	460	470	24.5	26.5	16-φ23	16-φ28	Tr40×12(P6)LH

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
	3	Gland	
Trim	4	Stem	Stainless Steel
	5	Disc	Ductile Iron
	6	Disc Seat	EPDM
	7	Stem Nut	Brass
Sealing	8	O-Ring	EPDM
	9	Gasket	
	10	Thrust Collar	Brass
Fastener	11	Bolt	Stainless steel
	12	Bolt	Stainless Steel
Operating Device and Direction	13	Handwheelwithclockwiseclosed	Ductile Iron

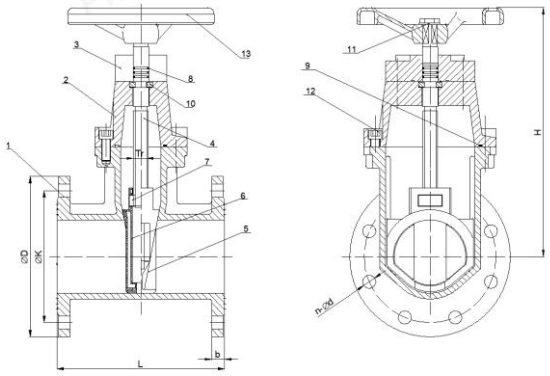


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

● DIN 3352-F4 GLAND DN400-600 MANUAL HANDWHEEL

Table1. Design Requirement

Standard	DIN 3352
Face to Face	DIN 3202-F4
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension(mm)

DN	L	φD		φK		b		n-φd		Tr
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
400	310	565	580	515	525	24.5	28	16-φ28	16-φ31	Tr40×12(P6)LH
450	330	615	640	565	585	24.5	30	20-φ28	20-φ31	Tr46×16(P8)LH
500	350	670	715	620	650	26.5	31.5	20-φ28	20-φ34	Tr46×16(P8)LH
600	390	780	840	725	770	30	36	20-φ31	20-φ37	Tr55×18(P9)LH

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Stem	Stainless Steel
	4	Disc	Ductile Iron
	5	Disc Seat	EPDM
	6	Stem Nut	Brass
Sealing	7	O-Ring	NBR
	8	Gasket	
Operating Device and Direction	9	Handwheel with clockwise closed	Ductile Iron

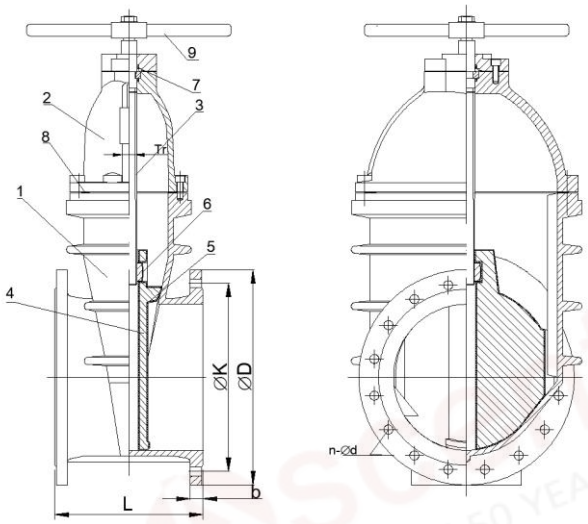


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

● DIN 3352-F5 GLAND DN40-350 MANUAL HANDWHEEL

Table1. Design Requirement

Standard	DIN 3352
Face to Face	DIN 3202-F5
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension(mm)

DN	L	H	φD		φK		b		n-φd		Tr
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN10	
40	240	210	150		110		19		4-φ19		Tr18×8(P4)LH
50	250	240	165		125		19		4-φ19		Tr18×8(P4)LH
65	270	270	185		145		19		4-φ19		Tr21×8(P4)LH
80	280	290	200		160		19		8-φ19		Tr21×8(P4)LH
100	300	330	220		180		19		8-φ19		Tr24×10(P5)LH
125	325	380	250		210		19		8-φ19		Tr26×10(P5)LH
150	350	420	285		240		19		8-φ23		Tr26×10(P5)LH
200	400	510	340		295		20		8-φ23	12-φ23	Tr32×12(P6)LH
250	450	600	400		350	355	22		12-φ23	12-φ28	Tr34×12(P6)LH
300	500	680	455		400	410	24.5		12-φ23	12-φ28	Tr34×12(P6)LH
350	550	810	505	520	460	470	24.5	26.5	16-φ23	16-φ28	Tr40×12(P6)LH

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
	3	Gland	
Trim	4	Stem	Stainless Steel
	5	Disc	Ductile Iron
	6	Disc Seat	EPDM
	7	Stem Nut	Brass
Sealing	8	O-Ring	EPDM
	9	Gasket	
	10	Thrust Collar	Brass
Fastener	11	Bolt	Stainless steel
	12	Bolt	Stainless Steel
Operating Device and Direction	13	Handwheel with clockwise closed	Ductile Iron

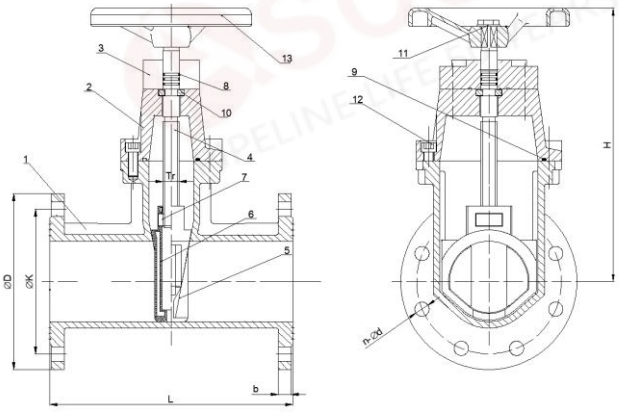


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

- **DIN 3352-F5 GLAND DN400-600 MANUAL HANDWHEEL**

Table1. Design Requirement

Standard	DIN 3352
Face to Face	DIN 3202-F5
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd		Tr
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
400	600	565	580	515	525	24.5	28	16-φ28	16-φ31	Tr40×12(P6)LH
450	650	615	640	565	585	24.5	30	20-φ28	20-φ31	Tr46×16(P8)LH
500	700	670	715	620	650	26.5	31.5	20-φ28	20-φ34	Tr46×16(P8)LH
600	800	780	840	725	770	30	36	20-φ31	20-φ37	Tr55×18(P9)LH

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Stem	Stainless Steel
	4	Disc	Ductile Iron
	5	Disc Seat	EPDM
	6	Stem Nut	Brass
Sealing	7	O-Ring	NBR
	8	Gasket	
Operating Device and Direction	9	Handwheel with clockwise closed	Ductile Iron

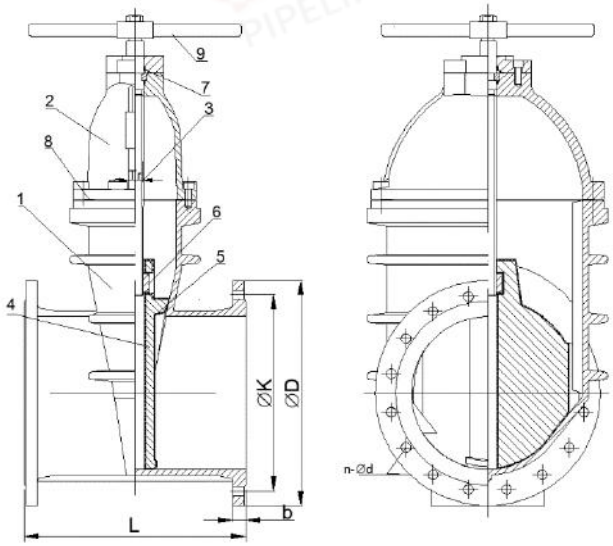


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

- **BS5163 GLAND DN40-300 MANUAL HANDWHEEL**

Table1. Design Requirement

Standard	BS 5163
Face to Face	EN 558 Series 3
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension(mm)

DN	L	H	φD		φK		b		n-φd		Tr
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
40	165	210	150		110		19		4-φ19		Tr18×8(P4)LH
50	178	240	165		125		19		4-φ19		Tr18×8(P4)LH
65	190	270	185		145		19		4-φ19		Tr21×8(P4)LH
80	203	290	200		160		19		8-φ19		Tr21×8(P4)LH
100	229	330	220		180		19		8-φ19		Tr24×10(P5)LH
125	254	380	250		210		19		8-φ19		Tr26×10(P5)LH
150	267	420	285		240		19		8-φ23		Tr26×10(P5)LH
200	292	510	340		295		20		8-φ23	12-φ23	Tr32×12(P6)LH
250	330	600	400		350	355	22		12-φ28	12-φ28	Tr34×12(P6)LH
300	356	680	455		400	410	24.5		12-φ28	12-φ28	Tr34×12(P6)LH

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
	3	Gland	
Trim	4	Stem	Stainless Steel
	5	Disc	Ductile Iron
	6	Disc Seat	EPDM
	7	Stem Nut	Brass
Sealing	8	O-Ring	EPDM
	9	Gasket	
	10	Thrust Collar	Brass
Fastener	11	Bolt	Stainless steel
	12	Bolt	Stainless Steel
Operating Device and Direction	13	Handwheel with clockwise closed	Ductile Iron

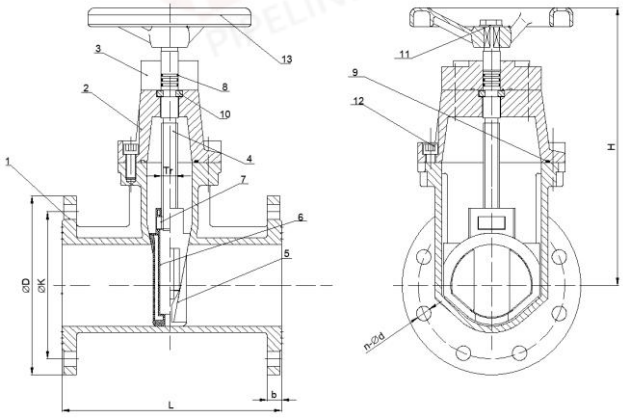


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI NON-RISING STEM(NRS) RESILIENT SEATED GATE VALVE, FLANGED END, DI TOP FLANGE DN40-DN300

Table 1. Design Requirement

Standard	BS 5163
Face to Face	EN 558 Series 3
Connection	FlangedEN 1092-2 PN10/16 Top FlangedISO 5210
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2.1 Dimension (mm)

DN	L	H	φD		φK		b		n-φd		Tr
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
40	165	160	150		110		19		4-φ19		Tr18×8(P4)LH
50	178	160	165		125		19				
65	190	190	185		145		19				Tr21×8(P4)LH
80	203	210	200		160		19		8-φ19		
100	229	250	220		180		19				Tr24×10(P5LH
125	254	290	250		210		19				Tr26×10(P5)LH
150	267	330	285		240		19		8-φ23		
200	292	420	340		295		20		8-φ23	12-φ23	Tr32×12(P6)LH
250	330	515	400		350	355	22		12-φ23	12-φ28	Tr34*12(P6)LH
300	356	595	455		400	410	24.5		12-φ23	12-φ28	

Table 2.2Top FlangeDimension(mm)

DN	d1	d2	k	n-φ	d	h	s	B	c	e	Gland Type
40	125	71	102	4-φ12	φ18	40	35	8	11	23.6	F10
50											
65					φ21				14	26.6	
80											
100					φ24				16	30.6	
125	150	86	125		φ26				18	32.6	F12
150											
200					φ32			10	22	38.6	
250	175	101	140	4-φ14	φ34		40		24	40.6	F14
300						45					

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
	3	Top Flange	
Trim	4	Stem	Stainless Steel
	5	Disc	Ductile Iron
	6	Disc Seat	EPDM
	7	Stem Nut	Brass
Sealing	8	O-Ring	NBR
	9	O-Ring	
	10	O-Ring	
	11	O-Ring	
	12	Gasket	
	13	Thrust Collar	Brass
	14	Thrust Collar	

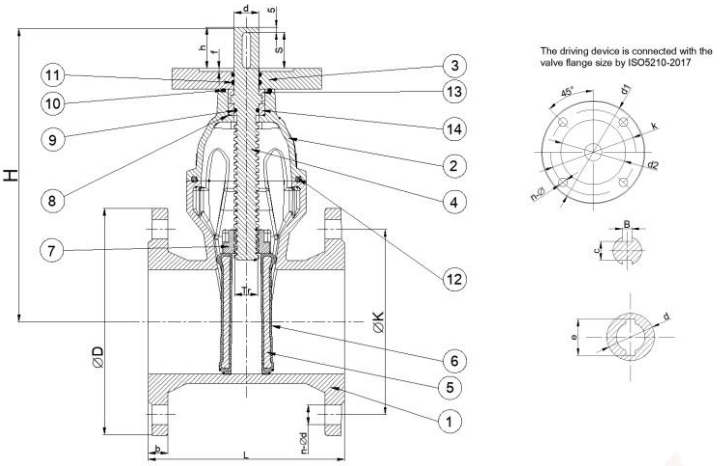


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI NON-RISING STEM(NRS) RESILIENT SEATED GATE VALVE, FLANGED END, DI TOP FLANGE/YOKE DN400-DN1000

- **DIN3352-F4 MANUAL GEARBOX**

Table 1. Design Requirement

Standard	DIN 3352
Face to Face	DIN3202-F4
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	H	φD		φK		b		n-φd		Tr
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
400	310	1150	565	580	515	525	24.5	28	16-φ28	16-φ31	Tr40×12(P6)LH
450	330	1230	615	640	565	585	24.5	30	20-φ28	20-φ31	Tr46×16(P8)LH
500	350	1230	670	715	620	650	26.5	31.5	20-φ28	20-φ34	Tr46×16(P8)LH
600	390	1260	780	840	725	770	30	36	20-φ31	20-φ37	Tr55×18(P9)LH
700	430	2130	895	910	840	840	32.5	39.5	24-φ31	24-φ37	-
800	470	2130	1015	1025	950	950	35	43	24-φ34	24-φ40	-
900	510	2350	1115	1125	1050	1050	37.5	46.5	28-φ34	28-φ40	-
1000	550	2350	1230	1255	1160	1170	40	50	28-φ37	28-φ43	-

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
	3	Yoke	
Trim	4	Stem	Stainless Steel
	5	Disc	Ductile Iron
	6	Disc Seat	EPDM
	7	Stem Nut	Brass
Sealing	8	Gasket	EPDM
	9	O-Ring	
	10	Sealing Ring	
	11	Thrust Collar	Brass
Fastener	12	Bolt	Stainless Steel
Operating Device andDirection	13	Gearbox with clockwise closed	Component

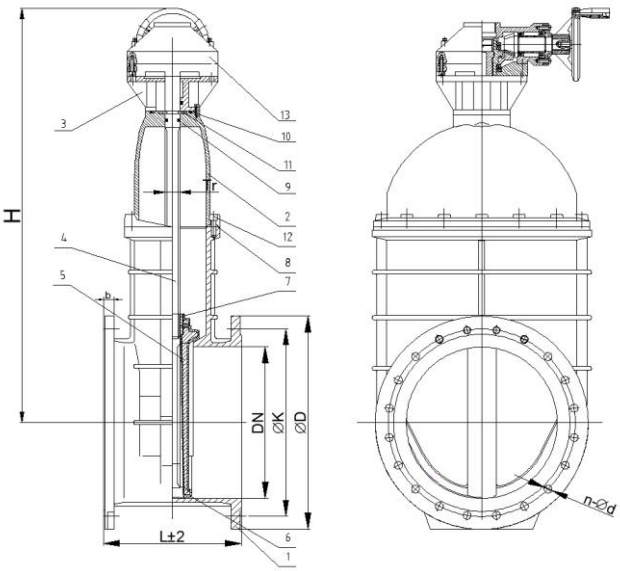


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

- **DIN3352-F5 MANUAL GEARBOX**

Table 1. Design Requirement

Standard	DIN 3352
Face to Face	DIN3202-F5
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	H	φD		φK		b		n-φd		Tr
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
400	600	1150	565	580	515	525	24.5	28	16-φ28	16-φ31	Tr40×12(P6)LH
450	650	1230	615	640	565	585	24.5	30	20-φ28	20-φ31	Tr46×16(P8)LH
500	700	1230	570	715	620	650	26.5	31.5	20-φ28	20-φ34	Tr46×16(P8)LH
600	800	1260	780	840	725	770	30	36	20-φ31	20-φ37	Tr55×18(P9)LH
700	900	2130	895	910	840	840	32.5	39.5	24-φ31	24-φ37	-
800	1000	2130	1015	1025	950	950	35	43	24-φ34	24-φ40	-
900	1100	2350	1115	1125	1050	1050	37.5	46.5	28-φ34	28-φ40	-
1000	1200	2350	1230	1255	1160	1170	40	50	28-φ37	28-φ43	-

Table 3. Component

Classify	NO.	Name	Material

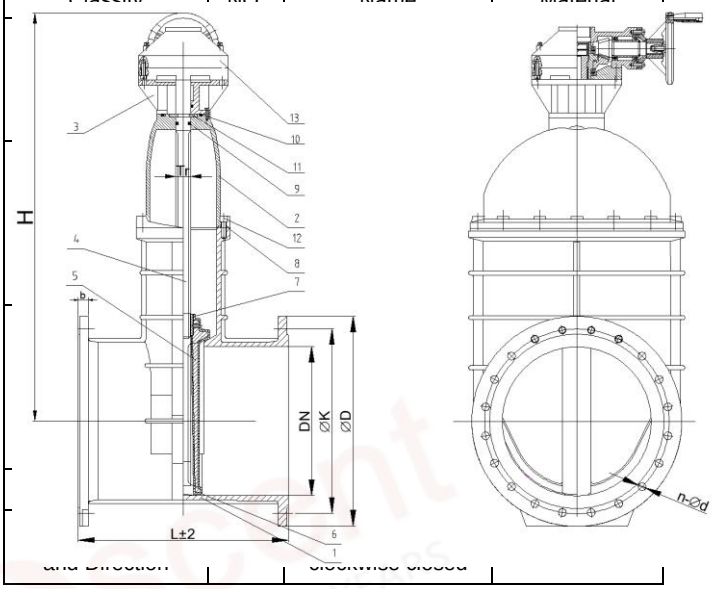


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005












DI NON-RISING STEM(NRS) RESILIENT SEATED GATE VALVE, SOCKET END for PVC/PE PIPE, BRASS BUSHING, DN50/OD63-DN300/OD315

- **EN 1171BRASS BUSHING SOCKET DN50-300 MANUAL HANDWHEEL**

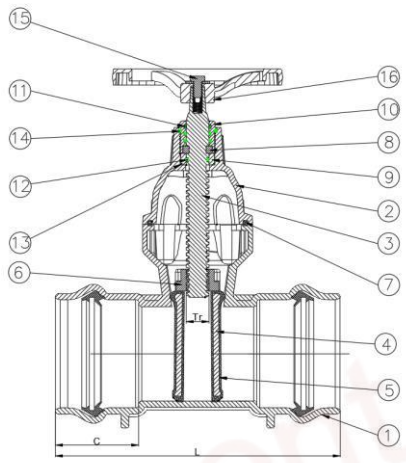
Table 1. Design Requirement

Standard	EN 1171
Face to Face	EN 558 Series 15
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

OD	L	C	Tr
63	250	77	Tr18×8(P4)LH
75	270	80	Tr21×8(P4)LH
85/90	280	84	Tr21×8(P4)LH
110	300	88	Tr24×10(P5)LH
140	325	91	Tr26×10(P5)LH
160	350	94	Tr26×10(P5)LH
200	400	100	Tr32×12(P6)LH
225/250	450	125	Tr34×12(P6)LH
315	500	140	Tr34×12(P6)LH

Table 3. Component

Classify	NO.	Name	Material
		Body	Ductile Iron
		Bonnet	
		Stem	Stainless
		Disc	Ductile Iron
		Disc Seat	EPDM
		Stem Nut	Brass
		Gasket	NBR
		Thrust Collar	Brass
		Stem Sleeve	
		Bonnet Bushing	
		O-Ring	NBR
		O-Ring	
		O-Ring	
		Dustproof Ring	
Fastener	15	Bolt and Washer	Stainless
Operating Deviceand Direction	16	Handwheel with clockwise closed	Ductile Iron

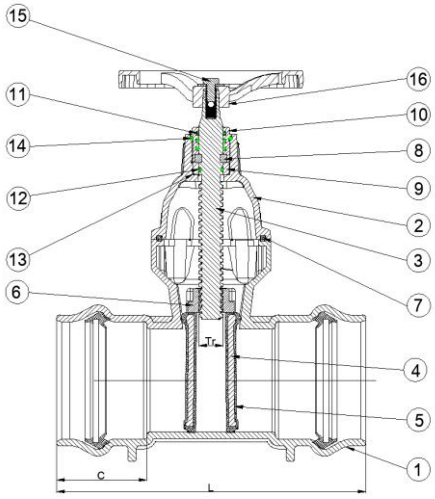


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

- **EN 1171 BRASS BUSHING SOCKET DN50-300 STEM CAP**

Table 1. Design Requirement

Standard	EN 1171
Face to Face	EN 558 Series 15
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

OD	L	C	Tr
63	250	77	Tr18×8(P4)LH
75	270	80	Tr21×8(P4)LH
85/90	280	84	Tr21×8(P4)LH
110	300	88	Tr24×10(P5)LH
140	325	91	Tr26×10(P5)LH
160	350	94	Tr26×10(P5)LH
200	400	100	Tr32×12(P6)LH
225/250	450	125	Tr34×12(P6)LH
315	500	140	Tr34×12(P6)LH

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Stem	Stainless Steel
	4	Disc	Ductile Iron
	5	Disc Seat	EPDM
	6	Stem Nut	Brass
Sealing	7	Gasket	NBR
	8	Thrust Collar	Brass
	9	Wearing Ring	
	10	Bonnet Bushing	
	11	O-Ring	NBR
	12	O-Ring	
	13	O-Ring	
	14	Dustproof Ring	
Fastener	15	Bolt and Washer	Stainless Steel
Operating Device andDirection	16	Stem Cap with clockwise closed	Ductile Iron

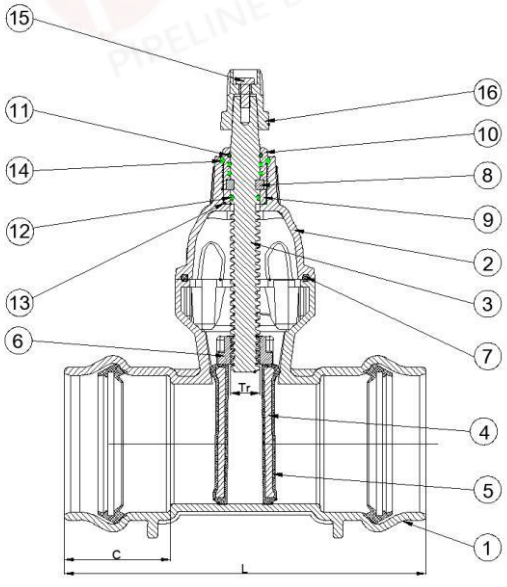


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI NON-RISING STEM(NRS) RESILIENT SEATED GATE VALVE (SERVICE GATE VALVE), THREADED END, BRASS BUSHING, DN20-DN50

● DIN3352 BRASS BUSHING DN20、25、32

Table 1. Design Requirement

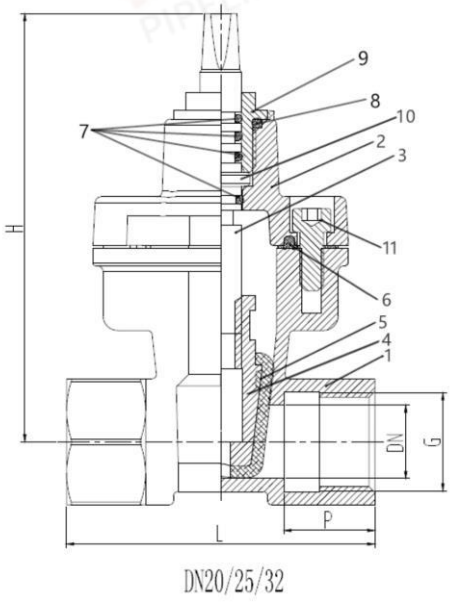
Standard	DIN 3352
Connection	ThreadedISO 228-1
Testing	EN12266
Working Pressure	1.6MPa
Shell Pressure	2.4MPa
Internal Pressure	1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	G	L	H	P
20	3/4"	95	145	27
25	1"	105	145	30
32	1 1/4"	120	150	32

Table 3. Component

Classify	No.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Stem	Stainless Steel
	4	Disc	Brass
	5	Disc Seat	EPDM
Sealing	6	Gasket	NBR
	7	O-Ring	
	8	Dustproof Ring	
	9	Bonnet Bushing	Brass
	10	Thrust Collar	Integral with Stem
Fastener	11	Bolts	Stainless Steel



DN20/25/32

Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

● DIN3352 BRASS BUSHING DN40、50

Table 1. Design Requirement

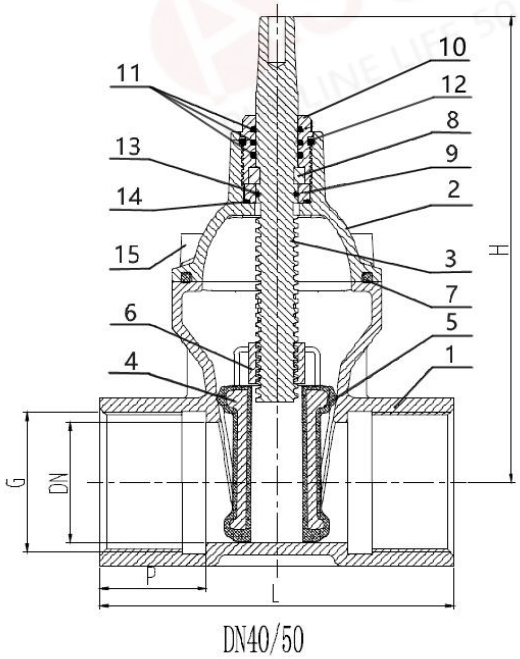
Standard	DIN 3352
Connection	ThreadedISO 228-1
Testing	EN12266
Working Pressure	1.6MPa
Shell Pressure	2.4MPa
Internal Pressure	1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70C

Table 2. Dimension (mm)

DN	G	L	H	P
40	1 1/2"	130	202	37
50	2"	150	197	45

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Stem	Stainless Steel
	4	Disc	Ductile Iron
	5	Disc Seat	EPDM
	6	Stem Nut	Brass
Sealing	7	Gasket	NBR
	8	Thrust Collar	Brass
	9	Wearing Ring	
	10	Bonnet Bushing	
	11	O-Ring	NBR
	12	Dustproof Ring	
	13	O-Ring	
	14	O-Ring	
Fastener	15	Bolts	Stainless Steel



DN40/50

Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI KNIFE GATE VALVE WITH MANUAL HANDWHEELDN50-1000

● MANUAL HANDWHEEL DN50-450

Table 1. Design Requirement

Connection	Flanged EN1092-2 PN10
Testing	EN12266
Working Pressure	1.0MPa
Shell Pressure	1.5MPa
Internal Pressure	1.1MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	L	H	ΦK	N-M	N-φd
50	48	260	165	2-M16	2-φ18
65	48	292	185	2-M16	2-φ18
80	51	320	200	6-M16	2-φ18
100	51	358	220	6-M16	2-φ18
125	57	395	250	6-M16	2-φ18
150	57	450	285	6-M20	2-φ23
175	57	504	305	6-M20	2-φ23
200	70	532	340	8-M20	4-φ23
250	70	670	395	8-M20	4-φ23
300	76	758	445	8-M20	4-φ23
350	76	857	505	8-M20	8-φ23
400	89	946	565	6-M24	10-φ27
450	89	1023	615	8-M24	12-φ27

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Gland	
	3	Yoke	
Trim	4	Stem	2Cr13
	5	Disc	SS304
	6	Stem Nut	Brass
Sealing	7	Sealing Ring	EPDM
	8	Bushing	Carbon Steel
	9	Packing	PTFE
	10	Bearing	Carbon Steel
Fastener	11	Bolt and Washer	Carbon Steel
	12	Bolt and Washer	
Operating Device and Direction	13	Handwheel with clockwise closed	Ductile Iron

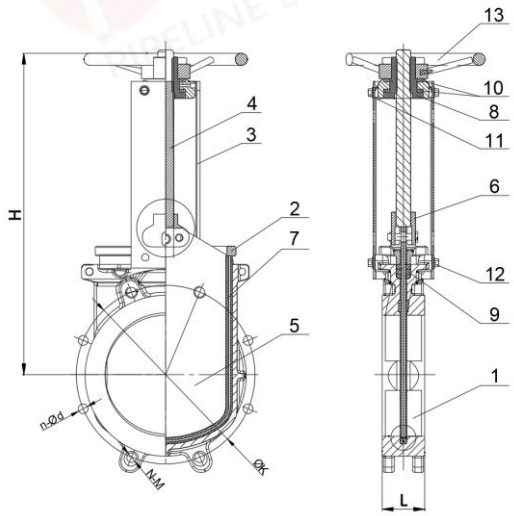


Table 4

Name	Coating
Body	Fusion Bonded Epoxy（≥300um-EN14901)，color-RAL5005
Gland	
Yoke	
Handwheel	

● MANUAL GEARBOX DN500-1000

Table 1. Design Requirement

Connection	Flanged EN1092-2 PN10
Testing	EN12266
Working Pressure	1.0MPa
Shell Pressure	1.5MPa
Internal Pressure	1.1MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	L	ΦK	N-M	N-φd
500	114	670	8-M24	12-φ27
550	114	725	8-M27	12-φ30
600	114	780	8-M27	12-φ30
700	127	895	8-M27	16-φ30
800	127	1015	6-M30	18-φ33
900	127	1115	8-M30	20-φ33
1000	149	1230	8-M33	20-φ36

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Gland	
	3	Yoke	
Trim	4	Stem	2Cr13
	5	Disc	SS304
	6	Stem Nut	Brass
Sealing	7	Sealing Ring	EPDM
	8	Bushing	Carbon Steel
	9	Packing	PTFE
	10	Bearing	Carbon Steel
Fastener	11	Bolt and Washer	Carbon Steel
	12	Bolt and Washer	
Operating Device and Direction	13	Gearbox with clockwise closed	Component

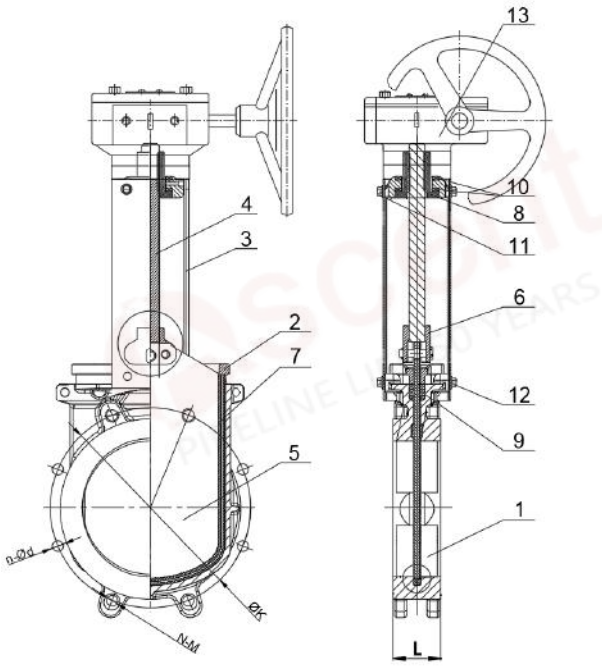
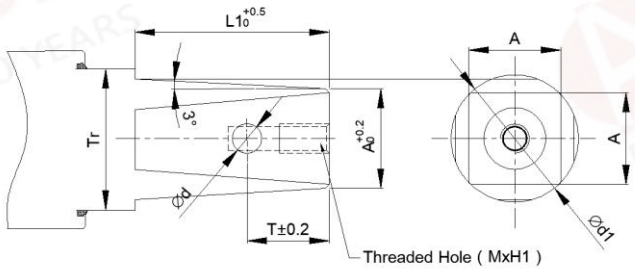
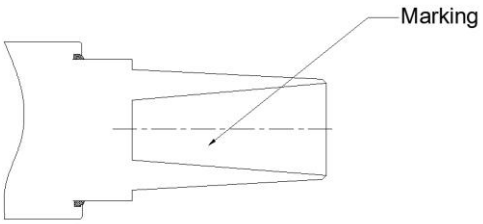


Table 4

Name	Coating
Body	Fusion Bonded Epoxy（≥300um-EN14901)，color-RAL5005
Gland	
Yoke	

DI NON-RISING STEM(NRS) RESILIENT SEATED GATE VALVE, BARE DIMENSION DN50-DN600





Code	DN	A	T	L1	φd	Φd1	Tr	MxH1
SQ14	50	14	12	29	4.5	16	Tr18×8(P4)LH	M8x20
SQ17	65	17	14	33	5	19	Tr21×8(P4)LH	M10x20
	80						Tr21×8(P4)LH	
SQ19	100	19	15	38		22	Tr24×10(P5)LH	
	125					24	Tr26×10(P5)LH	
	150						Tr26×10(P5)LH	
SQ24	200	24	15.5	42	6	30	Tr32×12(P6)LH	
SQ27	250	27	18.5	47		31	Tr34×12(P6)LH	M12x25
	300						Tr34×12(P6)LH	
	400					37	Tr40×12(P6)LH	
SQ32	500	32				43	Tr46×16(P8)LH	
	600					52	Tr55×18(P9)LH	

DI DOUBLE FLANGE DOUBLE ECCENTRIC RESILIENT/SOFT SEATED BUTTERFLY VALVE DN100-DN2000

EN558 SERIES 13 DN100-500

Table 1. Design Requirement

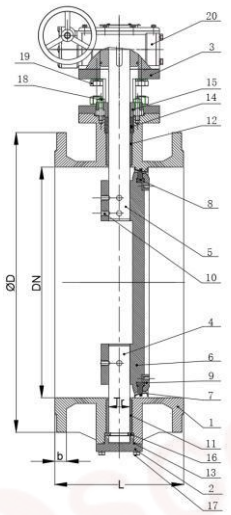
Standard	EN593
Face to Face	EN558 Series 13
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

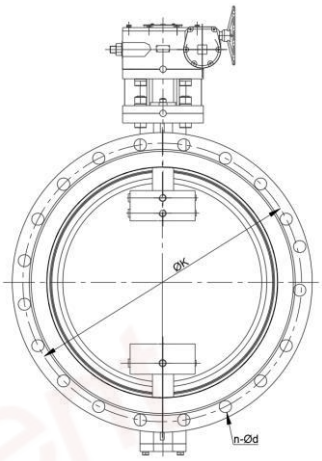
Table 2. Dimension (mm)

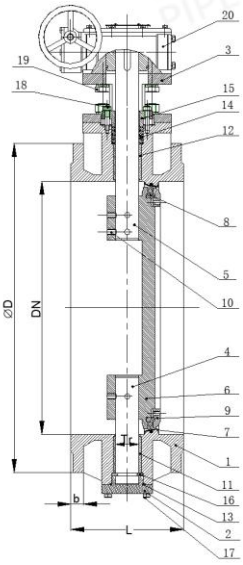
DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
100	127	220		180		19		8-φ19	
125	140	250		210				8-φ19	
150	140	285		240				8-φ23	
200	152	340		295		20		8-φ23	12-φ23
250	165	400		350	355	22		12-φ23	12-φ28
300	178	455		400	410	24.5		12-φ23	12-φ28
350	190	505	520	460	470	24.5	26.5	16-φ23	16-φ28
400	216	565	580	515	525		28	16-φ28	16-φ31
450	222	615	640	565	585		30	20-φ28	20-φ31
500	229	670	715	620	650	26.5	31.5	20-φ28	20-φ34

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
	3	Yoke	
	4	Shaft	ainless Steel
			Ductile Iron
			ainless Steel
			EPDM
			ainless Steel
			ainless Steel
			Brass
			EPDM
			Ductile Iron
		Thrust Collar	
Fastener	17	Bolt and Washer	Stainless Steel
	18	Bolt and Washer	
	19	Bolt and Washer	
Operating Device and Direction	20	Gearbox with clockwiseclosed	Component







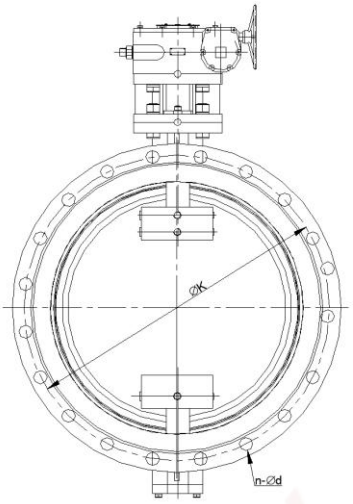


Table 4

	Coating
Body	Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005
Disc	

● EN558 SERIES 13 DN600-1200

Table 1. Design Requirement

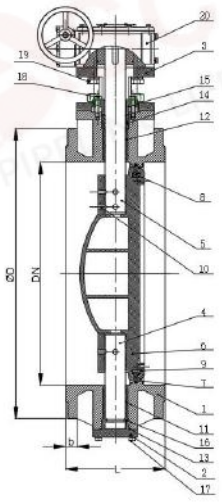
Standard	EN593
Face to Face	EN558 Series 13
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

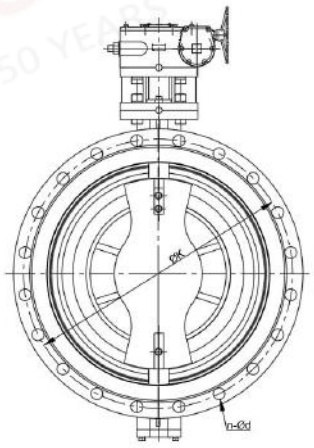
Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
600	267	780	840	725	770	30	36	20-φ31	20-φ37
700	292	895	910	840	840	32.5	39.5	24-φ31	24-φ37
800	318	1015	1025	950	950	35	43	24-φ34	24-φ40
900	330	1115	1125	1050	1050	37.5	46.5	28-φ34	28-φ40
1000	410	1230	1255	1160	1170	40	50	28-φ37	28-φ43
1200	470	1455	1485	1380	1390	45	57	32-φ40	32-φ49

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
	3	Yoke	
	4	Shaft	ıless Steel
			ctile Iron
			ıless Steel
			EPDM
			ıless Steel
			ıless Steel
			Brass
			EPDM
			ctile Iron
	16	Thrust Collar	Stainless Steel
Fastener	17	Bolt and Washer	
	18	Bolt and Washer	
	19	Bolt and Washer	
Operating Device and Direction	20	Gearbox with clockwise closed	Component





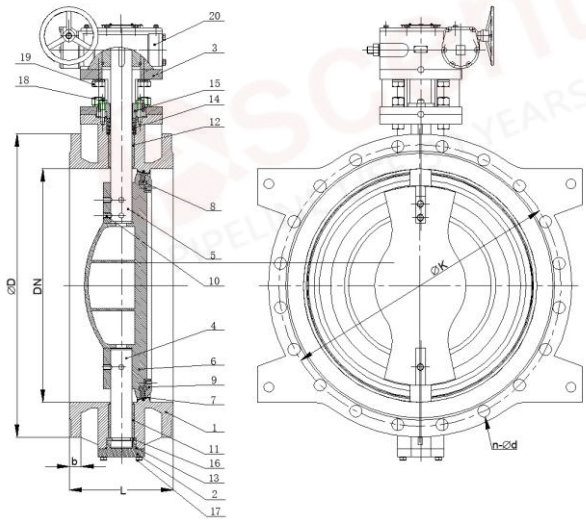


Table 4

Coating	
Body	Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005
Disc	

- **EN558 SERIES 13 DN1400-2000**

Table 1. Design Requirement

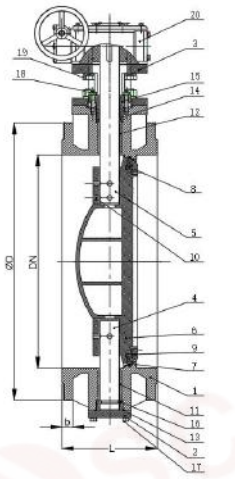
Standard	EN593
Face to Face	EN558 Series 13
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

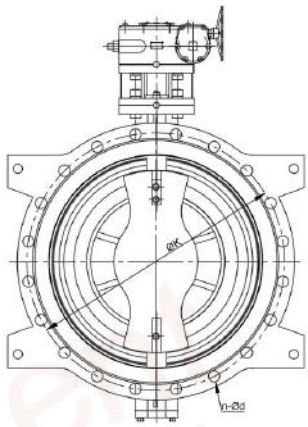
Table 2. Dimension (mm)

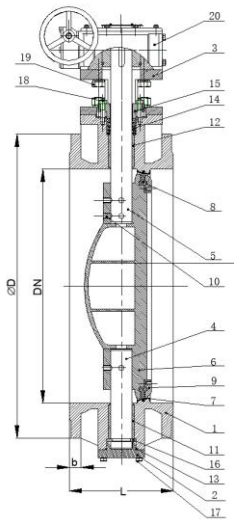
DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
1400	530	1675	1685	1590		46	60	36-φ43	36-φ49
1600	600	1915	1930	1820		49	65	40-φ49	40-φ56
1800	670	2115	2130	2020		52	70	44-φ49	44-φ56
2000	760	2325	2345	2230		55	75	48-φ49	48-φ62

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
	3	Yoke	
	4	Shaft	Stainless Steel
	5	Shaft	
	6	Disc	Ductile Iron
	7	Seat	Stainless Steel
	8	Seat Retainer	EPDM
	9	Seat Ring	Stainless Steel
	10	Bushing	Stainless Steel
	11	Bushing	Brass
	12	Thrust Washer	EPDM
	13	Thrust Washer	Ductile Iron
Fastener	17	Bolt and Washer	Stainless Steel
	18	Bolt and Washer	
	19	Bolt and Washer	
Operating Device and Direction	20	Gearbox with clockwise closed	Component







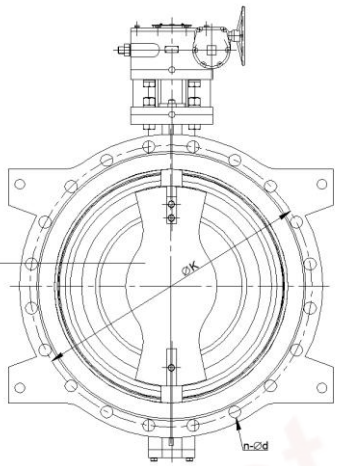


Table 4

Coating	
Body	Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005
Disc	

● EN558 SERIES 14 DN100-500

Table 1. Design Requirement

Standard	EN593
Face to Face	EN558 Series 14
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
100	190	220		180		19		8-φ19	
125	200	250		210				8-φ19	
150	210	285		240				8-φ23	
200	230	340		295		20		8-φ23	12-φ23
250	250	400		350	355	22		12-φ23	12-φ28
300	270	455		400	410	24.5		12-φ23	12-φ28
350	290	505	520	460	470	24.5	26.5	16-φ23	16-φ28
400	310	565	580	515	525		28	16-φ28	16-φ31
450	330	615	640	565	585		30	20-φ28	20-φ31
500	350	670	715	620	650	26.5	31.5	20-φ28	20-φ34

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
	3	Yoke	
Trim	4	Shaft	Stainless Steel
	5	Shaft	
	6	Disc	Ductile Iron
	7	Body Seat	Stainless Steel
	8	Disc Seat	EPDM
	9	Retaining Ring	Stainless Steel
	10	Pin	Stainless Steel
Sealing	11	Shaft Sleeve	Brass
	12	Shaft Sleeve	
	13	O-Ring	EPDM
	14	O-Ring	
	15	Gland	Ductile Iron
	16	Thrust Collar	Stainless Steel
Fastener	17	Bolt and Washer	
	18	Bolt and Washer	
	19	Bolt and Washer	
Operating Device and Direction	20	Gearbox with clockwise closed	Component

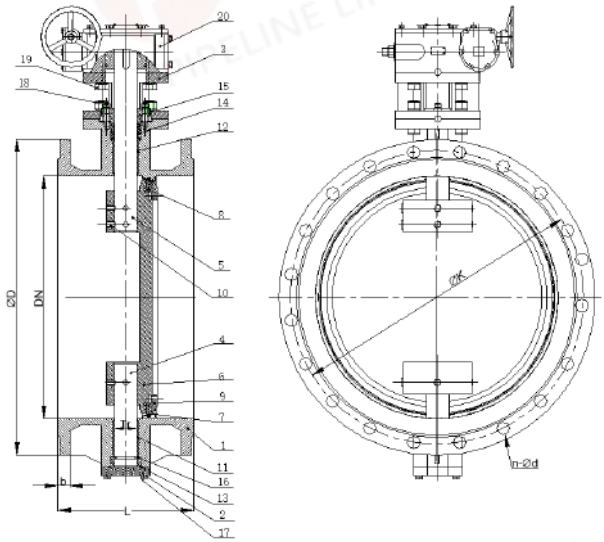


Table 4

	Coating
Body	Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005
Disc	

● EN558 SERIES 14 DN600-1200

Table 1. Design Requirement

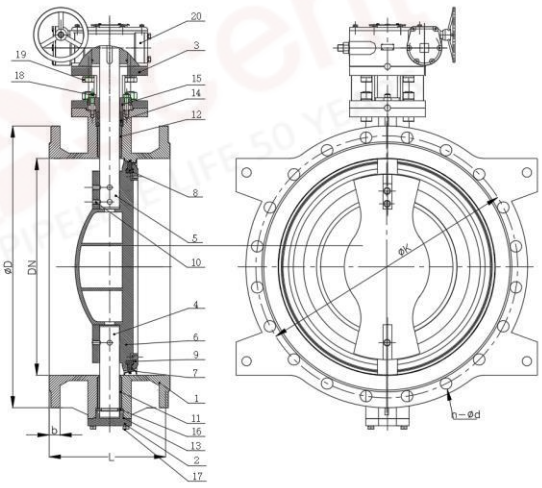
Standard	EN593
Face to Face	EN558 Series 14
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
600	390	780	840	725	770	30	36	20-φ31	20-φ37
700	430	895	910	840	840	32.5	39.5	24-φ31	24-φ37
800	470	1015	1025	950	950	35	43	24-φ34	24-φ40
900	510	1115	1125	1050	1050	37.5	46.5	28-φ34	28-φ40
1000	550	1230	1255	1160	1170	40	50	28-φ37	28-φ43
1200	630	1455	1485	1380	1390	45	57	32-φ40	32-φ49

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
	3	Yoke	
	4	Shaft	tainless Steel
			Ductile Iron
			tainless Steel
			EPDM
			tainless Steel
			tainless Steel
			Brass
			EPDM
			Ductile Iron
	16	Thrust Collar	Stainless Steel
Fastener	17	Bolt and Washer	
	18	Bolt and Washer	
	19	Bolt and Washer	
Operating Device and Direction	20	Gearbox with clockwise closed	Component



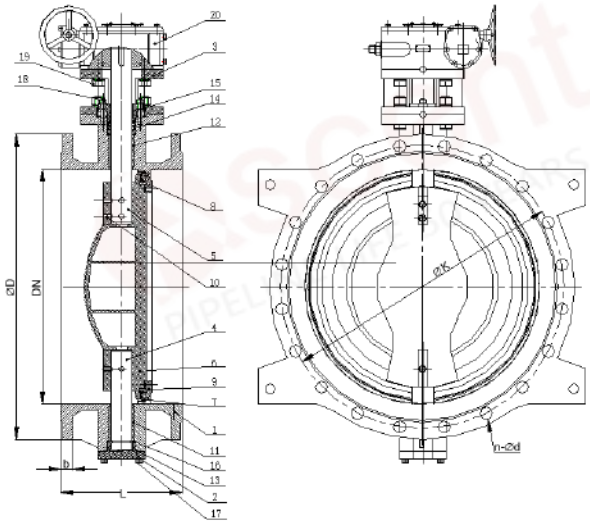


Table 4

Coating	
Body	Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005
Disc	

- **EN558 SERIES 14 DN1400-2000**

Table 1. Design Requirement

Standard	EN593
Face to Face	EN558 Series 14
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
1400	710	1675	1685	1590		46	60	36-φ43	36-φ49
1600	790	1915	1930	1820		49	65	40-φ49	40-φ56
1800	870	2115	2130	2020		52	70	44-φ49	44-φ56
2000	950	2325	2345	2230		55	75	48-φ49	48-φ62

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
	3	Yoke	
Trim	4	Shaft	Stainless Steel
	5	Shaft	
	6	Disc	Ductile Iron
	7	Body Seat	Stainless Steel
	8	Disc Seat	EPDM
	9	Retaining Ring	Stainless Steel
	10	Pin	Stainless Steel
Sealing	11	Shaft Sleeve	Brass
	12	Shaft Sleeve	
	13	O-Ring	EPDM
	14	O-Ring	
	15	Gland	Ductile Iron
	16	Thrust Collar	Stainless Steel
Fastener	17	Bolt and Washer	
	18	Bolt and Washer	
	19	Bolt and Washer	
Operating Device and Direction	20	Gearbox with clockwise closed	Component

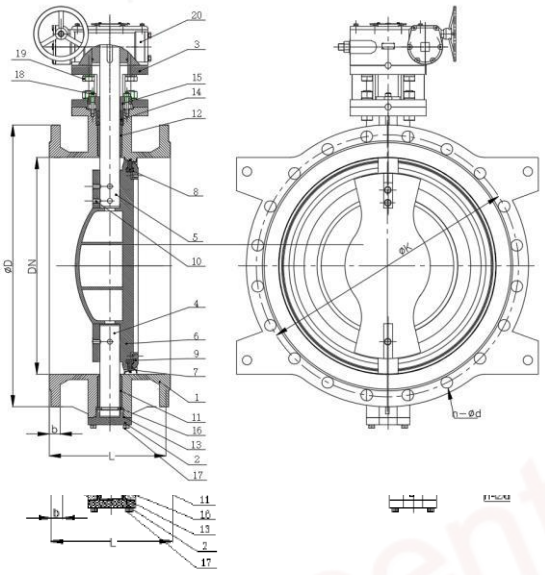


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI DOUBLE FLANGE CONCENTRIC RESILIENT/SOFT SEATED BUTTERFLY VALVE DN50-DN1200

- **EN558 SERIES 13 DN50-1200**

Table 1. Design Requirement

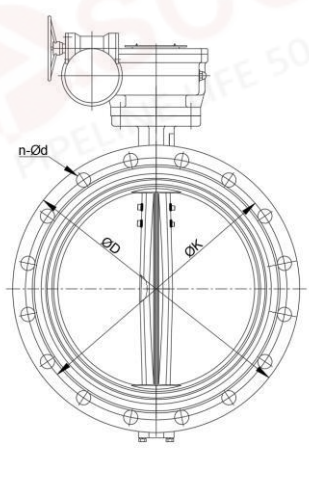
Standard	EN593
Face to Face	EN558 Series 13
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

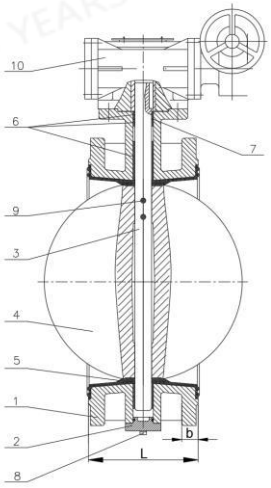
Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	108	165		125		19		4-φ19	
65	112	185		145				4-φ19	
80	114	200		160				8-φ19	
100	127	220		180				8-φ19	
125	140	250		210				8-φ19	
150	140	285		240				8-φ23	
200	152	340		295		20		8-φ23	12-φ23
250	165	400		350	355	22		12-φ23	12-φ28
300	178	455		400	410	24.5	24.5	12-φ23	12-φ28
350	190	505	520	460	470		26.5	16-φ23	16-φ28
400	216	565	580	515	525		28	16-φ28	16-φ31
450	222	615	640	565	585		30	20-φ28	20-φ31
500	229	670	715	620	650	26.4	31.5	20-φ28	20-φ34
600	267	780	840	725	770	30	36	20-φ31	20-φ37
700	292	895	910	840	840	32.5	39.5	24-φ31	24-φ37
800	318	1015	1025	950	950	35	43	24-φ34	24-φ40
900	330	1115	1125	1050	1050	37.5	46.5	28-φ34	28-φ40
1000	410	1230	1255	1160	1170	40	50	28-φ37	28-φ43
1200	470	1455	1485	1380	1390	45	57	32-φ40	32-φ49

Table 3. Component

Classify	NO.	Name	Material
			e Iron
			ss Steel
			e Iron
			DM
			FE
			3R
			ss Steel
			onent
Direction			





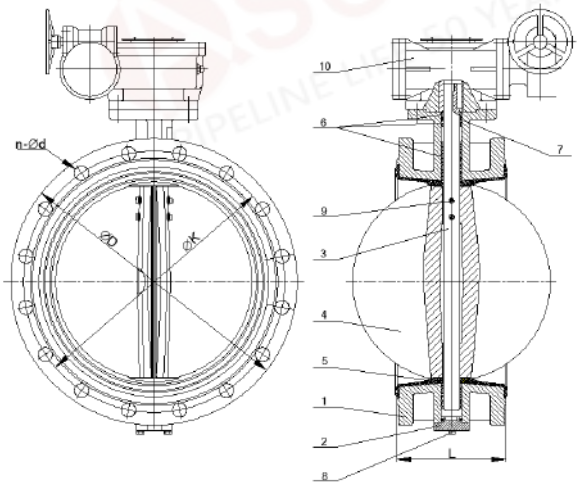


Table 4

	Coating
Body	Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005
Disc	Nickel Plating

● EN558 SERIES 14DN50-1200

Table 1. Design Requirement

Standard	EN593
Face to Face	EN558 Series 14
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	150	165		125		19		4-φ19	
65	170	185		145				4-φ19	
80	180	200		160				8-φ19	
100	190	220		180				8-φ19	
125	200	250		210				8-φ19	
150	210	285		240				8-φ23	
200	230	340		295		20		8-φ23	12-φ23
250	250	400		350	355	22		12-φ23	12-φ28
300	270	455		400	410	24.5	24.5	12-φ23	12-φ28
350	290	505	520	460	470		26.5	16-φ23	16-φ28
400	310	565	580	515	525		28	16-φ28	16-φ31
450	330	615	640	565	585		30	20-φ28	20-φ31
500	350	670	715	620	650	26.4	31.5	20-φ28	20-φ34
600	390	780	840	725	770	30	36	20-φ31	20-φ37
700	430	895	910	840	840	32.5	39.5	24-φ31	24-φ37
800	470	1015	1025	950	950	35	43	24-φ34	24-φ40
900	510	1115	1125	1050	1050	37.5	46.5	28-φ34	28-φ40
1000	550	1230	1255	1160	1170	40	50	28-φ37	28-φ43
1200	630	1455	1485	1380	1390	45	57	32-φ40	32-φ49

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
Trim	3	Shaft	Stainless Steel
	4	Disc	Ductile Iron
	5	Body Seat	EPDM
Sealing	6	Shaft Sleeve	PTFE
	7	O-Ring	NBR
Fastener	8	Bolt	Stainless Steel
	9	Pin	
Operating Device And Direction	10	Gearbox with clockwise closed	Component

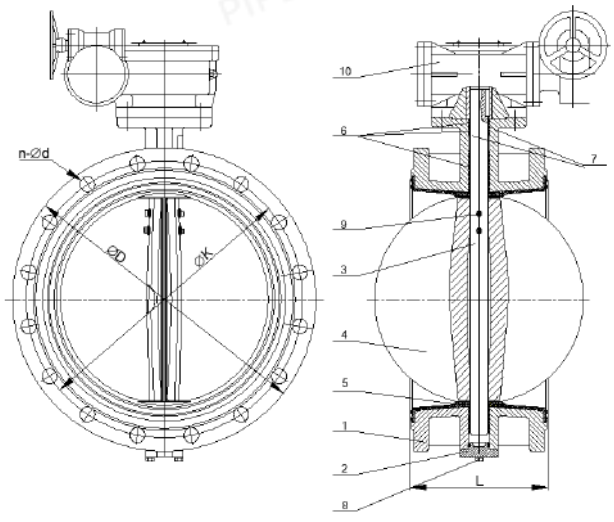


Table 4

Coating	
Body	Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005
Disc	Nickel Plating

DI CENTRAL SINGLE FLANGE CONCENTRIC RESILIENT/SOFT SEATED BUTTERFLY VALVE DN500,DN1000

Table 1. Design Requirement

Standard	EN593
Face to Face	EN558 Series 20
Connection	Flanged EN1092-2 PN10
Testing	EN 12266
Working Pressure	1.0MPa
Shell Pressure	1.5MPa
Internal Pressure	1.1MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	L	φD	φK	n-φd
500	130	670	620	20 -φ28
1000	216	1230	1160	28-φ37

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
Trim	3	Shaft	Stainless Steel
	4	Disc	Ductile Iron
	5	Body Seat	EPDM
Sealing	6	Shaft Sleeve	PTFE
	7	O-Ring	EPDM
Fastener	8	Bolt	Stainless Steel
	9	Pin	
Operating Device and Direction	10	Gearbox with clockwise closed	Component

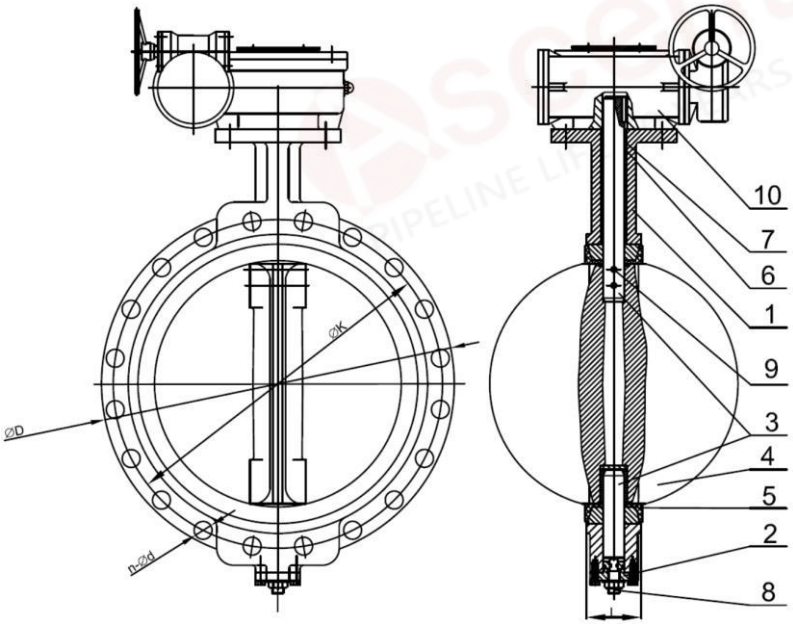


Table 4

Coating	
Body	Fusion Bonded Epoxy (≥300μm), color-RAL5005
Disc	Nickel Plating

DI LUG RESILIENT SEATED BUTTERFLY VALVE, THREADED HOLE, DN40-DN300

● MANUAL LEVER DN40-300

Table 1. Design Requirement

Standard	EN593
Face to Face	EN558 Series 20
Connection	Flanged EN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	L	H	φD	φK	n-φd	K	E	c	N-M	Tr
40	33	28	110	-	4-φ19	90	70	3	4-M16	12.7
50	43	28	125	52.9		90	70	3		
65	46	28	145	64.5		90	70	3		
80	46	28	160	78.8		90	70	3	8-M16	
100	52	32	180	104		90	70	3		15.8
125	56	32	210	123.3		90	70	3		19.05
150	56	32	240	155.1	4-φ23	90	70	3	8-M20	
200	60	-	295	202.5		125	102	3		22.2
250	68	-	355	250.5		125	102	3	12-M20	28.6
300	78	-	410	301.6		125	102	3	16-M20	31.8

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
Trim	2	Shaft	Stainless Steel
	3	Disc	
	4	Body Seat	PTFE
	5	Pin	Stainless Steel
Sealing	6	Shaft Sleeve	PTFE
	7	O-Ring	NBR
Operating Device and Direction	8	Lever with clockwise closed	Carbon Steel

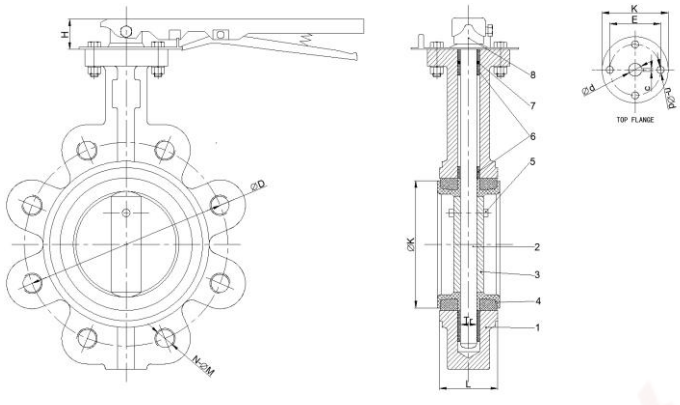


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

- **MANUAL GEARBOX(WORE GEAR) DN40-300**

Table 1. Design Requirement

Standard	EN593
Face to Face	EN558 Series 20
Connection	Flanged EN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	L	H	φD	φK	n-φd	K	E	c	N-M	Tr
40	33	28	110	-	4-φ19	90	70	3	4-M16	12.7
50	43	28	125	52.9		90	70	3		
65	46	28	145	64.5		90	70	3		
80	46	28	160	78.8		90	70	3	8-M16	
100	52	32	180	104		90	70	3		15.8
125	56	32	210	123.3		90	70	3		19.05
150	56	32	240	155.1	4-φ23	90	70	3	8-M20	
200	60	-	295	202.5		125	102	3		22.2
250	68	-	355	250.5		125	102	3	12-M20	28.6
300	78	-	410	301.6		125	102	3	16-M20	31.8

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
Trim	2	Shaft	Stainless Steel
	3	Disc	
	4	Body Seat	PTFE
Sealing	5	Shaft Sleeve	
	6	O-Ring	NBR
	7	Pin	Stainless Steel
Operating Device and Direction	8	Gearbox with clockwise closed	Carbon Steel

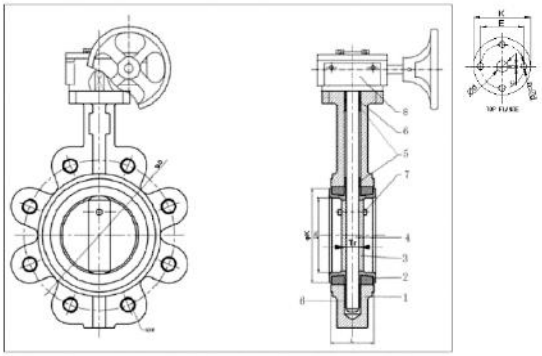


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI WAFER RESILIENT/SOFT SEATED BUTTERFLY VALVE, DN40-DN300

● MANUAL LEVER DN40-300

Table 1. Design Requirement

Standard	EN593
Face to Face	EN558 Series 20
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	φD	φK	n-φd	K	E	c	N-M	Tr
40	33	110	-	4-φ19	90	70	3	4-M16	12.7
50	43	125	52.9	4-φ19	90	70			
65	46	145	64.5	4-φ19	90	70			
80	46	160	78.8	4-φ19	90	70		8-M16	
100	52	180	104	4-φ19	90	70			15.8
125	56	210	123.3	4-φ19	90	70			19.05
150	56	240	155.1	4-φ23	90	70		8-M20	
200	60	295	202.5	4-φ23	125	102			22.2
250	68	355	250.5	4-φ26	125	102		12-M20	28.6
300	78	410	301.6	4-φ26	125	102		16-M20	31.8

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
Trim	2	Shaft	Stainless Steel
	3	Disc	Ductile Iron
	4	Body Seat	NBR
Sealing	5	Shaft Sleeve	PTFE
	6	O-Ring	
Fastener	7	Bolt and Washer	Stainless Steel
	8	Pin	Stainless Steel
Operating Device and Direction	9	Leverwith clockwise closed	Carbon Steel

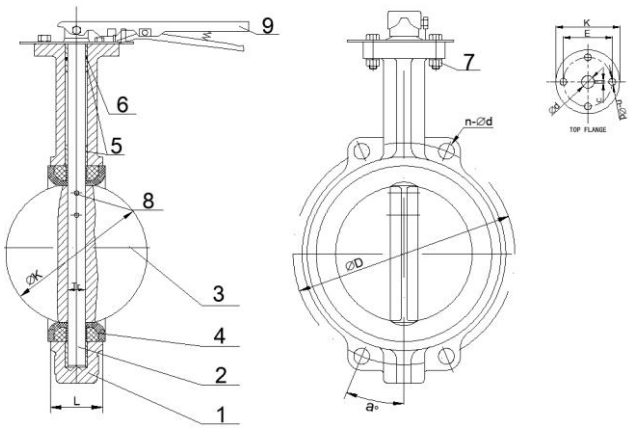


Table 4

Coating	
Body	Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005
Disc	Nickel Plating

- **MANUAL GEARBOX(WORE GEAR) DN40-300**

Table 1. Design Requirement

Standard	EN593
Face to Face	EN558 Series 20
Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	φD	φK	n-φd	K	E	c	N-M	Tr
40	33	110	-	4-φ19	90	70	3	4-M16	12.7
50	43	125	52.9	4-φ19	90	70	3	4-M16	
65	46	145	64.5	4-φ19	90	70	3	4-M16	
80	46	160	78.8	4-φ19	90	70	3	8-M16	
100	52	180	104	4-φ19	90	70	3	8-M16	15.8
125	56	210	123.3	4-φ19	90	70	3	8-M16	19.05
150	56	240	155.1	4-φ23	90	70	3	8-M20	
200	60	295	202.5	4-φ23	125	102	3	8-M20	22.2
250	68	355	250.5	4-φ26	125	102	3	12-M20	28.6
300	78	410	301.6	4-φ26	125	102	3	16-M20	31.8

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
Trim	2	Shaft	Stainless Steel
	3	Disc	Ductile Iron
	4	Body Seat	NBR
Sealing	5	Shaft Sleeve	PTFE
	6	O-Ring	
Fastener	7	Bolt and Washer	Carbon Steel
	8	Pin	Stainless Steel
Operating Device and Direction	9	Gearbox with clockwise closed	Carbon Steel

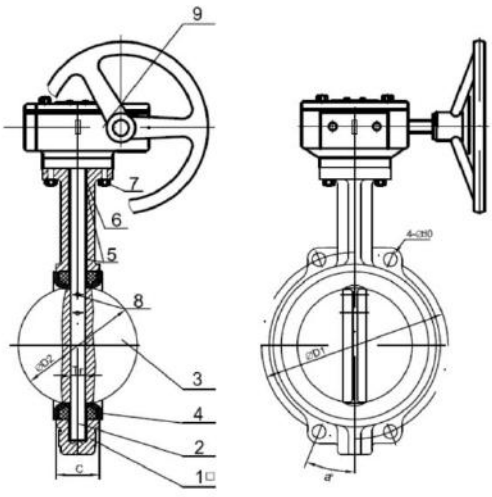


Table 4

Coating	
Body	Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005
Disc	Nickel Plating

DI SEMI BORE SWING CHECK VALVE, DN50-DN1000

Table 1. Design Requirement

Standard	BS5153
Face to Face	EN558 Series 10
Connection	FlangedEN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	203	165		125		19		4-φ19	
65	216	185		145		19		4-φ19	
80	241	200		160		19		8-φ19	
100	292	220		180		19		8-φ19	
125	330	250		210		19		8-φ19	
150	356	285		240		19		8-φ23	
200	495	340		295		20		8-φ23	12-φ23
250	622	400		350	355	22		12-φ23	12-φ28
300	698	455		400	410	24.5		12-φ23	12-φ28
350	787	505	520	460	470	24.5	26.5	16-φ23	16-φ28
400	914	565	580	515	525		28	16-φ28	16-φ31
450	978	615	640	565	585		30	20-φ28	20-φ31
500	978	670	715	620	650	26.5	31.5	20-φ28	20-φ34
600	1295	780	840	725	770	30	36	20-φ31	20-φ37
700	1448	895	910	840	840	32.5	39.5	24-φ31	24-φ37
800	1676	1015	1025	950	950	35	43	24-φ34	24-φ40
900	1956	1115	1125	1050	1050	37.5	46.5	28-φ34	28-φ40
1000	-	1230	1255	1160	1170	40	50	28-φ37	28-φ43

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
Trim	3	Disc	Carbon Steel
	4	Disc Seat	EPDM
	5	Plug	Stainless Steel
Sealing	6	Gasket	NBR
Fastener	7	Bolt	Stainless Steel

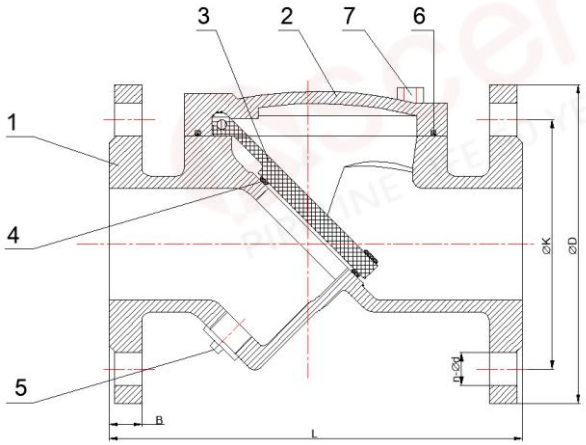


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI FULL BORE SWING CHECK VALVE, DN50-DN900

Table 1. Design Requirement

Standard	BS5153
Face to Face	EN558 Series 10
Connection	FlangedEN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	203	165		125		19		4-φ19	
65	216	185		145		19		4-φ19	
80	241	200		160		19		8-φ19	
100	292	220		180		19		8-φ19	
125	330	250		210		19		8-φ19	
150	356	285		240		19		8-φ23	
200	495	340		295		20		8-φ23	12-φ23
250	622	400		350	355	22		12-φ23	12-φ28
300	698	455		400	410	24.5		12-φ23	12-φ28
350	787	505	520	460	470	24.5	26.5	16-φ23	16-φ28
400	914	565	580	515	525		28	16-φ28	16-φ31
450	978	615	640	565	585		30	20-φ28	20-φ31
500	978	670	715	620	650	26.5	31.5	20-φ28	20-φ34
600	1295	780	840	725	770	30	36	20-φ31	20-φ37
800	1676	1015	1025	950	950	35	43	24-φ34	24-φ40
900	1956	1115	1125	1050	1050	37.5	46.5	28-φ34	28-φ40

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	Ductile Iron
Trim	3	Disc	Ductile Iron
	4	Disc Seat	EPDM
	5	Cap	Stainless Steel
	6	Arm	Ductile Iron
	7	Plug axle	Stainless Steel
	8	Washer	
Sealing	9	Gasket	EPDM
Fastener	10	Bolt	Stainless Steel

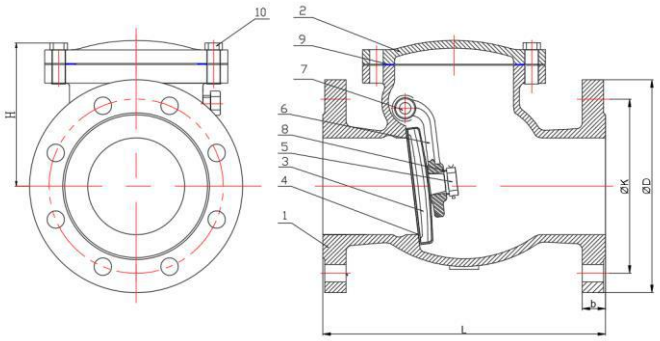


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI SWING CHECK VALVE WITH COUNTER WEIGHT, DN50-DN1000

Table 1. Design Requirement

Standard	BS5153
Face to Face	EN558 Series 10
Connection	FlangedEN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	H	φD		φK		b		n-φd	
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	203	137	165		125		19		4-φ19	
65	216	147	185		145		19		4-φ19	
80	241	159	200		160		19		8-φ19	
100	292	180	220		180		19		8-φ19	
125	330	203	250		210		19		8-φ19	
150	356	223	285		240		19		8-φ23	
200	495	258	340		295		20		8-φ23	12-φ23
250	622	290	400		350	355	22		12-φ23	12-φ28
300	698	325	455		400	410	24.5		12-φ23	12-φ28
350	787	388	505	520	460	470	24.5	26.5	16-φ23	16-φ28
400	914	420	565	580	515	525	24.5	28	16-φ28	16-φ31
450	978	-	615	640	565	585	24.5	30	20-φ28	20-φ31
500	978	-	670	715	620	650	26.5	31.5	20-φ28	20-φ34
600	1295	-	780	840	725	770	30	36	20-φ31	20-φ37
700	1448	-	895	910	840	840	32.5	39.5	24-φ31	24-φ37
800	1676	-	1015	1025	950	950	35	43	24-φ34	24-φ40
900	1956	-	1115	1125	1050	1050	37.5	46.5	28-φ34	28-φ40
1000	-	-	1230	1255	1160	1170	40	50	28-φ37	28-φ43

Table 3. Component

Classify	No.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
	3	Gland	
Sealing			
	12	Gasket	EPDM
Fastener	13	Bolt	Stainless Steel
Accessory	14	Lever	Ductile Iron
Operating Device And Direction	15	Counter Weight with clockwise closed	

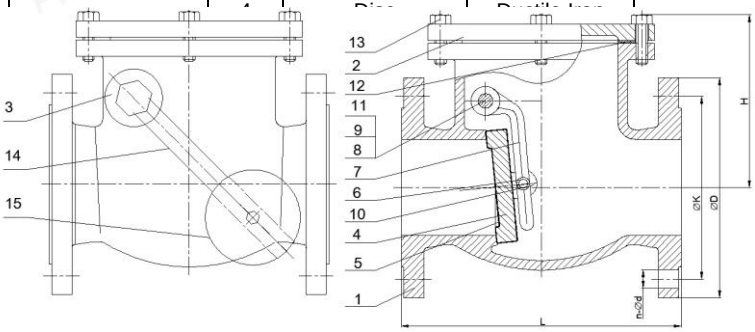


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI BUTTERFLY CHECK VALVE WITH COUNTER WEIGHT, DN100-DN1000

Table 1. Design Requirement

Standard	BS 5153
Face to Face	ISO 5752-14
Connection	Flanged EN1092-2 PN16
Testing	EN12266
Working Pressure	1.6MPa
Shell Pressure	2.4MPa
Internal Pressure	1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70°℃

Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
100	190	220	220	180	180	19		8-φ19	
150	210	285	285	240	240	19		8-φ23	
200	230	340	340	295	295	20		8-φ23	12-φ23
250	250	385	405	350	355	22		12-φ23	12-φ28
300	270	445	460	400	410	24.5		12-φ23	12-φ28
350	290	505	520	460	470	24.5	26.5	16-φ23	16-φ28
400	310	565	580	515	525	24.5	28	16-φ28	16-φ31
450	330	615	640	565	585	24.5	30	20-φ28	20-φ31
500	350	570	715	620	650	26.5	31.5	20-φ28	20-φ34
600	390	780	840	725	770	30	36	20-φ31	20-φ37
700	430	895	910	840	840	32.5	39.5	24-φ31	24-φ37
800	470	1015	1025	950	950	35	43	24-φ34	24-φ40
900	510	1115	1125	1050	1050	37.5	46.5	28-φ34	28-φ40
1000	550	1230	1255	1160	1170	40	50	28-φ37	28-φ43

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	Carbon Steel
	3	Gland	
Trim	4	Stem	Stainless Steel
	5	Disc	Ductile Iron
	6	Disc Seat	EPDM
	7	Retaining Ring	Carbon Steel
	8	Bolt	
Sealing	9	Gasket	Carbon Steel
	10	Bonnet Bushing	NBR
	11	Gasket	
Fastener	12	Bolt	Carbon Steel
	13	Washer	NBR
	14	Pin	Stainless Steel
	15	Bolt	Stainless Steel
Operating DeviceAnd Direction	16	Counter Weightwith clockwise closed	Carbon Steel

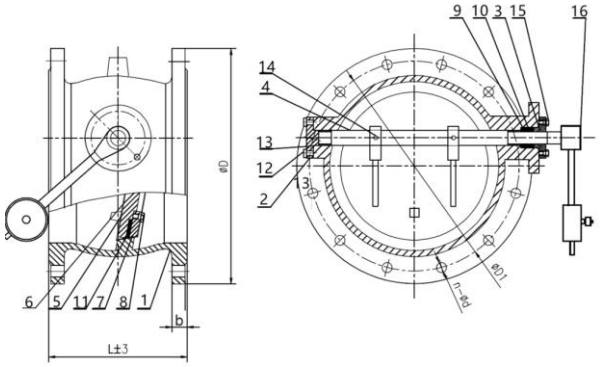


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI BALL CHECK VALVE, DN50-DN300

Table 1. Design Requirement

Standard	BS5153
Face to Face	EN558 Series 48
Connection	FlangedEN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	H	φD		φK		b		n-φd	
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	200	100	165		125		19		4-φ19	
65	240	125	185		145				4-φ19	
80	260	136	200		160				8-φ19	
100	300	185	220		180				8-φ19	
125	350	196	250		210				8-φ19	
150	400	265	285		240				8-φ23	
200	500	340	340		295		20		8-φ23	12-φ23
250	600	420	400		350	355	22		12-φ23	12-φ28
300	700	480	455		400	410	24.5		12-φ23	12-φ28

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Ball	Ductile Iron+EPDM
Sealing	4	Gasket	EPDM
Fastener	5	Bolt	Stainless Steel
	6	Nut	

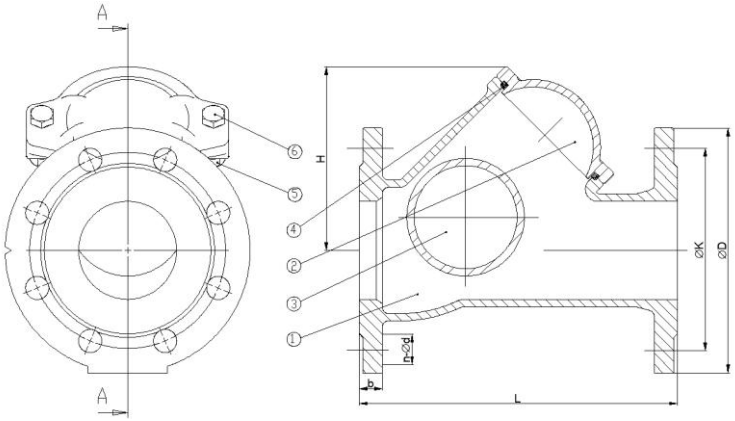


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI SILENT CHECK VALVE, DN40-DN300

Table 1. Design Requirement

Standard	BS5153
Face to Face	EN558 Series 1
Connection	Flanged EN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
40	200	150		110		19		4-φ19	
50	230	165		125		19		4-φ19	
65	290	185		145		19		4-φ19	
80	310	200		160		19		8-φ19	
100	350	220		180		19		8-φ19	
125	400	250		210		19		8-φ19	
150	480	285		240		19		8-φ23	
200	600	340		295		20		8-φ23	12-φ23
250	730	400		350	355	22		12-φ23	12-φ28
300	850	455		400	410	24.5		12-φ23	12-φ28

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
Trim	2	Disc	Ductile Iron
	3	Seat	
	4	Spring	Stainless Steel
Sealing	5	Sealing Ring	NBR
	6	Sleeve	Nylon

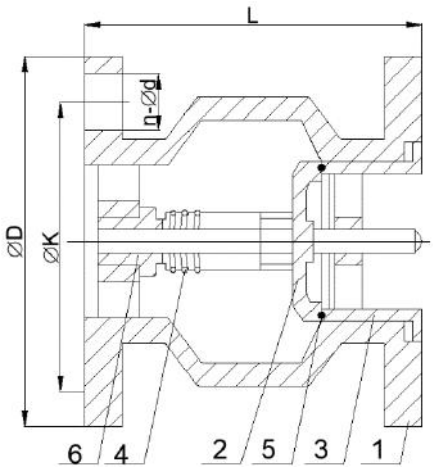


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI DOUBLE PLATE WAFER CHECK VALVE, DN50-DN300

Table 1. Design Requirement

Standard	EN1074-3
Face to Face	EN558 Series 16
Connection	Flanged EN 1092-2 PN16
Testing	EN 12266
Working Pressure	1.6MPa
Shell Pressure	2.4MPa
Internal Pressure	1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	φD
50	43	107
65	46	127
80	64	142
100	64	162
125	70	192
150	76	218
200	89	273
250	114	328
300	114	378

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
Trim	2	Stem	Stainless Steel
	3	Disc	Ductile Iron
	4	Disc Seat	NBR
	5	Spring	Stainless Steel
Sealing	6	Adjust Washer	PTFE
Fastener	7	Plate Rivet	Aluminum

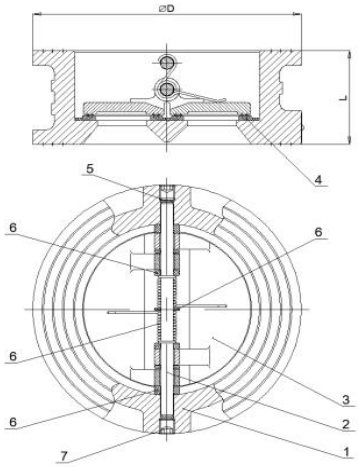


Table 4

Coating	
Body	Fusion Bonded Epoxy (≥300μm-EN14901) , color-RAL5005
Disc	Nickel Plating

DI DOUBLE ORIFICE AIR VALVE, DN50-DN200

• DI DOUBLE ORIFICE AIR VALVE, DN50-200

Table 1. Design Requirement

Standard	EN1074-4
Connection	Flanged EN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	L	H	φD		φK		b		n-φd		W
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
50	232	329	165		125		19		4-φ19		206
65	232	329	185		145				4-φ19		206
80	232	329	200		160				8-φ19		280
100	238	413	220		180				8-φ19		280
125	238	413	250		210				8-φ19		280
150	238	413	285		240				8-φ23		280
200	238	413	340		295				8-φ23	12-φ23	280

Table 3. Component

Classify	No.	Name	Material
Shell	1	Main Body	Ductile Iron
	2	Side Body	
	3	Cover	
	4	Cow	Carbon Steel
Trim	5	Float Guides	ABS
	6	Main Float	
	7	Side Float	
	8	Support	
	9	Bracket	Nylon
	10	Adjust Screw	Stainless Steel
	11	Seat	EPDM
	12	Seat Ring	
	13	Seat Support	ABS
Sealing	14	O-Ring	NBR
	15	Gasket	EPDM
	16	Cap	Nylon
Fastener	17	Hinge Pin	Carbon Steel
	18	Hexagon Bolt	
	19	Hexagon Bolt	
	20	Nut	
	21	Washer	
	22	Washer	

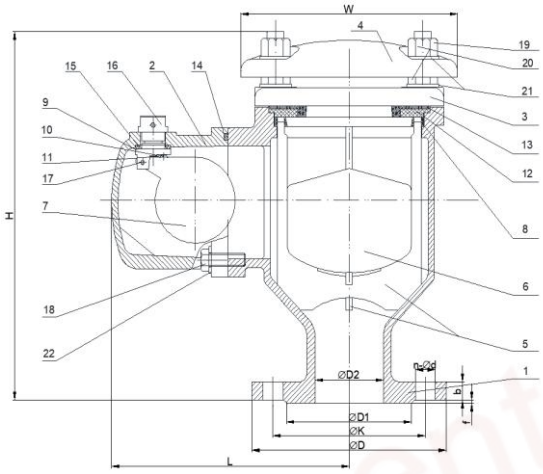


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

• DI DOUBLE ORIFICE AIR VALVE DN50-200

Table 1. Design Requirement

Standard	EN1074-4
Connection	Flanged EN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	D	C	A	φD		φK		b		n-φd	
				PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	187	115	215	165		125		19		4-φ19	
65	187	115	215	185		145				4-φ19	
80	230	145	240	200		160				8-φ19	
100	300	145	285	220		180				8-φ19	
150	369	190	285	285		240				8-φ23	
200	398	205	500	340		295		20		8-φ23	12-φ23

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Main Float	Stainless Steel
	4	Side Float	
Sealing	5	Sealing Ring	NBR
Fastener	6	Bolt and Washer	Carbon Steel
Accessory	7	Rain Cover	Ductile Iron
	8	Nozzle	Brass

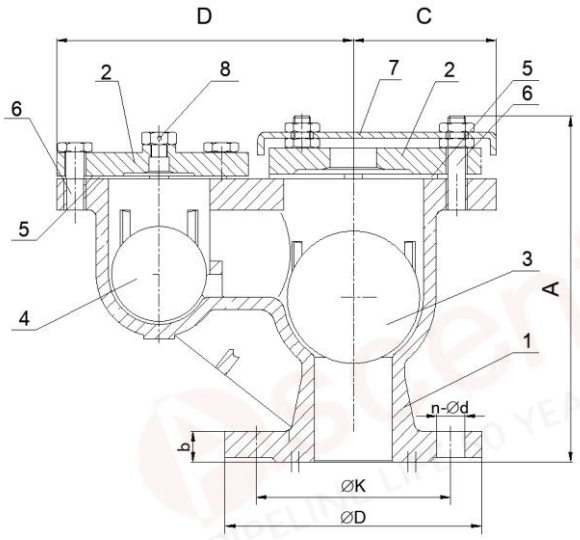


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

● DI DOUBLE ORIFICE AIR VALVE WITH INTERGRATED ISOLATING DEVICE DN50-200

Table 1. Design Requirement

Standard	EN1074-4
Connection	Flanged EN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	L	H	φD		φK		b		n-φd	
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	340	325	165		125		19		4-φ19	
65	340	330	185		145				4-φ19	
80	340	335	200		160				8-φ19	
100	340	340	220		180				8-φ19	
150	470	395	285		240				8-φ23	
200	470	420	340		295				8-φ23	12-φ23

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Floating Ball	Stainless Steel
	4	Stem	Stainless Steel
	5	Disc	Ductile Iron
	6	Disc Seat	NBR
	7	Cover Seat	
	8	Screw	Stainless Steel
	9	Retaining Plate	Carbon Steel
	10	Steel Ball	Stainless Steel
Sealing	11	Gland	Ductile Iron
	12	Packing	Graphite
	13	Gasket	Asbestos Plate
Fastener	14	Stud	Carbon Steel (Hot dip galvanized)
	15	Hexagon Bolt	
	16	Hexagon Bolt	
	17	Bolt	
Accessory	18	Rain Cover	Carbon Steel

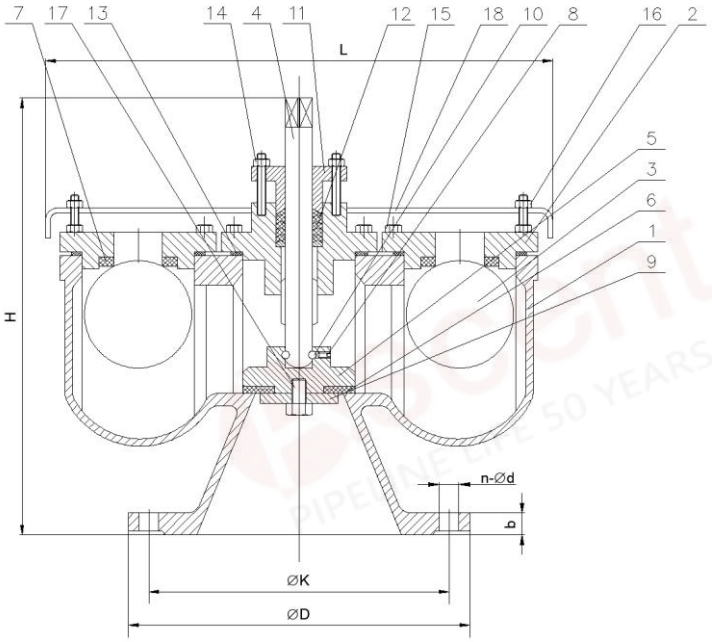


Table 4

Coating	
Body	Fusion Bonded Epoxy (≥300μm-EN14901) , color-RAL5005
Disc	
Retaining Plate	
Rain Cover	

DI SINGLE ORIFICE AIR VALVE, DN50-DN200

DI SINGLE ORIFICE AIR VALVE DN50-200

Table 1. Design Requirement

Standard	EN1074-4
Connection	Flanged EN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	H	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	215	165		125		19		4-φ19	
65	215	185		145		19		4-φ19	
80	285	200		160		19		8-φ19	
100	285	220		180		19		8-φ19	
150	385	285		240		19		8-φ23	
200	500	340		295		20		8-φ23	12-φ23

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
Trim	3	Ball	Stainless Steel
	4	Nozzle	Brass
	5	Cover Seat	EPDM
Sealing	6	O-Ring	
	7	Gasket	
Fastener	8	Bolt	Stainless Steel

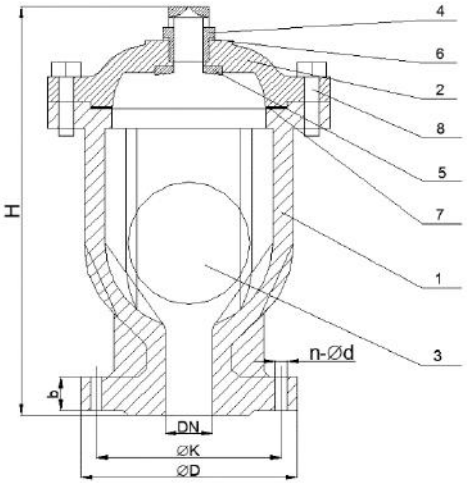


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

- **DI SINGLE ORIFICE AIR VALVES THREADED ENDWITHBRASS BALL VALVE AND FLANGE DN50-200**

Table 1. Design Requirement

Standard	EN 1074-4
Connection	Flanged EN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.6MPa
Shell Pressure	2.4MPa
Internal Pressure	1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	H1	W	H2
15	137	115	210
20	137	115	210
25	137	115	210
32	137	115	210
40	137	115	210
50	137	115	210

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
Trim	3	Ball	Stainless Steel
	4	Nozzle	Brass
	5	Cover Seat	EPDM
	6	Pin	Stainless Steel
Sealing	7	O-Ring	EPDM
	8	Gasket	
Fastener	9	Bolt and Washer	Stainless Steel
	10	Round Nut with Slot	Stainless Steel
Accessory	11	Isolation Valve	Brass

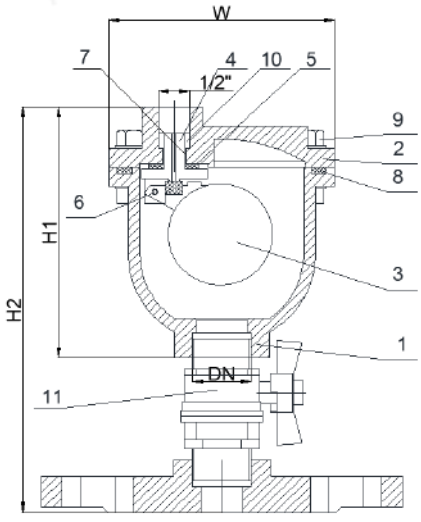


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI SINGLE ORIFICE AIR VALVE THREADED END NPS1/2"-NPS2"

Table 1. Design Requirement

Standard	EN 1074-4
Connection	ThreadedISO 228-1
Testing	EN 12266
Working Pressure	1.6MPa
Shell Pressure	2.4MPa
Internal Pressure	1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

G	H	W
1/2”	137	115
3/4”	137	115
1”	137	115
1 1/4”	137	115
1 1/2”	137	115
2”	137	115

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
Trim	3	Ball	Stainless Steel
	4	Nozzle	Brass
	5	Cover Seat	EPDM
	6	Pin	Stainless Steel
Sealing	7	O-Ring	EPDM
	8	Gasket	
Fastener	9	Bolt and Washer	Stainless Steel
	10	Round Nut with Slot	Stainless Steel

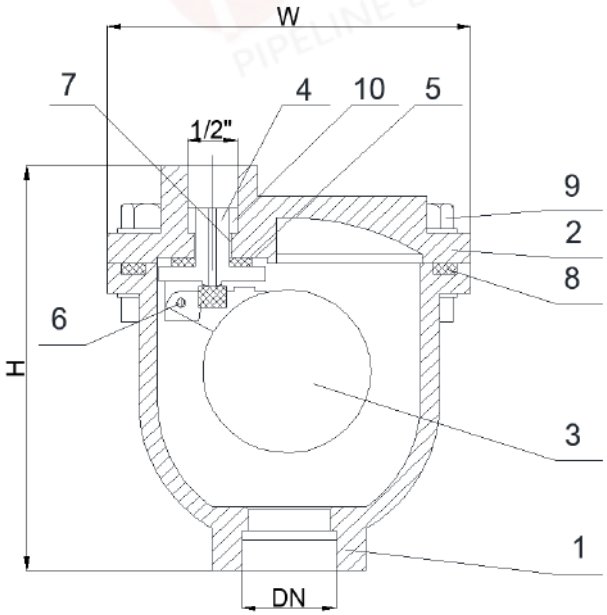


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI Y-TYPE STRAINER DN50-DN300

Table 1. Design Requirement

Face to Face	EN558 Series 1
Connection	Flanged EN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	230	165		125		19		4-φ19	
65	290	185		145		19		4-φ19	
80	310	200		160		19		8-φ19	
100	350	220		180		19		8-φ19	
125	400	250		210		19		8-φ19	
150	480	285		240		19		8-φ23	
200	600	340		295		20		8-φ23	12-φ23
250	730	400		350	355	22		12-φ23	12-φ28
300	850	455		400	410	24.5		12-φ23	12-φ28

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
Trim	3	Filter Screen	Stainless Steel
	4	Vent Plug	
Sealing	5	Gasket	EPDM
Fastener	6	Bolt	Stainless Steel

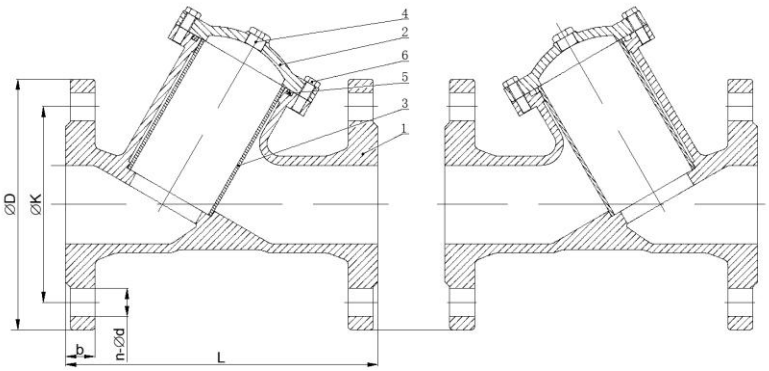


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI T-TYPE STRAINER DN50-DN300

Table 1. Design Requirement

Connection	Flanged EN 1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	H1	H2	φD		φK		b		n-φd	
				PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	207	114	98	165		125		19		4-φ19	
65	210	129	112	185		145		19		4-φ19	
80	251	142	125	200		160		19		8-φ19	
100	292	165	160	220		180		19		8-φ19	
125	334	173	185	250		210		19		8-φ19	
150	378	165	235	285		240		19		8-φ23	
200	475	215	295	340		295		20		8-φ23	12-φ23
250	511	250	340	400		350	355	22		12-φ23	12-φ28
300	667	283	423	455		400	410	24.5		12-φ23	12-φ28

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Cover	
Trim	3	Filter Screen	Stainless Steel
	4	Plug	
Sealing	5	Gasket	EPDM
Fastener	6	Bolt	Stainless Steel

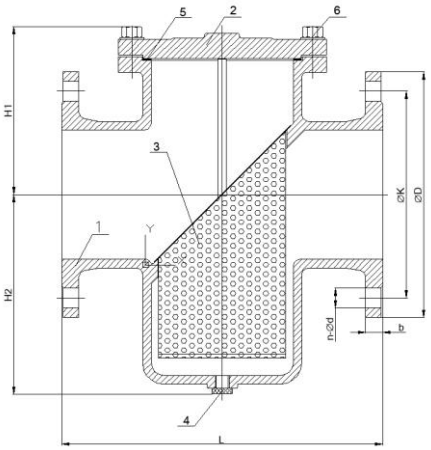


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI UNDERGROUND FIRE HYDRANTDN80

Table 1. Design Requirement

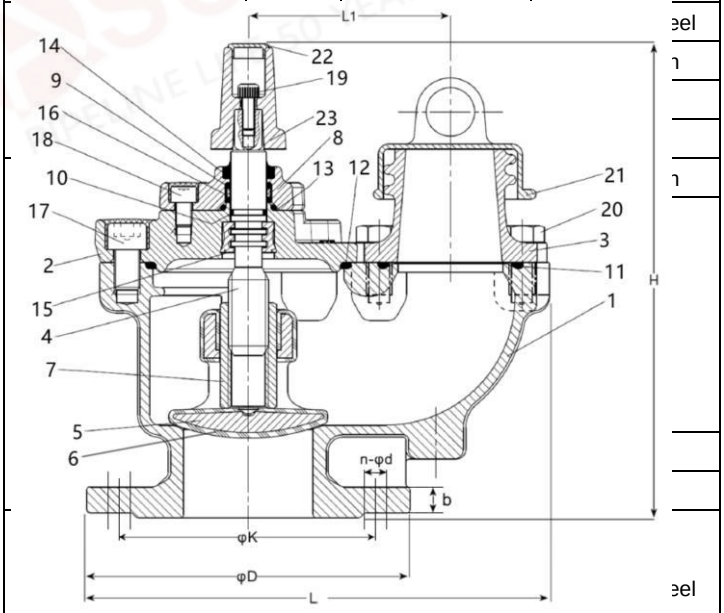
Standard	BS 750
Connection	Flanged EN 1092-2 PN16
Testing	EN 12266
Working Pressure	1.6MPa
Shell Pressure	2.4MPa
Internal Pressure	1.76MPa
Type of Fluid	Water
Fluid Temperature	0-70℃

Table 2. Dimension (mm)

DN	L	L1	H	φD	φK	b	n-φd
80	286	125	293	200	160	19	8-φ19

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
	3	Outlet	Brass
	20	Screw	
Accessory	21	Outlet Cap	PE
	22	Insert Cap	
Operating Device And Direction	23	Stem Cap with clockwise closed	Ductile Iron



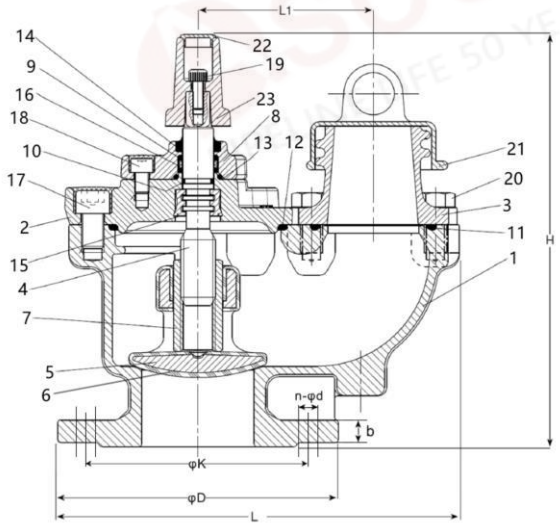


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI PILLAR FIRE HYDRANT, DN80 DN100 DN150

● DI PILLAR FIRE HYDRANT WITH 90° DUCKFOOT BEND

Table 1. Design Requirement

Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	H	φD	φK	b	n-φd
100	1080	220	180	19	8-φ19
150	1200	285	240	19	8-φ23

Table 3. Component

Classify	No.	Name	Material
Shell	1	Body	EN-GJS-500-7
	2	Hydrant Cap	S235JR
	3	Outlet Cover	EN-GJS-500-7
Trim	4	Stem	Carbon Steel
	5	Body Seat	Brass
	6	Stem Nut	Brass
Sealing	7	Flange Gasket	NBR
	8	Body Gasket	
	9	Outlet Cover Sealing Gasket	
	10	Ring	Carbon Steel
	11	O-Ring	NBR
	12	Valve Clack Gasket	NBR
Fastener	13	Bolt and Washer	Carbon Steel
	14	Cross Recessed Countersunk	Carbon Steel
Accessory	15	Flange	EN-GJS-500-7
	16	KWS65 Type Male	Assembly
	17	Chain	Assembly
	18	Valve Clack	Assembly
	19	Platen	Carbon Steel
	20	Drain Valve	Assembly

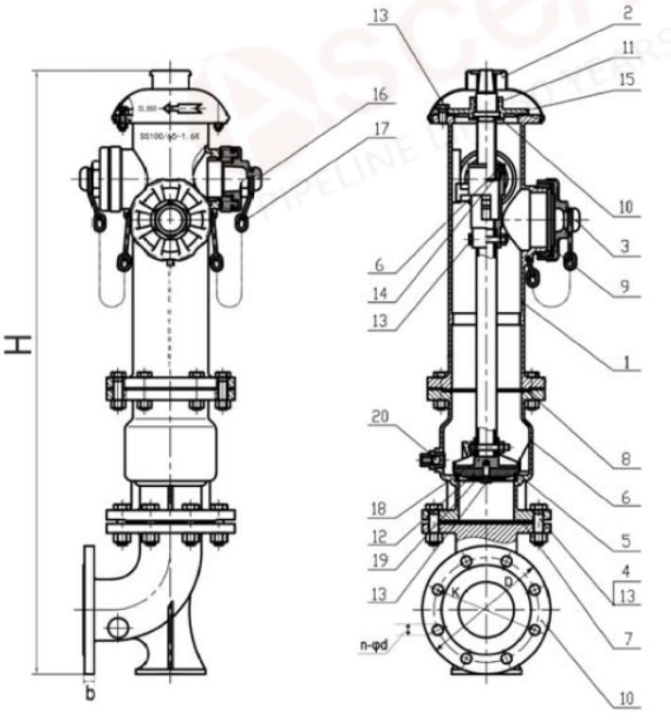


Table 4

Coating	
Fire Hydrant body	Red alkyd paint
Valve body and Double Flanged 90° DuckfootBend	Zinc rich coating (≥130g/㎡-ISO8179-2),Black Bitumencoating (≥70um-BS3416)

- **DI PILLAR FIRE HYDRANT**

Table 1. Design Requirement

Connection	Flanged EN1092-2 PN10/16
Testing	EN 12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	H	φD	φK	b	n-φd
100	1080	220	180	19	8-φ19
150	1200	285	240	19	8-φ23

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	EN-GJS-500-7
	2	Hydrant Cap	S235JR
	3	Outlet Cover	EN-GJS-500-7
Trim	4	Stem	Carbon Steel
	5	Body Seat	Brass
	6	Stem Nut	Brass
Sealing	7	Body Gasket	NBR
	8	Outlet Cover Sealing Gasket	
	9	Ring	Carbon Steel
	10	O-Ring	NBR
	11	Valve Clack Gasket	NBR
Fastener	12	Bolt and Washer	Carbon Steel
	13	Cross Recessed Countersunk Head Screws M6X12	Carbon Steel
Accessory	14	Flange	EN-GJS-500-7
	15	KWS65 Type Male Thread Connector	Assembly
	16	Chain	Assembly
	17	Valve Clack	Assembly
	18	Platen	Carbon Steel
	19	Drain Valve	Assembly

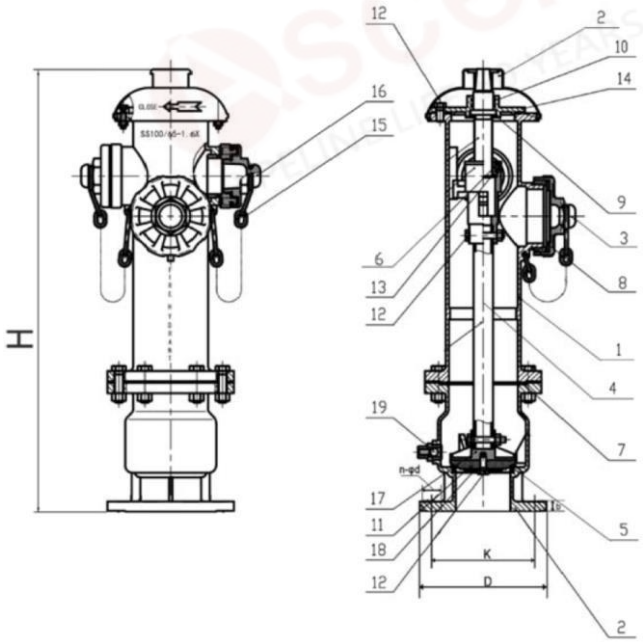


Table 4

Coating
Red alkyd paint

DI FOOT VALVE DN50-300

Table 1. Design Requirement

Connection	Flanged EN 1092-2 PN10/16
Testing	EN12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	φD		φK		b		n−φd	
	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	165		125		19		4-φ19	
65	185		145				4-φ19	
80	200		160				8-φ19	
100	220		180				8-φ19	
125	250		210				8-φ19	
150	285		240				8-φ23	
200	340		295		20		8-φ23	12-φ23
250	400		350	355	22		12-φ23	12-φ28
300	455		400	410	24.5		12-φ23	12-φ28

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Stem	Stainless Steel
	4	Disc	Ductile Iron
	5	Disc Seat	NBR
	6	Spring	Steel
	7	Filter Screen	Stainless Steel
Sealing	8	Bonnet Bushing	Brass
	9	O-Ring	NBR
Fastener	10	Bolt and Washer	Stainless Steel
	11	Bolt and Washer	

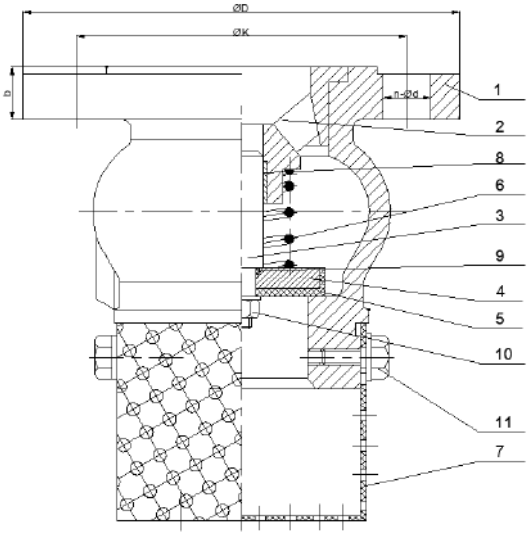


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI FLAP VALVE DN50-300

Table 1. Design Requirement

Connection	Flanged EN 1092-2 PN10/16
Testing	EN12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70°℃

Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	129	165		125		19		4-φ19	
65	146	185		145				4-φ19	
80	150	200		160				8-φ19	
100	158	220		180				8-φ19	
125	165	250		210				8-φ19	
150	168	285		240				8-φ23	
200	185	340		295		20		8-φ23	12-φ23
250	245	400		350	355	22		12-φ23	12-φ28
300	305	455		400	410	24.5		12-φ23	12-φ28

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Filter Screen	Stainless Steel
Sealing	4	Rubber Ring	EPDM
Fastener	5	Pin	Stainless Steel
	6	Washer	
	7	Cotter Pin	
Accessory	8	Galvanized LiftingRing	Carbon Steel

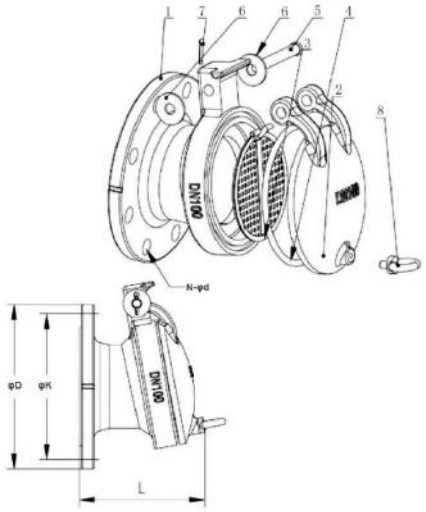


Table 4

Coating
Fusion Bonded Epoxy (≥300μm-EN14901),color-RAL5005

DI PLUNGER VALVE



DI GLOBE VALVE



EXTENSION SPINDLE




DI SURFACE BOX

DI ELECTROMAGNETIC FLOWMETER

DI MECHANICAL WATERMETER

DI CONTROL VALVE (FLOW RATE, LEVEL, PRESSURE) DN50-300

● PRESSURE REDUCING VALVE DN50-300

Table 1. Design Requirement

Standard	EN 1074
Face to Face	EN558 Series 10
Connection	Flanged EN 1092-2 PN10/16
Testing	EN12266
Working Pressure	1.0/1.6MPa
Shell Pressure	1.5/2.4MPa
Internal Pressure	1.1/1.76MPa
Type of Fluid	Water
Fluid Temperature	0~70℃

Table 2. Dimension (mm)

DN	L	φD		φK		b		n-φd	
		PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	203	165		125		19		4-φ19	
65	216	185		145				4-φ19	
80	241	200		160				8-φ19	
100	292	220		180				8-φ19	
125	330	250		210				8-φ19	
150	356	285		240				8-φ23	
200	495	340		295		20		8-φ23	12-φ23
250	622	400		350	355	22		12-φ23	12-φ28
300	698	455		400	410	24.5		12-φ23	12-φ28

● OTHER CONTROLVALVE

Table 3. Component

Classify	NO.	Name	Material
Shell	1	Body	Ductile Iron
	2	Bonnet	
Trim	3	Stem	Stainless Steel
	4	Disc Seat	
	5	Spring	
	19	Screw	

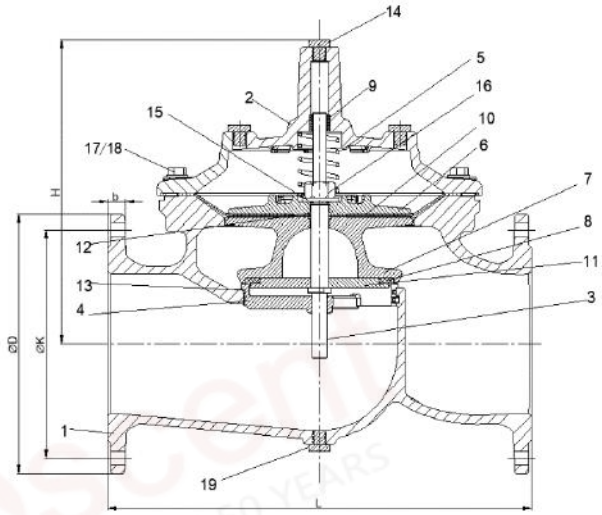
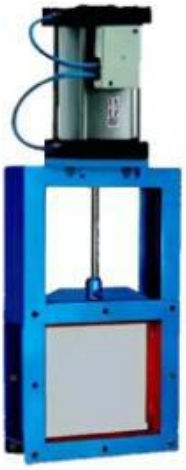


Table 4

	Accessory		
Accessory	NO.	Name	Material
	1	Pressure Meter	-
	2	Pin Valve	Stainless Steel
	3	Pilot Valve	
	4	Conduit	
Coating	Fusion Bonded Epoxy (≥300um-EN14901),color-RAL5005		

DI PENSTOCK



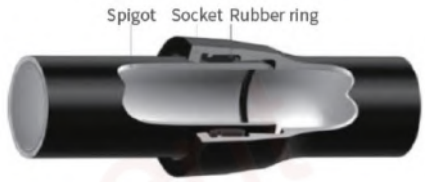
PLEASE CHECK OUR PROFESSIONAL WATER PIPELINES VOLUME

▶DI PIPE

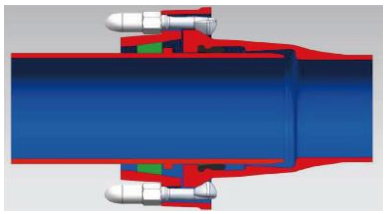
Standard: EN545, EN598, ISO2531, EN1092-2, ISO7005-2, EN197-1, EN196-1, ISO4179, ISO16132, ISO8179-1, ISO8179-2, ISO8180, EN14901, EN681-1, ISO4633, EN1514, EN ISO4016, EN ISO4034, EN ISO7091, and other Normative References.

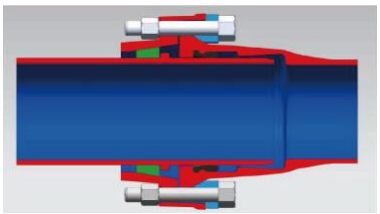
Type and Joints

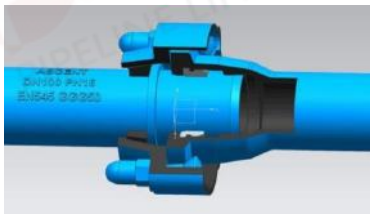
1. Socket Spigot Pipe
   Push in Flexible Joint, Non-restrained. (a)
   Accessory: EPDM Gasket,



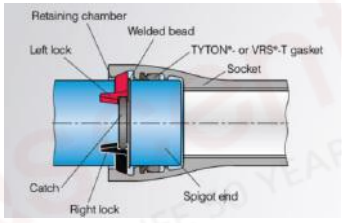
2. TF self-anchored Pipe(T-type socket with K edge and Spigot end with welding ring)
   Push in Flexible Joint, Restrained. (a)
   Accessory: EPDM Gasket, Gland, Locking ring, DI hooked bolts and nuts (≤DN1000), Steel bolts and nuts(>DN1000), Locking block(>DN1000).

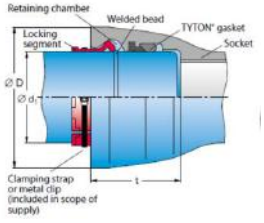


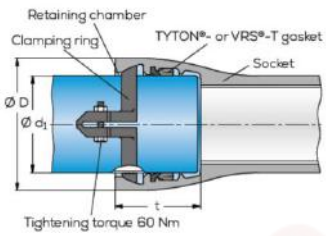




3. Internal self-anchored pipe (T-type socket with retaining chamber and Spigot end with welding ring)
   Push in Flexible Joint, Restrained. (a)
   Accessory: EPDM Gasket, Left lock + Right lock + Catch (DN80-DN500), Locking segment + Clamping strap (DN600-DN1000)







DN80-DN500 DN600-DN1000 Internal self-anchored pipe with cutting spigot end

4. Double flanged Pipe (with Puddle flange) (b)
Accessory: EPDM gasket, Steel bolts and nuts.

Double flanged Pipe

Double flanged Pipe with Puddle flange

5. Flanged Spigot Pipe (with Puddle flange) (b)
Accessory: EPDM gasket, Steel bolts and nuts.

Flanged Spigot Pipe Flanged Spigot Pipe with Puddle flange

6. Double Spigot Pipe, (with Puddle flange) (b)

Double Spigot Pipe

Double Spigot Pipe with Puddle flange

7. Socket Flanged Pipe, (with Puddle flange) (b)

Socket Flanged Pipe

Socket Flanged Pipe with Puddle flange

8. Jacking Pipe, (c)

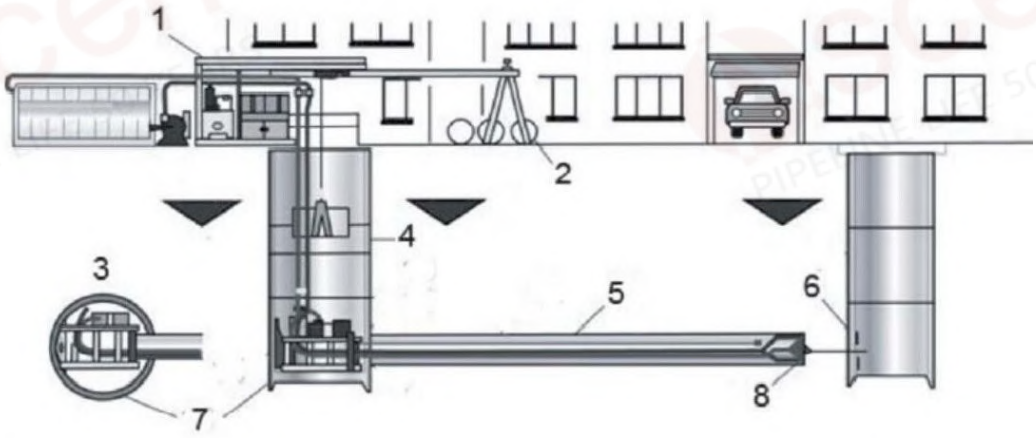





Note: (a)Centrifugal casting (b)Fabrication cut and weld on flange through socket spigot pipe (c)Socket spigot pipe with cement

Corresponding DNs for trenchless technologies

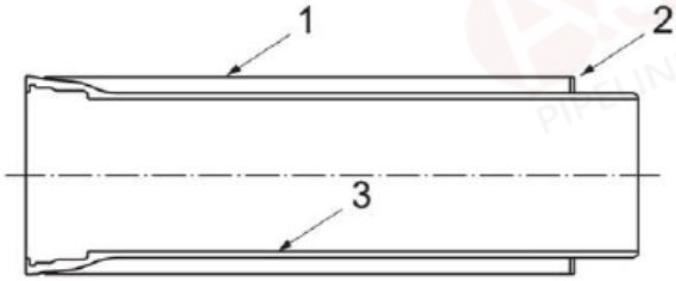
	Pulling methods	Pushing methods
Horizontal directional drilling (HDD)	Yes DN 100 to DN 1 200	No
Pipe bursting (PB)	Yes DN 100 to DN 1 200	Yes DN 100 to DN 1 200
Casing method (CM)	Yes DN 80 to DN 2 600	Yes DN 80 to DN 2 600
Pipe jacking (PJ)	No	Yes DN 250 to DN 2 600



Key

1 control container
2 jacking pipes
3 plan view on launch shaft
4 launch shaft
5 jacking pipes
6 reception seal
7 jacking frame
8 lead pipe

Pipe jacking method



Key

1 sheath
2 flange
3 pipe

Jacking pipe profile

Allowable pushing force resistance for pipe jacking

DN	Pushing force resistance kN			
	C20	C25	C30	C40
250	—	—	—	920[a]
300	—	—	720[b]	1 240[a]
350	—	700[b]	1 270[a]	1 740[b]
400	—	850[b]	1 350[a]	2 190[b]
450	—	1 110[b]	1 560[a]	2 760[b]
500	—	1 300[b]	1 910[a]	3 300[b]
600	—	1 910[b]	2 720[a]	3 730[b]
700	1 650[b]	2 720[a]	3 670[b]	6 350[b]
800	2 110[b]	3 300[a]	4 760[b]	6 570[b]
900	2 640[b]	4 140[a]	5 990[b]	6 570[b]
1 000	3 300[b]	5 080[a]	7 240[b]	9 020[b]
1 100	3 950[b]	6 110[a]	8 890[b]	9 020[b]
1 200	4 650[b]	7 240[a]	9 020[b]	9 020[b]
1 400	6 350[b]	9 020[a]	9 020[b]	—
1 500	7 240[b]	11 350[a]	12 360[b]	—
1 600	8 320[b]	12 360[a]	12 360[b]	—
1 800	10 390	12 360[a]	12 360[b]	—
2 000	12 860[b]	16 970[a]	16 970[b]	—
2 200	15 600[b]	16 970[a]	—	—
2 400	16 970[b]	16 970[a]	—	—
2 600	21 650[b]	23 340[a]	—	—

NOTE For higher pressure classes, see the manufacturer's handbook.

[a] Preferred classes of pipe.

[b] Other classes of pipe (background in grey shading).

The Norminal Size and Norminal Pressure

DN80-DN2000
Class 20- Class 100
Pressure/Gravity (EN598)
PN10-PN40
Note: also according to K7,K8,K9,K12

Lining and Coating

Lining:
(ordinary portland) cement mortar
high-alumina cement mortar

Coating:
Zinc rich (≥200g/㎡), with finishing layer Black bitumen, Blue epoxy, Red epoxy.
Metallic Zinc (≥200g/㎡), with finishing layer Black bitumen, Blue epoxy, Red epoxy.
Alloy Zinc and aluminum (≥400g/㎡), with finishing layer Black bitumen, Blue epoxy, Red epoxy.

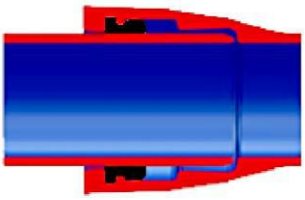
Note:
a. Lining and Coating Polyurethane(PU), 900μm, 700μm.
b. Lining epoxy ceramic, 1000μm.
c. Lining sulfate cement mortar
d. Epoxy resin sealing layer on cement mortar lining.
e. Bitumen sealing layer on cement mortar lining.
f. A supplement to the Zinc coating with finish layer. Polyethylene sleeve(PE).
g. Coating of the joint area: Epoxy coating, Polyurethane coating.

▶DI FITTING

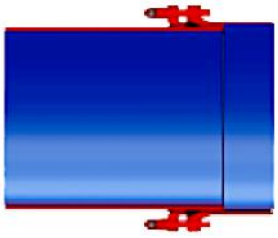
Standard: EN545, EN598, ISO2531, EN1092-2, ISO7005-2, EN197-1, EN196-1, ISO4179, ISO16132, ISO8179-1, ISO8179-2, ISO8180, EN14901, EN681-1, ISO4633, EN1514, EN ISO4016, EN ISO4034, EN ISO7091, and other Normative References.

Type and joints

1. T-type socket
   Push in flexible joint, non-restrained.
   Accessory: EPDM gasket

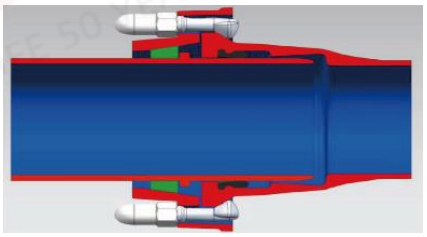


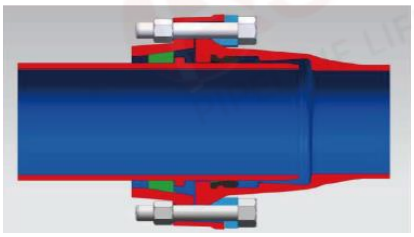
2. K-type socket
   Mechanical flexible joint, non-restrained.
   Accessory: EPDM gasket, Gland, bolts and nuts.



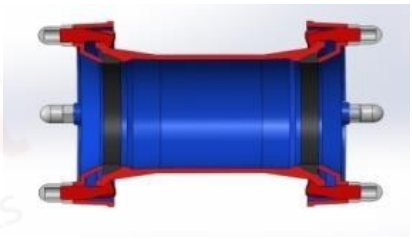
3. TF self-anchored (T-type socket with K edge, connect with spigot end with welding ring)
Push in Flexible joint, restrained.
Accessory: EPDM gasket, Gland, Locking ring, DI hooked bolts and nuts(≤DN1000).

Steel bolts and nuts(>DN1000), hooked locking block(>DN1000).

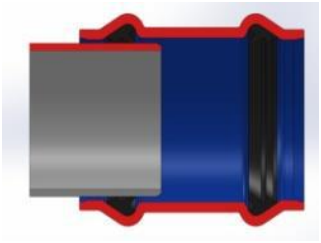




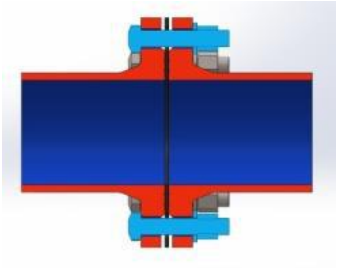
4. EX socket
   Mechanical flexible joint, non-restrained
   Accessory: EPDM, Gland, hooked bolts and nuts



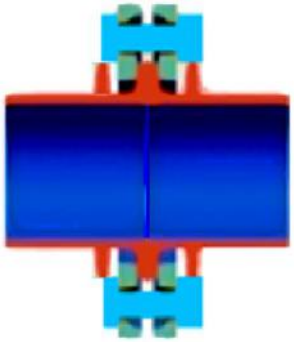
5. Socket for PVC/PE Pipe
   Push in flexible Joint, non-restrained.
   Accessory: EPDM.



6. Flange
   Accessory: EPDM, Bolts and nuts.



7. Loosing flange
   Accessory: EPDM, bolts and nuts.



The Norminal Size and Norminal Pressure

1. T-type socket fitting. DN40-DN2000, Class25-Class100
2. K-type socket fitting. DN40-DN2000, PFA 16Bar
3. TF self-anchored fitting. DN40-DN2000, Class25-Class100
4. EX fitting. DN40-DN600, PFA16Bar.
5. Socket fitting for PVC/PE Pipe. DN60-DN700(OD63-OD710), PFA16Bar.
6. Flange fitting, EPDM, Bolts and nuts. DN40-DN2000, PN10 PN16 PN25 PN40.
7.Loosing flange fitting, EPDM, bolts and nuts. DN40-DN1200, PN10 PN16 PN25

Lining and Coating

Lining:
(ordinary portland) cement mortar
High-alumina cement mortar
Fusion bonded epoxy(FBE), Blue, Red, Black.
Coating:
Zinc rich (≥220g/㎡), with finishing layer Black bitumen, Blue epoxy, Red epoxy.
Metallic Zinc (≥220g/㎡), with finishing layer Black bitumen, Blue epoxy, Red epoxy.
Alloy Zinc and aluminum (≥400g/㎡), with finishing layer Black bitumen, Blue epoxy, Red epoxy.
Fusion bonded epoxy(FBE), Blue, Red, Black.

▶DI FLANGE ADAPTOR
Flange joint and Socket Mechanical Flexible joint, DN40-DN2000, PN10 PN16.

▶DI/STEEL COUPLING
Socket Mechanical Flexible joint, OD63-OD2082, PFA 16BAR.

▶DI DISMANTLING JOINT
Flange joint and Mechanical joint, DN50-DN2000, PN10 PN16 PN25 PN40.

▶DI SADDLE with threaded outlet or flanged outlet
Flange joint or Thread joint, OD50-OD860, PN10 PN16 and PFA 10BAR 16BAR

▶FLANGED/THREADED RUBBER FLEXIBLE JOINT

Flanged: DN25-DN4000, PN2.5-PN40
Threaded: NPS1/2”-NPS2 1/2”, PFA 2.5BAR-10BAR

▶REPAIR CLAMP

OD18-OD1462, PFA32-PFA3

▶Test methods for technical requirements and preformence requirements.

“ASCENT” expect to receive your enquiry, will share detailed information.

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- 球铁闸阀，蝶阀，止回阀，排气阀，过滤器，控制阀，消防栓等;
- 球铁井盖，水篦子，水槽水篦子，水表箱，爬梯;
- 钢制管，管件;
- 钢制法兰，球铁法兰;
- 钢制闸阀，蝶阀，止回阀，球阀，截止阀等;
- 玛钢管件;
- 灰铁管，管件及配件;
- PE / HDPE / PVC-O.U.C.HI 热塑管/管件/阀门和接头;
- 水表，流量计;
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PIPELINE LIFE 50 YEARS

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