

CATALOGUE

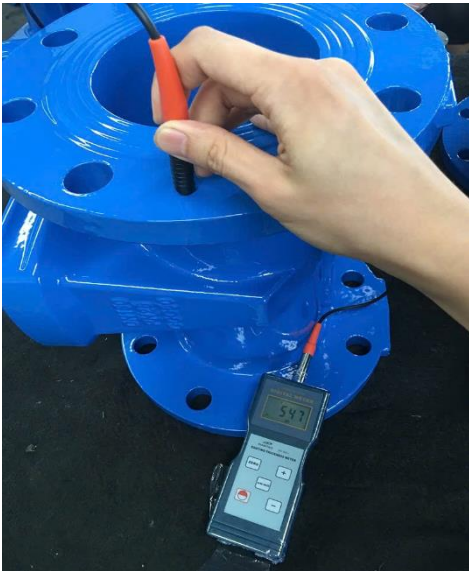
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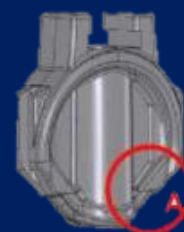
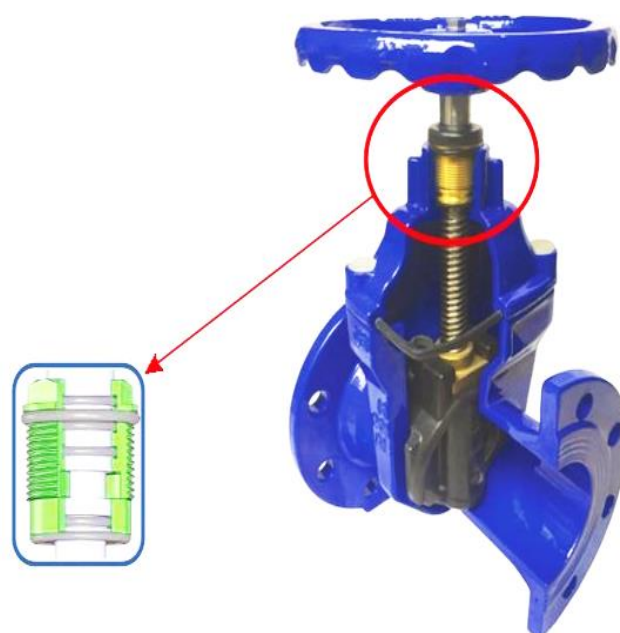


BS5163 - RESILENT SEATED GATE VALVE



- ▶ Design comply to EN1171 / EN1074 / BS5163
- ▶ Flanges are drilled to EN 1092-2 / BS4504
- ▶ Pressure Rate: PN10/16/25
- ▶ Test: Body test 1.5xPN, Seal test 1.1xPN
- ▶ Medium: Neutral water, drinking water, sewage.
- ▶ Rolled threads ensure smooth thread edges and low operating torques
- ▶ Bonnet bolts are in Galvanized carbon steel SS304 upon request.

- ▶ 4 o-ring on stem (total 6 o-rings in bonnet). the upper 3 o-rings can be replaced online under pressure when valve fully opened.
- ▶ Thrust washer - Brass material, to get more reliable strength and long service life when comparing to other factory's nylon material.
- ▶ Body/bonnet connection bonnet gasket fits into a recess in valve bonnet preventing it from being blow out by pressure surges.
- ▶ Wedge nut - made of copper alloy with lubricating ability providing optimum compatibility with S.S. stem.

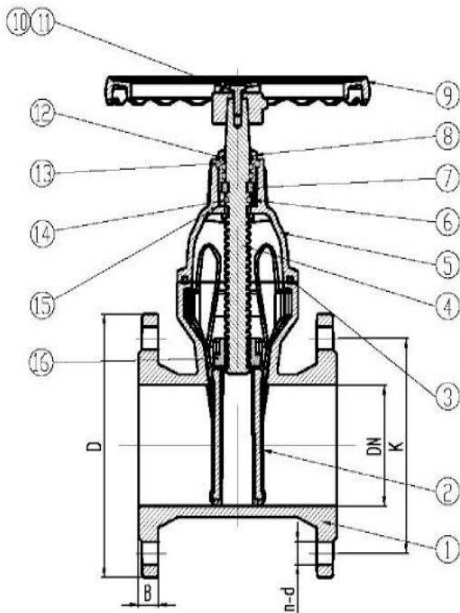


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|---|--|
| <ul style="list-style-type: none"> ▶ Bolts sealed with hot met. ▶ Lifting rings. ▶ Operation: Handwheel square cap A Gearbox, actuator. ▶ Manufacturing standard meets EN 1074, BS5163. ▶ Both inside & outside coated with epoxy resin powder. Standard color similar to RAL5005 other colors upon request. ▶ With rubber dust cover. ▶ O-ring bonnet gasket wraps. ▶ Completely free and full bore self clearing & low pressure loss. ▶ Clockwise closing (CWC) as standard. ▶ Sealing: Class A (zero leakage) ▶ 100% testing before delivery. | <ul style="list-style-type: none"> ▶ Liner sealing face - get better sealing & lower closing torque. ▶ Position "A": Most factories design is the same lever to the sealing face. While when the valve closed, the increasing inlet pressure will push the disc shift and press to the valve body, which will cut the disc rubber of position "A" during long term use. AUTA ware this design defect and innovate the current design to avoid such hurt, thus enlarge the disc service life. |
|---|--|

Design Features I Resilient Seat

DN50 - DN300

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5163.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Disc	EPDM+DI	BS EN 681 / BS EN 1563
3	Gasket	EPDM	BS EN 681
4	Stem	SUS420	BS EN 10088-3
5	Bonnet	DI	BS EN 1563
6	Trust Washer	Brass	BS 1400
7	Trust Sleeve	Brass	BS 1400
8	Gland	DI	BS EN 1563
9	Hand wheel / Cap	DI	BS EN 1563
10	Bolts	SUS304	BS EN 10088-3
11	Washers	SUS304	BS EN 10088-3
12	Dust Cover	EPDM	BS EN 681
13	O-Ring	EPDM	BS EN 681
14	O-Ring	EPDM	BS EN 681
15	O-Ring	EPDM	BS EN 681
16	Stem Nut	Brass	BS 1400

*Note: Handwheel or Cap option

Dimensions

Unit:mm

Size		Face to face dimension	D			K			n-d		
DN	Inch		PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	178	165	165	165	125	125	125	4-18	4-18	4-18
65	2.5"	190	185	185	185	145	145	145	4-18	4-18	4-18
80	3"	203	200	200	200	160	160	160	8-18	8-18	8-18
100	4"	229	220	220	235	180	180	190	8-18	8-18	8-22
125	5"	254	250	250	270	210	210	220	8-18	8-18	8-22
150	6"	267	285	285	300	240	240	250	8-22	8-22	8-28
200	8"	292	340	340	360	295	295	310	8-22	12-22	12-28
250	10"	330	395	405	425	350	355	370	12-22	12-28	12-31
300	12"	356	445	460	485	400	410	430	12-22	12-28	16-31

*Please note: Technical data provided is indicative only and may be subject to change without notice.

DN 350 - DN 1200

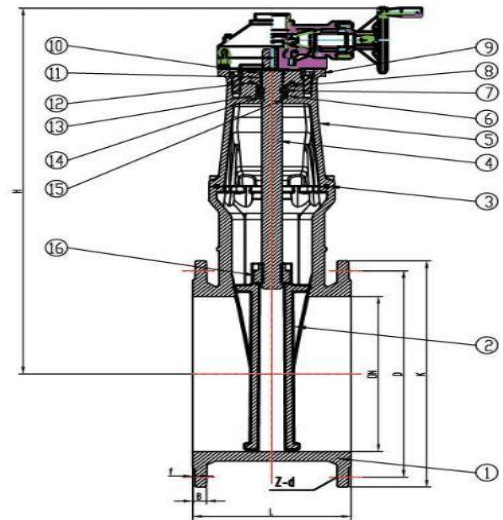
- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5163.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Disc	EPDM+DI	BS EN 681 / BS EN 1563
3	Gasket	EPDM	BS EN 681
4	Stem	SUS420	BS EN 10088-3
5	Bonnet	DI	BS EN 1563
6	Thrust Washer	Brass	BS 1400
7	Thrust Sleeve	Brass	BS 1400
8	Gland	DI	BS EN 1563
9	Hand wheel / Cap	DI	BS EN 1563
10	Bolts	SUS304	BS EN 10088-3
11	Washers	SUS304	BS EN 10088-3
12	Dust Cover	EPDM	BS EN 681
13	O-Ring	EPDM	BS EN 681
14	O-Ring	EPDM	BS EN 681
15	O-Ring	EPDM	BS EN 681
16	Stem Nut	Brass	BS 1400

*Note: Handwheel or Gearbox option



Dimensions

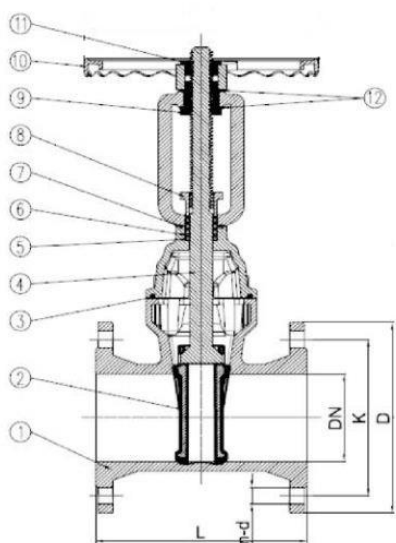
Unit:mm

Size		Face to face dimension	D		K		n-d	
DN	Inch		PN10	PN16	PN10	PN16	PN10	PN16
350	14"	381	505	520	460	470	16-22	16-28
400	16"	406	565	580	515	525	16-28	16-31
450	18"	432	615	640	565	585	20-28	20-31
500	20"	457	670	715	620	650	20-28	20-34
600	24"	508	780	840	725	770	20-31	20-37
700	28"	610	895	910	840	840	24-31	24-37
800	32"	660	1015	1025	950	950	24-31	24-40
900	36"	711	1116	1116	1050	1050	28-34	28-40
1000	40"	813	1230	1255	1160	1170	28-37	28-43
1200	44"	1015	1448	1477	1380	1390	32-43	32-48

*Please note: Technical data provided is indicative only and may be subject to change without notice.

DN50 - DN600

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5163.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating** by fusion bonded epoxy powder 250 micro thickness.



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Disc	EPDM+DI	BS EN 681 / BS EN 1563
3	Gasket	NBR	BS EN 2104
4	Stem	SUS420	BS EN 10088-3
5	O-Ring	NBR	BS EN 2104
6	Sealing Washer	POM	BS 1400
7	O-Ring	NBR	BS EN 2104
8	Gland	DI	BS EN 1563
9	Lower stem nut	Brass	BS 1400
10	Handwheel	DI	BS EN 1563
11	Upper Stem nut	Brass	BS 1400
12	Dust Cover	NBR	BS EN 2104

Dimensions

Unit:mm

Size		Face to face dimension	D			K			n-d		
DN	Inch		PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	178	165	165	165	125	125	125	4-18	4-18	4-18
65	2.5"	190	185	185	185	145	145	145	4-18	4-18	4-18
80	3"	203	200	200	200	160	160	160	8-18	8-18	8-18
100	4"	229	220	220	235	180	180	190	8-18	8-18	8-22
125	5"	254	250	250	270	210	210	220	8-18	8-18	8-22
150	6"	267	285	285	300	240	240	250	8-22	8-22	8-28
200	8"	292	340	340	360	295	295	310	8-22	12-22	12-28
250	10"	330	395	405	425	350	355	370	12-22	12-28	12-31
300	12"	356	445	460	485	400	410	430	12-22	12-28	16-31
350	14"	381	505	520	-	460	470	-	16-22	16-28	-
400	16"	406	565	580	-	515	525	-	16-28	16-31	-
450	18"	432	615	640	-	565	585	-	20-28	20-31	-
500	20"	457	670	715	-	620	650	-	20-28	20-34	-
600	24"	508	780	840	-	725	770	-	20-31	20-37	-

*Please note: Technical data provided is indicative only and may be subject to change without notice.

RISING STEM RESILIENT SEATED GATE VALVE OS&Y WITH SUPERVISOR SWITCH

Model: 1220H

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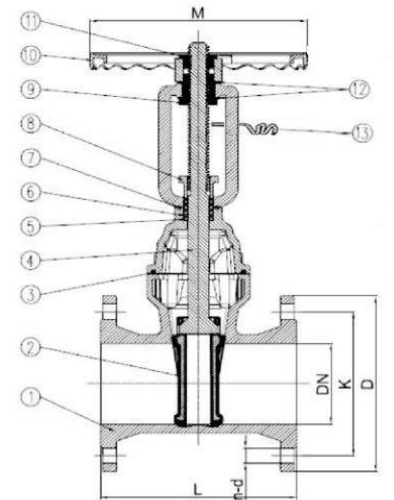
DN50 - DN600

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5163.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating** by fusion bonded epoxy powder 250 micro thickness.



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Disc	EPDM+DI	BS EN 681 / BS EN 1563
3	Gasket	NBR	BS EN 2104
4	Stem	SUS420	BS EN 10088-3
5	O-Ring	NBR	BS EN 2104
6	Sealing Washer	POM	BS 1400
7	O-Ring	NBR	BS EN 2104
8	Gland	DI	BS EN 1563
9	Lower stem nut	Brass	BS 1400
10	Handwheel	DI	BS EN 1563
11	Upper Stem nut	Brass	BS 1400
12	Dust Cover	NBR	BS EN 2104
13	Signal switch	---	---



Dimensions

Unit:mm

Size		Face to face dimension	D			K			n-d		
DN	Inch		PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	178	165	165	165	125	125	125	4-18	4-18	4-18
65	2.5"	190	185	185	185	145	145	145	4-18	4-18	4-18
80	3"	203	200	200	200	160	160	160	8-18	8-18	8-18
100	4"	229	220	220	235	180	180	190	8-18	8-18	8-22
125	5"	254	250	250	270	210	210	220	8-18	8-18	8-22
150	6"	267	285	285	300	240	240	250	8-22	8-22	8-28
200	8"	292	340	340	360	295	295	310	8-22	12-22	12-28
250	10"	330	395	405	425	350	355	370	12-22	12-28	12-31
300	12"	356	445	460	485	400	410	430	12-22	12-28	16-31
350	14"	381	505	520	-	460	470	-	16-22	16-28	-
400	16"	406	565	580	-	515	525	-	16-28	16-31	-
450	18"	432	615	640	-	565	585	-	20-28	20-31	-
500	20"	457	670	715	-	620	650	-	20-28	20-34	-
600	24"	508	780	840	-	725	770	-	20-31	20-37	-

*Please note: Technical data provided is indicative only and may be subject to change without notice.

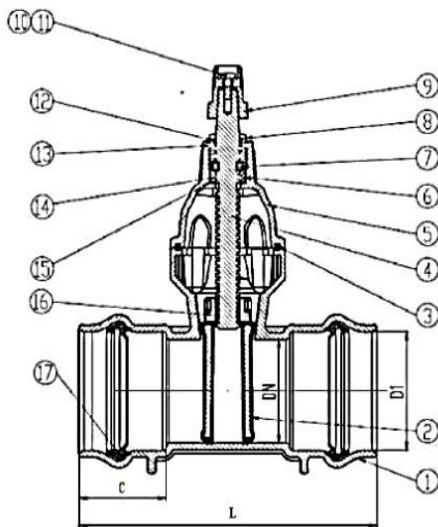
DN50 - DN300

- ▶ **Connection:** Socket.
- ▶ **Technical standards:** BS5163.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Disc	EPDM+DI	BS EN 681 / BS EN 1563
3	Bonnet Gasket	NBR	BS EN 2104
4	Stem	SUS420	BS EN 10088-3
5	Bonnet	DI	BS EN 1563
6	Thrust Washer	Brass	BS 1400
7	Thrust Sleeve	Brass	BS 1400
8	Gland	DI	BS EN 1563
9	Hand wheel	DI	BS EN 1563
10	Bolts	SUS304	BS EN 10088-3
11	Washers	SUS304	BS EN 10088-3
12	Dust Cover	NBR	BS EN 2104
13	O-Ring	NBR	BS EN 2104
14	O-Ring	NBR	BS EN 2104
15	O-Ring	NBR	BS EN 2104
16	Stem Nut	Brass	BS 1400
17	O-Ring	NBR	BS EN 2104



Dimensions

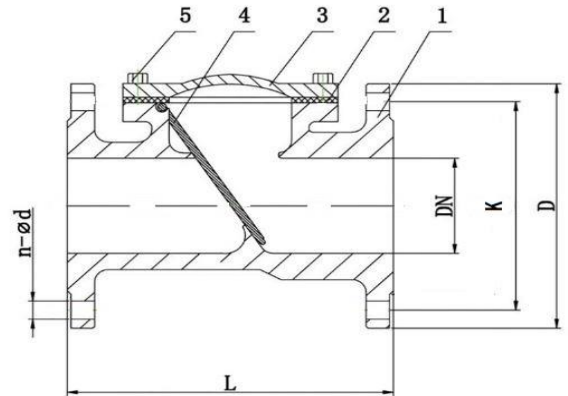
Unit:mm

Size		L Face to face dimension	D1 PVC Tube diameter	C
DN	Inch			
50	2"	250	φ60	77
		250	φ63	77
65	2.5"	270	φ75	80
80	3"	280	φ85	84
		280	φ90	84
100	4"	300	φ110	88
125	5"	325	φ125	91
150	6"	350	φ160	94
200	8"	400	φ200	100
		400	φ225	100
250	10"	450	φ250	125
300	12"	500	φ315	140

*Please note: Technical data provided is indicative only and may be subject to change without notice.

DN50 - DN1000

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5153.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Gasket	EPDM	BS EN 681
3	Cap	DI	BS EN 1563
4	Disc	DI+EPDM	BS EN 1563/ BS EN 681
5	Bolt	SUS304	BS EN 10088-3



Dimensions

Unit:mm

Size		L Face to face dimension	D			K			n-d		
DN	Inch		PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	203	165	165	165	125	125	125	4-18	4-18	4-18
65	2.5"	216	185	185	185	145	145	145	4-18	4-18	4-18
80	3"	241	200	200	200	160	160	160	8-18	8-18	8-18
100	4"	292	220	220	235	180	180	190	8-18	8-18	8-22
125	5"	330	250	250	270	210	210	220	8-18	8-18	8-22
150	6"	356	285	285	300	240	240	250	8-22	8-22	8-28
200	8"	495	340	340	360	295	295	310	8-22	12-22	12-28
250	10"	622	395	405	425	350	355	370	12-22	12-28	12-31
300	12"	698	445	460	485	400	410	430	12-22	12-28	16-31
350	14"	787	505	520	-	460	470	-	16-22	16-28	-
400	16"	914	565	580	-	515	525	-	16-28	16-31	-
450	18"	965	615	640	-	565	585	-	20-28	20-31	-
500	20"	1067	670	715	-	620	650	-	20-28	20-34	-
600	24"	1219	780	840	-	725	770	-	20-31	20-37	-
700	28"	1295	895	910	-	840	840	-	24-31	24-37	-
800	32"	1448	1015	1025	-	950	950	-	24-31	24-40	-
900	36"	-	1116	1116	-	1050	1050	-	28-34	28-40	-
1000	40"	-	1230	1255	-	1160	1170	-	28-37	28-43	-

*Please note: Technical data provided is indicative only and may be subject to change without notice.

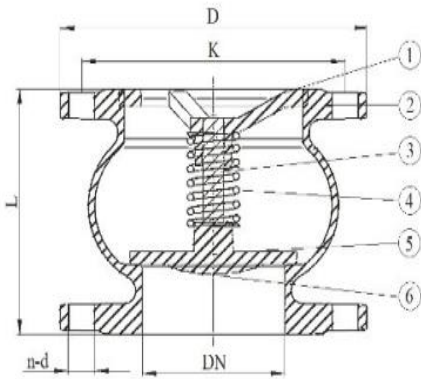
DN50 - DN300

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5153.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Ring	DI	BS EN 1563
2	Body	DI	BS EN 1563
3	Stem	Brass	BS 1400
4	Spring	SUS304	BS EN 10088-3
5	Seat	DI	BS EN 1563
6	Seat Cover	EPDM	BS EN 681



Dimensions

Unit:mm

Size		L Face to face dimension	D			K			n-d		
DN	Inch		PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	120	165	165	165	125	125	125	4-18	4-18	4-18
65	2.5"	130	185	185	185	145	145	145	4-18	4-18	4-18
80	3"	150	200	200	200	160	160	160	8-18	8-18	8-18
100	4"	162	220	220	235	180	180	190	8-18	8-18	8-22
125	5"	190	250	250	270	210	210	220	8-18	8-18	8-22
150	6"	208	285	285	300	240	240	250	8-22	8-22	8-28
200	8"	255	340	340	360	295	295	310	8-22	12-22	12-28
250	10"	280	395	405	425	350	355	370	12-22	12-28	12-31
300	12"	310	445	460	485	400	410	430	12-22	12-28	16-31
350	14"	390	505	520	-	460	470	-	16-22	16-28	-
400	16"	475	565	580	-	515	525	-	16-28	16-31	-

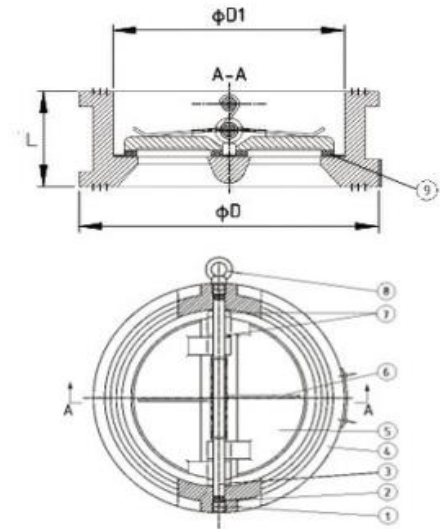
*Please note: Technical data provided is indicative only and may be subject to change without notice.

DN50 - DN700

- **Connection:** Flanged to EN 1092-2, BS4504.
- **Technical standards:** BS5153.
- **Working Pressure:** PN10/PN16/PN25.
- **Temperature range:** 0°C - 80°C.
- **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**

Parts

Item	Part name	Material	Standard Ref.
1	Bolt	SUS304	BS EN 10088-3
2	Sealing	NBR	BS EN 2104
3	Stem	SUS304	BS EN 10088-3
4	Body	DI	BS EN 1563
5	Disc	SUS304	BS EN 10088-3
6	Spring	SUS304	BS EN 10088-3
7	Washer	EPDM	BS EN 681
8	Eye Bolt	SUS304	BS EN 10088-3
9	Seat	EPDM	BS EN 681



Dimensions

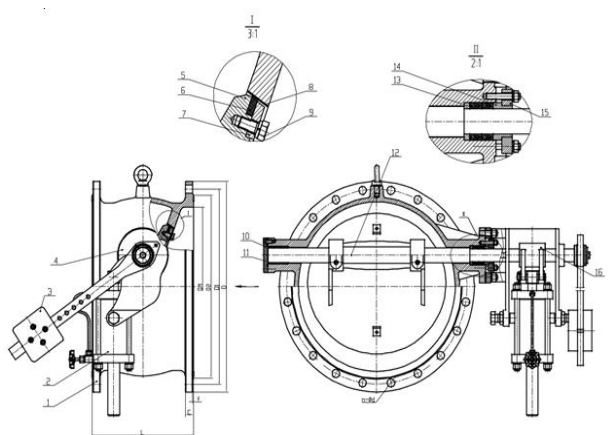
Unit:mm

Size		L Face to face dimension	φD			φD1		
DN	Inch		PN10	PN16	PN25	PN10	PN16	PN25
50	2"	43	107	107	107	65	65	65
65	2.5"	46	127	127	127	80	80	80
80	3"	64	142	142	142	94	94	94
100	4"	64	162	162	162	117	117	117
125	5"	70	192	192	192	145	145	145
150	6"	76	218	218	218	170	170	170
200	8"	89	273	273	273	224	224	224
250	10"	114	329	329	329	265	265	265
300	12"	114	384	384	384	310	310	310
350	14"	125	444	444	444	360	360	360
400	16"	140	495	495	495	410	410	410
450	18"	152	555	555	555	450	450	450
500	20"	152	617	617	617	505	505	505
600	24"	178	734	734	734	625	625	625
700	28"	229	804	804	804	720	720	720

*Please note: Technical data provided is indicative only and may be subject to change without notice.

DN50 - DN500

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5153.
- ▶ **Working Pressure:** PN10/PN16
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Hydraulic	-	-
3	Counter weight	DI	BS EN 1563
4+16	Yoke/Crank	WCB	BS EN10025
5	Disc	DI	BS EN 1563
6+13	Sealing/ packing	NBR	BS EN 2104
7+10	Disc press/cap	Q235A	BS 9701
8 +11	Sealing/bearing	Brass	EN 12164
9	Bolt	SUS304	BS EN 10088-3
12	Stem	SUS420	BS EN 10088-3
14	Bushing	SUS304	BS EN 10088-3
15	Gland	SUS304	BS EN 10088-3

Dimensions

Unit:mm

n-d	L	C	D		D1		D2		n-d	
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	140	19	165	165	125	125	99	99	4-18	4-19
65	150	19	185	185	145	145	119	119	4-18	4-19
80	160	19	200	200	160	160	133	133	8-18	8-19
100	170	19	220	220	180	180	154	154	8-18	8-19
125	190	19	250	250	210	210	184	184	8-19	8-19
150	210	19	285	285	240	240	210	210	8-23	8-23
200	230	20	340	340	295	295	265	265	8-23	12-23
250	250	22	407	407	350	355	320	320	12-23	12-28
300	270	25	462	462	400	410	378	378	12-23	12-28
350	290	26.5	522	522	460	470	438	438	16-23	16-28
400	310	28	583	583	515	525	490	490	16-28	16-31
450	340	30	642	642	565	585	550	550	20-28	20-31
500	380	32	672	715	620	650	585	610	20-28	20-34

*Please note: Technical data provided is indicative only and may be subject to change without notice.

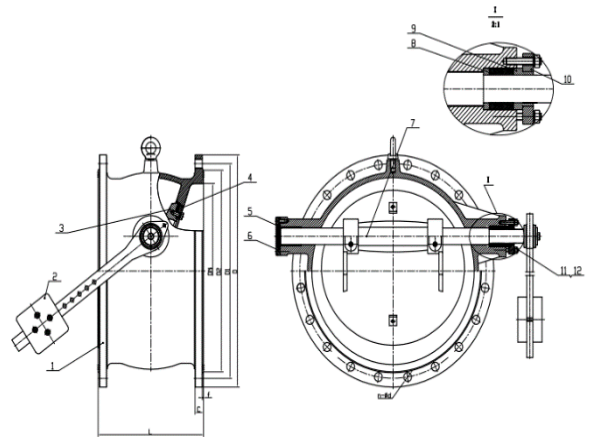
DN50 - DN500

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5153.
- ▶ **Working Pressure:** PN10/PN16
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Lever	Q235A	BS 9701
3	Disc	DI	BS EN 1563
4	Sealing	NBR	BS EN 2104
5	Bearing	Brass	EN 12164
6	Cap	SUS304	BS EN 10088-3
7	Stem	SUS420	BS EN 10088-3
8	Packing	NBR	BS EN 2104
9	Bushing	SUS304	BS EN 10088-3
10	Gland	SUS304	BS EN 10088-3
11	Bolt	SUS304	BS EN 10088-3
12	Nut	SUS304	BS EN 10088-3



Dimensions

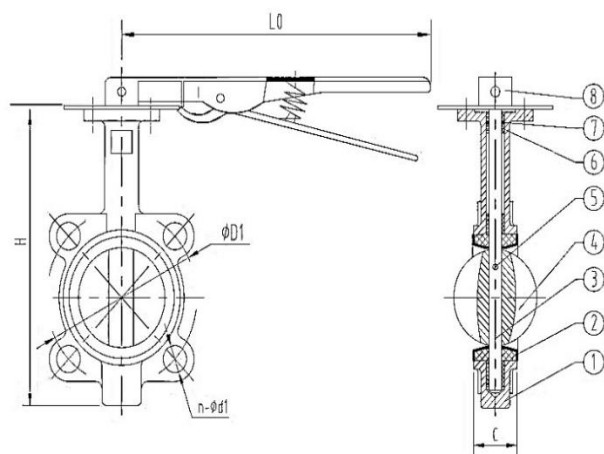
Unit:mm

DN	L	C	D		D1		D2		n-d	
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16
50	140	19	165	165	125	125	99	99	4-19	4-19
65	150	19	185	185	145	145	119	119	4-19	4-19
80	160	19	200	200	160	160	133	133	8-19	8-19
100	170	19	220	220	180	180	154	154	8-19	8-19
125	190	19	250	250	210	210	184	184	8-19	8-19
150	210	19	285	285	240	240	210	210	8-23	8-23
200	230	20	340	340	295	295	265	265	8-23	12-23
250	250	22	407	407	350	355	320	320	12-23	12-28
300	270	25	462	462	400	410	378	378	12-23	12-28
350	290	26.5	522	522	460	470	438	438	16-23	16-28
400	310	28	583	583	515	525	490	490	16-28	16-31
450	340	30	642	642	565	585	550	550	20-28	20-31
500	380	32	672	715	620	650	585	610	20-28	20-34

*Please note: Technical data provided is indicative only and may be subject to change without notice.

DN50 - DN600

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5155.
- ▶ **Working Pressure:** PN10/PN16
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Seat	EPDM	BS EN 681
3	stem	SUS420	BS EN 10088-3
4	Disc	SUS304	BS EN 10088-3
5	Pin	SUS304	BS EN 10088-3
6	Bushing	EPDM	BS EN 681
7	O-Ring	PTFE	BS EN 13000-2
8	Lever	Q235A	BS 9701

Dimensions

Unit:mm

Size		H	L0	C			D1			n-d1		
DN	Inch			PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	191	270	42	42	43	125	125	125	4-18	4-18	4-18
65	2.5"	214	270	45	45	46	145	145	145	4-18	4-18	4-18
80	3"	238	270	46	46	46	160	160	160	8-18	8-18	8-18
100	4"	270	270	52.1	52.1	52.1	180	180	190	8-18	8-18	8-22
125	5"	297	270	54.4	54.4	56	210	210	220	8-18	8-18	8-22
150	6"	328	270	56	56	56	240	240	250	8-22	8-22	8-28
200	8"	405	360	60.6	60.6	60.6	295	295	310	8-22	12-22	12-28
250	10"	467	500	65.6	65.6	68	350	355	370	12-22	12-28	12-31
300	12"	540	500	76.9	76.9	78	400	410	430	12-22	12-28	16-31
350	14"	600	500	79	79	79	460	470	-	16-22	16-28	-
400	16"	704	500	85.7	85.7	85.7	515	525	-	16-28	16-31	-
450	18"	748	550	104.6	104.6	104.6	565	585	-	20-28	20-31	-
500	20"	828	550	130.3	130.3	130.3	620	650	-	20-28	20-34	-
600	24"	951	550	151.4	151.4	151.4	725	770	-	20-31	20-37	-

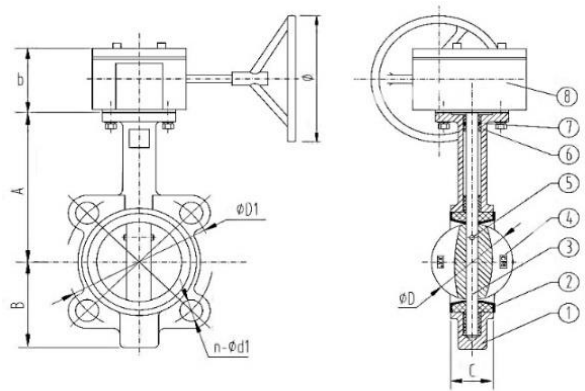
*Please note: Technical data provided is indicative only and may be subject to change without notice.

DN50 - DN800

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5155.
- ▶ **Working Pressure:** PN10/PN16
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**

Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Seat	EPDM	BS EN 681
3	stem	SUS420	BS EN 10088-3
4	Disc	SUS304	BS EN 10088-3
5	Pin	SUS304	BS EN 10088-3
6	Bushing	EPDM	BS EN 681
7	O-Ring	PTFE	BS EN 13000-2
8	Wormgear	Components	---



Dimensions

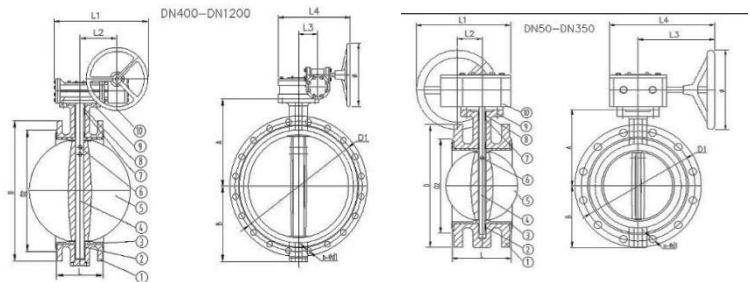
Unit:mm

Size		A	B	b	φ	D	C			D1			n-d1		
DN	Inch						PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	127	64	54	160	52.6	42	42	43	125	125	125	4-18	4-18	4-18
65	2.5"	138	76	54	160	64.5	45	45	46	145	145	145	4-18	4-18	4-18
80	3"	146	92	54	160	78.8	46	46	46	160	160	160	8-18	8-18	8-18
100	4"	162	106	54	160	104	52.1	52.1	52.1	180	180	190	8-18	8-18	8-22
125	5"	117	118	54	160	123.3	54.4	54.4	56	210	210	220	8-18	8-18	8-22
150	6"	194	133	54	160	155.6	56	56	56	240	240	250	8-22	8-22	8-28
200	8"	240	167	71	270	202.5	60.6	60.6	60.6	295	295	310	8-22	12-22	12-28
250	10"	263	204	71	270	250.5	65.6	65.6	68	350	355	370	12-22	12-28	12-31
300	12"	300	240	71	270	301.6	76.9	76.9	78	400	410	430	12-22	12-28	16-31
350	14"	340	260	82	270	351.5	79	79	79	460	470	-	16-22	16-28	-
400	16"	400	304	182	275	400.5	85.7	85.7	85.7	515	525	-	16-28	16-31	-
450	18"	411	337	182	275	452	104.6	104.6	104.6	565	585	-	20-28	20-31	-
500	20"	460	368	182	275	501.5	130.3	130.3	130.3	620	650	-	20-28	20-34	-
600	24"	523	428	202	380	602	151.4	151.4	151.4	725	770	-	20-31	20-37	-
700	28"	560	510	224	380	701	163	163	163	840	840	-	24-31	24-37	-
800	32"	635	585	224	380	802	179	179	179	950	950	-	24-31	24-40	-

*Please note: Technical data provided is indicative only and may be subject to change without notice.

DN50 - DN1200

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5155.
- ▶ **Working Pressure:** PN10/PN16
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Bushing	PTFE	BS EN 13000-2
3	Seat	EPDM	BS EN 681
4	Stem	SUS420	BS EN 10088-3
5	Disc	SUS304	BS EN 10088-3
6	Pin	SUS304	BS EN 10088-3
7	Bushing	PTFE	BS EN 13000-2
8	O-Ring	NBR	BS EN 2104
9	Bolt	SUS304	BS EN 10088-3
10	Gear	Components	---

Dimensions

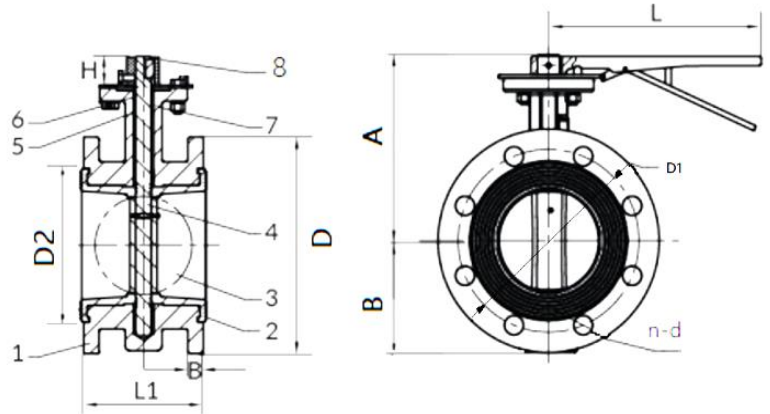
Unit:mm

Size		A	B	L	L1	L2	L3	L4	φ	D			D1			D2			n-d1		
DN	Inch									PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	130	83	108	178	45	117	167	160	165	165	165	125	125	125	102	102	102	4-18	4-18	4-18
65	2.5"	140	93	112	178	45	117	167	160	185	185	185	145	145	145	122	122	122	4-18	4-18	4-18
80	3"	149	100	114	178	45	117	167	160	200	200	200	160	160	160	138	138	138	8-18	8-18	8-18
100	4"	156	110	127	178	45	117	167	160	220	220	235	180	180	190	162	162	162	8-18	8-18	8-22
125	5"	177	125	140	178	45	117	167	160	250	250	270	210	210	220	188	188	188	8-18	8-18	8-22
150	6"	200	143	140	178	45	117	167	160	285	285	300	240	240	250	212	212	218	8-22	8-22	8-28
200	8"	225	170	152	261	58	170	236	270	340	340	360	295	295	310	268	268	278	8-22	12-22	12-28
250	10"	280	203	165	261	58	170	236	270	395	405	425	350	355	370	320	320	335	12-22	12-28	12-31
300	12"	309	230	178	275	70	175	250	270	445	460	485	400	410	430	370	378	395	12-22	12-28	16-31
350	14"	325	260	190	275	70	175	250	270	505	520	555	460	470	490	430	438	450	16-22	16-28	13-34
400	16"	371	300	216	397	145	96	345	275	565	580	620	515	525	550	482	490	505	16-28	16-31	16-37
450	18"	392	330	222	397	145	96	345	275	615	640	670	565	585	600	532	550	555	20-28	20-31	20-37
500	20"	431	378	229	397	145	96	345	275	670	715	730	620	650	660	585	610	615	20-28	20-34	20-37
600	24"	536	435	267	522	192	128	405	380	780	840	845	725	770	770	685	725	720	20-31	20-37	20-40
700	28"	560	478	292	574	228	140	501	380	895	910	960	840	840	875	800	795	820	24-31	24-37	24-43
800	32"	620	529	318	574	228	140	501	380	1015	1025	1085	950	950	990	905	900	930	24-31	24-40	24-48
900	36"	691	584	330	638	243	162	547	380	1116	1116	1185	1050	1050	1090	1005	1000	1030	28-34	28-40	28-48
1000	40"	735	657	410	638	243	162	547	380	1230	1255	1320	1160	1170	1210	1110	1115	1140	28-37	28-43	28-56
1200	44"	917	799	470	755	302	236	656	430	1455	1485	1530	1380	1390	1420	1330	1330	1350	32-43	32-48	32-56

*Please Note: technical data provided in this brochure is indicative only and may be subject to change without prior notice

DN50 - DN300

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5155.
- ▶ **Working Pressure:** PN10/PN16
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Seat	EPDM	BS EN 681
3	Disc	SUS304	BS EN 10088-3
4	Stem	SUS420	BS EN 10088-3
5	O - Ring	EPDM	BS EN 681
6	Pin	SUS304	BS EN 10088-3
7	Bushing	PTFE	BS EN 2104
8	Lever	Q235A	BS 9701



Dimensions

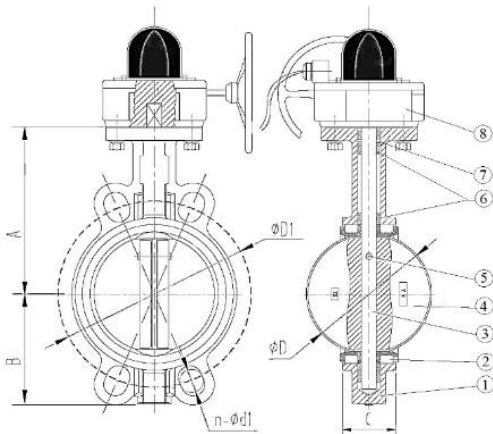
Unit:mm

Size		A	B	L	L1	H	D			D1			D2			n-d1		
DN	Inch						PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	130	83	270	108	32	165	165	165	125	125	125	102	102	102	4-18	4-18	4-18
65	2.5"	140	93	270	112	32	185	185	185	145	145	145	122	122	122	4-18	4-18	4-18
80	3"	149	100	270	114	32	200	200	200	160	160	160	138	138	138	8-18	8-18	8-18
100	4"	156	110	270	127	32	220	220	235	180	180	190	162	162	162	8-18	8-18	8-22
125	5"	177	125	270	140	32	250	250	270	210	210	220	188	188	188	8-18	8-18	8-22
150	6"	200	143	270	140	32	285	285	300	240	240	250	212	212	218	8-22	8-22	8-28
200	8"	225	170	360	152	32	340	340	360	295	295	310	268	268	278	8-22	12-22	12-28
250	10"	280	203	500	165	45	395	405	425	350	355	370	320	320	335	12-22	12-28	12-31
300	12"	309	230	500	178	45	445	460	485	400	410	430	370	378	395	12-22	12-28	16-31

*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice

DN50 - DN300

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5155.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Seat	EPDM	BS EN 681
3	stem	SUS420	BS EN 10088-3
4	Disc	SUS304	BS EN 10088-3
5	Pin	SUS304	BS EN 10088-3
6	Bushing	EPDM	BS EN 681
7	O-Ring	PTFE	BS EN 13000-2
8	Wormgear	Components	---
9	Signal Switch	---	---

Dimensions

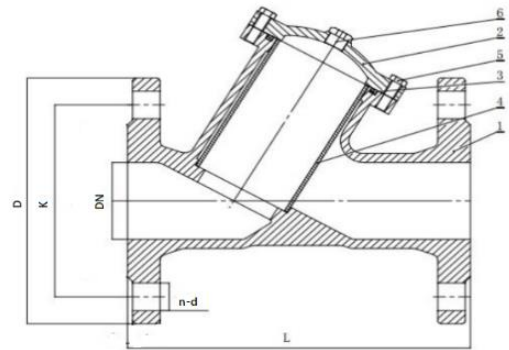
Unit:mm

Size		A	B	D	C			D1			n-d1		
DN	Inch				PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	127	64.5	52.6	42	42	43	125	125	125	4-18	4-18	4-18
65	2.5"	138.3	76.2	64.5	45	45	46	145	145	145	4-18	4-18	4-18
80	3"	146.3	92	78.8	46	46	46	160	160	160	8-18	8-18	8-18
100	4"	162.5	106.5	104	52.1	52.1	52.1	180	180	190	8-18	8-18	8-22
125	5"	117.9	118.5	123.3	54.4	54.4	56	210	210	220	8-18	8-18	8-22
150	6"	194.6	133.4	155.6	56	56	56	240	240	250	8-22	8-22	8-28
200	8"	240.6	167.4	202.5	60.6	60.6	60.6	295	295	310	8-22	12-22	12-28
250	10"	263.8	204.2	250.5	65.6	65.6	68	350	355	370	12-22	12-28	12-31
300	12"	301.7	240.3	301.6	76.9	76.9	78	400	410	430	12-22	12-28	16-31

*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice

DN50 - DN600

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5154.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Cap	DI	BS EN 1563
3	Sealling	EPDM	BS EN 681
4	Screen	SUS304	BS EN 10088-3
5	Bolt	SUS304	BS EN 10088-3
6	Plug	SUS304	BS EN 10088-3



Dimensions

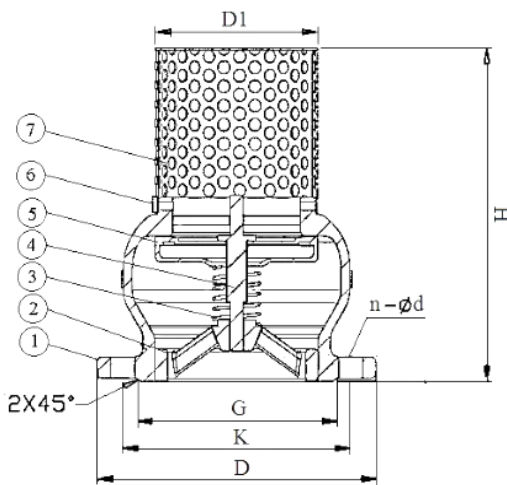
Unit:mm

Size		Face to face dimension	K			D			n-d		
DN	Inch		PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	230	125	125	125	165	165	165	4-18	4-18	4-18
65	2.5"	290	145	145	145	185	185	185	4-18	4-18	4-18
80	3"	310	160	160	160	200	200	200	8-18	8-18	8-18
100	4"	350	180	180	190	220	220	235	8-18	8-18	8-22
125	5"	400	210	210	220	250	250	270	8-18	8-18	8-22
150	6"	480	240	240	250	285	285	300	8-22	8-22	8-28
200	8"	600	295	295	310	340	340	360	8-22	12-22	12-28
250	10"	730	350	355	370	395	405	425	12-22	12-28	12-31
300	12"	850	400	410	430	445	460	485	12-22	12-28	16-31
350	14"	980	460	470	-	505	520	-	16-22	16-28	-
400	16"	1100	515	525	-	565	580	-	16-28	16-31	-
450	18"	1200	565	585	-	615	640	-	20-28	20-31	-
500	20"	1250	620	650	-	670	715	-	20-28	20-34	-
600	24"	1450	725	770	-	780	840	-	20-31	20-37	-

*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice

DN50 - DN300

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS5153.
- ▶ **Working Pressure:** PN10/PN16
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Base	DI	BS EN 1563
3	Spring	SUS304	BS EN 10088-3
4	Stem	SUS304	BS EN 10088-3
5	Disc	DI + EPDM	BS EN 1563/ BS EN 681
6	Bolt	SUS304	BS EN 10088-3
7	Screen	SUS304	BS EN 10088-3

Dimensions

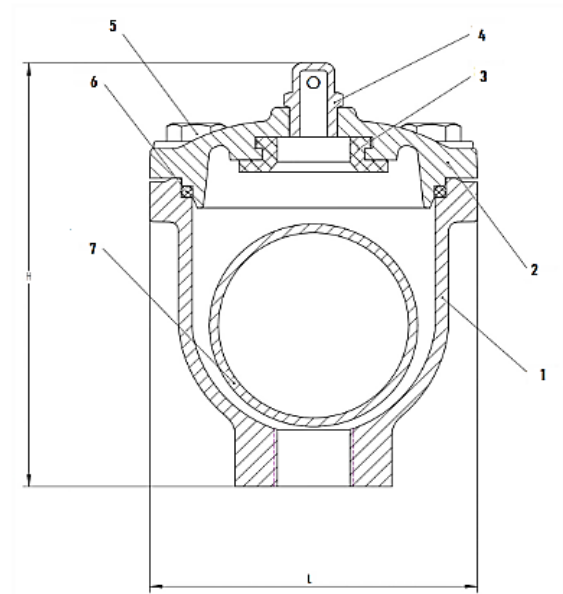
Unit:mm

Size		H	D1	G	K			D			n-d1		
DN	Inch				PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	260	75	102	125	125	125	165	165	165	4-18	4-18	4-18
65	2.5"	270	90	122	145	145	145	185	185	185	4-18	4-18	4-18
80	3"	300	105	138	160	160	160	200	200	200	8-18	8-18	8-18
100	4"	310	125	158	180	180	190	220	220	235	8-18	8-18	8-22
125	5"	345	153	188	210	210	220	250	250	270	8-18	8-18	8-22
150	6"	390	177	212	240	240	250	285	285	300	8-22	8-22	8-28
200	8"	460	226	268	295	295	310	340	340	360	8-22	12-22	12-28
250	10"	480	277	320	350	355	370	395	405	425	12-22	12-28	12-31
300	12"	510	329	378	400	410	430	445	460	485	12-22	12-28	16-31
350	14"	522	388	430	460	470	-	505	520	-	16-22	16-28	-
400	16"	530	427	482	515	525	-	565	580	-	16-28	16-31	-
450	18"	560	480	532	565	585	-	615	640	-	20-28	20-31	-
500	20"	626	523	585	620	650	-	670	715	-	20-28	20-34	-
600	24"	731	628	685	725	770	-	780	840	-	20-31	20-37	-

*Please Note: technical data provided in this brochure is indicative only and may be subject to change without prior notice

DN15 - DN50

- ▶ **Connection:** Flanged to DN 1092-2, BS4504.
- ▶ **Technical standards:** BS EN 1074-4.
- ▶ **Working Pressure:** PN10/PN16
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Cap	DI	BS EN 1563
3	Sealling	EPDM	BS EN 681
4	Air nut	SUS304	BS EN 10088-3
5	Bolt	SUS304	BS EN 10088-3
6	O-ring	EPDM	BS EN 681
7	Ball	ABS	

Dimensions

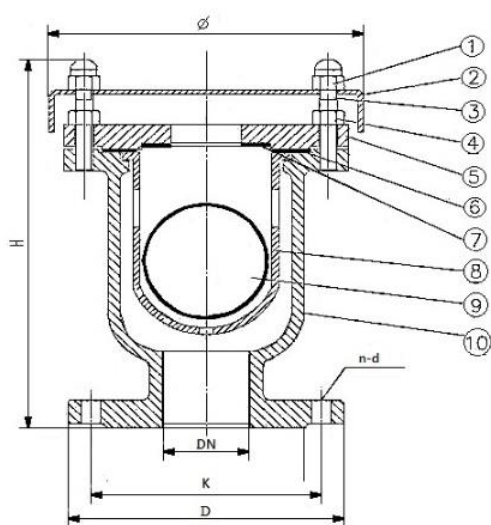
Unit:mm

Size		L	H
DN	Inch		
25	1"	110	145
32	1.1/4"	110	145
40	1.1/2"	110	145
50	2"	118	152

*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice

DN50 - DN300

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS EN 1074-4.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Bolt	SUS304	BS EN 10088-3
2	Protective	DI	BS EN 1563
3	Stud	SUS304	BS EN 10088-3
4	Bolt	SUS304	BS EN 10088-3
5	Bonnet	DI	BS EN 1563
6	Sealing Ring	NBR	BS EN 2104
7	Shim	NBR	BS EN 2104
8	Protective barrel	DI	BS EN 1563
9	Ball Float	ABS	ISO 2580
10	Body	DI	BS EN 1563

Dimensions

Unit:mm

Size		H	φ	K			D			n-d		
DN	Inch			PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	236	175	125	125	125	165	165	165	4-18	4-18	4-18
65	2.5"	236	185	145	145	145	185	185	185	4-18	4-18	4-18
80	3"	244	215	160	160	160	200	200	200	8-18	8-18	8-18
100	4"	248	230	180	180	190	220	220	235	8-18	8-18	8-22
125	5"	248	260	210	210	220	250	250	270	8-18	8-18	8-22
150	6"	284	270	240	240	250	285	285	300	8-22	8-22	8-28
200	8"	324	310	295	295	310	340	340	360	8-22	12-22	12-28
250	10"	385	350	350	355	370	395	405	425	12-22	12-28	12-31
300	12"	440	400	400	410	430	445	460	485	12-22	12-28	16-31

*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice

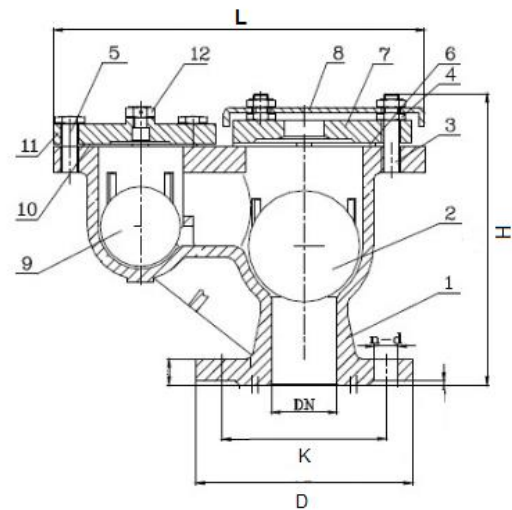
DN50 - DN300

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS EN 1074-4.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Float Ball	ABS	ISO 2580
3	Bolt	SUS304	BS EN 10088-3
4	Bolt	SUS304	BS EN 10088-3
5	Bolt	SUS304	BS EN 10088-3
6	Sealing Ring	NBR	BS EN 2104
7	Bonnet	DI	BS EN 1563
8	Protective	DI	BS EN 1563
9	Float Ball	ABS	ISO 2580
10	Sealing Ring	NBR	BS EN 2104
11	Bonnet	DI	BS EN 1563
12	Air nut	SUS304	BS EN 10088-3



Dimensions

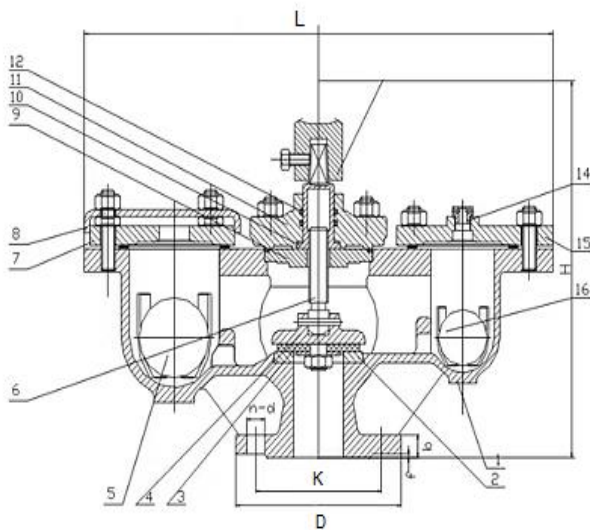
Unit:mm

Size		H	L	K			D			n-d		
DN	Inch			PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	214	273	125	125	125	165	165	165	4-18	4-18	4-18
65	2.5"	214	273	145	145	145	185	185	185	4-18	4-18	4-18
80	3"	244	283	160	160	160	200	200	200	8-18	8-18	8-18
100	4"	270	302	180	180	190	220	220	235	8-18	8-18	8-22
125	5"	323	353	210	210	220	250	250	270	8-18	8-18	8-22
150	6"	323	353	240	240	250	285	285	300	8-22	8-22	8-28
200	8"	401	433	295	295	310	340	340	360	8-22	12-22	12-28
250	10"	450	491	350	355	370	395	405	425	12-22	12-28	12-31
300	12"	500	523	400	410	430	445	460	485	12-22	12-28	16-31

*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice

DN50 - DN300

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS EN 1074-4.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Valve seat of	SUS304	BS EN 10088-3
3	Valve seat of disc	NBR	BS EN 2104
4	Disc	DI	BS EN 1563
5	Large Ball	ABS	ISO 2580
6	Spind	SUS304	BS EN 10088-3
7	Large cover	DI	BS EN 1563
8	Large up cover	DI	BS EN 1563
9	Support disc	DI	BS EN 1563
10	Spindle nuts	Brass	BS EN 12163
11	Middle cover	DI	BS EN 1563
12	O - Ring	NBR	BS EN 2104
13	Captop	DI	BS EN 1563
14	Air release nuts	Brass	BS EN 12163
15	Small cover	DI	BS EN 1563
16	Small ball	ABS	ISO 2580

Dimensions

Unit:mm

Size		H	L	K			D			n-d		
DN	Inch			PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	415	184	125	125	125	165	165	165	4-18	4-18	4-18
65	2.5"	415	184	145	145	145	185	185	185	4-18	4-18	4-18
80	3"	425	200	160	160	160	200	200	200	8-18	8-18	8-18
100	4"	480	236	180	180	190	220	220	235	8-18	8-18	8-22
125	5"	500	240	210	210	220	250	250	270	8-18	8-18	8-22
150	6"	515	246	240	240	250	285	285	300	8-22	8-22	8-28
200	8"	615	310	295	295	310	340	340	360	8-22	12-22	12-28
250	10"	685	375	350	355	370	395	405	425	12-22	12-28	12-31
300	12"	735	445	400	410	430	445	460	485	12-22	12-28	16-31

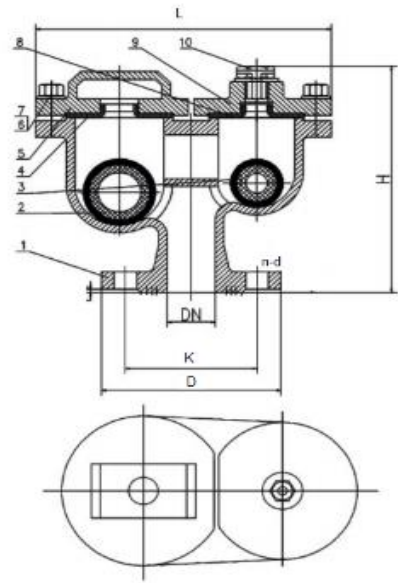
*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice

DN50 - DN300

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS EN 1074-4.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**

Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Float Ball	ABS	ISO 2580
3	Bolt	SUS304	BS EN 10088-3
4	Bolt	SUS304	BS EN 10088-3
5	Bolt	SUS304	BS EN 10088-3
6	Sealing Ring	NBR	BS EN 2104
7	Bonnet	DI	BS EN 1563
8	Protective	DI	BS EN 1563
9	Float Ball	ABS	ISO 2580
10	Sealing Ring	NBR	BS EN 2104
11	Bonnet	DI	BS EN 1563
12	Air nut	SUS304	BS EN 10088-3



Dimensions

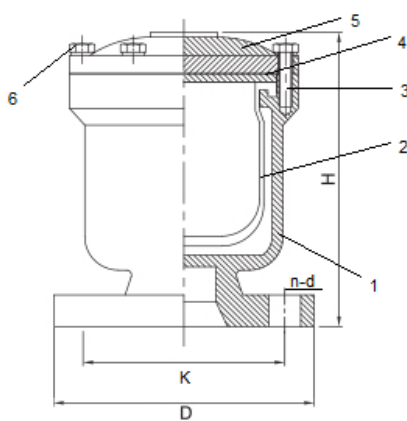
Unit:mm

Size		H	L	K			D			n-d		
DN	Inch			PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	214	273	125	125	125	165	165	165	4-18	4-18	4-18
65	2.5"	214	273	145	145	145	185	185	185	4-18	4-18	4-18
80	3"	244	283	160	160	160	200	200	200	8-18	8-18	8-18
100	4"	270	302	180	180	190	220	220	235	8-18	8-18	8-22
125	5"	323	353	210	210	220	250	250	270	8-18	8-18	8-22
150	6"	323	353	240	240	250	285	285	300	8-22	8-22	8-28
200	8"	401	433	295	295	310	340	340	360	8-22	12-22	12-28
250	10"	450	491	350	355	370	395	405	425	12-22	12-28	12-31
300	12"	500	523	400	410	430	445	460	485	12-22	12-28	16-31

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DN50 - DN300

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS EN 1074-4.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Gasket	NBR	BS EN 2104
3	Bolt	SUS304	BS EN 10088-3
4	Gasket	NBR	BS EN 2104
5	Bonnet	DI	BS EN 1563
6	Washer	SUS304	BS EN 10088-3

Dimensions

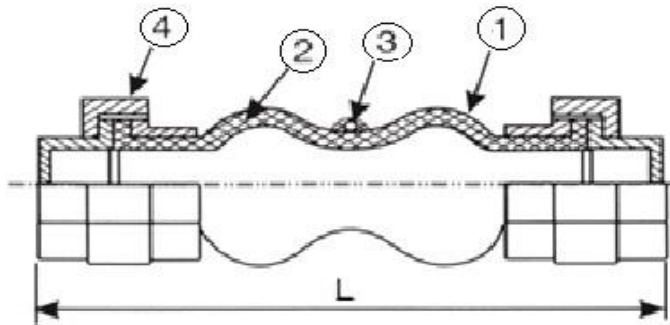
Unit:mm

Size		H	K			D			n-d		
DN	Inch		PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	230	125	125	125	165	165	165	4-18	4-18	4-18
65	2.5"	240	145	145	145	185	185	185	4-18	4-18	4-18
80	3"	250	160	160	160	200	200	200	8-18	8-18	8-18
100	4"	260	180	180	190	220	220	235	8-18	8-18	8-22
125	5"	280	210	210	220	250	250	270	8-18	8-18	8-22
150	6"	280	240	240	250	285	285	300	8-22	8-22	8-28
200	8"	345	295	295	310	340	340	360	8-22	12-22	12-28
250	10"	350	350	355	370	395	405	425	12-22	12-28	12-31
300	12"	385	400	410	430	445	460	485	12-22	12-28	16-31

*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice

DN20 - DN80

- ▶ **Connection:** BSTP/NPT Threaded
- ▶ **Technical standards:** BS EN 1092-1
- ▶ **Working Pressure:** PN10/PN16
- ▶ **Temperature range:** 0°C - 80°C.



Parts

Item	Part name	Material	Standard Ref.
1	Body	EPDM/ Neoprene rubber	BS EN 681
2	Reinforcement	Multi-pty nylon tire cord fabric	---
3	Wire	Spring-steel wire	---
4	Union	Malleable cast iron (Zinc plated/HDG)	BS EN 1982

Dimensions

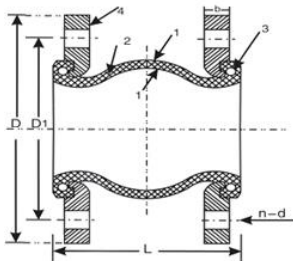
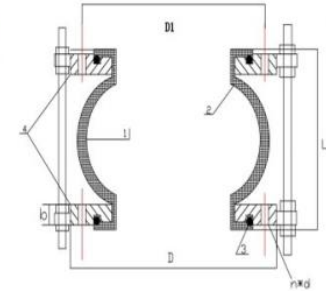
Unit:mm

Size		L Face to face dimension	Nylon tire cord fabric (layer)	Axial displacement	
DN	Inch			Stretch	Compression
20	3/4"	200	4	5-6	22
25	1"	200	4	5-6	22
32	1 1/4"	200	4	5-6	22
40	1 1/2"	200	4	5-6	22
50	2"	200	4	5-6	22
65	2 1/2"	265	4	5-6	24
80	3"	265	4	5-6	24

*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice

DN50 - DN600

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.



Item	Part name	Material	Standard Ref.
1	Body	EPDM/ Neoprene rubber	BS EN 681
2	Reinforcement	Nylon	---
3	Ring	Spring-steel wire	---
4	Flanges	Carbon steel	BS EN 1982

Dimensions

Unit:mm

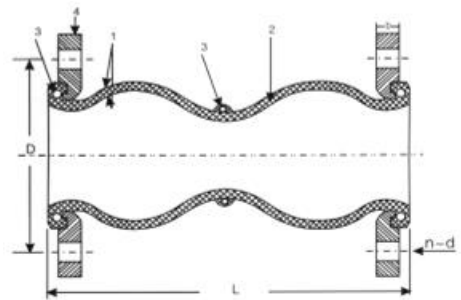
Size		L	Nylon tire cord fabric	Axial displacement		D			D1			n-d		
DN	Inc			Extension	Compression	PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	105	5-6	7	10	165	165	165	125	125	125	4-18	4-18	4-18
65	2.5"	115	5-6	7	13	185	185	185	145	145	145	4-18	4-18	4-18
80	3"	135	5-6	8	15	200	200	200	160	160	160	8-18	8-18	8-18
100	4"	150	5-6	10	19	220	220	235	180	180	190	8-18	8-18	8-22
125	5"	165	6-8	12	19	250	250	270	210	210	220	8-18	8-18	8-22
150	6"	180	6-8	12	20	285	285	300	240	240	250	8-22	8-22	8-28
200	8"	210	7-8	16	25	340	340	360	295	295	310	8-22	12-22	12-28
250	10"	230	8-10	16	25	395	405	425	350	355	370	12-22	12-28	12-31
300	12"	245	9-10	16	25	445	460	485	400	410	430	12-22	12-28	16-31
350	14"	255	10-12	16	25	505	520	555	460	470	490	16-22	16-28	13-34
400	16"	255	10-14	16	25	565	580	620	515	525	550	16-28	16-31	16-37
450	18"	255	10-14	16	25	615	640	670	565	585	600	20-28	20-31	20-37
500	20"	255	10-14	16	25	670	715	730	620	650	660	20-28	20-34	20-37
600	24"	265	12-18	16	25	780	840	845	725	770	770	20-31	20-37	20-40

*Please Note: technical data provided in this brochure is indicative only and may be subject to change without prior notice

DN50 - DN600

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.

Item	Part name	Material	Standard Ref.
1	Body	EPDM/ Neoprene rubber	BS EN 681
2	Reinforceme	Nylon	---
3	Ring	Spring-steel wire	---
4	Flanges	Carbon steel	BS EN 1982



Dimensions

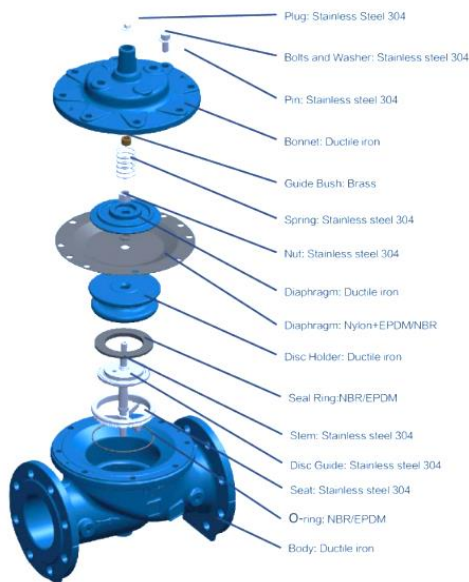
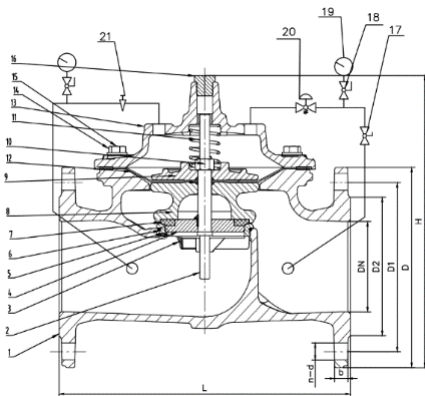
Unit:mm

Size		L	Nylon tire cord fabric	Axial displacement		D			D1			n-d		
DN	Inc			Extension	Compression	PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	170	5-6	30	50	165	165	165	125	125	125	4-18	4-18	4-18
65	2.5"	170	5-6	30	50	185	185	185	145	145	145	4-18	4-18	4-18
80	3"	180	5-6	35	50	200	200	200	160	160	160	8-18	8-18	8-18
100	4"	225	5-6	35	50	220	220	235	180	180	190	8-18	8-18	8-22
125	5"	225	6-8	35	50	250	250	270	210	210	220	8-18	8-18	8-22
150	6"	225	6-8	35	50	285	285	300	240	240	250	8-22	8-22	8-28
200	8"	325	7-8	35	50	340	340	360	295	295	310	8-22	12-22	12-28
250	10"	325	8-10	35	60	395	405	425	350	355	370	12-22	12-28	12-31
300	12"	325	9-10	35	60	445	460	485	400	410	430	12-22	12-28	16-31
350	14"	325	10-12	35	60	505	520	555	460	470	490	16-22	16-28	13-34
400	16"	325	10-14	35	60	565	580	620	515	525	550	16-28	16-31	16-37

*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice



DN50 - DN600



- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS EN 1567
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Fields of Application:** Neutral water, drinking water, sewage, irrigation, water supply.
- ▶ **Installation:** Horizontal - Vertical.
- ▶ **Internal and external coating by fusion bonded epoxy powder 250 micro thickness.**

Parts

Item	Part	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Stem	SUS304	BS EN 10088-3
3	Seat	SUS304	BS EN 10088-3
4	Oring	NBR	BS EN 2104
5	Sealing	NBR	BS EN 2104
6	Mounti	DI	BS EN 1563
7	Diaphr	NBR	BS EN 2104
8	Bonnet	DI	BS EN 1563
9	Bolt	SUS304	BS EN 10088-3
10	Plain	SUS304	BS EN 10088-3
11	Guide	Brass	BS EN 12163
12	Spring	SUS304	BS EN 10088-3
13	Check	SUS304	BS EN 10088-3
14	Top	DI	BS EN 1563
15	Oring	NBR	BS EN 2104
16	Lower	SUS304	BS EN 10088-3
17	Plug	SUS304	BS EN 10088-3

Dimensions

Unit

DN	L	H	D2	D			D1			n-d		
				PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	215	150	99	165	165	165	125	125	125	4-18	4-18	4-18
65	235	175	118	185	185	185	145	145	145	4-18	4-18	4-18
80	275	215	132	200	200	200	160	160	160	8-18	8-18	8-18
100	306	220	156	220	220	235	180	180	190	8-18	8-18	8-22
125	306	220	156	250	250	270	210	210	220	8-18	8-18	8-22
150	375	335	211	285	285	300	240	240	250	8-22	8-22	8-28
200	430	415	266	340	340	360	295	295	310	8-22	12-22	12-28
250	533	500	319	395	405	425	350	355	370	12-22	12-28	12-31
300	610	550	370	445	460	485	400	410	430	12-22	12-28	16-31
350	630	570	430	505	520	555	460	470	490	16-22	16-28	13-34
400	680	630	475	565	580	620	515	525	550	16-28	16-31	16-37
450	720	685	530	615	640	670	565	585	600	20-28	20-31	20-37
500	900	845	585	670	715	730	620	650	660	20-28	20-34	20-37
600	1100	1000	680	780	840	845	725	770	770	20-31	20-37	20-40

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DN50 - DN600

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS EN 1567
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Installation:** Horizontal - Vertical.
- ▶ **Internal and external coating** by fusion bonded epoxy powder 250 micro thickness.

PRODUCT DESCRIPTION

▶ The pressure reducing valve consists of a main valve and its attached pipes, needle valves, ball valves, pilot valves, and pressure gauges. Due to the need to connect the pilot valve, needle valve, and pressure gauge to the main valve through a conduit, they are collectively referred to as the conduit control system

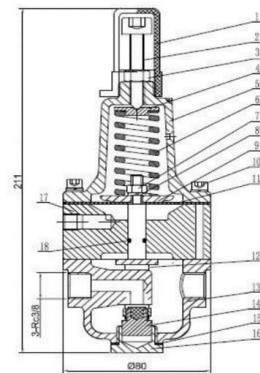
▶ Pressure reducing control valves is hydraulic control valves that reduce the high input pressure value to a lower desired pressure value close off tightly when the desired outlet pressure value is reached, thanks to the pressure reducer pilot mechanisms mounted on the valve.

The pressure reducer control valves constantly check the output pressure value which is set without being influenced by flow rate and input pressure value. When there is no flow in the system, the valve automatically closes itself completely and tightly.

After the pressure reducing valve has been activated, the pipeline filling speed will continue as fast as a certain amount of pressure, but as soon as the set pressure value approaches the set value, the valve is gradually reduced and the remaining pressure is gradually completed.

The valve opens automatically when the pressure and flow rate are needed in the pipeline and closes automatically when the need ends.

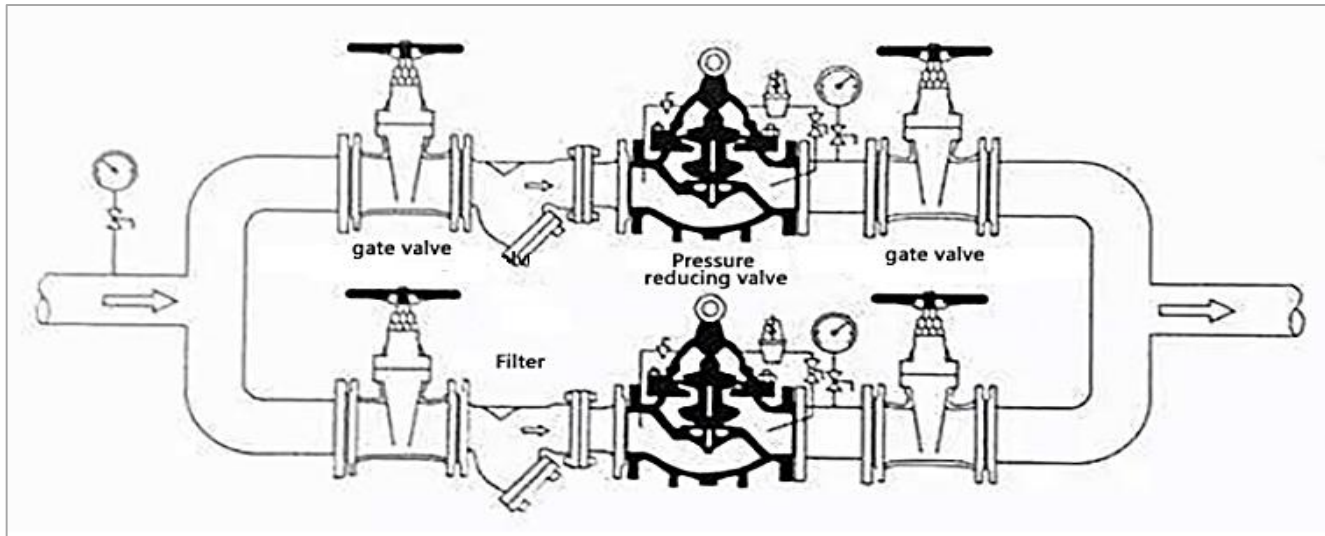
STT	Part name	Material	Standard Ref.
1	Cap	Plastic	ISO 2580
2	Adjusting Screw	SUS304	BS EN 10088-3
3	Jam Nut	SUS304	BS EN 10088-3
4	Spring guide	SUS304	BS EN 10088-3
5	Bonnet	SUS304	BS EN 10088-3
6	Spring	SUS304	BS EN 10088-3
7	Nut	SUS304	BS EN 10088-3
8	Washer	SUS304	BS EN 10088-3
9	Fixing Holder	SUS304	BS EN 10088-3
10	Screw	SUS304	BS EN 10088-3
11	Diaphragm	NBR+Nylon	BS EN 2104/
12	Yoke	SUS304	BS EN 10088-3
13	Body	SUS304	BS EN 10088-3
14	Disc	SUS304+NBR	BS EN 10088-3/ BS EN 2104
15	O-Ring	NBR	BS EN 2104
16	Plug	SUS304	BS EN 10088-3
17	Internal Body	SUS304	BS EN 10088-3
18	O- Ring	NBR	BS EN 2104



MAIN TECHNICAL PERFORMANCE

Nominal pressure PN	1.0MPa	1.6MPa	2.5MPa
Shell experimental pressure	1.5MPa	2.4MPa	3.75MPa
Sealing test pressure	1.1MPa	1.76MPa	2.75MPa
Maximum inlet pressure	1.0MPa	1.6MPa	2.5MPa
Adjustable range of outlet pressure	0.09-0.8MPa	0.10-1.2MPa	0.15-1.6MPa
Temperature	0°C - 80°C		
Applicable Medium	Neutral water, drinking water, sewage, irrigation, water supply.		

INSTALLATION AND ADJUSTMENT



- ▶ The best installation method for the main valve is to install it horizontally on the pipeline, with the valve cover facing upwards. Other installation methods can also achieve functional use. Before installation, it is necessary to completely eliminate debris in the pipeline. Pay attention to the water flow identification arrow outside the valve body and follow the direction of installation. After installation, it should be ensured that there is no pipeline stress acting on the valve body and internal components.
- ▶ A gate valve and a continuous filter should be installed in front of the main valve, and a gate valve should also be installed behind the main valve for maintenance.
- ▶ The pipeline system must be thoroughly flushed before water supply.
- ▶ A bypass valve should be installed for important water supply pipelines.
- ▶ Voltage regulation method
 - Close the upstream isolation valve (gate valve or butterfly valve), open the downstream isolation valve (gate valve or butterfly valve) for pressure relief, and after the downstream pressure reaches 0MPa, close the downstream isolation valve (gate valve or butterfly valve).
 - Tighten the adjusting screw of the pilot valve to the top position and open the needle valve on the main valve to half the position.
 - Slowly open the upstream isolation valve (gate valve or butterfly valve) until it is fully open.
 - Slowly tighten the regulating screw of the pilot valve downwards, and the outlet pressure will gradually increase until the set value is reached, locking the regulating screw.
 - When adjusting pressure, do not rush or quickly tighten the adjustment screw. You must adjust it bit by bit according to the state of the pressure gauge behind the valve. If the pressure is adjusted too much, it must be readjusted from the first step, that is, it can only be adjusted from low pressure to high pressure.

***Please Note: technical data provided in this brochure is indicative only and may be subject to change without prior notice**

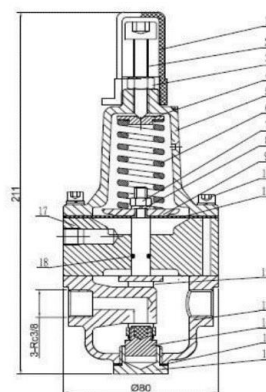
DN50 - DN600

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS EN 1567.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Installation:** Horizontal - Vertical.
- ▶ **Internal and external coating** by fusion bonded epoxy powder 250 micro thickness.

PRODUCT DESCRIPTION

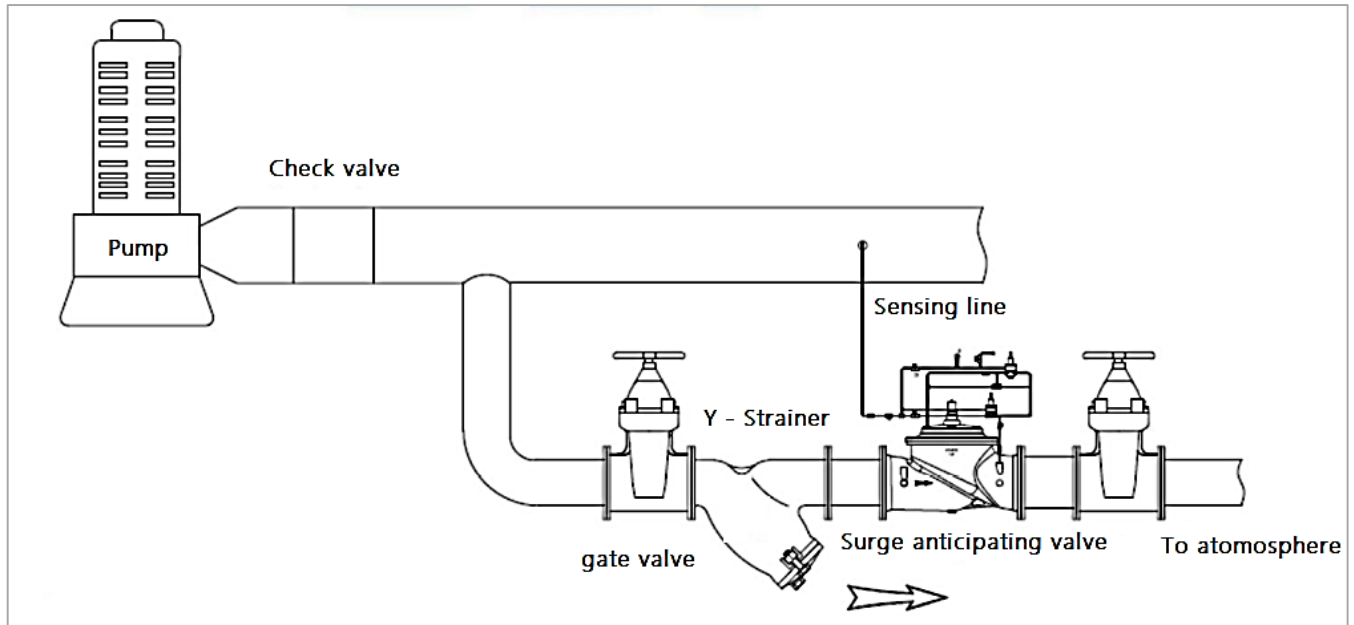
- ▶ The pressure reducing valve consists of a main valve and its attached pipes, needle valves, ball valves, pilot valves, and pressure gauges. Due to the need to connect the pilot valve, needle valve, and pressure gauge to the main valve through a conduit, they are collectively referred to as the conduit control system.
- ▶ Surge anticipating valves is safety control valves which are designed to protect the pipeline and which absorb the sinusoidal energy waves the occur as a result of sudden closing of the valves or power outages at the first filling in long force mains of water supply networks and which automatically discharges surge which is created as a result of momentum especially during stopping and starting in pumping systems, to the atmosphere.
- ▶ Valve removes decreasing pressure wave from pipeline due to low pressure pilot and removes increasing pressure wave due to high pressure tides in the pipeline reach normal, valve closes itself automatically and completely tightly.

STT	Part name	Material	Standard Ref.
1	Cap	Plastic	ISO 2580
2	Adjusting Screw	SUS304	BS EN 10088-3
3	Jam Nut	SUS304	BS EN 10088-3
4	Spring guide	SUS304	BS EN 10088-3
5	Bonnet	SUS304	BS EN 10088-3
6	Spring	SUS304	BS EN 10088-3
7	Nut	SUS304	BS EN 10088-3
8	Washer	SUS304	BS EN 10088-3
9	Fixing Holder	SUS304	BS EN 10088-3
10	Screw	SUS304	BS EN 10088-3
11	Diaphragm	NBR+Nylon	BS EN 2104
12	Yoke	SUS304	BS EN 10088-3
13	Body	SUS304	BS EN 10088-3
14	Disc	SUS304+NBR	BS EN 10088-3/BS EN 2104
15	O-Ring	NBR	BS EN 2104
16	Plug	SUS304	BS EN 10088-3
17	Internal Body	SUS304	BS EN 10088-3
18	O-Ring	NBR	BS EN 2104



MAIN TECHNICAL PERFORMANCE

Nominal pressure PN	1.0MPa	1.6MPa	2.5MPa
Shell experimental pressure	1.5MPa	2.4MPa	3.75MPa
Sealing test pressure	1.1MPa	1.76MPa	2.75MPa
Maximum inlet pressure	1.0MPa	1.6MPa	2.5MPa
Adjustable range of outlet pressure	0.09-0.8MPa	0.10-1.2MPa	0.15-1.6MPa
Temperature	0°C - 80°C		
Applicable Medium	Neutral water, drinking water, sewage, irrigation, water supply.		

INSTALLATION AND ADJUSTMENT**Installation and debugging**

- ▶ Confirm the flow direction of pipeline must meet the arrow of Surge anticipating valve.
- ▶ Enough space for adjustments and disassembly.
- ▶ Install the gate valves in both inlet and outlet of Surge anticipating valve.
- ▶ Install the Y - Strainer before Surge anticipating valve.
- ▶ The valve must be installed horizontally.
- ▶ Confirm the discharge line is full, open fully the downstream isolating valve and turn off the pump.
- ▶ Loosen the top plug of main valve, release the air in the surge valve, till water comes out. Tighten the plug again.
- ▶ Check the needle valve, fully close the needle valve, then open the needle valve just 1/2 turn. Close the ball valve.
- ▶ Loosen the adjust bolt and tighten the adjust bolt.
- ▶ Fully close the inlet gate valve, record the pressure from gauge (the data is basic pressure).
- ▶ Loosen the nut behind on/off pilot.
- ▶ Slowly open the needle valve, till the pressure (from pressure gauge) close to the setting.
- ▶ Tighten the adjust bolt, till the water leak from the nut pilot. Lock the jam nut of adjust bolt.
- ▶ Open the inlet gate valve.
- ▶ Loosen the adjust bolt, till the water leak from the nut behind. Continue to tighten the adjust bolt. Lock the jam nut of adjust bolt.
- ▶ Lock the behind pilot.

***Please Note: technical data provided in this brochure is indicative only and may be subject to change without prior notice**

DN50 - DN600

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS EN 1567.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Installation:** Horizontal - Vertical.
- ▶ Internal and external coating by fusion bonded epoxy powder 250 micro thickness.

PRODUCT DESCRIPTION

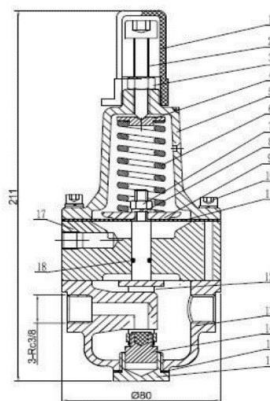
▶ The pressure reducing valve consists of a main valve and its attached pipes, needle valves, ball valves, pilot valves, and pressure gauges. Due to the need to connect the pilot valve, needle valve, and pressure gauge to the main valve through a conduit, they are collectively referred to as the conduit control system.

▶ Pressure relief control valves is safety control valves which automatically discharges the sudden positive changes in the water pressure as a result of engagement and disengagement of pumps in the system and in force mains of water supply networks.

When the pressure of the piping line exceeds the set point, valve opens quickly and projects the system by relieving excessive pressure. When pressure value in the pipeline drops to normal level, it automatically closes in a leakproof manner slowly without creating shock.

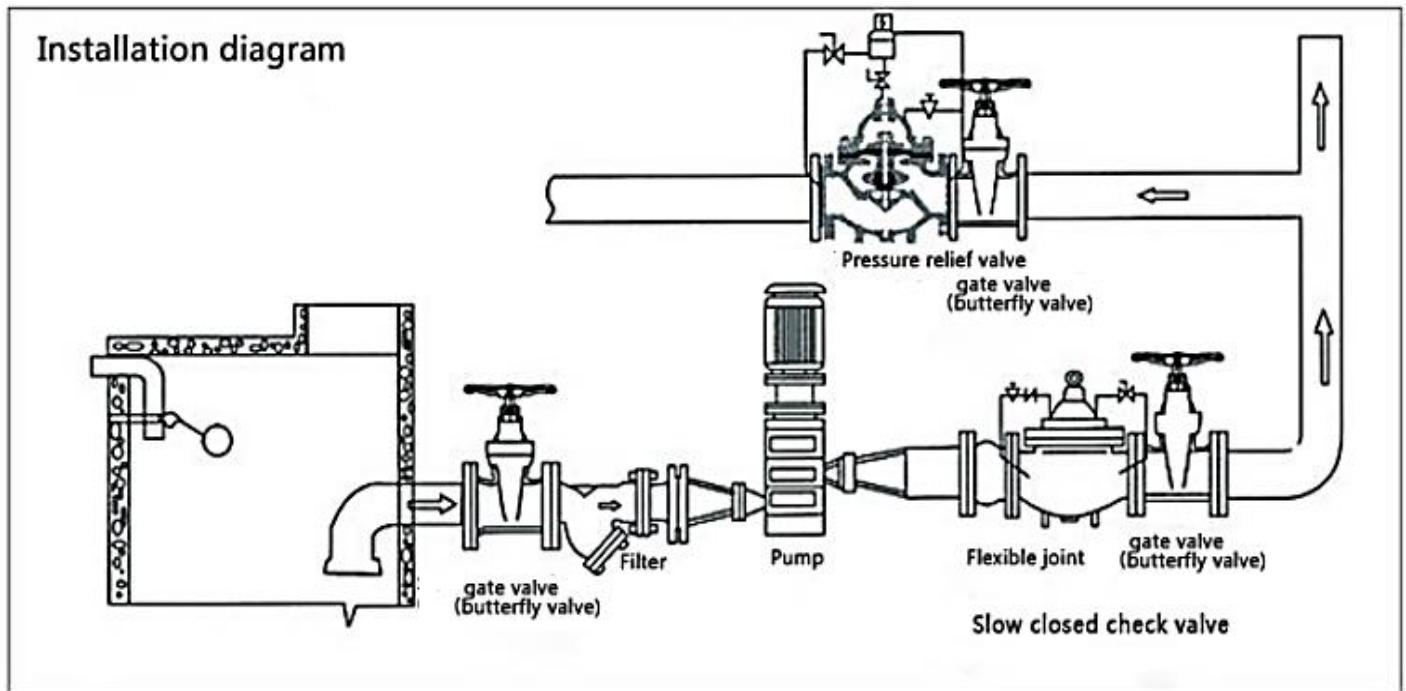
There is no need to choose same diameter as line diameter since these valves are generally installed to pipeline as "T" shaped or at the end of the line. Because it will discharge the amount which is above the adjusted pressure, it is appropriate to choose the diameter with the capacity to discharge enough flow.

STT	Part name	Material	Standard Ref.
1	Cap	Plastic	ISO 2580
2	Adjusting Screw	SUS304	BS EN 10088-3
3	Jam Nut	SUS304	BS EN 10088-3
4	Spring guide	SUS304	BS EN 10088-3
5	Bonnet	SUS304	BS EN 10088-3
6	Spring	SUS304	BS EN 10088-3
7	Nut	SUS304	BS EN 10088-3
8	Washer	SUS304	BS EN 10088-3
9	Fixing Holder	SUS304	BS EN 10088-3
10	Screw	SUS304	BS EN 10088-3
11	Diaphragm	NBR+Nylon	BS EN 2104/BS EN 681
12	Yoke	SUS304	BS EN 10088-3
13	Body	SUS304	BS EN 10088-3
14	Disc	SUS304+NBR	BS EN 10088-3/BS EN 2104
15	O-Ring	NBR	BS EN 2104
16	Plug	SUS304	BS EN 10088-3
17	Internal Body	SUS304	BS EN 10088-3
18	O-Ring	NBR	BS EN 2104



MAIN TECHNICAL PERFORMANCE

Nominal pressure PN	1.0MPa	1.6MPa	2.5MPa
Shell experimental pressure	1.5MPa	2.4MPa	3.75MPa
Sealing test pressure	1.1MPa	1.76MPa	2.75MPa
Maximum inlet pressure	1.0MPa	1.6MPa	2.5MPa
Adjustable range of outlet pressure	0.09-0.8MPa	0.10-1.2MPa	0.15-1.6MPa
Temperature	0°C - 80°C		
Applicable Medium	Neutral water, drinking water, sewage, irrigation, water supply.		

INSTALLATION AND ADJUSTMENT**Working principle**

- ▶ When the pressure relief/holding pilot valve is adjusted to the pressure relief state, water flows through the needle valve, main valve control room, guide pipe A, pressure relief/holding pilot valve, and guide pipe B to the outlet. At this time, the main valve is in the open state.
- ▶ When the inlet pressure exceeds the safety value set by the pressure relief/holding valve, the pressure relief valve will automatically open and release some water through the ball valve to relieve pressure in the pipeline.
- ▶ When the pressure returns to a safe value, the pressure relief valve automatically closes.
- ▶ When working as a pressure relief valve, the ball valve is always open.

Installation and debugging

- ▶ Turn on the water pump and check if the pressure gauge on the pressure relief valve has the required pressure relief value. If it is not the required pressure relief value, debugging is necessary.
- ▶ First, turn on the water pump and loosen the adjustment screw shown in the diagram to the top. Check if the pressure gauge value is 0, then slowly tighten the screw downwards and observe the value of the pressure gauge at the back until it reaches the desired set pressure value.
- ▶ If the pipeline pressure is unstable, it will cause the pressure gauge pointer to continuously swing. We can adjust it to the center position of the pressure gauge pointer swing.
- ▶ After adjustment, to ensure that the pressure relief value is within the set value, the water pump can be repeatedly turned on to check if the pressure relief valve is releasing pressure.
- ▶ Note: It is normal for the pressure relief valve to drain during the pressure regulation process.
- ▶ The needle valve on the pressure relief valve mainly controls the speed of pressure relief and quick closing. The larger the needle valve is opened, the slower the pressure relief speed and the faster the closing speed; If the opening is small and the pressure relief speed is fast, the closing will be slow, so it is recommended to open it smaller.

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DN50 - DN600

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS EN 1567.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Installation:** Horizontal - Vertical.
- ▶ Internal and external coating by fusion bonded epoxy powder 250 micro thickness.

PRODUCT DESCRIPTION

▶ The pressure reducing valve consists of a main valve and its attached pipes, needle valves, float valve. Due to the need to connect the needle valve, float valve to the main valve through a conduit, they are collectively referred to as the conduit control system.

▶ Float leve control valves is hydraulic control valves that sustain water level at desired ranges in tanks with large surface area or reservoirs with low volume. Main valve is automatically controlled by 2 way horizontal float. Main valve which is mounted to tank or reservoir entrances closes in a leakproof manner without creating shock when water level drops down below float, main valve opens completely and enables tank or reservoir to be full. Valve automatically adjusts flow rate of water into tank according to flow in the tank.

Reliable hydraulic operation.

Drip - proof positive closing.

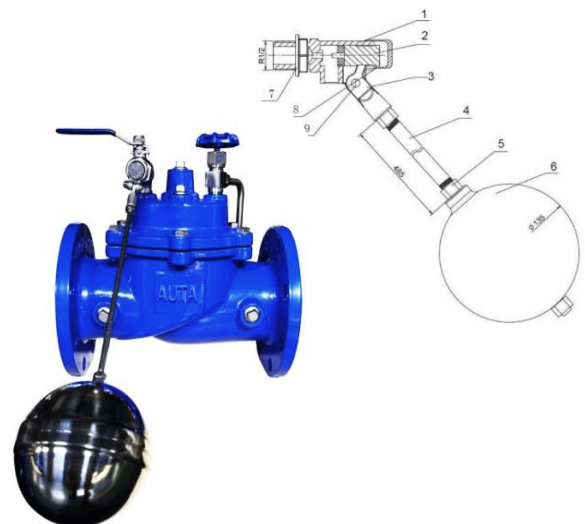
Fully automatic operation.

Always full tank or reservoir.

Easy level adjustment.

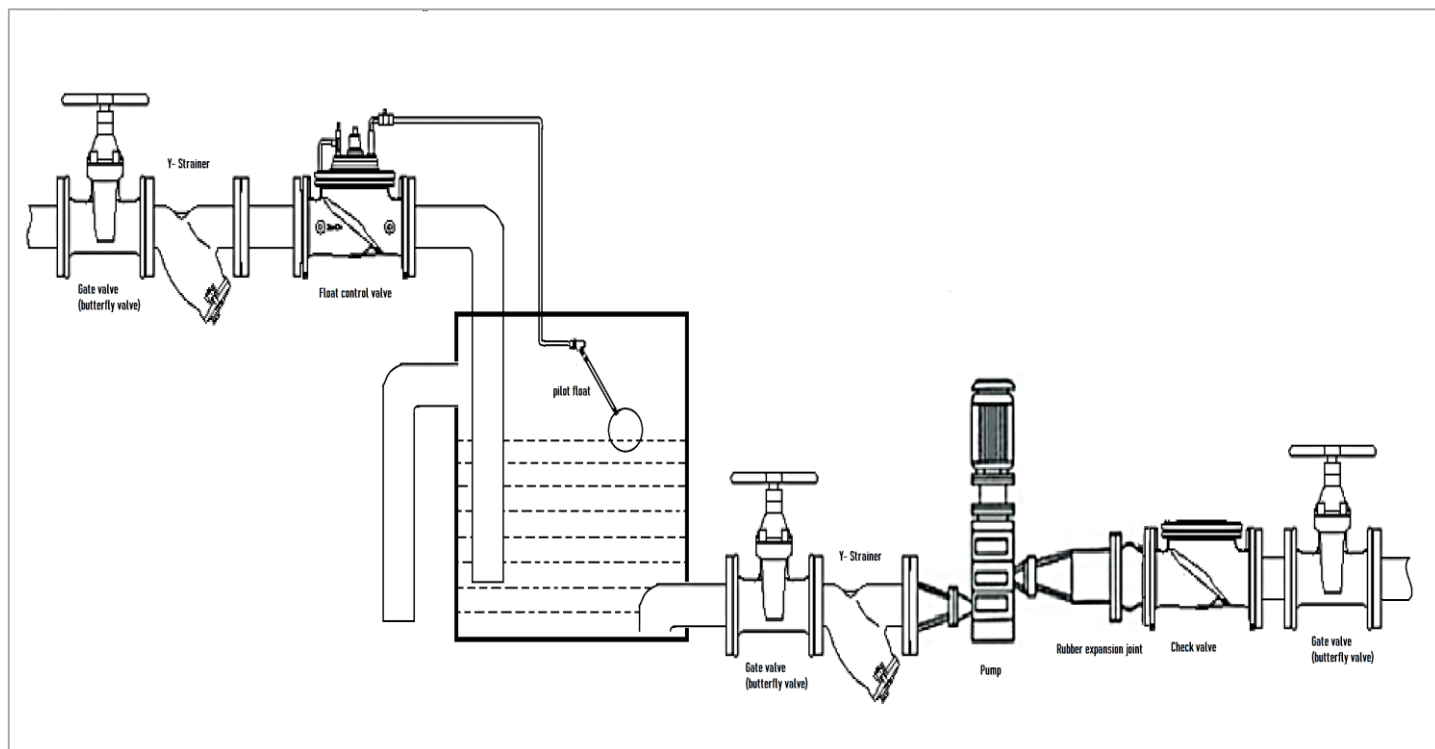
▶ Float leve control valve is a hydraulic operated valve that combines multiple functions. To be installed at the inlet of a water tank or elevated water tower, when the water level reaches the set height, the main valve is controlled by a float valve to close the inlet and stop supplying water; When the water level drops, the main valve, together with the float switch, controls the opening of the water inlet to inject water into the water tank, achieving automatic replenishment. Accurate liquid level control, not affected by water pressure interference; The floating ball valve can be installed at any position according to the height and usage space of the water tank. It is easy to maintain, debug, and inspect, with reliable sealing and long service life.

STT	Part name	Material	Standard Ref.
1	Body	SUS304	BS EN 10088-3
2	Disc	SUS304 +EPDM	BS EN 10088-3/ BS EN 681
3	Yoke	SUS304	BS EN 10088-3
4	Rod	SUS304	BS EN 10088-3
5	Nut	SUS304	BS EN 10088-3
6	Float	SUS304	BS EN 10088-3
7	Jam Nut	SUS304	BS EN 10088-3
8	Bonnet	SUS304	BS EN 10088-3
9	Screw	SUS304	BS EN 10088-3



MAIN TECHNICAL PERFORMANCE

Nominal pressure PN	1.0MPa	1.6MPa	2.5MPa
Shell experimental pressure	1.5MPa	2.4MPa	3.75MPa
Sealing test pressure	1.1MPa	1.76MPa	2.75MPa
Maximum inlet pressure	1.0MPa	1.6MPa	2.5MPa
Adjustable range of outlet pressure	0.09-0.8MPa	0.10-1.2MPa	0.15-1.6MPa
Temperature	0°C - 80°C		
Applicable Medium	Neutral water, drinking water, sewage, irrigation, water supply.		

INSTALLATION AND ADJUSTMENT**Working principle**

- ▶ When the pipeline supplies water from the inlet end, as the needle valve, ball valve, and float valve are normally open, water enters the water tank through the needle valve, control room, ball valve, and float valve. At this time, no pressure is formed in the control room, and the main valve is opened to supply water to the water tank.
- ▶ When the written height of the water tank rises to the set height, the floating ball rises and closes the floating ball valve, controlling the increase in indoor water pressure, pushing the main valve to close, and the water supply stops.
- ▶ When the water level drops, the float valve reopens, the control room water pressure drops, and the main valve opens again to continue supplying water, maintaining the set height of the liquid level.

Installation and debugging

- ▶ The float leve control valve should be installed on the inlet pipeline of the water tank or water tank, preferably horizontally, with the valve cover facing upwards. The control conduit and float ball should meet the following requirements.
- ▶ The float leve control valve control conduit should be fully fixed on the pool or water tank, and the total length of the control conduit should not exceed 8cm. The center of the float valve should be 1cm away from the water inlet or the inlet pipe should be equipped with a wave suppression device.
- ▶ There should be anti backflow air holes in the same water tank or above the overflow water level.

***Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice**

DN50 - DN600

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** BS EN 1567
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Installation:** Horizontal - Vertical.
- ▶ Internal and external coating by fusion bonded epoxy powder 250 micro thickness.

PRODUCT DESCRIPTION

▶ Electric control valve is used for water supply, air conditioning, and fire protection pipeline systems. Using an solenoid valve as a pilot valve, when the solenoid valve is powered on or off, the valve is controlled to open and close by the pressure of water in the pipeline.

▶ It consists of main valve, solenoid valve, needle valve, ball valve and other components. Simultaneously, the control circuit requires a liquid level switch. Or components such as electric contact pressure gauges can be used to achieve interlocking control.

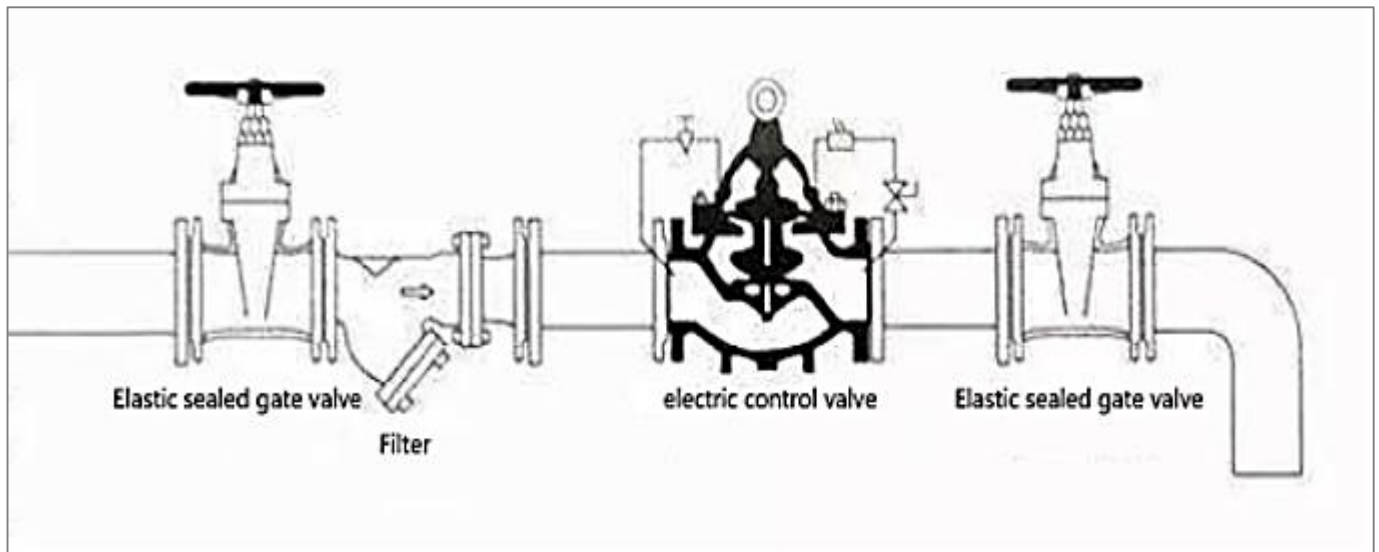
▶ The medium at the inlet end of the valve runs along the conduit. Needle valve. Enter the upper chamber of the diaphragm. When the solenoid valve coil is energized, the solenoid valve opens. The medium in the upper chamber of the main valve diaphragm flows along the solenoid valve and ball valve to the outlet, and the pressure in the upper chamber of the diaphragm decreases. Under the pressure difference, the medium pressure pushes open the main valve core, the main valve opens, and water supply begins. When the solenoid valve coil is powered off, the solenoid valve remains closed, and the outflow channel on the main valve diaphragm remains closed. Due to the larger membrane area than the main valve core area, the main valve closes under the pressure difference between the two. When used for pool level control: When the level drops to the set low level, the level switch sends a signal, the solenoid valve coil is energized, the solenoid valve opens, and then the main valve opens to start supplying water. When the liquid level in the pool reaches the set height value, under the action of the liquid level switch, a control signal is issued, and the solenoid valve is closed, thereby closing the main valve and stopping the water supply. The 060EH hydraulic electric control valve only has control functions and requires liquid level detection instruments to be used in conjunction. When using an electric contact pressure gauge, the pipeline pressure can also be controlled. Wider application.

STT	Part name	Material	Standard Ref.
1	Body	SUS304	BS EN 10088-3
2	Disc	SUS304 +EPDM	BS EN 10088-3/BS EN 681
3	Yoke	SUS304	BS EN 10088-3
4	Rod	SUS304	BS EN 10088-3
5	Nut	SUS304	BS EN 10088-3
6	Float	SUS304	BS EN 10088-3
7	Jam Nut	SUS304	BS EN 10088-3
8	Bonnet	SUS304	BS EN 10088-3
9	Screw	SUS304	BS EN 10088-3



MAIN TECHNICAL PERFORMANCE

Nominal pressure PN	1.0MPa	1.6MPa	2.5MPa
Shell experimental pressure	1.5MPa	2.4MPa	3.75MPa
Sealing test pressure	1.1MPa	1.76MPa	2.75MPa
Maximum inlet pressure	1.0MPa	1.6MPa	2.5MPa
Adjustable range of outlet pressure	0.09-0.8MPa	0.10-1.2MPa	0.15-1.6MPa
Temperature	0°C - 80°C		
Applicable Medium	Neutral water, drinking water, sewage, irrigation, water supply.		

INSTALLATION AND ADJUSTMENT

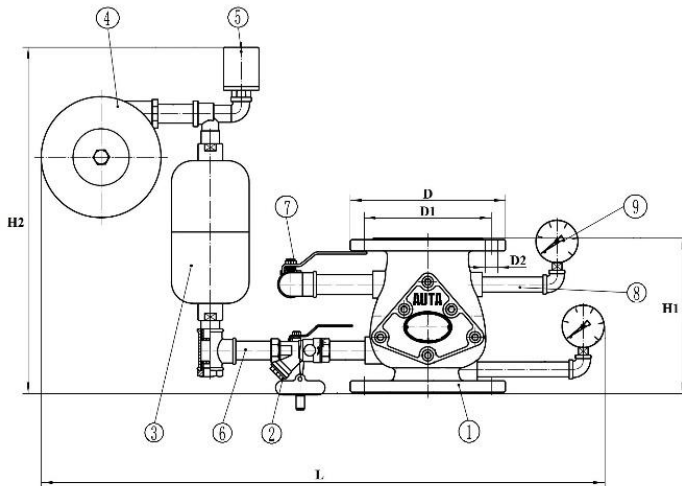
- ▶ When the solenoid valve starts, the main valve opens. When the solenoid valve is closed, the main valve is closed. The voltage of solenoid valves is commonly used as AC 220V or DC 24V, normally closed. When the solenoid valve coil is damaged. The solenoid valve can be closed. Then the main valve remains closed. Electromagnetic valves can also be normally open, with the main valve remaining normally open. Select the normally open and normally closed states of the solenoid valve according to process requirements and safety.
- ▶ The needle valve on the catheter can adjust the closing time of the main valve. Closing the needle valve in a timely manner can prolong the closing time of the main valve core, achieve a slow closing effect, and reduce water hammer phenomenon. Increasing the opening of the needle valve counterclockwise will accelerate the closing time of the main valve.
- ▶ The ball valve on the conduit serves to emergency close the main valve. When the solenoid valve fails and cannot be closed, the ball valve can be manually closed. The outlet of the valve chamber on the disc is closed, the pressure increases, and then the main valve closes.
- ▶ A filter should be installed in front of the main valve to prevent impurities from blocking the conduit, needle valve, and solenoid valve. Impurities can also cause the main valve core to not close tightly, causing the water level in the pool to be too high and causing overflow.

***Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice**



DN50 - DN600

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** FM Class 1041.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating** by fusion bonded epoxy powder 250 micro thickness.



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Ball valve	SUS304	BS EN 10088-3
3	Delayer	Steel	BS EN 1982
4	Water Motor Gong	Steel	BS EN 1982
5	Pressure Switch	Standard	---
6	Connection Pipe	SUS304	BS EN 10088-3
7	Ball valve	SUS304	BS EN 10088-3
8	Connection Pipe	SUS304	BS EN 10088-3
9	Pressure Gauge	Standard	---

Dimensions

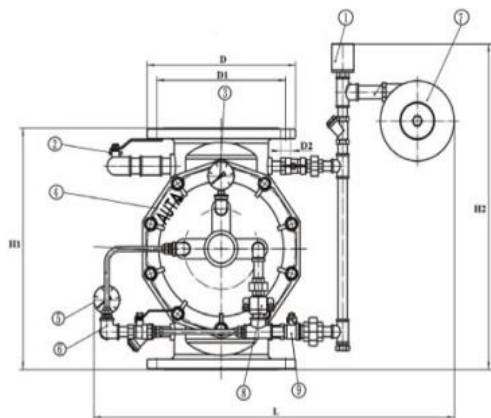
Unit:mm

DN	L	H1	H2	D			D1			n-d		
				PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	718	212	480	165	165	165	125	125	125	4-18	4-18	4-18
65	718	212	480	185	185	185	145	145	145	4-18	4-18	4-18
80	798	218	486	200	200	200	160	160	160	8-18	8-18	8-18
100	798	218	486	220	220	235	180	180	190	8-18	8-18	8-22
125	837	250	490	250	250	270	210	210	220	8-18	8-18	8-22
150	837	256	490	285	285	300	240	240	250	8-22	8-22	8-28
200	881	288	495	340	340	360	295	295	310	8-22	12-22	12-28
250	900	305	500	395	405	425	350	355	370	12-22	12-28	12-31
300	952	337	510	445	460	485	400	410	430	12-22	12-28	16-31

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DN50 - DN300

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Technical standards:** FM Class 1041
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating** by fusion bonded epoxy powder 250 micro thickness.



Parts

Item	Part name	Material	Standard Ref.
1	Water Flow Pressure Switch	---	---
2	Ball Valve	Brass/ SUS304	BS 1400/BS EN 10088-3
3	Diaphragm Chamber Pressure Gauge	---	---
4	Deluge Valve Body	DI	BS EN 1563
5	Pressure Switch	Standard	---
6	Elbow	SUS304	BS EN 10088-3
7	Water Motor Alarm Gong	SUS304	BS EN 10088-3
8	Automatic Drain Valve	Brass/SUS304	BS 1400/BS EN 10088-3
9	Solenoid Valve	Standard	---

Dimensions

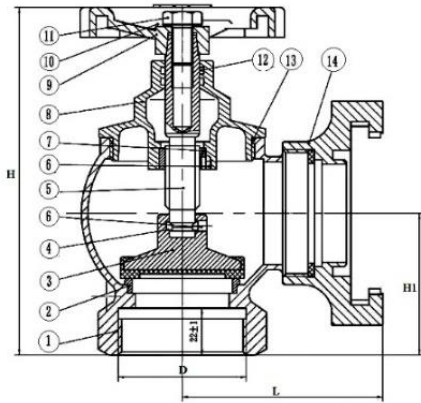
Unit:mm

Size		L	H1	H2	D			D1			n-d		
DN	Inch				PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	2"	700	300	500	165	165	165	125	125	125	4-18	4-18	4-18
65	2.5"	700	300	500	185	185	185	145	145	145	4-18	4-18	4-18
80	3"	730	320	523	200	200	200	160	160	160	8-18	8-18	8-18
100	4"	730	320	523	220	220	235	180	180	190	8-18	8-18	8-22
125	5"	775	400	588	250	250	270	210	210	220	8-18	8-18	8-22
150	6"	775	400	588	285	285	300	240	240	250	8-22	8-22	8-28
200	8"	827	510	688	340	340	360	295	295	310	8-22	12-22	12-28
250	10"	860	600	728	395	405	425	350	355	370	12-22	12-28	12-31
300	12"	900	660	788	445	460	485	400	410	430	12-22	12-28	16-31

*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice

DN50 - DN65

- ▶ **Connection:** BSTP/ NPT Threaded..
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating** by fusion bonded epoxy powder 250 micro thickness.



Parts

Item	Part name	Material	Standard Ref.
1	Body	DI	BS EN 1563
2	Base	Brass	BS 1400
3	Disc	DI+NBR	BS EN 1563/BS EN 2104
4	Rolling Ball	SUS304	BS EN 10088-3
5	Stem	SUS304	BS EN 10088-3
6	Slotted set screws with flat point	Brass	BS EN 12163
7	Nut	Brass	BS EN 12163
8	Valve cover	DI	BS EN 1563
9	Hand wheel	DI	BS EN 1563
10	Plate	Aluminium	BS EN 573
11	Screw bolt	SUS304	BS EN 10088-3
12	O ring	NBR	BS EN 2104
13	O ring	NBR	BS EN 2104
14	Gost Coupling	Aluminium	BS EN 573

Dimensions

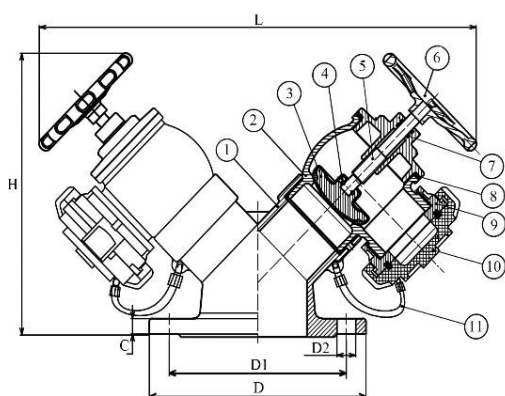
Unit:mm

Size		D	L	H	H1
DN	Inch				
50	2"	52.12 - 55.58	94	163	65
65	2.5"	64.31 - 66.27	104	170	72

*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice

DN100

- ▶ **Connection:** Flanged to EN 1092-2, BS4504.
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ **Internal and external coating** by fusion bonded epoxy powder 250 micro thickness.



Parts

Item	Part name	Material	Standard Ref.
1	Valve Body	DI	BS EN 1563
2	Body	DI	BS EN 1563
3	Landing Valve Disc	DI+ EPDM	BS EN 1563 +BS EN 681
4	Slotted set Screws	Brass	BS EN 12163
5	Stem	SUS304	BS EN 10088-3
6	Handwheel	DI	BS EN 1563
7	O Ring	NBR	BS EN 2104
8	O Ring	NBR	BS EN 2104
9	Gost coupling	Aluminium	BS EN 573
10	Cap	Aluminium	BS EN 573
11	Chain	Carbon steel	BS 9701

Dimensions

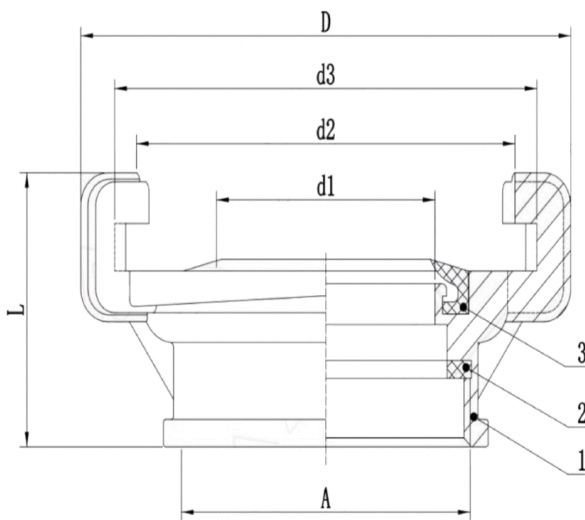
Unit:mm

Size		L	H	C	D			D1			n-d		
DN	Inch				PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
100	4"	435	270	19	220	220	235	180	180	190	8-18	8-18	8-22

*Please Note: technical data provided in this brochure is in dicative only and may be subject to chang without prior notice

DN50 - DN65

- ▶ **Connection:** BSTP/ NPT Threaded..
- ▶ **Working Pressure:** PN10/PN16/PN25.
- ▶ **Temperature range:** 0°C - 80°C.
- ▶ The AUTA Brand Gost Adaptor is an essential component in firefighting equipment that connects hoses to hydrants or pumps. It is a durable and sturdy adapter made of brass or aluminum that is designed to withstand high water pressure and extreme environmental conditions.
- ▶ The gost adaptor is a crucial tool in firefighting because it facilitates the efficient transfer of water from the source to the hoses. Its compatibility with a wide range of hoses and hydrants ensures that firefighters can quickly connect their equipment and begin extinguishing a fire in the shortest possible time.



Dimensions

Unit:mm

Model	KY51	KY66
Size	DN50	DN65
Material (1)	Aluminum Alloy	Aluminum Alloy
O ring (2) + (3)	EPDM	EPDM
A	2"	2 1/2"
d1	45	57
d2	78	94.5
d3	87	103.5
D	101	119
L	46	50
Weight	132.4g	164.6g

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DN50 - DN65



Model	PRV-83H
Intel	Male BSP Screw thread
Outlet	Aluminium connection
Body	Ductile iron
Handwheel	Ductile iron
Working pressure	PN16
Comply to	BS5041-1



Model	PRV-86H
Intel	Male BSP Screw thread
Outlet	Aluminium connection
Body	Copper Alloy
Handwheel	Ductile iron
Working pressure	PN16
Comply to	BS5041-1

- ▶ Pressure reducing angle hydrant valve are suitable for installation on wet risers in buildings for fire-fighting purposes, permanently charged with water from a pressurized supply.
- ▶ The function off PRV is to regulate the outlet pressure within certain range regardless of how high the inlet pressure is.

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PRODUCTS DIRECTORY

NON - RISING STEM RESILIENT SEATED GATE VALVE

RISING STEM RESILIENT SEATED GATE VALVE OS&Y

RISING STEM RESILIENT SEATED GATE VALVE OS&Y WITH SUPERVISOR SWITCH

RESILIENT SEATED GATE VALVE SOCKET AND FOR PVC PIPE

RUBBER FLAPPER CHECK VALVE

RESILIENT SEATED GATE VALVE SOCKET AND FOR PVC PIPE

SILIENT CHECK VALVE

WAFFER CHECK VALVE

SILIENT TILTING DISC HYDRAULIC CHECK VALVE

SILIENT TILTING DISC HYDRAULIC CHECK VALVE

BUTTERFLY VALVE WITH LEVER

BUTTERFLY VALVE WITH GEARBOX

FLANGED BUTTERFLY VALVE WITH LEVER

DOUBLE FLANGED BUTTERFLY VALVE WITH GEARBOX

DOUBLE FLANGED BUTTERFLY VALVE WITH LEVER

WAFFER BUTTERFLY VALVE WITH SIGNAL OPERATION

Y-STRAINER

FOOT VALVE

SINGLE BALL AIR RELEASE VALVE THREAD TYPE

SINGLE BALL AIR RELEASE VALVE FLANGED TYPE

THREADED - CONNECTION EXPANSION JOINTS

SINGLE-SPHERE RUBBER EXPANSION JOINTS

SINGLE-SPHERE RUBBER EXPANSION JOINTS

DUAL-SPHERE RUBBER EXPANSION JOINTS

PRESSURE REDUCING VALVE

SURGE ANTICIPATING VALVE

PRESSURE RELIEF VALVE

FLOAT LEVE CONTROL VALVE

ELECTRIC CONTROL VALVE

ALARM CHECK VALVE

DELUGE VALVE

INDOOR HYDRANT ANGLE VALVE

OUT DOOR FIRE HYDRANT

COUPLING SERIES GOST ADAPTOR

PRESSURE REDUCING ANGLE HYDRANT VALVE



AUTA

Email: info@autavalves.com.my

<http://autavalves.com.my>