



Shandong Lede Machinery Co.Ltd

Best manufacturer of valves







■ About us

Shandong Lede Machinery Co.,Ltd is one modernized enterprise engaging in designing and producing on valves such as gate valve, butterfly valve, check valve and deluge valve etc.

“LEDE” is dedicated in supplying best valves to the customers, the valves are researched according to the up-to-date international standard like AWWA C515, EN1074, EN1171, EN593, MSS SP-67, ISO5752, etc. All of our valves can resist higher pressure with small torque. The self-seal center-line type butterfly valve is one kind of new designed and innovative valve with micro interference between rubber disc and valve channel which can decrease the abrasion of the seal face and increase the life of valves, with its self-seal structure, the sealing property is proportional to fluid pressure, so the valves can resist very high pressure, at the same time, the seal lip on the disc can remove the mud and dirt during the closing of the valves. “LEDE” has got global patent of self-seal center-line type butterfly valves.

“LEDE” owns two big foundries with advanced electric furnaces and automatic casting lines, the product is machined with CNC and the finish is done with high quality of epoxy powder. The mold center keeps developing new products that can satisfy diverse demands from different customers.

“LEDE” valves have been sold to America, European countries, Russia, Canada, Australia, Middle East, Asia, South America and some other areas.

“LEDE” valves are wildly used in various fields as follows:

- Automatic sprinkler system for Fire Fighting Protection on Commercial, Civil and Municipal constructions like water supplying, gas supplying, heat supplying, drainage, air conditioning etc.
- Industrial pipeline system on shipping, mine, oil field, textile, power plant, paper making, beverage and steel making etc.
- Pipeline system on subway station, railway station , airport, seaport, bridge, channel etc.

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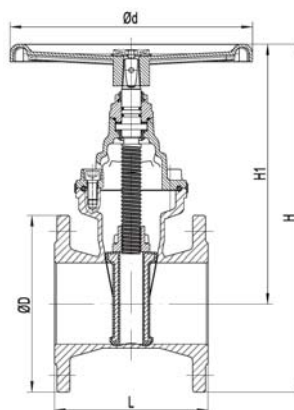
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DIN F4 Resilient seated NRS gate valve-flange end

Model No. Z45X-01



Name of parts	Material
Body	Ductile iron
Wedg	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Upper cover	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

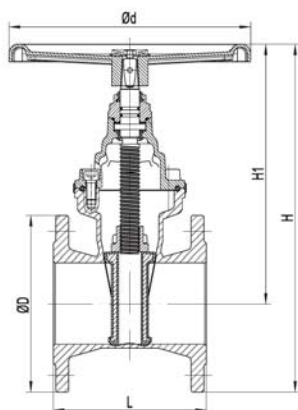
- Sizes: DN50~DN600
- Working pressure: PN10/PN16
- Valve standard: EN1171
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)				
DN	inch	PN	φD	L	H1	H	φd
50	2	10/16	165	150	256	338.5	203
65	2.5	10/16	185	170	256	348.5	203
80	3	10/16	200	180	273.5	373.5	203
100	4	10/16	220	190	323.5	433.5	254
125	5	10/16	250	200	376	501	300
150	6	10/16	285	210	423.5	566	300
200	8	10	340	230	530.5	700.5	406
		16	340		530.5	700.5	
250	10	10	400	250	645	845	406
		16	400		645	845	
300	12	10	455	270	725.5	953	406
		16	455		725.5	953	
350	8	10	505	290	814	1066.5	500
		16	520		814	1074	
400	10	10	565	310	935	1217.5	600
		16	580		935	1225	
500	12	10	670	350	1154	1489	700
		16	715		1154	1511.5	
600	12	10	780	390	1318	1708	700
		16	840		1318	1738	

DIN F4 Resilient seated NRS gate valve-flange end

Model No. Z45X-01

Name of parts	Material
Body	Ductile iron
Wedge	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Upper cover	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

- Sizes :DN50~DN300
- Working pressure: PN25/PN40
- Valve standard: EN1171
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C



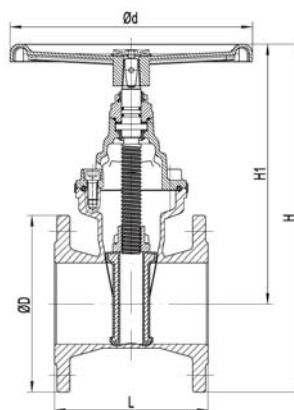
Dimensions		Pressure rating	Size (mm)				
DN	inch	PN	φD	L	H1	H	φd
50	2	25	165	150	256	338.5	203
		40	165				
65	2.5	25	185	170	256	348.5	203
		40	185				
80	3	25	200	180	273.5	373.5	203
		40	200				
100	4	25	235	190	323.5	441	254
		40	235				
125	5	25	270	200	376	511	300
		40	270				
150	6	25	300	210	423.5	573.5	300
		40	300				
200	8	25	360	230	530.5	710.5	406
		40	375			718	
250	10	25	425	250	645	857.5	406
		40	450			870	
300	12	25	485	270	725.5	968	406
		40	515			983	

BS5163 Resilient seated NRS gate valve-flange end

Model No. Z45X-02



Name of parts	Material
Body	Ductile iron
Wedg	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Upper cover	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

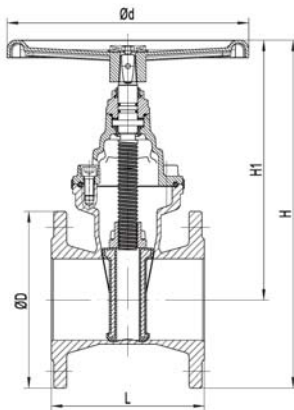
- Sizes: DN50~DN600
- Working pressure: PN10/PN16
- Valve standard: BS5163
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)				
DN	inch	PN	φD	L	H1	H	φd
50	2	10/16	165	178	256	338.5	203
65	2.5	10/16	185	190	256	348.5	203
80	3	10/16	200	203	273.5	373.5	203
100	4	10/16	220	229	323.5	433.5	254
125	5	10/16	250	254	376	501	300
150	6	10/16	285	267	423.5	566	300
200	8	10	340	292	530.5	700.5	406
		16	340		530.5	700.5	
250	10	10	400	330	645	845	406
		16	400		645	845	
300	12	10	455	356	725.5	953	406
		16	455		725.5	953	
350	14	10	505	381	814	1066.5	500
		16	520		814	1074	
400	16	10	565	406	935	1217.5	600
		16	580		935	1225	
500	20	10	670	457	1154	1489	700
		16	715		1154	1511.5	
600	24	10	780	508	1318	1708	700
		16	840		1318	1738	

BS5163 Resilient seated NRS gate valve-flange end

Model No. Z45X-02

Name of parts	Material
Body	Ductile iron
Wedge	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Upper cover	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

- Sizes: DN50~DN300
- Working pressure: PN25/PN40
- Valve standard: BS5163
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C

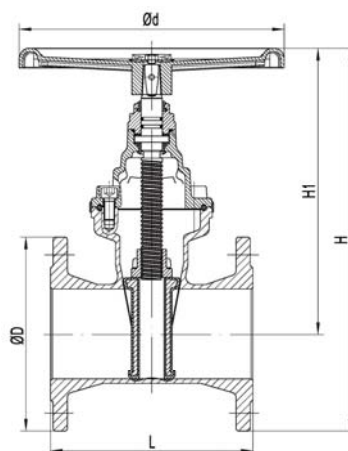


Dimensions		Pressure rating	Size (mm)				
DN	inch	PN	φD	L	H1	H	φd
50	2	25	165	178	256	338.5	203
		40	165				
65	2.5	25	185	190	256	348.5	203
		40	185				
80	3	25	200	203	273.5	373.5	203
		40	200				
100	4	25	235	229	323.5	441	254
		40	235				
125	5	25	270	254	376	511	300
		40	270				
150	6	25	300	267	423.5	573.5	300
		40	300				
200	8	25	360	292	530.5	710.5	406
		40	375			718	
250	10	25	425	330	645	857.5	406
		40	450			870	
300	12	25	485	356	725.5	968	406
		40	515			983	

AWWA C515 Resilient seated NRS gate valve-flange end

Model No. 1110

Name of parts	Material
Body	Ductile iron
Wedg	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Upper cover	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

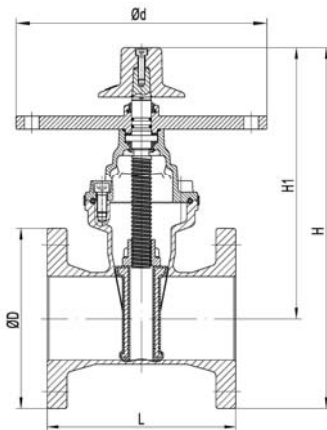
- Sizes: 2" ~ 24"
- Working pressure: 300PSI
- Valve standard: AWWA C515
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)				
DN	inch	psi	φD	L	H1	H	φd
50	2	300	152	178	256	332	203
65	2.5	300	178	190	256	345	203
80	3	300	191	203	273.5	369	203
100	4	300	229	229	323.5	438	254
125	5	300	254	254	376	503	300
150	6	300	279	267	423.5	563	300
200	8	300	343	292	530.5	702	406
250	10	300	406	330	645	848	406
300	12	300	483	356	725.5	967	406
350	14	300	533	381	814	1080.5	500
400	16	300	597	406	935	1233.5	600
500	20	300	699	457	1154	1503.5	700
600	24	300	813	508	1318	1724.5	700

AWWA C515 Resilient seated NRS gate valve-flange end with indicator post flange

Model No. Z45X-04

Name of parts	Material
Body	Ductile iron
Wedg	Ductile iron+EPDM
Stem Nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Indicator Post Flange	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Wrench Nut	Ductile iron



Technical data >

- Sizes: 2" ~ 24"
- Working pressure: 300PSI
- Valve standard: AWWA C515
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0 ~ 80°C

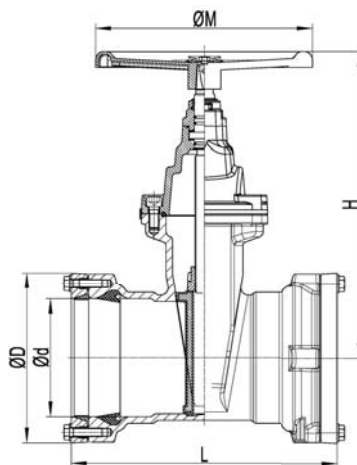


Dimensions		Pressure rating	Size (mm)				
DN	inch	psi	φD	L	H1	H	φd
100	4	300	229	229	323.5	438	254
125	5	300	254	254	376	503	300
150	6	300	279	267	423.5	563	300
200	8	300	343	292	530.5	702	406
250	10	300	406	330	645	848	406
300	12	300	483	356	725.5	967	406
350	14	300	533	381	814	1080.5	500
400	16	300	597	406	935	1233.5	600
500	20	300	699	457	1154	1503.5	700
600	24	300	813	508	1318	1724.5	700

Resilient seated NRS gate valve HDPE joint end



Name of parts	Material
Body	Ductile iron
Wedg	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Upper cover	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron
Grip ring	HPb59-1
Rock ring	Ductile iron



Technical data >

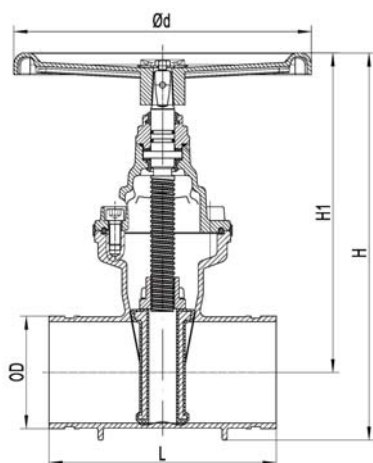
- Sizes: DN50~DN300
- Working pressure: PN10/PN16
- Valve standard: BS5163
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)				
DN	inch	PN	φD	φd	L	H	φM
50	2	10/16	125	63	270	256	203
65	2.5	10/16	139	75	280	256	203
80	3	10/16	152	90	290	273.5	203
100	4	10/16	178	110	295	323.5	254
			200	125	300		
125	5	10/16	200	125	325	376	300
			214	140	330		
150	6	10/16	233	160	365	423.5	300
			255	180	380		
200	8	10/16	285	200	420	530.5	406
			315	225	430		
250	10	10/16	339	250	460	645	406
			368	280	470		
300	12	10/16	425	315	575	725.5	406

Resilient seated NRS gate valve grooved end

Model No. Z85X

Name of parts	Material
Body	Ductile iron
Wedg	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Upper cover	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

- Sizes: DN50/60~DN300/324
- Working pressure: PN25, 362PSI
- Valve standard: AWWA C515
- Grooved standard: AWWA C606
- Temperature range: 0 ~ 80°C



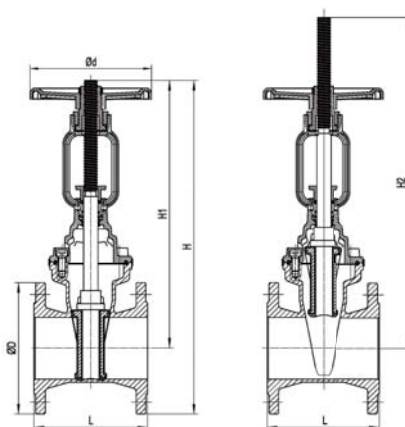
Dimensions		Pressure rating	Size (mm)				
DN	inch	psi	φD	L	H1	H	φd
50	2	362	60.3	178	256	301	203
65	2.5	362	73	190	256	307.5	203
			76.1			309	
80	3	362	88.9	203	273.5	333	203
100	4	362	114.3	229	323.5	396	254
125	5	362	139.7	254	376	461	300
			141.3			462	
150	6	362	165.1	267	423.5	521	300
			168.3			523	
200	8	362	219.1	292	530.5	660	406
250	10	362	273	330	636	797	406
300	12	362	323.9	356	719	911	406

DIN F4 Resilient seated OS&Y gate valve-flange end

Model No. Z41X-01



Name of parts	Material
Body	Ductile iron
Wedg	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304, SS316, bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Yoke	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

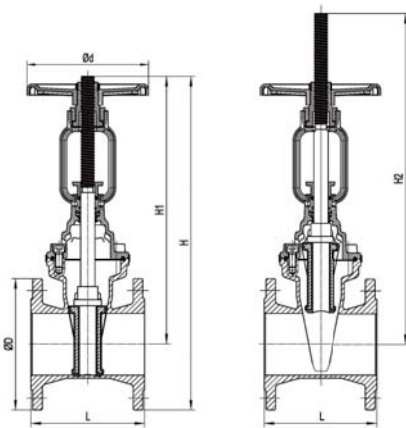
- Sizes: DN50~DN600
- Working pressure: PN10/PN16
- Valve standard: EN1171
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	φD	L	H1	H2	H	φd
50	2	10/16	165	150	358.5	420.5	441	203
65	2.5	10/16	185	170	359.5	429.5	452	203
80	3	10/16	200	180	378	462	478	203
100	4	10/16	220	190	449.5	553	559.5	203
125	5	10/16	250	200	549.5	677	674.5	300
150	6	10/16	285	210	591.5	747	734	300
200	8	10	340	230	735.5	938	559.5	406
		16	340				567	
250	10	10	400	250	900.5	1161	674.5	406
		16	400				684.5	
300	12	10	455	270	1045.5	1353	734	406
		16	455				741.5	
350	14	10	505	290	1232	1585	905.5	500
		16	520				915.5	
400	16	10	565	310	1402	1805	1100.5	600
		16	580				1113	
500	20	10	670	350	1733	2238	1273	700
		16	715				1288	
600	24	10	780	390	2000	2605	1273	700
		16	840				1288	

DIN F4 Resilient seated OS&Y gate valve-flange end

Model No. Z41X-01

Name of parts	Material
Body	Ductile iron
Wedge	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Upper cover	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

- Sizes: DN50~DN300
- Working pressure: PN25/PN40
- Valve standard: EN1171
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C



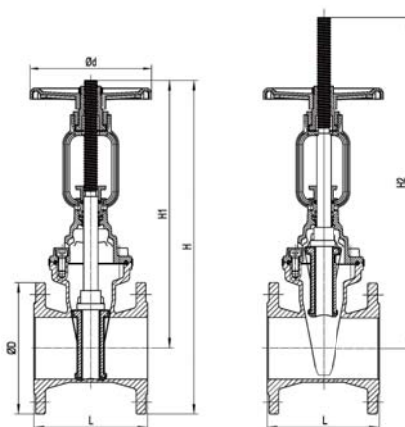
Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	φD	L	H1	H2	H	φd
50	2	25	165	150	358.5	420.5	441	203
		40	165					
65	2.5	25	185	170	359.5	429.5	452	203
		40	185					
80	3	25	200	180	378	462	478	203
		40	200					
100	4	25	235	190	449.5	553	567	203
		40	235				567	
125	5	25	270	200	549.5	677	684.5	300
		40	270				684.5	
150	6	25	300	210	591.5	747	741.5	300
		40	300				741.5	
200	8	25	360	230	735.5	938	915.5	330
		40	375				923	
250	10	25	425	250	900.5	1161	1113	406
		40	450				1125.5	
300	12	25	485	270	1045.5	1353	1288	406
		40	515				1303	

BS5163 Resilient seated OS&Y gate valve-flange end

Model No. Z41X-02



Name of parts	Material
Body	Ductile iron
Wedg	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Yoke	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



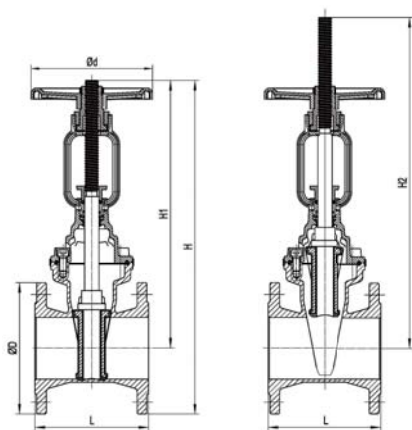
Technical data >

- Sizes: DN50~DN600
- Working pressure: PN10/PN16
- Valve standard: BS5163
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	φD	L	H1	H2	H	φd
50	2	10/16	165	178	358.5	420.5	441	203
65	2.5	10/16	185	190	359.5	429.5	452	203
80	3	10/16	200	203	378	462	478	203
100	4	10/16	220	229	449.5	553	559.5	203
125	5	10/16	250	254	549.5	677	674.5	300
150	6	10/16	285	267	591.5	747	734	300
200	8	10	340	292	735.5	938	559.5	406
		16	340				567	
250	10	10	400	330	900.5	1161	674.5	406
		16	400				684.5	
300	12	10	455	356	1045.5	1353	734	406
		16	455				741.5	
350	14	10	505	381	1232	1585	905.5	500
		16	520				915.5	
400	16	10	565	406	1402	1805	1100.5	600
		16	580				1113	
500	20	10	670	457	1733	2238	1273	700
		16	715				1288	
600	24	10	780	508	2000	2605	1273	700
		16	840				1288	

BS5163 Resilient seated OS&Y gate valve-flange end
Model No. Z41X-02

<i>Name of parts</i>	<i>Material</i>
Body	Ductile iron
Wedge	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Upper cover	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron


Technical data

- Sizes: DN50~DN300
- Working pressure: PN25/PN40
- Valve standard: EN1171
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C



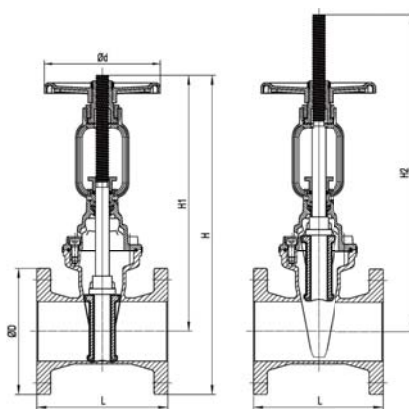
<i>Dimensions</i>		<i>Pressure rating</i>	<i>Size (mm)</i>					
DN	inch	PN	φD	L	H1	H2	H	φd
50	2	25	165	178	358.5	420.5	441	203
		40	165					
65	2.5	25	185	190	359.5	429.5	452	203
		40	185					
80	3	25	200	203	378	462	478	203
		40	200					
100	4	25	235	229	449.5	553	567	203
		40	235				567	
125	5	25	270	254	549.5	677	684.5	300
		40	270				684.5	
150	6	25	300	267	591.5	747	741.5	300
		40	300				741.5	
200	8	25	360	292	735.5	938	915.5	330
		40	375				923	
250	10	25	425	330	900.5	1161	1113	406
		40	450				1125.5	
300	12	25	485	356	1045.5	1353	1288	406
		40	515				1303	

AWWA C515 Resilient seated OS&Y gate valve-flange end

Model No. Z45X-03



Name of parts	Material
Body	Ductile iron
Wedg	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Upper cover	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

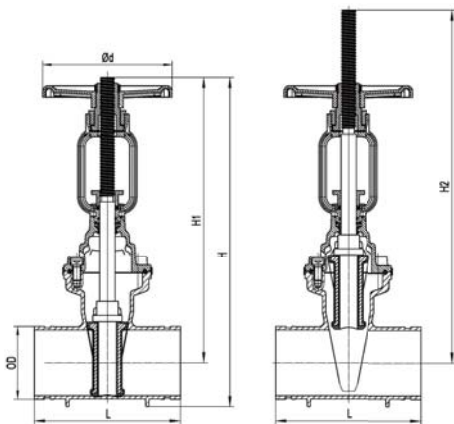
- Sizes: 2" ~ 24"
- Working pressure: 300PSI
- Valve standard: AWWA C515
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)					
DN	inch	psi	φD	L	H1	H2	H	φd
50	2	300	152	178	358.5	420.5	434.5	203
65	2.5	300	178	190	359.5	429.5	448.5	203
80	3	300	191	203	378	462	473.5	203
100	4	300	229	229	449.5	553	564	254
125	5	300	254	254	549.5	677	676.5	300
150	6	300	279	267	591.5	747	731	300
200	8	300	343	292	735.5	938	907	406
250	10	300	406	330	900.5	1161	1103.5	406
300	12	300	483	356	1045.5	1353	1287	406
350	14	300	533	381	1232	1585	1498.5	500
400	16	300	597	406	1402	1805	1700.5	600
500	20	300	699	457	1733	2238	2082.5	700
600	24	300	813	508	2000	2605	2406.5	700

Resilient seated OS&Y gate valve-grooved end

Model No. Z81X

Name of parts	Material
Body	Ductile iron
Wedge	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Yoke	Ductile iron
Sliding disc	POM
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

- Sizes: DN50/60~DN200/219
- Working pressure: PN25, 362PSI
- Valve standard: AWWA C515
- Grooved standard: AWWA C606
- Temperature range: 0 ~ 80°C

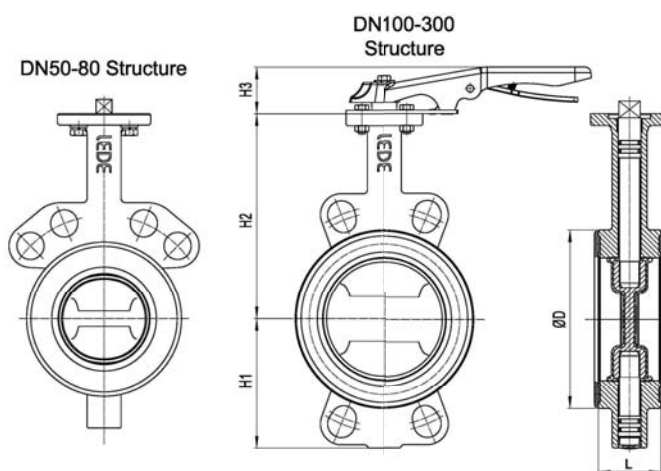
Dimensions		Pressure rating	Size (mm)					
DN	inch	psi	φD	L	H1	H2	H	φd
50	2	362	60.3	178	358.5	420.5	403.5	203
65	2.5	362	73	190	359.5	429.5	411	203
			76.1					
80	3	362	88.9	203	378	462	437.5	203
100	4	362	114.3	229	449.5	553	518.5	203
125	5	362	139.7	254	549.5	677	631	300
			141.3					
150	6	362	165.1	267	591.5	747	686	300
			168.3					
200	8	362	219.1	292	735.5	938	865	330
250	10	362	273	330	890	1151	1051	406
300	12	362	323.9	356	1031.5	1341.5	1224	406

Wafer butterfly valve with lever handle

Model No. D71X



Name of parts	Material
Body	Ductile iron
Plug	EPDM
Driven shaft	1Cr17Ni2 or 2Cr13
Disc	Ductile iron and EPDM
Actuating shaft	1Cr17Ni2 or 2Cr13
Bearing bush	Bronze
O-rings	EPDM
Gear operator	Ductile iron and steel



Technical data >

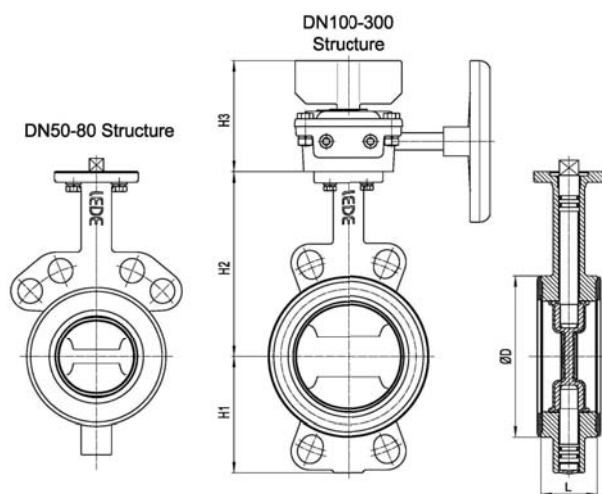
- Sizes: DN50~DN300
- Working pressure: PN10/16/PN25
- Valve standard: EN593
- Flange standard: EN1092-2 and ASME-B16.1 Class125
- Top Flange standard: EN ISO 5211
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	φD	L	H1	H2	H3	Top Flange
50	2	10/16/25	91	43	70	125	103	F05
65	2.5	10/16/25	108	46	76	143.5	103	F05
80	3	10/16/25	124	46	94	151	103	F05
100	4	10/16/25	150	52	108	172	103	F07
125	5	10/16/25	178	56	127	190	103	F07
150	6	10/16/25	205	56	139	202	103	F07
200	8	10/16/25	260	60	175	235	109	F07

Wafer butterfly valve with gear operator

Model No. D371X

Name of parts	Material
Body	Ductile iron
Plug	EPDM
Driven shaft	1Cr17Ni2 or 2Cr13
Disc	Ductile iron and EPDM
Actuating shaft	1Cr17Ni2 or 2Cr13
Bearing bush	Bronze
O-rings	EPDM
Gear operator	Ductile iron and steel



Technical data >

- Sizes: DN50~DN300
- Working pressure: PN10/16/PN25
- Valve standard: EN593
- Flange standard: EN1092-2 and ASME-B16.1 Class125
- Top Flange standard: EN ISO 5211
- Temperature range: 0 ~ 80°C

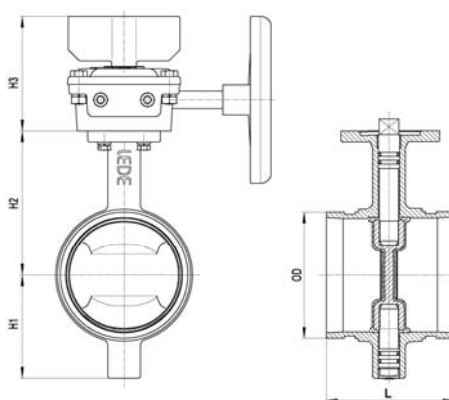
Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	φD	L	H1	H2	H3	Top Flange
50	2	10/16/25	91	43	70	125	103	F05
65	2.5	10/16/25	108	46	76	143.5	103	F05
80	3	10/16/25	124	46	94	151	103	F05
100	4	10/16/25	150	52	108	172	103	F07
125	5	10/16/25	178	56	127	190	103	F07
150	6	10/16/25	205	56	139	202	103	F07
200	8	10/16/25	260	60	175	235	109	F07
250	10	10/16/25	313	68	210	265	109	F10
300	12	10/16/25	364	78	238	285	109	F10

Grooved butterfly valve with gear operator

Model No. D381X



Name of parts	Material
Body	Ductile iron
Plug	EPDM
Driven shaft	1Cr17Ni2
Disc	Ductile iron and EPDM
Actuating shaft	1Cr17Ni2
Bearing bush	Bronze
O-rings	EPDM
Gear operator	Ductile iron and steel



Technical data >

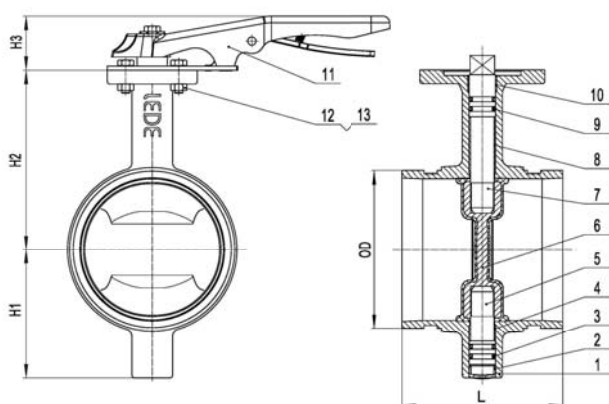
- Sizes: 60.3~219.1
- Working pressure: PN25, 362 psi
- Valve standard: MSS SP-67
- Grooved standard: AWWA C606
- Top Flange standard: EN ISO 5211
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	φD	L	H1	H2	H3	Top Flange
50	2	10/16/25	60.3	81	81	91	103	F05
65	2.5	10/16/25	73	96.8	96.8	104	103	F05
			76.1					
80	3	10/16/25	88.9	96.8	75	111	103	F07
100	4	10/16/25	114.3	115.8	93	130	103	F07
125	5	10/16/25	139.7	147.6	111	153	103	F07
			141.3		111	153		
150	6	10/16/25	165.1	147.6	123	165	103	F07
			168.3		123	165		
200	8	10/16/25	219.1	133.4	160	194	109	F07

Grooved butterfly valve with lever handle

Model No. D81X

Name of parts	Material
Body	Ductile iron
Plug	EPDM
Driven shaft	1Cr17Ni2
Disc	Ductile iron and EPDM
Actuating shaft	1Cr17Ni2
Bearing bush	Bronze
O-rings	EPDM
Lever handle	Ductile iron or steel



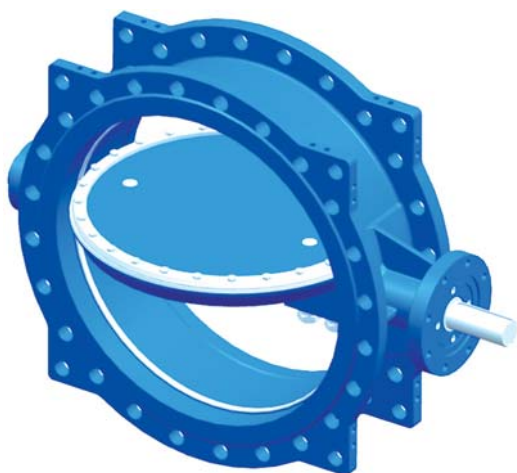
Technical data >

- Sizes: 60.3~219.1
- Working pressure: PN25, 362 psi
- Valve standard: MSS SP-67
- Grooved standard: AWWA C606
- Top Flange standard: EN ISO 5211
- Temperature range: 0 ~ 80°C

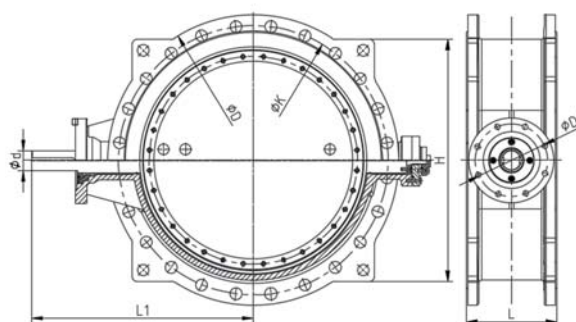
Dimensions		Pressure rating	Size (mm)					
DN	inch	psi	φD	L	H1	H2	H3	Top Flange
50	2	362	60.3	81	56	91	39	F05
65	2.5	362	73	96.8	68	104	39	F05
			76.1					
80	3	362	88.9	96.8	75	111	39	F07
100	4	362	114.3	115.8	93	130	39	F07
125	5	362	139.7	147.6	111	153	39	F07
			141.3		111	153		
150	6	362	165.1	147.6	123	165	39	F07
			168.3		123	165		
200	8	232	219.1	133.4	160	194	39	F07

Double eccentric butterfly valve

Model No. D42X



Name of parts	Material
Body	Ductile iron
Disc	Ductile iron
Seat ring	Stainless Stell
Retaining ring	Stainless Stell
Sealing ring	EPDM
shaft	Stainless Stell
Bearing bush	Bronze
O-rings	EPDM



Technical data >

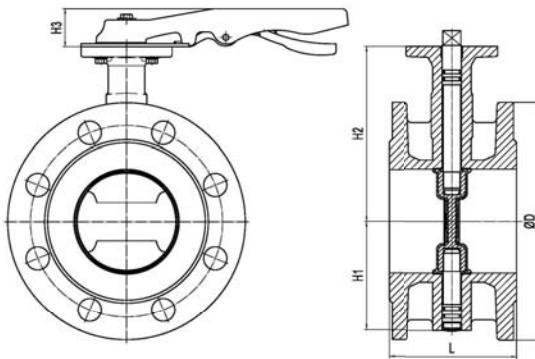
- Sizes :DN300~DN800
- Working pressure: PN10/16/PN25
- Valve standard: EN593
- Flange standard: EN1092-2 and ASME-B16.1 Class125
- Top Flange standard: EN ISO 5211
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	φD	φK	L	φD1	H	L1
300	12	10	445	400	178	150	418	315
		16	460	410			428	
350	14	10	505	460	190	175	462	364
		16	520	470			476	
400	16	10	565	515	216	175	510	420
		16	580	525			520	
450	18	10	615	565	222	175	550	445
		16	640	585			560	
500	20	10	670	620	229	210	570	497
		16	715	650			620	
600	24	10	780	725	267	210	650	573
		16	840	770			710	
700	28	10	895	840	292	254	755	698
		16	910	840			770	
800	32	10	1015	950	318	254	845	780
		16	1025	950			854	

Butterfly valve with lever handle flange end

Model No. D41X

Name of parts	Material
Body	Ductile iron
Plug	EPDM
Driven shaft	1Cr17Ni2 or 2Cr13
Disc	Ductile iron and EPDM
Actuating shaft	1Cr17Ni2 or 2Cr13
Bearing bush	Bronze
O-rings	EPDM
Lever handle	Ductile iron and steel



Technical data >

- Sizes: DN50~DN300
- Working pressure: PN10/16/PN25
- Valve standard: EN593
- Flange standard: EN1092-2 and ASME-B16.1 Class125
- Top Flange standard: EN ISO 5211
- Temperature range: 0 ~ 80°C

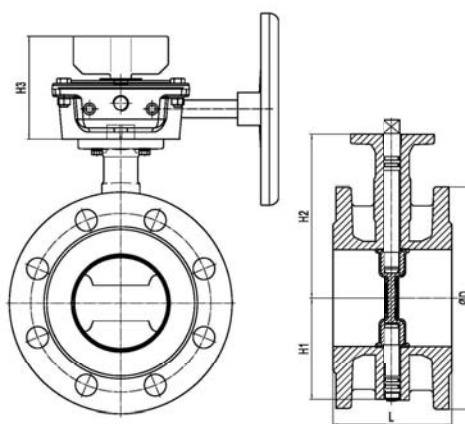
Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	φD	L	H1	H2	H3	Top Flange
50	2	10/16/25	165	108	70	125	39	F05
65	2.5	10/16/25	185	112	76	143.5	39	F05
80	3	10/16/25	200	114	94	151	39	F05
100	4	PN10/16	220	127	108	173	39	F07
		PN25	235					
125	5	PN10/16	250	140	127	190	39	F07
		PN25	270					
150	6	PN10/16	285	140	139	202	39	F07
		PN25	300					
200	8	PN10/16	340	152	175	233	39	F07
		PN25	360					

Butterfly valve with gear operator flange end

Model No. D341X



Name of parts	Material
Body	Ductile iron
Plug	EPDM
Driven shaft	1Cr17Ni2 or 2Cr13
Disc	Ductile iron and EPDM
Actuating shaft	1Cr17Ni2 or 2Cr13
Bearing bush	Bronze
O-rings	EPDM
Gear operator	Ductile iron and steel



Technical data >

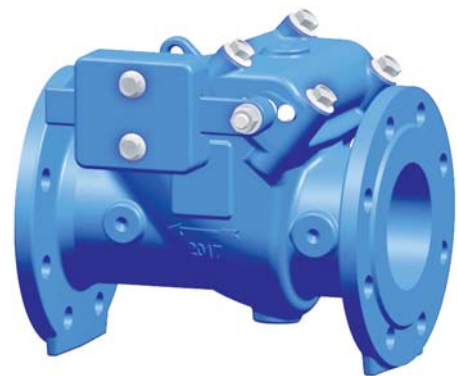
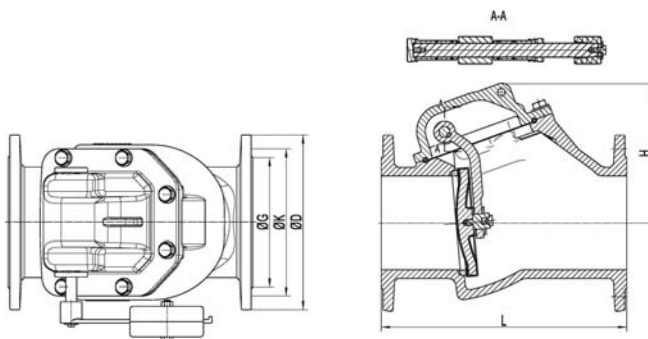
- Sizes: DN50~DN300
- Working pressure: PN10/16/PN25
- Valve standard: EN593
- Flange standard: EN1092-2 and ASME-B16.1 Class125
- Top Flange standard: EN ISO 5211
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	φD	L	H1	H2	H3	Top Flange
50	2	10/16/25	165	108	70	125	103	F05
65	2.5	10/16/25	185	112	76	143.5	103	F05
80	3	10/16/25	200	114	94	151	103	F05
100	4	PN10/16	220	127	108	173	103	F07
		PN25	235					
125	5	PN10/16	250	140	127	190	103	F07
		PN25	270					
150	6	PN10/16	285	140	139	202	103	F07
		PN25	300					
200	8	PN10/16	340	152	175	233	109	F07
		PN25	360					
250	10	PN10/16	400	165	210	265	109	F10
		PN25	425					
300	12	PN10/16	455	178	238	285	109	F10
		PN25	485					

BS5153 resilient seated swing Check valve flange end

Name of parts	Material
Body	Ductile iron
Bonnet	Ductile iron
Disc	Ductile iron+EPDM
Seat Ring	Bronze
Clapper Arm	SS304
Extended Hinge Pin	SS304
Bonnet Gasket	EPDM
Hinge Bushing	Bronze
Lever	Ductile iron
Weight	Ductile iron

Model No.700



Technical data >

- Sizes : DN50~400
- Working pressure: PN10/16/25
- Valve standard: BS5153
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C

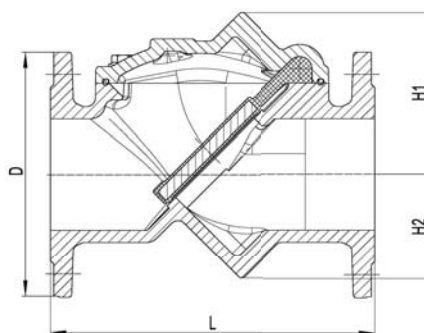
Dimensions		Pressure rating	Size (mm)				
DN	inch	PN	φD	φK	φG	L	H
50	2	10/16	165	125	108	203	125
65	2.5	10/16	185	145	118	216	138
80	3	10/16	200	160	132	241	152
100	4	10/16	220	180	156	292	183
125	5	10/16	250	210	184	330	221
150	6	10/16	285	240	211	356	226
200	8	10	340	295	266	495	300
		16	340	295	266	495	300
250	10	10	400	350	319	622	338
		16	400	355	319		
300	12	10	455	400	370	698	405
		16	455	410	370		
350	14	10	505	460	429	787	470
		16	520	470	429		
400	16	10	565	515	480	914	540
		16	580	525	480		

45° Resilient seated swing Check valve flange end

Model No.701



Name of parts	Material
Body	Ductile iron
Bonnet	Ductile iron
Disc	Ductile iron+EPDM
Bonnet Gasket	EPDM
Bolt	Carbon Steel or SS304



Technical data >

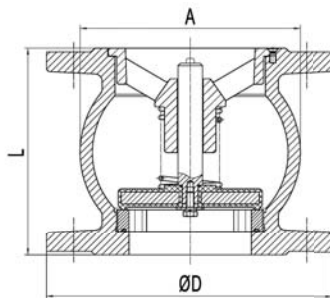
- Sizes: DN50~300
- Working pressure: PN10/16
- Valve standard: BS5153
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)			
DN	inch	PN	φD	L	H1	H2
50	2	10	165	203	67.5	62
65	2.5	10	185	216	79	75
80	3	10	200	241	133	86
100	4	10	220	292	148	95
125	5	10	250	330	167.5	110
150	6	10	285	256	191.5	142
200	8	10	340	495	248	170
		16	340			
250	10	10	400	622	306	200
		16	400			
300	12	10	455	698	343	225
		16	455			

Silent check valve

Name of parts	Material
Body	Ductile iron
Bonnet	Ductile iron
Disc	Ductile iron+EPDM
Support	Bronze
Shaft	Stainless Stell
Spring	Stainless Stell

Model No.702



Technical data >

- Sizes: DN50~200
- Working pressure: PN10/16/25
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)		
DN	inch	PN	φD	L	A
50	2	PN10/16	165	100	98
		PN25			
65	2.5	PN10/16	185	120	124
		PN25			
80	3	PN10/16	200	140	146
		PN25			
100	4	PN10/16	220	170	180
		PN25	235		
125	5	PN10/16	250	200	220
		PN25	270		
150	6	PN10/16	285	230	256
		PN25	300		
200	8	PN10/16	340	288	330
		PN25	360		

Non Slam nozzle check valve

Model No. 703



Technical data

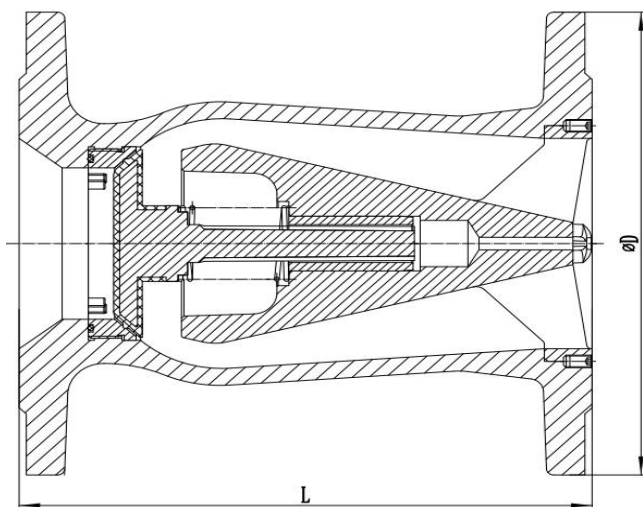
Sizes : DN50~200

Working pressure: PN10/16

Flange standard: EN1092-2

Temperature range: 0 ~ 80°C

Name of parts	Material
Body	Ductile iron
Inter body	Ductile iron
Disc	Stainless Stell+EPDM
Bush	Bronze/Brass
Seat	Stainless Stell
Spring	Stainless Stell



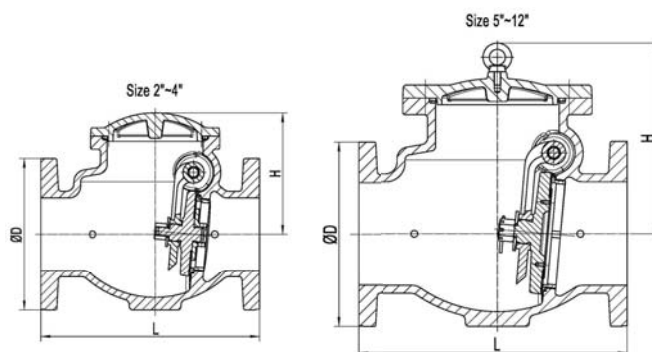
Dimensions		Pressure rating	Size (mm)	
DN	inch		ΦD	L
50	2	PN10/16	165	120
65	2.5	PN10/16	185	150
80	3	PN10/16	200	180
100	4	PN10/16	220	240
125	5	PN10/16	250	300
150	6	PN10/16	285	350
200	8	PN10/16	340	450

AWWA C508 resilient seated swing Check valve flange end

Model No. H44X



Name of parts	Material
Body	Ductile iron
Seat Ring	Bronze
Disc Sealing Ring	EPDM
Disc Plate	SS304
Disc	Ductile iron
Clapper Arm	Ductile iron
Bonnet Gasket	EPDM
Bonnet	Ductile iron
Hinge Pin	SS304
Hinge Bushing	Bronze
Hinge Plug	SS304



Technical data >

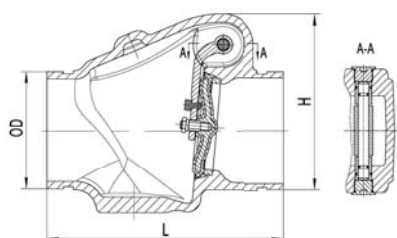
- Sizes: 2"~12"
- Working pressure: 300psi
- Valve standard: AWWA C508
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)		
DN	inch	psi	φD	L	H
50	2	300	152	203	125
65	2.5	300	178	254	139
80	3	300	191	279	153
100	4	300	229	330	184
125	5	300	254	356	275
150	6	300	279	406	289
200	8	300	343	495	352
250	10	300	406	559	411
300	12	300	483	660	480

Resilient seated swing Check valve grooved end

Model No. H84X

Name of parts	Material
Body	Ductile iron
Seat Ring	SS304
Disc	Ductile iron+EPDM
Stopper	EPDM
Hinge Pin	SS304
Hinge Bushing	Bronze
Hinge Plug	SS304
Clapper Arm	SS304



Technical data >

- Sizes: 2"~12"
- Working pressure: 362psi
- Grooved standard: AWWA C606
- Temperature range: 0 ~ 80°C

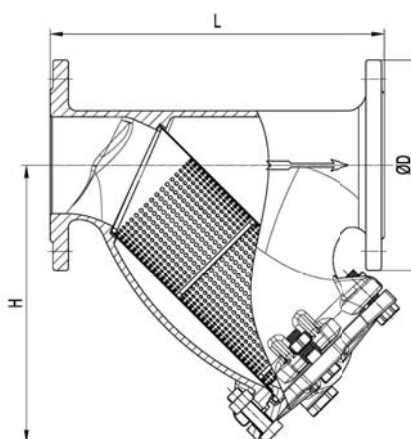


Dimensions		Pressure rating	Size (mm)		
DN	inch	psi	φD	L	H
50	2	362	60.3	167	122.5
65	2.5	362	73	180	136.5
			76.1		
80	3	362	88.9	198	165.5
100	4	362	114.3	229	193.5
125	5	362	139.7	254	235.5
			141.3		
150	6	362	165.1	272	252
			168.3		
200	8	362	219.1	330	314.5
250	10	362	273	435	360
300	12	362	323.9	510	424.5

Y-Strainer flange end

Model No. 6101

Name of parts	Material
Body	Ductile iron
Cover	Ductile iron
Gasket	EPDM
Screen	SS304
Plug	Bronze



Technical data >

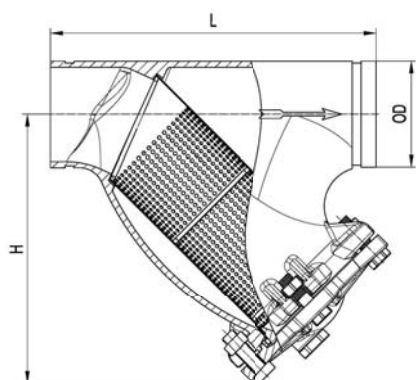
- Sizes: DN50~300
- Working pressure: PN10/16/25
- Flange standard: EN1092-2 and ASME-B16.1 Class125
- Temperature range: 0 ~ 80°C

Dimensions		Pressure rating	Size (mm)		
DN	inch	PN	φD	L	H
50	2	PN10/16/25	165	230	154
65	2.5	PN10/16/25	185	290	201
80	3	PN10/16/25	200	310	210
100	4	PN10/16/25	220	350	269
125	5	PN10/16/25	250	400	320
150	6	PN10/16/25	285	480	357
200	8	PN10/16/25	340	550	442

Y-Strainer grooved end

Model No. 6102

Name of parts	Material
Body	Ductile iron
Cover	Ductile iron
Gasket	EPDM
Screen	SS304
Plug	Bronze



Technical data >

- Sizes: DN50~200
- Working pressure: PN10/16/25
- Grooved standard: AWWA C606
- Temperature range: 0 ~ 80°C

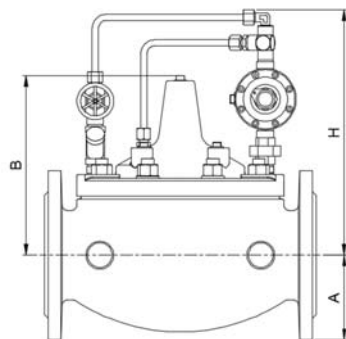
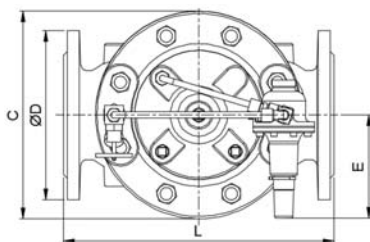


Dimensions		Pressure rating	Size (mm)		
DN	inch	PN	φD	L	H
50	2	PN10/16/25	60.3	230	154
65	2.5	PN10/16/25	73	290	201
			76.1		
80	3	PN10/16/25	88.9	310	210
100	4	PN10/16/25	114.3	350	269
125	5	PN10/16/25	139.7	400	320
			141.3		
150	6	PN10/16/25	165.1	480	357
			168.3		
200	8	PN10/16/25	219.1	550	442

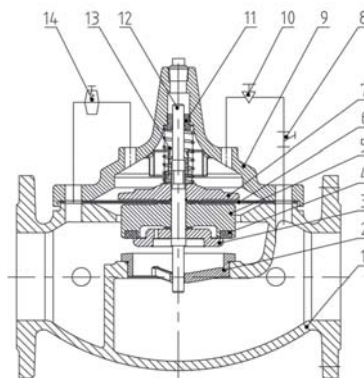
Pressure reducing valve

Technical data >

- Sizes: DN50~200
- Working pressure: PN10/16
- Flange standard: EN1092-2 and ASME-B16.1 Class125
- Temperature range: 0 ~ 80°C



No.	Name of parts	Material
1	Body	Ductile iron
2	Seat	SS304
3	Disc Guide	SS304
4	Disc Gasket	EPDM
5	Disc	Ductile iron
6	Diaphragm	EPDM+Nylon
7	Diaphragm Washer	Ductile iron
8	Strainer	SS304
9	Cover	Ductile iron
10	Needle Valve	SS304
11	Cover Bearing	SS304
12	Stem	SS304
13	Spring	SS304
14	Pilot Valv	SS304



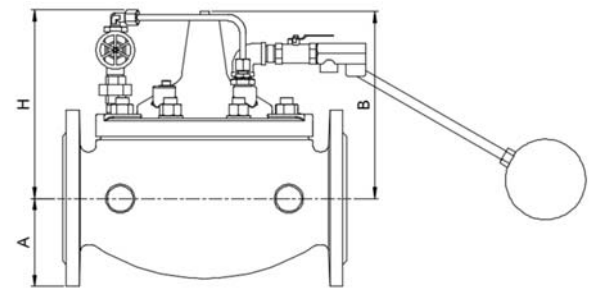
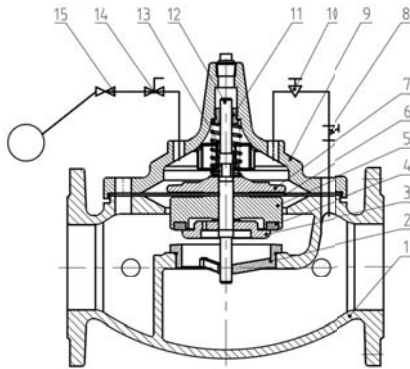
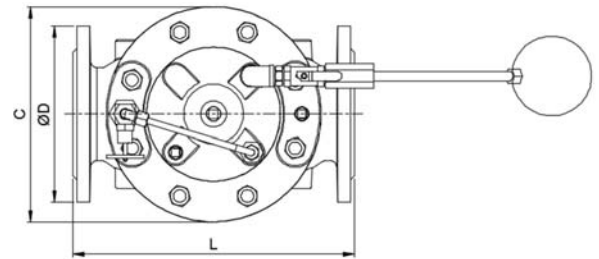
Dimensions		Pressure rating	Size (mm)						
DN	inch	PN	φD	L	H	A	B	C	E
50	2	PN10/16	165	230	294	82.5	152	155	134
65	2.5	PN10/16	185	290	298	92.5	170	190	134
80	3	PN10/16	200	310	310	100	197	233	134
100	4	PN10/16	220	350	320	110	234	270	134
150	6	PN10/16	285	480	352	158	311	378	134
200	8	PN10/16	340	600	382	190	377	496	134

Remote float control valve

Technical data >

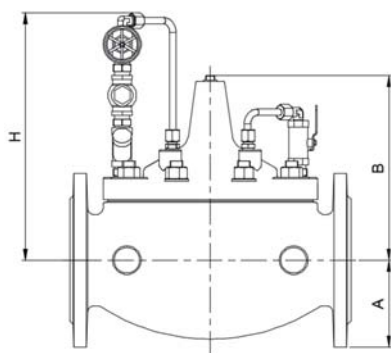
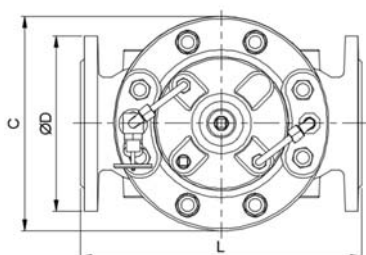
- Sizes: DN50~200
- Working pressure: PN10/16
- Flange standard: EN1092-2 and ASME-B16.1 Class125
- Temperature range: 0 ~ 80°C

No.	Name of parts	Material
1	Body	Ductile iron
2	Seat	SS304
3	Disc Guide	SS304
4	Disc Gasket	EPDM
5	Disc	Ductile iron
6	Diaphragm	EPDM+Nylon
7	Diaphragm Washer	Ductile iron
8	Strainer	SS304
9	Cover	Ductile iron
10	Needle Valve	SS304
11	Cover Bearing	SS304
12	Stem	SS304
13	Spring	SS304
14	Ball Valve	SS304
15	Floating ball pilot valve	SS304



Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	φD	L	H	A	B	C
50	2	PN10/16	165	230	210	82.5	152	155
65	2.5	PN10/16	185	290	214	92.5	170	190
80	3	PN10/16	200	310	226	100	197	233
100	4	PN10/16	220	350	236	110	234	270
150	6	PN10/16	285	480	268	158	311	378
200	8	PN10/16	340	600	298	190	377	496

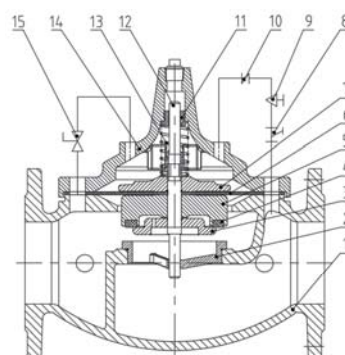
Low speed closed check valve



Technical data >

- Sizes: DN50~200
- Working pressure: PN10/16
- Flange standard: EN1092-2 and ASME-B16.1 Class125
- Temperature range: 0 ~ 80°C

No.	Name of parts	Material
1	Body	Ductile iron
2	Seat	SS304
3	Disc Guide	SS304
4	Disc Gasket	EPDM
5	Disc	Ductile iron
6	Diaphragm	EPDM+Nylon
7	Diaphragm Washer	Ductile iron
8	Strainer	SS304
9	Needle Valve	SS304
10	Check Valve	SS304
11	Cover Bearing	SS304
12	Stem	SS304
13	Spring	SS304
14	Cover	Ductile iron
15	Ball Valve	SS304

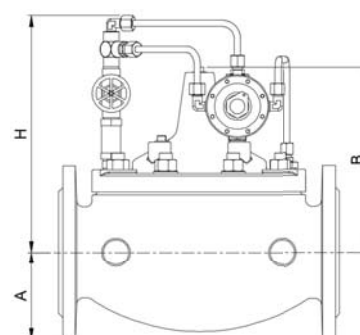
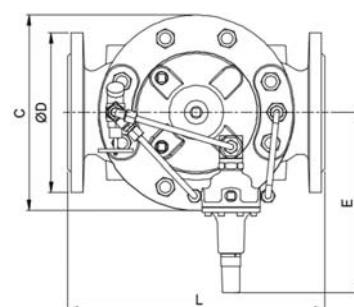
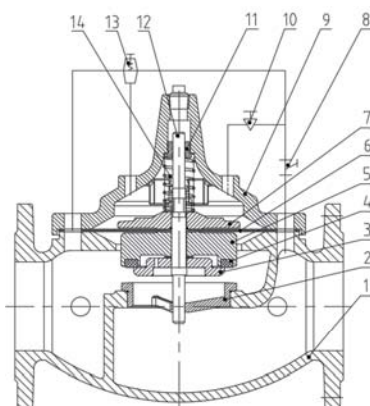


Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	φD	L	H	A	B	C
50	2	PN10/16	165	230	234	82.5	152	155
65	2.5	PN10/16	185	290	238	92.5	170	190
80	3	PN10/16	200	310	250	100	197	233
100	4	PN10/16	220	350	260	110	234	270
150	6	PN10/16	285	480	292	158	311	378
200	8	PN10/16	340	600	322	190	377	496

Technical data >

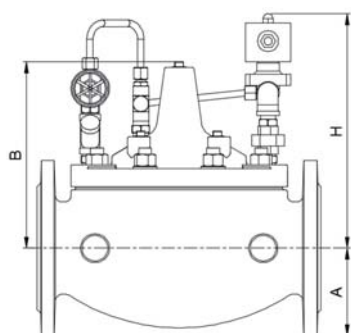
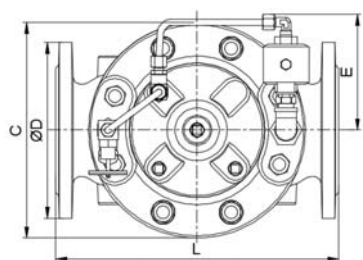
- Sizes: DN50~200
- Working pressure: PN10/16
- Flange standard: EN1092-2 and ASME-B16.1 Class125
- Temperature range: 0 ~ 80°C

No.	Name of parts	Material
1	Body	Ductile iron
2	Seat	SS304
3	Disc Guide	SS304
4	Disc Gasket	EPDM
5	Disc	Ductile iron
6	Diaphragm	EPDM+Nylon
7	Diaphragm Washer	Ductile iron
8	Strainer	SS304
9	Cover	Ductile iron
10	Needle Valve	SS304
11	Cover Bearing	SS304
12	Stem	SS304
13	Pilot Valve	SS304
14	Spring	SS304



Dimensions		Pressure rating	Size (mm)						
DN	inch	PN	φD	L	H	A	B	C	E
50	2	PN10/16	165	230	274	82.5	152	155	220
65	2.5	PN10/16	185	290	278	92.5	170	190	222
80	3	PN10/16	200	310	290	100	197	233	238
100	4	PN10/16	220	350	300	110	234	270	250
150	6	PN10/16	285	480	332	158	311	378	258
200	8	PN10/16	340	600	362	190	377	496	273

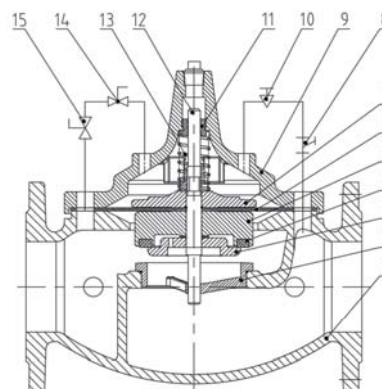
Electromagnetic shut - off valve



Technical data >

- Sizes: DN50~200
- Working pressure: PN10/16
- Flange standard: EN1092-2 and ASME-B16.1 Class125
- Temperature range: 0 ~ 80

No.	Name of parts	Material
1	Body	Ductile iron
2	Seat	SS304
3	Disc Guide	SS304
4	Disc Gasket	EPDM
5	Disc	Ductile iron
6	Diaphragm	EPDM+Nylon
7	Diaphragm Washer	Ductile iron
8	Strainer	SS304
9	Cover	Ductile iron
10	Needle Valve	SS304
11	Cover Bearing	SS304
12	Stem	SS304
13	Spring	SS304
14	Electromagnetic Valve	SS304
15	Ball Valve	SS304



Dimensions		Pressure rating	Size (mm)						
DN	inch	PN	φD	L	H	A	B	C	E
50	2	PN10/16	165	230	269	82.5	152	155	145
65	2.5	PN10/16	185	290	273	92.5	170	190	145
80	3	PN10/16	200	310	285	100	197	233	145
100	4	PN10/16	220	350	295	110	234	270	145
150	6	PN10/16	285	480	327	158	311	378	145
200	8	PN10/16	340	600	356	190	377	496	145

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