



Shandong Lede Machinery Co.Ltd
Best manufacturer of valves



Valve for Fire Protection

INTERNATIONAL APPROVAL



-MOST RELIABLE SUPPLIER-



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,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.

CONTENT



01

Model No. Z45X-01
DIN F4 Flanged Resilient
Seated NRS Gate Valve



02

Model No. Z45X-02
BS5163 Flanged Resilient
Seated NRS Gate Valve



03

Model No. Z45X-03
Flanged Resilient Seated NRS
Gate Valve



04

Model No. 1110
AWWA C515 Flanged Resilient
Seated NRS Gate Valve



05

Model No. 1112
Mechanical Joint Resilient
Seated NRS Gate Valves



06

Model No. Z45X-04
Flanged Resilient Seated NRS Gate
Valve with Indicator Post



07

Model No. 1113
Mechanical Joint Resilient Seated
NRS Gate Valve with Indicator Post



08

Model No. Z85X
Grooved Resilient Seated NRS
Gate Valve



09

Model No. 1111
Grooved Resilient Seated NRS
Gate Valve



10

Model No. Z41X-01
DIN F4 Flanged Resilient
Seated OS&Y Gate Valve



11

Model No. Z41X-02
BS5163 Flanged Resilient
Seated OS&Y Gate Valve



12

Model No. Z41X-03
Flanged Resilient Seated OS&Y
Gate Valve



13

Model No. 1210
Flanged Resilient Seated
OS&Y Gate Valve



14

Model No. 1211
Grooved Resilient Seated
OS&Y Gate Valve



15

Model No. Z81X
Grooved Resilient Seated
OS&Y Gate Valve



16

Model No. 1212
Mechanical Joint Resilient
Seated OS&Y Gate Valve



17

Model No. XD371X
Wafer Butterfly Valve with
Tamper Switch



18

Model No. D71X
Wafer Butterfly Valve with
Lever Handle



19

Model No. XD381X
Grooved Butterfly Valve with
Tamper Switch



20

Model No. D81X
Grooved Butterfly Valve with
Lever Handle



21 Model No. H44X
Flanged Swing Check Valve



22 Model No. H44X-1.6
Flanged Swing Check Valve



23 Model No. H84X
Grooved Swing Check Valve



24 Silent check valve



25 Silent check valve



26 Foot valve



27 Model No. 6101
Flanged Y Strainer



28 Model No. 6103
Flanged Y Strainer



29 Model No. 6102
Grooved Y Strainer



30 Model No. YL4X
Deluge Valve



31 Model No. 9101
Wall Indicator Post



32 Model No. 9102
Vertical Indicator Post



33 Dry Barrel Hydrant



34 Alarm Check Valve



35 Pressure Reducing Valve



36 Pressure Relief Valve



DIN F4 Flanged Resilient Seated NRS Gate Valve

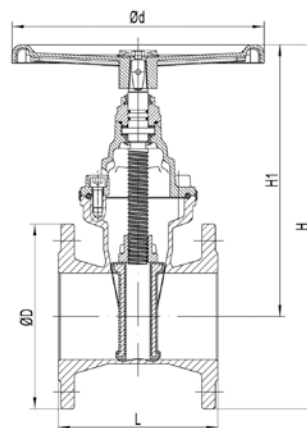
Model No.Z45X-01



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	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

Technical data >

- Size: DN50 ~ DN300
- Working pressure:PN16/PN25
- Valve standard:EN1171
- Flange standard:EN1092-2
- Temperature range:0 ~ 80℃



Dimensions		Pressure rating	Size(mm)				
DN	inch	PN	Φ D	L	H1	H	Φ d
50	2	16	165	150	256	348.5	203
		25					
65	2.5	18	185	170	256	348.5	203
		25					
80	3	16	200	180	273.5	373.5	203
		25					
100	4	16	220	190	323.5	433.5	300
		25	235			441	
125	5	16	250	200	376	501	300
		25	270			511	
150	6	16	285	210	423.5	566	300
		25	300			573.5	
200	8	16	340	230	530.5	700.5	406
		25	360			710.5	
250	10	16	400	250	645	845	406
		25	425			857.5	
300	12	18	455	270	725.5	953	406
		25	485			953	

※DN600 available upon request

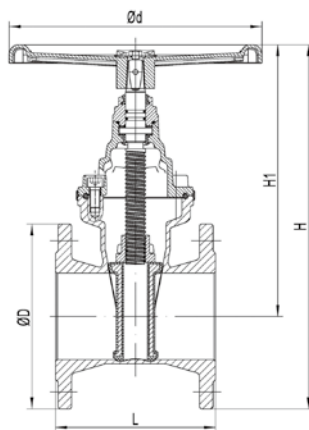
BS5163 Flanged Resilient Seated NRS Gate Valve

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	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

Model No.Z45X-02

**Technical data** >

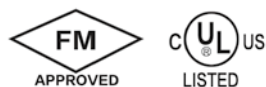
- Size: DN50 ~ DN300
- Working pressure:PN16/PN25
- Valve standard:BS5163
- Flange standard:EN1092-2
- Temperature range:0 ~ 80℃



Dimensions		Pressure rating	Size(mm)				
DN	inch	PN	ΦD	L	H1	H	Φd
50	2	16	165	178	256	338.5	203
		25		218			
65	2.5	16	185	190	256	348.5	203
		25		241			
80	3	16	200	203	273.5	373.5	203
		25		283			
100	4	16	220	229	323.5	433.5	300
		25	235	305		441	
125	5	16	250	254	376	501	300
		25	270	381		511	
150	6	16	285	267	423.5	566	300
		25	300	403		573.5	
200	8	16	340	292	530.5	700.5	406
		25	360	419		710.5	
250	10	16	400	330	645	845	406
		25	425	457		857.5	
300	12	16	455	356	725.5	953	406
		25	485	502		953	

Flanged Resilient Seated NRS Gate Valve

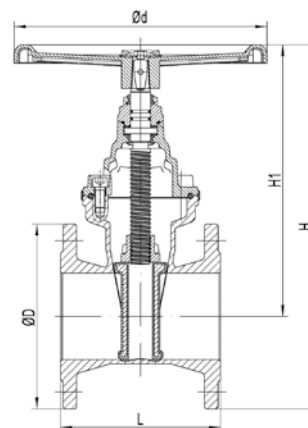
Model No.Z45X-03



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	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

Technical data >

- Size: 2" ~ 12"
- Working pressure:175psi,300psi
- Flange standard:ASME-B16.1 Class125
- Temperature range:0 ~ 80℃

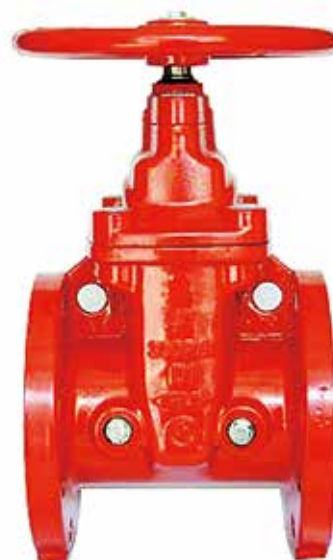
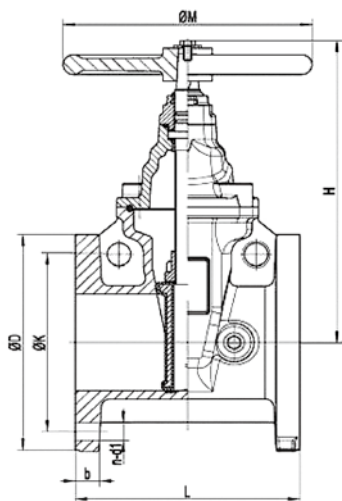


Dimensions		Pressure rating	Size(mm)				
DN	inch	psi	ΦD	L	H1	H	Φd
50	2	175	152	178	256	332	203
		300					
65	2.5	175	178	190	256	345	203
		300					
80	3	175	191	203	273.5	369	203
		300					
100	4	175	229	229	323.5	438	300
		300					
125	5	175	254	254	376	503	300
		300					
150	6	175	279	267	423.5	563	300
		300					
200	8	175	343	292	530.5	702	406
		300					
250	10	175	406	330	645	848	406
		300					
300	12	175	483	356	725.5	967	406
		300					

AWWA C515 Flanged Resilient Seated NRS Gate Valve

Model No. 1110
Technical data >

- Size: 2" ~ 12"
- Working pressure: 300Psi
- Design standard: AWWA C515
- Face to face: ASME B16.10
- Flange standard: ASME-B16.1 Class125
- Tests: AWWA C515
- Temperature range: 0 ~ 80°C



SIZE Inch	OUTLINE(Inch)			END FLANGE CLASS125 (Inch)			
	L	H	M	D	K	n-d1	b
2	7	10.08	7	6.00	4.75	4-0.75	0.62
2 1/2	7.5	10.08	7	7.00	5.50	4-0.75	0.69
3	8	10.77	7	7.50	6.00	4-0.75	0.75
4	9	12.74	10	9.00	7.50	8-0.75	0.94
5	10	14.80	10	10.00	8.50	8-0.88	0.94
6	10.5	16.67	12	11.00	9.50	8-0.88	1.00
8	11.5	20.89	14	13.50	11.75	8-0.88	1.12
10	13	25.39	16	16.00	14.25	12-1.00	1.19
12	14	28.56	16	19.00	17.00	12-1.00	1.25

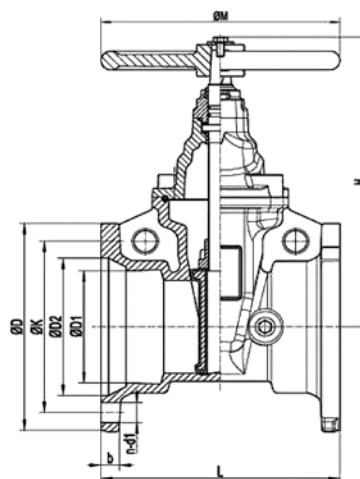
Mechanical Joint Resilient Seated NRS Gate Valves

Model No. 1112



Technical data >

- Size: 3" ~ 12"
- Working pressure: 3" ~ 12" 362psi
- Design standard: AWWA C515
- Mechanical Joint End standard: AWWA C153/A21.53
- Tests: AWWA C515
- Temperature range: 0~80 °C



SIZE Inch	OUTLINE(Inch)			END MECHANICAL JOINT (Inch)					
	L	H	M	D	K	D2	D1	n-d1	b
3	9.5	10.77	7	7.62	6.19	4.94	4.06	4-0.75	0.58
4	10	12.74	10	9.06	7.50	6.02	4.90	4-0.88	0.60
6	10.5	16.67	12	11.06	9.50	8.12	7.00	6-0.88	0.63
8	11.5	20.89	14	13.31	11.75	10.27	9.15	6-0.88	0.66
10	13	25.39	16	15.62	14.00	12.34	11.20	8-0.88	0.70
12	14	28.56	16	17.88	16.25	14.44	13.30	8-0.88	0.73

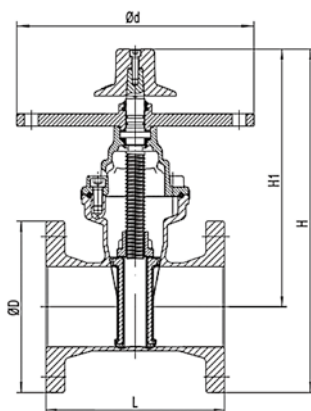
Flanged Resilient Seated NRS Gate Valve with Indicator Post

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
Indicator Post Flange	Ductile iron
Sliding disc	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Wrench Nut	Ductile iron

Model No. Z45X-04


Technical data >

- Size: 2" ~ 12"
- Working pressure:175psi,300psi
- Flange standard:ASME-B16.1 Class125
- Temperature range:0 ~ 80℃



Dimensions		Pressure rating	Size(mm)				
DN	inch	psi	ΦD	L	H1	H	Φd
100	4	175	229	229	332.5	449	305
		300					
125	5	175	254	254	385	512	305
		300					
150	6	175	279	267	432.5	572	305
		300					
200	8	175	343	292	527	698.5	305
		300					
250	10	175	406	330	645	848	305
		300					
300	12	175	483	356	722	963.5	305
		300					

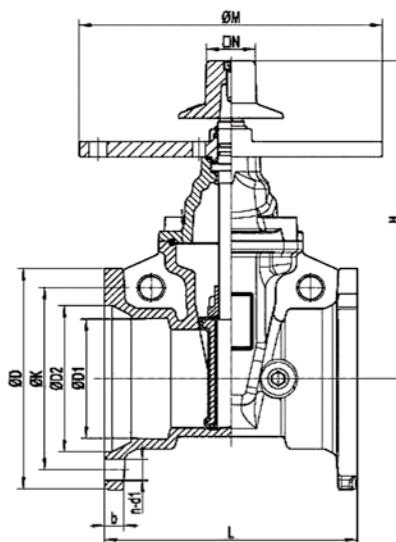
Mechanical Joint Resilient Seated NRS Gate Valve with Indicator Post

Model No. 1113



Technical data >

- Size: 3" ~ 12"
- Working pressure: 3" ~ 12" 362psi
- Design standard: AWWA C515
- Mechanical Joint End standard: AWWA C153/A21.53
- Tests: AWWA C515
- Temperature range: 0~80 °C



SIZE Inch	OUTLINE(Inch)				END MECHANICAL JOINT (Inch)					
	L	H	M	N	D	K	D2	D1	n-d1	b
3	9.5	11.30	12	1.93	7.62	6.19	4.94	4.06	4-0.75	0.58
4	10	13.15	12	1.93	9.06	7.50	6.02	4.90	4-0.88	0.60
6	10.5	17.13	12	1.93	11.06	9.50	8.12	7.00	6-0.88	0.63
8	11.5	20.75	12	1.93	13.31	11.75	10.27	9.15	6-0.88	0.66
10	13	25.20	12	1.93	15.62	14.00	12.34	11.20	8-0.88	0.70
12	14	28.43	12	1.93	17.88	16.25	14.44	13.30	8-0.88	0.73

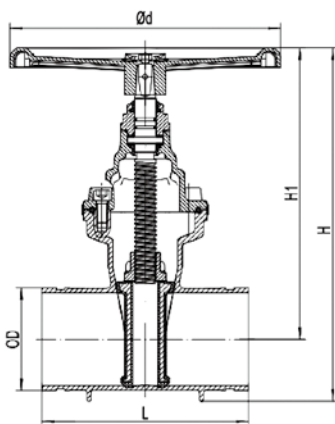
Grooved Resilient Seated NRS Gate Valve

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	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

Model No. Z85X

**Technical data** >

- Size: DN50-DN200
- Working pressure:PN25,362psi
- Grooved standard:AWWA C606
- Temperature range:0 ~ 80℃



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	300
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

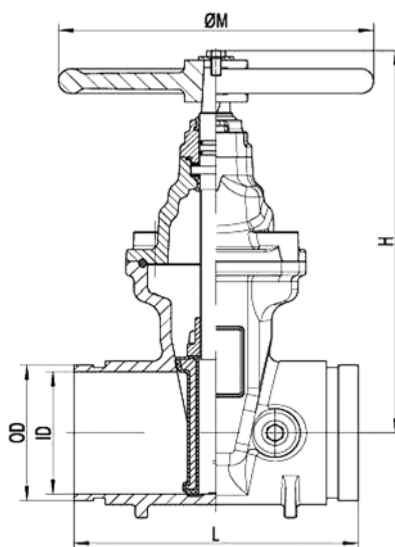
Grooved Resilient Seated NRS Gate Valve

Model No. 1111



Technical data >

- Size: 2" ~ 12"
- Working pressure: 362psi
- Design standard: AWWA C515
- Grooved standard: AWWA C606
- Tests: AWWA C515
- Temperature range: 0~80 C



SIZE Inch	OUTLINE(Inch)			END GROOVED(Inch)	
	L	H	M	OD	ID
2	7	10.08	7	2.37	2.09
2.5	7.5	10.08	7	2.87	2.48
3	8	10.77	7	3.50	3.07
4	9	12.74	10	4.50	4.06
5	10	14.80	10	5.56	5.04
6	10.5	16.67	12	6.63	6.10
8	11.5	20.89	14	8.63	8.03
10	13	25.39	16	10.75	10.04
12	14	28.56	16	12.75	11.97

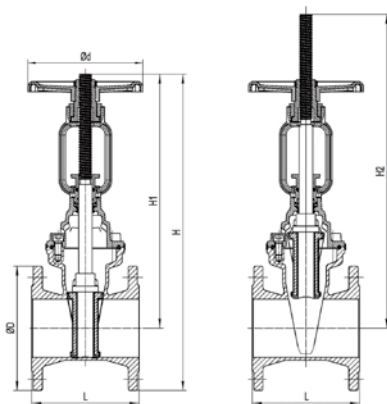
DIN F4 Flanged Resilient Seated OS&Y Gate Valve

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	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

Model No. Z41X-01

**Technical data** >

- Size: DN50-DN300
- Working pressure:PN16/PN25
- Valve standard:EN1171
- Flange standard:EN1092-2
- Temperature range:0 ~ 80℃



Dimensions		Pressure rating	Size(mm)					
DN	inch	PN	Φ D	L	H1	H2	H	Φ d
50	2	16	165	150	358.5	420.5	441	203
		25						
65	2.5	16	185	170	359.5	429.5	452	203
		25						
80	3	16	200	180	378	462	478	203
		25						
100	4	16	220	190	449.5	553	559.5	203
		25	235				567	
125	5	16	250	200	549.5	677	674.5	300
		25	270				684.5	
150	6	16	285	210	591.5	747	734	300
		25	300				741.5	
200	8	16	340	230	735.5	938	905.5	330
		25	360				915.5	
250	10	16	400	250	900.5	1161	1100.5	406
		25	425				1113	
300	12	16	455	270	1045.5	1353	1273	406
		25	485				1288	

BS5163 Flanged Resilient Seated OS&Y Gate Valve

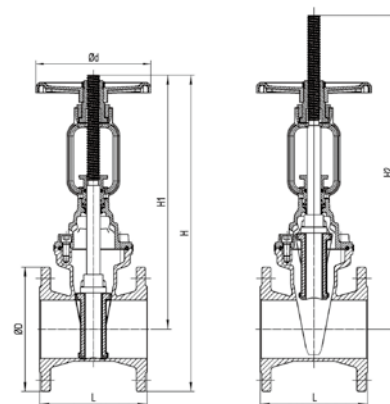
Model No. Z41X-02



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
Yoke	Ductile iron
Sliding disc	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

Technical data >

- Size: DN50 ~ DN300
- Working pressure:PN16/PN25
- 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	16	165	178	358.5	420.5	441	203
		25		216				
65	2.5	16	185	190	359.5	429.5	452	203
		25		241				
80	3	16	200	203	378	462	478	203
		25		283				
100	4	16	220	229	449.5	553	559.5	203
		25	235	305			567	
125	5	16	250	254	549.5	677	674.5	300
		25	270	381			684.5	
150	6	16	285	267	591.5	747	734	300
		25	300	403			741.5	
200	8	16	340	292	735.5	938	905.5	330
		25	360	419			915.5	
250	10	16	400	330	900.5	1161	1100.5	406
		25	425	457			1113	
300	12	16	455	356	1045.5	1353	1273	406
		25	485	502			1288	

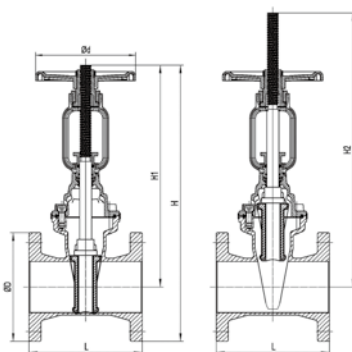
Flanged Resilient Seated OS&Y Gate Valve

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	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

Model No. Z41X-03


Technical data >

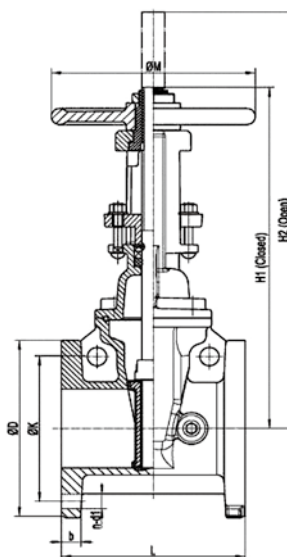
- Size: 2"-12"
- Working pressure:175psi,300psi
- Flange standard:ASME-B16.1 Class125
- Temperature range:0 ~ 80℃



Dimensions		Pressure rating	Size(mm)					
DN	inch		ΦD	L	H1	H2	H	Φd
50	2	175	152	178	358.5	420.5	434.5	203
		300						
65	2.5	175	178	190	359.5	429.5	448.5	203
		300						
80	3	175	191	203	378	462	473.5	203
		300						
100	4	175	229	229	449.5	553	564	203
		300						
125	5	175	254	254	549.5	677	676.5	300
		300						
150	6	175	279	267	591.5	747	731	300
		300						
200	8	175	343	292	735.5	938	907	330
		300						
250	10	175	406	330	900.5	1161	1103.5	406
		300						
300	12	175	483	356	1045.5	1353	1287	406
		300						

Flanged Resilient Seated OS&Y Gate Valve

Model No. 1210



Technical data >

- Size: 2"~12"
- Working pressure: 300psi
- Design standard: AWWA C515
- Face to face: ASME B16.10
- Flange standard: ASME-B16.1 CIASS125
- Tests: AWWA C515
- Temperature range: 0~80°C

SIZE Inch	OUTLINE (Inch)				END FLANGE CIASS125 (Inch)			
	L	H 1	H2	M	D	K	n-d1	b
2	7	13.46	15.67	7	6.00	4.75	4-0.75	0.62
2 1/2	7.5	13.11	15.79	7	7.00	5.50	4-0.75	0.69
3	8	14.89	18.23	7	7.50	6.00	4-0.75	0.75
4	9	17.46	21.63	10	9.00	7.50	8-0.75	0.94
5	10	20.39	25.63	10	10.00	8.50	8-0.88	0.94
6	10.5	23.29	29.59	12	11.00	9.50	8-0.88	1.00
8	11.5	28.78	37.01	14	13.50	11.75	8-0.88	1.12
10	13	35.04	45.28	16	16.00	14.25	12-1.00	1.19
12	14	40.61	52.78	16	19.00	17.00	12-1.00	1.25

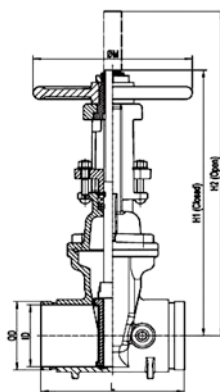
Grooved Resilient Seated OS&Y Gate Valve

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	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

Model No. 1211

**Technical data** >

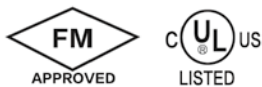
- Size: 2"~12"
- Working pressure: 362psi
- Valve standard: AWWA C515
- Grooved standard: AWWA C606
- Temperature range: 0~80℃



SIZE Inch	OUTLINE (Inch)				END GROOVED (Inch)	
	L	H 1	H2	M	OD	ID
2	7	13.46	15.67	7	2.37	2.09
2.5	7.5	13.11	15.79	7	2.87	2.48
3	8	14.89	18.23	7	3.50	3.07
4	9	17.46	21.63	10	4.50	4.06
5	10	20.39	25.63	10	5.56	5.04
6	10.5	23.29	29.59	12	6.63	6.10
8	11.5	28.78	37.01	14	8.63	8.03
10	13	35.04	45.28	16	10.75	10.04
12	14	40.61	52.78	16	12.75	11.97

Grooved Resilient Seated OS&Y Gate Valve

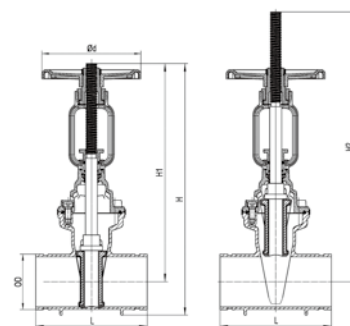
Model No. Z81X



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	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

Technical data >

- Size: DN50~DN200
- Working pressure: Up to PN25, 362psi
- Grooved standard: AWWA C606
- Temperature range: 0~80℃

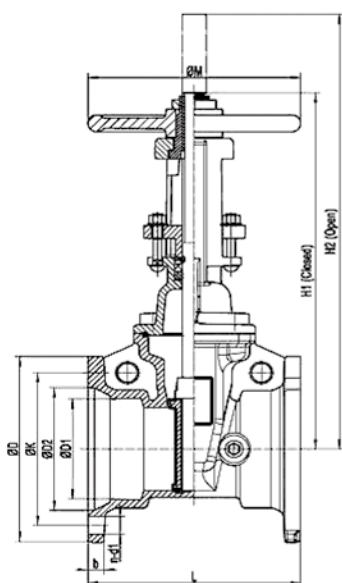


Dimensions		Pressure rating	Size(mm)					
DN	inch	psi	OD	L	H1	H2	H	Φd
50	2	362	60.3	178	358.5	420.5	403.5	203
65	2.5	362	73	190	359.5	429.5	411	203
			76.1					
80	3	362	88.9	203	378	462	437.5	203
100	4	362	114.3	229	449.5	553	518.5	203
125	5	362	139.7	254	549.5	677	631	300
			141.3					
150	6	362	165.1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

Mechanical Joint Resilient Seated OS&Y Gate Valve

Technical data >

- Size: 3"~12"
- Working pressure: 3"~12" 362psi
- Design standard: AWWA C515
- Mechanical Joint End standard: AWWA C153/A21.53
- Tests: AWWA C515
- Temperature range: 0~80 °C

Model No. 1212


SIZE Inch	OUTLINE (Inch)				END GROOVED (Inch)					
	L	H 1	H2	M	D	K	D2	D1	n-d1	b
3	9.5	14.89	18.23	7	7.62	6.19	4.94	4.06	4-0.75	0.58
4	10	17.46	21.63	10	9.06	7.50	6.02	4.90	4-0.88	0.60
6	10.5	23.29	29.59	12	11.06	9.50	8.12	7.00	6-0.88	0.63
8	11.5	28.78	37.01	14	13.31	11.75	10.27	9.15	6-0.88	0.66
10	13	35.04	45.28	16	15.62	14.00	12.34	11.20	8-0.88	0.70
12	14	40.61	52.78	16	17.88	16.25	14.44	13.30	8-0.88	0.73

Wafer Butterfly Valve with Tamper Switch

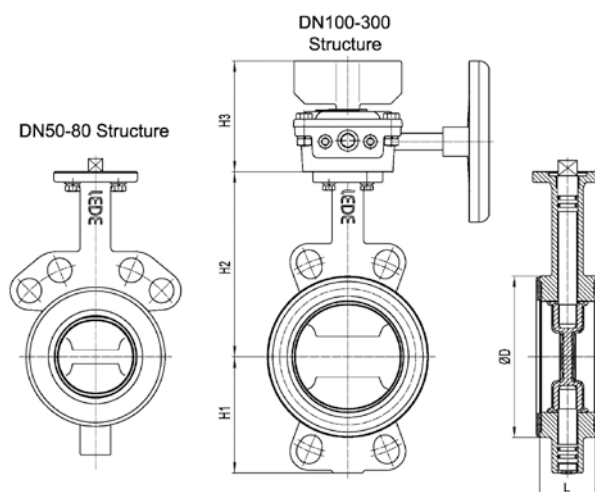
Model No. XD371X



Technical data >

- Size: DN50~DN300
- Working pressure: PN16/PN25
- Valve standard: EN593
- Flange standard: ASME-B16.1 Class 125 and EN1092-2
- Top Flange standard: EN ISO 5211
- Temperature range: 0~80℃
- Suitable for indoor and outdoor use

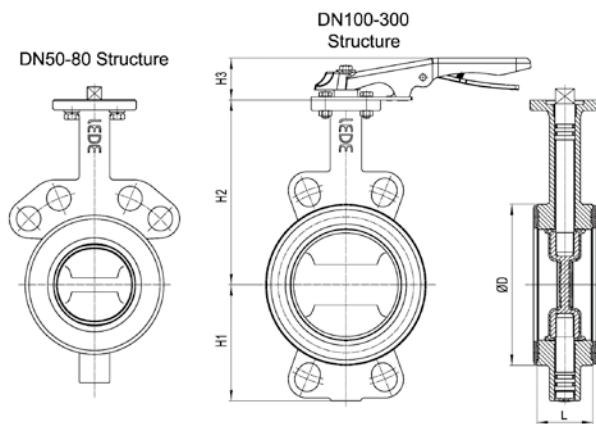
Name of parts	Material
Body	Ductile iron
Plug	EPDM
Driven shaft	1Cr17Ni2
Disc	Ductile iron and EPDM
Actuating shaft	1Cr17Ni2
Bearing bush	Bronze
O-rings	EPDM
Gear operator	Ductile iron and steel



Dimensions		Pressure rating	Size(mm)					
DN	inch	psi	Φ D	L	H1	H2	H3	Top Flange
50	2	362	91	43	70	125	103	F05
65	2.5	362	108	46	76	143.5	103	F05
80	3	362	124	46	94	151	103	F05
100	4	362	150	52	108	172	103	F07
125	5	362	178	56	127	190	103	F07
150	6	362	205	56	139	202	103	F07
200	8	232	260	60	175	235	103	F07
250	10	232	313	68	210	265	109	F10
300	12	232	364	78	238	285	109	F10

Wafer Butterfly Valve with Lever Handle

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

Model No. D71


Technical data >

- Size: DN50~DN300
- Working pressure: PN16/PN25
- Valve standard: EN593
- Flange standard: ASME-B16.1 Class 125 and EN1092-2
- 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	39	F05
65	2.5	10/16/25	108	46	76	143.5	39	F05
80	3	10/16/25	124	46	94	151	39	F05
100	4	10/16/25	150	52	108	172	39	F07
125	5	10/16/25	178	56	127	190	39	F07
150	6	10/16/25	205	56	139	202	39	F07
200	8	10/16/25	260	60	175	235	39	F07

Grooved Butterfly Valve with Tamper Switch

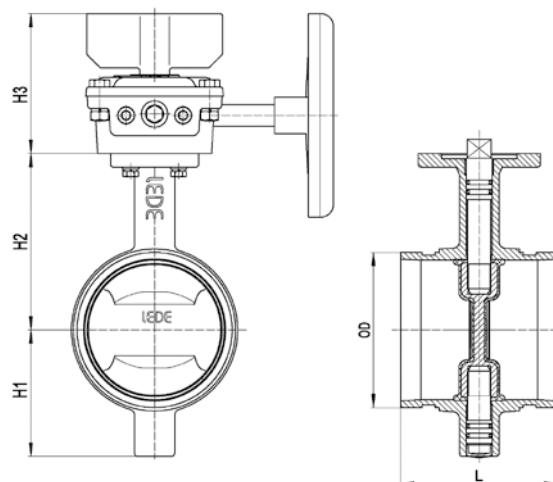
Model No. XD381X



Technical data >

- Size: DN50~DN200
- Working pressure: DN50~DN150 362psi, DN200 232psi
- Valve standard: MSS SP-67
- Grooved standard: AWWA C606
- Top Flange standard: EN ISO 5211
- Temperature range: 0~80 C
- Suitable for indoor and outdoor use

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

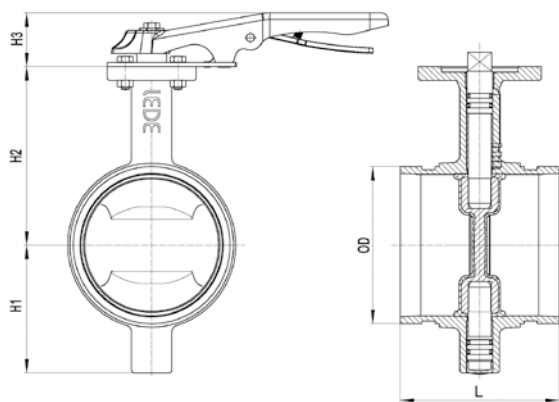


Dimensions		Pressure rating	Size(mm)					
DN	inch	psi	OD	L	H1	H2	H3	Top Flange
50	2	362	60.3	81	56	91	103	F05
65	2.5	362	73	96.8	68	104	103	F05
			76.1					
80	3	362	88.9	96.8	75	111	103	F07
100	4	362	114.3	115.8	93	130	103	F07
125	5	362	139.7	147.6	111	153	103	F07
			141.3		111	153		
150	6	362	165.1	147.6	123	165	103	F07
			168.3		123	165		
200	8	232	219.1	133.4	160	194	109	F07

Grooved Butterfly Valve with Lever Handle

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

Model No. D81X

**Technical data** >

- Size: DN50~DN200
- Working pressurer: DN50~DN150 362psi, DN200 232psi
- 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	OD	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

Flanged Swing Check Valve

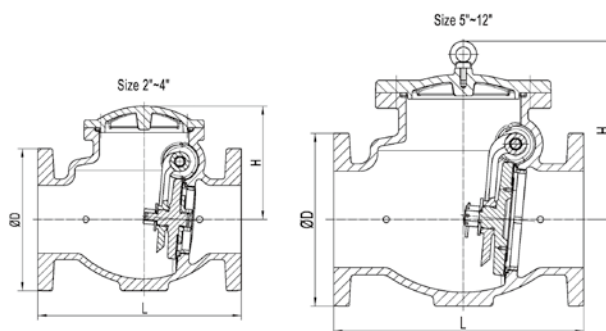
Model No. H44X



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 >

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

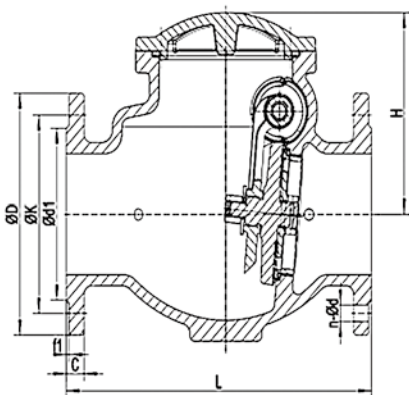


Dimensions		Pressure rating	Size (mm)		
DN	inch	psi	ΦD	L	H
50	2	300	152	203	125
65	2.5	300	178	254	139
80	3	300	191	279	153
100	4	300	229	330	184
125	5	300	254	356	275
150	6	300	279	406	289
200	8	300	343	496	352
250	10	300	406	559	411
300	12	300	483	660	480

Flanged Swing Check Valve

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

Model No. H44X-1.6



Technical data >

- Size: 2" ~ 12"
- Working pressure: 232psi
- Flange standard: PN16
- Temperature range: 0~80 °C

Dimensions		Pressure rating	Size (mm)							
DN	inch	PN	D	K	d1	C	f1	n-d	H	L
50	2	16	165	125	99	19	3	4-19	125	203
65	2.5	16	185	145	118	19	3	4-19	139	254
80	3	16	200	160	132	19	3	8-19	153	279
100	4	16	220	180	156	19	3	8-19	184	330
125	5	16	250	210	184	19	3	8-19	275	356
150	6	16	285	240	211	19	3	8-23	289	406
200	8	16	340	295	266	20	3	12-23	352	495
250	10	16	400	355	319	22	3	12-28	411	559
300	12	16	455	410	370	24.5	4	12-28	480	660

Grooved Swing Check Valve

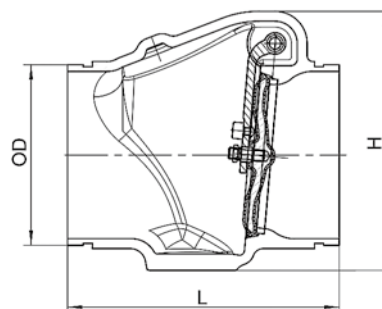
Model No. H84X



Technical data >

- Size: 2" ~ 12"
- Working pressure: 365psi
- Grooved standard: AWWA C606
- Temperature range: 0~80 °C

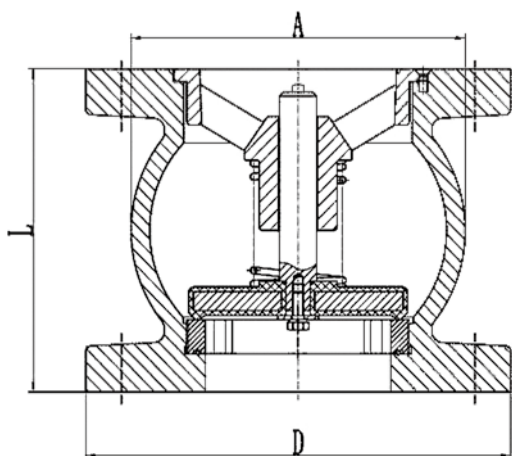
Name of parts	Material
Body	Ductile iron
Seat Ring	SS304
Disc Sealing Ring	EPDM
Disc plate	SS304
Disc	Ductile iron
Clapper Arm	Ductile iron
Bonnet Gasket	EPDM
Bonnet	Ductile iron
Hinge Pin	SS304
Hinge Bushing	Bronze
Hinge Plug	SS304



Dimensions		Pressure rating	Size(mm)		
DN	inch	psi	OD	L	H
50	2	365	60.3	167	122.5
65	2.5	365	73	180	136.5
			76.1		
80	3	365	88.9	198	165.5
100	4	365	114.3	229	193.5
125	5	365	139.7	254	235.5
			141.3		
150	6	365	165.1	272	252
			168.3		
200	8	365	219.1	330	314.5
250	10	362	273.1	435	395
300	12	362	323.9	510	460

Silent check valve

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



Technical data >

- Size: 2" ~ 8"
- Working pressure: 300psi
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0~80 C

Dimensions		Pressure rating	Size(mm)		
DN	inch	psi	D	L	A
50	2	300	152	100	98
65	2.5	300	178	120	124
80	3	300	191	140	146
100	4	300	229	170	180
125	5	300	254	200	220
150	6	300	279	230	256
200	8	300	343	288	330

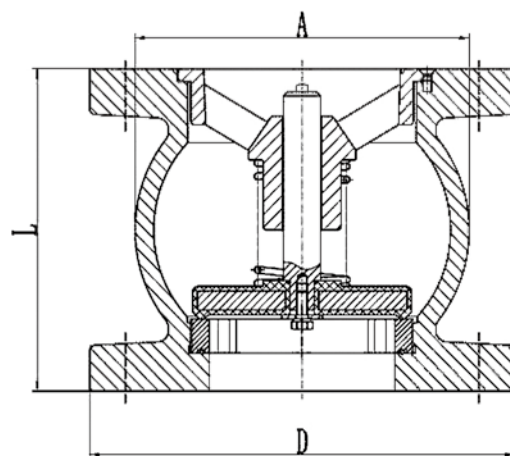
Silent check valve



Technical data >

- Size: DN50~200
- Working pressure: PN10/16/20
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80 °C

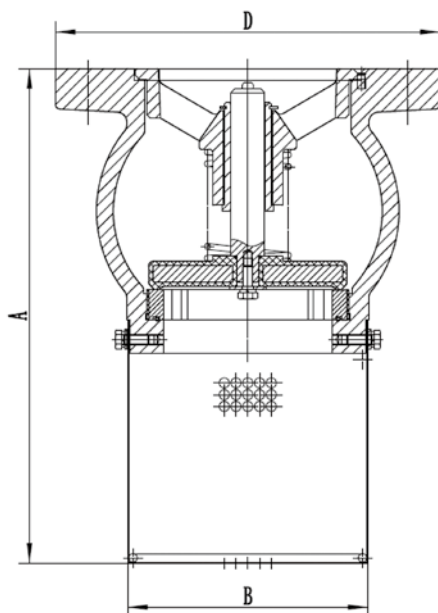
Name of parts	Material
Body	Ductile iron
Bonnet	Ductile iron
Disc	Ductile iron+EPDM
Support	Bronze
Shaft	Stainless Stell
Spring	Stainless Stell



Dimensions		Pressure rating	Size(mm)		
DN	inch	PN	D	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		

Foot valve

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

**Technical data** >

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

Dimensions		Pressure rating	Size(mm)		
DN	inch	psi	D	A	B
50	2	300	152	153	83
65	2.5	300	178	195	103
80	3	300	191	237	120
100	4	300	229	295	143
150	6	300	279	431	196
200	8	300	343	574	248

Flanged Y Strainer

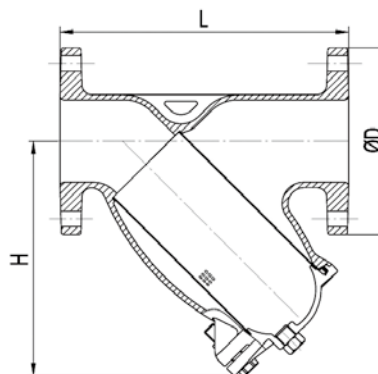
Model No. 6101



Technical data >

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

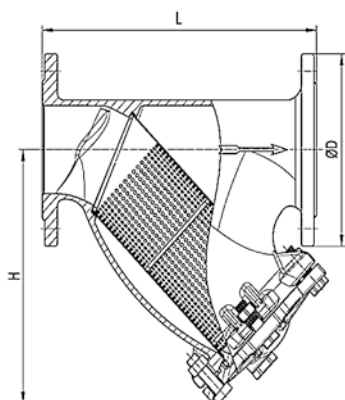
Name of parts	Material
Body	Ductile iron
Cover	Ductile iron
Gasket	EPDM
Screen	SS304
Plug	Bronze



Dimensions		Pressure rating	Size(mm)		
DN	inch	psi	φ D	L	H
50	2	300	152	230	154
65	2.5	300	178	290	201
80	3	300	191	310	210
100	4	300	229	350	269
125	5	300	254	400	320
150	6	300	279	480	357
200	8	300	343	550	442
250	10	300	406	650	525
300	12	300	483	750	620

Flanged Y Strainer

Model No. 6103

**Technical data** >

- Size: 2"~12"
- Working pressure: 232psi
- Flange standard: PN10/16
- Temperature range: 0 ~ 80 °C

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

Grooved Y Strainer

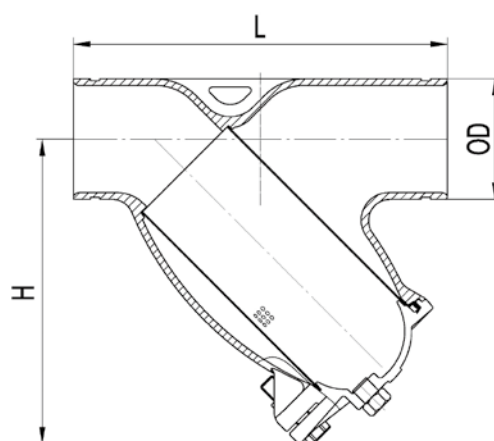
Model No. 6102



Technical data >

- Size: 2"~8"
- Working pressure: 362psi
- Grooved standard: AWWA C606
- Temperature range: 0~80 °C

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



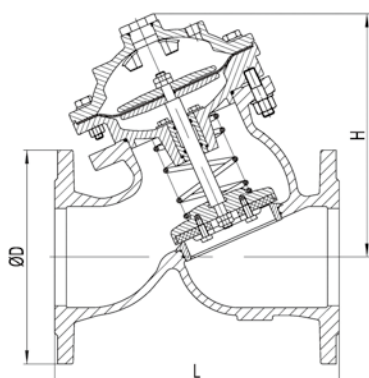
Dimensions		Pressure rating	Size(mm)		
DN	inch	psi	OD	L	H
50	2	362	60.3	230	154
65	2.5	362	73	290	201
			76.1		
80	3	362	88.9	310	210
100	4	362	114.3	350	269
125	5	362	139.7	400	320
			141.3		
150	6	362	165.1	480	357
			168.3		
200	8	362	219.1	550	442

Deluge Valve

Model No. YL4X

**Technical data** >

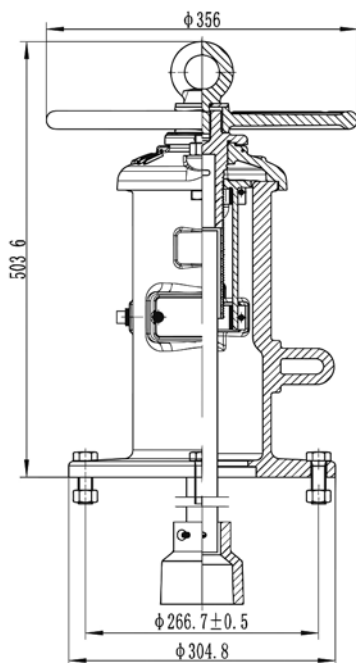
- Size: 2"~12"
- Working pressure: 300psi
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0 ~ 80 °C



Dimensions		Pressure rating	Size(mm)		
DN	inch	psi	φ D	L	H
50	2	300	152	203	170
65	2.5	300	178	216	195
80	3	300	191	241	210
100	4	300	229	292	250
125	5	300	254	330	290
150	6	300	279	356	350
200	8	300	343	495	420
250	10	300	406	622	550
300	12	300	483	698	645

Wall Indicator Post

Model No. 9101



Specification >

- Indicates if the valve is in the open or shut position.
- Used to operate a valve installed behind a wall.
- With a 12" O.D. post flange to mount on a wall.
- Operated by handwheel.
- Can be supplied to open left or right.

Name of parts	Material
Body	Cast iron/Ductile iron
Cover	Cast iron/Ductile iron
Operating Nut	Bronze C83600
Target Carrier Nut	Bronze C83600
OPEN Sign	Cast Aluminium
SHUT Sign	Cast Aluminium
Window Class	Plexiglas
Gasket	EPDM
Plug	Carbon Steel ASTM A105/A105M
Snap Ring	Carbon Steel AISI1066
Eye Bolt	Carbon Steel ASTM A105/A105M
Handwheel OD356	Ductile iron
Extension Rod	Carbon Steel ASTM A1045
Coupling	Ductile iron
Bolt	Carbon Steel ASTM A105/A105M
Nut	Carbon Steel ASTM A105/A105M
Plain	Carbon Steel ASTM A105/A105M
Lead Ring	
Pin	SS304

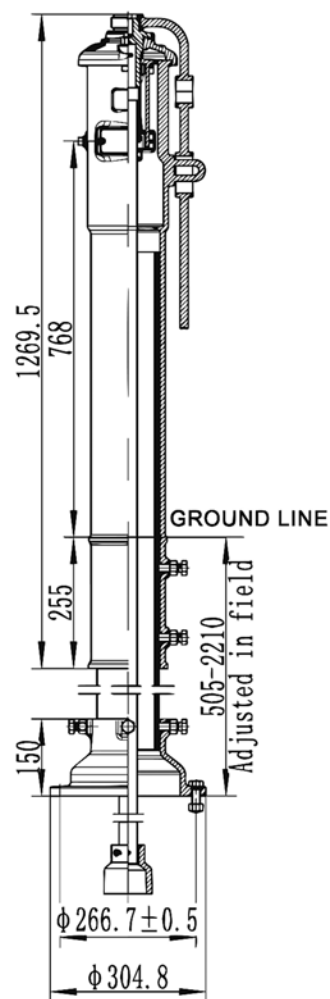
Vertical Indicator Post

Model No. 9102

**Specification >**

- Indicates if the valve is in the open or shut position.
- The indicator post provides a means to operate a buried or other wise inaccessible valve.
- The wrench fits over a "U" bracket on the barrel, and may be fixed with a padlock to secure the operating wrench to the barrel.
- Can be supplied to open left or right.

Name of parts	Material
Body	Cast iron/Ductile iron
Cover	Cast iron/Ductile iron
Operating Nut	Bronze C83600
Target Carrier Nut	Bronze C83600
OPEN Sign	Cast Aluminium
SHUT Sign	Cast Aluminium
Window Class	Plexiglas
Gasket	EPDM
Plug	Carbon Steel ASTM A105/A105M
Snap Ring	Carbon Steel AISI1066
Eye Bolt	Carbon Steel ASTM A105/A105M
Wrench	Ductile iron
Extension Rod	Carbon Steel ASTM A1045
Coupling	Ductile iron
Base Flange	Ductile iron
Telescoping Barrel	Carbon Steel ASTM A53
Bolt	Carbon Steel ASTM A105/A105M
Nut	Carbon Steel ASTM A105/A105M
Plain	Carbon Steel ASTM A105/A105M
Lead Ring	
Pin	SS304

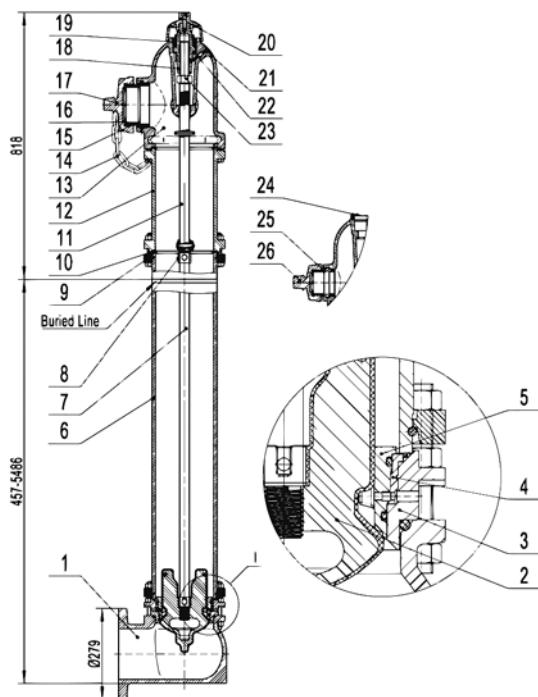


Dry Barrel Hydrant



Technical data >

- Sizes: 5-1/4"
- Working pressure: 300psi
- Valve standard: AWWA C502
- Flange standard: ASME-B16.1 Class125



No.	Name of parts	Material
1	Base	Ductile Iron ASTM A536
2	Base Valve Disc	EPDM, Encapsulated Ductile Iron
3	Base Valve Flange	Ductile Iron ASTM A536
4	Drain Ring	Bronze ASTM B62 C83600
5	Valve Seat Ring	Bronze ASTM B62 C83600
6	Lower Barrel	Ductile Iron ASTM A536
7	Lower Stem Rod	Carbon Steel AISI 1045
8	Breakable Stem Rod Coupling	304 Stainless Steel
9	Breakable Flange	Ductile Iron ASTM A536
10	Barrel Gasket	EPDM
11	Upper Stem Rod	Carbon Steel AISI 1045
12	Upper Barrel	Ductile Iron ASTM A536
13	Bonnet	Ductile Iron ASTM A536
14	Chain Set	Electro Zinc Plated Steel
15	4/4.5 Pumper Nozzle	Bronze ASTM B62 C83600
16	4/4.5 Pumper Nozzle Gasket	EPDM
17	4/4.5 Pumper Nozzle Cap	Ductile Iron ASTM A536
18	Operating Nut	Bronze ASTM B62 C83600
19	Thrust Nut	Bronze ASTM B62 C83600
20	Weathershield	Ductile Iron ASTM A536
21	Plug Screw NPT1/8	304 Stainless Steel
22	Anti-Friction Washer	POM
23	Nut	304 Stainless Steel
24	Lock Plate	304 Stainless Steel
25	2.5 Pumper Nozzle	Bronze ASTM B62 C83600
26	2.5 Pumper Nozzle Cap	Ductile Iron ASTM A536

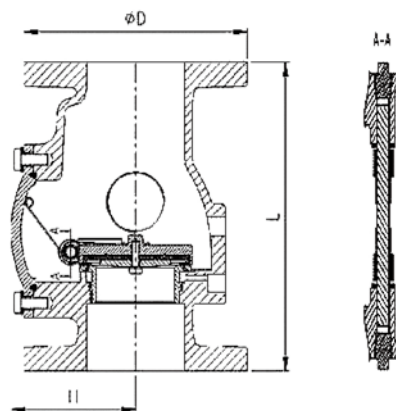
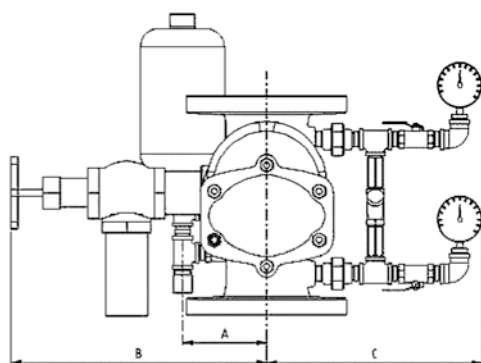
Alarm Check Valve

Technical data >

- Nominal diameter: 3"~8"
- Nominal pressure: 300psi
- Valve standard: UL193
- Face to face length: EN558-1 12 Series
- Flange type: ASME B16.1



Name of parts	Material
Body	EN-GJS-500-7
Cover	EN-GJS-500-7
Disc	Bronze
Seat ring on body	Stainless Steel 304
Seal	EPDM
Shaft	Stainless Steel 304
Bearing bush	Brass
Spring	Stainless Steel 304

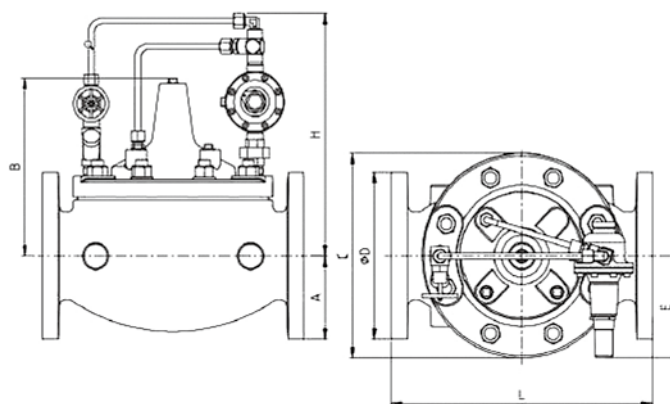
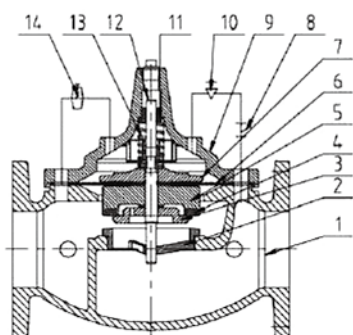


Dimensions		Pressure rating	Size(mm)						
DN	inch	psi	φ D	L	H	A	B	C	E
80	3	300	190	283	120	120	296	300	238
100	4	300	229	305	127.5	120	365	305	182
150	6	300	280	394	182	120	402	330	218
200	8	300	345	457	214	120	424	365	248

Pressure Reducing Valve



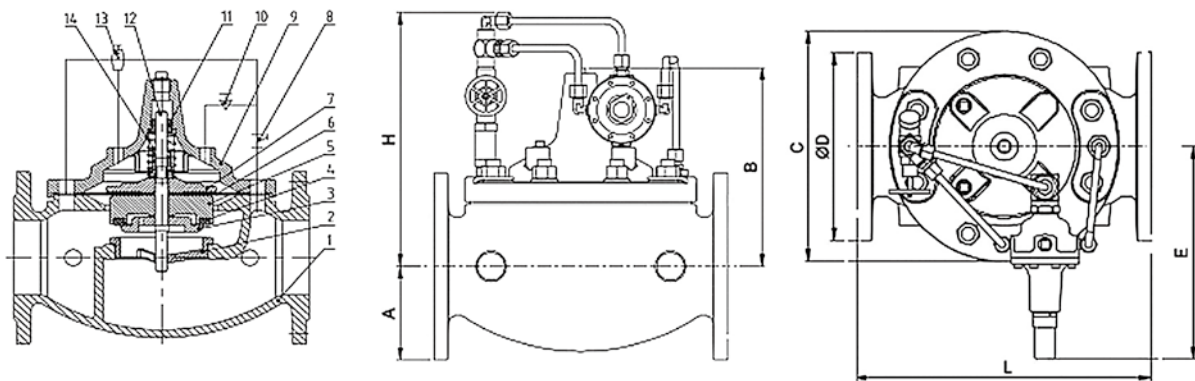
No.	Name of parts	Material
1	Body	Ductile Iron AS1831 500-7
2	valve seat	Stainless Steel 304
3	Valve plate	Stainless Steel 304
4	seal gasket	EPDM AS1646
5	valve disk	Ductile Iron AS1831 500-7
6	diaphragm	EPDM+Nylon
7	Diaphragm plate	Ductile Iron AS1831 500-7
8	Filter	Stainless Steel 304
9	Valve cover	Ductile Iron AS1831 500-7
10	Needle	Stainless Steel 304
11	Guiding plug	Stainless Steel 304
12	Valve shaft	Stainless Steel 304
13	Spring	Stainless Steel 304
14	Pilot-Relief valve	Stainless Steel 304



Dimensions		Pressure rating	Size(mm)						
DN	inch		φ D	L	H	A	B	C	E
50	2	300	152	230	294	82.5	152	155	134
65	2-1/2	300	178	290	298	92.5	170	190	134
80	3	300	191	310	310	100	197	233	134
100	4	300	229	360	320	110	234	270	134
150	6	300	279	500	352	158	311	378	134
200	8	300	343	610	382	190	377	496	134

Pressure Relief Valve

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		φ D	L	H	A	B	C	E
50	2	300	152	230	274	75	152	155	220
65	2.5	300	178	290	278	90	170	190	222
80	3	300	191	310	290	95	197	233	238
100	4	300	229	360	300	115	234	270	250
150	6	300	279	500	332	140	311	378	258
200	8	300	343	610	362	172	377	496	273

LEDE Ductile Iron Valve for Fire Protection

