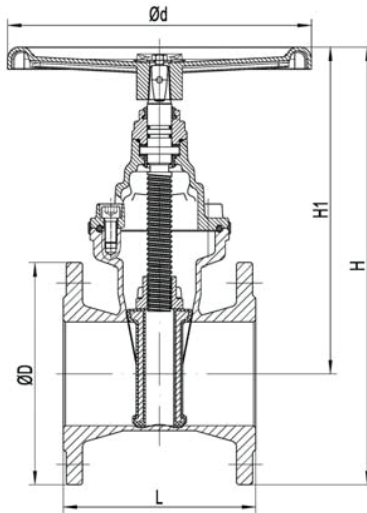


DIN F4 Resilient seated NRS gate valve-flange end

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



Technical data >

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

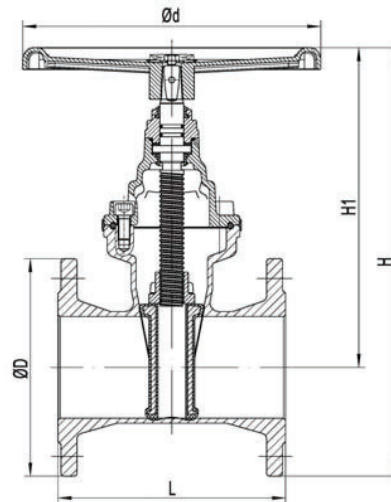
Dimensions		Pressure rating	Size (mm)				
DN	inch	PN	ΦD	L	H1	H	Φd
50	2	16	165	150	256	338.5	203
		25					
65	2.5	16	185	170	256	348.5	203
		25					
80	3	16	200	180	273.5	373.5	203
		25					
100	4	16	220	190	323.5	433.5	300
		25				441	
125	5	16	250	200	376	501	300
		25				511	
150	6	16	285	210	423.5	566	300
		25				573.5	
200	8	16	340	230	530.5	700.5	406
		25				710.5	
250	10	16	400	250	645	845	406
		25				857.5	
300	12	16	455	270	725.5	953	406
		25				953	

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



Technical data >

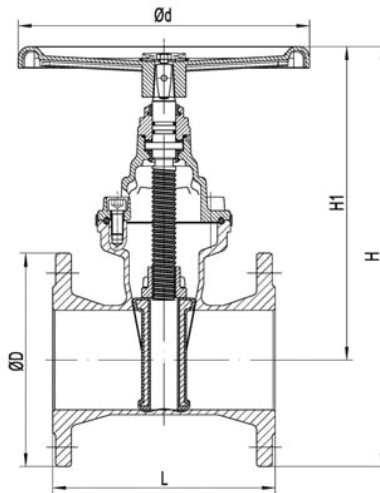
- Sizes: DN50~DN300
- Working pressure: PN16/PN25
- Valve standard: BS5163
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80 °C

Dimensions		Pressure rating	Size (mm)				
DN	inch	PN	ΦD	L	H1	H	Φd
50	2	16	165	150	256	338.5	203
		25					
65	2.5	16	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	16	455	270	725.5	953	406
		25	485			953	

AWWA C515 Resilient seated NRS 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	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

- Sizes: 2" ~ 12"
- Working pressure: 175PSI, 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	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 Resilient seated NRS gate valve-flange end with indicator post flange

Model No. Z45X-04

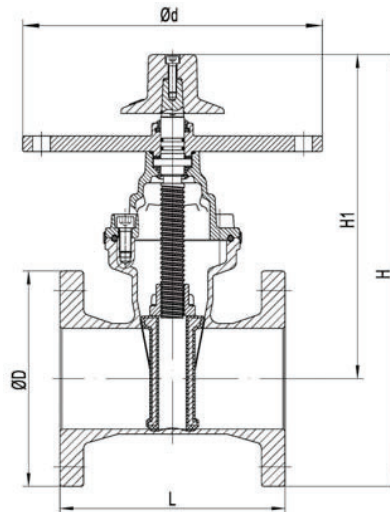


Name of parts	Material
Body	Ductile iron
Wedg	Ductile iron+EPDM
Stem Nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Indicator Post Flange	Ductile iron
Sliding disc	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Wrench Nut	Ductile iron

04

Technical data >

- Sizes: 2" ~ 12"
- Working pressure: 175PSI, 300PSI
- Valve standard: AWWA C515
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0 ~ 80 C

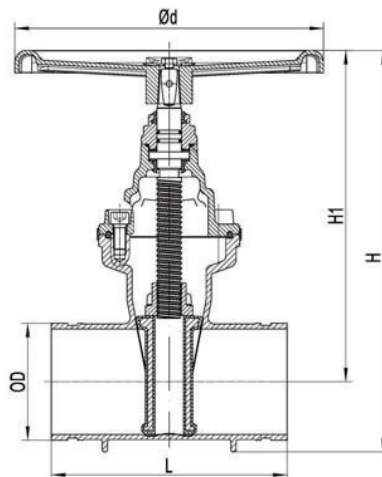


Dimensions		Pressure rating	Size (mm)				
DN	inch		psi	ΦD	L	H1	H
100	4	175	229	229	332.5	449	305
		300					
125	5	175	254	254	385	512	305
		300					
150	6	175	279	267	432.5	572	305
		300					
200	8	175	343	292	527	698.5	305
		300					
250	10	175	406	330	645	848	305
		300					
300	12	175	483	356	722	963.5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

Resilient seated NRS gate valve grooved 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	Bronze
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

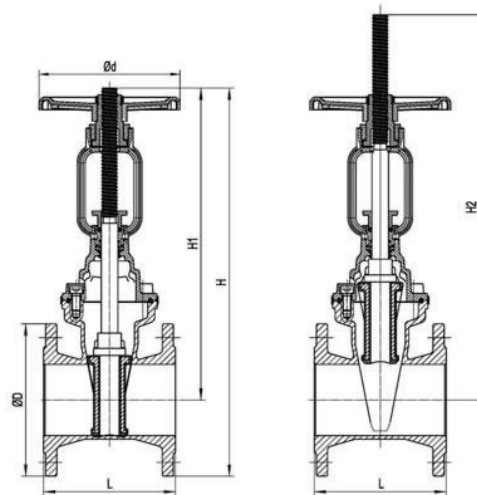
Dimensions		Pressure rating	Size (mm)				
DN	inch		psi	ΦD	L	H1	H
50	2	362	60.3	178	256	301	203
65	2.5		73			190	
		76.1	309				
80	3	362	88.9	203	273.5	333	203
100	4	362	114.3	229	323.5	396	300
			125			5	
		141.3	462				
150	6	362	165.1	267	423.5	521	300
			168.3			523	
200	8	362	219.1	292	530.5	660	406

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



Technical data >

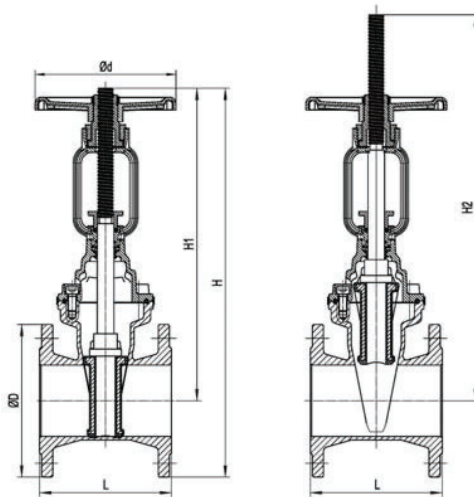
- Sizes: DN50~DN300
- Working pressure: PN16/PN25
- Valve standard: EN1171
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80 C

Dimensions		Pressure rating	Size (mm)					
DN	inch		PN	ΦD	L	H1	H2	H
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 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	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron



Technical data >

- Sizes: 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
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				
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															
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																												
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																																									
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																																																						
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																																																																			
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																																																																																
300	12	16	455	356	1045.5	1353	1273	406																																																																																													
		25	485	502			1288																																																																																														

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

Model No. Z41X-03

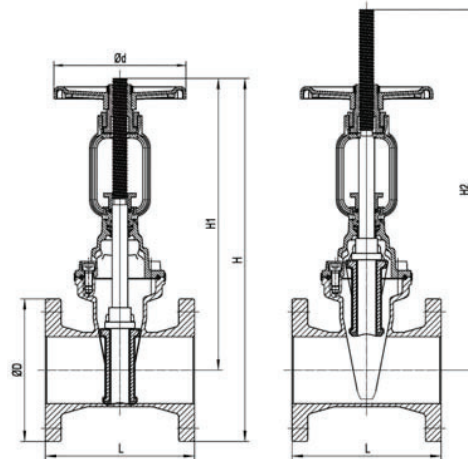


Name of parts	Material
Body	Ductile iron
Wedg	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304, SS316, bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Yoke	Ductile iron
Sliding disc	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

08

Technical data >

- Sizes: 2" ~ 12"
- Working pressure: 175PSI, 300PSI
- Valve standard: AWWA C515
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0 ~ 80 C

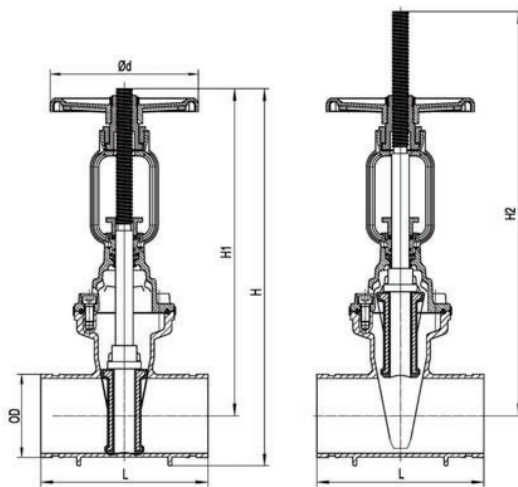


Dimensions		Pressure rating	Size (mm)					
DN	inch		psi	ΦD	L	H1	H2	H
50	2	175	152	178	358.5	420.5	434.5	203
		300						
65	2.5	175	178	190	359.5	429.5	448.5	203
		300						
80	3	175	191	203	378	462	473.5	203
		300						
100	4	175	229	229	449.5	553	564	203
		300						
125	5	175	254	254	549.5	677	676.5	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						

Resilient seated OS&Y gate valve-grooved end

Model No. Z81X

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	Bronze
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	OD	L	H1	H2	H
50	2	362	60.3	178	358.5	420.5	403.5	203
65	2.5		73					
			76.1	190	359.5	429.5	411	203
80	3	362	88.9	203	378	462	437.5	203
100	4	362	114.3	229	449.5	553	518.5	300
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