



TEKNİK DÖKÜMANLAR.

TECHNICAL DOCUMENTS.

Hakkımızda Biz Kimiz?



Endüstriyel Vana Uzmanlığı:

Venturi Valves olarak, endüstriyel vana tasarımı ve üretiminde yüksek kalite standartlarını temel alan bir mühendislik firmasıyız.



Ar-Ge ve İnovasyon Odaklı Yaklaşım:

Ürünlerimizin tamamı, uzun ömürlü, güvenilir ve kullanıcı dostu çözümler sunacak şekilde mühendislik, Ar-Ge ve test süreçlerinden geçirilir.



Sektörel Deneyim:

Petrol & gaz, kimya, enerji, su arıtma, HVAC ve birçok ağır sanayi uygulamasında, müşterilerimize en uygun vana çözümlerini sunuyoruz.



Kaliteye Bağlılık:

ISO 9001, CE ve diğer uluslararası kalite sertifikalarımız ile üretimimizin her aşamasında kalite güvence sistemlerini uyguluyoruz.



Müşteri Odaklılık:

Her müşterimizin ihtiyacına özel çözümler geliştirerek uzun vadeli iş birlikleri kurmayı hedefliyoruz.



Sürdürülebilirlik ve Çevre Duyarlılığı:

Çevreye duyarlı üretim teknikleri ve enerji verimliliği sağlayan ürün tasarımlarıyla, sürdürülebilir bir gelecek için katkı sağlıyoruz.



Global Vizyon:

Venturi Valves, yerel uzmanlığını global ölçekte rekabet gücüne dönüştürerek dünya çapında bir marka olma hedefiyle yoluna devam etmektedir.



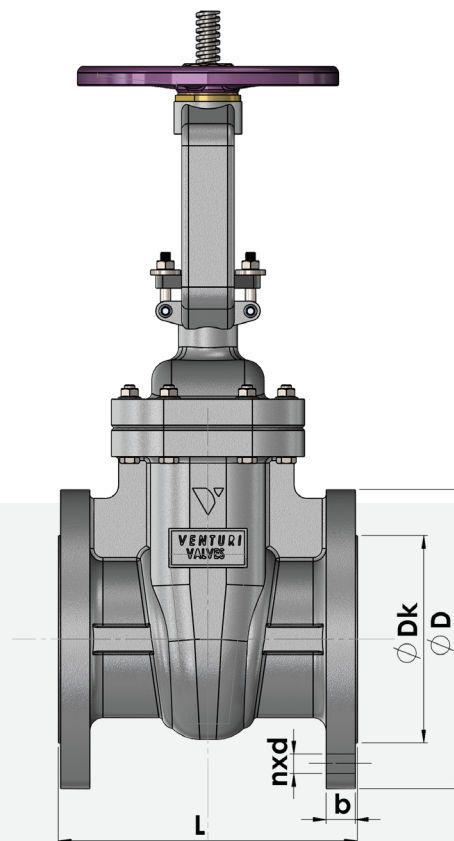
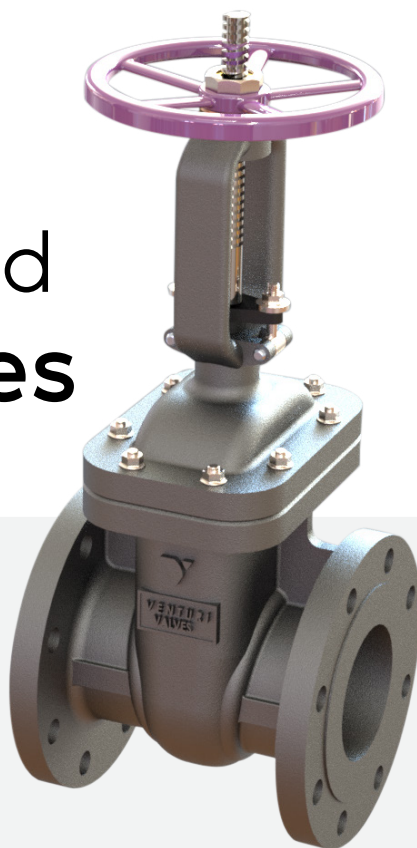
İçindekiler



Metal Seated Gate Valves

DN50-DN600

PN16-PN160



List of Materials

List of Materials							
Item	Part	Material Group acc. to EN 12516-1					
		Application					
		up to 400 °C	up to 550 °C	up to 550 °C	up to 600 °C	-196 °C - 600 °C	-196 °C - 600 °C
1	Body	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
2	Bonnet	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
3	Wedge	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
4	Body Welded on with	13Cr	17Cr (up to 450 °C) or Stellite			Basic material or Stellite	
5	Wedge Welded on with	13Cr	17Cr (up to 450 °C) or Stellite			Basic material or Stellite	
6	Stem	1.4021 / 1.4122				1.4301	1.4571
7	Stem Nut	1.0715 / 1.7225				Cu alloy	
8	Stut Bolts	A193 B7/1.7225	A193 B16/1.7709			A193 B8/1.4301	A193 B8M/1.4401
9	Nuts	A194 2H/1.1191	A194 4/1.7709			A194 8/1.4301	A194 8M
10	Bonnet Gasket	reinforced pure graphite					
11	Steam Packing	graphite with corrosion inhibitor					
12	Handwheel	steel					

Standarts

Gate Valves according to EN 558-1	PN 16 / PN 25	PN 40 / PN 63 / PN 100 / PN 160
Face-to-face dimensions	EN 1759-1	EN 1759 - 1 or Manufacturer standard
Flanged ends	EN 1759 - 1	
End-to-end dimensions	EN 12982, Serie 15	EN 12982, Serie 26 or Manufacturer standard
Welding ends	EN 12627	

Dimensions PN16

DN		50	65	80	100	125	150	200	250	300	350	400	500	600
[mm]	L	250	270	280	300	325	350	400	450	500	550	600	700	800
	D	165	185	200	220	250	285	340	405	460	520	580	715	840
	Dk	125	145	160	180	210	240	295	355	410	470	525	650	770
	b	18	18	20	20	22	22	24	26	28	30	32	44	54
	nxd	4x18	2x18	8x18	8x18	8x18	8x22	12x22	12x26	12x26	16x26	16x30	20x33	20x36

Dimensions PN25

DN		50	65	80	100	125	150	200	250	300	350	400	500	600
[mm]	L	250	270	280	300	325	350	400	450	500	550	600	700	800
	D	165	185	200	235	250	300	360	425	485	555	620	715	845
	Dk	125	145	160	190	220	250	310	370	430	490	550	650	770
	b	20	22	24	24	26	28	30	32	34	38	40	44	58
	nxd	4x18	8x18	8x18	8x18	8x26	8x26	12x26	12x30	16x30	16x33	16x36	20x36	20x39

Dimensions PN40

DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	250	290	310	350	400	450	550	650	750	850	950	914	1150	1350
	D	165	185	200	235	270	300	375	450	515	580	660	685	755	890
	Dk	125	145	160	190	220	250	320	385	450	510	585	610	670	795
	b	20	22	24	24	26	28	34	38	42	46	50	50	57	72
	nxd	4x18	8x18	8x18	8x22	8x26	8x26	12x30	12x33	16x33	16x36	16x39	20x39	20x42	20x48

Dimensions PN63

DN		50	65	80	100	125	150	200	250	300	350	400	450	500
[mm]	L	250	290	310	350	400	450	550	650	750	762	950	914	1150
	D	180	205	215	250	295	345	415	470	530	600	670	715	800
	Dk	135	160	170	200	240	280	345	400	460	525	585	630	705
	b	26	26	28	30	34	36	42	46	52	56	60	64	68
	nxd	4x22	8x22	8x22	8x26	8x30	8x33	12x36	12x36	16x36	16x39	16x42	20x42	20x48

Dimensions PN100

DN		50	65	80	100	125	150	200	250	300	350	400	500
[mm]	L	250	290	310	350	400	450	550	650	750	850	991	1150
	D	195	220	230	265	315	355	430	505	585	655	715	870
	Dk	145	170	180	210	250	290	360	430	500	560	620	760
	b	30	34	36	40	40	44	52	60	68	74	78	94
	nxd	4x26	8x26	8x26	8x30	8x33	12x33	12x36	12x39	16x42	16x48	16x48	20x56

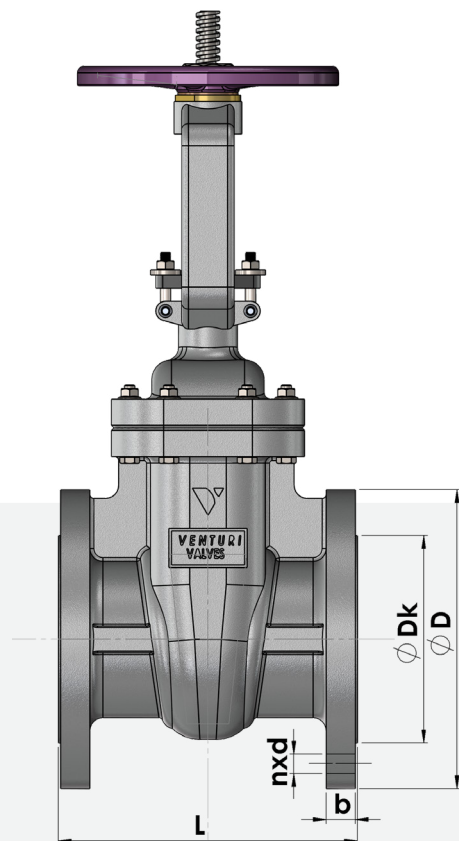
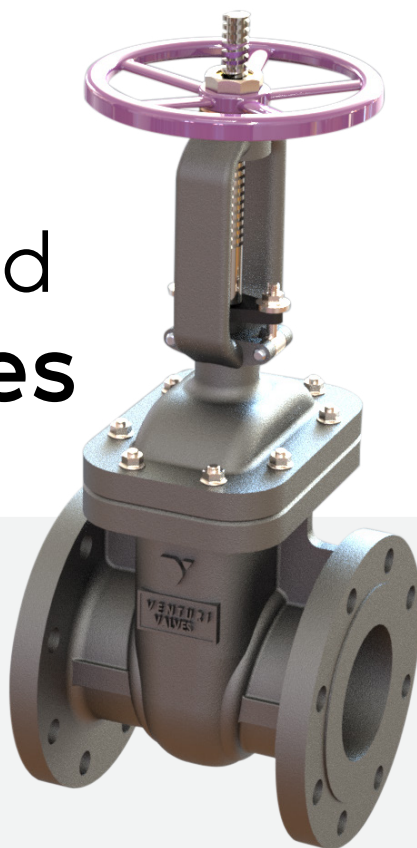
Dimensions PN160

DN		50	65	80	100	150	200	250	300
[mm]	L	368	419	310	450	600	750	838	965
	D	195	220	230	265	355	430	515	585
	Dk	145	170	180	210	290	360	430	500
	b	30	34	36	40	50	60	68	70
	nxd	4x26	8x26	8x26	8x30	8x33	12x36	12x42	16x42

Metal Seated Gate Valves

DN50-DN600

CL150-CL1500



List of Materials

List of materials		Material Group acc. to ASME B16.34					
Item	Part						
		Application					
		-29 °C/+425 °C	-46 °C/+345 °C	-29 °C/+595 °C	-29 °C/+600 °C	-196 °C/+600 °C	-196 °C/+600 °C
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8
2	Bonnet	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8
3	Wedge	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8
4	Body Welded on with	13Cr or HF (Stellite)				Basic material or Stellite	
5	Wedge Welded on with	13Cr or HF (Stellite)				Basic material or Stellite	
6	Stem	SS420				SS304 / SS316	
7	Stem Nut	Cu alloy					
8	Stut Bolts	A193 B7		A193 B16/1.7709		A193 B8 or A193 B8M	
9	Nuts	A194 2H		A193 B16/1.7709		A194 8 or A194 8M	
10	Bonnet Gasket	Class 150: reinforced pure graphite, Class 300÷1500: spiral wound or oval metal ring					
11	Steam Packing	braided graphite with corrosion inhibitor					
12	Handwheel	cast carbon steel					

Standarts

Gate Valves according to ASME B16.34	CL150 - CL1500
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5
Welding ends	ASME B16.25

Dimensions CL150

DN		50	65	80	100	125	150	200	250	300	350	400	500	600	650
[mm]	L	178	190	203	229	267	292	330	356	381	406	432	457	508	599
	D	150	180	190	230	280	345	405	485	535	595	635	700	815	870
	Dk	120,7	139,7	152,4	190,5	241,3	298,5	362	431,8	476,3	539,8	577,9	635	749,3	806,4
	b	19	22,7	24,3	24,3	25,9	29	30,6	32,2	35,4	37	40,1	43,3	48,1	68,3
	nxd	4x19,0	4x19,0	4x19,0	4x19,0	8x22,2	8x22,2	12x25,4	12x25,4	12x25,4	16x28,6	16x31,7	20x31,7	20x34,9	24x35,1

Dimensions CL300

DN		50	65	80	100	150	200	250	300	350	400	450	500	600
[mm]	L	216	241	282	305	403	419	457	502	762	838	914	991	1143
	D	165	190	210	255	320	380	445	520	585	650	710	775	915
	Dk	127	149,2	168,3	200	269,9	330,2	387,4	450,8	514,4	571,5	628,6	685,8	812,8
	b	22,7	25,9	29	32,2	37	41,7	48,1	51,3	54,4	57,6	60,8	64	70,3
	nxd	8x19,0	8x22,2	8x22,2	8x22,2	12x22,2	12x25,4	16x28,6	16x31,7	20x31,7	20x34,9	24x34,9	24x34,9	24x41,3

Dimensions CL600

DN		50	65	80	100	150	200	250	300	350	400	450	500
[mm]	L	292	330	356	432	559	660	787	838	889	991	1092	1194
	D	165	190	210	275	355	420	510	560	605	685	745	815
	Dk	127	149,2	168,3	215,9	292,1	349,2	431,8	489	527	603,2	654	723,9
	b	32,4	35,6	38,8	45,1	54,7	62,6	70,5	73,7	76,7	83,2	89,6	95,9
	nxd	8x19,0	8x22,2	8x22,2	8x25,4	12x28,6	12x31,7	16x34,9	20x34,9	20x38,1	20x41,3	20x44,4	24x44,4

Dimensions CL900

DN		50	65	80	100	150	200	250	300
[mm]	L	368	419	381	457	610	737	838	965
	D	215	245	240	290	380	470	545	610
	Dk	165,1	190,5	190,5	235	317,5	393,7	469,9	533,4
	b	8x25,4	8x28,6	8x25,4	8x31,7	12x31,7	12x38,1	16x38,1	20x38,1
	nxd	45,1	48,3	45,1	51,5	62,6	70,5	76,9	86,4

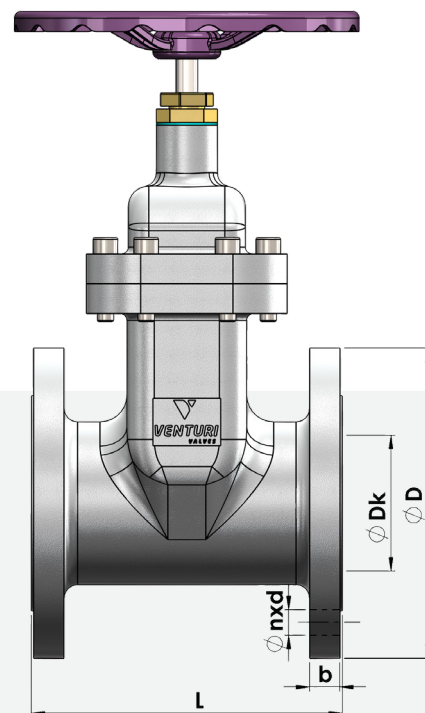
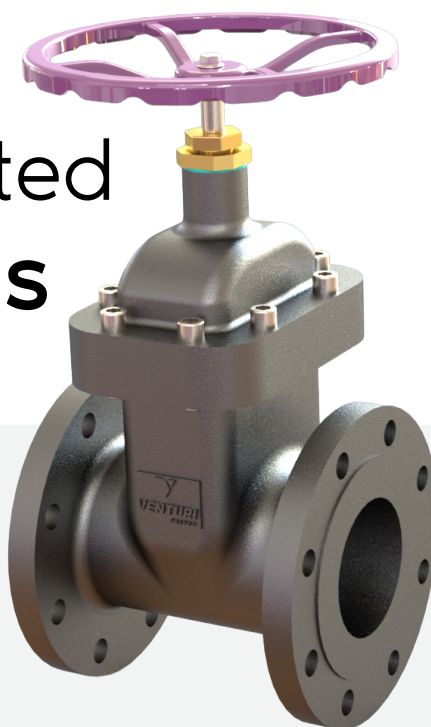
Dimensions CL1500

DN		50	65	80	100	150
[mm]	L	368	419	470	546	705
	D	215	245	245	310	395
	Dk	165,1	190,5	190,5	241,3	317,5
	b	8x25,4	8x28,6	8x28,6	8x34,9	12x38,1
	nxd	45,1	48,3	45,1	61	89,6

Resilient Seated Gate Valves

DN40-DN600

PN10-PN25



List of Materials

Item	Part	Material Group acc. to EN 12516-1	
		Application	
		-10 °C / +80 °C	-10 °C / +110 °C
1	Body	0.6025	0.7040
2	Bonnet	0.6025	0.7040
3	Wedge	EPDM or NBR	
4	Stem	1.4021 / 1.4122	1.4301
5	Stem Nut	1.4021 / 1.4122	1.4301
6	Stud Bolts	A193 B7/1.7225	A193 B8/1.4301
7	Nuts	A193 B7/1.7225	A193 B8/1.4301
8	Bonnet Gasket	reinforced pure graphite	
9	Steam Packing	graphite with corrosion inhibitor	
10	Handwheel	steel	

Standarts

Gate Valves according to EN 1171	PN 10 / PN 16	PN 25
Face-to-face dimensions	EN 558-14 / DIN3202 F4	EN 558 BASIC SERIE 3v
Flanged ends	EN 1092-2 / ISO7005-2	
End-to-end dimensions	EN 12982	

Dimensions PN10

DN		40	50	65	80	100	125	150	200	250	300	350	400	500	600
[mm]	L	140	150	170	180	190	200	210	230	250	270	270	310	350	390
	D	150	165	170	200	220	250	285	340	400	455	455	565	670	780
	Dk	84	99	118	132	156	184	211	266	319	370	370	480	582	682
	b	19	19	19	19	19	19	19	20	22	24,5	24,5	24,5	26,5	30
	nxd	4x19	4x19	4x19	8x19	8x19	8x19	8x23	8x23	12x23	12x23	16x23	16x28	20x28	20x31

Dimensions PN16

DN		40	50	65	80	100	125	150	200	250	300	350	400	500	600
[mm]	L	140	150	170	180	190	200	210	230	250	270	270	310	350	390
	D	150	165	170	200	220	250	285	340	400	455	455	565	670	780
	Dk	84	99	118	132	156	184	211	266	319	370	370	480	582	682
	b	19	19	19	19	19	19	19	20	22	24,5	24,5	24,5	26,5	30
	nxd	4x19	4x19	4x19	8x19	8x19	8x19	8x23	8x23	12x28	12x28	16x28	16x31	20x34	20x37

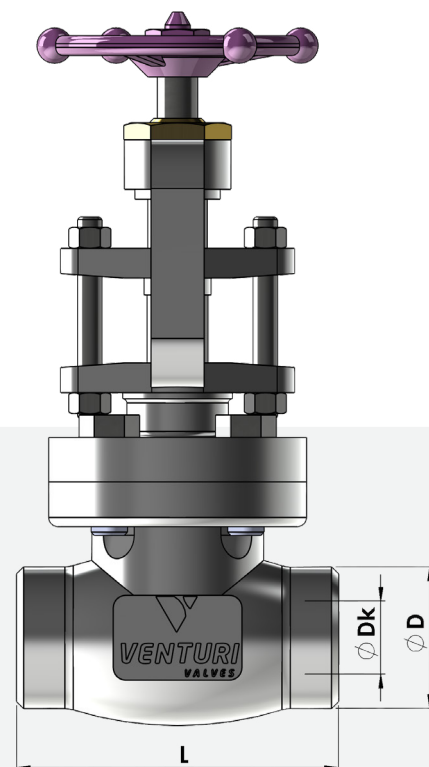
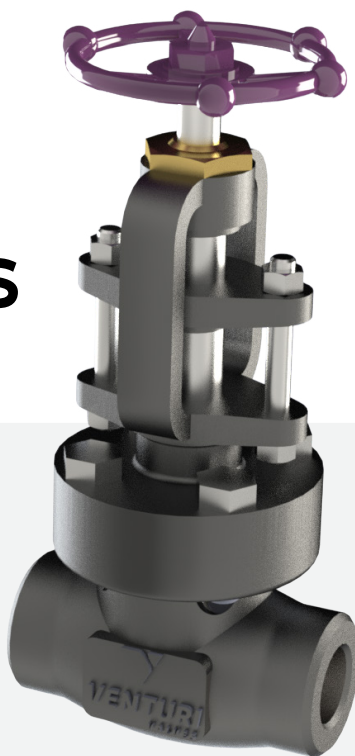
Dimensions PN25

DN		50	80	100	150	200	250	300	400
[mm]	L	178	203	229	267	292	330	356	406
	D	165	200	235	300	360	425	485	620
	Dk	98	133	159	214	274	331	389	503
	b	19	19	19	19	20	22	24	28
	nxd	4x18	8x18	8x18	8x22	12x22	12x26	12x26	16x30

Forged Gate Valves

DN15-DN50

CL150-CL1500



List of Materials

List of Materials											
Item	Part	Material Group acc. to ASME B16.34									
		Application									
		-46°C/+425°C	-46°C/+425°C	-29°C/+595°C	-29°C/+595°C	-29°C/+600°C	-29°C/+600°C	-196°C/+550°C	-196°C/+550°C	-196°C/+540°C	-196°C/+540°C
1	Body	A105	A350 LF2	A182 F12	A182 F22	A182 F5	A182 F91	A182 F304	A182 F316	A182 F321	A182 F347
2	Bonnet	A105	A350 LF2	A182 F12	A182 F22	A182 F5	A182 F91	A182 F304	A182 F316	A182 F321	A182 F347
3	Wedge	A217 CA15		A351 CF8M							
4	Body Welded on with	13Cr or HF						Basic material or Stellite			
5	Wedge Welded on with	13Cr or HF						Basic material or Stellite			
6	Stem	SS 420						SS 304 / SS 316			
7	Stem Nut	SS 420						SS 304 / SS 316			
8	Stud Bolts	A193 B7		A193 B16 / 1.7709				A193 B8 or A193 B8M			
9	Nuts	A194 2H		A194 4 / 1.7709				A194 8 or A194 8M			
10	Bonnet Gasket	spiral - wound									
11	Steam Packing	graphite with corrosion inhibitor									
12	Handwheel	forged carbon steel									

Standarts

Gate Valves according to ASME B16.34	CL150 - CL1500
Socket Welding end SW	ASME B16.11
Butt Welding end BW	ASME B16.25
Threaded end NPT	ASME B1.20.1
Face-to-face (FTF) / End-to-end (ETE)	ASME B16.10 and Manufacturer standard
Flanged ends	ASME B16.5

Dimensions CL800-SW

DN		15	20	25	40	50
[mm]	L	80	90	110	127	134
	Dk	9,6	14	18	30	36,5
	D	32	38	48	64	78

Dimensions CL1500-SW

DN		15	20	25	40	50
[mm]	L	90	110	127	127	210
	Dk	9,6	14	18	30	36,5
	D	32	48	56	78	85

Dimensions CL150

DN		15	20	25	32	40	50
[mm]	L	108	117	127	140	165	178
	D	90	100	110	115	125	150
	Dk	60,3	69,9	79,4	88,9	98,4	120,7
	b	11,6	13,2	14,7	16,3	17,9	19,5
	nxd	4x15,9	4x15,9	4x15,9	4x15,9	4x15,9	4x19,0

Dimensions CL300

DN		15	20	25	32	40	50
[mm]	L	140	152	165	178	190	216
	D	95	115	125	135	155	165
	Dk	66,7	82,6	88,9	98,4	114,3	127
	b	14,7	16,3	17,9	19,5	21,1	22,7
	nxd	4x15,9	4x19,0	4x19,0	4x19,0	4x22,2	8x19,0

Dimensions CL600

DN		15	20	25	32	40	50
[mm]	L	165	190	216	229	241	292
	D	95	115	125	135	155	165
	Dk	66,7	82,6	88,9	98,4	114,3	127
	b	21,3	22,9	24,5	27,7	29,3	32,4
	nxd	4x15,9	4x19,0	4x19,0	4x19,0	4x22,2	8x19,0

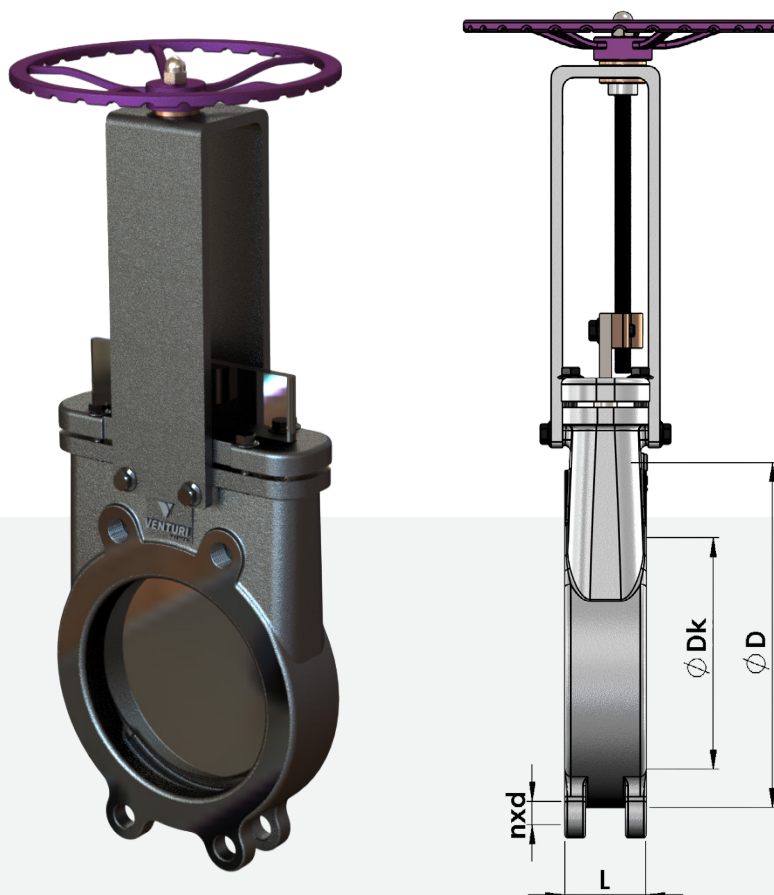
Dimensions CL1500

DN		15	20	25	32	40
[mm]	L	216	229	254	279	305
	D	120	130	150	160	180
	Dk	82,6	88,9	101,6	111,1	123,8
	b	29,3	32,4	35,6	35,6	38,8
	nxd	4x22,2	4x22,2	4x25,4	4x25,4	4x28,6

Knife Gate Valves

DN50-DN600

PN10-PN16



List of Materials

Item	Part	Material Group acc. to EN 12516-1		
		Application		
		-10 °C / +80 °C	-10 °C / +130 °C	-10 °C / +170 °C
1	Body	0.6025 / 0.7043 / 1.4021 / 1.4301		
2	Bonnet	0.6025 / 0.7043 / 1.4021 / 1.4301		
3	Wedge / Seat	Metal to Metal	EPDM/NBR	VITON / PTFE
4	Stem	1.4021 / 1.4122		1.4301
5	Stem Nut	1.4021 / 1.4122		1.4301
6	Stud Bolts	A193 B7/1.7225		A193 B8/1.4301
7	Nuts	A193 B7/1.7225		A193 B8/1.4301
8	Bonnet Gasket	reinforced pure graphite		
9	Steam Packing	graphite with corrosion inhibitor		
10	Handwheel	steel		

Standarts

Gate Valves according to EN 1171	PN 10 / PN 16
Face-to-face dimensions	EN 558-Serie 16
Flanged ends	EN 1092-2 / ISO7005-2
End-to-end dimensions	EN 12982

Dimensions PN10

DN		65	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	40	40	50	50	50	60	60	70	70	96	100	106	110	110
	Dk	124	139	154	174	189	220	275	326	380	438	494	547	613	716
	D	283	308	333	378	423	474	593	685	792	900	978	1105	1215	1418
	nxd	4x16	4x16	4x16	4x16	4x16	4x20	4x20	8x20	8x20	10x20	10x24	14x24	14x24	14x27

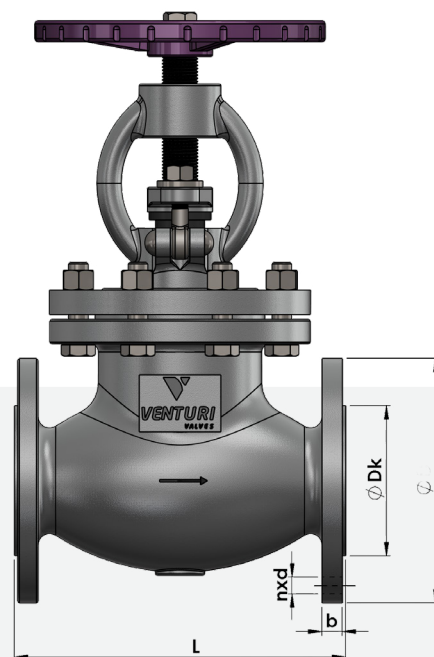
Dimensions PN16

DN		65	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	40	40	50	50	50	60	60	70	70	96	100	106	110	110
	Dk	124	139	154	174	189	220	275	326	380	438	494	547	613	716
	D	283	308	333	378	423	474	593	685	792	900	978	1105	1215	1418
	nxd	4x16	4x16	4x16	4x16	4x16	4x20	4x20	8x20	8x20	10x20	10x24	14x24	14x24	14x27

Standard Globe Valves

DN50-DN600

PN16-PN160



List of Materials

List of Materials							
Item	Part	Material Group acc. to EN 12516-1					
		Application					
		up to 400 °C	up to 550 °C	up to 550 °C	up to 600 °C	-196 °C - 600 °C	-196 °C - 600 °C
1	Body	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
2	Bonnet	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
3	Plug/Disc	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
4	Body Welded on with	13Cr	17Cr (up to 450 °C) or Stellite			Basic material or Stellite	
5	Plug/Disc Welded on with	13Cr	17Cr (up to 450 °C) or Stellite			Basic material or Stellite	
6	Stem	1.4021 / 1.4122				1.4301	1.4571
7	Stem Nut	1.0715 / 1.7225					
8	Stut Bolts	A193 B7/1.7225	A193 B16/1.7709			A193 B8/1.4301	A193 B8M/1.4401
9	Nuts	A194 2H/1.1191	A194 4/1.7709			A194 8/1.4301	A194 8M
10	Bonnet Gasket	reinforced pure graphite					
11	Steam Packing	graphite with corrosion inhibitor					
12	Handwheel	steel					

Standarts

Globe Valves according to EN 13709	PN 16 / PN 25 / PN40	PN 40 / PN 63 / PN 100 / PN 160
Face-to-face dimensions	EN 558, Serie 1	EN 558, Serie 2
Flanged ends	EN 1092 - 1	
End-to-end dimensions	EN 12982, Serie 64	EN 12982, Serie 65
Welding ends	EN 12627	

Dimensions PN16

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
[mm]	L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
	D	95	105	115	140	150	165	185	200	220	250	285	340	405	460	555
	Dk	65	75	85	100	110	125	145	160	180	210	240	295	355	410	490
	b	16	18	18	18	18	18	18	20	20	22	22	24	26	28	30
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	(2)x18	8x18	8x18	8x18	8x22	12x22	12x26	12x26	16x26

Dimensions PN25

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
[mm]	L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
	D	95	105	115	140	150	165	185	200	235	270	300	360	425	485	555
	Dk	65	75	85	100	110	125	145	160	190	220	250	310	370	430	490
	b	16	18	18	18	18	20	22	24	24	26	28	30	32	34	38
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x26	12x30	16x30	16x33

Dimensions PN40

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
[mm]	L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
	D	95	105	115	140	150	165	185	200	235	270	300	375	450	515	580
	Dk	65	75	85	100	110	125	145	160	190	220	250	320	385	450	510
	b	16	18	18	18	18	20	22	24	24	26	28	34	38	42	46
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	12x33	16x33	16x36

Dimensions PN63

DN		15	20	25	32	40	50	65	80	100	125	150	200	250
[mm]	L	130	150	160	180	200	230	290	310	350	400	480	600	730
	D	95	105	115	140	150	165	185	200	235	270	300	375	450
	Dk	65	75	85	100	110	125	145	160	190	220	250	320	385
	b	16	18	18	18	18	20	22	24	24	26	28	34	38
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	12x33

Dimensions PN100

DN		15	20	25	32	40	50	65	80	100	125	150	200	250
[mm]	L	210	230	230	260	260	300	340	380	430	500	550	650	775
	D	105	130	140	155	170	195	220	230	265	315	355	430	505
	Dk	75	90	100	110	125	145	170	180	210	250	290	360	430
	b	20	22	24	26	28	30	34	36	40	40	44	52	60
	nxd	4x14	4x18	4x18	4x22	4x22	4x26	8x26	8x26	8x30	8x33	12x33	12x36	12x39

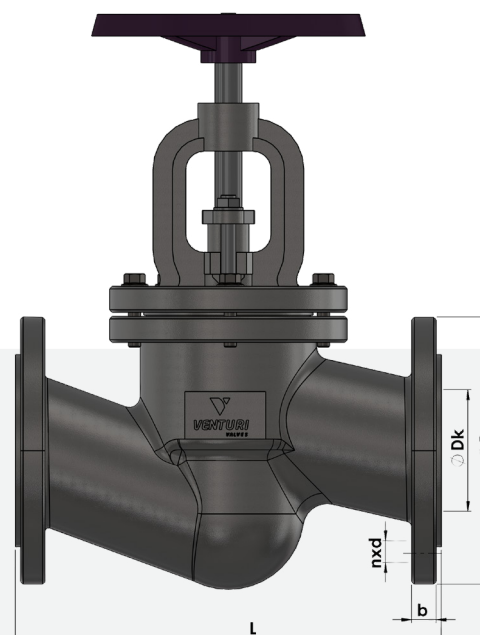
Dimensions PN160

DN		15	20	25	32	40	50	65	80	100	125	150	200
[mm]	L	210	230	230	260	260	300	340	380	430	500	550	650
	D	105	130	140	155	170	195	220	230	265	315	355	430
	Dk	75	90	100	110	125	145	170	180	210	250	290	360
	b	20	22	24	26	28	30	34	36	40	44	50	60
	nxd	4x14	4x18	4x18	4x22	4x22	4x26	8x26	8x26	8x30	8x33	12x33	12x36

Metal Bellows Globe Valves

DN15-DN300

PN16-PN40



List of Materials

List of Materials					
Item	Part	Material Group acc. to EN 12516-1			
		Application			
		-10 °C / +300 °C	-10 °C / +350 °C	-10 °C / +400 °C	
1	Body	EN-JL 1040	EN-GJS-400	1.0619	
2	Bonnet	EN-JL 1040	EN-GJS-400	1.0619	
3	Plug/Disc	1.4021	1.4021	A 217 Gr.CA15	
4	Body Welded on with	13Cr or HF (Stellite)			
5	Plug/Disc Welded on with	13Cr or HF (Stellite)			
6	Stem	1.4021 / 1.4122		1.4301	1.4571
7	Stem Nut	1.0715 / 1.7225			
8	Stut Bolts	A193 B7/1.7225	A193 B16 / 1.7709		A193 B8/1.4301 A193 B8M/1.4401
9	Nuts	A194 2H/1.1191	A194 4 / 1.7709		A194 8/1.4301 A194 8M
10	Bonnet Gasket	reinforced pure graphite			
11	Steam Packing	graphite with corrosion inhibitor			
12	Handwheel	steel			

Standarts

Globe Valves according to EN 13709	PN 16	PN 25	PN 40
Face-to-face dimensions	EN 558, Serie 1		
Flanged ends	EN 1092 - 1		
End-to-end dimensions	EN 12982, Serie 64		
Welding ends	EN 12627		

Dimensions PN16

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
[mm]	L	130	150	160	180	200	230	290	310	350	400	480	600	730	850
	D	95	105	115	140	150	165	185	200	220	250	285	340	405	460
	Dk	65	75	85	100	110	125	145	160	180	210	240	295	355	410
	b	16	18	18	18	18	18	18	20	20	22	22	24	26	28
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	(2)x18	8x18	8x18	8x18	8x22	12x22	12x26	12x26

Dimensions PN25

DN		15	20	25	32	40	50	65	80	100	125	150	200
[mm]	FTF/ETE	130	150	160	180	200	230	290	310	350	400	480	600
	L	95	105	115	140	150	165	185	200	235	270	300	360
	D	65	75	85	100	110	125	145	160	190	220	250	210
	DK	16	18	18	18	18	20	22	24	24	26	28	30
	b	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x26
nxd													

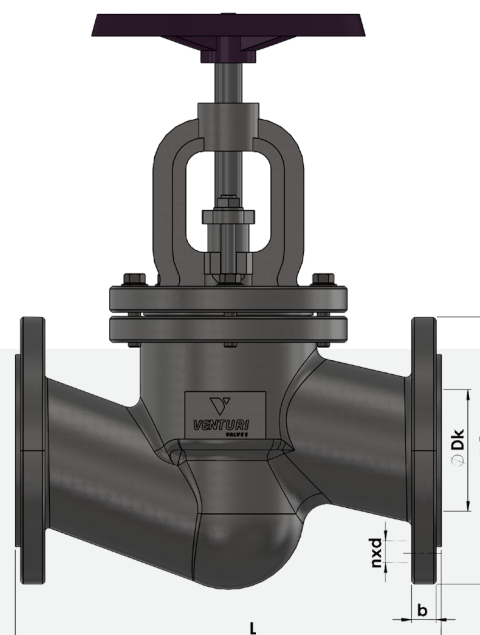
Dimensions PN40

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
[mm]	L	130	150	160	180	200	230	290	310	350	400	480	600	730	850
	D	95	105	115	140	150	165	185	200	235	270	300	375	450	515
	Dk	65	75	85	100	110	125	145	160	190	220	250	320	385	450
	b	16	18	18	18	18	20	22	24	24	26	28	34	38	42
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	12x33	16x33

Metal Bellows Globe Valves

DN15-DN300

PN16-PN40



List of Materials

List of Materials					
Item	Part	Material Group acc. to ASME B16.34			
		Application			
		-29 °C / +400 °C			
1	Body	A216 WCB			
2	Bonnet	A216 WCB			
3	Plug/Disc	A216 WCB			
4	Body Welded on with	13Cr or HF (Stellite)			
5	Plug/Disc Welded on with	13Cr or HF (Stellite)			
6	Stem	1.4021 / 1.4122		1.4301	1.4571
7	Stem Nut	1.0715 / 1.7225			
8	Stut Bolts	A193 B7/1.7225	A193 B16 / 1.7709		A193 B8/1.4301 A193 B8M/1.4401
9	Nuts	A194 2H/1.1191	A194 4 / 1.7709		A194 8/1.4301 A194 8M
10	Bonnet Gasket	reinforced pure graphite			
11	Steam Packing	graphite with corrosion inhibitor			
12	Handwheel	steel			

Standarts

Globe Valves according to ASME B16.34	CL150 - CL600
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5
Flanged ends	ASME B16.25

Dimensions CL150

DN		15	20	25	40	50	65	80	100	150	200	250
[mm]	L	108	117	127	165	203	261	241	292	406	495	622
	D	90	100	110	125	152	178	191	229	279	343	405
	Dk	60,3	69,9	79,4	98,44	120,7	139,7	152,4	190,5	241,3	298,5	362
	b	9,6	11,2	15,9	15,9	20	23	24	24	26	29	29
	nxd	4x16,0	4x16,0	4x16,0	4x16,0	4x19,0	4x19,0	4x19,0	8x19,0	8x22,2	8x22,2	12x25

Dimensions CL300

DN		15	20	25	40	50	65	80	100	150	200	250
[mm]	L	152	178	203	229	267	292	318	356	444	559	622
	D	95	115	125	155	165	191	210	254	318	381	445
	Dk	66,7	82,6	88,9	114,3	127	149,2	168,3	200	269,9	330,2	387,4
	b	12,7	14,3	15,9	19,1	23	26	29	32	37	42	46,1
	nxd	4x16,0	4x19,0	4x19,0	4x22,0	8x19,0	8x22,2	8x22,2	8x22,2	12x22,2	12x25,4	16x28

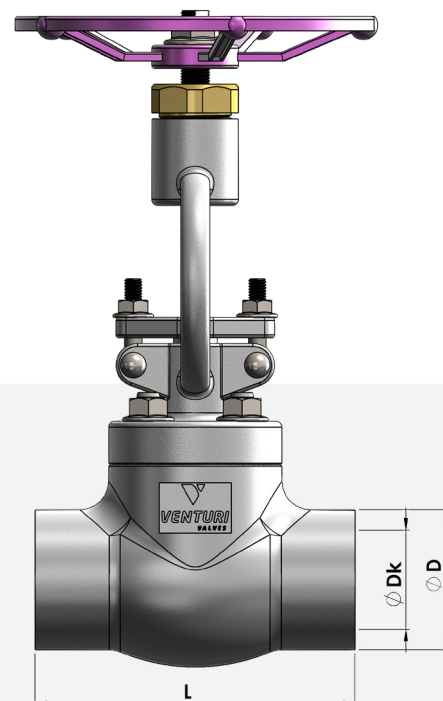
Dimensions CL300

DN		15	20	25	40	50	65	80	100	150	200	250
[mm]	L	165	190	216	241	292	330	356	432	559	660	787
	D	95	115	125	155	165	190	210	275	355	420	510
	Dk	66,7	82,6	88,9	114,3	127	149,2	168,3	215,9	292,1	349,2	431,8
	b	14,3	15,9	17,5	22,3	32,4	35,6	38,8	45,1	54,7	62,6	69,5
	nxd	4x16,0	4x19,0	4x19,0	4x22,0	8x19,0	8x22,2	8x22,2	8x25,4	12x28,6	12x31,7	16x34,9

Forged Globe Valves

DN15-DN50

CL150-CL1500



List of Materials

List of Materials											
Item	Part	Material Group acc. to ASME B16.34									
		Application									
		-29°C/+425°C	-46°C/+425°C	-29°C/+595°C	-29°C/+595°C	-29°C/+600°C	-29°C/+600°C	-196°C/+600°C	-196°C/+600°C	-196°C/+538°C	-196°C/+538°C
1	Body	A105	A350 LF2	A182 F12	A182 F22	A182 F5	A182 F91	A182 F304	A182 F316	A182 F321	A182 F347
2	Bonnet	A105	A350 LF2	A182 F12	A182 F22	A182 F5	A182 F91	A182 F304	A182 F316	A182 F321	A182 F347
3	Wedge	SS420 or SS431						SS 304 / SS 316			
4	Body Welded on with	13Cr or HF						Basic material or Stellite			
5	Wedge Welded on with	13Cr or HF						Basic material or Stellite			
6	Stem	SS 420						SS 304 / SS 316			
7	Stem Nut	SS 420						SS 304 / SS 316			
8	Stud Bolts	A193 B7		A193 B16 / 1.7709				A193 B8 or A193 B8M			
9	Nuts	A194 2H		A194 4 / 1.7709				A194 8 or A194 8M			
10	Bonnet Gasket	spiral - wound / reinforced pure graphite									
11	Steam Packing	graphite with corrosion inhibitor									
12	Handwheel	cast iron / epoxy coated steel									

Standarts

Globe Valves according to ASME B16.34	CL150 - CL1500
Socket Welding end SW	ASME B16.11
Butt Welding end BW	ASME B16.25
Threaded end NPT	ASME B1.20.1
Face-to-face (FTF) / End-to-end (ETE)	ASME B16.10 and Manufacturer standard
Flanged ends	ASME B16.5

Dimensions CL800-SW

DN		15	20	25	40	50
[mm]	L	80	90	110	150	180
	Dn	9,6	14	18	30	36,5
	D	38	38	48	64	78

Dimensions CL1500-SW

DN		15	20	25	40	50
[mm]	L	90	110	127	180	210
	Dn	9,6	14	18	30	36,5
	D	32	48	56	78	85

Dimensions CL150

DN		15	20	25	32	40	50
[mm]	L	108	117	127	140	165	178
	Dn	90	100	110	115	125	150
	D	60,3	69,9	79,4	88,9	98,4	120,7
	b	11,6	13,2	14,7	16,3	17,9	19,5
	nxd	4x15,9	4x15,9	4x15,9	4x15,9	4x15,9	4x19,0

Dimensions CL150

DN		15	20	25	32	40	50
[mm]	L	108	117	127	140	165	203
	Dn	90	100	110	115	125	150
	D	60,3	69,9	79,4	88,9	98,4	120,7
	b	11,6	13,2	14,7	16,3	17,9	19,5
	nxd	4x15,9	4x15,9	4x15,9	4x15,9	4x15,9	4x19,0

Dimensions CL300

DN		15	20	25	32	40	50
[mm]	L	152	178	203	216	229	267
	Dn	95	115	125	135	155	165
	D	66,7	82,6	88,9	98,4	114,3	127
	b	14,7	16,3	17,9	19,5	21,1	22,7
	nxd	4x15,9	4x19,0	4x19,0	4x19,0	4x22,2	8x19,0

Dimensions CL600

DN		15	20	25	32	40	50
[mm]	L	165	190	216	229	241	292
	Dn	95	115	125	135	155	165
	D	66,7	82,6	88,9	98,4	114,3	127
	b	21,3	22,9	24,5	27,7	29,3	32,4
	nxd	4x15,9	4x19,0	4x19,0	4x19,0	4x22,2	8x19,0

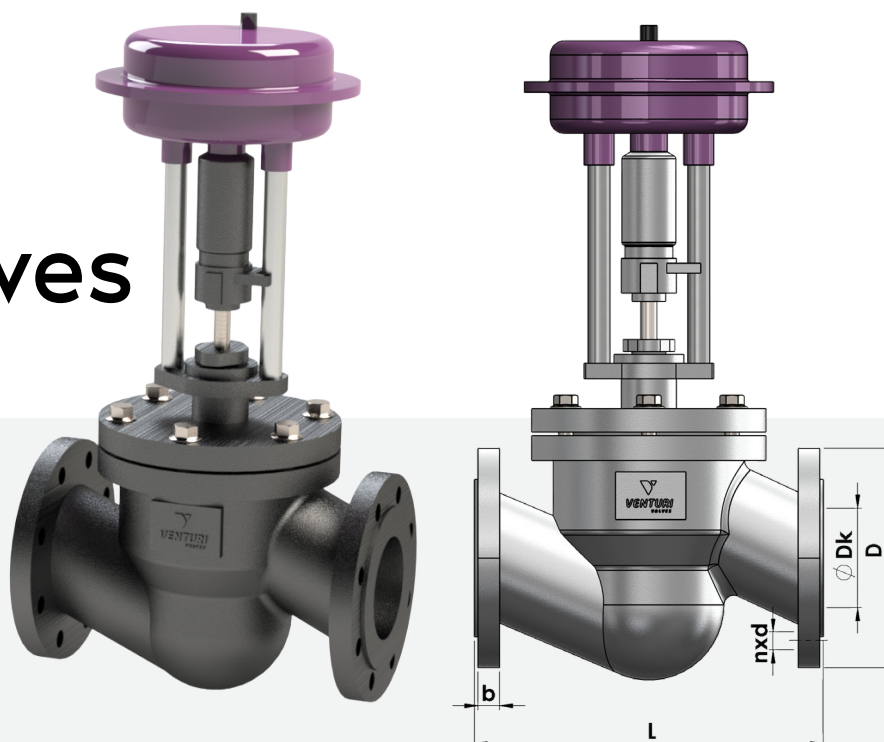
Dimensions CL1500

DN		15	20	25	32	40
[mm]	L	216	229	254	279	305
	Dn	120	130	150	160	180
	D	82,6	88,9	88,9	111,1	123,8
	b	29,3	32,4	32,4	35,6	38,8
	nxd	4x22,2	4x22,2	4x25,4	4x25,4	4x28,6

Globe Control Valves

DN50-DN600

PN10-PN16



List of Materials

Item	Part	Material Group acc. to EN 12516-1		
		Application		
		-10 °C / +80 °C	-10 °C / +130 °C	-10 °C / +170 °C
1	Body	EN-JL 1040 0.6025 / 0.7043 / 1.4021 / 1.4301		
2	Bonnet	0.6025 / 0.7043 / 1.4021 / 1.4301		
3	Wedge / Seat	Metal to Metal	EPDM/NBR	VITON / PTFE
4	Stem	1.4021 / 1.4122		1.4301
5	Stem Nut	1.4021 / 1.4122		1.4301
6	Stud Bolts	A193 B7/1.7225		A193 B8/1.4301
7	Nuts	A193 B7/1.7225		A193 B8/1.4301
8	Bonnet Gasket	reinforced pure graphite		
9	Steam Packing	graphite with corrosion inhibitor		
10	Handwheel	steel		

Standarts

Gate Valves according to EN 1171	PN 10 / PN 16
Face-to-face dimensions	EN 558-Serie 16
Flanged ends	EN 1092-2 / ISO7005-2
End-to-end dimensions	EN 12982

Dimensions PN10

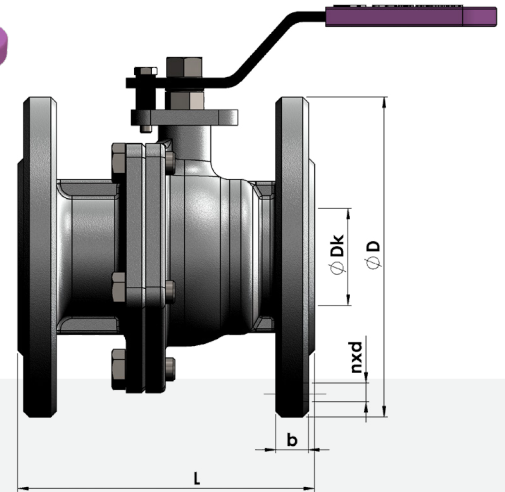
DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	40	40	50	50	50	60	60	70	70	96	100	106	110	110
	D	124	139	154	174	189	220	275	326	380	438	494	547	613	716
	Dk	283	308	333	378	423	474	593	685	792	900	978	1105	1215	1418
	nxd	4x16	4x16	4x16	4x16	4x16	4x20	4x20	8x20	8x20	10x20	10x24	14x24	14x24	14x27

Dimensions PN10

DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	40	40	50	50	50	60	60	70	70	96	100	106	110	110
	D	124	139	154	174	189	220	275	326	380	438	494	547	613	716
	Dk	283	308	333	378	423	474	593	685	792	900	978	1105	1215	1418
	nxd	4x16	4x16	4x16	4x16	4x16	4x20	4x20	8x20	8x20	10x20	10x24	14x24	14x24	14x27

2 Pcs Ball Valves

D655-DN200
PN16-PN40



List of Materials

Item	Part	Material Group acc. to EN 12516-1	
		Application	
		up to 180 °C	up to 180 °C
		1.0619	1.4408
1	Body	1.0619	
2	Ball	A182 F316 or A351Gr. CF8M	
3	Seat	TFM1600 / PTFE / RTFE	
4	Stem	316SS	
5	Stem Nut	A194-8	
6	Stud Bolts	A193 B7/1.7225	
7	Nuts	A194 2H/1.1191	
8	O-Ring	NBR/VITON	
9	Handle	Carbon Steel	

Standarts

Ball Valves according to EN 1983	PN 16 / PN 40
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 1759-1

Dimensions PN16

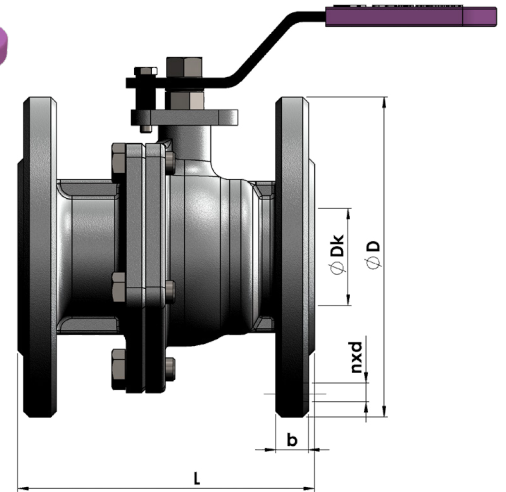
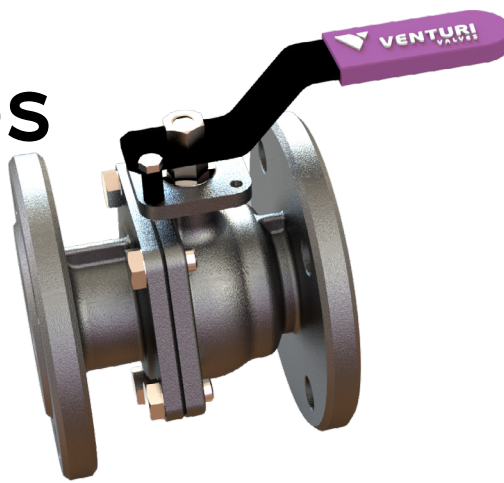
DN		65	80	100	125	150	200
[mm]	L	170	180	190	325	350	400
	D	145	160	180	210	240	295
	Dk	185	200	220	250	285	340
	nxd	4x18	8x18	8x18	8x18	8x22	12x22

Dimensions PN40

DN		15	20	25	32	40	50	65	80	100	125	150
[mm]	L	115	120	125	130	140	150	170	180	190	325	350
	D	65	75	80	100	110	125	145	160	190	220	250
	Dk	95	105	115	140	150	165	185	200	235	270	300
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26

2 Pcs Ball Valves

DN15-DN100
CL150-CL300



List of Materials

Item	Part	Material Group acc. to ASME B16.34	
		Application	
		up to 180 °C	up to 180 °C
		A216 WCB	A351 CF8M
1	Body	A216 WCB	
2	Ball	A182 F316 or A351Gr. CF8M	
3	Seat	TFM1600 / PTFE / RTFE	
4	Stem	316SS	
5	Stem Nut	A194-8	
6	Stud Bolts	A193 B7/1.7225	
7	Nuts	A194 2H/1.1191	
8	O-Ring	NBR/VITON	
9	Handle	Carbon Steel	

Standarts

Ball Valves according to ASME B16.34	CL150 / CL300
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5

Dimensions CL150

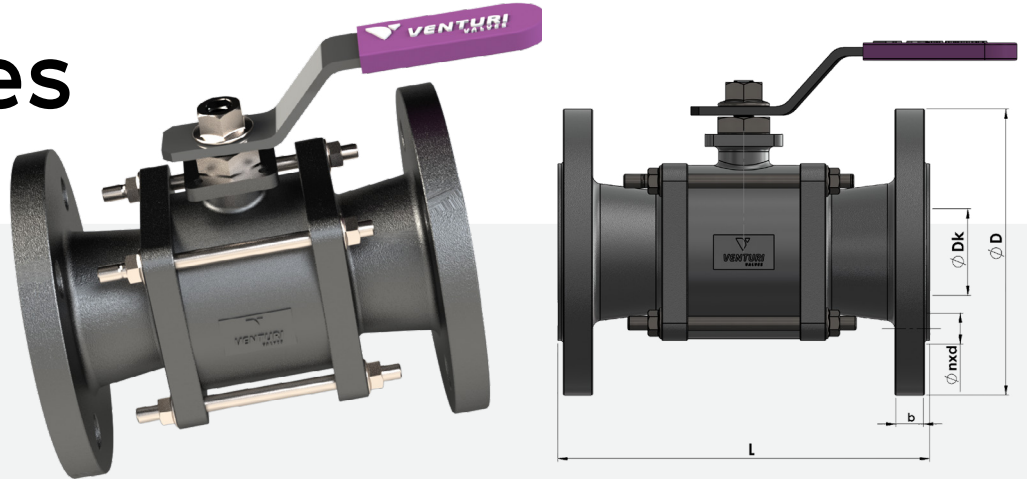
DN		15	20	25	40	50	65	80	100	150	200
[mm]	L	108	117	127	165	178	194	203	229	394	457
	D	60,3	69,9	79,4	98,4	120,7	139,7	152,5	190,5	241,3	298,5
	Dk	90	100	110	125	150	180	190	230	280	345
	nxd	4x16	4x16	4x16	4x16	4x19	4x19	4x19	8x19	8x22	8x22

Dimensions CL300

DN		15	20	25	40	50	80	100
[mm]	L	140	152	165	190	216	282	305
	D	66,7	82,6	88,9	114,3	127	168,3	200
	Dk	95	115	125	155	165	210	255
	nxd	4x16	4x19	4x19	4x22	8x19	8x22	8x22

3 Pcs Ball Valves

DN50-DN600
PN10-PN16



List of Materials

Item	Part	Material Group acc. to ASME B16.34					
		Application					
		up to 180 °C			up to 180 °C		
1	Body	A216 WCB			A351 CF8M		
2	Ball	A182 F316 or A351Gr. CF8M			A182 F316 or A351Gr. CF8M		
3	Seat	TFM1600 / PTFE / RTFE					
4	Stem	316SS					
5	Stem Nut	A194-8					
6	Stud Bolts	A193 B7/1.7225					
7	Nuts	A194 2H/1.1191					
8	O-Ring	NBR/VITON					
9	Handle	Carbon Steel					

Standarts

Ball Valves according to ASME B16.34	CL150 / CL600
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5

Dimensions CL150

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
[mm]	L	108	118	127	140	165	178	194	203	229	356	394	458	534	610
	D	35,1	42,9	50,8	63,5	73,2	91,9	104,6	127	157,2	185,7	215,9	269,7	323,9	381
	Dk	60	70	79,4	89	98,4	120,3	139,7	152,4	190,5	216	241,3	298,4	362	431
	b	11,2	12,7	14,3	15,9	17,5	19,1	22,4	23,9	23,9	23,9	25,4	28,6	30,2	31,8
	nxd	4x16	4x16	4x16	4x16	4x16	4x19	4x19	4x19	4x19	4x22	4x22	4x22	12x26	12x26

Dimensions CL300

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
[mm]	L	140	152	165	178	190	216	241	282	305	381	403	502	568	648
	D	35,1	42,9	50,8	63,5	73,2	91,9	104,6	127	157,2	185,7	215,9	269,7	323,9	381
	Dk	66,7	82,6	88,9	98,4	114,3	127	149,2	168,3	200	235	269,9	330,2	387,4	450,8
	b	14,3	15,9	17,5	19,1	20,7	22,3	25,4	28,6	31,8	34,9	36,6	41,3	47,7	50,8
	nxd	4x16	4x19	4x19	4x19	4x22	8x19	8x22	8x22	8x26	8x28	12x22	12x26	16x28	16x31

Dimensions CL600

DN		15	20	25	32	40	50	65	80	100	125	150	200
[mm]	L	165	190	216	229	241	292	330	356	432	508	559	660
	D	35,1	42,9	50,8	63,5	73,2	91,9	104,6	127	157,2	185,7	215,9	269,7
	Dk	66,7	82,6	88,9	98,4	114,3	127	149,2	168,3	215,9	266,7	292,1	349,2
	b	21,3	22,9	24,5	27,7	29,3	32,4	35,6	38,8	45,1	51,5	54,7	62,6
	nxd	4x16	4x19	4x19	4x19	4x22	8x19	8x22	8x22	8x26	8x28	12x28	12x31

3 Pcs Ball Valves

DN15-DN250

PN16-PN40



List of Materials

List of Materials		Material Group acc. to EN 12516-1					
Item	Part						
		Application					
		up to 180 °C			up to 180 °C		
1	Body	1.0619			1.4408		
2	Ball	A182 F316 or A351Gr. CF8M			A182 F316 or A351Gr. CF8M		
3	Seat	TFM1600 / PTFE / RTFE					
4	Stem	316SS					
5	Stem Nut	A194-8					
6	Stud Bolts	A193 B7/1.7225					
7	Nuts	A194 2H/1.1191					
8	O-Ring	NBR/VITON					
9	Handle	Carbon Steel					

Standarts

Ball Valves according to EN 1983	PN 16 / PN 40
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 1759-1

Dimensions PN16

DN		15	20	25	32	40	50	65	80	100	125	150	200	250
[mm]	L	130	150	160	180	200	230	290	310	350	400	450	550	650
	D	45	58	68	78	88	102	122	138	158	188	212	268	320
	Dk	65	75	85	100	110	125	145	160	180	210	240	295	355
	b	14	16	16	16	16	18	18	20	20	22	22	24	32
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	4x18	8x18	8x18	8x18	8x22	12x22	12x26

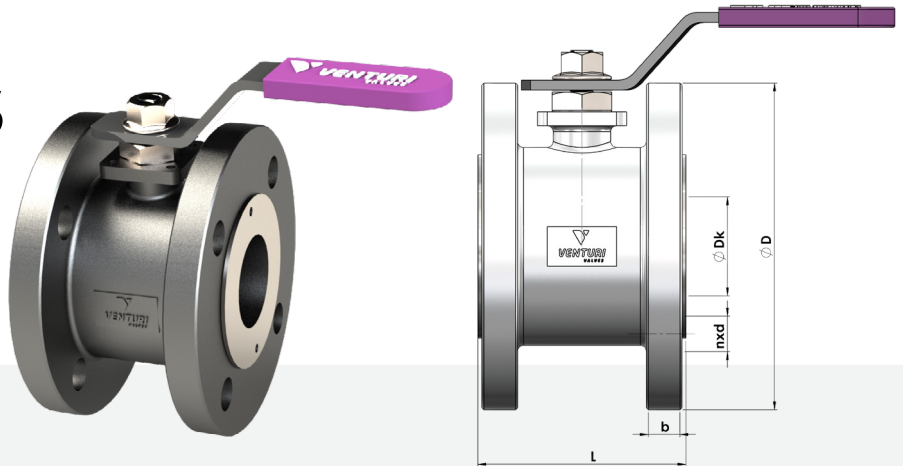
Dimensions PN40

DN		15	20	25	32	40	50	65	80	100	125	150	200	250
[mm]	L	130	150	160	180	200	230	290	310	350	400	450	550	650
	D	45	58	68	78	88	102	122	138	162	188	218	285	345
	Dk	65	75	85	100	110	125	145	160	190	220	250	320	385
	b	16	18	18	18	18	20	22	24	24	26	28	34	38
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	4x18	8x18	8x22	8x26	8x26	12x30	12x30

Monoblok Ball Valves

DN15-DN250

PN16-PN40



List of Materials

Item	Part	Material Group acc. to ASME B16.34	
		Application	
		-30 °C / +250 °C	
1	Body	1.0619	1.4408
2	Ball	A182 F316 or A351Gr. CF8M	A182 F316 or A351Gr. CF8M
3	Seat	TFM1600 / PTFE / RTFE	
4	Stem	316SS	
5	Stem Nut	A194-8	
6	Stud Bolts	A193 B7/1.7225	
7	Nuts	A194 2H/1.1191	
8	O-Ring	NBR/VITON	
9	Handle	Carbon Steel	

Standarts

Ball Valves according to EN 1983	PN 16 / PN 40
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 1759-1

Dimensions PN16

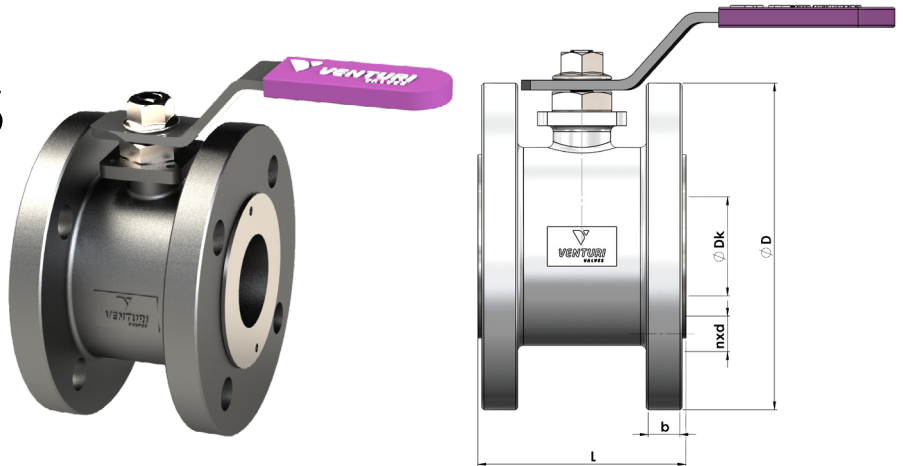
DN		15	20	25	32	40	50	65	80	100	125	150	200	250
[mm]	L	38	40	45	58	64	82	103	122	150	200	235	310	470
	Dk	65	75	85	100	110	125	145	160	180	210	240	295	355
	b	2	2	2	2	3	3	3	3	3	3	3	3	3
	nxd	4x12	4x12	4x12	4x16	4x16	4x16	4x16	8x16	8x16	8x16	8x20	12x20	12x24

Dimensions PN40

DN		15	20	25	32	40	50	65	80	100	125	150	200	250
[mm]	L	38	40	45	58	64	82	103	122	150	200	235	310	470
	Dk	65	75	85	100	110	125	145	160	190	220	250	320	385
	b	2	2	2	2	3	3	3	3	3	3	3	3	3
	nxd	4x12	4x12	4x12	4x16	4x16	4x16	8x16	8x16	8x20	8x20	8x22	12x27	12x27

Monoblok Ball Valves

DN15-DN250
CL150-CL300



List of Materials

Item	Part	Material Group acc. to ASME B16.34	
		Application	
		-30 °C / +250 °C	
1	Body	A216 WCB	A351 CF8M
2	Ball	A182 F316 or A351Gr. CF8M	A182 F316 or A351Gr. CF8M
3	Seat	TFM1600 / PTFE / RTFE	
4	Stem	316SS	
5	Stem Nut	A194-8	
6	Stud Bolts	A193 B7/1.7225	
7	Nuts	A194 2H/1.1191	
8	O-Ring	NBR/VITON	
9	Handle	Carbon Steel	

Standarts

Ball Valves according to ASME B16.34	CL150 / CL300
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5

Dimensions CL150

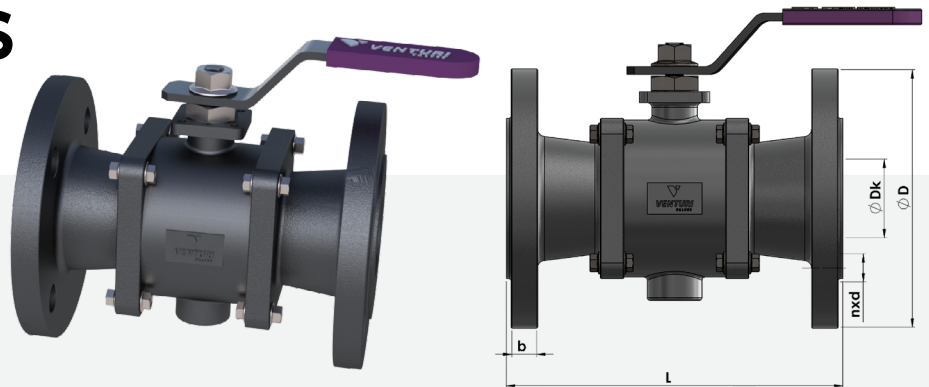
DN		15	20	25	32	40	50	65	80	100	125	150	200
[mm]	L	38	40	45	58	64	82	103	122	150	200	235	310
	Dk	60	70	74,9	89	98,4	126	139,7	152,4	190,5	216	241,3	298,4
	b	2	2	2	2	2	2	2	2	2	2	2	2
	nxd	4x12	4x12	4x12	4x12	4x12	4x16	4x16	4x16	8x16	8x20	8x20	12x20

Dimensions CL300

DN		15	20	25	32	40	50	65	80	100	125	150	200
[mm]	L	38	40	45	58	64	82	103	122	150	200	235	310
	Dk	66,7	82,6	88,9	98,4	114,3	127	149,2	168,3	200	235	269,9	330,2
	b	2	2	2	2	2	2	2	2	2	2	2	2
	nxd	4x12	4x16	4x16	4x16	4x20	8x16	8x20	8x20	8x20	8x20	12x20	12x22

Floating Ball Valves

DN15-DN300
CL150-CL600



List of Materials

Item	Part	Material Group acc. to ASME B16.34			
		Application			
		up to 180 °C		up to 180 °C	
1	Body	A216 WCB		A351 CF8M	
2	Ball	A182 F316 or A351Gr. CF8M		A182 F316 or A351Gr. CF8M	
3	Seat	TFM1600 / PTFE / RTFE			
4	Stem	316SS			
5	Stem Nut	A194-8			
6	Stud Bolts	A193 B7/1.7225			
7	Nuts	A194 2H/1.1191			
8	O-Ring	NBR/VITON			
9	Handle	Carbon Steel			

Standarts

Ball Valves according to ASME B16.34	CL150 / CL600
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5

Dimensions CL150

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
[mm]	L	108	118	127	140	165	178	194	203	229	356	394	458	534	610
	D	35,1	42,9	50,8	63,5	73,2	91,9	104,6	127	157,2	185,7	215,9	269,7	323,9	381
	Dk	60	70	79,4	89	98,4	120,3	139,7	152,4	190,5	216	241,3	298,4	362	431
	b	11,2	12,7	14,3	15,9	17,5	19,1	22,4	23,9	23,9	23,9	25,4	28,6	30,2	31,8
	nxd	4x16	4x16	4x16	4x16	4x16	4x19	4x19	4x19	8x19	8x22	8x22	8x22	12x26	12x26

Dimensions CL300

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
[mm]	L	140	152	165	178	190	216	241	282	305	381	403	502	568	648
	D	35,1	42,9	50,8	63,5	73,2	91,9	104,6	127	157,2	185,7	215,9	269,7	323,9	381
	Dk	66,7	82,6	88,9	98,4	114,3	127	149,2	168,3	200	235	269,9	330,2	387,4	450,8
	b	14,3	15,9	17,5	19,1	20,7	22,3	25,4	28,6	31,8	34,9	36,6	41,3	47,7	50,8
	nxd	4x16	4x19	4x19	4x19	4x22	8x19	8x22	8x22	8x26	8x28	12x22	12x26	16x28	16x31

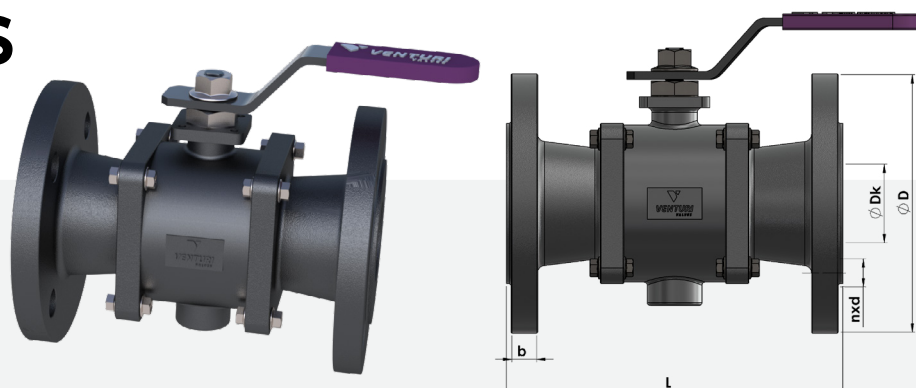
Dimensions CL600

DN		15	20	25	32	40	50	65	80	100	125	150	200
[mm]	L	165	190	216	229	241	292	330	356	432	508	559	660
	D	35,1	42,9	50,8	63,5	73,2	91,9	104,6	127	157,2	185,7	215,9	269,7
	Dk	66,7	82,6	88,9	98,4	114,3	127	149,2	168,3	215,9	266,7	292,1	349,2
	b	21,3	22,9	24,5	27,7	29,3	32,4	35,6	38,8	45,1	51,5	54,7	62,6
	nxd	4x16	4x19	4x19	4x19	4x22	8x19	8x22	8x22	8x26	8x28	12x28	12x31

Floating Ball Valves

DN15-DN250

PN16-PN40



List of Materials

List of Materials		Material Group acc. to EN 12516-1					
Item	Part						
		Application					
		up to 180 °C			up to 180 °C		
1	Body	1.0619			1.4408		
2	Ball	A182 F316 or A351Gr. CF8M			A182 F316 or A351Gr. CF8M		
3	Seat	TFM1600 / PTFE / RTFE					
4	Stem	316SS					
5	Stem Nut	A194-8					
6	Stud Bolts	A193 B7/1.7225					
7	Nuts	A194 2H/1.1191					
8	O-Ring	NBR/VITON					
9	Handle	Carbon Steel					

Standarts

Ball Valves according to EN 1983	PN 16 / PN 40
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 1759-1

Dimensions PN16

DN		15	20	25	32	40	50	65	80	100	125	150	200	250
[mm]	L	130	150	160	180	200	230	290	310	350	400	450	550	650
	D	45	58	68	78	88	102	122	138	158	188	212	268	320
	Dk	65	75	85	100	110	125	145	160	180	210	240	295	355
	b	14	16	16	16	16	18	18	20	20	22	22	24	32
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	4x18	8x18	8x18	8x18	8x22	12x22	12x26

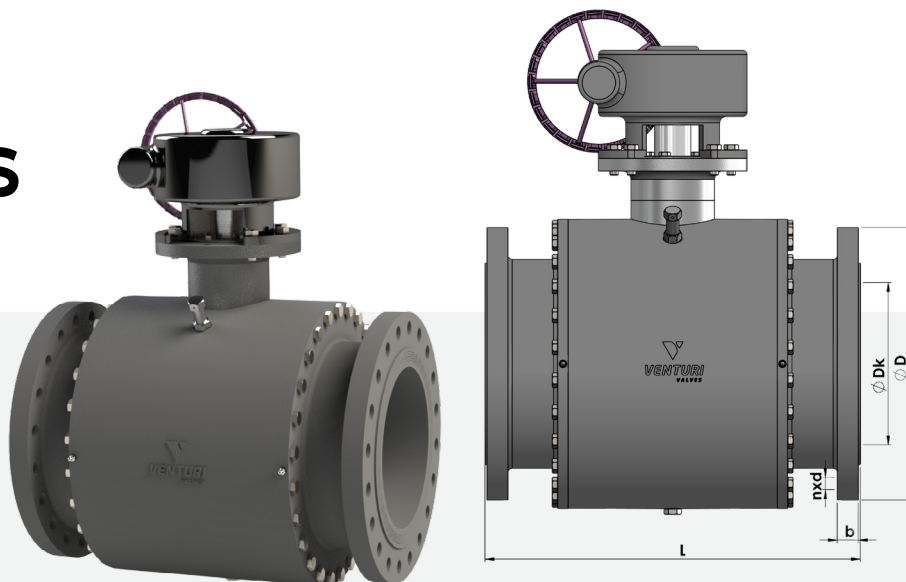
Dimensions PN40

DN		15	20	25	32	40	50	65	80	100	125	150	200	250
[mm]	L	130	150	160	180	200	230	290	310	350	400	450	550	650
	D	45	58	68	78	88	102	122	138	162	188	218	285	345
	Dk	65	75	85	100	110	125	145	160	190	220	250	320	385
	b	16	18	18	18	18	20	22	24	24	26	28	34	38
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	12x30

Trunnion Ball Valves

DN50-DN600

CL150-CL600



List of Materials

List of Materials		Material Group acc. to ASME B16.34			
Item	Part				
		Application			
		-30 °C / +250 °C			
1	Body	A216 WCB		A351 CF8M	
2	Ball	A182 F316 or A351Gr. CF8M		A182 F316 or A351Gr. CF8M	
3	Seat	TFM1600 / PTFE / RTFE			
4	Stem	316SS			
5	Stem Nut	A194-8			
6	Stud Bolts	A193 B7/1.7225			
7	Nuts	A194 2H/1.1191			
8	O-Ring	NBR/ViTON			
9	Handle	Carbon Steel			

Standarts

Ball Valves according to ASME B16.34	CL150 / CL600
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5

Dimensions CL150

DN		50	80	100	150	200	250	300	350	400	450	500	600
[mm]	L	178	203	229	394	457	533	610	686	762	864	914	1067
	Dk	120,7	152,4	190,5	241,3	298,5	362	431,8	476,3	539,8	577,9	635	749,3
	b	14,3	17,5	22,3	23,9	27	28,6	30,2	33,4	35	38,1	41,3	46,1
	nxd	4x19	4x19	8x19	8x22	8x22	12x25	12x25	12x28	16,28	16,31	20,31	20,34

Dimensions CL300

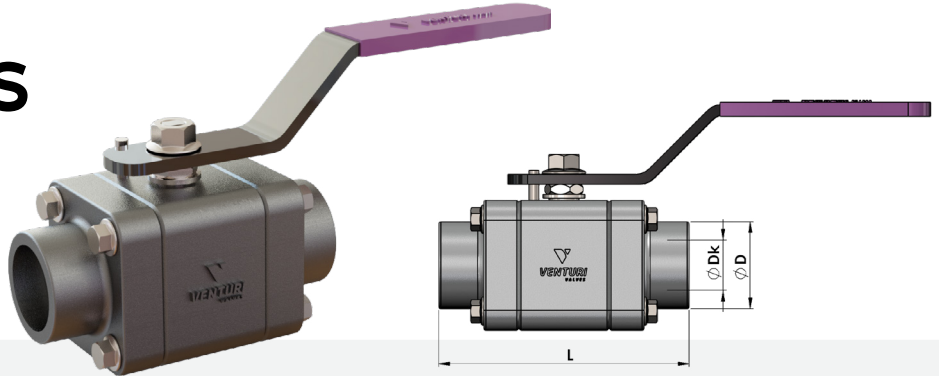
DN		50	80	100	150	200	250	300	350	400	450	500	600
[mm]	L	216	283	305	403	502	568	648	762	838	914	991	1143
	Dk	127	168,3	200	269,9	330,2	387,4	450,8	514,4	571,5	628,6	685,8	812,8
	b	20,7	27	30,2	35	39,7	46,1	49,3	52,4	55,6	58,8	62	68,3
	nxd	8x19	8x22	8x22	12x22	12x25	16x28	16x31	20x31	20x34	24x35	24x35	24x41

Dimensions CL600

DN		50	80	100	150	200	250	300	350	400	450	500	600
[mm]	L	292	356	432	539	660	787	838	889	991	1092	1194	1397
	Dk	120,7	168,3	215,9	292,1	349,2	431,8	489	527	603,2	654	723,9	838,2
	b	25,4	31,8	38,1	47,7	55,6	63,5	66,7	69,9	76,2	82,6	88,9	101,6
	nxd	8x19	8x22	8x25	12x28	12x32	16x35	20x35	20x38	20x41	20x44	24x44	20x50

Forged Ball Valves

DN15-DN50
CL800-CL1500



List of Materials

Item	Part	Material Group acc. to ASME B16.34	
		Application	
		-30 °C / +250 °C	
1	Body	A216 WCB	A351 CF8M
2	Ball	A182 F316 or A351Gr. CF8M	A182 F316 or A351Gr. CF8M
3	Seat	TFM1600 / PTFE / RTFE	
4	Stem	316SS	
5	Stem Nut	A194-8	
6	Stud Bolts	A193 B7/1.7225	
7	Nuts	A194 2H/1.1191	
8	O-Ring	NBR/VITON	
9	Handle	Carbon Steel	

Standarts

Ball Valves according to ASME B16.34	CL800 / CL1500
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5

Dimensions CL800

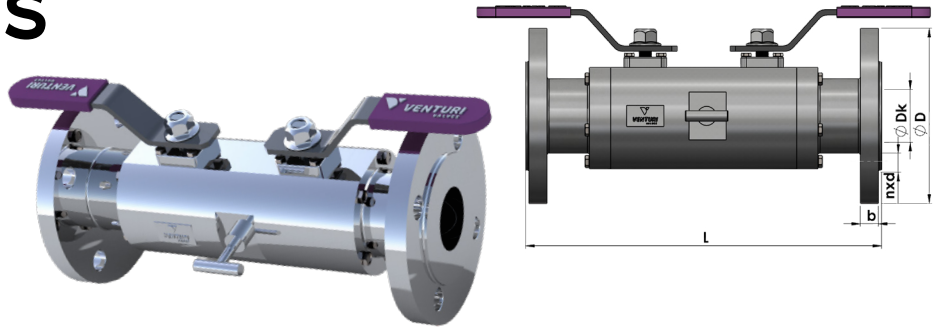
DN		15	20	25	40	50
[mm]	L	72	94	106	125,5	128
	Dk	15	20	25	40	50
	D	45	59	62	89	80

Dimensions CL1500

DN		15	20	25	40	50
[mm]	L	104	127	134	200	222
	Dk	15	20	25	40	50
	D	49	66	70	101,5	117,7

Double Block and Bleed Ball Valves

DN15-DN100
CL150-CL300



List of Materials

Item	Part	Material Group acc. to ASME B16.34	
		Application	
		-20 °C / +120 °C	
1	Body	A216 WCB	A351 CF8M
2	Ball	A182 F316 or A351Gr. CF8M	A182 F316 or A351Gr. CF8M
3	Seat	TFM1600 / PTFE / RTFE	
4	Stem	316SS	
5	Stem Nut	A194-8	
6	Stud Bolts	A193 B7/1.7225	
7	Nuts	A194 2H/1.1191	
8	O-Ring	NBR/VITON	
9	Handle	Carbon Steel	

Standarts

Ball Valves according to ASME B16.34	CL150 / CL300
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5

Dimensions CL150

DN		15	20	25	40	50	80	100
[mm]	L	196	214	229	305	316	356	428
	Dk	76	76	94	135	145/225	170/253	196/284
	D	150	155	155	180	187	203	230

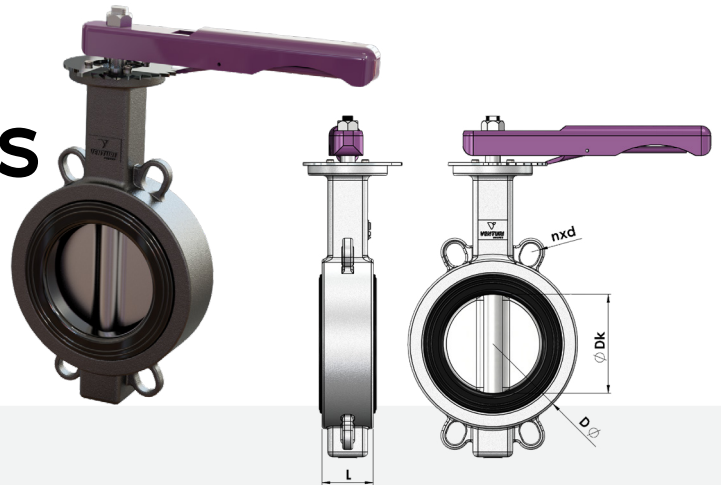
Dimensions CL150

DN		15	20	25	40	50	80	100
[mm]	L	240	245	275	310	352	440	505
	Dk	76	76	117	136/216	148/216	173/256	206/294
	D	150	157	163	180	187	203	230

Wafer Butterfly Valves

DN40-DN600

PN10-PN16



List of Materials

Item	Part	Material Group acc. to EN 12516-1	
		Application	
		up to 200 °C	up to 200 °C
1	Body	GG 25	GGG 40
2	Ball	GGG 40	1.4401
3	Seat	EPDM/ NBR / VITON / PTFE	
4	Stem	1.4021 - AISI 420	
5	Stem Nut	A194-8	
6	Stud Bolts	A193 B7/1.7225	
7	Nuts	A194 2H/1.1191	
8	O-Ring	EPDM / NBR	
9	Handle	Carbon Steel	

Standarts

Butterfly Valves according to EN 1983	PN 10 / PN 16
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 1759-1

Dimensions PN10

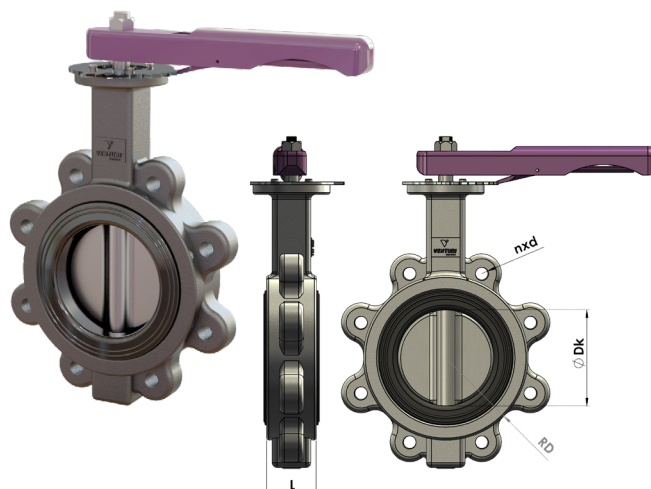
DN		40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154
	D	110	125	145	160	180	210	240	295	350	400	460	515	565	620	725
	Dk	30	30	30	30	30	30	30	30	30	30	53	55	55	76	103
	nxd	19x4	19x4	19x4	19x8	19x8	19x8	23x8	23x8	23x12	23x12	23x16	23x16	28x20	28x20	31x20

Dimensions PN16

DN		40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154
	D	110	125	145	160	180	210	240	295	355	410	470	525	585	650	770
	Dk	30	30	30	30	30	30	30	30	30	30	53	55	55	76	103
	nxd	19x4	19x4	19x4	19x8	19x8	19x8	23x8	23x12	28x12	28x12	28x16	31x16	31x20	34x20	37x20

Lug Butterfly Valves

DN40-DN400
PN16



List of Materials

List of Materials					
Item	Part	Material Group acc. to EN 12516-1			
		Application			
		up to 200 °C		up to 200 °C	
1	Body	GG 25		GGG 40	
2	Ball	GGG 40		1.4401	
3	Seat	EPDM/ NBR / VITON / PTFE			
4	Stem	1.4021 - AISI 420			
5	Stem Nut	A194-8			
6	Stud Bolts	A193 B7/1.7225			
7	Nuts	A194 2H/1.1191			
8	O-Ring	EPDM / NBR			
9	Handle	Carbon Steel			

Standarts

Butterfly Valves according to EN 1983	PN 10 / PN 16
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 1759-1

Dimensions PN10

DN		40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154
	D	110	125	145	160	180	210	240	295	355	410	470	525	565	620	725
	Dk	30	30	30	30	30	30	30	30	30	30	45	45	51	64	70
	nxd	16x4	16x4	16x4	16x8	16x8	16x8	20x8	20x8	20x12	20x12	20x16	24x16	24x20	24x20	27x20

Dimensions PN16

DN		40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154
	D	110	125	145	160	180	210	240	295	355	410	470	525	565	620	725
	Dk	30	30	30	30	30	30	30	30	30	30	45	45	51	64	70
	nxd	16x4	16x4	16x4	16x8	16x8	16x8	20x8	20x12	24x12	24x12	24x16	27x16	27x20	30x20	33x20

Double Flanged Butterfly Valves

DN50-DN600

PN10-PN16



List of Materials

Item	Part	Material Group acc. to EN 12516-1	
		Application	
		up to 200 °C	up to 200 °C
1	Body	GG 25	GGG 40
2	Ball	GGG 40	1.4401
3	Seat	EPDM/ NBR / VITON / PTFE	
4	Stem	1.4021 - AISI 420	
5	Stem Nut	A194-8	
6	Stud Bolts	A193 B7/1.7225	
7	Nuts	A194 2H/1.1191	
8	O-Ring	EPDM / NBR	
9	Handle	Carbon Steel	

Standarts

Butterfly Valves according to EN 1983	PN 10 / PN 16
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 1759-1

Dimensions PN10

DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	108	112	114	127	140	140	152	165	178	190	216	222	229	267
	Dk	125	145	160	180	210	240	295	350	400	460	515	565	620	725
	nxd	4x18	8x18	8x18	8x18	8x18	8x22	8x22	12x22	12x22	16x22	16x26	20x26	20x26	20x30

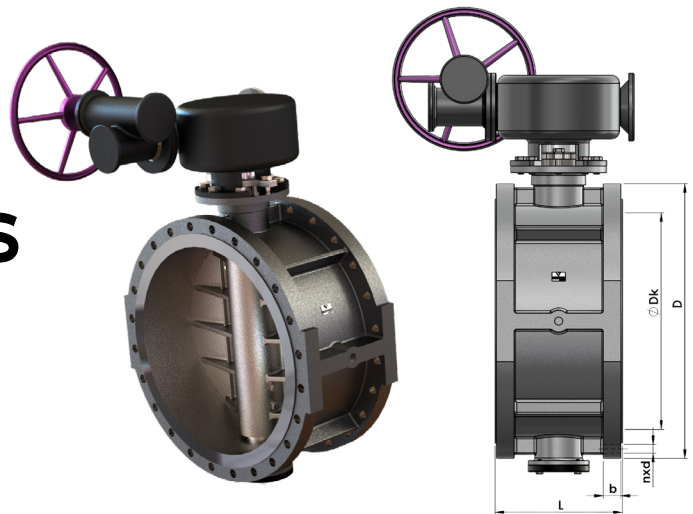
Dimensions PN16

DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	108	112	114	127	140	140	152	165	178	190	216	222	229	267
	Dk	125	145	160	180	210	240	295	355	410	470	525	585	650	770
	nxd	4x18	8x18	8x18	8x18	8x18	8x22	8x22	12x22	12x22	16x22	16x26	20x26	20x26	20x30

Double Eccentric Butterfly Valves

DN100-DN600

PN10-PN16



List of Materials

Item	Part	Material Group acc. to EN 12516-1	
		Application	
		up to 200 °C	up to 200 °C
1	Body	GG 25	GGG 40
2	Ball	GGG 40	1.4401
3	Seat	EPDM/ NBR / VITON	
4	Stem	1.4021 - AISI 420	
5	Stem Nut	A194-8	
6	Stud Bolts	A193 B7/1.7225	
7	Nuts	A194 2H/1.1191	
8	O-Ring	EPDM / NBR	
9	Handle	Carbon Steel	

Standarts

Butterfly Valves according to EN 1983	PN 10 / PN 16
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 1759-1

Dimensions PN10

DN		100	125	150	200	250	300	350	400	450	500	600
[mm]	L	127	140	140	152	165	178	190	216	222	229	267
	Dk	180	210	240	295	350	400	460	515	565	620	725
	nxd	8x18	8x18	8x22	8x22	12x22	12x22	16x22	16x26	20x26	20x26	20x30

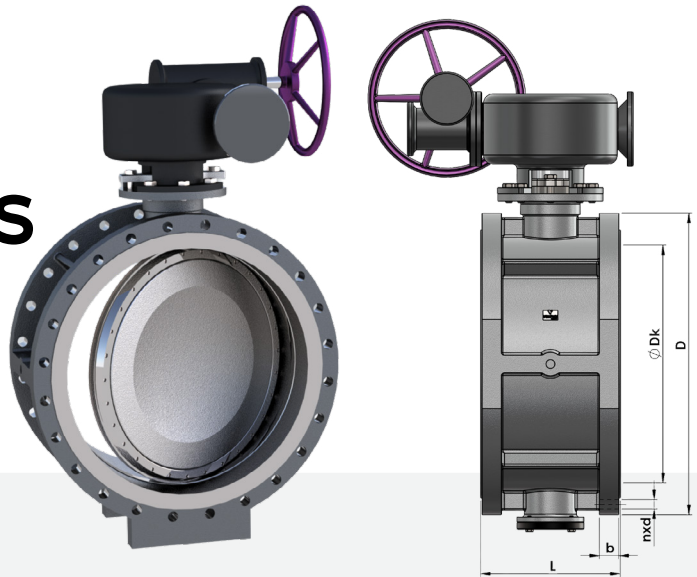
Dimensions PN16

DN		100	125	150	200	250	300	350	400	450	500	600
[mm]	L	127	140	140	152	165	178	190	216	222	229	267
	Dk	180	210	240	295	355	410	470	525	585	650	720
	nxd	8x18	8x18	8x22	12x22	12x26	12x26	16x26	16x30	20x30	20x33	20x36

Triple Eccentric Butterfly Valves

DN100-DN600

PN10-PN16



List of Materials

Item	Part	Material Group acc. to EN 12516-1	
		Application	
		up to 200 °C	up to 200 °C
1	Body	GG 25	GGG 40
2	Ball	GGG 40	1.4401
3	Seat	EPDM/ NBR / VITON	
4	Stem	1.4021 - AISI 420	
5	Stem Nut	A194-8	
6	Stud Bolts	A193 B7/1.7225	
7	Nuts	A194 2H/1.1191	
8	O-Ring	EPDM / NBR	
9	Handle	Carbon Steel	

Standarts

Butterfly Valves according to EN 1983	PN 10 / PN 16
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 1759-1

Dimensions PN10

DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	FTF/ETE	108	112	114	127	140	140	152	165	178	190	216	222	229	267
	K	125	145	160	180	210	240	295	350	400	460	515	565	620	725
	lxn	4x18	8x18	8x18	8x18	8x18	8x22	8x22	12x22	12x22	16x22	16x26	20x26	20x26	20x30

Dimensions PN16

DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	FTF/ETE	108	112	114	127	140	140	152	165	178	190	216	222	229	267
	K	125	145	160	180	210	240	295	355	410	470	525	585	650	770
	lxn	4x18	8x18	8x18	8x18	8x18	8x22	8x22	12x22	12x22	16x22	16x26	20x26	20x26	20x30

High Performance Butterfly Valves

DN50-DN400
CL150-CL300



List of Materials

Item	Part	Material Group acc. to ASME B16.34	
		Application	
		up to 400 °C	up to 400 °C
1	Body	A216 WCB	A351 CF8M
2	Disc	A182 F316 or A351Gr. CF8M	A182 F316 or A351Gr. CF8M
3	Seat	A182 F316	
4	Stem	1.4021 - AISI 420	
5	Stem Nut	A194-8	
6	Stud Bolts	A193 B7/1.7225	
7	Nuts	A194 2H/1.1191	
8	O-Ring	EPDM / NBR	
9	Handle	Carbon Steel	

Standarts

Butterfly Valves according to API 609	CL150 / CL300
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5

Dimensions CL150

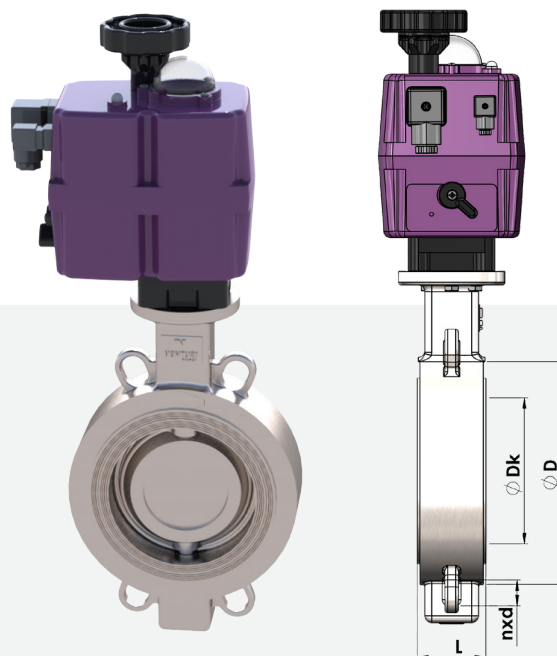
DN		50	65	80	100	125	150	200	250	300	350	400
[mm]	L	43	46	49	56	64	70	71	76	83	92	102
	Dk	120,7	139,7	152,4	190,5	190,5	241,3	298,5	362	431,8	476,3	539,8
	nxd	4x19	4x19	4x19	8x19	8x22	8x22	8x22	12x25	12x25	12x29	12x29

Dimensions CL300

DN		50	65	80	100	125	150	200	250	300	350	400
[mm]	L	43	46	49	56	64	70	71	76	83	92	102
	Dk	120,7	149	168,5	200	235	270	330	387,5	451	451	451
	nxd	8x19	8x22	8x22	8x22	8x22	12x22	12x25	16x29	16x32	20x32	20x35

High Performance Butterfly Control Valves

DN50-DN400
CL150-CL300



List of Materials

List of Materials		Material Group acc. to ASME B16.34					
Item	Part						
		Application					
		up to 400 °C			up to 400 °C		
		A216 WCB			A351 CF8M		
1	Body	A182 F316 or A351Gr. CF8M			A182 F316 or A351Gr. CF8M		
2	Disc	A182 F316			A182 F316 or A351Gr. CF8M		
3	Seat	1.4021 - AISI 420					
4	Stem	A194-8					
5	Stem Nut	A193 B7/1.7225					
6	Stud Bolts	A194 2H/1.1191					
7	Nuts	EPDM / NBR					
8	O-Ring	Carbon Steel					
9	Handle						

Standarts

Butterfly Valves according to API 609	CL150 / CL300
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5

Dimensions CL150

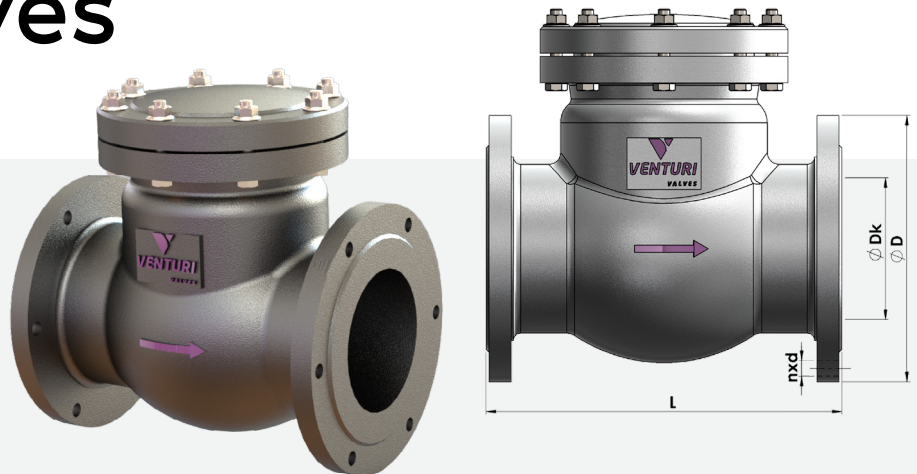
DN		50	65	80	100	125	150	200	250	300	350	400
[mm]	L	43	46	49	56	64	70	71	76	83	92	102
	Dk	120,7	139,7	152,4	190,5	215,9	241,3	298,5	362	431,8	476,3	539,8
	nxd	4x19	4x19	4x19	8x19	8x22	8x22	8x22	12x25	12x25	12x29	12x29

Dimensions CL300

DN		50	65	80	100	125	150	200	250	300	350	400
[mm]	L	43	46	49	56	64	70	71	76	83	92	102
	Dk	120,7	149	168,5	200	235	270	330	387,5	451	451	451
	nxd	8x19	8x22	8x22	8x22	8x22	12x22	12x25	16x29	16x32	20x32	20x35

Swing Check Valves

DN50-DN600
CL150-CL1500



List of Materials

List of Materials		Material Group acc. to ASME B16.34					
Item	Part						
		Application					
		-29°C÷425°C	-46°C÷345°C	-29°C÷550°C	-29°C÷550°C	-196°C÷600°C	-196°C÷600°C
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
2	Cover	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
3	Disc	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
4	Body Welded on with	Cr13 or HF				Basic Material or Stellite	
5	Wedge Welded on with	Cr13 or HF				Basic Material or Stellite	
6	Stud Bolts	A193 B7	A193 B116 / 1.7709			A193 B8 / A193 B8M	
7	Nuts	A194 2H	A194 4 / 1.7709			A194 B8 / A194 B8M	
8	Cover Gasket	Spiral - Wound / Reinforced pure graphite					

Standarts

Check Valves according to API594	Class 150 ÷ Class 1500
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5
Welding ends	ASME B16.25

Dimensions CL150

DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	203	216	241	292	330	356	495	622	698	787	864	978	978	1295
	D	150	180	190	230	255	280	345	405	485	535	595	635	700	815
	Dk	120,7	139,7	152,4	190,5	215,9	241,3	298,5	362	431,8	476,3	539,8	577,9	635	749,3
	b	19,5	22,7	24,3	24,3	24,3	25,9	29	30,6	32,2	35,4	37	40,1	43,3	48,1
	nxd	4x19,0	4x19,0	4x19,0	8x19,0	8x22,2	8x22,2	8x22,2	12x25,4	12x25,4	12x28,6	16x28,6	16x31,7	20x31,7	20x34,9

Dimensions CL300

DN		50	65	80	100	125	150	200	250	300	350	400	450	500
[mm]	L	267	292	318	356	400	444	533	622	711	838	864	978	1016
	D	165	190	210	255	280	320	380	445	520	585	650	710	775
	Dk	127	149,2	168,3	200	235	269,9	330,2	387,4	450,8	514,4	571,5	628,6	685,8
	b	22,7	25,9	29	32,3	35,4	37	41,7	48,1	51,3	54,4	57,6	60,8	64
	nxd	8x19,0	8x22,2	8x22,2	8x22,2	8x22,2	12x22,2	12x25,4	16x28,6	16x31,7	20x31,7	20x34,9	24x34,9	24x34,9

Dimensions CL600

DN		50	65	80	100	125	150	200	250	300	350	400
[mm]	L	292	330	356	432	508	559	660	787	838	889	991
	D	165	190	210	275	330	355	420	510	560	605	685
	Dk	127	149,2	168,3	215,9	266,7	292,1	349,2	431,8	489	527	603,2
	b	32,4	35,6	38,8	45,1	51,5	54,7	62,6	70,5	73,7	76,9	83,2
	nxd	8x19,0	8x22,2	8x22,2	8x25,4	8x28,6	12x28,6	12x31,7	16x34,9	20x34,9	20x38,1	20x41,3

Dimensions CL900

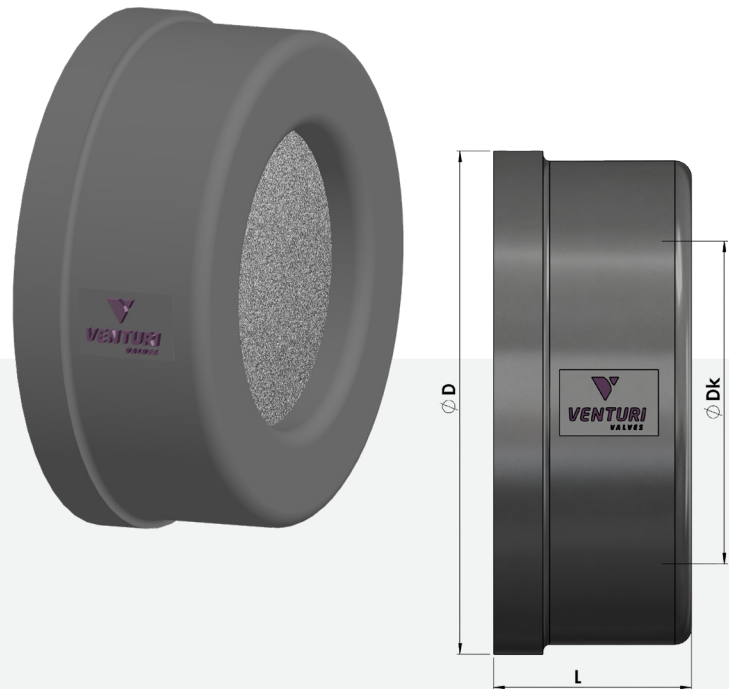
DN		50	65	80	100	125	150	200	250	300
[mm]	L	368	419	381	457	559	610	737	838	965
	D	215	245	240	290	350	380	470	545	610
	Dk	165,1	190,5	190,5	325	279,5	317,5	393,7	469,9	533,4
	b	45,1	48,3	45,1	51,5	57,8	62,6	70,5	76,9	86,4
	nxd	8x25,4	8x28,6	8x25,4	8x31,7	8x34,9	12x31,7	12x38,1	16x38,1	20x38,1

Dimensions CL1500

DN		50	65	80	100
[mm]	L	368	419	470	546
	D	215	245	265	310
	Dk	165,1	190,5	103,2	241,3
	b	45,1	48,3	54,7	61
	nxd	8x25,4	8x28,6	8x31,7	8x34,9

Disco Check Valves

DN15-DN200
PN16-PN40



List of Materials

Item	Part	Material Group acc. to EN 12516-1					
		Application					
		up to 400 °C	up to 550 °C	up to 550 °C	up to 600 °C	-196°C - 600°C	-196°C - 600°C
1	Body	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
2	Cover	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
3	Disc	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
4	Body Welded on with	Cr13 or HF				Basic Material or Stellite	
5	Wedge Welded on with	Cr13 or HF				Basic Material or Stellite	
6	Stud Bolts	A193 B7	A193 B116 / 1.7709			A193 B8 / A193 B8M	
7	Nuts	A194 2H	A194 4 / 1.7709			A194 B8 / A194 B8M	
8	Cover Gasket	Spiral - Wound / Reinforced pure graphite					

Standarts

Check Valves according to EN558-1	PN16 - PN40
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 558

Dimensions PN16

DN		15	20	25	32	40	50	65	80	100	125	150	200
[mm]	L	16	19	22	28	31,5	40	46	50	60	90	106	140
	D	40	47	56	76	82	95	115	132	152	184	209	264
	Dk	15	20	25	32	40	50	65	80	100	125	150	200

Dimensions PN40

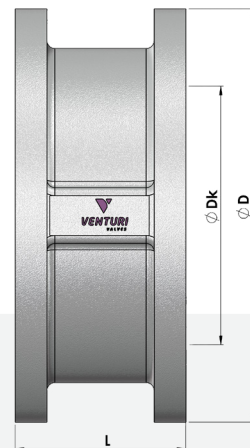
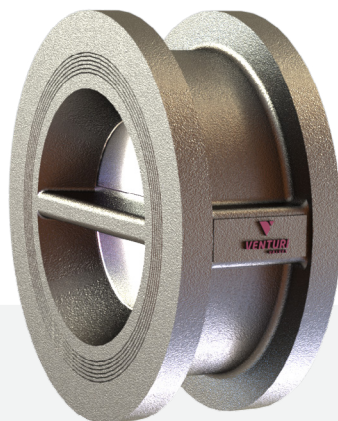
DN		15	20	25	32	40	50	65	80	100
[mm]	L	16	19	22	28	31,5	40	46	50	60
	D	40	47	56	76	82	95	115	132	152
	Dk	15	20	25	32	40	50	65	80	100

Dual Plate Check Valves

DN40-DN400

PN10-PN16

CL150-CL300



List of Materials

List of Materials		Material Group acc. to ASME B16.34					
Item	Part						
		Application					
		-29°C÷425°C	-46°C÷345°C	-29°C÷550°C	-29°C÷550°C	-196°C÷600°C	-196°C÷600°C
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
2	Cover	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
3	Disc	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
4	Body Welded on with	Cr13 or HF				Basic Material or Stellite	
5	Wedge Welded on with	Cr13 or HF				Basic Material or Stellite	
6	Stud Bolts	A193 B7	A193 B116 / 1.7709			A193 B8 / A193 B8M	
7	Nuts	A194 2H	A194 4 / 1.7709			A194 B8 / A194 B8M	
8	Cover Gasket	Spiral - Wound / Reinforced pure graphite					

Standarts

Check Valves according to API594	Class 150 ÷ Class 1500
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5
Welding ends	ASME B16.25

Dimensions PN16

DN		40	50	65	80	100	125	150	200	250	300	350	400
[mm]	L	33	43	46	64	64	70	76	89	114	114	127	140
	D	92	107	127	142	167	192	218	273	328	378	437	488
	Dk	40	50	65	80	100	125	150	200	250	300	350	400

Dimensions CL150

DN		50	65	80	100	125	150	200	250	300	350	400
[mm]	L	60	67	73	73	86	98	127	146	181	184	191
	D	103	122	135	173	195	220	277	337	407	448	512
	Dk	50	65	80	100	125	150	200	250	300	350	400

Dimensions CL300

DN		50	65	80	100	125	150	200	250	300	350	400
[mm]	L	60	67	73	73	86	98	127	146	181	184	191
	D	110	128	147	179	214	249	305	359	420	483	537
	Dk	50	65	80	100	125	150	200	250	300	350	400

Disco Check Valves

DN25-DN400

PN10-PN25



List of Materials

Item	Part	Material Group acc. to EN 12516-1					
		Application					
		up to 400 °C	up to 550 °C	up to 550 °C	up to 600 °C	-196°C - 600°C	-196°C - 600°C
1	Body	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
2	Cover	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
3	Disc	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
4	Body Welded on with	Cr13 or HF				Basic Material or Stellite	
5	Wedge Welded on with	Cr13 or HF				Basic Material or Stellite	
6	Stud Bolts	A193 B7	A193 B116 / 1.7709			A193 B8 / A193 B8M	
7	Nuts	A194 2H	A194 4 / 1.7709			A194 B8 / A194 B8M	
8	Cover Gasket	Spiral - Wound / Reinforced pure graphite					

Standarts

Check Valves according to EN558-1	PN10 - PN25
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 558

Dimensions PN10

DN		25	32	40	50	65	80	100	125	150	200	250	300	350	400
[mm]	L	14	14	14	14	14	14	18	18	20	22	26	32	38	44
	D	74	84	94	109	129	144	164	195	220	275	330	380	438	490
	Dk	25	32	40	50	65	80	100	125	150	200	250	300	350	400

Dimensions PN16

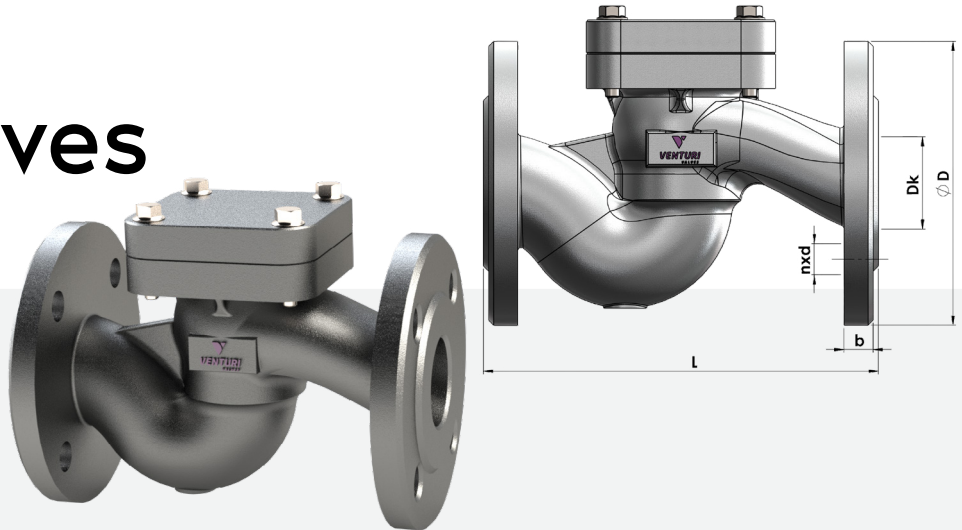
DN		25	32	40	50	65	80	100	125	150	200	250	300	350	400
[mm]	L	14	14	14	14	14	14	18	18	20	22	26	32	38	44
	D	74	84	94	109	129	144	164	195	220	275	330	385	444	495
	Dk	25	32	40	50	65	80	100	125	150	200	250	300	350	400

Dimensions PN25

DN		25	32	40	50	65	80	100	125	150	200	250	300	350	400
[mm]	L	14	14	14	14	14	14	18	18	20	22	26	32	38	44
	D	74	84	94	109	129	144	170	198	228	285	343	403	460	517
	Dk	25	32	40	50	65	80	100	125	150	200	250	300	350	400

Lift Check Valves

DN15-DN350
PN16-PN40



List of Materials

Item	Part	Material Group acc. to EN 12516-1					
		Application					
		up to 400 °C	up to 550 °C	up to 550 °C	up to 600 °C	-196°C - 600°C	-196°C - 600°C
1	Body	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
2	Cover	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
3	Disc	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
4	Body Welded on with	Cr13 or HF				Basic Material or Stellite	
5	Wedge Welded on with	Cr13 or HF				Basic Material or Stellite	
6	Stud Bolts	A193 B7	A193 B116 / 1.7709			A193 B8 / A193 B8M	
7	Nuts	A194 2H	A194 4 / 1.7709			A194 B8 / A194 B8M	
8	Spring	45CrMoV6-7				AISI 316	
9	Cover Gasket	Spiral - Wound / Reinforced pure graphite					

Standarts

Check Valves according to EN 16767	PN16 - PN40	PN63-PN160
Face-to-face dimensions	EN 558, Serie 1	EN 558, Serie 2
Flanged ends	EN 1092 - 1	
Face-to-face dimensions	EN 12982, Serie 64	EN 12982, Serie 65
Flanged ends	EN 12627	

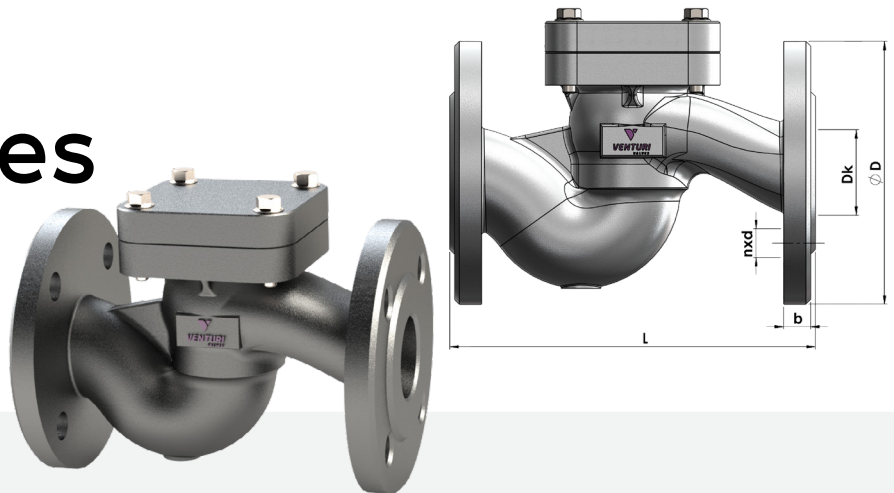
Dimensions PN16																
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
[mm]	L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
	D	95	105	115	140	150	165	185	200	220	250	285	340	405	460	520
	Dk	65	75	85	100	110	125	145	160	180	210	240	295	355	410	470
	b	16	18	18	18	18	18	18	20	20	22	22	24	26	28	30
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	4x18	8x18	8x18	8x18	8x22	12x22	12x26	12x26	16x26

Dimensions PN25																
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
[mm]	L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
	D	95	105	115	140	150	165	185	200	235	270	300	360	425	485	555
	Dk	65	75	85	100	110	125	145	160	190	220	250	310	370	430	490
	b	16	18	18	18	18	20	22	24	24	26	28	30	32	34	38
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x26	12x30	16x30	16x33

Dimensions PN40																
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
[mm]	L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
	D	95	105	115	140	150	165	185	200	235	270	300	375	450	515	580
	Dk	65	75	85	100	110	125	145	160	190	220	250	320	385	450	510
	b	16	18	18	18	18	20	22	24	24	26	28	34	38	42	46
	nxd	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	12x33	16x33	16x36

Lift Check Valves

DN15-DN350
CL150-CL300



List of Materials

Item	Part	Material Group acc. to ASME B16.34					
		Application					
		-29°C÷425°C	-46°C÷345°C	-29°C÷550°C	-29°C÷550°C	-196°C÷600°C	-196°C÷600°C
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
2	Cover	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
3	Disc	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
4	Body Welded on with	Cr13 or HF				Basic Material or Stellite	
5	Wedge Welded on with	Cr13 or HF				Basic Material or Stellite	
6	Stud Bolts	A193 B7	A193 B116 / 1.7709			A193 B8 / A193 B8M	
7	Nuts	A194 2H	A194 4 / 1.7709			A194 B8 / A194 B8M	
8	Spring	45CrMoV6-7				AISI 316	
9	Cover Gasket	Spiral - Wound / Reinforced pure graphite					

Standarts

Check Valves according to API594	Class 150 ÷ Class 300
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5
Welding ends	ASME B16.25

Dimensions CL150

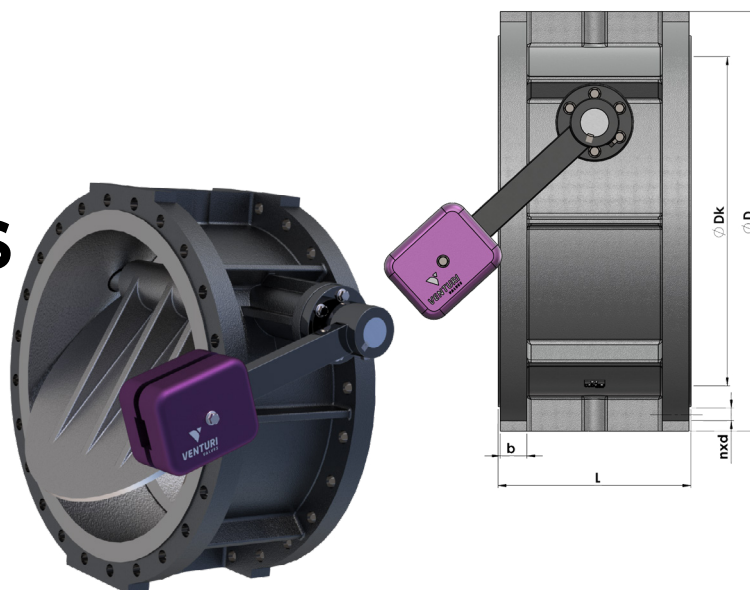
DN		50	65	80	100	125	150	200	250	300
[mm]	L	203	216	241	292	356	406	495	622	698
	D	150	180	190	230	255	280	345	405	485
	Dk	120,7	139,7	152,4	190,5	215,9	241,3	298,5	362	431,8
	b	4x19	4x19	4x19	8x19	8x22	8x22	8x22	12x25,5	12x25,5
	nxd	19,5	23	24,5	24,5	24,5	26	29	31	32,5

Dimensions CL300

DN		50	65	80	100	125	150	200	250	300
[mm]	L	203	216	241	292	356	406	495	622	698
	D	165	190	210	255	280	320	380	445	520
	Dk	127	149,2	168,3	200	235	269,9	330,2	387,4	450,8
	b	8x19	8x22	8x22	8x22	8x22	12x22	12x25,5	16x28,5	16x32
	nxd	23	26	29	32,5	35,5	37	42	48,5	51,5

Tilting Check Valves

DN100-DN1000
PN16-PN25



List of Materials

List of materials							
Item	Part	Material Group acc. to EN 12516-1					
		Application					
		up to 200 °C	up to 200 °C	up to 200 °C	up to 200 °C	up to 200 °C	up to 200 °C
1	Body	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
2	Cover	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
3	Disc	1.0619	1.5419	1.7357	1.7379	1.4308	1.4408
4	Body Welded on with	Cr13 or HF				Basic Material or Stellite	
5	Wedge Welded on with	Cr13 or HF				Basic Material or Stellite	
6	Stud Bolts	A193 B7	A193 B116 / 1.7709			A193 B8 / A193 B8M	
7	Nuts	A194 2H	A194 4 / 1.7709			A194 B8 / A194 B8M	
8	Cover Gasket	Spiral - Wound / Reinforced pure graphite					

Standarts

Check Valves according to EN558-1	PN16 - PN25
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 558

Dimensions PN16

Dimensions (mm)																
DN		100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
[mm]	L	190	200	210	230	250	270	290	310	330	350	390	430	470	510	550
	D	220	250	285	340	405	460	520	540	680	715	840	910	1025	1125	1255
	K	180	210	240	295	355	410	470	525	585	650	770	840	950	1050	1170
	b	19	19	19	20	22	24,5	26,5	28	30	31,5	36	39,5	43	46,5	50
	nxd	19x8	19x8	23x8	23x12	28x12	28x12	28x16	31x16	31x20	34x20	37x20	37x20	41x24	41x28	44x28

Dimensions PN25

Dimensions in mm

DN		100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
[mm]	L	190	200	210	230	250	270	290	310	330	350	390	430	470	510	550
	D	235	270	300	360	425	485	555	620	670	730	845	960	1085	1185	1320
	K	190	220	250	310	370	430	490	550	600	660	770	875	990	1090	1210
	b	19	19	20	22	24,5	27,5	30	32	34,5	36,5	42	46,5	51	55,5	60
	nxd	23x8	28x8	28x8	28x12	31x12	31x16	37x16	37x16	37x20	37x20	41x20	44x24	50x24	50x28	57x28

Forged Check Valves

DN15-DN50
CL150-CL1500



List of Materials

List of materials											
Item	Part	Material Group acc. to ASME B16.34									
		Application									
		-46°C/+425°C	-46°C/+425°C	-29°C/+595°C	-29°C/+595°C	-29°C/+600°C	-29°C/+600°C	-196°C/+550°C	-196°C/+550°C	-196°C/+540°C	-196°C/+540°C
1	Body	A105	A350 LF2	A182 F12	A182 F22	A182 F5	A182 F91	A182 F304	A182 F316	A182 F321	A182 F347
2	Cover	A105	A350 LF2	A182 F12	A182 F22	A182 F5	A182 F91	A182 F304	A182 F316	A182 F321	A182 F347
3	Disc	SS420 / SS431 (or Stellite overlay)						SS304 / SS316 (or Stellite overlay)			
4	Seat	SS420 / SS431 (or Stellite overlay)						SS304 / SS316 (or Stellite overlay)			
5	Spring	45CrMoV6-7						AISI 316			
6	Stud Bolts	A193 B7		A193 B16 / 1.7709				A193 B8 / A193 B8M			
7	Nuts	A193 B7		A193 B16 / 1.7709				A194 8 / A194 8M			
8	Cover Gasket	spiral - wound									

Standarts

Check Valves according to ASME B16.34	CL150 - CL1500
Socket Welding end SW	ASME B16.11
Butt Welding end BW	ASME B16.25
Threaded end NPT	ASME B1.20.1
Face-to-face (FTF) / End-to-end (ETE)	ASME B16.10 and Manufacturer standard
Flanged ends	ASME B16.5

Dimensions CL150

DN		15	20	25	32	40	50
[mm]	L	152	117	127	140	165	203
	D	95	99	108	117	127	152
	Dk	60,7	69,9	79,4	88,9	98,4	120,7
	b	12	13	15	16	18	20
	nxd	4x15,9	4x15,9	4x15,9	4x15,9	4x15,9	4x19,0

Dimensions CL300

DN		15	20	25	32	40	50
[mm]	L	152	178	203	216	229	267
	D	95	117	124	133	155	165
	Dk	66,7	82,6	88,9	98,4	114,3	127
	b	15	16	18	20	21	23
	nxd	4x15,9	4x15,9	4x19,0	4x19,0	4x22,2	8x19,0

Dimensions CL600

DN		15	20	25	32	40	50
[mm]	L	165	190	216	229	241	292
	D	95	117	124	133	155	165
	Dk	66,7	82,6	88,9	98,4	114,3	127
	b	21	23	25	28	29	32
	nxd	4x15,9	4x19,0	4x19,0	4x19,0	4x22,2	8x19,0

Dimensions CL1500

DN		15	20	25	32	40	50
[mm]	L	216	229	254	279	305	368
	D	121	130	149	159	178	215
	Dk	82,6	88,9	101,6	111,1	123,8	165,1
	b	29	32	35	35	39	45,1
	nxd	4x22,2	4x22,2	4x25,4	4x25,4	4x28,6	8x25,4

Y Type Strainer

DDN50-DN500
CL150-CL300



List of Materials

Item	Part	Material Group acc. to ASME B16.34					
		Application					
		-29°C÷425°C	-46°C÷345°C	-29°C÷550°C	-29°C÷550°C	-196°C÷600°C	-196°C÷600°C
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
2	Cover	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
3	Net	AISI 304 / AISI 316					
4	Stud Bolts	A193 B7	A193 B116 / 1.7709			A193 B8 / A193 B8M	
5	Nuts	A194 2H	A194 4 / 1.7709			A194 B8 / A194 B8M	
6	Cover Gasket	Spiral - Wound / Reinforced pure graphite					

Standarts

Check Valves according to EN558-1	PN16 - PN40
Face-to-face dimensions	EN 1759-1
Flanged ends	EN 558

Dimensions CL150

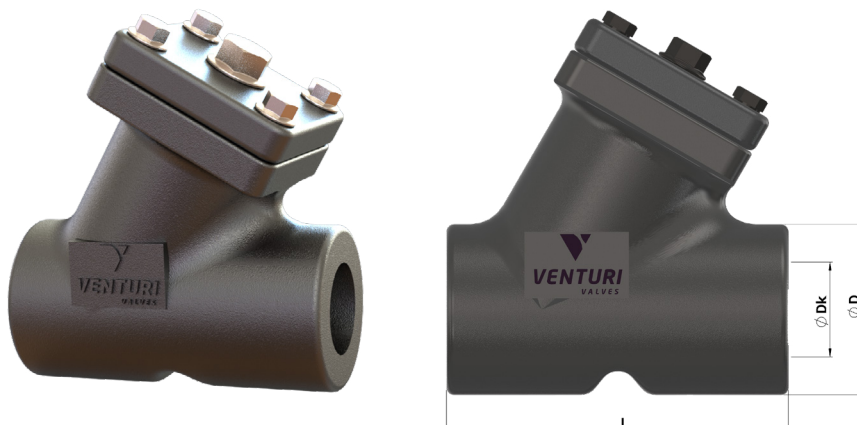
DN		50	65	80	100	150	200	250	350	400	500
[mm]	L	229	279	318	350	470	597	673	978	1067	978
	D	150	180	190	230	280	345	405	535	595	700
	Dk	120,7	139,7	152,4	190,5	241,3	298,5	362	476,3	539,7	635
	b	19,5	22,7	24,3	24,3	25,9	29	30,6	35,4	37	43,3
	nxd	4x19,0	4x19,0	4x19,0	8x19,0	8x22,2	8x22,2	12x25,4	12x28,6	16x28,6	20x31,7

Dimensions CL300

DN		50	65	80	100	150	200	250
[mm]	L	267	292	318	356	444	559	622
	D	165	190	210	255	320	380	445
	Dk	127	149,2	168,3	200	269,9	330,2	387,4
	b	22,7	25,9	29	32,2	37	41,7	48,1
	nxd	8x19,0	8x22,2	8x22,2	8x22,2	12x22,2	12x25,4	16x28,6

Forget Dirt Strainer

DN15-DN500
CL800-CL2500



List of Materials

Item	Part	Material Group acc. to ASME B16.34					
		Application					
		-29°C÷425°C	-46°C÷345°C	-29°C÷550°C	-29°C÷550°C	-196°C÷600°C	-196°C÷600°C
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
2	Cover	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
3	Net	AISI 304 / AISI 316					
4	Stud Bolts	A193 B7	A193 B116 / 1.7709			A193 B8 / A193 B8M	
5	Nuts	A194 2H	A194 4 / 1.7709			A194 B8 / A194 B8M	
6	Cover Gasket	Spiral - Wound / Reinforced pure graphite					

Standarts

Strainers according to ASME	Class 800 ÷ Class 2500
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5
Welding ends	ASME B16.25

Dimensions CL800

DN		15	20	25	32	40	50
[mm]	L	90	110	130	180	180	185
	Dk	60	75	93	144	144	144

Dimensions CL1500

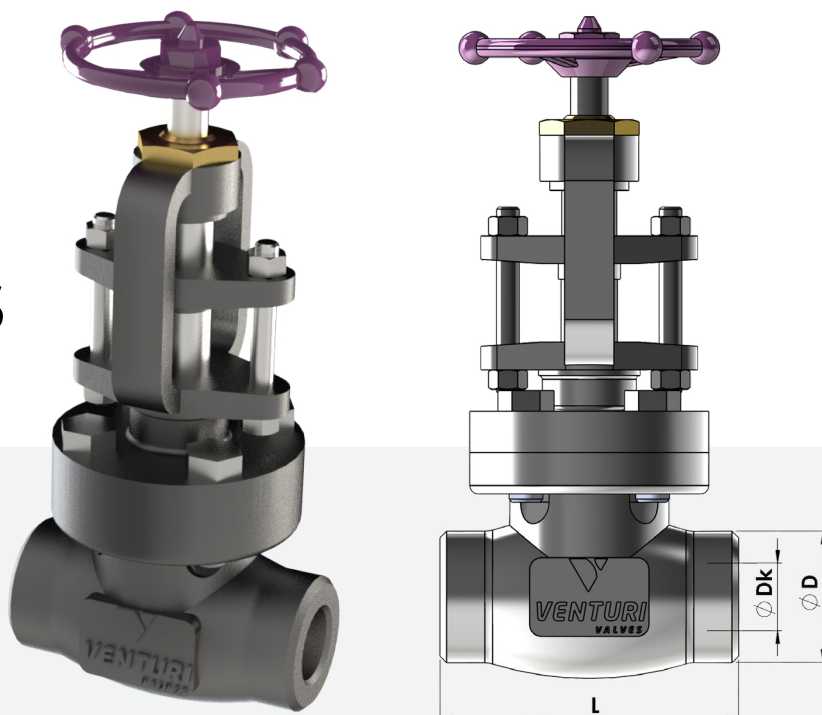
DN		15	20	25	40	50
[mm]	L	110	130	180	185	205
	Dk	75	93	144	144	160

Dimensions CL2500

DN		15	20	25	40	50
[mm]	L	190	190	190	190	213
	Dk	160	160	160	170	190

Forged Gate Valves

DN15-DN50
CL150-CL1500



List of Materials

List of Materials											
Item	Part	Material Group acc. to ASME B16.34									
		Application									
		-29°C/+425°C	-46°C/+425°C	-29°C/+595°C	-29°C/+595°C	-29°C/+600°C	-29°C/+600°C	-196°C/+550°C	-196°C/+550°C	-196°C/+540°C	-196°C/+540°C
1	Body	A105	A350 LF2	A182 F12	A182 F22	A182 F5	A182 F91	A182 F304	A182 F316	A182 F321	A182 F347
2	Bonnet	A105	A350 LF2	A182 F12	A182 F22	A182 F5	A182 F91	A182 F304	A182 F316	A182 F321	A182 F347
3	Wedge	A351 CF8M									
4	Body Welded on with	13Cr or HF						Basic material or Stellite			
5	Wedge Welded on with	13Cr or HF						Basic material or Stellite			
6	Stem	SS 420						SS 304 / SS 316			
7	Stem Nut	SS 420						SS 304 / SS 316			
8	Stud Bolts	A193 B7	A193 B16 / 1.7709						A193 B8 or A193 B8M		
9	Nuts	A194 2H	A194 4 / 1.7709						A194 8 or A194 8M		
10	Bonnet Gasket	spiral - wound									
11	Steam Packing	graphite with corrosion inhibitor									
12	Handwheel	forged carbon steel									

Standarts

Globe Valves according to ASME B16.34	CL150 - CL1500
Socket Welding end SW	ASME B16.11
Butt Welding end BW	ASME B16.25
Threaded end NPT	ASME B1.20.1
Face-to-face (FTF) / End-to-end (ETE)	ASME B16.10 and Manufacturer standard
Flanged ends	ASME B16.5

Dimensions CL800-SW

DN		15	20	25	40	50
[mm]	L	80	90	110	127	134
	Dk	9,6	14	18	30	36,5
	D	32	38	48	64	78

Dimensions CL1500-SW

DN		15	20	25	40	50
[mm]	L	90	110	127	127	210
	Dk	9,6	14	18	30	36,5
	D	38	48	56	78	85

Dimensions CL150

DN		15	20	25	32	40	50
[mm]	L	108	117	127	140	165	178
	Dk	90	100	110	115	125	150
	D	60,3	69,9	79,4	88,9	98,4	120,7
	b	11,6	13,2	14,7	16,3	17,9	19,5
	nxd	4x15,9	4x15,9	4x15,9	4x15,9	4x15,9	4x19,0

Dimensions CL300

DN		15	20	25	32	40	50
[mm]	L	140	152	165	178	190	216
	Dk	95	115	125	135	155	165
	D	66,7	82,6	88,9	98,4	114,3	127
	b	14,7	16,3	17,9	19,5	21,1	22,7
	nxd	4x15,9	4x19,0	4x19,0	4x19,0	4x22,2	8x19,0

Dimensions CL600

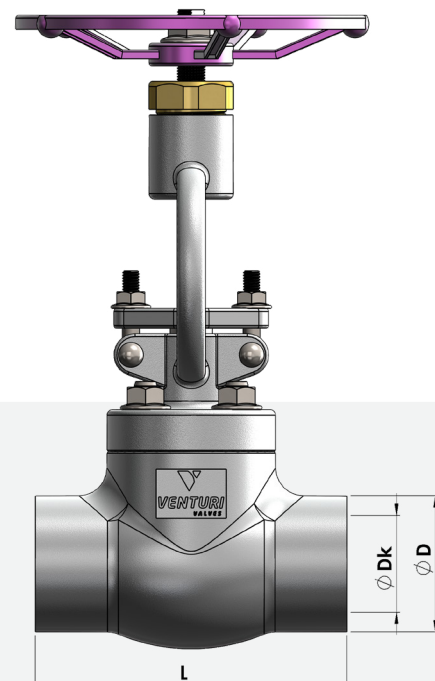
DN		15	20	25	32	40	50
[mm]	L	165	190	216	229	241	292
	Dk	95	115	125	135	155	165
	D	66,7	82,6	88,9	98,4	114,3	127
	b	21,3	22,9	24,5	27,7	29,3	32,4
	nxd	4x15,9	4x19,0	4x19,0	4x19,0	4x22,2	8x19,0

Dimensions CL1500

DN		15	20	25	32	40
[mm]	L	216	229	254	279	305
	Dk	120	130	150	160	180
	D	82,6	88,9	101,6	111,1	123,8
	b	29,3	32,4	35,6	35,6	38,8
	nxd	4x22,2	4x22,2	4x25,4	4x25,4	4x28,6

Forged Glob Valves

DN15-DN50
CL150-CL1500



List of Materials

List of Materials											
Item	Part	Material Group acc. to ASME B16.34									
		Application									
		-29°C/+425°C	-46°C/+425°C	-29°C/+595°C	-29°C/+595°C	-29°C/+600°C	-29°C/+600°C	-196°C/+550°C	-196°C/+550°C	-196°C/+540°C	-196°C/+540°C
1	Body	A105	A350 LF2	A182 F12	A182 F22	A182 F5	A182 F91	A182 F304	A182 F316	A182 F321	A182 F347
2	Bonnet	A105	A350 LF2	A182 F12	A182 F22	A182 F5	A182 F91	A182 F304	A182 F316	A182 F321	A182 F347
3	Wedge	SS420 or SS431						SS 304 / SS 316			
4	Body Welded on with	13Cr or HF						Basic material or Stellite			
5	Wedge Welded on with	13Cr or HF						Basic material or Stellite			
6	Stem	SS 420						SS 304 / SS 316			
7	Stem Nut	SS 420						SS 304 / SS 316			
8	Stud Bolts	A193 B7		A193 B16 / 1.7709				A193 B8 or A193 B8M			
9	Nuts	A194 2H		A194 4 / 1.7709				A194 8 or A194 8M			
10	Bonnet Gasket	spiral - wound / reinforced pure graphite									
11	Steam Packing	graphite with corrosion inhibitor									
12	Handwheel	cast iron / epoxy coated steel									

Standarts

Globe Valves according to ASME B16.34	CL150 - CL1500
Socket Welding end SW	ASME B16.11
Butt Welding end BW	ASME B16.25
Threaded end NPT	ASME B1.20.1
Face-to-face (FTF) / End-to-end (ETE)	ASME B16.10 and Manufacturer standard
Flanged ends	ASME B16.5

Dimensions CL800-SW

DN		15	20	25	40	50
[mm]	L	80	90	110	150	180
	Dn	9,6	14	18	30	36,5
	D	32	38	48	64	78

Dimensions CL1500-SW

DN		15	20	25	40	50
[mm]	L	90	110	127	180	210
	Dn	9,6	14	18	30	36,5
	D	38	48	56	78	85

Dimensions CL150

DN		15	20	25	32	40	50
[mm]	L	108	117	127	140	165	203
	Dn	90	100	110	115	125	150
	D	60,3	69,9	79,4	88,9	98,4	120,7
	b	11,6	13,2	14,7	16,3	17,9	19,5
	nxd	4x15,9	4x15,9	4x15,9	4x15,9	4x15,9	4x19,0

Dimensions CL300

DN		15	20	25	32	40	50
[mm]	L	152	178	203	216	229	267
	Dn	95	115	125	135	155	165
	D	66,7	82,6	88,9	98,4	114,3	127
	b	14,7	16,3	17,9	19,5	21,1	22,7
	nxd	4x15,9	4x19,0	4x19,0	4x19,0	4x22,2	8x19,0

Dimensions CL600

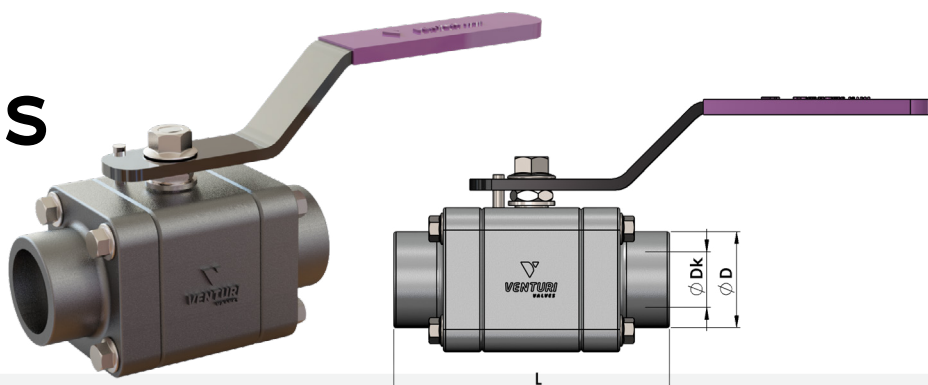
DN		15	20	25	32	40	50
[mm]	L	165	190	216	229	241	292
	Dn	95	115	125	135	155	165
	D	66,7	82,6	88,9	98,4	114,3	127
	b	21,3	22,9	24,5	27,7	29,3	32,4
	nxd	4x15,9	4x19,0	4x19,0	4x19,0	4x22,2	8x19,0

Dimensions CL1500

DN		15	20	25	32	40
[mm]	L	216	229	254	279	305
	Dn	120	130	150	160	180
	D	82,6	88,9	101,6	111,1	123,8
	b	29,3	32,4	35,6	35,6	38,8
	nxd	4x22,2	4x22,2	4x25,4	4x25,4	4x28,6

Forged Ball Valves

DN15-DN50
CL800-CL1500



List of Materials

List of Materials		Material Group acc. to ASME B16.34					
Item	Part						
		Application					
		-30 °C / +250 °C					
1	Body	A216 WCB			A351 CF8M		
2	Disc	A182 F316 or A351Gr. CF8M			A182 F316 or A351Gr. CF8M		
3	Seat	TFM1600 / PTFE / RTFE					
4	Stem	316SS					
5	Stem Nut	A194-8					
6	Stud Bolts	A193 B7/1.7225					
7	Nuts	A194 2H/1.1191					
8	O-Ring	NBR/VITON					
9	Handle	Carbon Steel					

Standarts

Ball Valves according to ASME B16.34	CL800 / CL1500
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5

Dimensions CL800

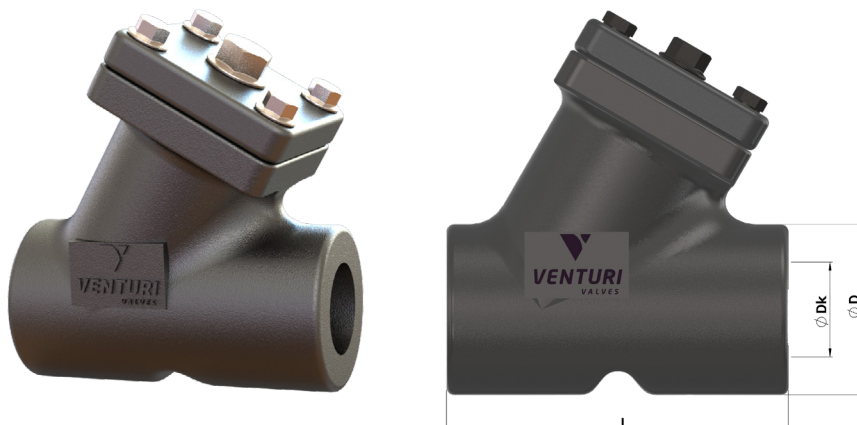
DN		15	20	25	40	50
[mm]	L	72	94	106	125,5	128
	Dk	15	20	25	40	50
	nx d	45	59	62	89	89

Dimensions CL1500

DN		15	20	25	40	50
[mm]	L	104	127	134	200	222
	Dk	15	20	25	40	50
	nx d	49	66	70	101,5	117,7

Forget Dirt Strainer

DN15-DN500
CL800-CL2500



List of Materials

List of Materials							
Item	Part	Material Group acc. to ASME B16.34					
		Application					
		-29°C÷425°C	-46°C÷345°C	-29°C÷550°C	-29°C÷550°C	-196°C÷600°C	-196°C÷600°C
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
2	Cover	A216 WCB	A352 LCB	A217 WC6	A217 C5	A351 CF8	A351 CF8M
3	Net	AISI 304 / AISI 316					
4	Stud Bolts	A193 B7	A193 B116 / 1.7709			A193 B8 / A193 B8M	
5	Nuts	A194 2H	A194 4 / 1.7709			A193 B8 / A194 B8M	
6	Cover Gasket	Spiral - Wound / Reinforced pure graphite					

Standarts

Strainers according to ASME	Class 800 ÷ Class 2500
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5
Welding ends	ASME B16.25

Dimensions CL800

DN		20	20	25	32	40	50
[mm]	L	90	110	110	180	180	185
	Dk	60	75	93	144	144	144

Dimensions CL1500

DN		15	20	25	40	50
[mm]	L	110	130	180	185	205
	Dk	75	93	144	144	160

Dimensions CL1500

DN		15	20	25	40	50
[mm]	L	190	190	190	190	213
	Dk	160	160	160	170	190

Forged Check Valves

DN15-DN50
CL150-CL1500



List of Materials

List of Materials											
Item	Part	Material Group acc. to ASME B16.34									
		Application									
		-29°C/+425°C	-46°C/+425°C	-29°C/+595°C	-29°C/+595°C	-29°C/+600°C	-29°C/+600°C	-196°C/+550°C	-196°C/+550°C	-196°C/+540°C	-196°C/+540°C
1	Body	A105	A350 LF2	A182 F12	A182 F22	A182 F5	A182 F91	A182 F304	A182 F316	A182 F321	A182 F347
2	Cover	A105	A350 LF2	A182 F12	A182 F22	A182 F5	A182 F91	A182 F304	A182 F316	A182 F321	A182 F347
3	Disc	SS420 / SS431 (or Stellite overlay)						SS304 / SS316 (or Stellite overlay)			
4	Seat	SS420 / SS431 (or Stellite overlay)						SS304 / SS316 (or Stellite overlay)			
5	Spring	45CrMoV6-7						AISI 316			
6	Stud Bolts	A193 B7		A193 B16 / 1.7709				A193 B8 / A193 B8M			
7	Nuts	A193 B7		A193 B16 / 1.7709				A194 8 / A194 8M			
8	Cover Gasket	spiral - wound									

Standarts

Check Valves according to ASME B16.34	CL150 - CL1500
Socket Welding end SW	ASME B16.11
Butt Welding end BW	ASME B16.25
Threaded end NPT	ASME B1.20.1
Face-to-face (FTF) / End-to-end (ETE)	ASME B16.10 and Manufacturer standard
Flanged ends	ASME B16.5

Dimensions CL800-SW

DN		15	20	25	40	50
[mm]	L	84	90	114	180	210
	D	60	68	76	102	112
	Dk	21,8	27,2	33,9	48,8	61,2

Dimensions CL1500-SW

DN		15	20	25	40	50
[mm]	L	90	114	180	210	215
	D	68	76	102	112	112
	Dk	21,8	27,2	33,9	48,8	61,2

Dimensions CL150

DN		15	20	25	32	40	50
[mm]	L	108	117	127	140	165	203
	Dk	89	99	108	117	127	152
	D	60,3	69,9	79,4	88,9	98,4	120,7
	b	12	13	15	16	18	20
	nxd	4x15,9	4x15,9	4x15,9	4x15,9	4x15,9	4x19,0

Dimensions CL300

DN		15	20	25	32	40	50
[mm]	L	152	178	203	216	229	267
	Dk	95	117	124	135	155	165
	D	66,7	82,6	88,9	98,4	114,3	127
	b	15	16	18	20	21	23
	nxd	4x15,9	4x19,0	4x19,0	4x19,0	4x22,2	8x19,0

Dimensions CL600

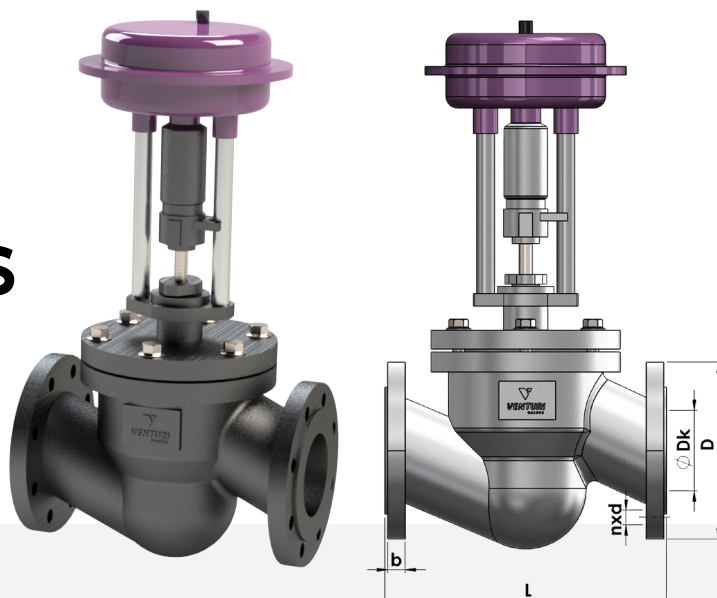
DN		15	20	25	32	40	50
[mm]	L	165	190	216	229	241	292
	Dk	95	117	124	133	155	165
	D	66,7	82,6	88,9	98,4	114,3	127
	b	21	23	25	28	29	32
	nxd	4x15,9	4x19,0	4x19,0	4x19,0	4x22,2	8x19,0

Dimensions CL1500

DN		15	20	25	32	40	50
[mm]	L	216	229	254	279	305	368
	Dk	121	130	149	159	178	215
	D	82,6	88,9	101,6	111,1	123,8	165,1
	b	29	32	35	35	39	45,1
	nxd	4x22,2	4x22,2	4x25,4	4x25,4	4x28,6	8x25,4

Globe Control Valves

DN50-DN600
PN10-PN16



List of Materials

Item	Part	Material Group acc. to EN 12516-1		
		Application		
		-10 °C / +80 °C	-10 °C / +130 °C	-10 °C / +170 °C
1	Body	0.6025 / 0.7043 / 1.4021 / 1.4301		
2	Bonnet	0.6025 / 0.7043 / 1.4021 / 1.4301		
3	Wedge / Seat	Metal to Metal	EPDM/NBR	VITON / PTFE
4	Stem	1.4021 / 1.4122		1.4301
5	Stem Nut	1.4021 / 1.4122		1.4301
6	Stud Bolts	A193 B7/1.7225		A193 B8/1.4301
7	Nuts	A193 B7/1.7225		A193 B8/1.4301
8	Bonnet Gasket	reinforced pure graphite		
9	Steam Packing	graphite with corrosion inhibitor		
10	Handwheel	steel		

Standarts

Gate Valves according to EN 1171	PN 10 / PN 16
Face-to-face dimensions	EN 558-Serie 16
Flanged ends	EN 1092-2 / ISO7005-2
End-to-end dimensions	EN 12982

Dimensions PN10

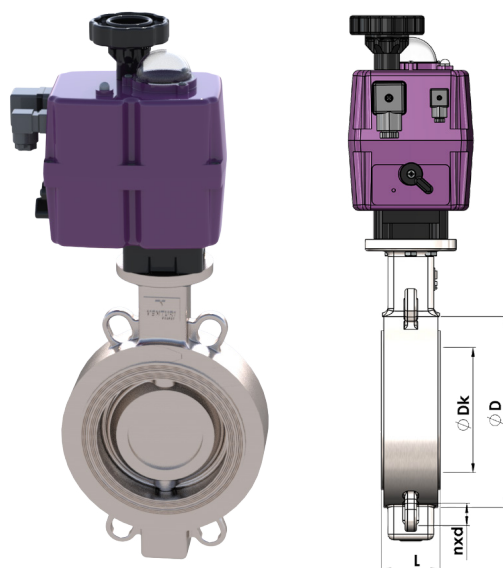
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	40	40	50	50	50	60	60	70	70	96	100	106	110
	Dk	124	139	154	174	189	220	275	326	380	438	494	547	613
	D	283	308	333	378	423	474	593	685	792	900	978	1105	1215
	nxd	4x16	4x16	4x16	4x16	4x16	4x20	4x20	8x20	8x20	10x20	10x24	14x24	14x27

Dimensions PN10

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
[mm]	L	40	40	50	50	50	60	60	70	70	96	100	106	110
	Dk	124	139	154	174	189	220	275	326	380	438	494	547	613
	D	283	308	333	378	423	474	593	685	792	900	978	1105	1215
	nxd	4x16	4x16	4x16	4x16	4x16	4x20	4x20	8x20	8x20	10x20	10x24	14x24	14x27

High Performance Butterfly Control Valves

DN50-DN400
CL150-CL300



List of Materials

List of materials		Material Group acc. to ASME B16.34			
Item	Part				
		Application			
		up to 400 °C		up to 400 °C	
1	Body	A216 WCB		A351 CF8M	
2	Disc	A182 F316 or A351Gr. CF8M		A182 F316 or A351Gr. CF8M	
3	Seat	A182 F316			
4	Stem	1.4021 - AISI 420			
5	Stem Nut	A194-8			
6	Stud Bolts	A193 B7/1.7225			
7	Nuts	A194 2H/1.1191			
8	O-Ring	EPDM / NBR			
9	Handle	Carbon Steel			

Standarts

Butterfly Valves according to API 609	CL150 / CL300
Face-to-face dimensions	ASME B16.10
Flanged ends	ASME B16.5

Dimensions CL150

DN		50	65	80	100	125	150	200	250	300	350	400
[mm]	L	43	46	49	56	64	70	71	76	83	92	102
	Dk	120,7	139,7	152,4	190,5	215,9	298,5	298,5	362	431,8	476,3	539,8
	nxd	4x19	4x19	4x19	8x19	8x22	8x22	8x22	12x25	12x25	12x29	12x29

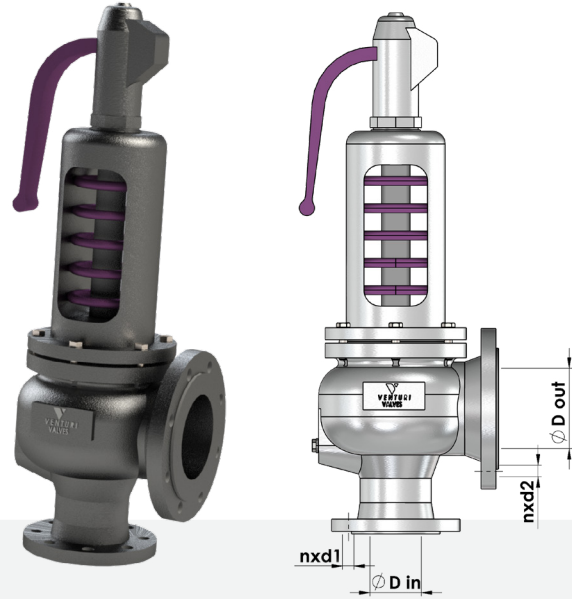
Dimensions CL300

DN		50	65	80	100	125	150	200	250	300	350	400
[mm]	L	43	46	49	56	64	70	71	76	83	92	102
	Dk	120,7	149	168,5	200	235	270	330	387,5	451	451	451
	nxd	8x19	8x22	8x22	8x22	8x22	12x22	12x25	16x29	16x32	20x32	20x35

Full Lift Safety Valves

DN20-DN100

PN16-PN40



List of Materials

Item	Part	Material Group acc. to EN 12516-1					
		Application					
		-30 °C / +180 °C					
1	Body	1.0619			1.4408		
2	Spring Sleeve	1.0619			1.4408		
3	Orifice	AISI 430					
4	Stem	316SS					
5	Stem Nut	A194-8					
6	Stud Bolts	A193 B7/1.7225					
7	Nuts	A194 2H/1.1191					
8	O-Ring	NBR/VITON					
9	Handle	Carbon Steel					

Standarts

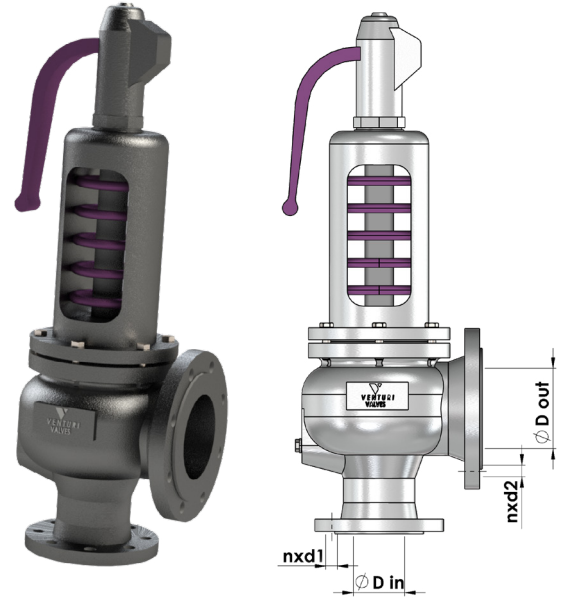
Safety Valves according to EN 1092	PN 16 / PN 40
Face-to-face dimensions	EN 1092-1
Flanged ends	EN 1092-1

	GİRİŞ								ÇIKIŞ								Ex	Kx	L
	ØDN	ØD	ØN	ØF	ØM	ØMN	f	b	ØDNx	ØDx	ØNx	ØFx	ØMx	ØMNx	fx	bx			
DN20 - DN32	20	105	75	58	14	4	2	18	32	140	100	78	18	4	2	18	122	112	398
DN25 - DN40	25	115	85	68	14	4	2	18	40	150	110	88	18	4	3	18	129	123	421
DN32 - DN50	32	140	100	78	18	4	2	18	50	165	125	102	18	4	3	18	135	139	497
DN40 - DN65	40	150	110	88	18	4	3	18	65	185	145	122	18	4	3	18	150	141	531
DN50 - DN80	50	165	125	102	18	4	3	18	80	200	160	138	20	8	3	20	150	138	571
DN65 - DN100	65	185	122	122	18	4	3	18	100	220	180	158	20	8	3	20	175	178	674

Proportional Takeoff Control Valves

DN20-DN100

PN16-PN40



List of Materials

İtem	Part	Material Group acc. to EN 12516-1					
		Application					
		-30 °C / +180 °C					
1	Body	1.0619			1.4408		
2	Spring Sleeve	1.0619			1.4408		
3	Orifice	AISI 430					
4	Stem	316SS					
5	Stem Nut	A194-8					
6	Stud Bolts	A193 B7/1.7225					
7	Nuts	A194 2H/1.1191					
8	O-Ring	NBR/VİTON					
9	Handle	Carbon Steel					

Standarts

Safety Valves according to EN 1092	PN 16 / PN 40
Face-to-face dimensions	EN 1092-1
Flanged ends	EN 1092-1

	GİRİŞ								ÇIKIŞ								Ex	Kx	L
	ØDN	ØD	ØN	ØF	ØM	ØMN	f	b	ØDNx	ØDx	ØNx	ØFx	ØMx	ØMNx	fx	bx			
DN20 - DN32	20	105	75	58	14	4	2	18	32	140	100	78	18	4	2	18	122	112	398
DN25 - DN40	25	115	85	68	14	4	2	18	40	150	110	88	18	4	3	18	129	123	421
DN32 - DN50	32	140	100	78	18	4	2	18	50	165	125	102	18	4	3	18	135	139	497
DN40 - DN65	40	150	110	88	18	4	3	18	65	185	145	122	18	4	3	18	150	141	531
DN50 - DN80	50	165	125	102	18	4	3	18	80	200	160	138	20	8	3	20	150	138	571
DN65 - DN100	65	185	145	122	18	4	3	18	100	220	180	158	20	8	3	20	175	178	674



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