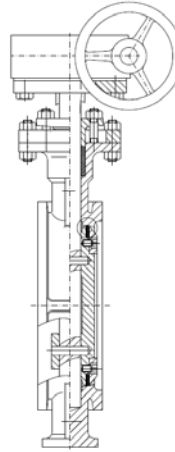


Design acc. : EN 593 .
Face to face : EN 558 .
Flange end : EN1092 .
Pressure test : ISO 5208 .
Body : WCB/CF8M/4A

**FIG : 921****Page 1 - 7**

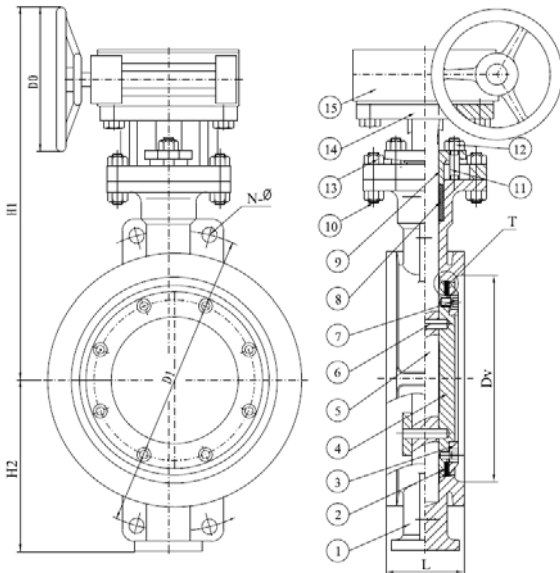
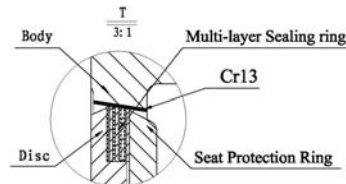


FIG.	Pressure	Material	Range
132.921	PN10	WCB	DN50-DN80
133.921	PN16	WCB	DN50-DN80
134.921	PN25	WCB	DN50-DN80
152.921	PN10	CF8M	DN50-DN80
153.921	PN16	CF8M	DN50-DN80
154.921	PN25	CF8M	DN50-DN80
162.921	PN10	4A	DN50-DN80
163.921	PN16	4A	DN50-DN80
164.921	PN25	4A	DN50-DN80



Design acc. : EN 593 .
 Face to face : EN 558 .
 Flange end : EN 1092 .
 Pressure test : ISO 5208 .

Material list

NO.	Part	Material		
		FIG. 132/133/134.921	FIG. 152/153/154.921	FIG. 162/163/164.921
1	Body	ASTM A216 WCB+Cr13	ASTM A351 CF8M	ASTM A890 4A
2	Multi-layer sealing ring	ASTM A182 F304+Graphite	ASTM A182 F316+Graphite	ASTM A182 F51+PTFE
3	Seat protection ring	ASTM A105	ASTM A182 F316	ASTM A182 F51
4	Disc	ASTM A216 WCB	ASTM A351 CF8M	ASTM A890 4A
5	Stem	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
6	Dowel pin	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
7	Protection ring hex socket	GB70 Gr. 8.8	ASTM F738M A2-70	ASTM F738M A2-70
8	Packing	Graphite	Graphite	Graphite
9	Flange gland	ASTM A216 WCB	ASTM A351 CF8M	ASTM A351 CF8
10	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
11	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
12	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
13	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
14	Yoke	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB
15	Worm gear	-----	-----	-----

Dimension list

PN	DN	L	Dv	D1	N-Φ	H1	H2	D0
10	50	43	60	125	4-18	300	110	160
	65	46	75	145	8-18	315	120	160
	80	49	90	160	8-18	335	130	160
16	50	43	60	125	4-18	300	110	160
	65	46	75	145	8-18	315	120	160
	80	49	90	160	8-18	335	130	160
25	50	43	60	125	4-18	310	160	160
	65	46	75	145	8-18	320	180	160
	80	49	90	160	8-18	335	195	160

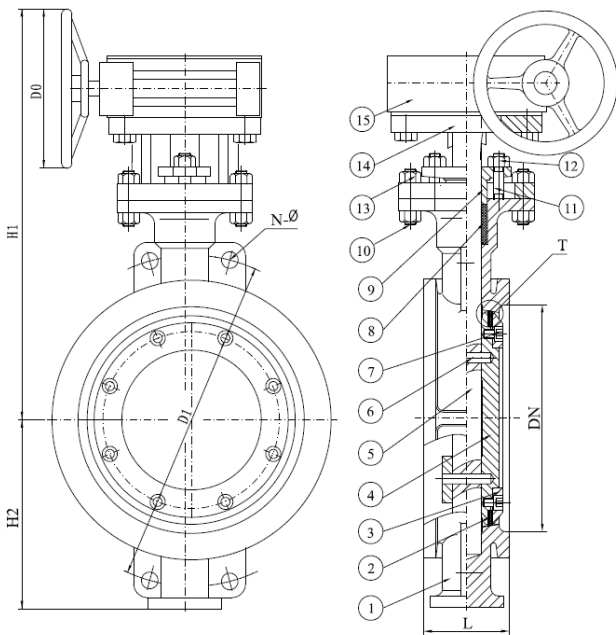


FIG.	Pressure	Material	Range
132.921	PN10	WCB	DN100-DN150
133.921	PN16	WCB	DN100-DN150
134.921	PN25	WCB	DN100-DN150
135.921	PN40	WCB	DN100-DN125
152.921	PN10	CF8M	DN100-DN150
153.921	PN16	CF8M	DN100-DN150
154.921	PN25	CF8M	DN100-DN150
155.921	PN40	CF8M	DN100-DN125
162.921	PN10	4A	DN100-DN150
163.921	PN16	4A	DN100-DN150
164.921	PN25	4A	DN100-DN150
165.921	PN40	4A	DN100-DN125

Design acc. : EN 593 .
 Face to face : EN 558 .
 Flange end : EN 1092 .
 Pressure test : ISO 5208 .

Material list

NO.	Part	Material		
		FIG. 132/133/134/135.921	FIG. 152/153/154/155.921	FIG. 162/163/164/165.921
1	Body	ASTM A216 WCB+Cr13	ASTM A351 CF8M	ASTM A890 4A
2	Multi-layer sealing ring	ASTM A182 F304+Graphite	ASTM A182 F316+Graphite	ASTM A182 F51+PTFE
3	Seat protection ring	ASTM A105	ASTM A182 F316	ASTM A182 F51
4	Disc	ASTM A216 WCB	ASTM A351 CF8M	ASTM A890 4A
5	Stem	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
6	Dowel pin	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
7	Protection ring hex socket screw	GB70 Gr. 8.8	ASTM F738M A2-70	ASTM F738M A2-70
8	Packing	Graphite	Graphite	Graphite
9	Flange gland	ASTM A216 WCB	ASTM A351 CF8M	ASTM A351 CF8
10	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
11	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
12	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
13	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
14	Yoke	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB
15	Worm gear	-----	-----	-----

Dimension list

PN	DN	L	D1	N-Φ	H1	H2	Do
10	100	56	180	8-18	340	140	160
	125	64	210	8-18	435	160	230
	150	76	240	8-22	455	175	230
16	100	56	180	8-18	340	140	160
	125	64	210	8-18	435	160	230
	150	76	240	8-22	455	175	230
25	100	56	190	8-22	365	160	160
	125	64	220	8-26	460	180	230
	150	76	250	8-26	485	195	230
40	100	56	190	8-22	420	165	160
	125	64	220	8-26	435	175	230

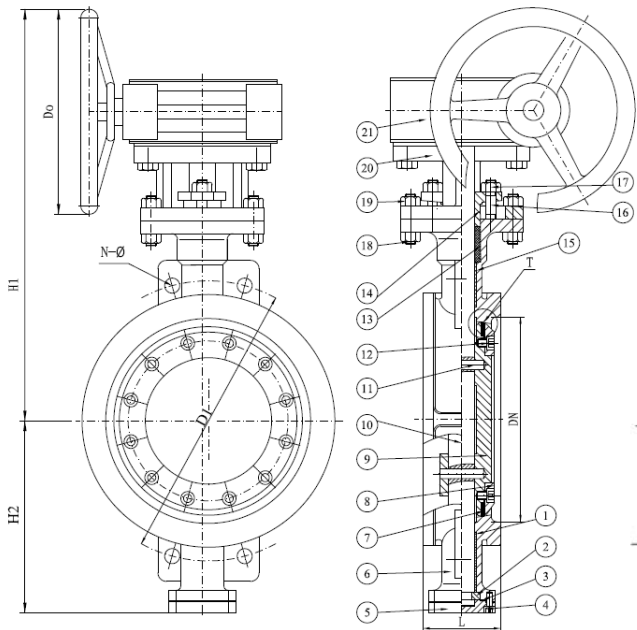
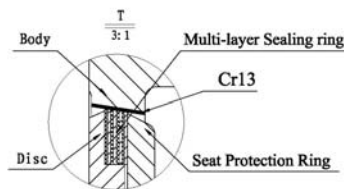


FIG.	Pressure	Material	Range
132.921	PN10	WCB	DN200
135.921	PN40	WCB	DN150
152.921	PN10	CF8M	DN200
155.921	PN40	CF8M	DN150
162.921	PN10	4A	DN200
165.921	PN40	4A	DN150



Design acc. : EN 593 .
Face to face : EN 558 .
Flange end : EN 1092 .
Pressure test : ISO 5208 .

Material list

NO.	Part	Material		
		FIG. 132.921 / 135.921	FIG. 152.921 / 155.921	FIG. 162.921 / 165.921
1	Lower bush	SS304	SS316	SS316
2	Retainer ring	ASTM A182 F304	ASTM A182 F304	ASTM A182 F304
3	Sealing shim	Graphite	Graphite	Graphite
4	Bottom cap hex socket screw	GB70 Gr. 8.8	ASTM F738M A2-70	ASTM F738M A2-70
5	Bottom cap	ASTM A105	ASTM A182 F316	ASTM A182 F51
6	Body	ASTM A216 WCB+Cr13	ASTM A351 CF8M	ASTM A890 4A
7	Multi-layer sealing ring	ASTM A182 F304+Graphite	ASTM A182	ASTM A182 F51+PTFE
8	Seat protection ring	ASTM A105	ASTM A182 F316	ASTM A182 F51
9	Disc	ASTM A216 WCB	ASTM A351 CF8M	ASTM A890 4A
10	Stem	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
11	Dowel pin	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
12	Protection ring hex socket screw	GB70 Gr. 8.8	ASTM F738M A2-70	ASTM F738M A2-70
13	Packing	Graphite	Graphite	Graphite
14	Flange gland	ASTM A216 WCB	ASTM A351 CF8M	ASTM A351 CF8
15	Lower bush	SS304	SS316	SS316
16	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
17	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
18	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
19	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
20	Yoke	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB
21	Worm gear	-----	-----	-----

Dimension list

PN	DN	L	D1	N-Φ	H1	H2	D _o
10	200	89	295	8-22	470	220	250
40	150	76	250	8-26	480	205	280

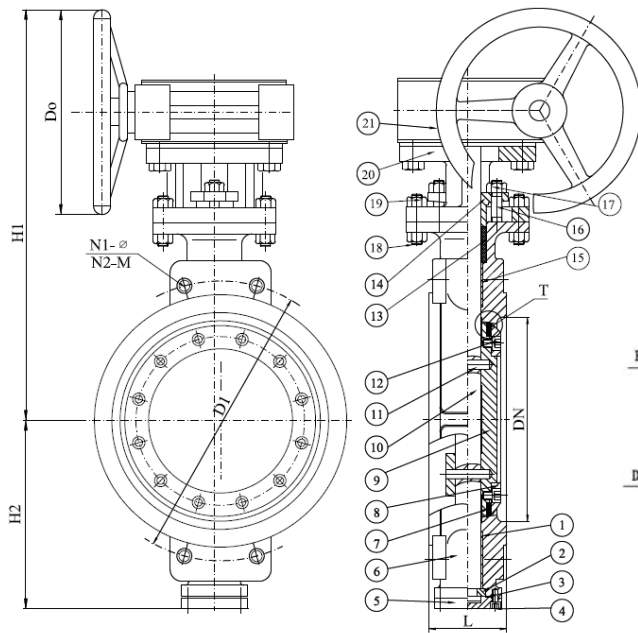
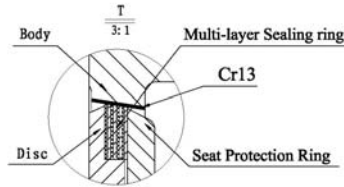


FIG.	Pressure	Material	Range
132.921	PN10	WCB	DN250-DN1200
152.921	PN10	CF8M	DN250-DN1200
162.921	PN10	4A	DN250-DN1200



Design acc. : EN 593 .
 Face to face : EN 558 .
 Flange end : EN 1092 .
 Pressure test : ISO 5208 .

Material list

NO.	Part	Material		
		FIG. 132.921	FIG. 152.921	FIG. 162.921
1	Lower bush	SS304	SS316	SS316
2	Retainer ring	ASTM A182 F304	ASTM A182 F304	ASTM A182 F304
3	Sealing shim	Graphite	Graphite	Graphite
4	Bottom cap hex socket screw	GB70 Gr. 8.8	ASTM F738M A2-70	ASTM F738M A2-70
5	Bottom cap	ASTM A105	ASTM A182 F316	ASTM A182 F51
6	Body	ASTM A216 WCB+Cr13	ASTM A351 CF8M	ASTM A890 4A
7	Multi-layer sealing ring	ASTM A182 F304+Graphite	ASTM A182 F316+Graphite	ASTM A182 F51+PTFE
8	Seat protection ring	ASTM A105	ASTM A182 F316	ASTM A182 F51
9	Disc	ASTM A216 WCB	ASTM A351 CF8M	ASTM A890 4A
10	Stem	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
11	Dowel pin	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
12	Protection ring hex socket screw	GB70 Gr. 8.8	ASTM F738M A2-70	ASTM F738M A2-70
13	Packing	Graphite	Graphite	Graphite
14	Flange gland	ASTM A216 WCB	ASTM A351 CF8M	ASTM A351 CF8
15	Lower bush	SS304	SS316	SS316
16	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
17	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
18	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
19	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
20	Yoke	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB
21	Worm gear	-----	-----	-----

Dimension list

PN	DN	L	D1	N1-Φ	N2-M	N1+N2	H1	H2	Do
10	250	114	350	8-22	4-20	12	500	250	280
	300	114	400	8-22	4-20	12	580	310	320
	350	127	460	12-22	4-20	16	625	345	320
	400	140	515	12-26	4-24	16	665	370	320
	450	152	565	16-26	4-24	20	700	410	350
	500	152	620	16-26	4-24	20	775	440	350
	600	154	725	16-30	4-27	20	875	495	400
	700	165	840	20-30	4-27	24	930	510	400
	800	190	950	20-33	4-30	24	1025	580	400
	900	203	1050	24-33	4-30	28	1100	635	450
	1000	216	1160	24-36	4-33	28	1220	705	500
	1200	254	1380	28-39	4-36	32	1315	795	500

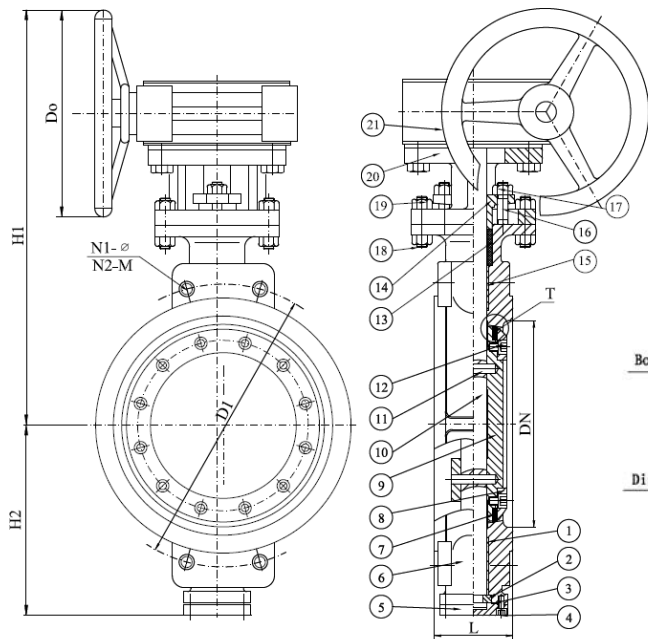
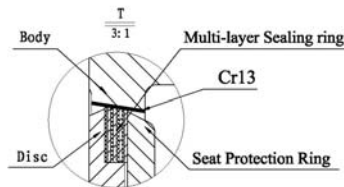


FIG.	Pressure	Material	Range
133.921	PN16	WCB	DN200-DN1200
153.921	PN16	CF8M	DN200-DN1200
163.921	PN16	4A	DN200-DN1200



Design acc. : EN 593 .
 Face to face : EN 558 .
 Flange end : EN 1092 .
 Pressure test : ISO 5208 .

Material list

NO.	Part	Material		
		FIG. 133.921	FIG. 153.921	FIG. 163.921
1	Lower bush	SS304	SS316	SS316
2	Retainer ring	ASTM A182 F304	ASTM A182 F304	ASTM A182 F304
3	Sealing shim	Graphite	Graphite	Graphite
4	Bottom cap hex socket screw	GB70 Gr. 8.8	ASTM F738M A2-70	ASTM F738M A2-70
5	Bottom cap	ASTM A105	ASTM A182 F316	ASTM A182 F51
6	Body	ASTM A216 WCB+Cr13	ASTM A351 CF8M	ASTM A890 4A
7	Multi-layer sealing ring	ASTM A182 F304+Graphite	ASTM A182 F316+Graphite	ASTM A182 F51+PTFE
8	Seat protection ring	ASTM A105	ASTM A182 F316	ASTM A182 F51
9	Disc	ASTM A216 WCB	ASTM A351 CF8M	ASTM A890 4A
10	Stem	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
11	Dowel pin	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
12	Protection ring hex socket screw	GB70 Gr. 8.8	ASTM F738M A2-70	ASTM F738M A2-70
13	Packing	Graphite	Graphite	Graphite
14	Flange gland	ASTM A216 WCB	ASTM A351 CF8M	ASTM A351 CF8
15	Lower bush	SS304	SS316	SS316
16	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
17	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
18	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
19	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
20	Yoke	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB
21	Worm gear	-----	-----	-----

Dimension list

PN	DN	L	D1	N1-Φ	N2-M	N1+N2	H1	H2	Do
16	200	89	295	8-22	4-20	12	485	230	250
	250	114	355	8-26	4-24	12	515	260	280
	300	114	410	8-26	4-24	12	595	285	320
	350	127	470	12-26	4-24	16	640	325	320
	400	140	525	12-30	4-27	16	680	360	320
	450	152	585	16-30	4-27	20	720	395	350
	500	152	650	16-33	4-30	20	795	435	400
	600	154	770	16-36	4-33	20	855	495	400
	700	165	840	20-36	4-33	24	980	525	450
	800	190	950	20-39	4-36	24	1070	595	450
	900	203	1050	24-39	4-36	28	1150	650	500
	1000	216	1170	24-42	4-39	28	1230	725	500
1200	254	1390	28-48	4-45	32	1325	815	500	

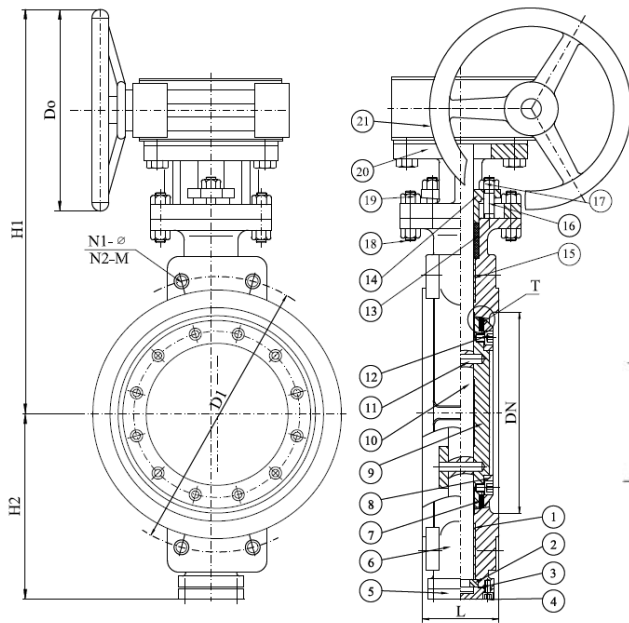
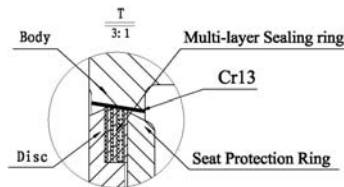


FIG.	Pressure	Material	Range
134.921	PN25	WCB	DN200-DN1200
154.921	PN25	CF8M	DN200-DN1200
164.921	PN25	4A	DN200-DN1200



Design acc. : EN 593 .
 Face to face : EN 558 .
 Flange end : EN 1092 .
 Pressure test : ISO 5208 .

Material list

NO.	Part	Material		
		FIG. 134.921	FIG. 154.921	FIG. 164.921
1	Lower bush	SS304	SS316	SS316
2	Retainer ring	ASTM A182 F304	ASTM A182 F304	ASTM A182 F304
3	Sealing shim	Graphite	Graphite	Graphite
4	Bottom cap hex socket screw	GB70 Gr. 8.8	ASTM F738M A2-70	ASTM F738M A2-70
5	Bottom cap	ASTM A105	ASTM A182 F316	ASTM A182 F51
6	Body	ASTM A216 WCB+Cr13	ASTM A351 CF8M	ASTM A890 4A
7	Multi-layer sealing ring	ASTM A182 F304+Graphite	ASTM A182 F316+Graphite	ASTM A182 F51+PTFE
8	Seat protection ring	ASTM A105	ASTM A182 F316	ASTM A182 F51
9	Disc	ASTM A216 WCB	ASTM A351 CF8M	ASTM A890 4A
10	Stem	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
11	Dowel pin	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
12	Protection ring hex socket screw	GB70 Gr. 8.8	ASTM F738M A2-70	ASTM F738M A2-70
13	Packing	Graphite	Graphite	Graphite
14	Flange gland	ASTM A216 WCB	ASTM A351 CF8M	ASTM A351 CF8
15	Lower bush	SS304	SS316	SS316
16	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
17	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
18	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
19	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
20	Yoke	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB
21	Worm gear	-----	-----	-----

Dimension list

PN	DN	L	D1	N1-Φ	N2-M	N1+N2	H1	H2	Do
25	200	89	310	8-26	4-24	12	495	235	280
	250	114	370	8-30	4-27	12	560	270	320
	300	114	430	12-30	4-27	12	640	315	320
	350	127	490	12-33	4-30	16	670	345	320
	400	140	550	12-36	4-33	16	715	385	350
	450	152	600	16-36	4-33	20	735	415	350
	500	152	660	16-36	4-33	20	805	445	400
	600	154	770	16-39	4-36	20	865	505	400
	700	165	875	20-42	4-39	24	990	565	450
	800	190	990	20-48	4-45	24	1090	625	450
	900	203	1090	24-48	4-45	28	1180	670	500
	1000	216	1210	24-56	4-52	28	1265	745	500
1200	254	1420	28-56	4-52	32	1350	855	500	

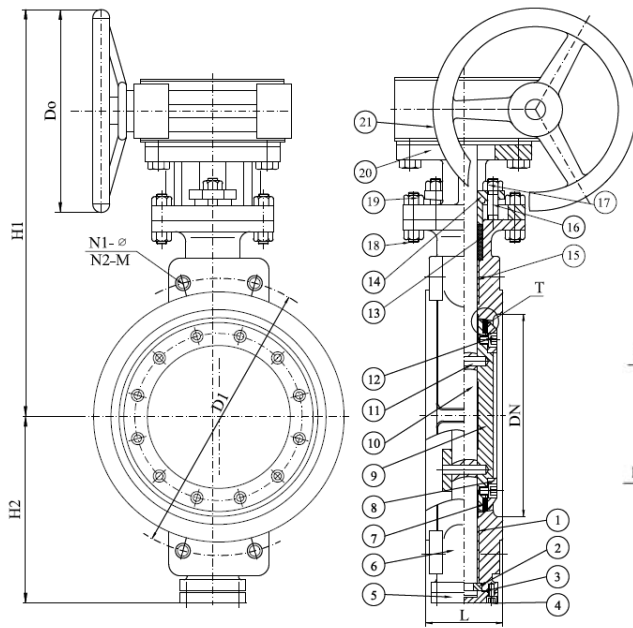
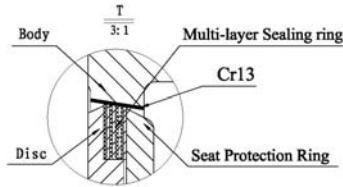


FIG.	Pressure	Material	Range
135.921	PN40	WCB	DN200-DN600
155.921	PN40	CF8M	DN200-DN600
165.921	PN40	4A	DN200-DN600



Design acc. : EN 593 .
 Face to face : EN 558 .
 Flange end : EN 1092 .
 Pressure test : ISO 5208 .

Material list

NO.	Part	Material		
		FIG. 135.921	FIG. 155.921	FIG. 165.921
1	Lower bush	SS304	SS316	SS316
2	Retainer ring	ASTM A182 F304	ASTM A182 F304	ASTM A182 F304
3	Sealing shim	Graphite	Graphite	Graphite
4	Bottom cap hex socket screw	GB70 Gr. 8.8	ASTM F738M A2-70	ASTM F738M A2-70
5	Bottom cap	ASTM A105	ASTM A182 F316	ASTM A182 F51
6	Body	ASTM A216 WCB+Cr13	ASTM A351 CF8M	ASTM A890 4A
7	Multi-layer sealing ring	ASTM A182 F304+Graphite	ASTM A182	ASTM A182 F51+PTFE
8	Seat protection ring	ASTM A105	ASTM A182 F316	ASTM A182 F51
9	Disc	ASTM A216 WCB	ASTM A351 CF8M	ASTM A890 4A
10	Stem	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
11	Dowel pin	ASTM A276 420	ASTM A182 F316	ASTM A182 F51
12	Protection ring hex socket screw	GB70 Gr. 8.8	ASTM F738M A2-70	ASTM F738M A2-70
13	Packing	Graphite	Graphite	Graphite
14	Flange gland	ASTM A216 WCB	ASTM A351 CF8M	ASTM A351 CF8
15	Lower bush	SS304	SS316	SS316
16	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
17	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
18	Bolt	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8
19	Nut	ASTM A194 2H	ASTM A194 8	ASTM A194 8
20	Yoke	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB
21	Worm gear	-----	-----	-----

Dimension list

PN	DN	L	D1	N1-Φ	N2-M	N1+N2	H1	H2	Do
40	200	89	320	8-30	4-27	12	545	260	320
	250	114	385	8-33	4-30	12	625	300	320
	300	114	450	12-33	4-30	16	650	330	350
	350	127	510	12-36	4-33	16	685	360	400
	400	140	585	12-39	4-36	16	755	410	400
	450	152	610	16-39	4-36	20	785	425	450
	500	152	670	16-42	4-39	20	905	455	450
	600	178	795	16-48	4-45	20	1035	535	500