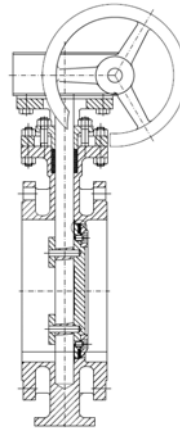


**Design acc. : EN 593 .**  
**Face to face : EN 558 .**  
**Flange end : EN1092 .**  
**Pressure test : ISO 5208 .**  
**Body : WCB/CF8M/4A**

**FIG : 922****Page 1 - 7**

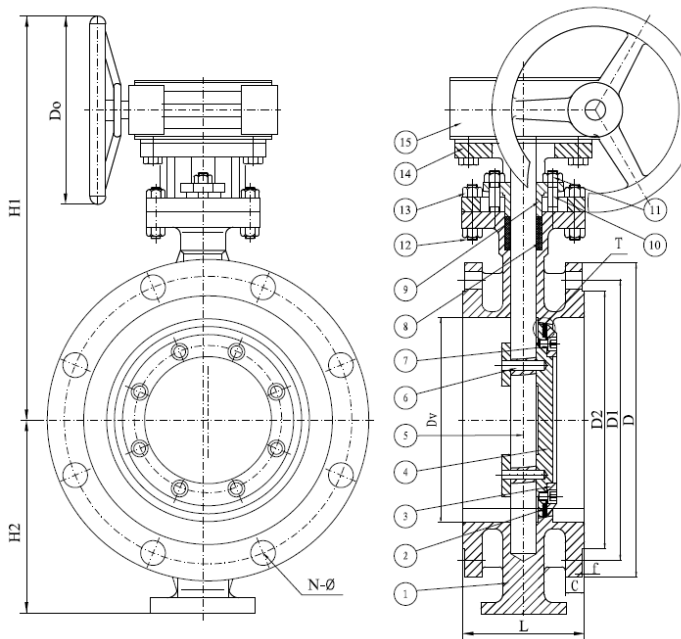
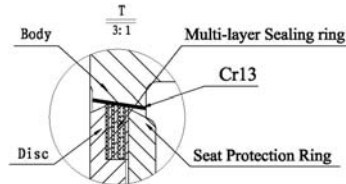


FIG.	Pressure	Material	Range
132.922	PN10	WCB	DN50-DN80
133.922	PN16	WCB	DN50-DN80
134.922	PN25	WCB	DN50-DN80
135.922	PN40	WCB	DN50-DN80
152.922	PN10	CF8M	DN50-DN80
153.922	PN16	CF8M	DN50-DN80
154.922	PN25	CF8M	DN50-DN80
155.922	PN40	CF8M	DN50-DN80
162.922	PN10	4A	DN50-DN80
163.922	PN16	4A	DN50-DN80
164.922	PN25	4A	DN50-DN80
165.922	PN40	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. 132/133/134/135.922	FIG. 152/153/154/155.922	FIG. 162/163/164/165.922
1	Body	ASTM A216 WCB+Cr13	ASTM A351 CF8M	ASTM A890 4A
2	Multi-layer sealing ring	ASTM A182 F304+Graphite	ASTM A182	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	D	D1	D2	C	f	N-Φ	H1	H2	D0
10	50	108	60	165	125	102	18	2	4-18	300	105	160
	65	112	75	185	145	122	18	2	8-18	310	120	160
	80	114	90	200	160	138	20	2	8-18	320	130	160
16	50	108	60	165	125	102	18	2	4-18	310	110	160
	65	112	75	185	145	122	18	2	8-18	315	120	160
	80	114	90	200	160	138	20	2	8-18	335	130	160
25	50	108	60	165	125	102	20	2	4-18	310	160	160
	65	112	75	185	145	122	22	2	8-18	320	180	160
	80	114	90	200	160	138	24	2	8-18	335	195	160
40	50	150	60	165	125	102	20	2	4-18	375	115	160
	65	170	75	185	145	122	22	2	8-18	390	125	160
	80	180	90	200	160	138	24	2	8-18	405	135	230

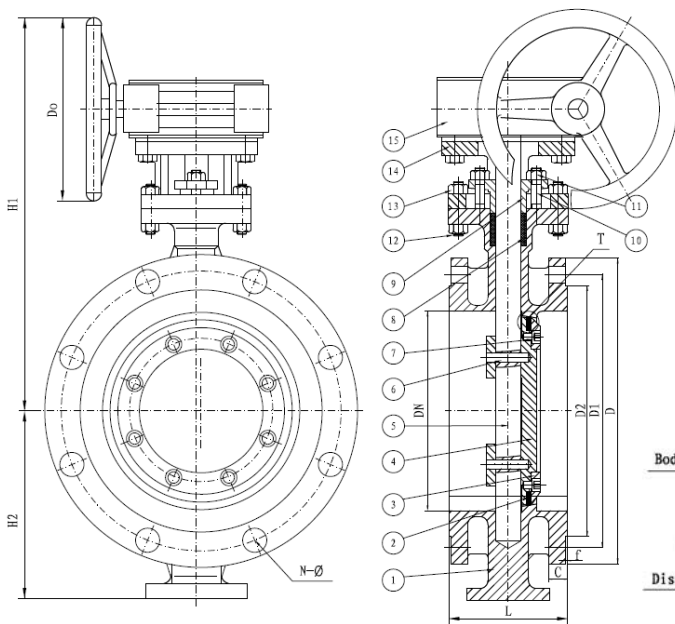


FIG.	Pressure	Material	Range
132.922	PN10	WCB	DN100-DN150
133.922	PN16	WCB	DN100-DN150
134.922	PN25	WCB	DN100-DN150
135.922	PN40	WCB	DN100-DN125
152.922	PN10	CF8M	DN100-DN150
153.922	PN16	CF8M	DN100-DN150
154.922	PN25	CF8M	DN100-DN150
155.922	PN40	CF8M	DN100-DN125
162.922	PN10	4A	DN100-DN150
163.922	PN16	4A	DN100-DN150
164.922	PN25	4A	DN100-DN150
165.922	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. 132/133/134/135.922	FIG. 152/153/154/155.922	FIG. 162/163/164/165.922
1	Body	ASTM A216 WCB+Cr13	ASTM A351 CF8M	ASTM A890 4A
2	Multi-layer sealing ring	ASTM A182 F304+Graphite	ASTM A182	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	D	D1	D2	C	f	N-Φ	H1	H2	D <sub>o</sub>
10	100	127	220	180	158	20	2	8-18	330	145	160
	125	140	250	210	188	22	2	8-18	445	165	230
	150	140	285	240	212	22	2	8-22	465	175	230
16	100	127	220	180	158	20	2	8-18	340	150	160
	125	140	250	210	188	22	2	8-18	450	170	230
	150	140	285	240	212	22	2	8-22	470	185	230
25	100	127	235	190	162	24	2	8-22	365	160	160
	125	140	270	220	188	26	2	8-26	460	180	230
	150	140	300	250	218	28	2	8-26	485	195	230
40	100	190	235	190	162	24	2	8-22	375	170	230
	125	200	270	220	188	26	2	8-26	470	185	230

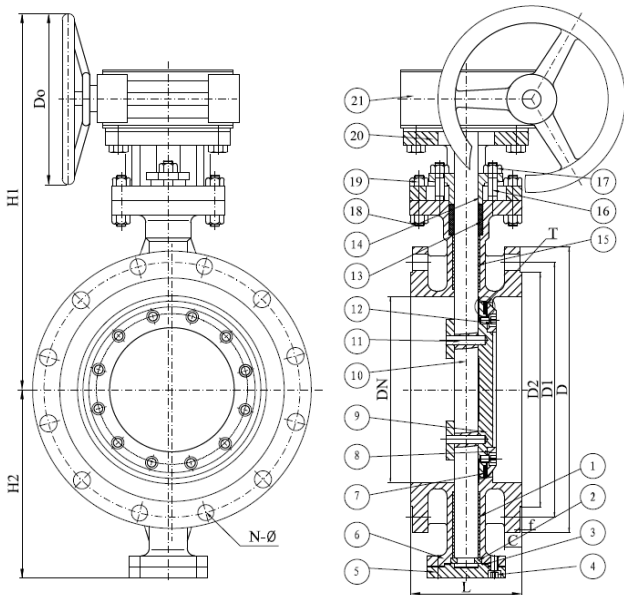
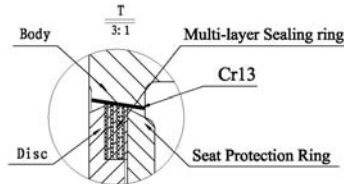


FIG.	Pressure	Material	Range
132.922	PN10	WCB	DN200-DN1200
152.922	PN10	CF8M	DN200-DN1200
162.922	PN10	4A	DN200-DN1200



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

Material list

NO.	Part	Material		
		FIG. 132.922	FIG. 152.922	FIG. 162.922
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	D	D1	D2	C	f	N-Φ	H1	H2	Do
10	200	152	340	295	266	24	2	8-22	495	230	230
	250	165	395	350	319	26	2	12-22	535	270	250
	300	178	445	400	370	26	2	12-22	620	310	300
	350	190	505	460	429	26	2	16-22	620	345	300
	400	216	565	515	480	26	2	16-26	700	370	320
	450	222	615	565	532	28	2	20-26	735	405	320
	500	229	670	620	585	28	2	20-26	800	440	350
	600	267	780	725	685	34	2	20-30	860	495	350
	700	292	895	840	800	34	2	24-30	980	530	400
	800	318	1015	950	905	36	2	24-33	1070	585	400
	900	330	1115	1050	1005	38	2	28-33	1200	635	450
	1000	410	1230	1160	1110	38	2	28-36	1330	715	500
1200	470	1455	1380	1330	44	2	32-39	1420	815	500	

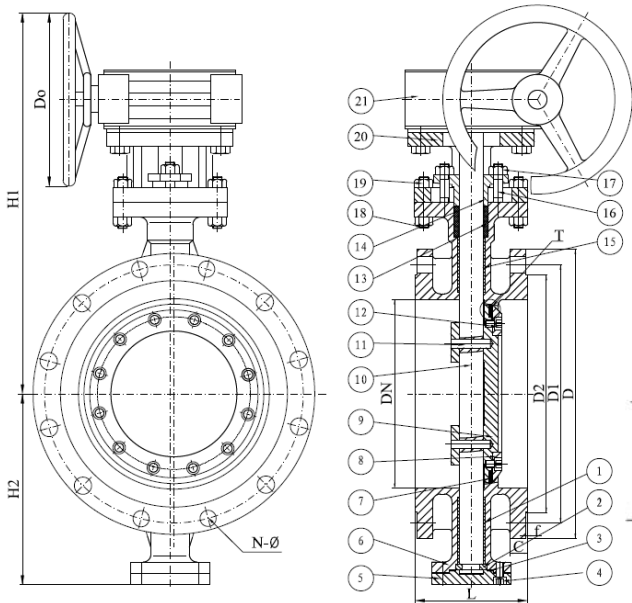
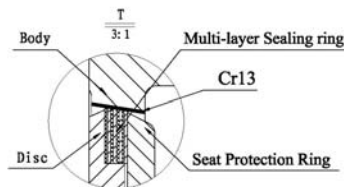


FIG.	Pressure	Material	Range
133.922	PN16	WCB	DN200-DN400
135.922	PN40	WCB	DN150
153.922	PN16	CF8M	DN200-DN400
155.922	PN40	CF8M	DN150
163.922	PN16	4A	DN200-DN400
165.922	PN40	4A	DN150



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

**Material list**

NO.	Part	Material		
		FIG. 133.922 / 135.922	FIG. 153.922 / 155.922	FIG. 163.922 / 165.922
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	D	D1	D2	C	f	N-Φ	H1	H2	Do
16	200	152	340	295	268	24	2	12-22	515	230	250
	250	165	405	355	320	26	2	12-26	550	275	280
	300	178	460	410	378	28	2	12-26	640	310	320
	350	190	520	470	428	30	2	16-26	670	350	320
	400	216	580	525	490	32	2	16-30	730	375	320
40	150	210	300	250	218	28	2	8-26	485	215	250

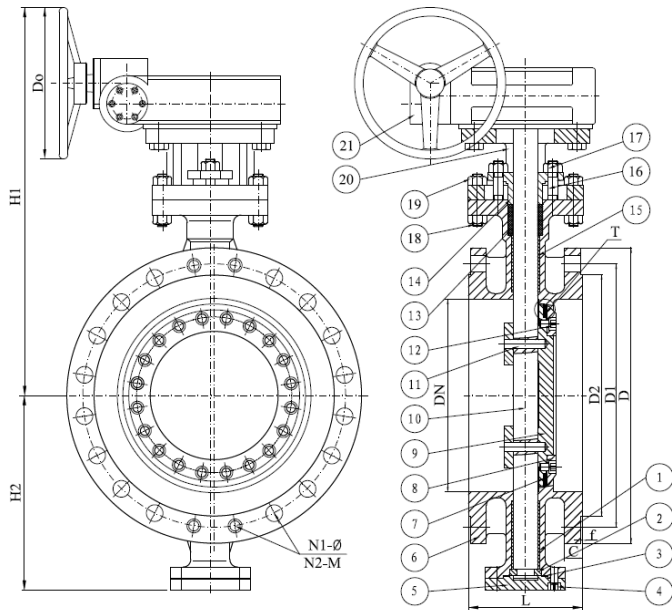
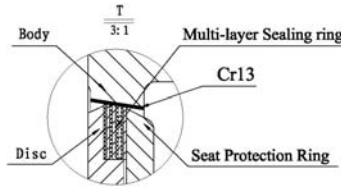


FIG.	Pressure	Material	Range
133.922	PN16	WCB	DN450-DN1200
153.922	PN16	CF8M	DN450-DN1200
163.922	PN16	4A	DN450-DN1200



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

Material list

NO.	Part	Material		
		FIG. 133.922	FIG. 153.922	FIG. 163.922
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	D	D1	D2	C	f	N1-Φ	N2-M	N1+N2	H1	H2	D0
16	450	222	640	585	550	40	2	16-30	4-27	20	780	405	320
	500	229	715	650	610	44	2	16-33	4-30	20	840	440	350
	600	267	840	770	725	54	2	16-36	4-33	20	900	495	350
	700	292	910	840	795	42	2	20-36	4-33	24	940	530	450
	800	318	1025	950	900	42	2	20-39	4-36	24	1035	585	450
	900	330	1125	1050	1000	44	2	24-39	4-36	28	1130	635	500
	1000	410	1255	1170	1115	46	2	24-42	4-39	28	1220	715	500
	1200	470	1485	1390	1330	52	2	28-48	4-45	32	1295	815	500

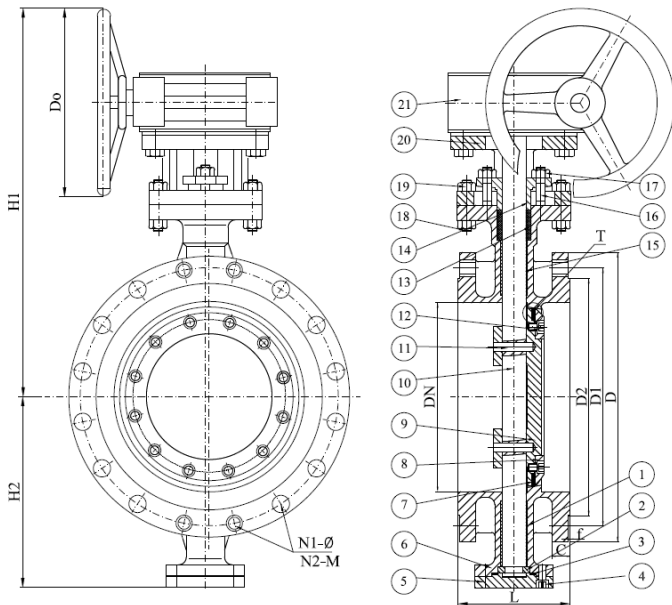
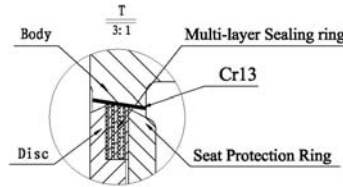


FIG.	Pressure	Material	Range
134.922	PN25	WCB	DN200-DN1200
154.922	PN25	CF8M	DN200-DN1200
164.922	PN25	4A	DN200-DN1200



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

Material list

NO.	Part	Material		
		FIG. 134.922	FIG. 154.922	FIG. 164.922
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	D	D1	D2	C	f	N1-Φ	N2-M	N1+N2	H1	H2	D <sub>0</sub>
25	200	152	360	310	278	30	2	8-26	4-24	12	525	245	280
	250	165	425	370	335	32	2	8-30	4-27	12	585	275	320
	300	178	485	430	395	34	2	12-30	4-27	16	635	310	320
	350	190	555	490	450	38	2	12-33	4-30	16	680	350	320
	400	216	620	550	505	40	2	12-36	4-33	16	745	405	350
	450	222	670	600	555	46	2	16-36	4-33	20	775	415	350
	500	229	730	660	615	48	2	16-36	4-33	20	820	450	400
	600	267	845	770	720	58	2	16-39	4-36	20	880	505	400
	700	292	960	875	820	50	2	20-42	4-39	24	990	530	450
	800	318	1085	990	930	54	2	20-48	4-45	24	1080	585	450
	900	330	1185	1090	1030	58	2	24-48	4-45	28	1210	635	500
	1000	410	1320	1210	1140	62	2	24-56	4-52	28	1300	715	500
1200	470	1530	1420	1350	70	2	28-56	4-52	32	1435	815	500	

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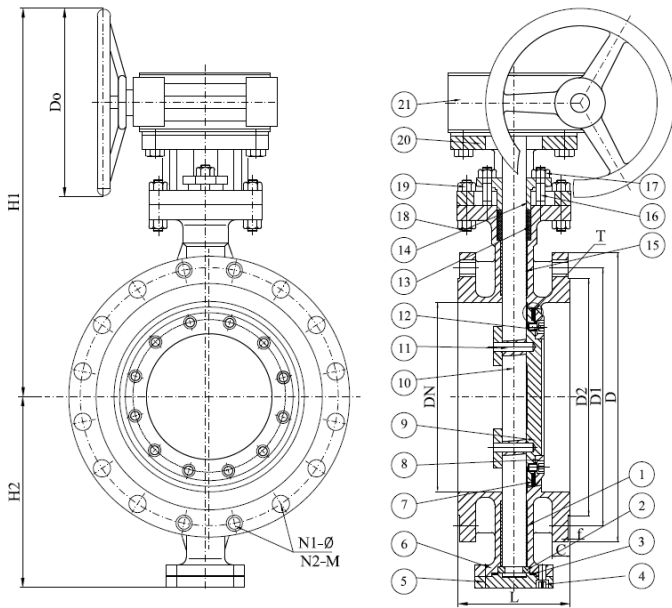
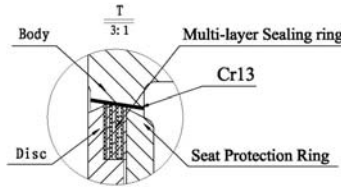


FIG.	Pressure	Material	Range
135.922	PN40	WCB	DN200-DN600
155.922	PN40	CF8M	DN200-DN600
165.922	PN40	4A	DN200-DN600



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

Material list

NO.	Part	Material		
		FIG. 135.922	FIG. 155.922	FIG. 165.922
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	D	D1	D2	C	f	N1-Φ	N2-M	N1+N2	H1	H2	Do
40	200	230	375	320	285	34	2	8-30	4-27	12	565	255	320
	250	250	450	385	345	38	2	8-33	4-30	12	655	285	320
	300	270	515	450	410	42	2	12-33	4-30	16	670	335	350
	350	290	580	510	465	46	2	12-36	4-33	16	715	355	400
	400	310	660	585	535	50	2	12-39	4-36	16	775	405	400
	450	330	685	610	560	57	2	16-39	4-36	20	805	410	450
	500	350	755	670	615	57	2	16-42	4-39	20	895	445	450
	600	390	890	795	735	72	2	16-48	4-45	20	1000	525	500