

WAFER TYPE, BUTTERFLY VALVE

Model : Series 81-W Butterfly Valve

WAFER TYPE, BUTTERFLY VALVE

FLUID APPLICATION: WATER, SEAWATER, AIR,
OIL, POWDER, GAS ETC.

FACE-TO-FACE ACC. TO ISO 5752 SHORT PATTERN ACTUATOR

MOUNTING PAD FLANGE ACC. TO ISO 5211

FLANGE REQUIREMENTS:

ANSI 125/150, BS 10 TABLE E, JIS 2213 10K, DIN PN10/ PN16

RATING:

1-1/2"~ 12" (DN40~DN300): 16 BAR (228PSI)

14"~24" (DN350~DN600): 10 BAR (150PSI)

SIZE RANGE: 1-1/2"-36"



Materials List:

NO.	NAME	MATERIALS	SPECIFICATION		REMARK
			JIS	ASTM	
1	BODY	Cast Iron	FC 20	A126-B	
		DUCTILE IRON	FCD 450	A-536-65-45-12	
		Stainless Steel	SCS13	A351 CF8	
SCS14	A351 CF8M				
2	DISC	DUCTILE IRON	FCD 45	A-536-65-45-12	Nylon 11 Coating
		STAINLESS STEEL	SCS 13	A351 CF8	
			SCS 14	A351 CF8M	
	ALU-BRONZE	ALBC2	B148-954		
3	STEM	STAINLESS STEEL	SUS 410	A182 F6A	
			SUS 304	A182 F304	
			SUS 316	A182 F316	
4	SEAT	NBR (NITRILE)			-10°C ~ 80°C (14°F ~
		EPDM			-20°C ~ 120°C (-4°F ~
		NEOPRENE (CR)			0°C ~ 80°C (32°F ~
		SILICON			-20°C ~ 180°C (-4°F ~
		HYPALON (CSM)			-20°C ~ 135°C (-4°F ~
		VITON			-18°C ~ 204°C (-4°F ~
5	STOP PIN	STAINLESS STEEL	SUS 316	A182 F316	
6	UPPER BUSH	DELIN			
7	O-RING	NBR (NITRILE)			
8	BACK-UP RING	PLASTIC			
9	BOTTOM BUSH	BRONZE	BC6	ASTM B62	
10	LEVER	DUCTILE IRON	FCD 450	A-536-65-45-12	
11	GEAR BOX	Cast Iron	FC 20	A126-B	

* NBR SEAT APPLICABLE RANGE -10°C ~ 80°C, WHILE

* EPDM SEAT IN -20°C ~ 120°C.

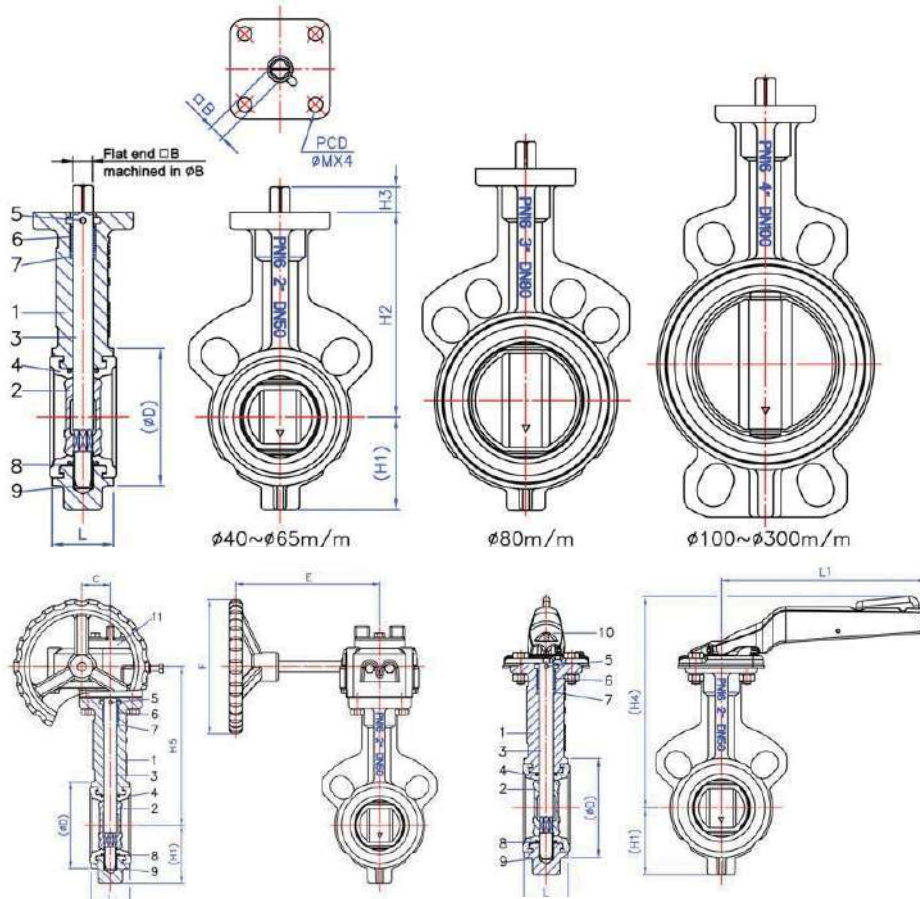
* UPPER BUSHING, MADE BY NON-CORROSSIVE HEAVY DUTY DELIN, STRONGE ENOUGH TO ABSORB THRUST.

* STEM, DESIGNED WITH SQUARE CONNECTION TO DRIVE DISC, ARE RETAINED IN THE BODY AND ANTI-FULL-OUT PROVED BY MEANS OF PATENT "Q" TYPE MECHANISM. WITH THE PATENT MECHANISM THE VALVE CAN BE DISASSAMBLD COMPLETELY BY USE A SIMPLE SCREW DRIVER.

* WARM GEAR, ELECTRIC ACTUATOR, PNEUMATIC ACTUATOR OPERATED BUTTERFLY VALVES ARE AVAILABLE AS REQUESTED.

WAFER TYPE, BUTTERFLY VALVE

Model : Series 81-W Butterfly Valve



Dimension List:

Size		L	H1	H2	D	H3	□B	ϕ B	L1	H4	C	E	F	H5	PCD	ISO 5211	Weight Kg
INCH	MM																
1-1/2	40	33	60	120	81	19	11	14	200	181	41	155	150	157	70	F07	2
2	50	43	65	143	96	19	11	14	200	204	41	155	150	180	70	F07	3
2-1/2	65	46	71	155	110	19	11	14	200	216	41	155	150	192	70	F07	3.8
3	80	46	77	162	124	19	11	14	200	223	41	155	150	199	70	F07	4
4	100	52	107	181	148	19	11	14	200	242	41	155	150	218	70	F07	5.3
5	125	56	122	197	180	19	14	19	250	258	41	155	150	234	70	F07	7.3
6	150	56	140	210	206	19	14	19	250	271	41	155	150	247	70	F07	8.2
8	200	60	165	240	259	24	17	22	355	308	61	195	200	281.5	102	F10	13.5
10	250	68	201	286	320	24	19	25	355	354	61	195	200	327.5	102	F10	21.2
12	300	78	234	309	370	24	22	30	355	377	61	195	200	350.5	102	F10	32.5
14	350	78	301.5	329	412	29	27	35			61	232	310	370	125	F12	48
16	400	102	333.5	361	475	29	32	42			61	232	310	402	125	F12	60
18	450	114	358.5	393	530	38	32	45			81	235	450	445	140	F14	80
20	500	127	392.5	427	585	38	36	50			81	235	450	479	140	F14	125
24	600	154	454.5	492	687	48	46	60			123	307	400	548	165	F16	200
28	700	165	508	533	796	110		70			160	370	400	678	254	F25	395
30	750	190	543	568	856	110		75			160	370	400	713	254	F25	490
32	800	190	574	599	903	110		75			160	370	400	744	254	F25	580
36	900	203	632	660	1003	110		85			160	370	400	805	254	F25	730

We hereby reserve the rights of any alternative dimension that would help to improve our valve's quality and working efficiency

Concentric Butterfly Valve to DIN/EN Wafer Type

PN10, DN40 ~ DN300

Series 81W(E)-PN10

Features

- Suitable for use in HVAC, irrigation, industrial applications where positive shutoff is required
- Single through-put shaft provides most economical pricing
- 10 position lever or gear operation
- Alloy material available on request

PMA: See Table A

TMA: See Table B

Selection:

Material of Body:
CF8M/CF8/CI/DI

Standards

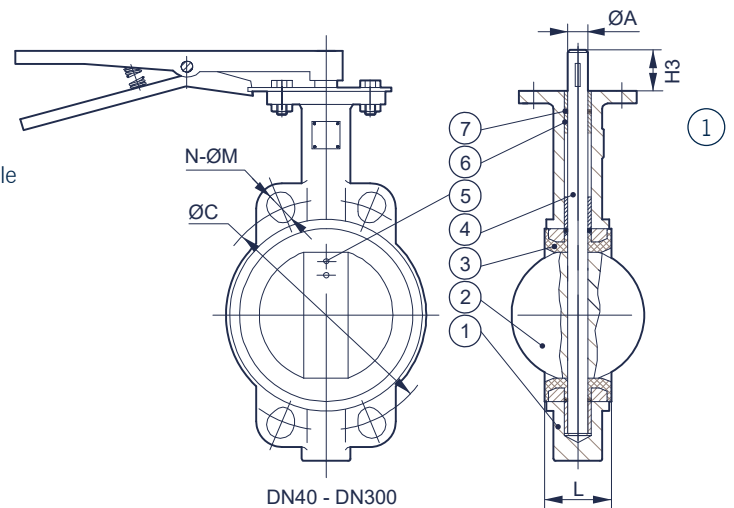
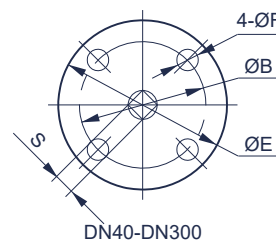
- End dimensions acc. to DIN2633
- Inspection & test acc. to EN12266

Limitation

- Do not use EPDM when hydrocarbons are present.
- Kindly anticipate increased torque for PTFE coated disc + PTFE seat option; gear operation recommended for sizes $\geq 4"$.

Options

- Double "half pin" style available for increased performance and lifecycle
- Coated disc available in: rubber, PTFE, nylon



Materials List		
NO	PARTS NAME	MATERIAL
1	BODY	CF8M / CF8 / CI / DI
2	DISC*	CF8M / CF8 / CI / DI
3	SEAT	NBR / EPDM / VITON
4	STEM	SS410
5	TAPER PIN	SS
6	BUSHING	PTFE
7	O-RING	EPDM

*Coated disc option available.
Enclosed a condensed table, for complete options, contact KLINGER directly.

Dimensions (mm)

Size		H1	H2	H3	L	ØD	ØC	N-ØM	ØA	ØE	ØB	ØF	S
IN	DN												
1½"	40	70	110	32	35	42.4	110	4-Ø18	12.7	92	70	9	9
2"	50	76	162	32	45	52.9	125	4-Ø18	12.7	92	70	9	9
2½"	65	89	175	32	48	64.6	145	4-Ø18	12.7	92	70	9	9
3"	80	95	181	32	49	79	160	4-Ø18	12.7	92	70	9	9
4"	100	114	200	32	55	104.4	180	8-Ø18	15.8	92	70	9	11
5"	125	127	213	32	58	129.5	210	8-Ø18	19	92	70	9	14
6"	150	140	225	32	59	155.8	240	8-Ø23	19	92	70	9	14
8"	200	177	260	36	64	202.7	295	8-Ø23	22.2	125	102	11	17
10"	250	203	292	36	70	250.7	350	12-Ø23	28.6	125	102	11	22
12"	300	242	337	36	80	301.9	400	12-Ø23	31.8	150	120	13	22

SIZE	RUBBER SEAT	PTFE SEAT	PTFE SEAT+ PTFE COATED DISC
≤DN150 (6")	13.7 bar (200psi)	13.7 bar (200psi)	10.3 bar (150 psi)
DN200 (8")	13.7 bar (200psi)	10.3 bar (150 psi)	10.3 bar (150 psi)
DN250 (10")~DN300 (12")	13.7 bar (200psi)	10.3 bar (150 psi)	6.9 bar (100 psi)
DN350 (14")~DN600 (24")	10.3 bar (150 psi)	6.9 bar (100 psi)	6.9 bar (100 psi)
≥DN600 (24")	6.9 bar (100 psi)	-	-
Gear Operation Recommendation	≥ 300	≥ DN150	≥ 100

SEAT	APPLICABLE TEMPERATURE
NBR	-20°C to +80°C (-4°F to 176°F)
EPDM	-20°C to +120°C (-4°F to 248°F)
VITON	-10°C to +200°C (+14°F to 392°F)
PTFE	-20°C to +150°C (-4°F to 302°F)

Concentric Butterfly Valve to DIN/EN Wafer Type

PN10, DN350 ~ DN1200

Series 81W(E)-PN10

Features

- Suitable for use in HVAC, irrigation, industrial applications where positive shutoff is required
- Single through-put shaft provides most economical pricing
- 10 position lever or gear operation
- Alloy material available on request

PMA: See Table A

TMA: See Table B

Selection:

Material of Body:
CF8M/CF8/CI/DI

Standards

- End dimensions acc. to DIN2633
- Inspection & test acc. to EN12266

Limitation

- Do not use EPDM when hydrocarbons are present.
- Kindly anticipate increased torque for PTFE coated disc + PTFE seat option; gear operation recommended for sizes $\geq 4"$.

② Options

- Double "half pin" style available for increased performance and lifecycle
- Coated disc available in: rubber, PTFE, nylon

Materials List		
NO	PARTS NAME	MATERIAL
1	BODY	CF8M / CF8 / CI / DI
2	DISC*	CF8M / CF8 / CI / DI
3	SEAT	NBR / EPDM / VITON
4	STEM	SS410
5	TAPER PIN	SS
6	BUSHING	PTFE
7	O-RING	EPDM

*Coated disc option available.
Enclosed a condensed table, for complete options, contact KLINGER directly.

Dimensions (mm)

Size		H1	H2	H3	L	ØD	ØC	N-ØM	ØA	ØE	ØB	ØF	S
IN	DN												
14"	350	267	368	45	80	333.3	460	16-Ø23	31.8	150	120	13	22
16"	400	298	400	51	90	389.6	515	16-Ø27	33.3	210	165	22	22
18"	450	318	422	51	109	439.9	565	20-Ø27	38	210	165	22	27
20"	500	349	479	64	135	491.6	620	20-Ø27	41	210	165	22	27
24"	600	410	562	70	156	592.3	725	20-Ø30	50	300	254	18	36
28"	700	520	624	72	169	694.1	840	24-Ø30	55	300	254	18	40
30"	750	516	624	72	175	744.2	-	-	55	300	254	18	40
32"	800	591	672	83	195	794.2	950	24-Ø33	55	300	254	18	40
36"	900	611	768	77	211	863.4	1050	28-Ø33	74	300	254	18	53
40"	1000	665	823	85	229	963.4	1160	28-Ø36	84	300	254	18	60
48"	1200	955	880	206	249	1185	1380	32-Ø39	92	350	298	22	60

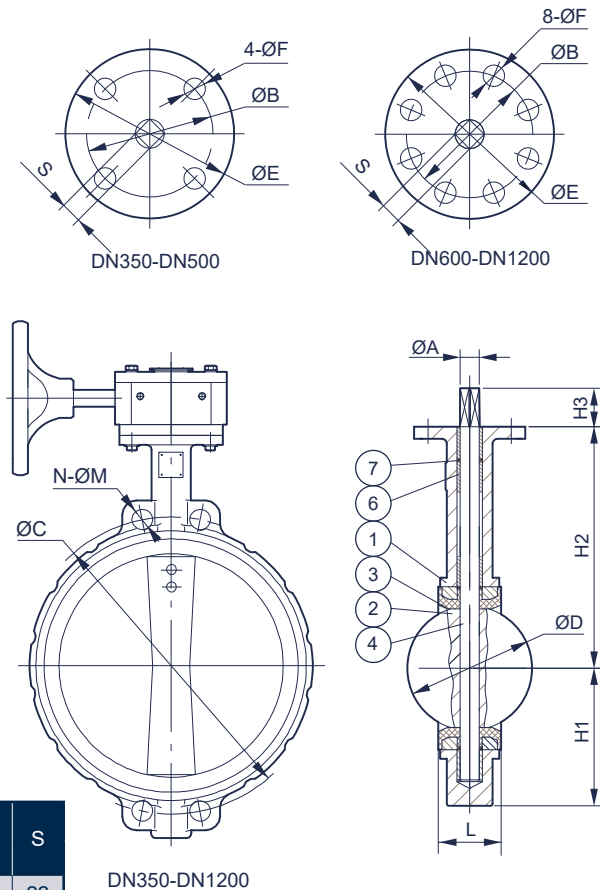


Table B: Temperature Rating	
SEAT	APPLICABLE TEMPERATURE
NBR	-20°C to +80°C (-4°F to 176°F)
EPDM	-20°C to +120°C (-4°F to 248°F)
VITON	-10°C to +200°C (+14°F to 392°F)
PTFE	-20°C to +150°C (-4°F to 302°F)

Concentric Butterfly Valve to DIN/EN Wafer Type

PN16, DN40 ~ DN300

Series 81W(E)-PN16

Features

- Suitable for use in HVAC, irrigation, industrial applications where positive shutoff is required
- Single through-put shaft provides most economical pricing
- 10 position lever or gear operation
- Alloy material available on request

PMA: See Table A

TMA: See Table B

Selection:

Material of Body:
CF8M/CF8/CI/DI

Standards

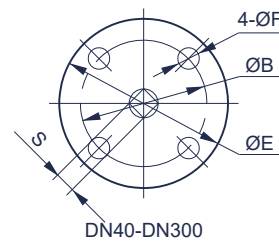
- End dimensions acc. to DIN2633
- Inspection & test acc. to EN12266

Limitation

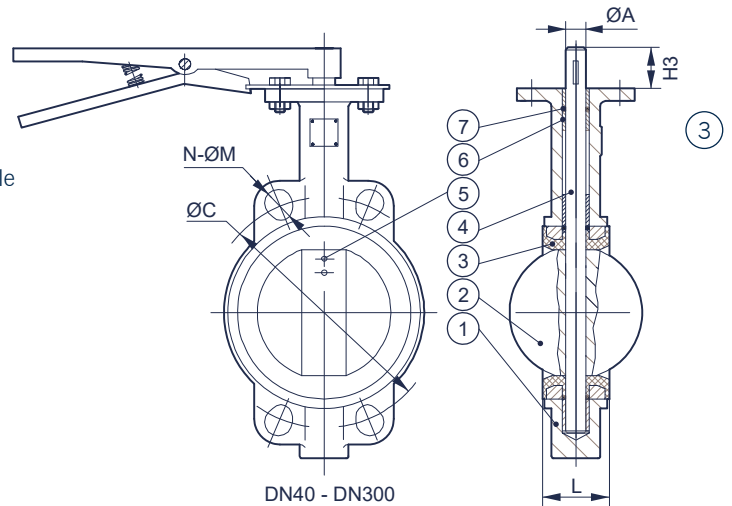
- Do not use EPDM when hydrocarbons are present.
- Kindly anticipate increased torque for PTFE coated disc + PTFE seat option; gear operation recommended for sizes $\geq 4"$.

Options

- Double "half pin" style available for increased performance and lifecycle
- Coated disc available in: rubber, PTFE, nylon



DN40-DN300



DN40 - DN300

Materials List

NO	PARTS NAME	MATERIAL
1	BODY	CF8M / CF8 / CI / DI
2	DISC*	CF8M / CF8 / CI / DI
3	SEAT	NBR / EPDM / VITON
4	STEM	SS410
5	TAPER PIN	SS
6	BUSHING	PTFE
7	O-RING	EPDM

*Coated disc option available.

Enclosed a condensed table, for complete options, contact KLINGER directly.

Dimensions (mm)

Size		H1	H2	H3	L	ØD	ØC	N-ØM	ØA	ØE	ØB	ØF	S
IN	DN												
1½"	40	70	110	32	35	42.4	110	4-Ø18	12.7	92	70	9	9
2"	50	76	162	32	45	52.9	125	4-Ø18	12.7	92	70	9	9
2½"	65	89	175	32	48	64.6	145	4-Ø18	12.7	92	70	9	9
3"	80	95	181	32	49	79	160	4-Ø18	12.7	92	70	9	9
4"	100	114	200	32	55	104.4	180	8-Ø18	15.8	92	70	9	11
5"	125	127	213	32	58	129.5	210	8-Ø18	19	92	70	9	14
6"	150	140	225	32	59	155.8	240	8-Ø18	19	92	70	9	14
8"	200	177	260	36	64	202.7	295	12-Ø23	22.2	125	102	11	17
10"	250	203	292	36	70	250.7	355	12-Ø27	28.6	125	102	11	22
12"	300	242	337	36	80	301.9	410	12-Ø27	31.8	150	120	13	22

Table A: Maximum Pressure Rating

SIZE	RUBBER SEAT	PTFE SEAT	PTFE SEAT+ PTFE COATED DISC
\leq DN150 (6")	13.7 bar (200psi)	13.7 bar (200psi)	10.3 bar (150 psi)
DN200 (8")	13.7 bar (200psi)	10.3 bar (150 psi)	10.3 bar (150 psi)
DN250 (10")~DN300 (12")	13.7 bar (200psi)	10.3 bar (150 psi)	6.9 bar (100 psi)
DN350 (14")~DN600 (24")	10.3 bar (150 psi)	6.9 bar (100 psi)	6.9 bar (100 psi)
\geq DN600 (24")	6.9 bar (100 psi)	-	-
Gear Operation Recommendation	≥ 300	\geq DN150	≥ 100

Table B: Temperature Rating

SEAT	APPLICABLE TEMPERATURE
NBR	-20°C to +80°C (-4°F to 176°F)
EPDM	-20°C to +120°C (-4°F to 248°F)
VITON	-10°C to +200°C (+14°F to 392°F)
PTFE	-20°C to +150°C (-4°F to 302°F)

Concentric Butterfly Valve to DIN/EN Wafer Type

PN16, DN350 ~ DN1200

Series 81W(E)-PN16

Features

- Suitable for use in HVAC, irrigation, industrial applications where positive shutoff is required
- Single through-put shaft provides most economical pricing
- 10 position lever or gear operation
- Alloy material available on request

PMA: See Table A

TMA: See Table B

Selection:

Material of Body:
CF8M/CF8/CI/DI

Standards

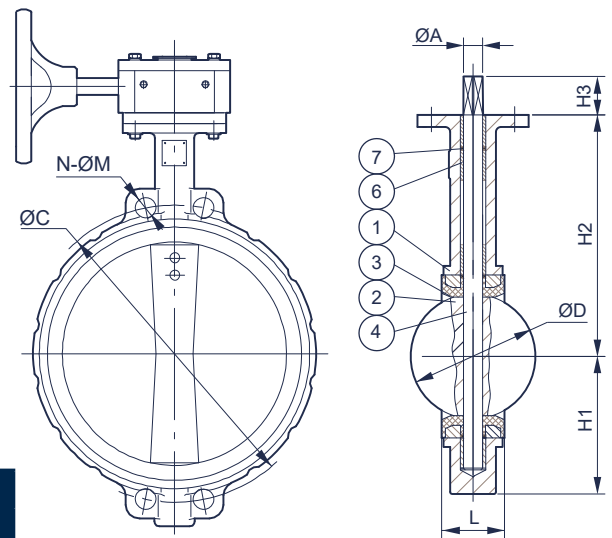
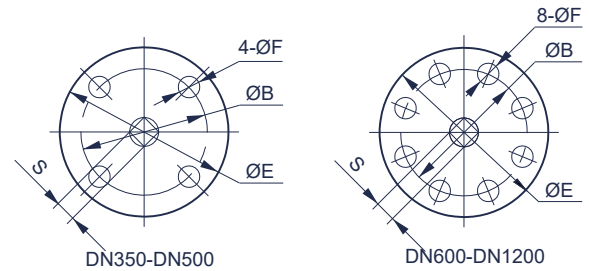
- End dimensions acc. to DIN2633
- Inspection & test acc. to EN12266

Limitation

- Do not use EPDM when hydrocarbons are present.
- Kindly anticipate increased torque for PTFE coated disc + PTFE seat option; gear operation recommended for sizes $\geq 4"$.

4 Options

- Double "half pin" style available for increased performance and lifecycle
- Coated disc available in: rubber, PTFE, nylon



DN350-DN1200

Materials List		
NO	PARTS NAME	MATERIAL
1	BODY	CF8M / CF8 / CI / DI
2	DISC*	CF8M / CF8 / CI / DI
3	SEAT	NBR / EPDM / VITON
4	STEM	SS410
5	TAPER PIN	SS
6	BUSHING	PTFE
7	O-RING	EPDM

*Coated disc option available.
Enclosed a condensed table, for complete options, contact KLINGER directly.

Dimensions (mm)

Size		H1	H2	H3	L	ØD	ØC	N-ØM	ØA	ØE	ØB	ØF	S
IN	DN												
14"	350	267	368	45	80	333.3	470	16-Ø27	31.8	150	120	13	22
16"	400	298	400	51	90	389.6	525	16-Ø30	33.3	210	165	22	22
18"	450	318	422	51	109	439.9	585	20-Ø30	38	210	165	22	27
20"	500	349	479	64	135	491.6	650	20-Ø33	41	210	165	22	27
24"	600	410	562	70	156	592.3	770	20-Ø36	50	300	254	18	36
28"	700	520	624	72	169	694.1	840	24-Ø36	55	300	254	18	40
30"	750	516	624	72	175	744.2	-	-	55	300	254	18	40
32"	800	591	672	83	195	794.2	950	24-Ø39	55	300	254	18	40
36"	900	611	768	77	211	863.4	1050	28-Ø39	74	300	254	18	53
40"	1000	665	823	85	229	963.4	1160	28-Ø42	84	300	254	18	60
48"	1200	955	880	206	249	1185	1380	32-Ø39	92	350	298	22	60

Table B: Temperature Rating

SEAT	APPLICABLE TEMPERATURE
NBR	-20°C to +80°C (-4°F to 176°F)
EPDM	-20°C to +120°C (-4°F to 248°F)
VITON	-10°C to +200°C (+14°F to 392°F)
PTFE	-20°C to +150°C (-4°F to 302°F)

Concentric Butterfly Valve to ANSI/ASME Wafer Type

CLASS125/CLASS150. 1½" ~ 12"

Series 81W(E)-CL125/CL150

Features

- Suitable for use in HVAC, irrigation, industrial applications where positive shutoff is required
- Single through-put shaft provides most economical pricing
- 10 position lever or gear operation
- Alloy material available on request

PMA: See Table A

TMA: See Table B

Selection:

Material of Body:
CF8M/CF8/CI/DI

Standards

- End dimensions acc. to DIN2633
- Inspection & test acc. to EN12266

Limitation

- Do not use EPDM when hydrocarbons are present.
- Kindly anticipate increased torque for PTFE coated disc + PTFE seat option; gear operation recommended for sizes $\geq 4"$.

Options

- Double "half pin" style available for increased performance and lifecycle
- Coated disc available in: rubber, PTFE, nylon

Materials List

NO	PARTS NAME	MATERIAL
1	BODY	CF8M / CF8 / CI / DI
2	DISC*	CF8M / CF8 / CI / DI
3	SEAT	NBR / EPDM / VITON
4	STEM	SS410
5	TAPER PIN	SS
6	BUSHING	PTFE
7	O-RING	EPDM

*Coated disc option available.

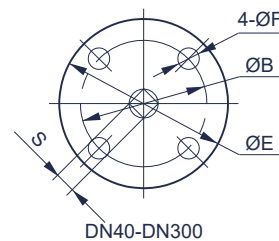
Enclosed a condensed table, for complete options, contact DIE ERSTE directly.

Dimensions (mm)

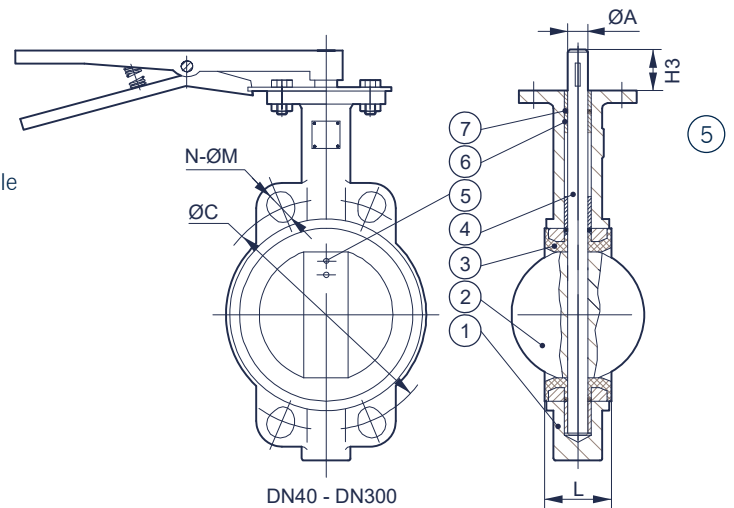
Size		H1	H2	H3	L	ØD	ØC	N-ØM	ØA	ØE	ØB	ØF	S	Weight kg
IN	DN													
1½"	40	70	110	32	35	42.4	99	4-Ø16	12.7	92	70	9	9	-
2"	50	76	162	32	45	52.9	121	4-Ø19	12.7	92	70	9	9	3.7
2½"	65	89	175	32	48	64.6	140	4-Ø19	12.7	92	70	9	9	4.4
3"	80	95	181	32	49	79	152	4-Ø19	12.7	92	70	9	9	4.9
4"	100	114	200	32	55	104.4	191	8-Ø19	15.8	92	70	9	11	6.5
5"	125	127	213	32	58	129.5	216	8-Ø22	19	92	70	9	14	7.8
6"	150	140	225	32	59	155.8	241	8-Ø22	19	92	70	9	14	9.2
8"	200	177	260	36	64	202.7	298	8-Ø22	22.2	125	102	11	17	14.7
10"	250	203	292	36	70	250.7	362	12-Ø25	28.6	125	102	11	22	21.2
12"	300	242	337	36	80	301.9	432	12-Ø25	31.8	150	120	13	22	46

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DN40-DN300



DN40 - DN300

Table A: Maximum Pressure Rating

SIZE	RUBBER SEAT	PTFE SEAT	PTFE SEAT+ PTFE COATED DISC
≤DN150 (6")	13.7 bar (200psi)	13.7 bar (200psi)	10.3 bar (150 psi)
DN200 (8")	13.7 bar (200psi)	10.3 bar (150 psi)	10.3 bar (150 psi)
DN250 (10")~ DN300 (12")	13.7 bar (200psi)	10.3 bar (150 psi)	6.9 bar (100 psi)
DN350 (14")~ DN600 (24")	10.3 bar (150 psi)	6.9 bar (100 psi)	6.9 bar (100 psi)
≥DN600 (24")	6.9 bar (100 psi)	-	-
Gear Operation Recommendation	≥ 300	≥ DN150	≥ 100

Table B: Temperature Rating

SEAT	APPLICABLE TEMPERATURE
NBR	-4°F to 176°F (-20°C to +80°C)
EPDM	-4°F to 248°F (-20°C to +120°C)
VITON	+14°F to 392°F (-10°C to +200°C)
PTFE	-4°F to 302°F (-20°C to +150°C)

Concentric Butterfly Valve to ANSI/ASME Wafer Type

CLASS125/CLASS150, 14" ~ 48"

Series 81W(E)-CL125/CL150

Features

- Suitable for use in HVAC, irrigation, industrial applications where positive shutoff is required
- Single through-put shaft provides most economical pricing
- 10 position lever or gear operation
- Alloy material available on request

PMA: See Table A

TMA: See Table B

Selection:

Material of Body:
CF8M/CF8/CI/DI

Standards

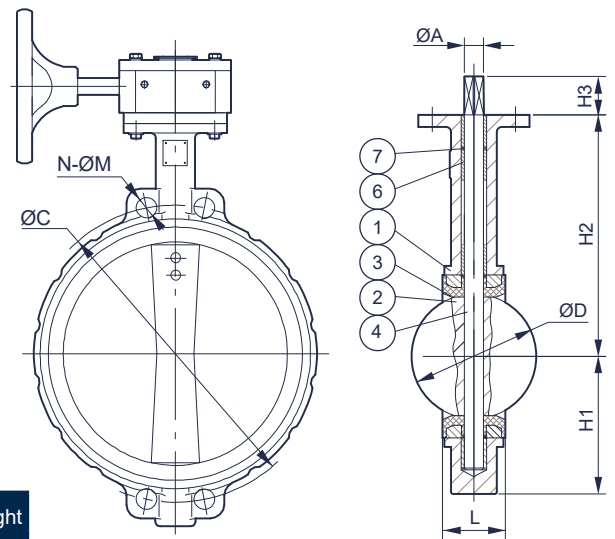
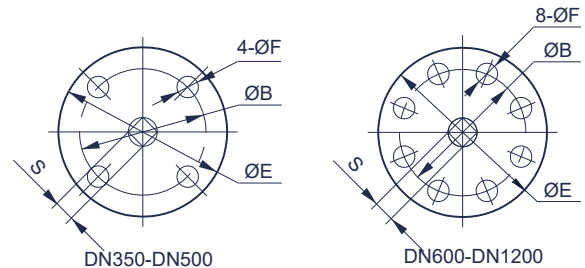
- End dimensions acc. to DIN2633
- Inspection & test acc. to EN12266

Limitation

- Do not use EPDM when hydrocarbons are present.
- Kindly anticipate increased torque for PTFE coated disc + PTFE seat option; gear operation recommended for sizes $\geq 4"$.

6 Options

- Double "half pin" style available for increased performance and lifecycle
- Coated disc available in: rubber, PTFE, nylon



DN350-DN1200

Materials List

NO	PARTS NAME	MATERIAL
1	BODY	CF8M / CF8 / CI / DI
2	DISC*	CF8M / CF8 / CI / DI
3	SEAT	NBR / EPDM / VITON
4	STEM	SS410
5	TAPER PIN	SS
6	BUSHING	PTFE
7	O-RING	EPDM

*Coated disc option available.

Enclosed a condensed table, for complete options, contact DIE ERSTE directly.

Dimensions (mm)

Size		H1	H2	H3	L	ØD	ØC	N-ØM	ØA	ØE	ØB	ØF	S	Weight kg
IN	DN													
14"	350	267	368	45	80	333.3	476	12-Ø29	31.8	150	120	13	22	58.8
16"	400	298	400	51	90	389.6	540	16-Ø29	33.3	210	165	22	22	101.2
18"	450	318	422	51	109	439.9	578	16-Ø32	38	210	165	22	27	117.7
20"	500	349	479	64	135	491.6	635	20-Ø32	41	210	165	22	27	160.1
24"	600	410	562	70	156	592.3	749	20-Ø35	50	300	254	18	36	257.5
28"	700	520	624	72	169	694.1	-	-	55	300	254	18	40	-
30"	750	516	624	72	175	744.2	915	4-1¼"-6	55	300	254	18	40	-
32"	800	591	672	83	195	794.2	978	4-1½"-6	55	300	254	18	40	-
36"	900	611	768	77	211	863.4	1086	4-1½"-6	74	300	254	18	53	-
40"	1000	665	823	85	229	963.4	-	-	84	300	254	18	60	-
48"	1200	955	880	206	249	1185	1423	44-Ø41	92	350	298	22	60	-

Table B: Temperature Rating

SEAT	APPLICABLE TEMPERATURE
NBR	-4°F to 176°F (-20°C to +80°C)
EPDM	-4°F to 248°F (-20°C to +120°C)
VITON	+14°F to 392°F (-10°C to +200°C)
PTFE	-4°F to 302°F (-20°C to +150°C)

Concentric Butterfly Valve to ANSI/ASME Wafer Type

JIS10K, DN40 ~ DN300

Series 81W(E)-JIS10K

Features

- Suitable for use in HVAC, irrigation, industrial applications where positive shutoff is required
- Single through-put shaft provides most economical pricing
- 10 position lever or gear operation
- Alloy material available on request

PMA: See Table A

TMA: See Table B

Selection:

Material of Body:
SCS13/SCS14/CI/DI

Standards

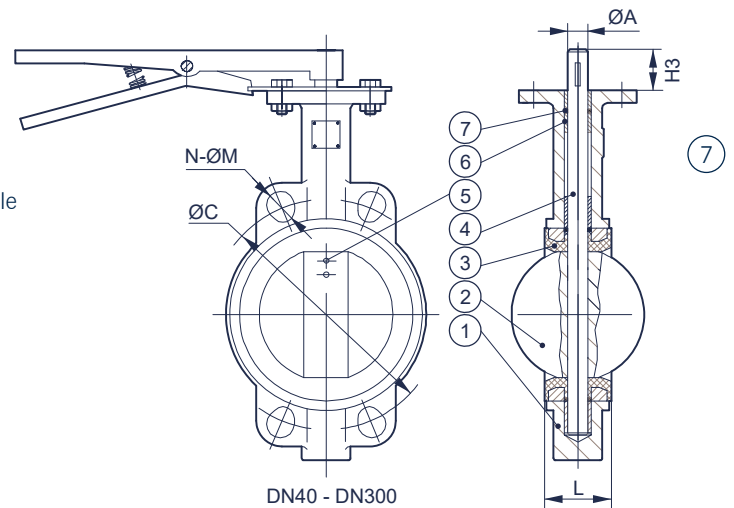
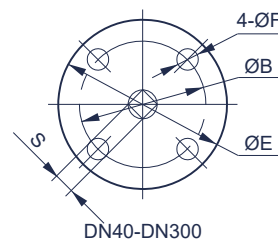
- End dimensions acc. to DIN2633
- Inspection & test acc. to EN12266

Limitation

- Do not use EPDM when hydrocarbons are present.
- Kindly anticipate increased torque for PTFE coated disc + PTFE seat option; gear operation recommended for sizes $\geq 4"$.

Options

- Double "half pin" style available for increased performance and lifecycle
- Coated disc available in: rubber, PTFE, nylon



Materials List		
NO	PARTS NAME	MATERIAL
1	BODY	CF8M / CF8 / CI / DI
2	DISC*	CF8M / CF8 / CI / DI
3	SEAT	NBR / EPDM / VITON
4	STEM	SS410
5	TAPER PIN	SS
6	BUSHING	PTFE
7	O-RING	EPDM

*Coated disc option available.
Enclosed a condensed table, for complete options, contact KLINGER directly.

Dimensions (mm)

Size		H1	H2	H3	L	ØD	ØC	N-ØM	ØA	ØE	ØB	ØF	S
IN	DN												
1½"	40	70	110	32	35	42.4	95	4-Ø15	12.7	92	70	9	9
2"	50	76	162	32	45	52.9	120	4-Ø19	12.7	92	70	9	9
2½"	65	89	175	32	48	64.6	140	4-Ø19	12.7	92	70	9	9
3"	80	95	181	32	49	79	150	4-Ø19	12.7	92	70	9	9
4"	100	114	200	32	55	104.4	175	8-Ø19	15.8	92	70	9	11
5"	125	127	213	32	58	129.5	210	8-Ø22	19	92	70	9	14
6"	150	140	225	32	59	155.8	240	8-Ø22	19	92	70	9	14
8"	200	177	260	36	64	202.7	290	8-Ø22	22.2	125	102	11	17
10"	250	203	292	36	70	250.7	355	12-Ø25	28.6	125	102	11	22
12"	300	242	337	36	80	301.9	400	16-Ø25	31.8	150	120	13	22

Table A: Maximum Pressure Rating

SIZE	RUBBER SEAT	PTFE SEAT	PTFE SEAT+ PTFE COATED DISC
≤DN150 (6")	13.7 bar (200psi)	13.7 bar (200psi)	10.3 bar (150 psi)
DN200 (8")	13.7 bar (200psi)	10.3 bar (150 psi)	10.3 bar (150 psi)
DN250 (10")~ DN300 (12")	13.7 bar (200psi)	10.3 bar (150 psi)	6.9 bar (100 psi)
DN350 (14")~ DN600 (24")	10.3 bar (150 psi)	6.9 bar (100 psi)	6.9 bar (100 psi)
≥DN600 (24")	6.9 bar (100 psi)	-	-
Gear Operation Recommendation	≥ 300	≥ DN150	≥ 100

Table B: Temperature Rating

SEAT	APPLICABLE TEMPEPRATURE
NBR	-20°C to +80°C (-4°F to 176°F)
EPDM	-20°C to +120°C (-4°F to 248°F)
VITON	-10°C to +200°C (+14°F to 392°F)
PTFE	-20°C to +150°C (-4°F to 302°F)

Concentric Butterfly Valve to ANSI/ASME Wafer Type

JIS10K, DN350 ~ DN1200

Series 81W(E)-JIS10K

Features

- Suitable for use in HVAC, irrigation, industrial applications where positive shutoff is required
- Single through-put shaft provides most economical pricing
- 10 position lever or gear operation
- Alloy material available on request

PMA: See Table A

TMA: See Table B

Selection:

Material of Body:
SCS13/SCS14/CI/DI

Standards

- End dimensions acc. to DIN2633
- Inspection & test acc. to EN12266

Limitation

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8 Options

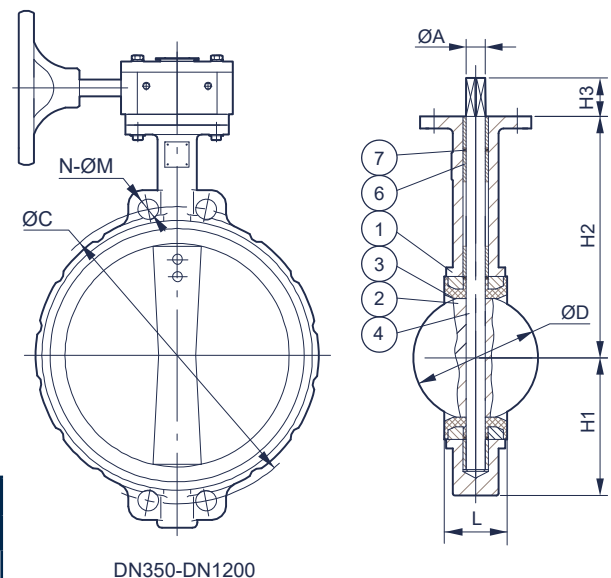
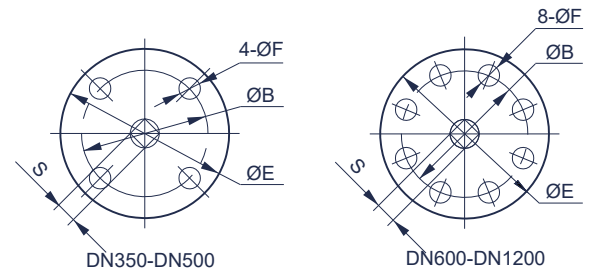
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Dimensions (mm)

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18"	450	318	422	51	109	439.9	565	20-Ø27	38	210	165	22	27
20"	500	349	479	64	135	491.6	620	20-Ø27	41	210	165	22	27
24"	600	410	562	70	156	592.3	730	24-Ø33	50	300	254	18	36
28"	700	520	624	72	169	694.1	840	24-Ø33	55	300	254	18	40
30"	750	516	624	72	175	744.2	900	24-Ø33	55	300	254	18	40
32"	800	591	672	83	195	794.2	950	28-Ø33	55	300	254	18	40
36"	900	611	768	77	211	863.4	1050	28-Ø33	74	300	254	18	53
40"	1000	665	823	85	229	963.4	1160	28-Ø39	84	300	254	18	60
48"	1200	955	880	206	249	1185	1380	32-Ø39	92	350	298	22	60



DN350-DN1200

Table B: Temperature Rating

SEAT	APPLICABLE TEMPERATURE
NBR	-20°C to +80°C (-4°F to 176°F)
EPDM	-20°C to +120°C (-4°F to 248°F)
VITON	-10°C to +200°C (+14°F to 392°F)
PTFE	-20°C to +150°C (-4°F to 302°F)