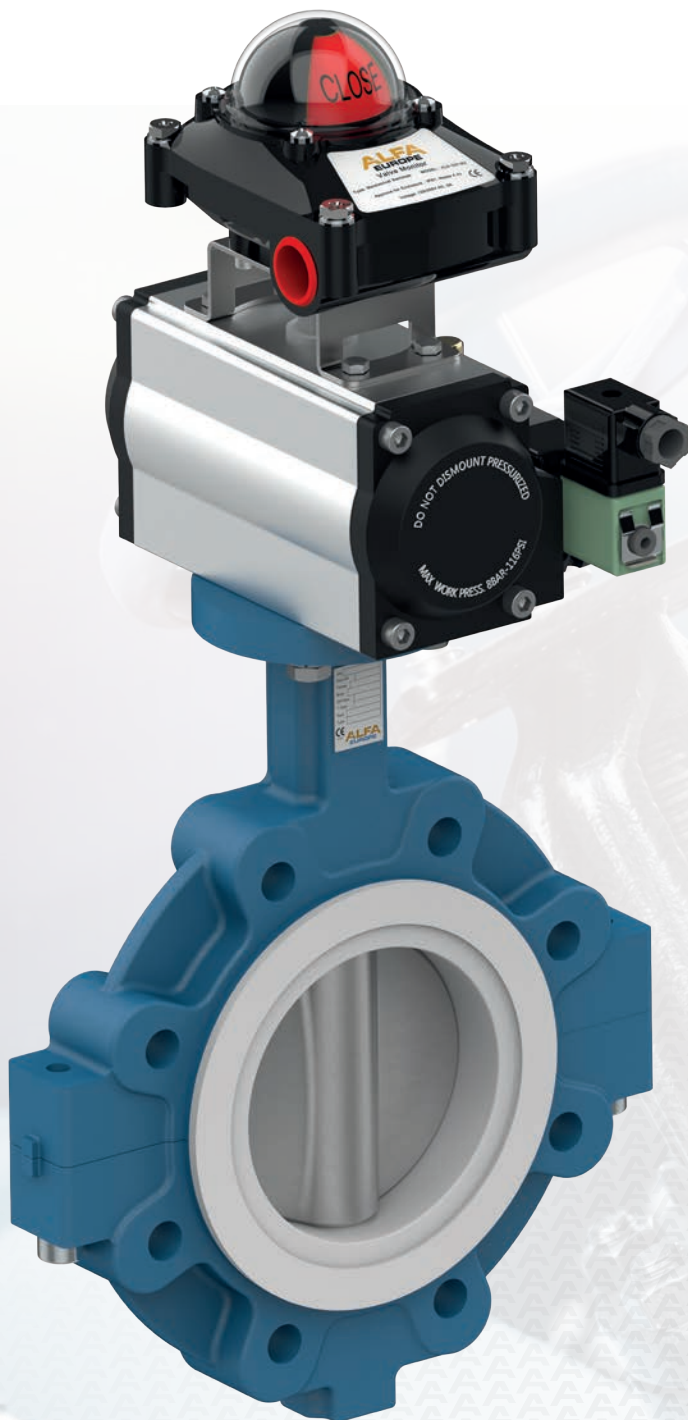




BUTTERFLY VALVES

TEFLON LINED SERIES

S59 WAFER TYPE

S66 LUG TYPE

S48 DOUBLE FLANGED TYPE

*Time to change to the new
European valve Standard!*

ALFA EUROPE TEFLON LINED VALVES

Alfa Europe is a produced of soft seat, Teflon lined butterfly valves/ The Valves manufactured according ISO 9001 Quality Assurance and is designed and tested to meet or exceed the most general industrial standards and are a result of long time experience in design and manufacturing Teflon lined valves.

APPLICABLE STANDARDS

- PED Module H according to 2014/68/EC
- Leakage rate for soft seated valves according to API 598 or EN 12266-1 Rate A
- Zero leakage
- Fugitive emission according to ISO 15848-1 C03 class HH (optional)

MODELS

- Wafer type - Series S59
- Lug type - Series S66
- Double flanged Series S48

FEATURES

- PTFE-Lined butterfly valves for chemical, and corrosive media
- Heavy-duty, compact construction, maintenance-free
- 2 piece body design
- Bubble-tight shut-off
- Unique shaft sealing arrangement assures maintenance free operation at automated processes and high operating pressures, optimized and reinforced liner shape
- No need of additional flange gaskets due to wide and chambered flange sealing surface

- Flange connections according to DIN PN10/16 resp. ANSI 150lbs, for installation into existing piping systems

RANGE

- DIN PN10/16 | DN50-DN600
- ANSI 150 2"-24"

Optional:

- JIS Standard | DN50-DN600
- Other/bigger size on request

STANDARD BODY MATERIALS

- Ductile iron EN 1563 5.3106 / JS1030
- A216 WCB / 1.0619
- A351 CF8M / 1.4408
- Duplex materials 4A, 6A, 2507 etc.

MEDIA:

Chlorine, Chlorine Dioxide, Hydriodic Acid, Hydrobromic Acid, Hydrochloric Acid, Hydrofluoric Acid, Hydrofluorsilicic Acid, Hydrogen Chloride, Hydrogen Cyanide, Nitric Acid, Sodium Chlorate, Sodium Chlorite,, Sodium Hypochlorite, Sulfuric Acid, and other high toxic and abrasive media.

FEATURES

ISO 5211 MOUNTING FLANGE

For ease of actuation and standardized mounting of Alfa Europe actuation all butterfly valves have standardized ISO 5211 mounting flanges.

BODY

Valves are designed as 2 piece body construction to ensure tightness, low operation torque , and tight in-line and atmospheric sealing over the life of the valve. Available in ductile iron, Steel, and stainless steel options.

DISC

The PTFE encapsuled disc with minimum thickness of 3mm of pure PTFE ensures low permeation properties and excellent wear resistance in demanding applications.

LIVE LOADED SHAFT SEALS

With both top and bottom live-loaded shaft seals the Alfa Europe butterfly valves offers excellent fugitive emissions resistance in high cycle applications.

MULTIPLE BEARINGS

A series od Teflon-coated journal bearings support the shaft along its length , providing a low operation torque and precise shaft alignment.

ENERGIZED BODY LINER SEAT

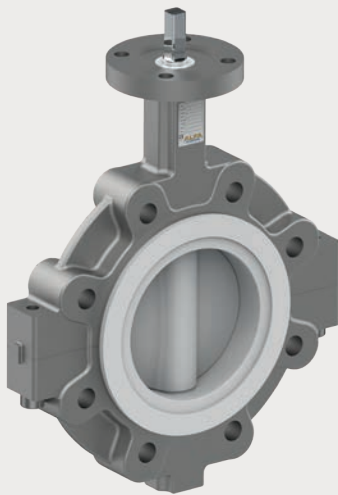
The Silicon backup seat (Viton or available as an option) provides elastic loading to the PTFE seat, ensuring long term, robust, bubble-tight sealing over the life of the valve.



WAFER TYPE
SERIES S59



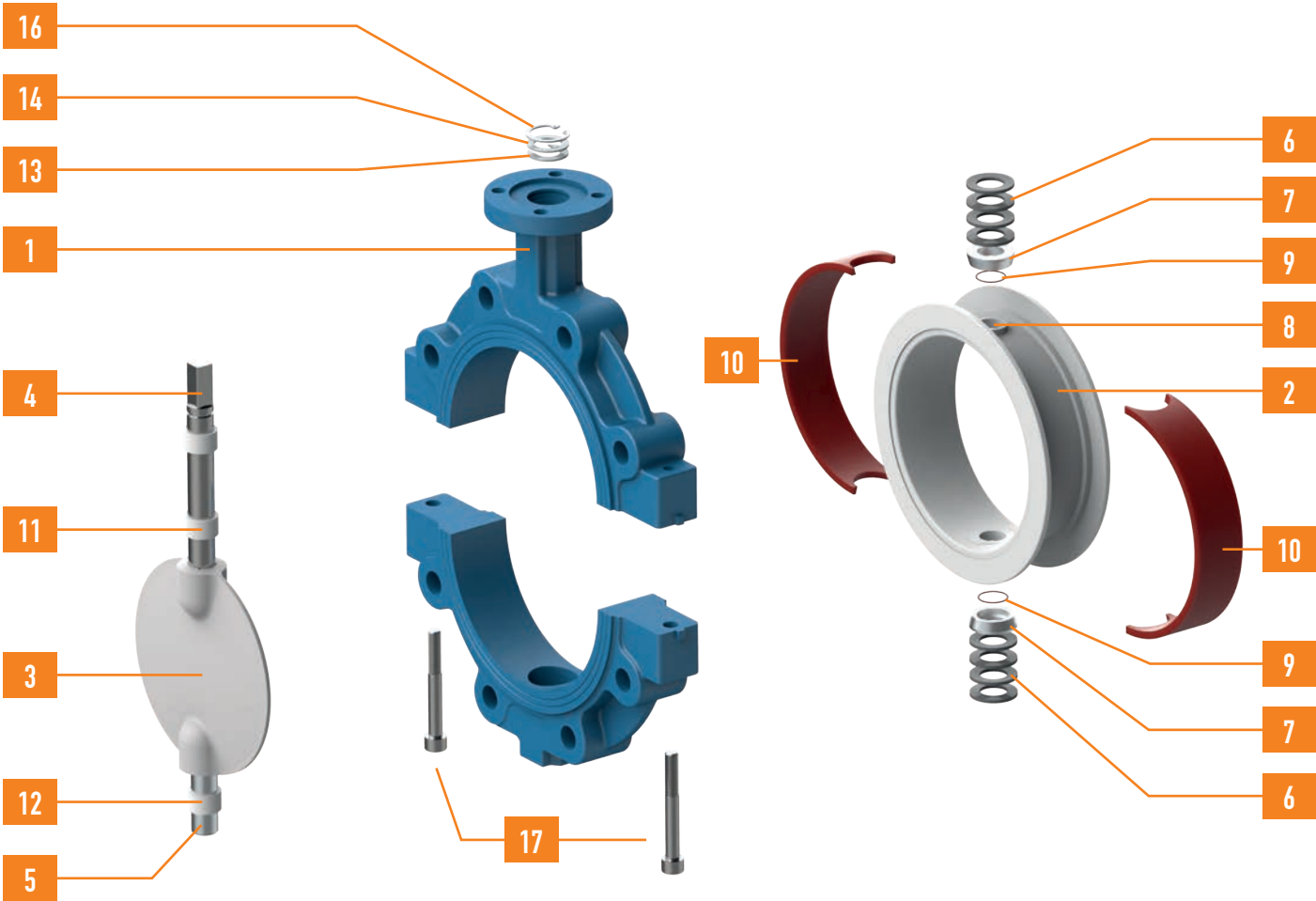
LUG TYPE
SERIES S66



DOUBLE FLANGED TYPE
SERIES S48



MATERIALS



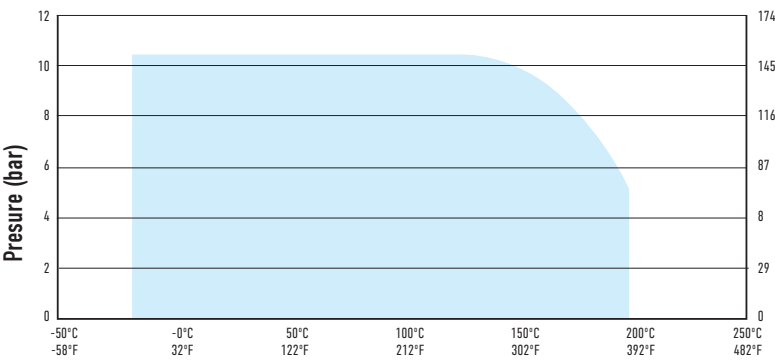
ITEM NO.	DESCRIPTION	AVAILABLE MATERIAL SELECTION		
1	BODY	Ductile iron	A216WCB	S.S. 1.4408
2	SEAT	PTFE	PTFE	PTFE
3	DISC	S.S. 1.4408	A16WCB/PTFE	S.S. 1.4408/PTFE
4	UPPER STEM	S.S. 431	Duplex F51	S.S. 316
5	LOWER STEM	S.S. 431	Duplex F51	S.S. 316
6	Disk spring	S.S. 17-7PH	S.S. 17-7PH	S.S. 17-7PH
7	Thrust ring	Stainless Steel	Stainless Steel	Stainless Steel
8	PIPE sleeve	PTFE	PTFE	PTFE
9	O-RING	FKM	FKM	FKM
10	SEAT ENERGIZER	FKM	Silicone	Viton
11	UPPER BEARING	PAP/PTFE	PAP/PTFE	PAP/PTFE
12	LOWER BEARING	PAP/PTFE	PAP/PTFE	PAP/PTFE
13	ANTI STATIC DEVICE	Stainless Steel	Stainless Steel	Stainless Steel
14	RETAINING RING	Stainless Steel	Stainless Steel	Stainless Steel
15	THRUST WASHER	Stainless Steel	Stainless Steel	Stainless Steel
16	RETAINING CLIP	Stainless Steel	Stainless Steel	Stainless Steel
17	BODY BOLT	A2-70	A4-70	A2-70

PRACTICAL INFORMATION

TORQUE VALUE EXCL. SAFETY FACTOR

Size (in)	DN	10 Bar rated (Nm)	16 Bar rated (Nm)
2	50	16	25
2.1/2	65	22	35
3	80	28	45
4	100	47	75
5	125	75	120
6	150	100	160
8	200	200	320
10	250	288	460
12	300	406	650
14	350	531	850
16	400	1300	
18	450	1700	
20	500	2700	
24	600	4200	

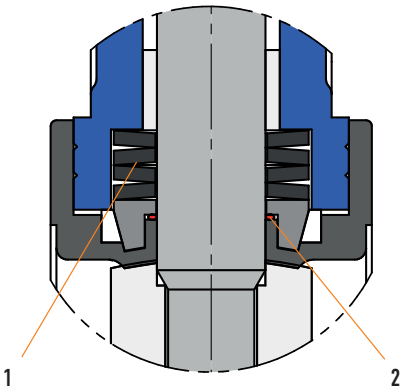
OPRATING PRESSURE - TEMPERATURE CHART LINED BUTTERFLY VALVES



NOTES:
1. The information in this catalog is provided for general informational purposes only.

FLOW COEFFICIENT (Cv)

Size		Opening Angle									
NPS (in)	DN (mm)	10°	20°	30°	40°	50°	60°	70°	80°	90°	
2	50	0	7	21	39	72	105	151	195	222	
2.1/2	65	0	12	26	53	91	137	191	248	279	
3	80	0	19	37	80	141	224	310	392	458	
4	100	0	24	58	108	185	293	440	566	678	
5	125	0	42	93	196	293	525	747	943	1175	
6	150	0	71	153	269	455	746	1107	1412	1737	
8	200	0	108	264	536	925	1367	2108	2793	3526	
10	250	0	200	402	826	1341	1865	2804	4236	5236	
12	300	0	304	603	1151	1993	3095	4595	6917	8368	
14	350	0	403	769	1366	2084	3339	5280	8326	10160	
16	400	0	596	1147	1712	2844	4908	7595	10736	13161	
18	450	0	776	1454	2583	4459	7256	10669	14215	17280	
20	500	0	1036	1875	3453	6207	9458	13682	18055	20883	
24	600	0	1476	2499	4847	8603	13161	19080	24595	28426	



Safety seal at both shaft ends:
1. Primary sealing: Belleville spring washers, transmitting continuously closing pressure on the spherical segment area.
2. Secondary sealing of the shaft by means of additional O-ring.



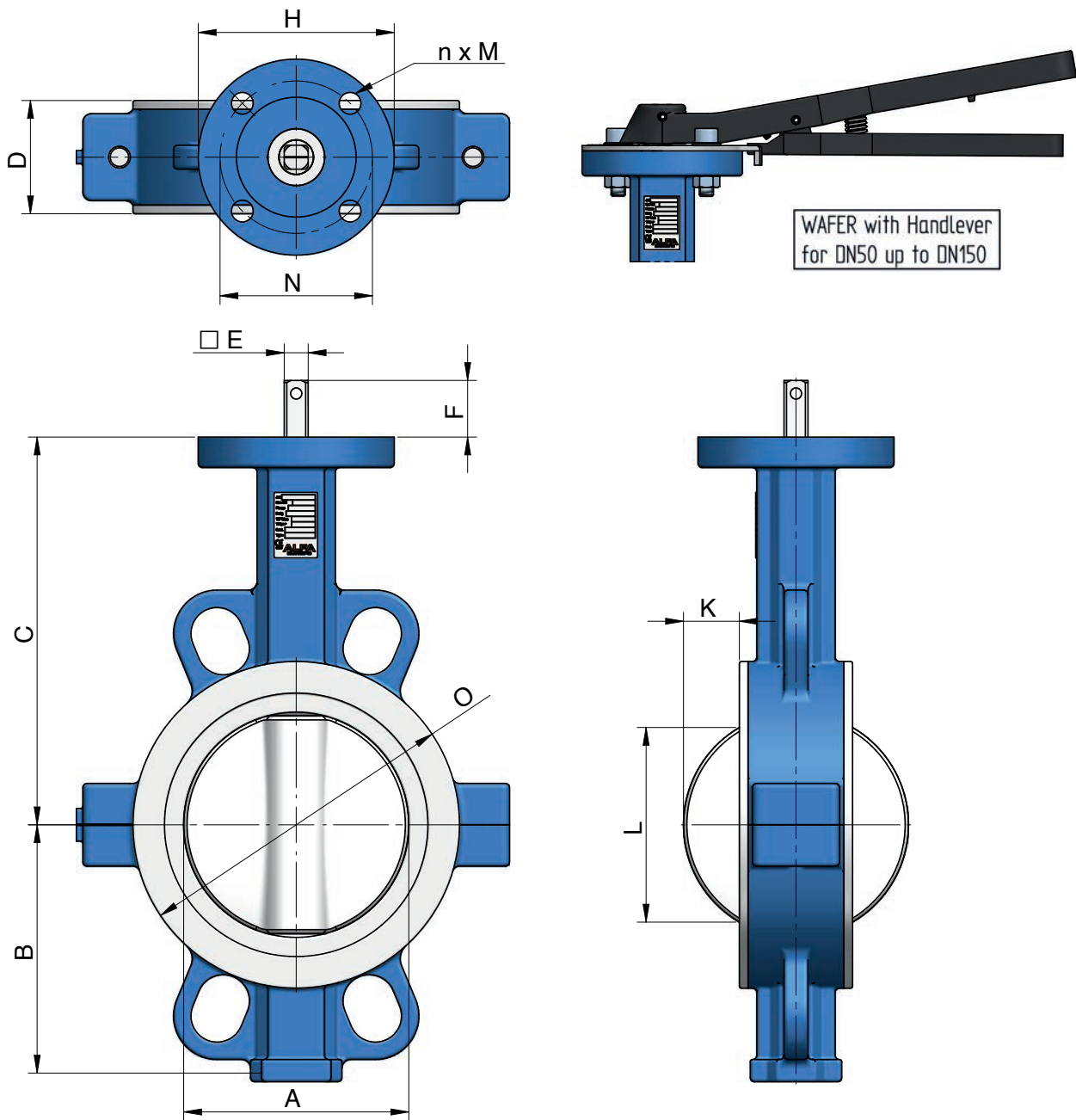
The disk/shaft with centric bearing is safe against expulsion and, including the whole safety sealing, PTFE-coated. The virgin PTFE-coating of the disc is 3 mm in thickness as a minimum.



Stainless steel solid disc mirror polished (optional) PTFE seat. Duplex 2205, Superduplex 2507 and other exotic disc material available upon request.

WAFER TYPE S59

BARE SHAFT / HANDLEVER DN50 - DN600

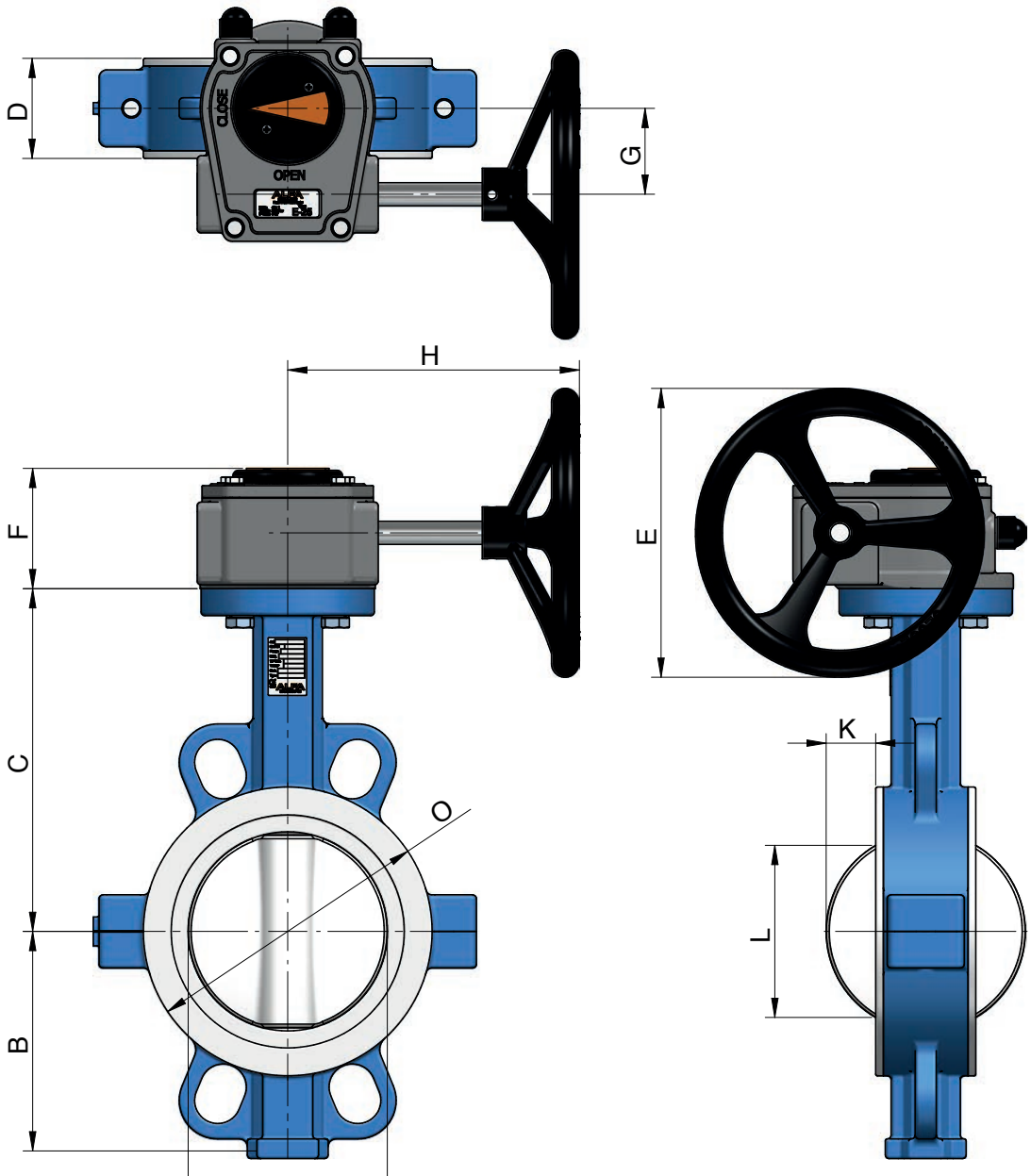


SIZE	A	B	C	D	E	F	K	TOPFLANGE				L	O	WEIGHT ± Kg
								ISO 5211	H	N	n X M			
DN 50	56	75	140	108	[]11	25	--	F07	ø90	ø70	4x ø10	--	165	8.1
DN 65	66	80	150	112	[]11	25	--	F07	ø90	ø70	4x ø10	--	185	8.9
DN 80	80	90	160	114	[]11	25	--	F07	ø90	ø70	4x ø10	--	200	9.5
DN 100	98	114	178	127	[]11	25	--	F07	ø90	ø70	4x ø10	--	220	14.0
DN 125	121	130	190	140	[]14	28	--	F07	ø90	ø70	4x ø10	--	250	18.2
DN 150	145	145	200	140	[]14	28	4	F07	ø90	ø70	4x ø10	48	285	24.6
DN 200	196	175	240	152	[]17	28	24	F10	ø125	ø102	4x ø12	128	340	44.0
DN 250	253	208	273	165	[]22	30	46	F10	ø125	ø102	4x ø12	194	405	56.4
DN 300	303	244	310	178	[]22	30	64	F10	ø125	ø102	4x ø12	247	460	78.0
DN 350	323	265	346	190	[]27	30	69	F12	ø175	ø125	4x ø14	264	520	90
DN 400	375	292	375	216	[]27	30	81	F12	ø175	ø125	4x ø14	309	580	95
DN 450	427	325	406	222	[]36	38	105	F14	ø175	ø140	4x ø18	368	640	110
DN 500	177	360	438	229	[]36	38	126	F14	ø175	ø140	4x ø18	421	715	140
DN 600	580	422	495	267	[]46	48	158	F16	ø210	ø165	4x ø22	516	840	220

* The details of this datasheet are subject to change without prior notification.

WAFER TYPE S59

GEARBOX OPERATED DN50 - DN600

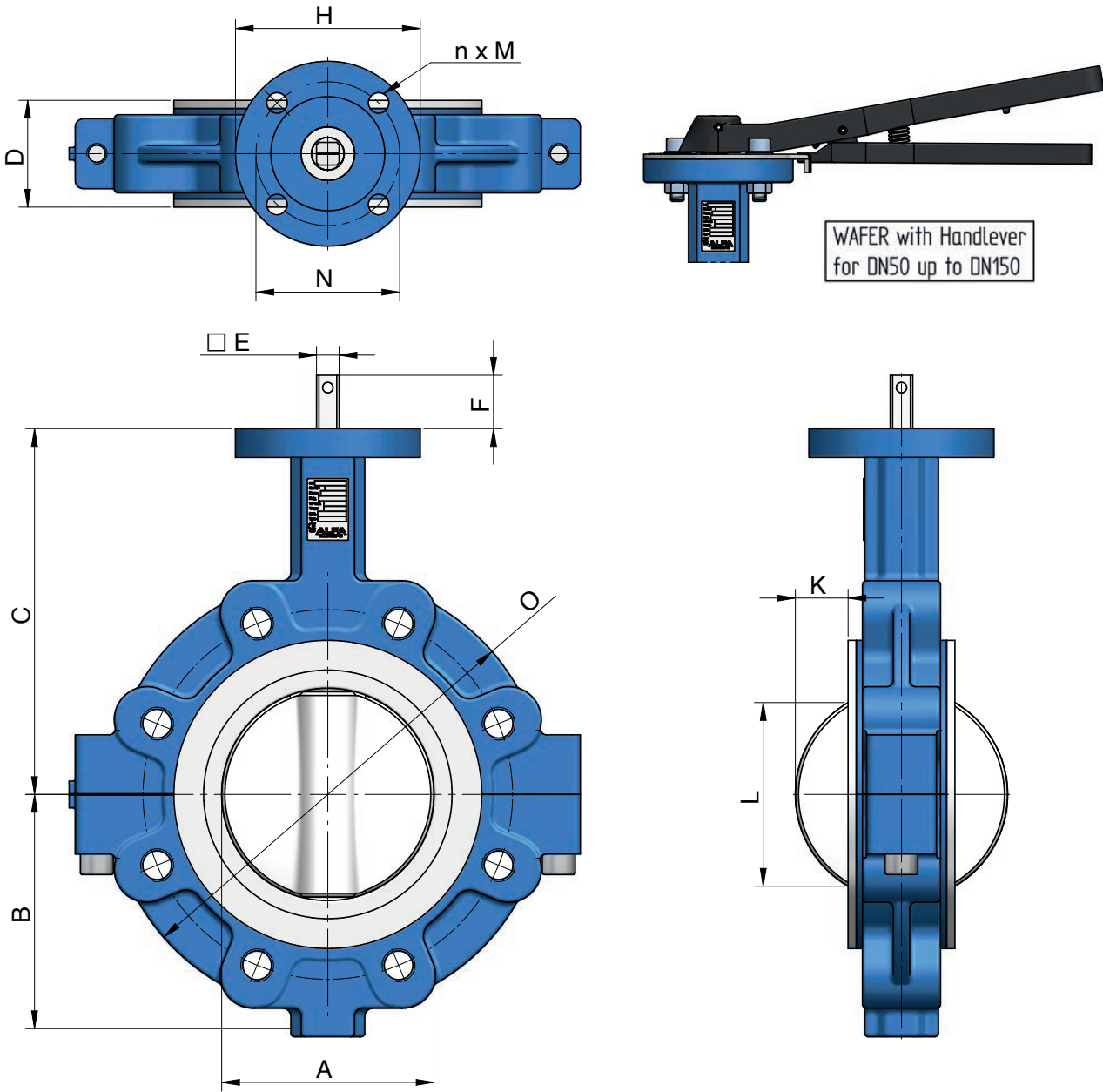


SIZE	GEARBOX	A	B	C	D	E	F	G	H	K	L	O	WEIGHT ± Kg
DN 50	ALFA - E12	56	75	140	108	[]11	50	36.5	114	--	--	165	9.6
DN 65	ALFA - E12	66	80	150	112	[]11	50	36.5	114	--	--	185	10.4
DN 80	ALFA - E12	80	90	160	114	[]11	50	36.5	114	--	--	200	13.0
DN 100	ALFA - E25	98	114	178	127	[]11	50	44.6	151	--	--	220	17.5
DN 125	ALFA - E25	121	130	190	140	[]14	62	44.6	151	--	--	250	21.7
DN 150	ALFA - E25	145	145	200	140	[]14	62	44.6	151	4	48	285	28.1
DN 200	ALFA - E25	196	175	240	152	[]17	62	44.6	151	24	128	340	47.5
DN 250	ALFA - E55	253	208	273	165	[]22	73	55	235	46	194	405	62.6
DN 300	ALFA - E55	303	244	310	178	[]22	73	55	235	64	247	460	84.2
DN 350	ALFA - 100	323	265	346	190	[]27	95	71	272	69	264	520	103
DN 400	ALFA - 100	375	292	375	216	[]27	95	71	272	81	309	580	108
DN 450	ALFA - 200	427	325	406	222	[]36	102	86	310	105	368	640	130
DN 500	ALFA - 200	177	360	438	229	[]36	102	86	310	126	421	715	160
DN 600	ALFA - 250	580	422	495	267	[]46	106	104.5	336	158	516	840	245

* The details of this datasheet are subject to change without prior notification.

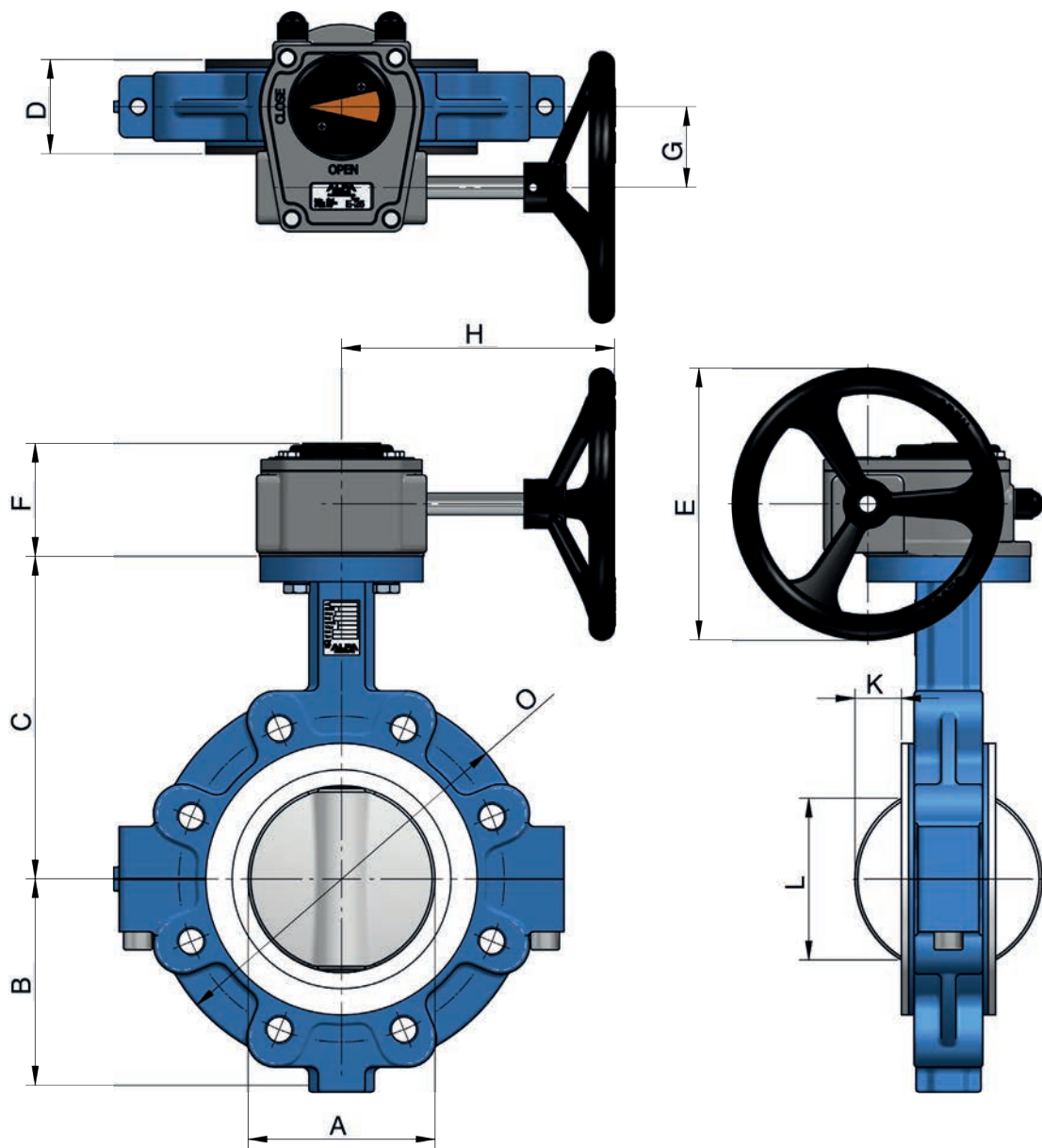
LUG TYPE S66

BARE SHAFT / HANDLEVER DN50 - DN600



LUG TYPE S66

GEARBOX OPERATED DN50 - DN600



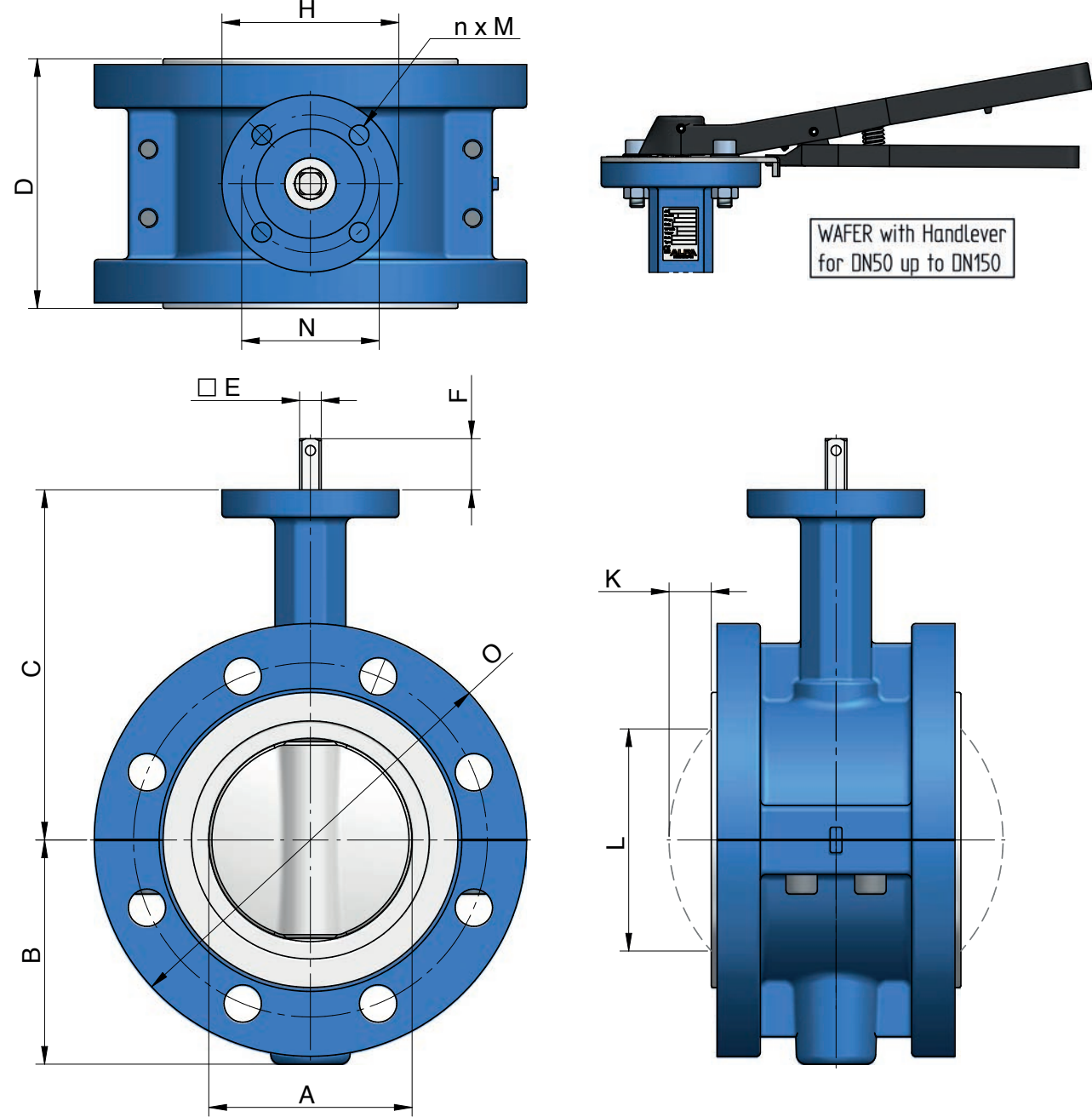
SIZE	A	B	C	D	E	F	K	L	TOPFLANGE				O	WEIGHT ± Kg
									ISO 5211	H	N	n x M		
DN 50	56	75	140	43	[]11	25	8	39	F07	ø90	ø70	4 x ø10	90	3.7
DN 65	66	82	150	46	[]11	25	12	50	F07	ø90	ø70	4 x ø10	104	4.6
DN 80	80	90	160	46	[]11	25	19	68	F07	ø90	ø70	4 x ø10	120	5.7
DN 100	98	118	178	52	[]11	25	25	85	F07	ø90	ø70	4 x ø10	144	8.2
DN 125	121	131	190	56	[]14	28	34	109	F07	ø90	ø70	4 x ø10	174	11.0
DN 150	145	145	200	56	[]14	28	46	135	F07	ø90	ø70	4 x ø10	203	12.3
DN 200	196	173	240	60	[]17	28	70	188	F10	ø125	ø102	4 x ø12	250	19.5
DN 250	253	208	273	68	[]22	30	94	244	F10	ø125	ø102	4 x ø12	308	33.3
DN 300	303	244	310	78	[]22	30	114	293	F10	ø125	ø102	4 x ø12	360	52.0
DN 350	323	260	346	78	[]27	30	125	315	F12	ø175	ø125	4 x ø14	420	64
DN 400	375	290	375	102	[]27	30	138	362	F12	ø175	ø125	4 x ø14	465	79
DN 450	427	325	406	114	[]36	38	159	413	F14	ø175	ø140	4 x ø18	520	127
DN 500	477	360	438	127	[]36	38	177	461	F14	ø175	ø140	4 x ø18	570	154
DN 600	580	422	495	154	[]46	48	215	560	F16	ø210	ø165	4 x ø22	675	226

* The details of this datasheet are subject to change without prior notification.

* The details of this datasheet are subject to change without prior notification.

DOUBLE FLANGED TYPE S48

BARE SHAFT / HANDLEVER DN50 - DN600

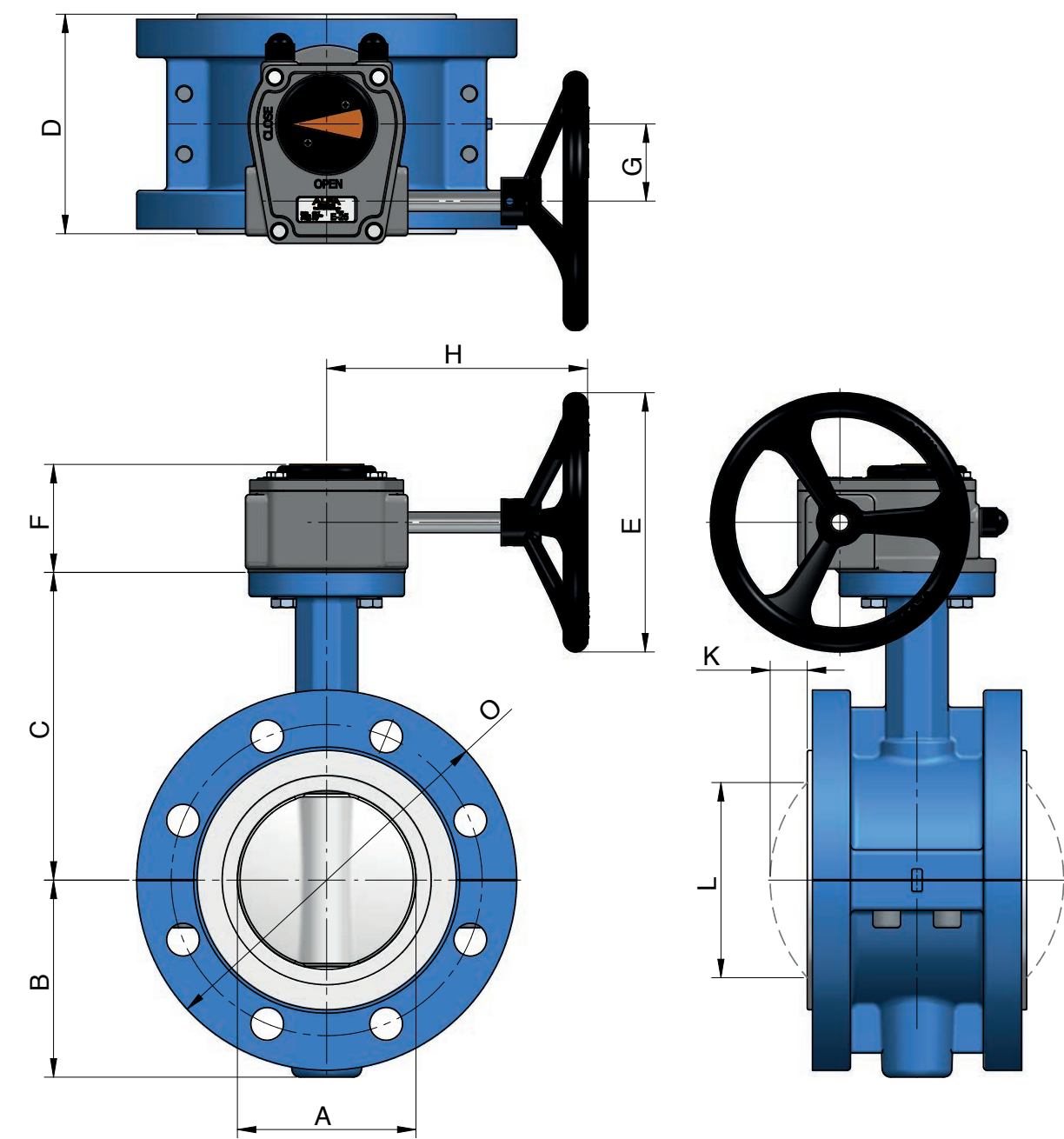


SIZE	A	B	C	D	E	F	K	L	TOPFLANGE				O	WEIGHT ± Kg
									ISO 5211	H	N	n X M		
DN 50	56	75	140	43	[]11	25	8	39	F07	ø90	ø70	4x ø10	90	2.5
DN 65	66	82	150	46	[]11	25	12	50	F07	ø90	ø70	4x ø10	104	3.3
DN 80	80	90	160	46	[]11	25	19	68	F07	ø90	ø70	4x ø10	120	3.6
DN 100	98	118	178	52	[]11	25	25	85	F07	ø90	ø70	4x ø10	144	5.2
DN 125	121	131	190	56	[]14	28	34	109	F07	ø90	ø70	4x ø10	174	7.2
DN 150	145	145	2300	56	[]14	28	46	135	F07	ø90	ø70	4x ø10	203	8.4
DN 200	196	173	240	60	[]17	28	70	188	F10	ø125	ø102	4x ø12	250	13.8
DN 250	253	208	273	68	[]22	30	94	244	F10	ø125	ø102	4x ø12	308	21.0
DN 300	303	244	310	78	[]22	30	114	293	F12	ø125	ø102	4x ø12	360	31.7
DN 350	323	260	346	78	[]27	30	125	315	F12	ø175	ø125	4x ø14	410	57
DN 400	375	290	375	102	[]27	30	138	362	F12	ø175	ø125	4x ø14	465	77
DN 450	427	325	406	114	[]36	38	159	413	F14	ø175	ø140	4x ø18	520	124
DN 500	477	360	438	127	[]36	38	177	461	F14	ø175	ø140	4x ø18	570	154
DN 600	580	422	495	154	[]46	48	215	560	F16	ø210	ø165	4x ø22	675	226

* The details of this datasheet are subject to change without prior notification.

DOUBLE FLANGED TYPE S48

GEARBOX OPERATED DN50 - DN600



SIZE	GEARBOX	A	B	C	D	E	F	G	H	K	L	O	WEIGHT ± Kg
DN 50	ALFA - E12	56	75	140	43	SC-125	50	36.5	114	8	39	90	4.0
DN 65	ALFA - E12	66	82	150	46	SC-125	50	36.5	114	12	50	104	4.8
DN 80	ALFA - E12	80	90	160	46	SC-125	50	36.5	114	19	68	120	5.1
DN 100	ALFA - E25	98	118	178	52	SC-150	50	44.6	151	25	85	144	8.7
DN 125	ALFA - E25	121	131	190	56	SC-150	62	44.6	151	34	109	174	10.7
DN 150	ALFA - E25	145	145	200	56	SC-150	62	44.6	151	46	135	203	11.9
DN 200	ALFA - E25	196	173	240	60	SC-150	62	44.6	151	70	188	250	17.3
DN 250	ALFA - E55	253	208	273	68	SW-250	73	55	235	94	244	308	27.2
DN 300	ALFA - E55	303	244	310	78	SW-250	73	55	235	114	293	360	37.9
DN 350	ALFA - E100	323	260	346	78	SW-300	95	71	272	125	315	410	70
DN 400	ALFA - E100	375	290	375	102	SW-300	95	71	272	138	362	465	90
DN 450	ALFA - E200	427	325	406	114	SW-400	102	86	310	159	413	520	144
DN 500	ALFA - E200	477	360	438	127	SW-400	102	86	310	177	461	570	174
DN 600	ALFA - E350	580	422	495	154	SW-500	106	104.5	336	215	560	675	252

* The details of this datasheet are subject to change without prior notification.



*Time to change to the new
European valve Standard!*

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