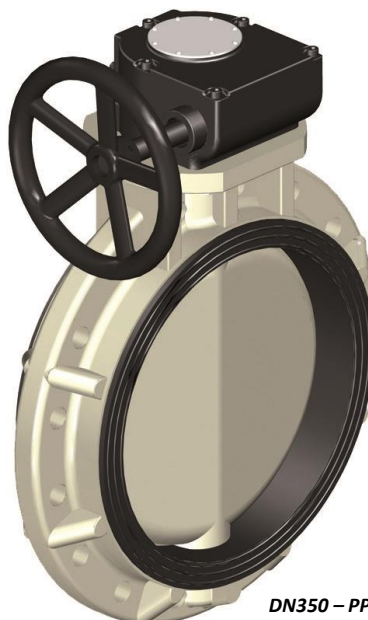


BUTTERFLY VALVE - DN200 (8") to DN250 (10") - DN300 (12") to DN600 (24") - DN700 (28") to DN1000 (40") - PVC-U, PVC-C, PP-H, PVDF

Conform to the 2014/68/EU Directive



DN200 –PVC-U – with Gearbox



DN350 – PP-H – with Gearbox

MAIN FEATURES

- This type of valve has the advantage of a robust construction, with a one-piece body and a symmetrical and solid centered butterfly, ensuring a strong sealing on the elastomer seal in both flow directions.
- Installation on the piping of this valve must be done in the open position.
- The valve is equipped with a Handwheel Gearbox.
- The irreversible handwheel gearbox enables stopping and position holding while facilitating operation.
- Gearboxes without grease nipple are lubricated for life
- Gearboxes with a grease nipple are to be lubricated once a year or every 500 manoeuvres.

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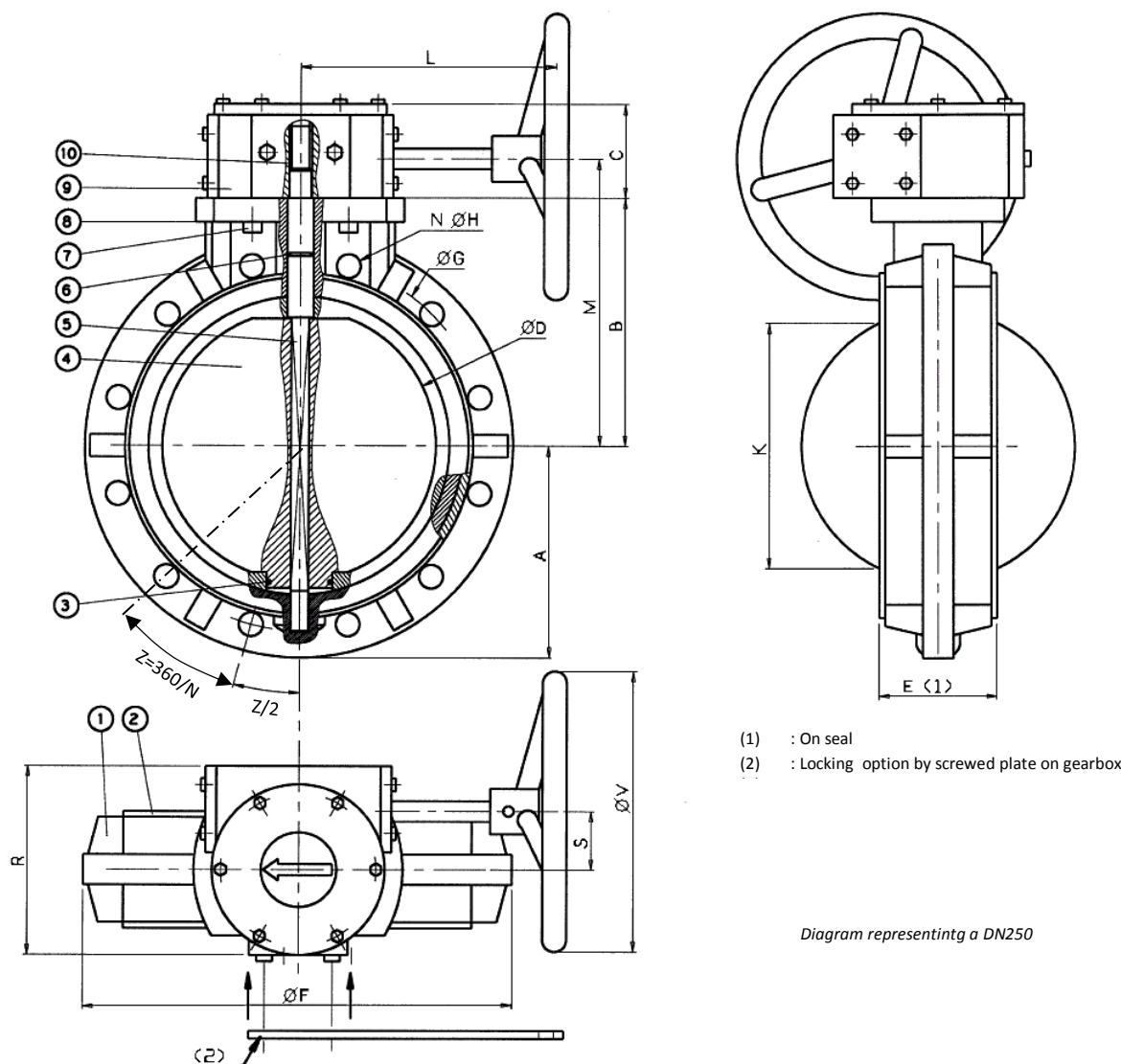
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DIMENSIONS

DN200 to DN250



DN	A	B	C	ØD	E	ØF	ØG		ØH		K	L	M	N		R	S	ØV	Z
							DIN	ANSI	DIN	ANSI				DIN	ANSI				
200	174	211	108	203	81,5	348	295	298,4	23	22	190	175	263	8	8	136	51	180	45°
250	206	242	83	255	102	412	350	362	25	25	238	195	294	12	12	136	51	180	30°

DIN = Drilling in accordance with EN 1092-1 PN10/PN16

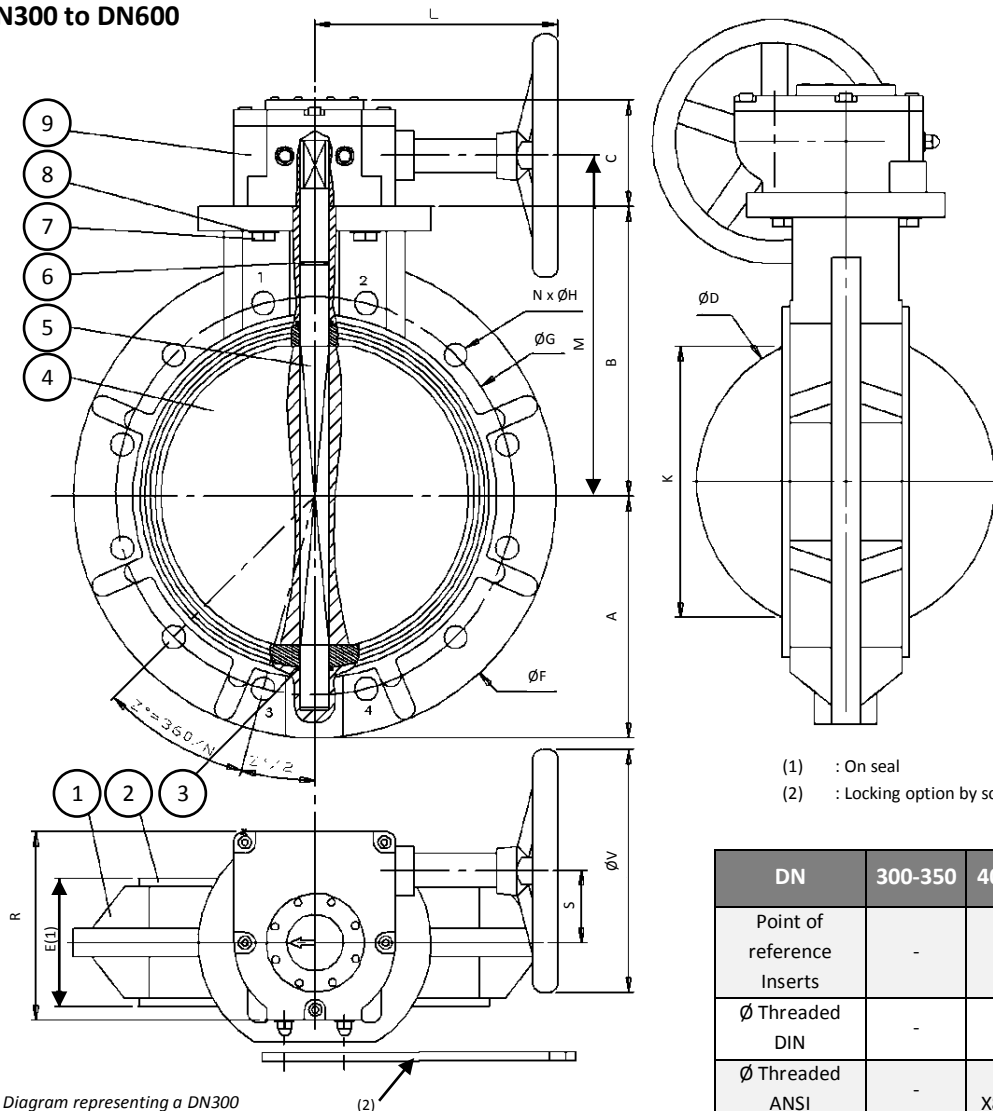
ANSI = Drilling in accordance with EN1759-1/ASME B16.5 Class 150

DN	TORQUE Without load (N.m)	WEIGHT WITHOUT GEARBOX (KG)			WEIGHT WITH GEARBOX (KG)		
		PP-H	PVC-U PVC-C	PVDF	PP-H	PVC-U PVC-C	PVDF
200	180	6,3	10	9,4	12,2	16,5	15,3
250	330	9,6	15	14,2	15,4	19,30	20

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DN300 to DN600



- (1) : On seal
(2) : Locking option by screwed plate on gearbox

DN	300-350	400-450	500	600
Point of reference Inserts	-	1 & 2	1-2-3-4	1-2-3-4
Ø Threaded DIN	-	M24	M24	M30
Ø Threaded ANSI	-	1" X8 thrds	1" X8 thrds	1-1/4" X7 thrds

DN	A	B	C	ØD	E	ØF	ØG		ØH		K	L	M	N		R	S	ØV	Z	
							DIN	ANSI	DIN	ANSI				DIN	ANSI				DIN	ANSI
300	247	289	110	312	120	493	400	431,8	25	25	293	225	341	12	12	189	72	305	30°	30°
350	270	305	110	355	123	540	460	476,2	25	29	335	225	359	16	12	189	72	305	22,5°	30°
400	307,5	363	130	398	163	615	515	540	27	29	372	345	425	16	16	189	72	356	22,5°	22,5°
450	325	365	130	451	175	640	565	577,85	27	32	412	345	427	20	16	285	116	406	18°	22,5°
500	373	405	130	500	183	730	620	635	27	32	474	345	467	20	20	285	116	457	18°	18°
600	435	460	175	600	205	844	725	749,3	30	35	567	365	522	20	20	285	116	508	18°	18°

DIN = Drilling in accordance with EN 1092-1 PN10/PN16

ANSI = Drilling in accordance with EN1759-1/ASME B16.5 Class 150

DN	TORQUE Without load (N.m)	WEIGHT WITHOUT GEARBOX (KG)			WEIGHT WITH GEARBOX (KG)		
		PP-H	PVC-U	PVDF	PP-H	PVC-U	PVDF
300	450	14,6	18,3	Contact us	31	39	Contact us
350	800	17,6	22		34	43	
400	800	34	43		69	87	
450	800	55	69		90	112	
500	1000	55	69		90	112	
600	1200	81	102		116	145	

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DN700 TO DN1000 (PP-H ONLY)

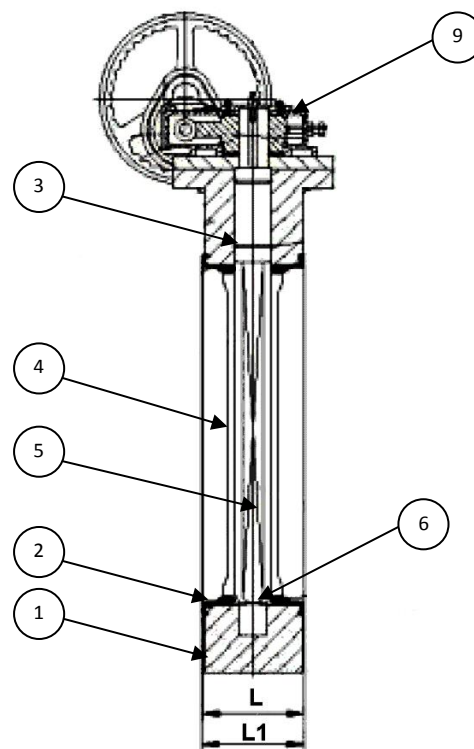
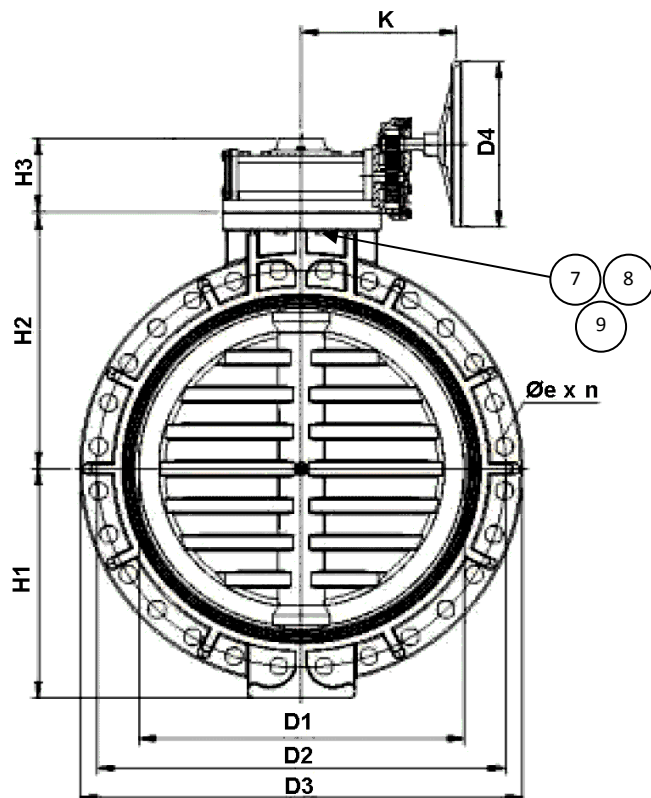


Diagram representing a DN1000

DN	700	800	900	1000	1200
Point of reference Inserts	1-2-3-4	1-2-3-4	1-2-3-4	1-2-3-4	1-2-3-4
Ø Threaded DIN	M27	M30	M30	M30	M30
Ø Threaded ANSI	1-1/4" X7 thrs	1-1/2" X6 thrs	1-1/2" X6 thrs	1-1/2" X6 thrs	1-1/2" X6 thrs

DN	n	Øe	ØD1	ØD2		ØD3	ØD4	H1	H2	H3	K	L	L1
				DIN	ANSI								
700	24	30	680	840	863	942	356	498	563	138	325	203	210
800	24	33	780	950	978	1060	406	503	630	132	372	241	248
900	28	33	870	1050	1086	1185	406	621	694	132	372	241	248
1000	28	36	970	1175	1175	1290	508	683	762	210	471	300	307

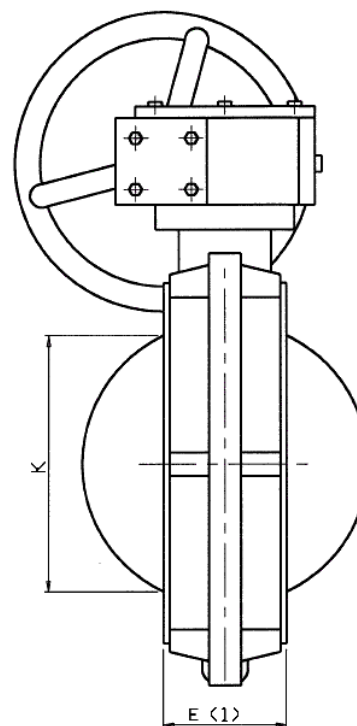
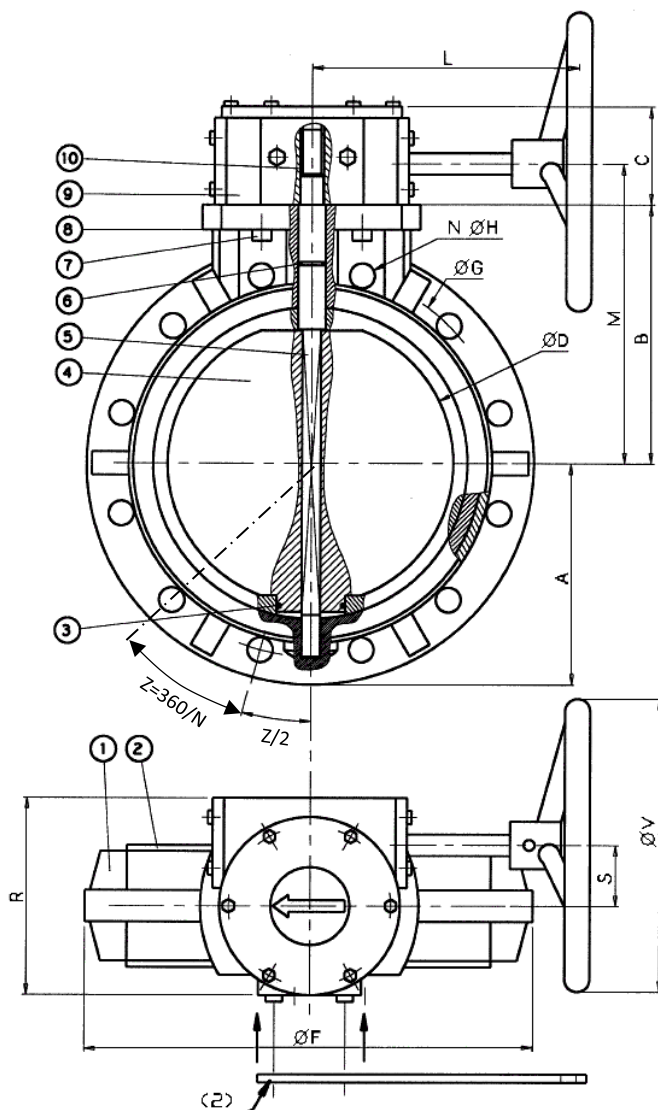
DIN = Drilling in accordance with EN 1092-1 PN10/PN16

ANSI = Drilling in accordance with EN1759-1/ASME B16.5 Class 150

DN	WEIGHT WITH GEARBOX (KG)
	PP-H
700	215
800	233
900	270
1000	320

PARTS LIST

DN200 to DN250



- (1) : On seal
(2) : Locking option by screwed plate on gearbox

Diagram representing a DN200

N°	QTY	DESCRIPTION	MATERIAL
1	1	BODY	PP-H, PVC-C, PVC-U, PVDF
2	1	SEAL	EPDM/FPM
3	2	O-RING	EPDM/FPM
4	1	BUTTERFLY	PP-H, PVC-C, PVC-U, PVDF
5	1	SHAFT	SS 410
6	1	O-RING	EPDM/FPM
7	4	SCREW CHC	SS
8	4	WASHER	SS
9	1	GEARBOX	FCD450
10	2	KEYPIN	SS

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DN300 to DN600

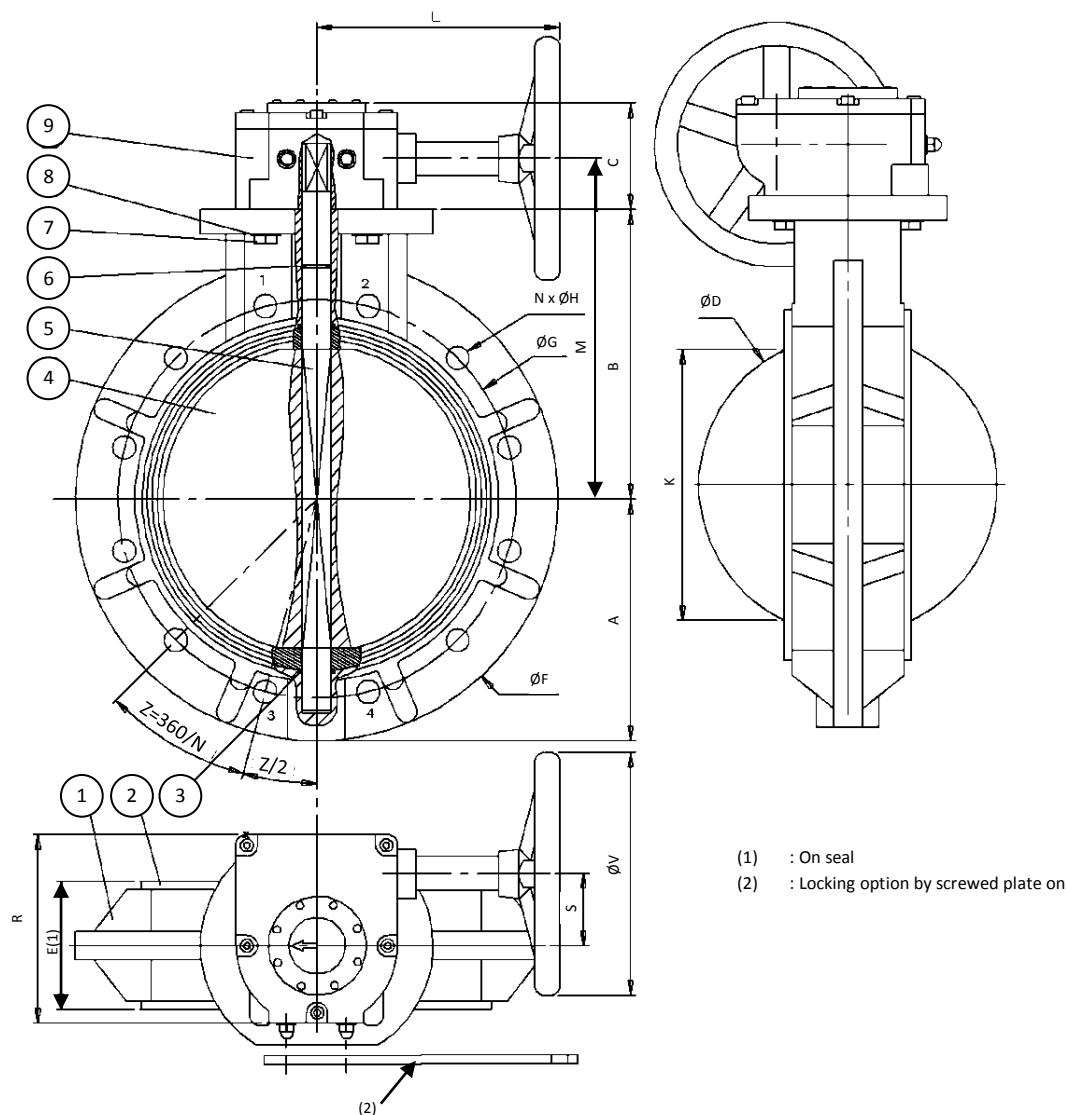


Diagram representing a DN300

N°	QTY	DESCRIPTION	MATERIAL
1	1	BODY	PP-H, PVC-C, PVC-U, PVDF
2	1	SEAL	EPDM/FPM
3	2	O-RING	EPDM/FPM
4	1	BUTTERFLY	PP-H, PVC-C, PVC-U, PVDF
5	1	SHAFT	SS 410
6	1	O-RING	EPDM/FPM
7	4	SCREW CHC	SS
8	4	WASHER	SS
9	1	GEARBOX	FCD450

DN700 to DN1000 (PP-H ONLY)

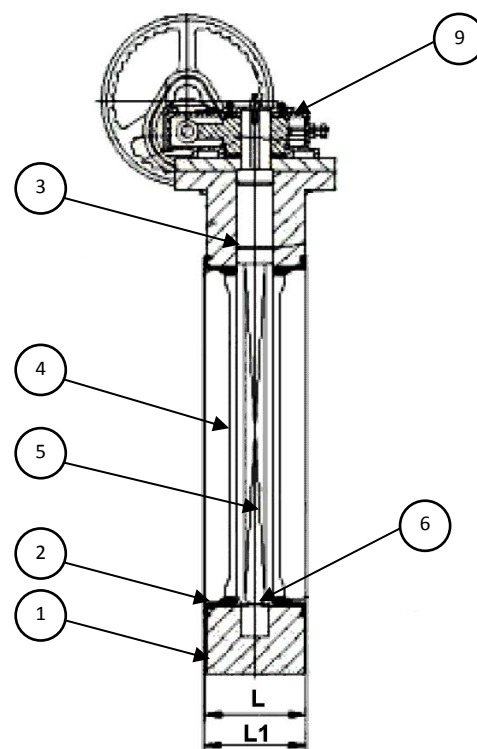
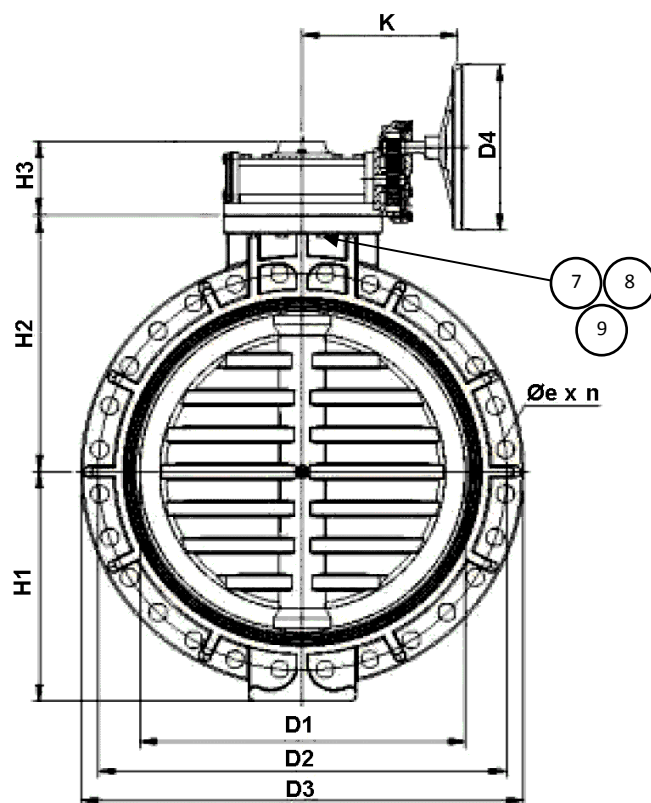
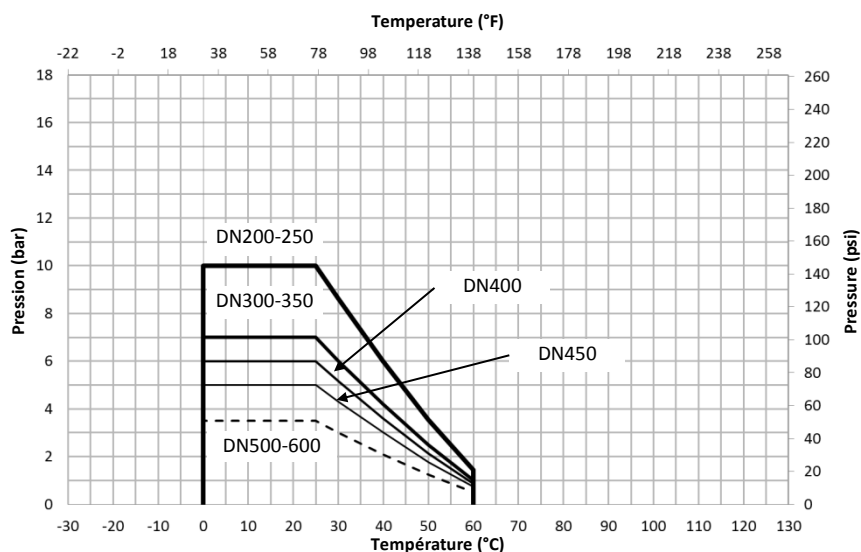


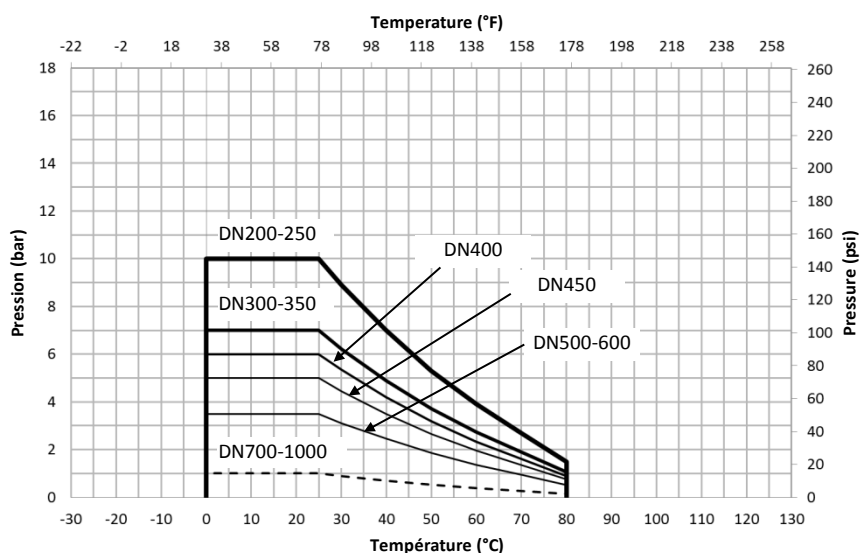
Diagram representing a DN1000

N°	QTY	DESCRIPTION	MATERIAL
1	1	BODY	PP-H
2	1	SEAL	EPDM/FPM
3	2	O-RING	EPDM/FPM
4	1	BUTTERFLY	PP-H
5	1	SHAFT	SS 410
6	1	O-RING	EPDM/FPM
7	4	SCREW HC	SS
8	4	WASHER	SS
9	1	GERABOX	FCD450

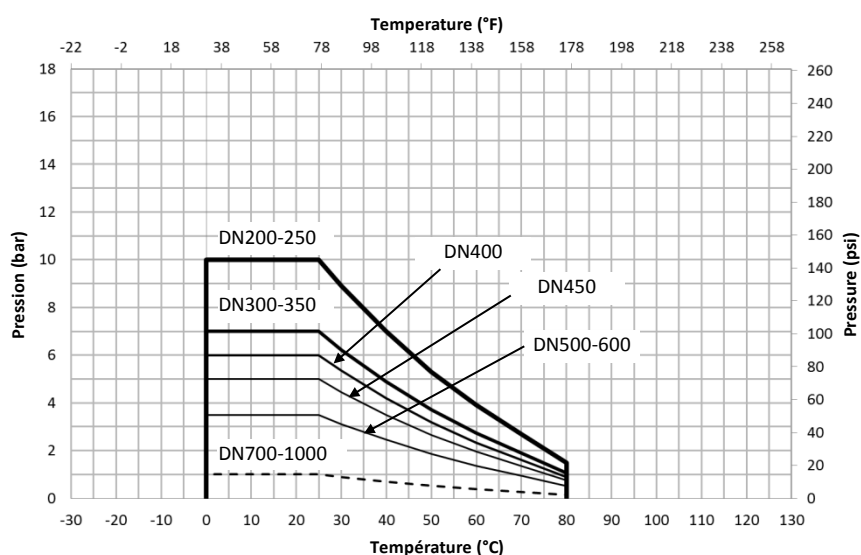
PRESSURE / TEMPERATURE CURVES



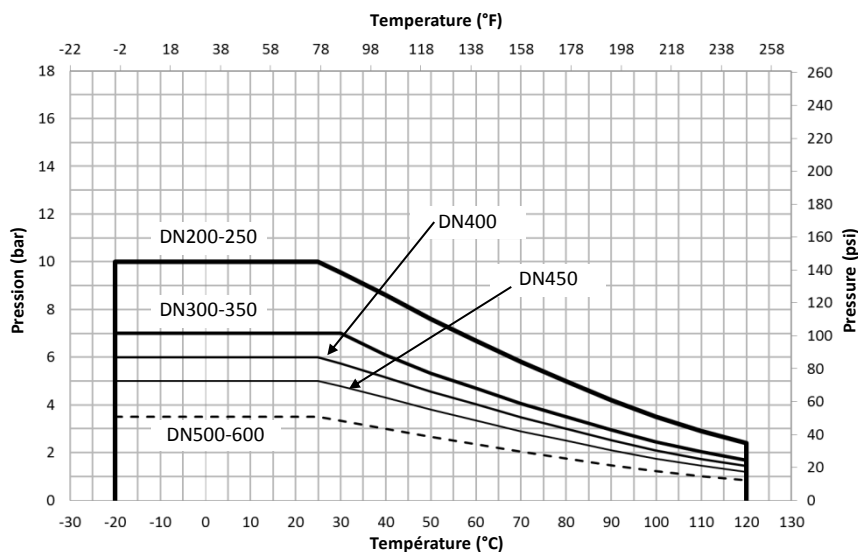
BODY in PVC-U



BODY in PVC-C



BODY in PP-H



BODY in PVDF

Pressure/Temperature Summary

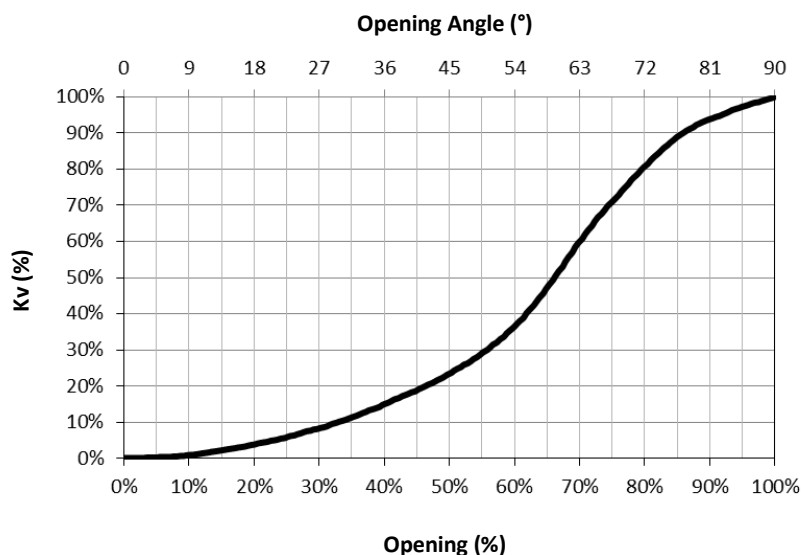
WORKING TEMPERATURE			
VALVE MATERIAL			
PP-H	PVDF	PVC-U	PVC-C
0°C to 80°C	-20°C to +120°C	0°C to +60°C	0°C to +80°C

The mechanical characteristics of the FPM and FFPM seals subjected to an ambient temperature below -5°C require the implementation of proper insulation on the valves equipped with such seals. Contact us for more information.

WORKING PRESSURE				
DN	VALVE MATERIAL			
	PP-H	PVDF	PVC-U	PVC-C
200-250	10	10	10	10
300-350	7	7	7	7
400	6	6	6	6
450	5	5	5	5
500-600	3,5	3,5	3,5	3,5
700-1000	1	-	-	-

PRESSURE LOSS

DN	Kv m ³ /h
200	2293
250	3201
300	4646
350	5567
400	6954
450	8941
500	12161
600	15551
700	Contact us
800	
900	
1000	



Our valves are guaranteed for an average fluid velocity in the pipeline of ≤ 2 m/s. Please contact us with the working conditions for any higher speed.

CHEMICAL RESISTANCE

The chemical resistance of the valve is subject to the type of fluid, the temperature, the pressure, as well as the materials and seals of the valve.

Please contact us to have a personalized analysis of the resistance of one of our products to a given fluid

You can also consult, for information only, the table given in ISO 10358. However, this table cannot be considered as a recommendation by SAFI who could not be held liable for the use of this document.

OPTION: MOUNTING KIT (ISO 5211)

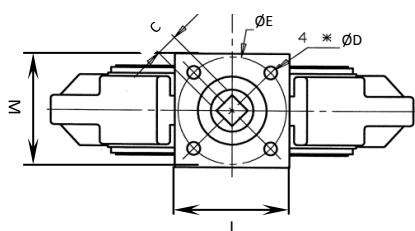
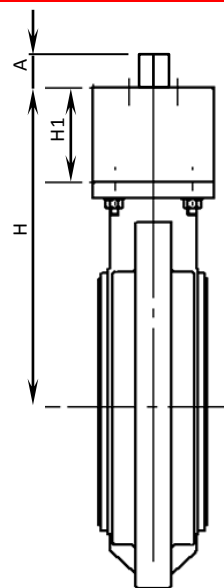
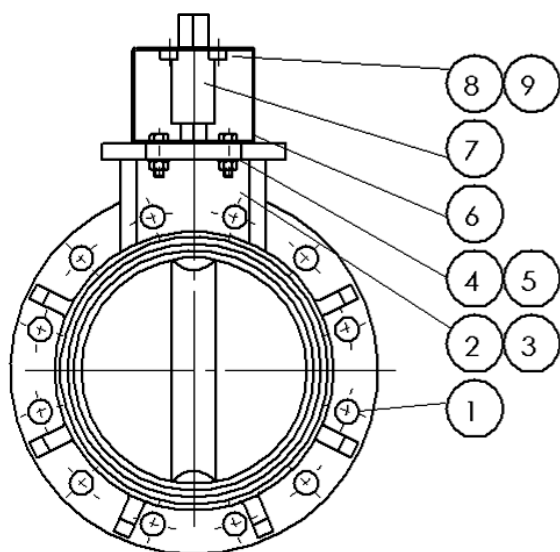


Diagram representing assembly on a DN200

N°	QTY	DESCRIPTION	MATERIAL
1	1	Butterfly Valve DN50 to DN200	PP-H / PVDF / PVC-U / PVC-C
2	4	Nut	SS 316
3	4	Washer	SS 316
4	4	Spring Washer	SS 316
5	4	Screw	SS 316
6	1	Bracket	SS 304+Epoxy
7	1	Drive Spindle	SS 304+Epoxy
8	4	Screw	SS 316
9	4	Washer	SS 316

DN	A	H	H1	L	M	ISO 5211 FIXINGS											
						F10			F12			F14			F16		
						C*	ØD	ØE	C*	ØD	ØE	C*	ØD	ØE	C*	ØD	ØE
200	24	286	75	180	130	22	Ø10,5	Ø102	22	Ø12,5	Ø125	-	-	-	-	-	-
	36	286	75	180	130	36	Ø10,5	Ø102	36	Ø12,5	Ø125	-	-	-	-	-	-
250	29	317	75	180	130	27	Ø10,5	Ø102	27	Ø12,5	Ø125	-	-	-	-	-	-
	46	317	75	180	160	-	-	-	-	-	-	46	Ø16,5	Ø140	46	Ø20,5	Ø165
300	36	364	75	180	160	-	-	-	-	-	-	36	Ø16,5	Ø140	36	Ø20,5	Ø165
	46	364	75	180	160	-	-	-	-	-	-	46	Ø16,5	Ø140	46	Ø20,5	Ø165
350	36	380	75	180	160	-	-	-	-	-	-	36	Ø16,5	Ø140	36	Ø20,5	Ø165
	46	380	75	180	160	-	-	-	-	-	-	46	Ø16,5	Ø140	46	Ø20,5	Ø165
400	36	493	130	300	160	-	-	-	-	-	-	36	Ø16,2	Ø140	36	Ø20,5	Ø165
	46	493	130	300	160	-	-	-	-	-	-	46	Ø16,2	Ø140	46	Ø20,5	Ø165
450	36	495	130	300	160	-	-	-	-	-	-	36	Ø16,2	Ø140	36	Ø20,5	Ø165
	46	495	130	300	160	-	-	-	-	-	-	46	Ø16,2	Ø140	46	Ø20,5	Ø165
500	46	535	130	300	160	-	-	-	-	-	-	46	Ø16,2	Ø140	46	Ø20,5	Ø165
600	CONTACT US																
700																	
800																	
900																	
1000																	

Other Dimensions: On Request *According to standard

** Multistandard bracket

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Available Kits

DN	ISO 5211 FIXINGS		WEIGHT OF KIT	PRODUCT CODE
	CONNECTION	DRIVE* 45)		
DN200	F10/F12	22	Contact us	KIT0038
	F10/F12	36		KIT0166
DN250	F10/F12	27		KIT0163
	F10/F12	36		KIT0182
	F14/F16	46		KIT0141
DN300	F14/F16	36		KIT0032
DN350	F14/F16	46		KIT0140
DN400	F14/F16	36		KIT0142
	F14/F16	46		KIT0167
DN450	F14/F16	36		KIT0168
	F14/F16	46		KIT0167
DN500	F14/F16	36		KIT0168
	F14/F16	46		KIT0169
DN600 to DN1000	Contact us			

*SQ = Square Drive 45°

Minimum operating torque required to actuate valve

DN	MINIMUM REQUIRED TORQUE (Safety Coefficient x2 included)
	PPH / PVDF / PVC-U / PVC-C
DN200	360 N.m
DN250	660 N.m
DN300	900 N.m
DN350	1200 N.m
DN400	1200 N.m
DN450	1200 N.m
DN500	1500 N.m
DN600 to DN1000	CONSULT US

OPTION: PNEUMATIC ACTUATION

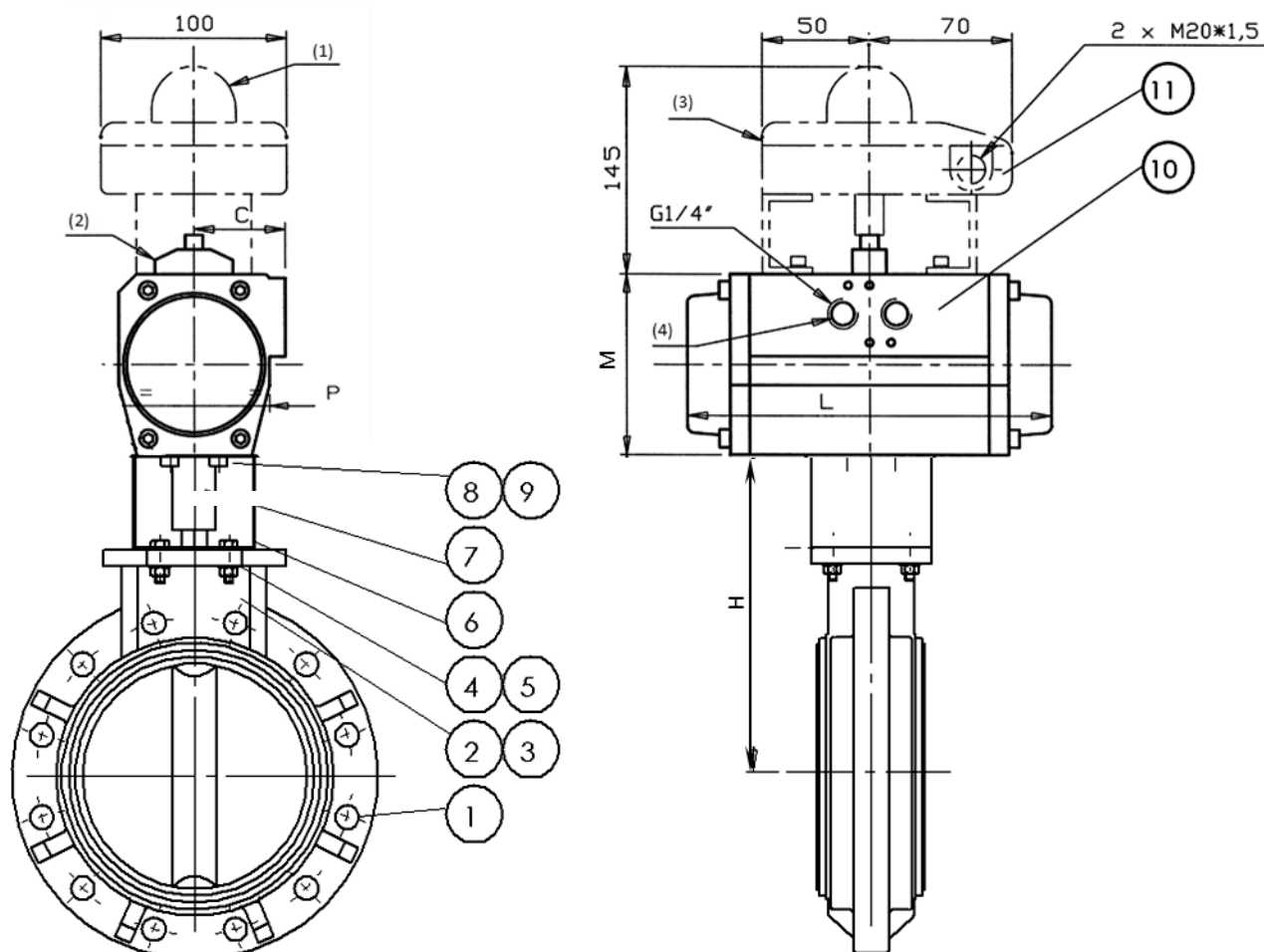


Diagram representing assembly on a DN200

N°	QTY	DESCRIPTION	MATERIAL
1 to 9		See page 11	
10	1	Actuator Double Acting or Fail Safe	Polyamide or Aluminium or Stainless Steel
11	1	Limit Switch Box (option)	Aluminium Or Stainless Steel

(1) Visual position indicator of Limit Switch Box.

(2) Visual position indicator of Actuator

(3) Limit Switch Box (option)

(4) NAMUR mounting pattern for electro pneumatic control

Pneumatic Actuator recommendation according to DN

ALUMINIUM Actuator

DN	ACTUATOR	ISO 5211 FIXINGS		H	C	L	M	P	WEIGHT of Actuator in Kg	PRODUCT CODE	MATERIAL		
		CONNECTION	DRIVE DSS*										
DN200	Double Acting (DA)	F07/F10	22	See dimensions for each DN on page 12	73	367	168,5	145	10,65	2007-83I	Actuator in Aluminium		
	Fail Safe	F10/F12	36		114	467	257	230	13,21	2007-84L (NC) 2007-85L (NO)			
DN250	Double Acting (DA)	F10/F12	27		91	428	202	181	18,50	2007-83K			
	Fail Safe	F16	46		169	636	328	338	82,96	2007-84N (NC) 2007-85N (NO)			
DN300	Double Acting (DA)	F10/F14	36		114	467	230	230	42,30	2007-83L			
	Fail Safe	F16	46		169	636	328	338	82,96	2007-84N (NC) 2007-85N (NO)			
DN350	Double Acting (DA)	F10/F14	36		114	525	257	230	36,20	2007-83M			
	Fail Safe	F16	46		169	734	328	338	98,00	2007-84O (NC) 2007-85O (NO)			
DN400	Double Acting (DA)	F10/F14	36		114	525	257	230	36,20	2007-83M			
	Fail Safe	F16	46		169	734	328	338	98,00	2007-84O (NC) 2007-85O (NO)			
DN450 to DN1000	CONTACT US												

*DSS =Double Square Somet

OPTION: ELECTRIC ACTUATION

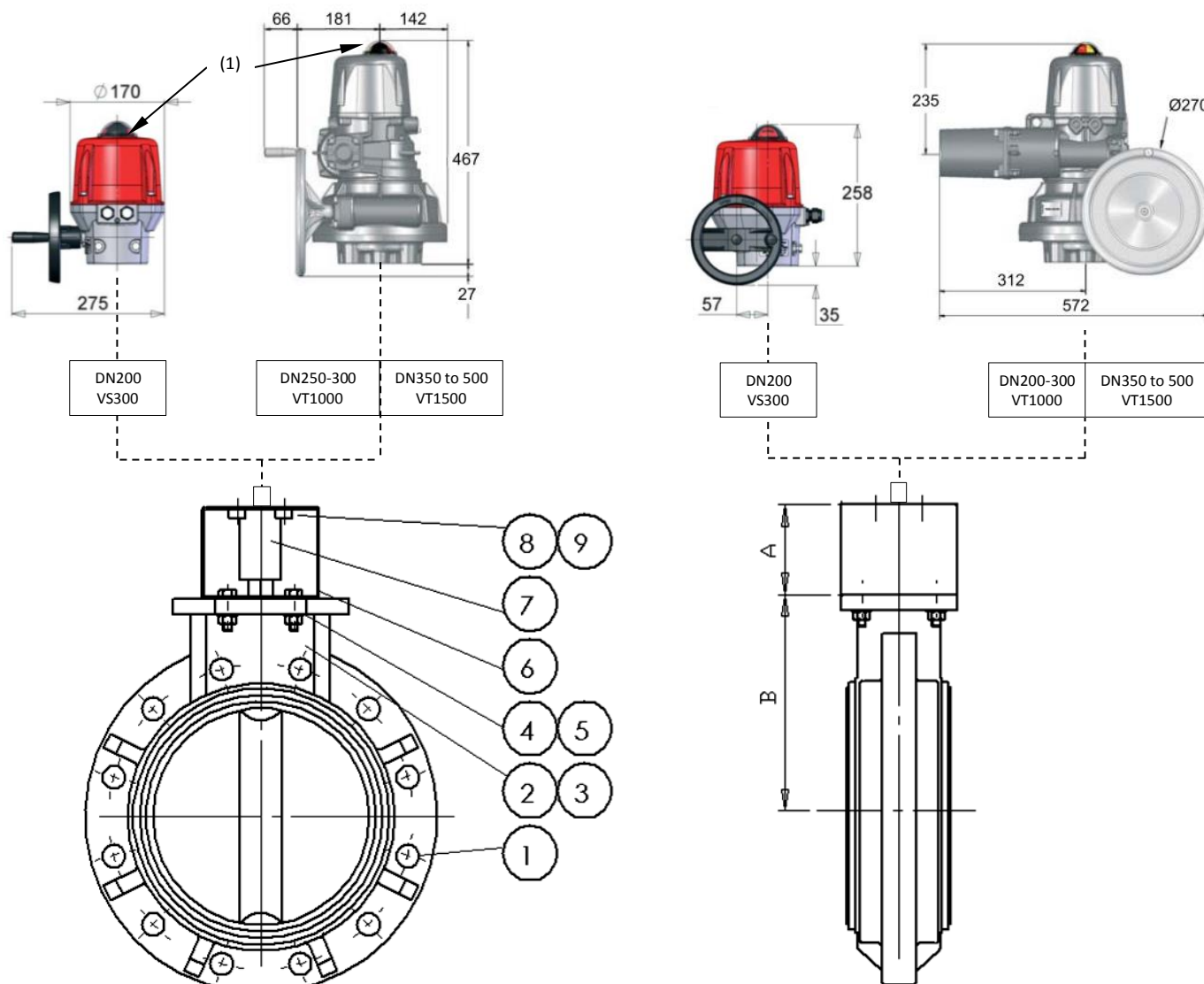


Diagram representing assembly on
a DN200

1) Visual position indicator

N°	QTY	DESCRIPTION	MATERIAL
1 to 9		See page 7	

Electric Actuator recommendation according to DN

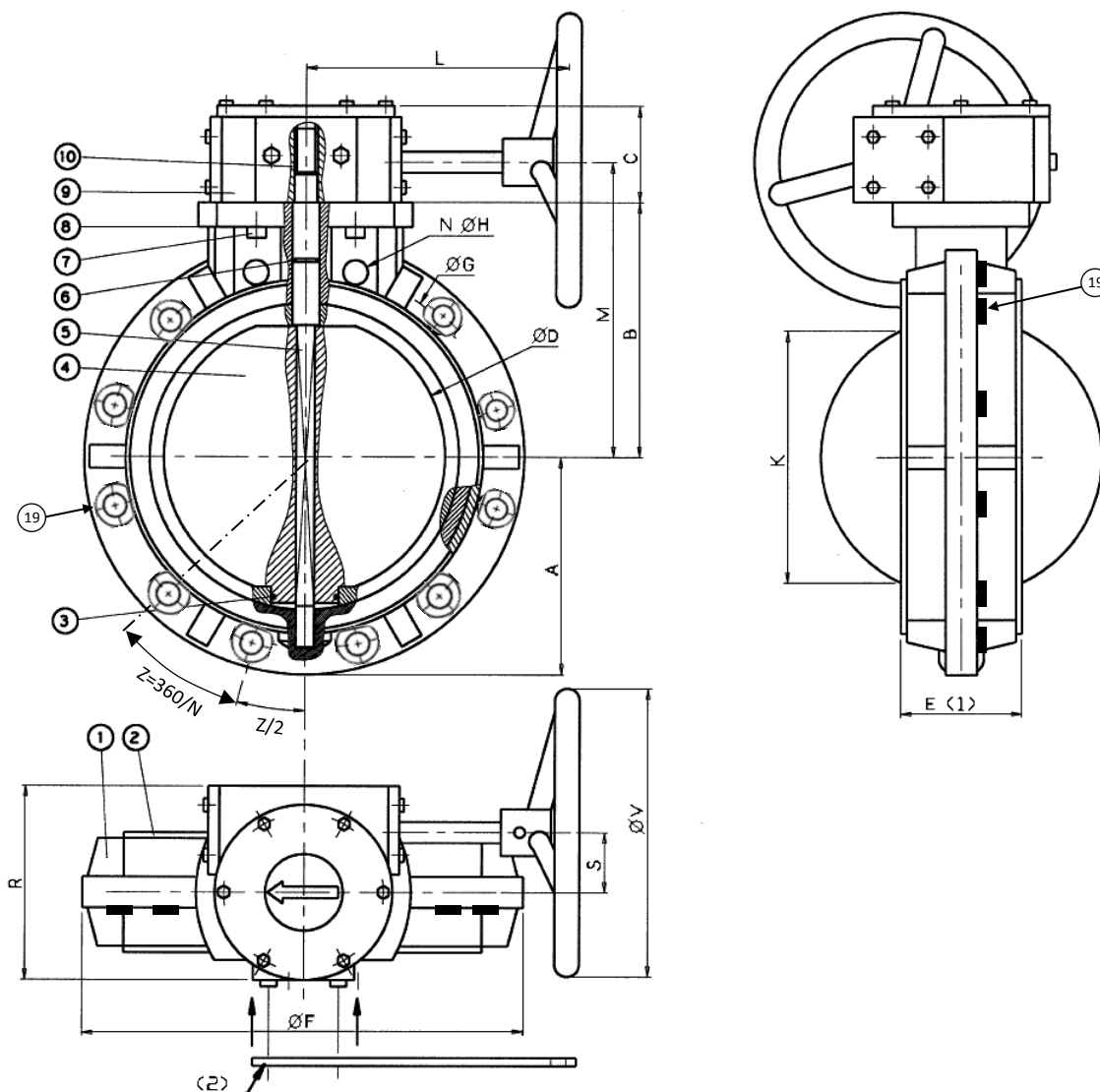
DN	MODEL	ISO 5211 FIXINGS		H	WEIGHT KG	PRODUCT CODE	MATERIAL	ROTATION 90°
		CONNECTION	DRIVE DSS*					
DN200	VT600 (100-240V AC 100-350V DC)	F10-F12	36	See dimensions for each DN on page 12	1 TO 2,1	2907-48A	Aluminium + PA6	38s
	VT600 (400V three phase)	F10-F12	36		24	2907-48B	Aluminium + PA6	38s
DN250 and DN300	VT1000 (230V AC)	F10-F112	36		24	2907-51A	Aluminium + PA6	38s
	VT1000 (400V three phase)	F10-F12	36		24	2907-51B	Aluminium + PA6	38s
DN350 to DN500	VT1500 (230V)	F14-F16	46		53	2907-52A	Aluminium + PA6	113s
	VT1500 (400V three phase)	F14-F16	46		53	2907-52A	Aluminium + PA6	113s
DN600 to DN1000	SPECIAL PRODUCTS, CONTACT US							

*DSS = Double Square Socket

Find all the information concerning these actuators by consulting our TDS-ACTEL-0001 product sheet

Multiple Options Available: Contact us for more information

OPTION: FIXING SYSTEM « LUG »



N°	QTY	DESCRIPTION	MATERIAL
1 to 18		See page 3	
19	4 to 8	LUG	SS 304

SS 316 LUG : Contact us

DN	Nbr.		LUG Thread
	DIN	ANSI	
DN200	8	8	M20
DN250-300	12	12	M20
DN350	16	12	M20
DN400	16	16	M24
DN450	20	16	M24
DN500	20	20	M24
DN600	20	20	M27
DN700-1000	SPECIAL PRODUCTS, CONTACT US		

OPTION: LOCKING SYSTEM

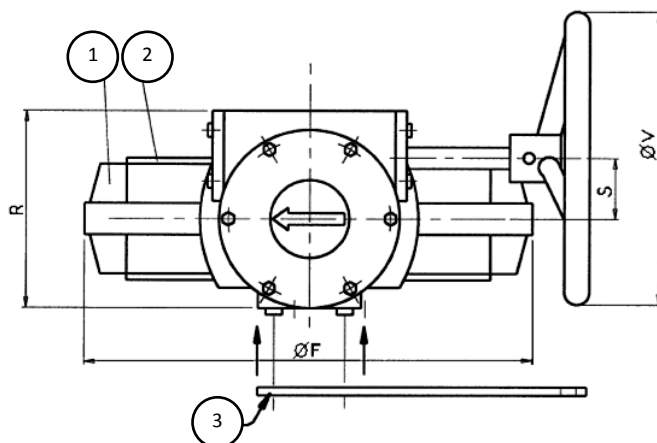


Diagram representing a DN200

N°	QTY	DESCRIPTION	MATERIAL
1 to 2		See page 3	
3		Locking Plate	

Operation:

The use of a padlock blocks the movement of the steering wheel locking the butterfly valve

The Locking

system does not include Padlock.

OTHER AVAILABLE OPTIONS

. Limit Switch Box

. Chain Operation

Contact us, for more information on the Available Options

DETERMINING A PRODUCT CODE

TYPE	SPECIFICATION	DN	-	-	Seal and O-rings
3600 = PVC-U 3610 = PVC-C 3700 = PP-H 3800 = PVDF	- = Flanges with drilling in accordance with EN 1092-1 PN10/PN16 (DIN) A = Flanges with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI) W = Without Gearbox, Squared Stem for Actuation I = Stem in SS 316 P = Butterfly in PVDF	11 = DN200 12 = DN250 13 = DN300 14 = DN350 15 = DN400 16 = DN450 17 = DN500 18 = DN600 19 = DN700 (PP-H) 20 = DN800 (PP-H) 21 = DN900 (PP-H) 22 = DN1000 (PP-H)	W	W	E = EPDM V = FPM

Example: 3600-15WWE

3600	-	15	W	W	E
PVC-U Body and Butterfly	Flanges with drilling in accordance with EN 1092-1 PN10/PN16 (DIN)	DN400	-	-	EPDM Seal and O-rings

Example: 3700AP11WWV – mixed butterfly valve (PP-H body and PVDF butterfly)

3700	A	P	11	W	W	V
PP-H Body	Flanges with drilling in accordance with EN1759-1/ASME B16.5 Class 150 (ANSI)	PVDF Butterfly	DN200	-	-	FPM Seals and O-rings

Example: 3700-17WWV + LUG

3700-17WWV	+	LUG
PP-H Butterfly Valve DIN Flanges EN1092-1 PN10/PN16 DN500 FPM Seal and O-rings	+	M24 LUG FIXING