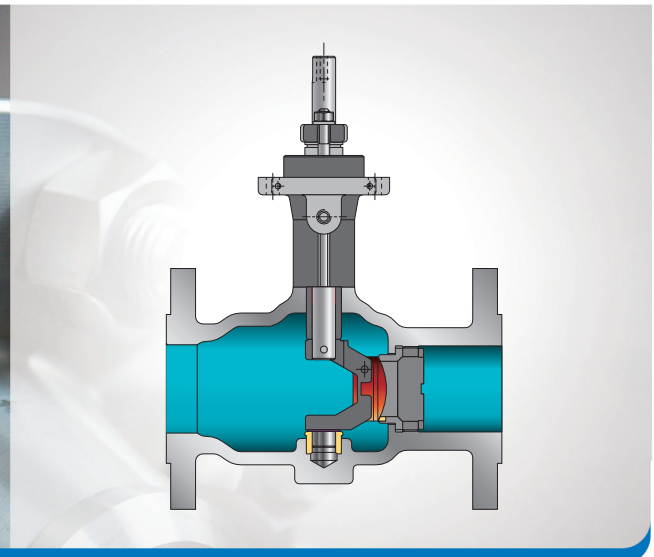
BUTTERFLY VALVES
VA5001.S®

VALVEA






version 06/2020

USE

Butterfly valves **VA5001.S** are used in automatic systems and remote-control applications for liquid, steam or gas control. Due to its excellent tightness, the valves can be used as stop valves or as control valves with an angle of rotation between 25…75°. The great variety of design and material executions allows using the valves in many technical applications such as chemical industry, petrochemistry, food industry, energy sector, metallurgy, paper industry, etc.

FEATURES

- Tightness of the seal up to 2,0 MPa of a pressure drop
- Valve cuff is reinforced by an aluminium ring
- Wide variety of material executions of the cuff allows to select the optimal solution for all types of medium
- Self-lubricating bearings of the valve shaft
- Wide range of flow coefficients
- Variety of actuators: adjustable hand lever, handwheel with gearbox, pneumatic, electric

DESIGN AND TECHNICAL SPECIFICATION

Body (1):

Nominal sizes: DN40 …DN1000

Nominal pressure: PN2,5, PN6, PN10, PN16
ANSI150

Connestion: wafer – installed between flanges
lug – installed on a flange

cast iron EN-JL1040
ductile iron EN-JS1025
carbon steel Fe G45 VR
stainless steel X5CrNiMo 1713
bronze G-Cu Al11Fe4Ni4
aluminium G-Al Si 13

Valve shaft (2):

Materials: stainless steel X12Cr S 13
stainless steel X5 Cr Ni Mo 1713
stainless steel 17-4 PH
Hastelloy C
Monel K
Titan

Valve cuff (6): Aluminium ring reinforcement

Materials: EPDM
EPDM HT
NBR
Silicone Q
VITON
Neoprene
Rubber NR
PTFE
Hypalon

Table 1

Symbol	Working temp. [°C]	Recomended mediumdium	Forbidden medium
EFDM	-35 ... +110	Water, steam, sea water, saline solution, ketones, bases, dilute acids	Hydrocarbons, oils, fats
EFDM-HT	-35 ... +150		
NBR (Buna N)	-18 ... +90	Sea water, hydrocarbons, natural gas, oils, air	Dilute acids, benzene, solvents
NR (natural rubber)	-35 ... +65	Abrasive, non-aggressive products	Steam, solvents, acids, hydrocarbons
VMQ (silikon)	-35 ... +150	Food products	Acids, steam, hydrocarbons
FKM (Viton)	-10 ... +160	Acids, oils, hydrocarbons, gasoline	Steam, Freon, bases, ketones, solvents
CR (Neopren)	-18 ... +90	Oils, food products	Solvents, acids, ketones
CSN (Hypalon)	-18 ... +100	Acids, organic acids, oils, fats	Nitric acid, steam, ketones

Table 2 Flow coefficient K_{VS} [m^3/h]

DN		40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Rotation angle	25°	3	6	10	15	28	60	98	170	260	380	500	650	900	1125	1500
	30°	5	9	15	22	42	88	145	250	390	550	750	900	1250	1600	2250
	40°	11	17	26	38	73	155	250	420	670	1000	1300	1700	2300	2800	3800
	50°	18	27	42	63	120	250	410	700	1150	1600	2200	2650	3700	4600	6100
	60°	26	53	83	125	235	490	800	1300	2150	3100	4100	5100	7100	8700	11750
	70°	45	70	105	160	305	625	1030	1750	2750	4050	5100	6500	9200	11500	16500
	75°	55	90	130	205	400	830	1350	2200	3600	5000	6700	9000	12000	15000	20500
	80°	70	105	160	240	475	1000	1650	2750	4300	6050	8100	10800	14000	17500	24000
	90°	80	130	200	300	550	1125	1950	3250	5000	7500	10000	12500	17500	22000	28000

Fig. 1 Dependence of the flow coefficient kv=Kv/Kvs on the angle of rotation of the butterfly valve

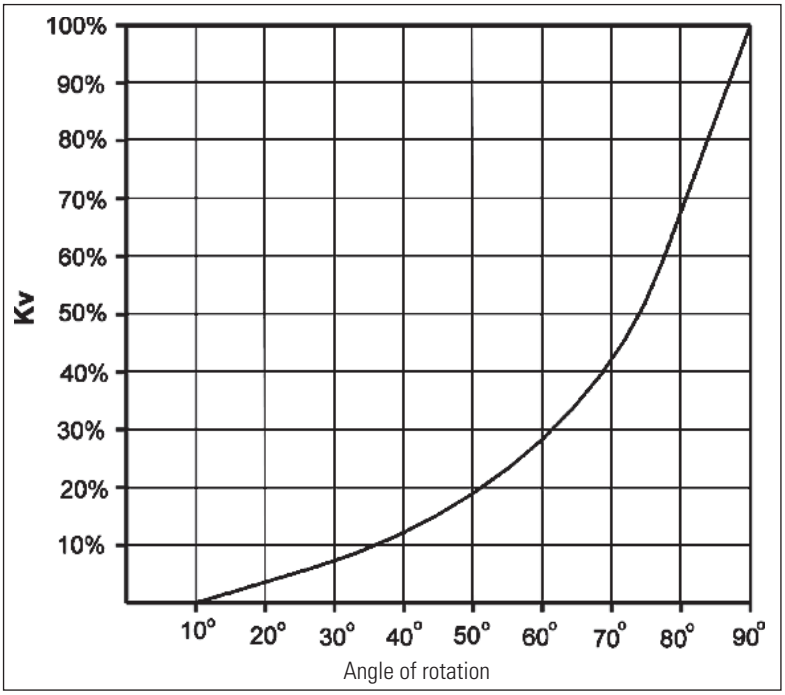
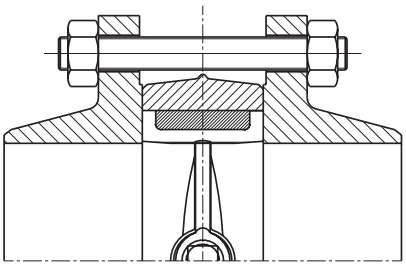
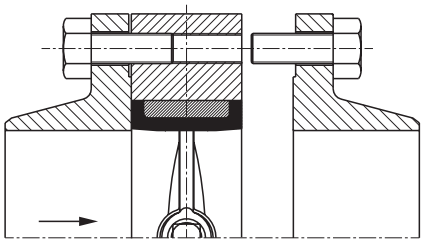


Fig. 2 Execution of the butterfly valve and its connection to a pipepline



VA5001-1



VA5001-2

Table 3. The list of components with materials for VA5001.S DN40 - DN300

Item.	*Part name*	*Material*
1	body	Cast iron EN-JL 1040
		Ductile iron EN-JS 1025
		Carbon steel Fe G45 VR
		Stainless steel X5 Cr Ni Mo 1713
		Bronze G-Cu Al 11 Fe4 Ni4
		Aluminium G-Al Si 13
2	upper shaft	Stainless steel- X12 Cr S 13
3	lower shaft	Stainless steel- X5 Cr Ni Mo 1712
		Stainless steel- 17-4 PH
		Hastelloy C
		Monel K
		Titan
4 5	"O" ring	Buna N
		Viton
6	cuff material	Buna N
		EPDM
		EPDM HT
		Natural rubber
		Neoprene
		Hypalon
		Viton
		Silicone
7	disc material	Cast iron EN-JL 1040
		Ductile iron EN-JS 1025
		Carbon steel Fe G45 VR
		Stainless steel I X5 Cr Ni Mo 1713
		Rolled stainless steel
		Stainless steel - X5 Cr Ni Mo 1712
		Bronze G-Cu Al 11 Fe4 Ni4
		Hastelloy C
		Titanium
		Rubbered
8	"O" ring	BUNA N / buna N
		VITON / viton
9	plug	Carbon steel

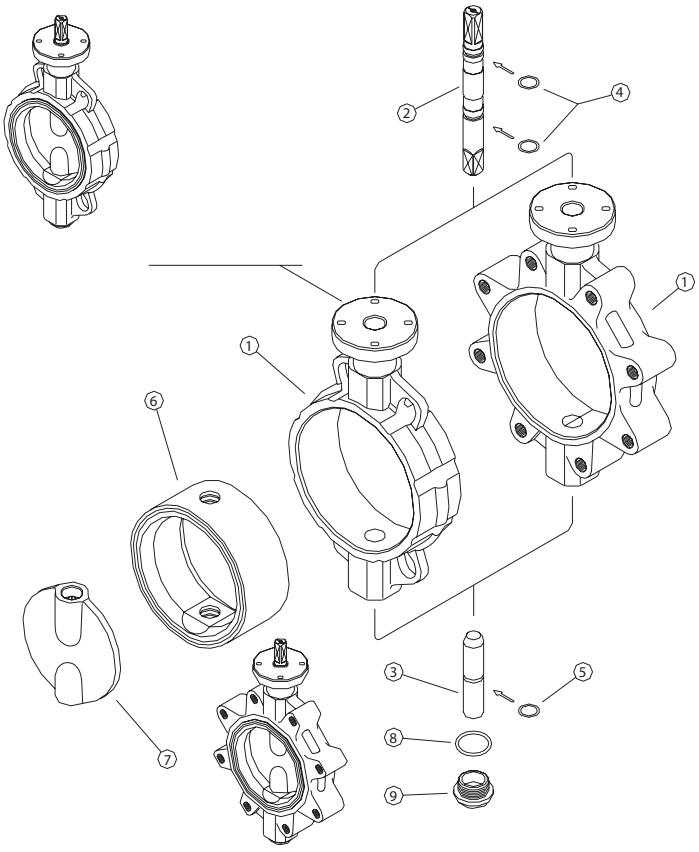
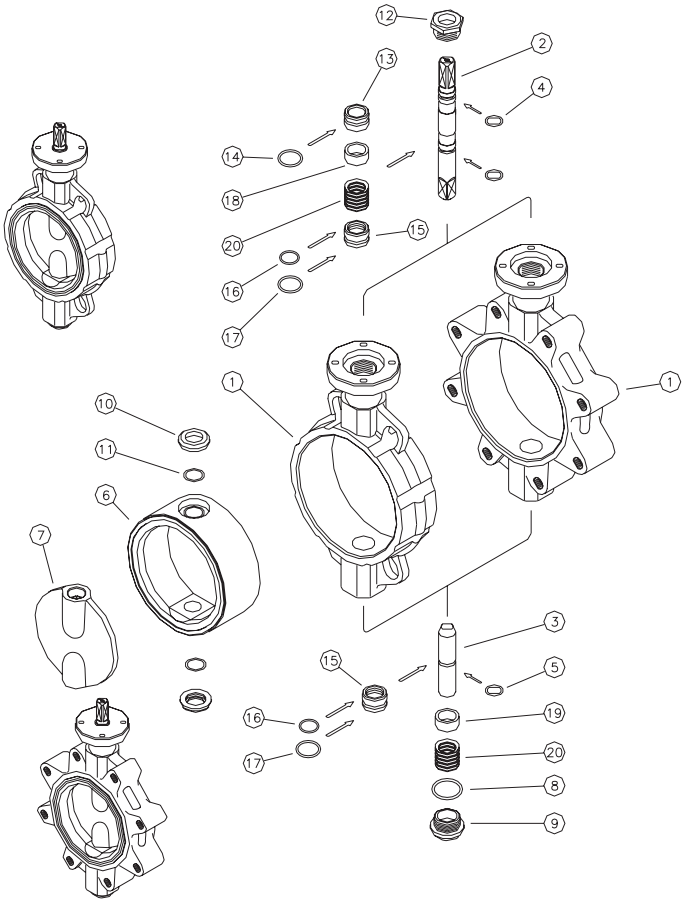


Table 4. The list of components with materials for VA5001 and PTFE cuff

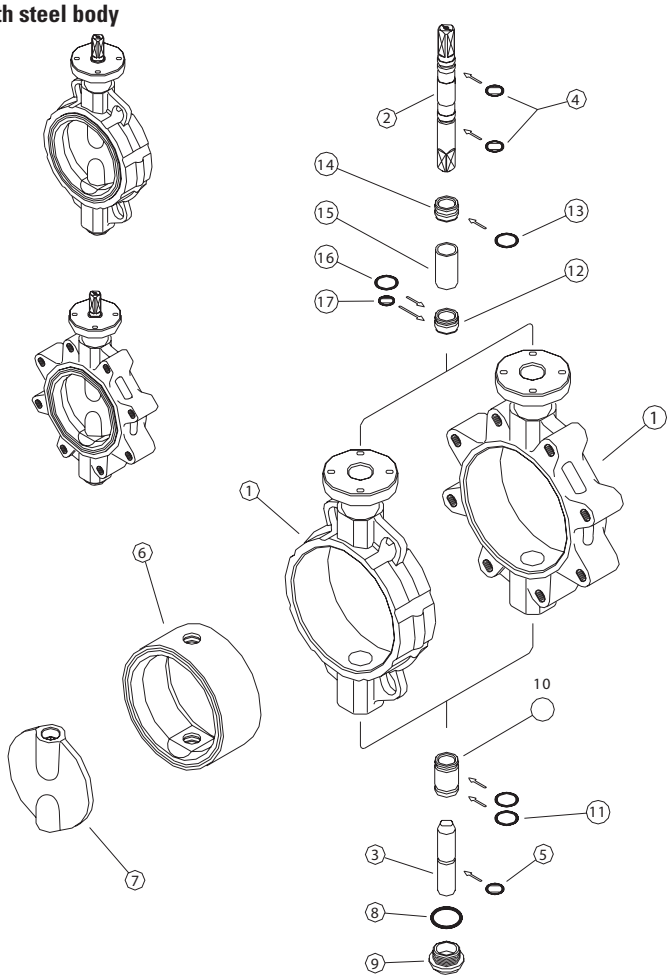


Item.	*Part name*	*Material*
1	Body	Cast iron EN-JS 1025 Carbon steel Fe G45 VR Stainless steel X5 Cr Ni Mo 1713 Aluminium G-Al Si 13
2	Upper shaft	Stainless steel X12 Cr S 13 Stainless steel X5 Cr Ni Mo 1713 Stainless steel 17-4 PH
3	Lower shaft	Stainless steel X5 Cr Ni Mo 1713 Stainless steel 17-4 PH Stainless steel X12 Cr S 13
4	„O“ ring	Viton
5	„O“ ring	Viton
6	Cuff material	PTFE
7	Disc material	Carbon steel Fe G45 VR Stainless steel X5 Cr Ni Mo 1713
8	„O“ring	PTFE
9	Plug	Stainless steel
10	Spacer	AVP
11	„O“ ring	Viton
12	Oval nut	Carbon steel
13	Housing	AVP
14	„O“ ring	Viton
15	Housing	AVP
16	„O“ ring	Viton
17	„O“ ring	Viton
18	Upper spacer	AVP
19	Lower spacer	AVP
20	Spring	

Table 5. The list of components with materials for VA5001 with steel body

Pol.	*Název součástí*	*Materiál*
1	Body	Carbon steel A216 WCB
2	Upper shaft	Stainless steel AISI416
3	Lower shaft	Stainless steel AISI416
4	„O“ ring	Viton
5	„O“ ring	Viton
6	Cuff material	EPDM
7	Disc material	Carbon steel A216 WCB
8	„O“ ring	Viton
9	Plug	Stainless steel
10	Spacer	Bronze
11	„O“ ring	Viton
12	Housing	Bronze
13	„O“ ring	Viton
14	Housing	Bronze
15	Spacer	Steel
16	„O“ ring	Viton
17	„O“ ring	Viton

Coloured items = recommended spare parts



VALVE CONTROL

Table 6. Required torque [Nm.

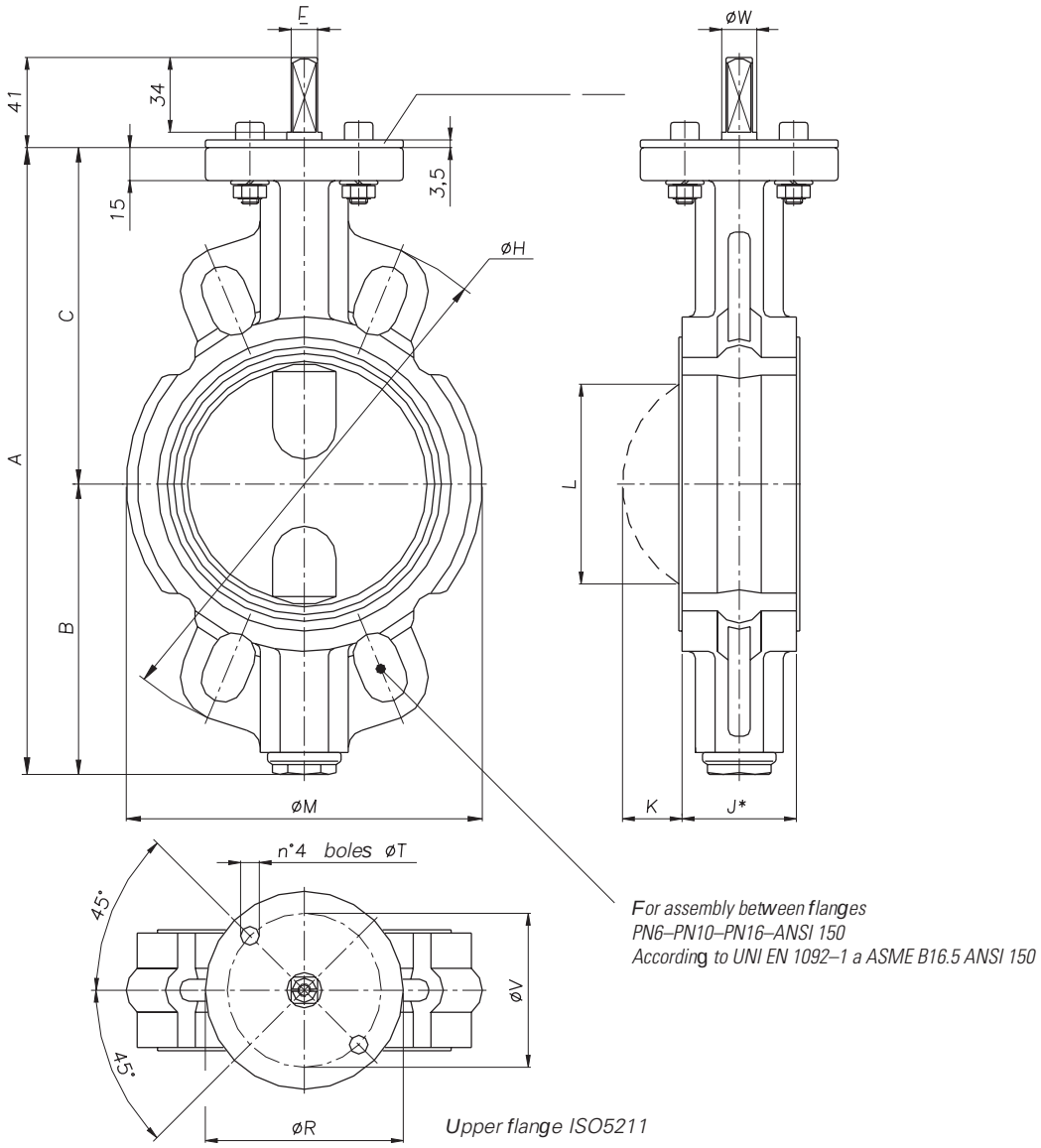
	VALVE SIZE			
DELTA p	28“ 700	32“ 800	36“ 900	40“ 1 000
7 bar	2 880	3 430	6 240	8 000
11 bar	4 800	5 720	10 400	14 540
18 bar	6 300	7 600	13 600	18 980
22 bar	7 680	9 150	16 000	23 260

Note:
Given torques are applicable for use with liquids. In case of a medium that does not lubricate such as air, gasses, and dry substances (dust, cement, etc.) it is necessary to increase the required torque by 50

Table 7. Required torque [Nm].

	VALVE SIZE			
DELTA p	28“ 700	32“ 800	36“ 900	40“ 1 000
7 bar	2 880	3 430	6 240	8 000
11 bar	4 800	5 720	10 400	14 540
18 bar	6 300	7 600	13 600	18 980
22 bar	7 680	9 150	16 000	23 260

Table 8. Wafer Butterfly Valve Dimensions DN40 – DN300

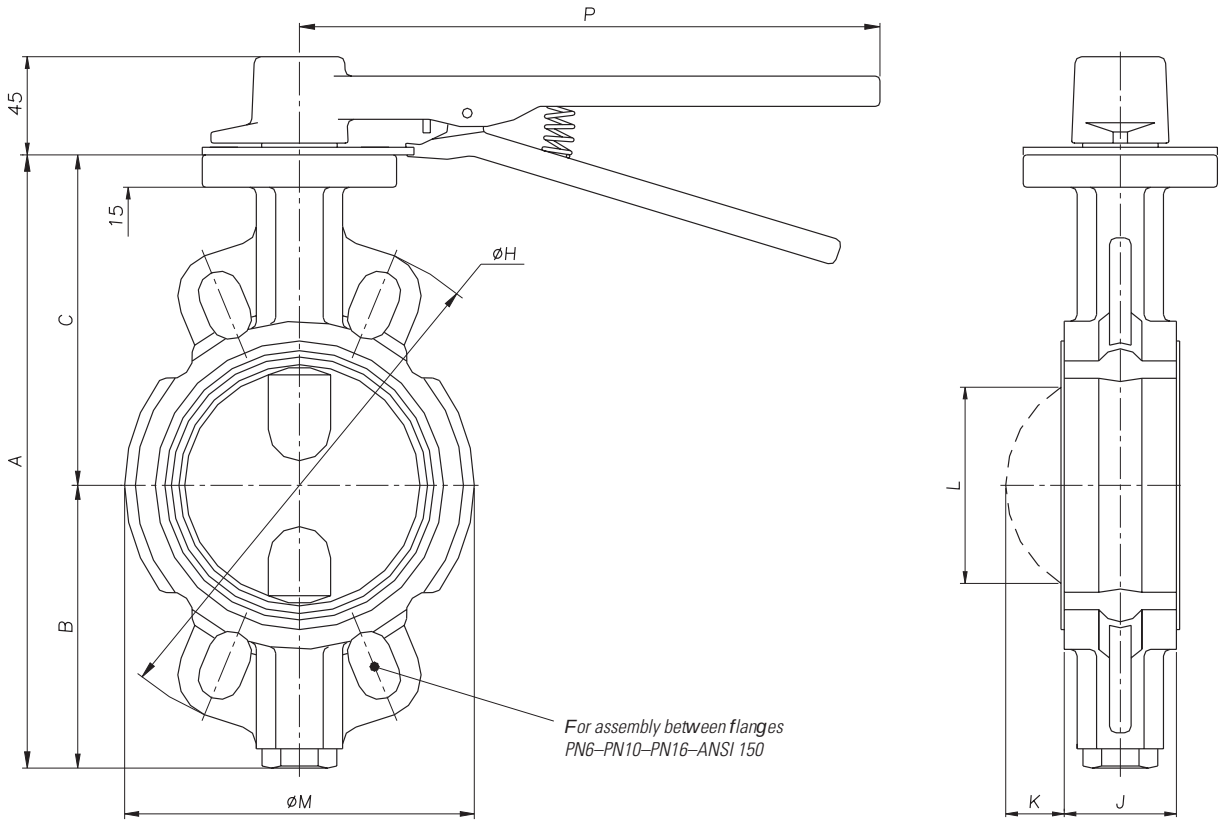


INC	1"½	2"	2"½	3"	4"	5"	6"	7"	8"	10"	12"
DN	40	50	65	80	100	125	150	175	200	250	300
A	189	206	231	251	286	327	359	366	419	495	561
B	91	97	109	119	133	150	165	165	194	220	264
C	98	109	122	132	153	177	194	201	225	275	297
E	12					16				18	22
øW	16					19,5				24	29
øH	145	160	180	198	230	256	286	310	348	414	490
J*	34	44	46	46	52	56,5	56,5	57	60	68	78
K	6,6	7,2	12,9	19,3	27,15	36,4	48,65	60	69,8	90	111,1
L	31	36	53	69	90	115	142	167,5	199	238	289
øM	90	103	122	140	162	200	220	248	270	328	392
øR	90									125	
øT	8,5									11	
øV	70									102	

** Dimension according to EN 558-1*

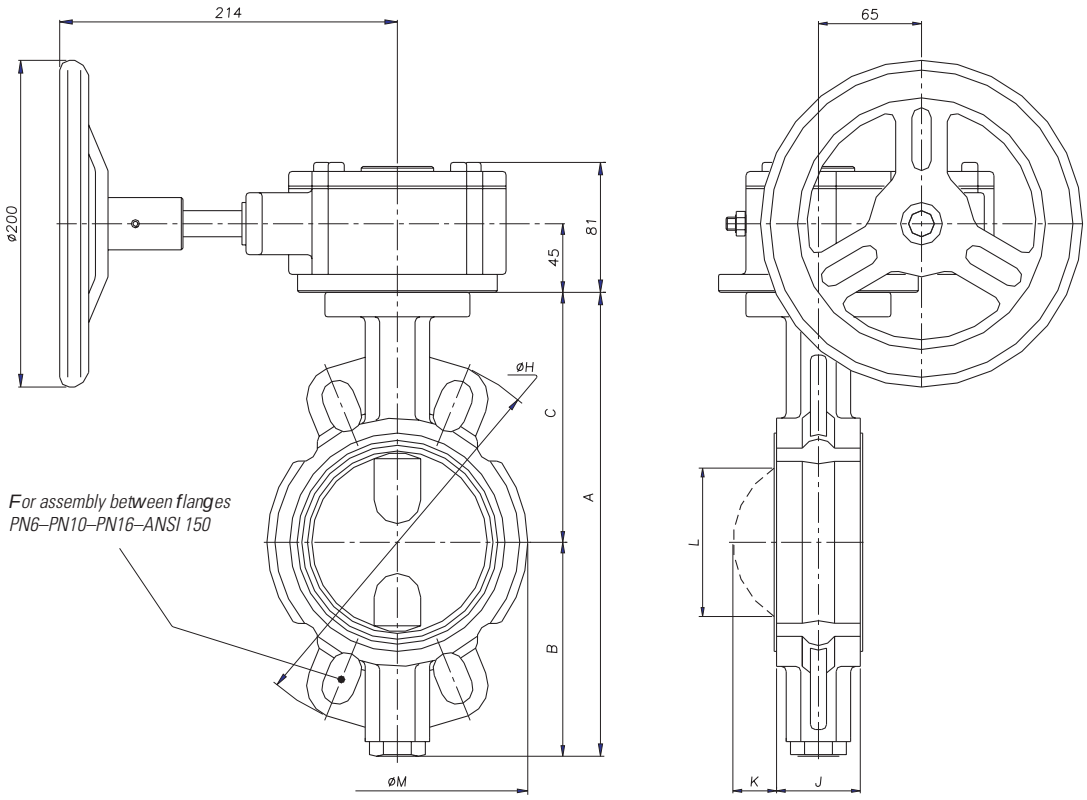
	WEIGHT										
Kg	2,2	2,9	3,9	4,2	5,0	7,4	8,5	10	11,8	18,5	29,8

Table 9. Wafer Butterfly Valve Dimension DN40 – DN600 with a Hand Lever



INC	1"1/2	2"	2"1/2	3"	4"	5"	6"	7"	8"	10"	12"
DN	40	50	65	80	100	125	150	175	200	250	300
A	188	205	230	250	285	327	359	373	419	495	559
B	90	96	108	118	132	150	165	172	194	220	262
C	98	109	122	132	153	177	194	201	225	275	297
øH	145	160	180	198	230	256	286	310	348	414	490
J	34	43,5	46	46	52	56,5	56,5	57	60	68	78
K	6,6	7,2	12,9	19,3	27,15	36,4	48,65	60	69,8	90	111,1
L	31	36	53	69	90	115	142	167,5	199	238	289
øM	90	103	122	140	162	200	220	243	263	263	382
P	313									407	
	WEIGHT										
Aluminium lever	3	3,7	4,7	5	5,8	8,2	9,3	10,8	12,6	19,3	30,6
Steel lever	3,7	4,4	5,4	5,7	6,5	8,9	10	11,5	13,3	20	31,3

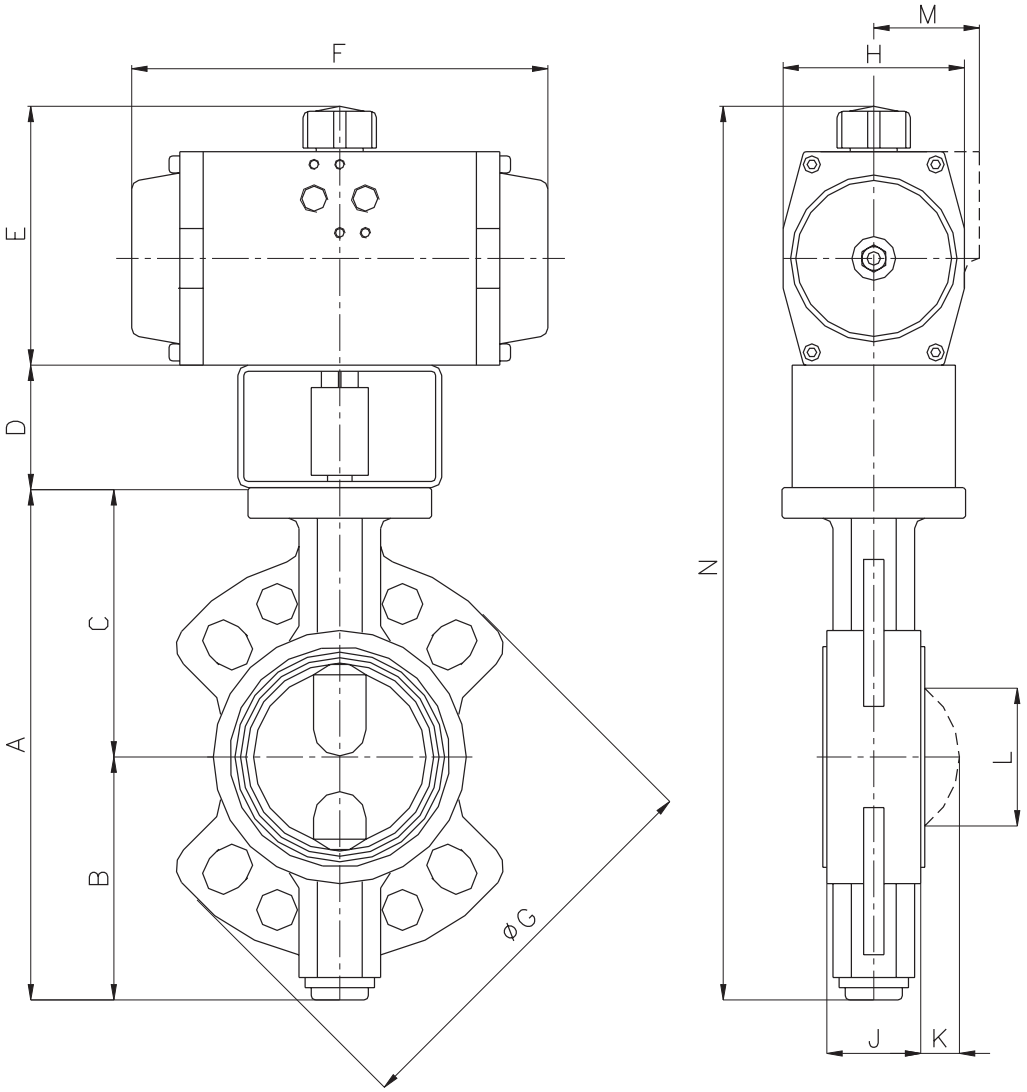
Table. 10 Wafer Butterfly Valve Dimensions DN40 – DN300 with a Gearbox RV1



INC	1"1/2"	2"	2"1/2"	3"	4"	5"	6"	7"	8"	10"	12"
DN	40	50	65	80	100	125	150	175	200	250	300
A	188	205	230	250	285	327	359	373	419	495	559
B	90	96	108	118	132	150	165	172	194	220	262
C	98	109	122	132	153	177	194	201	225	275	297
øH	145	160	180	198	230	256	286	310	348	414	490
J	34	43,5	46	46	52	56,5	56,5	57	60	68	78
K	6,6	7,2	12,9	19,3	27,15	36,4	48,65	60	69,8	90	111,1
L	31	36	53	69	90	115	142	167,5	199	238	289
øM	90	103	122	140	162	200	220	243	263	263	382

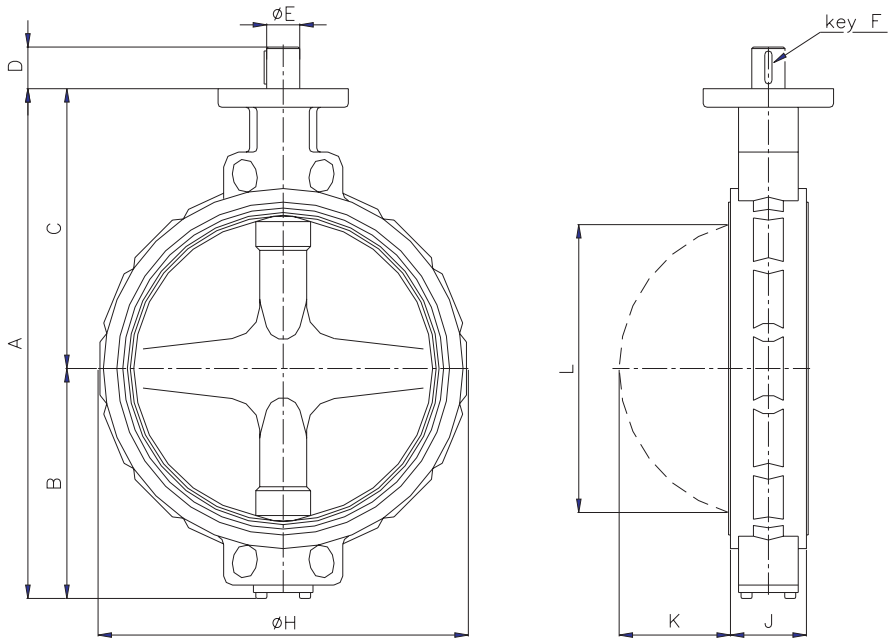
	WEIGHT										
Kg	9,7	10,4	11,4	11,7	12,5	15	16	17,5	19,3	26	29,8

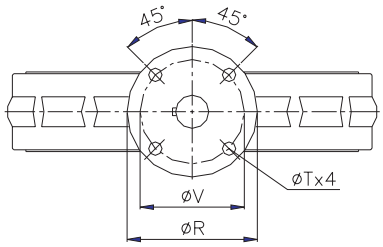
Table 10. Wafer Butterfly Valve Dimensions with a Pneumatic Actuator



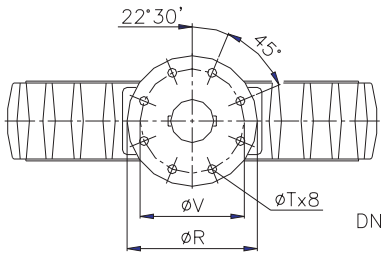
VALVE	AP TYPE	*A*	*B*	*C*	*D*	*E*	*F*	*G*	*L*	*J*	*K*	*H*	*M*	*N*	*(Kg)*
1" 1/2	AP2 DA	188	90	98	60	108	150	145	31	33	6,6	73	44,5	356	4,5
	AP2 SR														5
2"	AP2 DA	205	96	109	60	108	150	160	36	43	7,2	73	44,5	373	5,5
	AP3 SR					125	204					85	49,5	390	7
2" 1/2	AP3 DA	230	108	122	60	125	204	180	53	46	12,9	85	49,5	415	8
	AP4 SR					150	271					110	58	440	11
3"	AP3 DA	250	118	132	60	125	204	198	69	46	19,3	85	49,5	435	8,5
	AP4 SR					150	271					110	58	460	11,5
4"	AP3,5 SR	285	132	153	60	135	230	230	90	52	27,15	98	53	480	10,5
	AP4,5 SR					177	305					128	69	522	16
5"	AP4 DA	327	150	177	60	150	271	256	115	56	36,4	110	58	537	14,5
	AP5 SR					190	360					140	//	577	21,5
6"	AP4,5 DA	359	165	194	60	177	305	286	142	56	48,6	128	69	596	18,5
	AP5,5 SR				80	211	380					160	//	650	29
8"	AP5 DA	419	194	225	60	190	360	348	199	60	69,8	140	//	669	24,5
	AP6 SR				80	235	462					175		734	38
10"	AP5,5 DA	495	220	275	80	211	380	414	238	68	90	160	//	786	43
	AP8 SR				100	285	555					215		880	75
12"	AP6 DA	559	262	297	80	235	462	490	289	78	111,1	175	//	874	53
	AP8 SR				100	285	555							944	87

Table 11. Wafer Butterfly Valve Dimensions DN350 – DN1000 with a Bare Shaft





Drilling for
DN 350 (14") ÷ DN 600 (24")



Drilling for
DN 700 (28") ÷ DN 1000 (40")

key F:

DN350÷DN500 n°1 key 14x9x45 UNI6604 / DIN6885

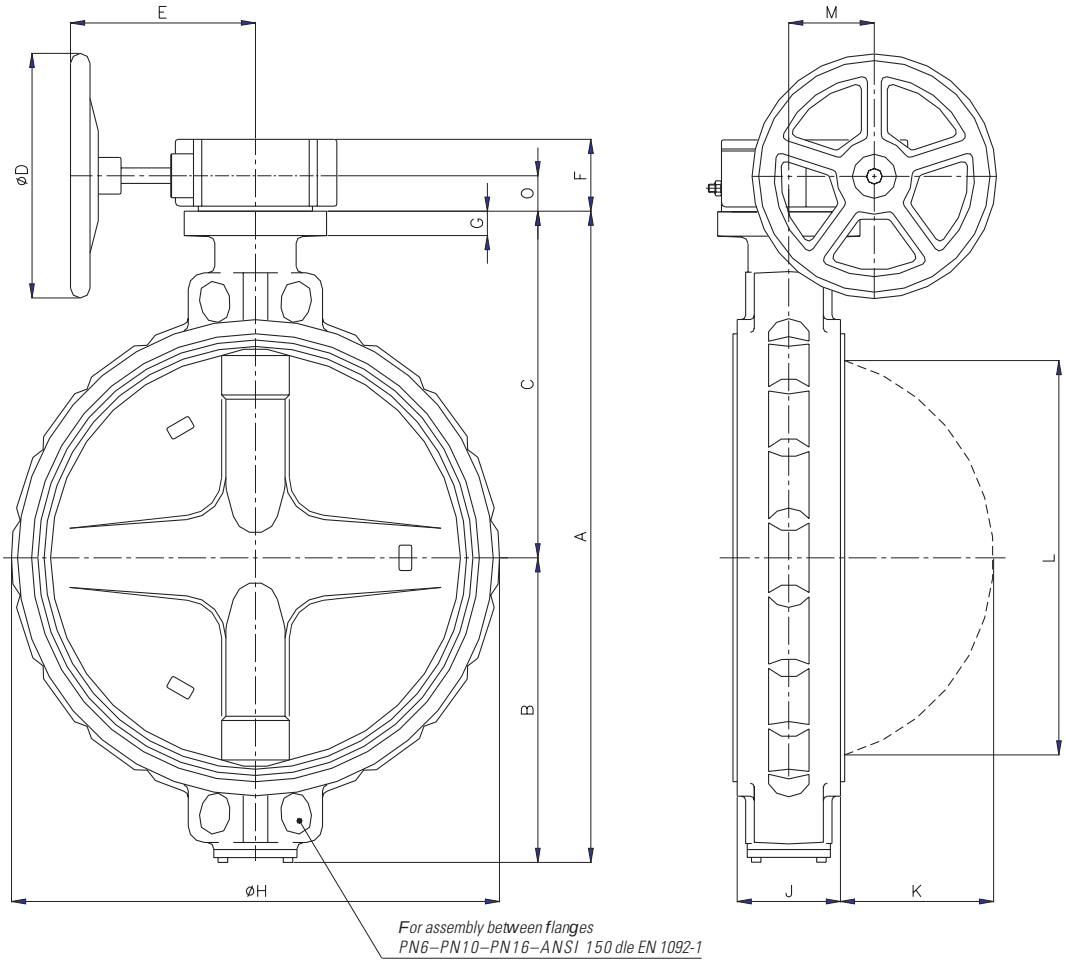
DN600 n°1 key 18x11x80 UNI6604 / DIN6885

DN700÷800 n°2 keys 22x14x80 on 180° UNI6604 / DIN6865

DN900÷1000 n°2 keys 25x14x110 on 180° UNI6604 / DIN6865

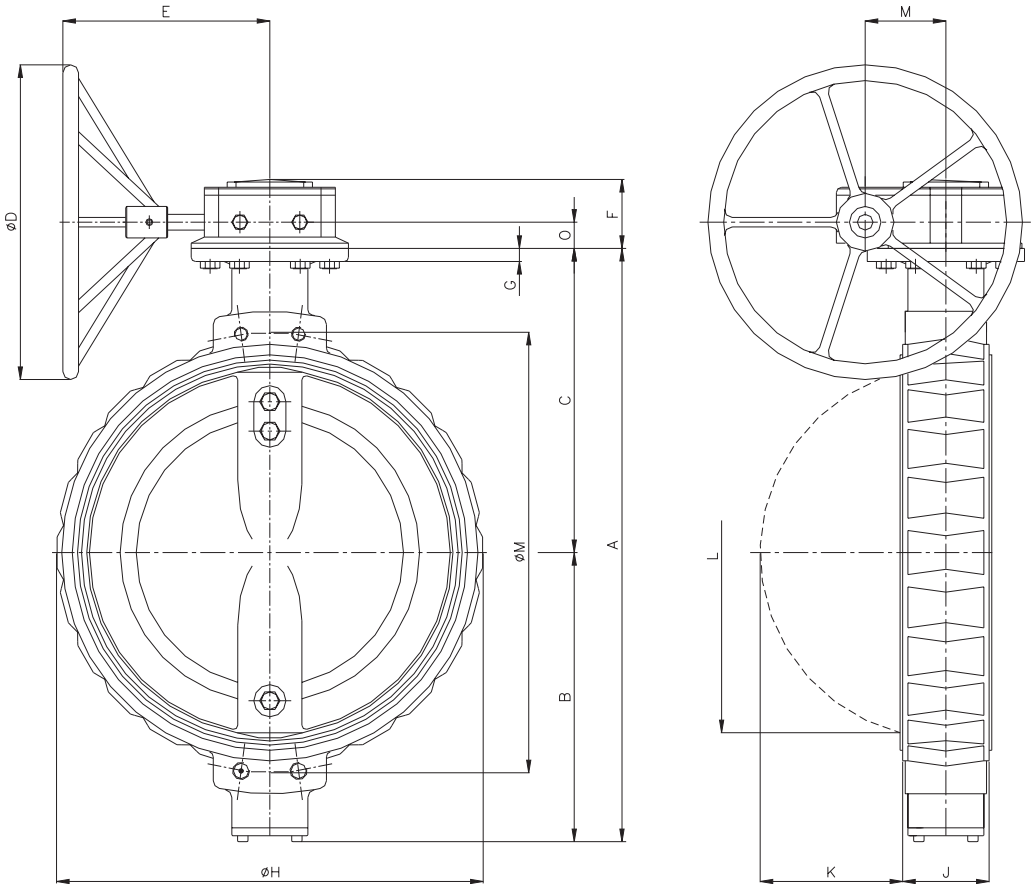
INC	14"	16"	18"	20"	24"	28"	30"	32"	36"	40"
DN	350	400	450	500	600	700	750	800	900	1000
A	632	681	749	800	936	1120	1195	1242	1350	1500
B	281	305,5	349	373	445	540	585	612	660	740
C	351	375,5	400	425	491	580	610	630	690	760
D	60				90				120	
øE	44,5				63	75			95	
G	25					30				
øH	436	483	540	580	710	792	860	925	1008	1135
J	78	102	114	127	155	165	190	190	203	216
K	126	138	157	179	218	261	274	304	339	383
L	324	367	417	468	572	666	719	774	858	957
øR	175			180	210	300		360		415
øT	17				22	17			22	
øV	140				165	254			298	
Kg	50	70	90	110	210	250	315	355	440	575

Table 13. Wafer Butterfly Valve Dimensions DN350 – DN600 with a Gearbox



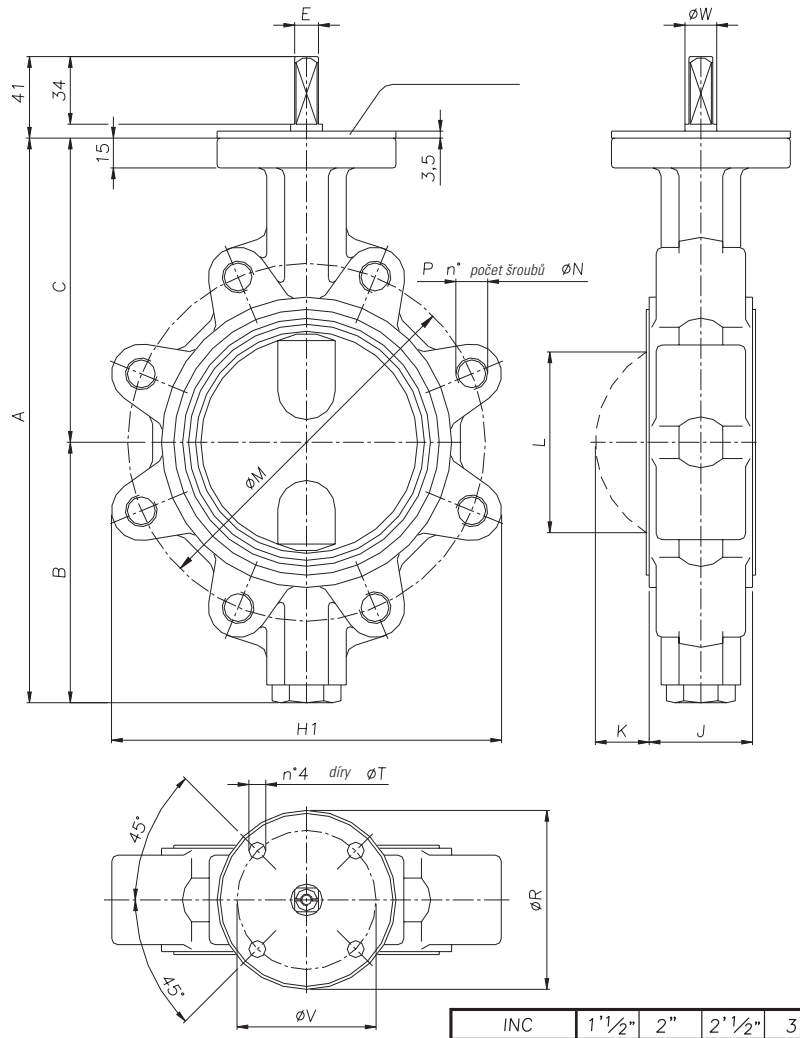
DN	350	400	450	500	600
inc	14"	16"	18"	20"	24"
A	632	681	749	798	936
B	281	303,5	349	373	445
C	351	375,5	400	425	491
G	25				
ØH	436	483	540	580	710
L	324	367	417	468	572
J	78	102	114	127	153
K	126	138	157	179	218
RV - Type	*RV2*				*RV3*
ØD	300				500
E	230				492
F	81				151
M	100				60
O	45				66

Table 14. Wafer Butterfly Valve Dimensions DN700 – DN1000 with a Gearbox



DN		700	750	800	900	1000
inc		28"	30"	32"	36"	40"
A		1120	1178	1242	1350	1490
B		540	570	612	660	730
C		580	608	630	690	760
G		28	28	28	30	
H		910	836	1040	1150	1260
L		666	724,5	774	858	957
ØM	PN6	810	865	920	1020	1120
	PN10	840	//	950	1050	1160
	PN16	840	//	950	1050	1170
	ANSI150	863,6	914,4	977,9	1085,85	1200,15
ØN	PN6	M22	M27	M27	M27	M27
	PN10	M27	//	M30	M30	M33
	PN16	M33	//	M36x3	M36x3	M39x3
	ANSI150	1"1/4UN - M33	1"1/4	1"1/2 UN - M36x3		
J		165	165	190	203	216
K		261	279,5	304	339	383
RV - Type		*RV4*	*RV4*	*RV5*	*RV6*	*RV7*
ØD		800	800	600	700	800
E		500	500	520	615	720
F		120	120	150	210	225
M		150	150	174	195	265
O		65	65	80	110	120

Table 15. Lug Butterfly Valve Dimensions DN40 – DN300

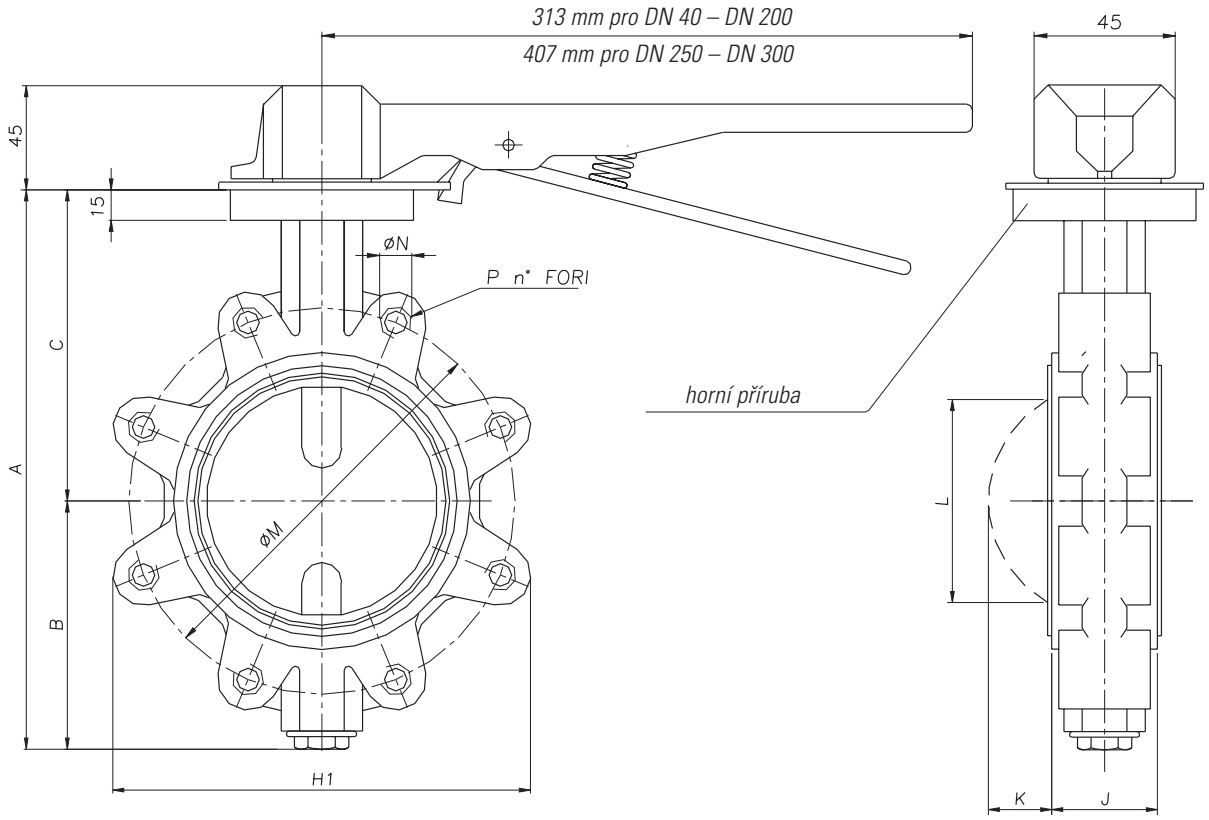


INC	1'1½"	2"	2'1½"	3"	4"	5"	6"	8"	10"	12"
DN	40	50	65	80	100	125	150	200	250	300
A	188	205	230	250	285	327	359	419	495	559
B	90	96	108	118	132	150	165	194	220	262
C	98	109	122	132	153	177	194	225	275	297
E	12					16			18	22
H1	111	120	138	150	213	243	267	320	402	473
J	34	43,5	46	46	52	56,5	56,5	60	68	78
K	6,6	7,2	12,9	19,3	27,15	36,4	48,65	69,8	90	111,1
L	31	36	53	69	90	115	142	199	238	289
øM PN6	100	110	130	150	170	200	225	280	335	395
øM PN10	110	125	145	160	180	210	240	295	350	400
øM PN16	110	125	145	160	180	210	240	295	355	410
øM ANSI150 inc	3" ⅞	4" ¾	5" ½	6"	7" ½	8" ½	9" ½	11" ¾	14" ¼	17"
øM ANSI150 mm	98,5	120,5	139,5	152,4	190,5	216	241,5	298,5	362	432
øN PN6	M12			M16						M20
øN PN10	M16					M20				
øN PN16	M16					M20		M22		
øN ANSI150	½"M14	⅝" M18				¾" M20			⅞" M22	
P PN6	4				4*	8			12	
P PN10	4			8					12	
P PN16	4			8			12			
P ANSI150	4				8				12	
øR	90								125	
øT	8,5								11	
øV	70								102	
øW	16					19,5			24	29

WEIGHT

Kg	2,6	3,5	4,9	5,4	7,0	10	11,1	17	27,4	40,4

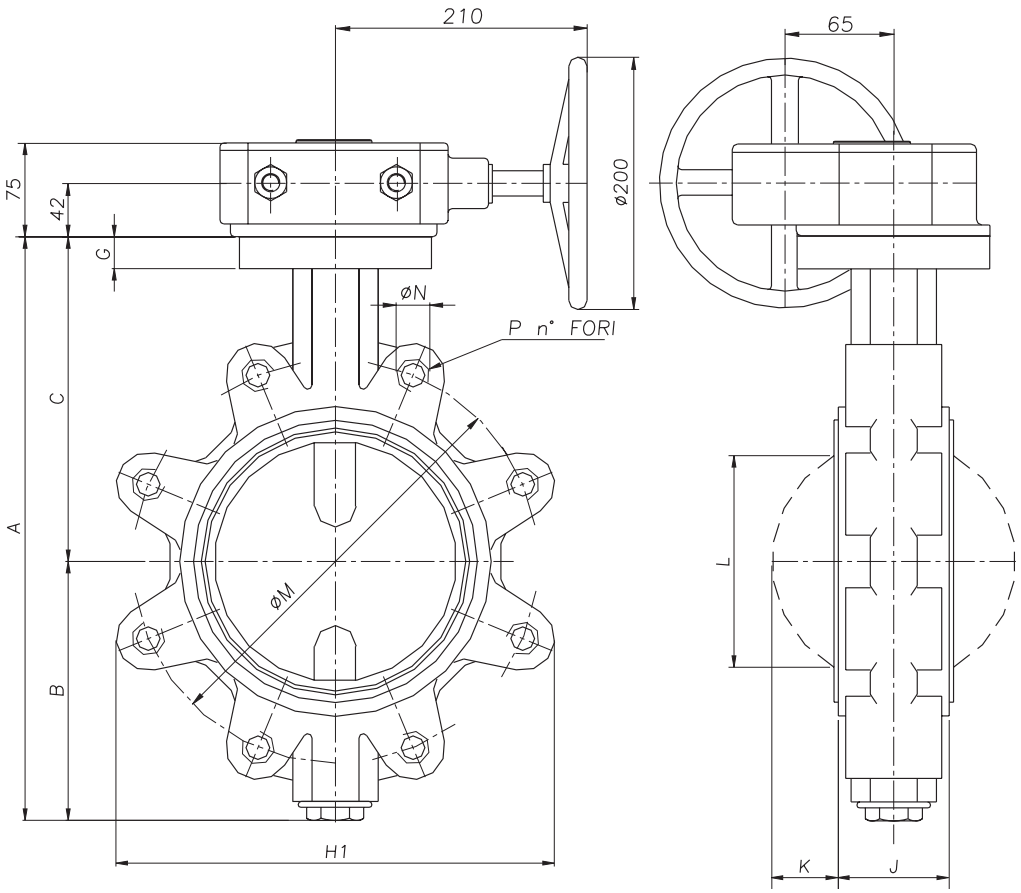
Table 16. Lug Butterfly Valve Dimensions DN40 – DN300 with a Hand Lever



INC	1"1/2"	2"	2"1/2"	3"	4"	5"	6"	8"	10"	12"
DN	40	50	65	80	100	125	150	200	250	300
A	188	205	230	250	285	327	359	419	495	559
B	90	96	108	118	132	150	165	194	220	262
C	98	109	122	132	153	177	194	225	275	297
E	12					16			18	22
H1	111	120	138	150	213	243	267	320	402	473
J	34	43,5	46	46	52	56,5	56,5	60	68	78
K	6,6	7,2	12,9	19,3	27,15	36,4	48,65	69,8	90	111,1
L	31	36	53	69	90	115	142	199	238	289
øM PN6	100	110	130	150	170	200	225	280	335	395
øM PN10	110	125	145	160	180	210	240	295	350	400
øM PN16	110	125	145	160	180	210	240	295	355	410
øM ANSI150 inc	3"7/8	4"3/4	5"1/2	6"	7"1/2	8"1/2	9"1/2	11"3/4	14"1/4	17"
øM ANSI150 mm	98,5	120,5	139,5	152,4	190,5	216	241,5	298,5	362	432
øN PN6	M12			M16						M20
øN PN10	M16						M20			
øN PN16	M16						M20		M22	
øN ANSI150	1/2"M14	5/8" M18				3/4" M20			7/8" M22	
P PN6	4				4*	8			12	
P PN10	4			8					12	
P PN16	4			8				12		
P ANSI150	4				8				12	
øR(*)	90								125	
øT(*)	8,5								11	
øV(*)	70								102	

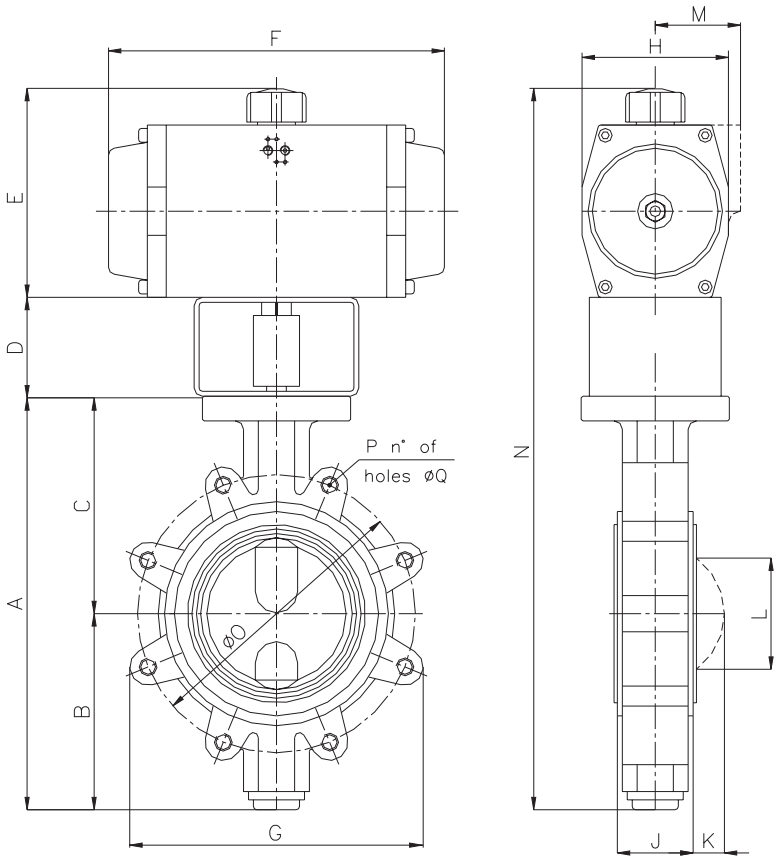
	WEIGHT									
Aluminium lever	3,4	4,3	5,7	6,2	7,8	10,8	11,9	17,8	28,6	41,4
Steel lever	4,1	5	5,4	6,9	8,5	11,5	12,6	18,5	29,4	42,4

Table 17. Lug Butterfly Valve Dimensions DN40 – DN300 with a Gearbox RV1



INC	1'1/2"	2"	2'1/2"	3"	4"	5"	6"	8"	10"	12"
DN	40	50	65	80	100	125	150	200	250	300
A	188	205	230	250	285	327	359	419	495	559
B	90	96	108	118	132	150	165	194	220	262
C	98	109	122	132	153	177	194	225	275	297
E	12					16			18	
G	13								14	15
H1	111	120	138	150	213	243	267	320	402	473
J	34	43,5	46	46	52	56,5	56,5	60	68	78
K	6,6	7,2	12,9	19,3	27,15	36,4	48,65	69,8	90	111,1
L	31	36	53	69	90	115	142	199	238	289
øM PN6	100	110	130	150	170	200	225	280	335	395
øM PN10	110	125	145	160	180	210	240	295	350	400
øM PN16	110	125	145	160	180	210	240	295	355	410
øM ANSI150 inc	3"7/8	4"3/4	5"1/2	6"	7"1/2	8"1/2	9"1/2	11"3/4	14"1/4	17"
øM ANSI150 mm	98,5	120,5	139,5	152,4	190,5	216	241,5	298,5	362	432
øN PN6	M12			M16						M20
øN PN10	M16						M20			
øN PN16	M16						M20		M22	
øN ANSI150	1/2"M14	5/8" M18				3/4" M20			7/8" M22	
P PN6	4				4*	8			12	
P PN10	4				8				12	
P PN16	4			8				12		
P ANSI150	4				8				12	

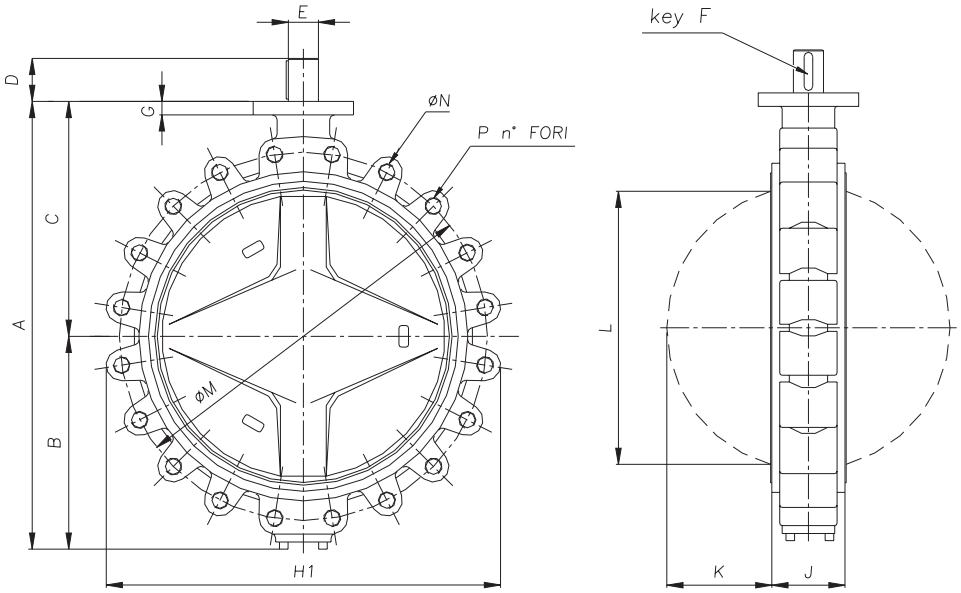
Table 18. Lug Butterfly Valve Dimensions DN40 – DN300 with a Pneumatic Actuator AP

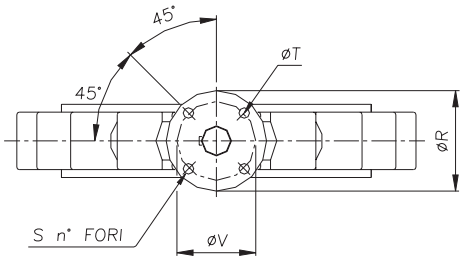


VALVE	AP TYPE	A	B	C	D	E	F	G	L	J	K	H	M	N	(Kg)
1" 1/2	AP2 DA	188	90	98	60	108	150	111	31	33	6,6	73	44,5	356	5
	AP2 SR														5,5
2"	AP2 DA	205	96	109	60	108	150	120	36	43	7,2	73	44,5	373	6
	AP3 SR					125	204					85	49,5	390	7,5
2" 1/2	AP3 DA	230	108	122	60	125	204	138	53	46	12,9	85	49,5	415	9
	AP4 SR					150	271					110	58	440	12
3"	AP3 DA	250	118	132	60	125	204	150	69	46	19,3	85	49,5	435	10
	AP4 SR					150	271					110	58	460	13
4"	AP3,5 SR	285	132	153	60	135	230	213	90	52	27,15	98	53	480	12,5
	AP4,5 SR					177	305					128	69	522	18
5"	AP4 DA	327	150	177	60	150	271	243	115	56	36,4	110	58	537	17
	AP5 SR					190	360					140	//	577	24
6"	AP4,5 DA	359	165	194	60	177	305	267	142	56	48,6	128	69	596	21
	AP5,5 SR				80	211	380					160	//	650	31,5
8"	AP5 DA	419	194	225	60	190	360	320	199	60	69,8	140	//	669	29,5
	AP6 SR				80	235	462					175		734	43
10"	AP5,5 DA	495	220	275	80	211	380	402	238	68	90	160	//	786	52
	AP8 SR				100	285	555					215		880	84
12"	AP6 DA	559	262	297	80	235	462	473	289	78	111,1	175	//	874	64
	AP8 SR				100	285	555							944	98

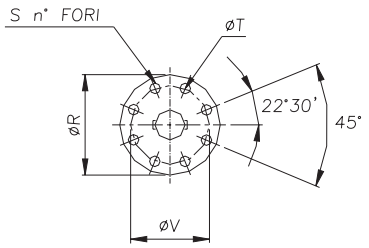
INC		1"1/2"	2"	2"1/2"	3"	4"	5"	6"	8"	10"	12"
DN		40	50	65	80	100	125	150	200	250	300
øO PN10		110	125	145	160	180	210	240	295	350	400
øO PN16		110	125	145	160	180	210	240	295	355	410
øO ANSI150	inc	3"7/8	4"3/4	5"1/2	6"	7"1/2	8"1/2	9"1/2	11"3/4	14"1/4	17"
	mm	98,5	120,5	139,5	152,4	190,5	216	241,5	298,5	362	432
øQ PN10		M16						M20			
øQ PN16		M16						M20		M22	
øQ ANSI150		1/2"M14	5/8" M18				3/4" M20			7/8" M22	
P PN10		4			8					12	
P PN16		4			8				12		
P ANSI150		4				8				12	

Table 19. Lug Butterfly Valve Dimensions DN350 – DN1000 with a Bare Shaft





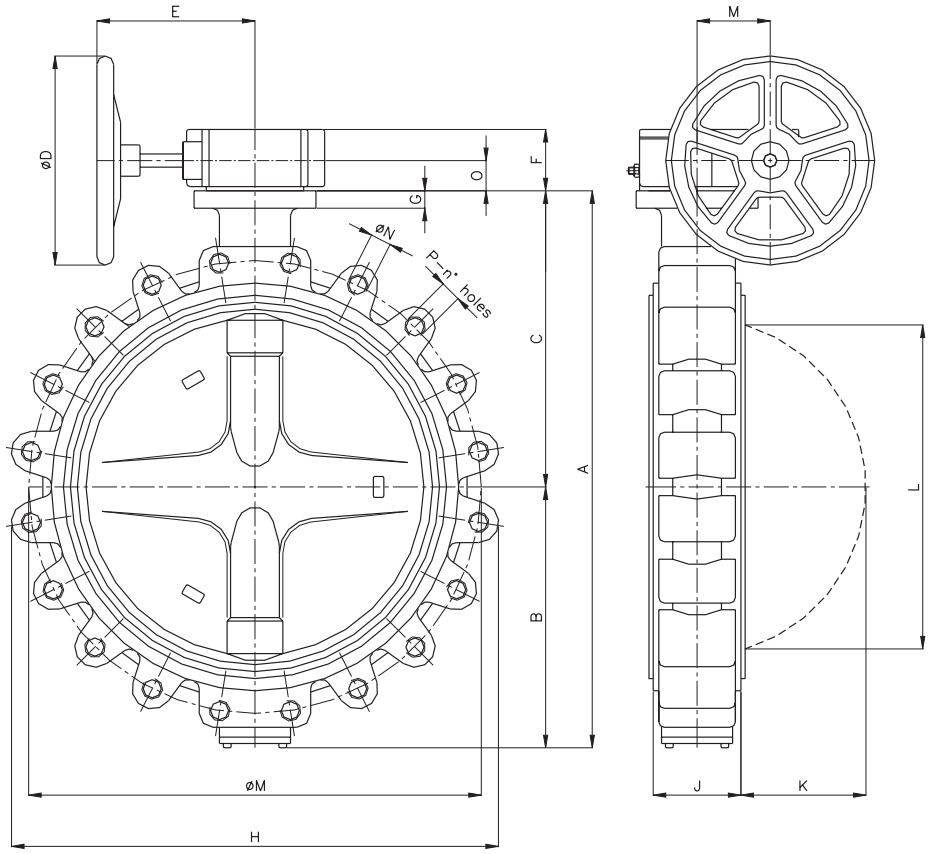
Drilling for DN 350 – DN 600



Drilling for DN 700 – DN 1000

INC	14"	16"	18"	20"	24"	28"	30"	32"	36"	40"
DN	350	400	450	500	600	700	750	800	900	1000
A	632	681	749	798	936	1120	1195	1242	1350	1500
B	281	305,5	349	373	445	540	585	612	660	740
C	351	375,5	400	425	491	580	610	630	690	760
D	60				90	120				
ØE	44,5				63	75			95	
F (UNI 6604)	14 X 9 X 45				18X11X80	n°2 LINGUETTE A 180° 22x14x80			n°2 LINGUETTE A 180° 25X14X110	
G	25					28			30	
H1	516	590	644	715	830	910	970	1040	1150	1260
J	78	102	114	127	153	165	190		203	216
K	126	138	157	179	218	261	277	304	339	383
L	324	367	417	468	572	666	719	774	858	957
ØM PN 6	445	495	550	600	705	810	//	920	1020	1120
ØM PN 10	460	515	565	620	725	840	//	950	1050	1160
ØM PN 16	470	525	585	650	770	840	//	950	1050	1170
ØM inc	18"3/4	21"1/4	22"3/4	25"	29"1/2	34"	36"	38"1/2	42"3/4	47"1/4
ANSI 150 mm	476	540	578	635	749,5	863,6	914,4	977,9	1085,8	1200,1
ØN PN6	M20				M24	M27				
ØN PN10	M20	M22			M27			M30		M33
ØN PN16	M22	M27		M30	M33		//	M36X3		M39X3
ØN ANSI150	1" UNC-M27		1" 1/8 UN-M30		1"1/4 UN-M33	1"1/4-UN		1"1/2-UN		
P PN 6	12	16		20		24				28
P PN 10	16		20			24	//	24	28	
P PN 16	16		20			24	//	24	28	
P ANSI150	12	16		20		//	32	//	32	//
R	175				210	300		360	350	415
S	4					8				
T	17				22	17			21	
V	140				165	254			298	

Table 20. Lug Butterfly Valve Dimensions DN40 – DN300 with a Gearbox RV



DN		350	400	450	500	600	700	750	800	900	1000
inc		14"	16"	18"	20"	24"	28"	30"	32"	36"	40"
A		632	679	749	798	936	1120	//	1242	1350	1490
B		281	303,5	349	373	445	540	//	612	660	730
C		351	375,5	400	425	491	580	//	630	690	760
G		25					28	//	28	30	
H		516	590	644	715	830	910	//	1040	1150	1260
L		323	370	420	470	556	666	//	774	858	957
ØM	PN6	445	495	550	600	705	810	//	920	1020	1120
	PN10	460	515	565	620	725	840	//	950	1050	1160
	PN16	470	525	585	650	770	840	//	950	1050	1170
	ANSI150	476,2	539,7	577,8	635	749,3	863,6	//	977,9	1085,85	1200,15
ØN	PN6	M20	M20	M20	M20	M22	M22	//	M27	M27	M27
	PN10	M20	M22	M22	M22	M27	M27	//	M30	M30	M33
	PN16	M22	M27	M27	M30	M33	M33	//	M36x3	M36x3	M39x3
	ANSI150	1" UNC - M27		1"1/8 UN - M30		1"1/4 UN - M33		//	1"1/2 UN - M36x3		
P	PN6	12	16		20		24	//	28		
	PN10	16		20			24	//	24	28	
	PN16	16		20			24	//	24	28	
	ANSI150	12		16		20		//	28	32	36
J		78	102	114	127	154	165	//	190	203	216
K		124	141	161	182	219	261	//	304	339	383
RV - Type		*RV2*				*RV3*	*RV4*	//	*RV5*	*RV6*	*RV7*
ØD		300				500	800	//	600	700	800
E		230				492	500	//	520	615	720
F		81				151	120	//	150	210	225
M		100				60	150	//	174	195	265
O		45				66	65	//	80	110	120

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