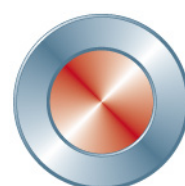


Knife gate valve MV



Stafsjö
SINCE 1666

Knife gate valve MV

Stafsjö's knife gate valve MV is used within many different fields of applications. The valve has a gate with a bevel edge that effectively cuts through different media. In closed position the gate is pushed onto the seat which gives a tight and reliable sealing. This special shut-off technique makes the MV valve suitable for both fluids and dry media such as pulp, sludge, biomass, powder and different kinds of waste.

MV is modular designed and can easily be customized to specific process conditions. As standard it is supplied with a valve body in either stainless steel or coated nodular iron, but it can also be supplied in a range of high alloy materials such as Duplex, Hastelloy, SMO and Titanium. The process adaptation becomes an easy task with Stafsjö's retainer ring system, since it offers several seat materials and any change of seat can easily be performed both smooth and cost-efficient. The valve is equipped with a gate in stainless steel, with different alloys as options. Just like other Stafsjö valves the MV is as standard equipped with Stafsjö's box packing TwinPack™, to secure that no media reaches surrounding environment. The gland box can also be supplied with a box bottom scraper or with double gland for the most demanding applications.

The top work consists of aluminium beams and stainless steel tie rods, which gives good corrosion resistance and a stable operation. There are several actuator types and accessories to choose from in Stafsjö's standard collection – all easily exchangeable between each other.

The MV valve is designed, manufactured, inspected and tested according to the European Pressure Equipment Directive (PED 97/23/EC) category I and II module A1. The valve is CE marked when it is applicable.



Proven and reliable shut-off

The gate and valve body design, especially the bore, gives the valve its ability to securely and effectively shut-off almost any flow. Minimal friction makes the valve easy to operate.



Solid and flexible top works

Stainless steel tie rods and aluminium beams gives good corrosion resistance and a stable operation, which is a prerequisite for a first-rate sealing. Changing from one actuator to another one can easily be performed on the site.



Excellent adaptability

MV can easily be customized to different process conditions, e.g. in special materials such as Duplex, Hastelloy, SMO or Titanium. The retainer ring system offers flexibility and cost-efficient on-site maintenance.

Design data

Sizes	Flange drilling	Face-to-face dimension	ATEX design	Corrosion protection
DN 50 - DN 1400	EN 1092 PN 10 EN 1092 PN 16 ASME/ANSI B16.5 Class 150 ASME/ANSI B16.47 Class 150, series A JIS B 2238 10K AS 2129 Table D and E BS 10 Table D	Stafsjö manufacturing standard MSS SP-81 TAPPI TIS 405-8	ATEX 94/ 9/EC II cat 3 G/D for zone 2 and 22 on request	Non-corrosive resistant materials are coated in colour RAL5015 acc. to Stafsjö's standard, which fulfill the requirements in EN ISO 12944 class C3.

Other sizes, flange drillings, ATEX zones and corrosion protection on request.

Leakage rate	Pressure tests
EN 12266-1:2012 rate A: No visually detectable leakage is allowed for duration of the test. Rate A is not applicable for valves equipped with metal seat.	Pressure tests are performed with water at 20° C according to EN 12266-1:2012. Pressure shell test: 1,5 times maximum allowable working pressure for open valve. Pressure seat tightness test: 1,1 times maximum allowable differential pressure for closed valve.

Maximum working pressure body at 20°C		Maximum differential pressure in preferred direction at 20°C		Maximum differential pressure in reverse direction at 20°C for seats E/N/V		
DN	bar	DN	bar	DN	bar (E-body)	bar (L-body)
50 - 125	16	50 - 125	16	50 - 200	3,5	3,5
150 - 300	10	150 - 300	10	250	3,0	3,0
350 - 600	6	350 - 600	6	300 - 450	On request	3,0
700 - 1400	4	700 - 1000	4	500 - 1400	On request	-
		1200-1400	2 or 4			

Basic equipment

A. Valve Body			
Material	Code	Type	Maximum temperature °C
Stainless steel	(E)	EN 1.4408	400
Nodular iron	(L)	EN-JS1050/GGG50	200
Carbon steel DN 900 & DN 1000	(C)	WCC/ASTM A216	425

The valve body is as standard supplied with purge ports on ≥ 500 : 1/2". Up to DN 450 on order.

B. Gate		
Material	Type	Option
Stainless steel¹⁾	EN 1.4301/AISI 304	Hard chromed surface
Stainless steel²⁾	EN 1.4404/AISI 316L	Hard chromed surface
<i>Option</i>		
Duplex stainless steel	EN 1.4462/S32205	Hard chromed surface

¹⁾ Standard on MV-L DN 50 - DN 500.

²⁾ Standard on MV-E and MV-L DN $\geq$ DN 600.

C. Retainer ring	
Material	Type
Stainless steel³⁾	EN 1.4408
Nodular iron, Cast iron⁴⁾	EN-JS1050/GGG50, EN-JL1030/GG20

³⁾ Standard on MV-E.

⁴⁾ Nodular iron on MV-L DN $\leq$ DN 300 and cast iron on MV-L $\geq$ DN 350.

D. Seat		
Material	Code	Maximum temperature °C
EPDM	(E)	120
Nitrile	(N)	100
Viton	(V)	180

PTFE with o-ring Nitrile	(P)	100
PTFE with o-ring Viton	(PV)	180
Polyurethane	(U)	90
Metal with o-ring Nitrile	(M)	100
Metal with o-ring Viton	(MV)	180
Metal with Grafoil	(MHT)	400 (E)/200 (L)/425 (C)

E. Box Packing		
Material	Code	Maximum temperature °C
TwinPack™	(TY)	260
PTFE	(TF)	280
Graphite	(TG)	450

Box bottom scraper in UMWE-PE or PTFE is available as an option.

Actuators

Manual	Code	Automatic	Code
Hand wheel ⁵⁾	(HW)	Pneumatic cylinder	(EC)
Chain wheel ⁶⁾	(CW)	Electrical motor	(EM)
Hand lever ⁶⁾⁷⁾	(HL)	Hydraulic cylinder ⁶⁾	(MH)
Ratchet wrench ⁶⁾	(RW)		
Bevel gear ⁶⁾	(BG)		

⁵⁾ For recommended size, see page 5 column E

⁶⁾ For recommended size, see separate data sheet

⁷⁾ Pressures according to design data are not valid for valve equipped with hand lever (HL). Maximum working and differential pressure in preferred direction at 20°C for DN 50 - DN 200: 4 bar.

Double-acting pneumatic cylinder			Electric motor (AUMA multi-turn)		
DN valve	EC type	Force at 5 bar (kN)	DN valve	AUMA type	Attachment
50 - 150	EC 100	3,5	50 - 150	SA 07.2	F10/A
200 - 300	EC 160	9,0	200 - 250	SA 07.6	F10/A
350 - 500	EC 200	14,1	300 - 600	SA 10.2	F10/A
600 - 700	EC 250	22,1	700 - 800	SA 14.2	F14/A
750 - 1000	EC 320	36,2	900 - 1000	SA 14.6	F14/A
1200 - 1400	-	-	1200 - 1400	SA 16.2	F16/A

The table above gives recommended cylinder sizes at normal operation with 5 bar air pressure. For other operating conditions, please contact Stafsjö or your local representative for advice.

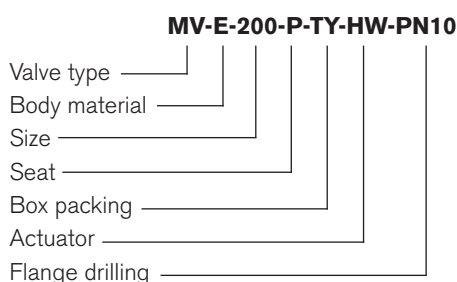
Electric motors are mounted according to standard ISO 5210.

The table above gives recommended motor sizes at normal operation. For other operating conditions, please contact Stafsjö or your local representative for advice.

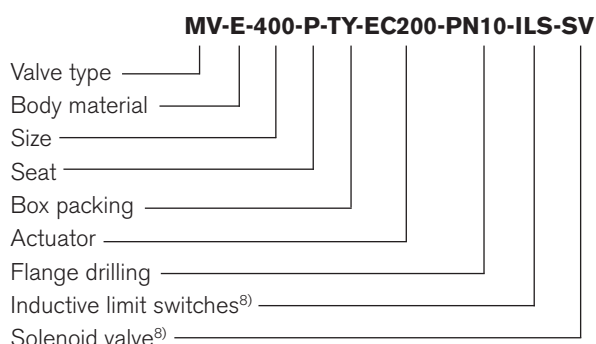
The actuators are described in separate data sheets. For advice and information on other actuators or on ATEX-classified ones, please contact Stafsjö or your local representative.

Specify the Stafsjö valve

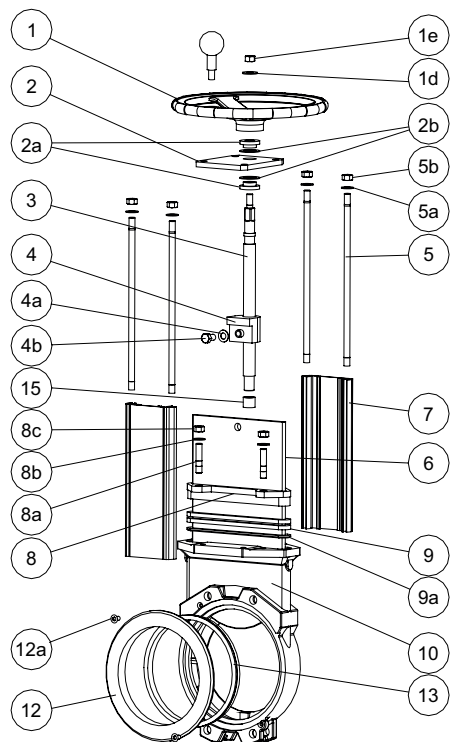
Stafsjö's valves are modular designed and they can easily be customized with gate, seats and box packings according to media and requirements, as well for actuators and accessories. Below are examples of how you can specify your Stafsjö valve. Further information is available on www.stafsjo.com.



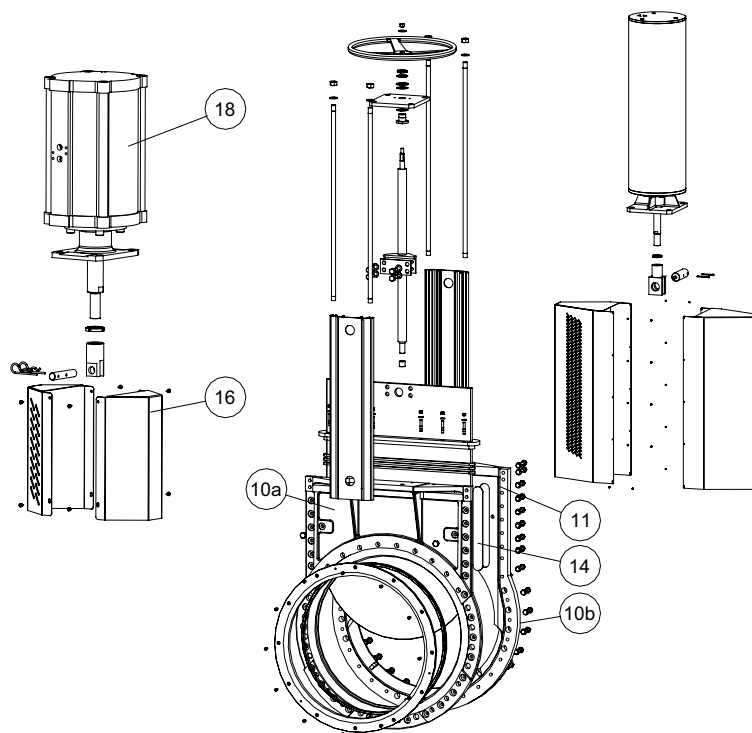
⁸⁾ All electronics must be specified in detail.



One piece valve body: DN 50 - DN 800



Two piece valve body: DN 900 - DN 1400

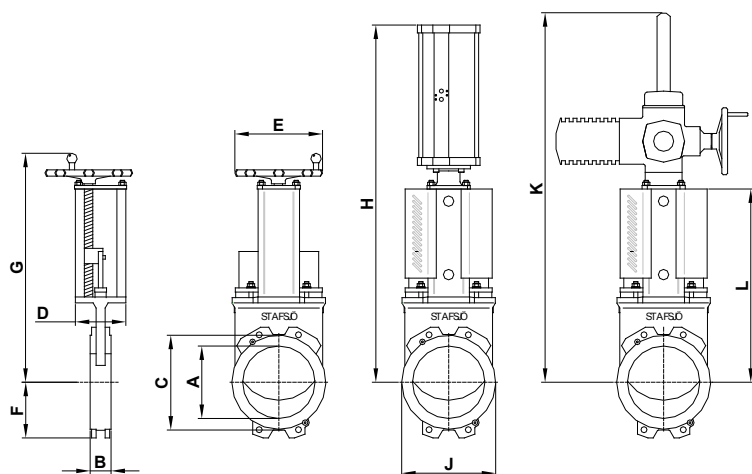


Part List

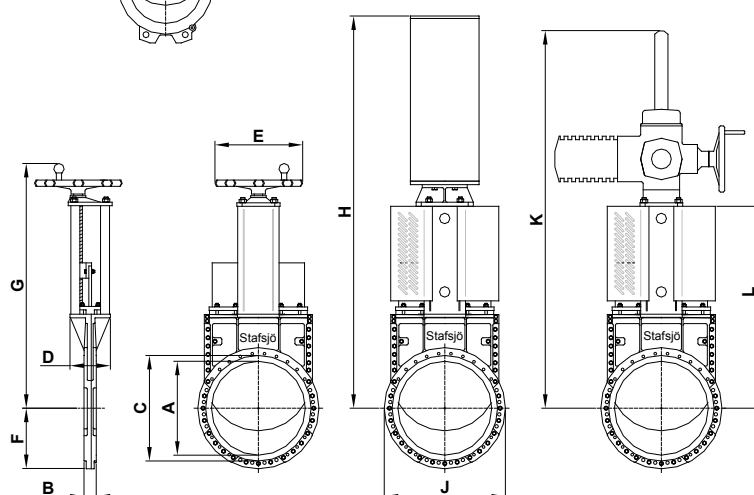
Pos.	Part	Material (Name)
1	Hand wheel	Coated cast iron Ø 200 - Ø 315 (EN-JL1040/GG25), ≥ Ø 400 (EN-JL1030/GG20)
2	Yoke	Stainless steel (EN 1.4301)
2a	Bearing	Brass (CuZn39Pb3)
2b	Slide washer	POM
3	Stem	Stainless steel (EN 1.4016 alt. EN 1.4305)
4	Stem nut	Brass (CW603N alt. CW614N)
4a	Washer	Stainless steel (A2)
4b	Screw	Stainless steel (A2)
5	Tie rod	Stainless steel (EN 1.4301)
5a	Washer	Stainless steel (A2)
5b	Nut	Stainless steel (A2)
6	Gate	See equipment B
7	Beam	Aluminium (EN AW-6063-T6)

⁹⁾ Recommended spare part

Pos.	Part	Material (Name)
8	Gland	Stainless steel (EN 1.4408) Coated nodular iron (EN-JS1050/ GGG50) on MV-L ≤ DN 300
8a	Stud bolt	Stainless steel (A2), zinc coated
8b	Washer	Stainless steel (A2)
8c	Nut	Stainless steel (A2), zinc coated
9 ⁹⁾	Box packing	See equipment E
9a ⁹⁾	Box bottom support	DN 500 - DN 800 HD-polyethylene
10a/b	Valve body	See equipment A
11	Body gasket	PTFE
12	Retainer ring	See equipment C
12a	Locking screw	Stainless steel (A2)
13 ⁹⁾	Seat	See equipment D
14	Guiding pads	HD-polyethylene
15	Bushing	Oil-bronze
16	Gate guard, not for HW	Stainless steel (EN 1.4301)
18	Pneumatic cylinder	See separate data sheet



One piece valve body: DN 50 - DN 800

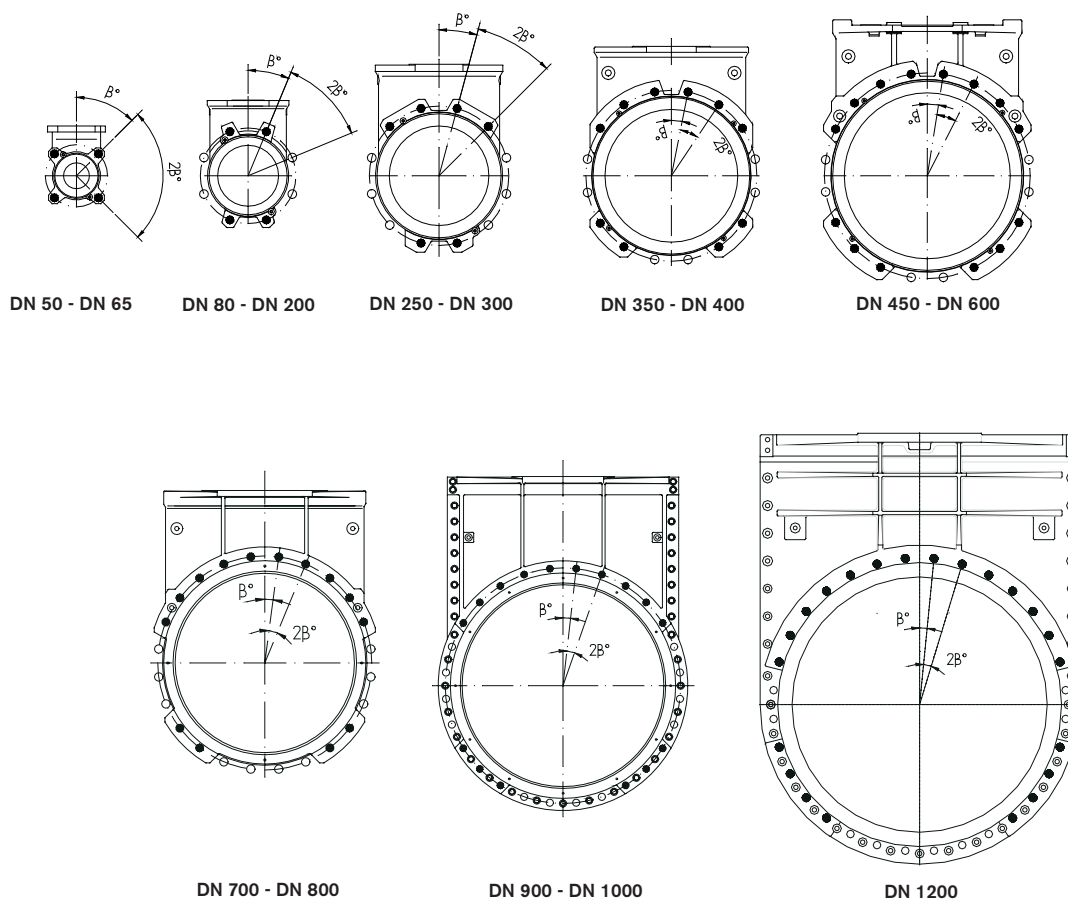


Two piece valve body: DN 900 - DN 1400

Main dimensions

Dimensions (mm)												
DN	A	B	C	D	E	F	G	H	J	K	L	Wheight ¹⁰⁾
50	52	41	91	80	200	56	360	468	116	630	230	7
65	64	41	107	80	200	65	380	488	130	650	250	7
80	79	51	124	80	200	88	405	513	135	675	275	8
100	103	51	154	80	200	102	453	561	155	723	323	10
125	128	56	179	80	250	116	495	653	178	765	365	13
150	153	60	204	80	250	130	550	708	205	820	420	15
200	202	60	267	145	315	160	694	921	268	1115	555	31
250	250	69	320	145	315	192	779	1111	320	1250	640	40
300	302	78	374	145	315	230	879	1211	375	1400	740	55
350	332	78	419	175	400	210	993	1507	420	1550	820	90
400	380	89	479	175	400	245	1083	1597	490	1690	910	120
450	428	89	535	200	520	280	1180	1677	560	1820	990	180
500	470	114	580	250	520	315	1333	1932	625	2028	1145	245
600	560	114	680	260	635	370	1558	2244	740	2358	1370	340
700	665	118	800	310	635	400	1750	2605	865	2650	1565	460
750	710	118	860	305	635	430	1880	2675	930	2830	1635	700
800	760	118	900	310	635	450	1970	2824	985	2970	1780	540
900	855	118	1010	320	635	580	2220	3131	1160	3340	1985	900
1000	950	150	1110	320	635	640	2400	3476	1280	3630	2215	1500
1200	1200	150	1335	490	-	750	-	-	1500	4300	2860	2160
1400	1422	180	1574	510	-	863	-	-	1726	4950	3224	3300

¹⁰⁾ Weight in kg for valve equipped with hand wheel, electric actuator on DN 1200 and DN 1400.
Main dimensions are only for information. Contact Stafsjö for certified drawings.



Flange drilling according to EN 1092 PN 10

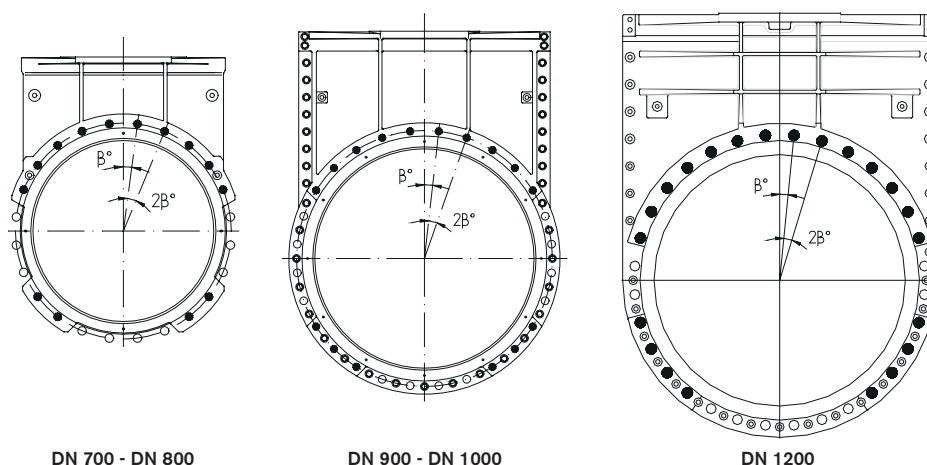
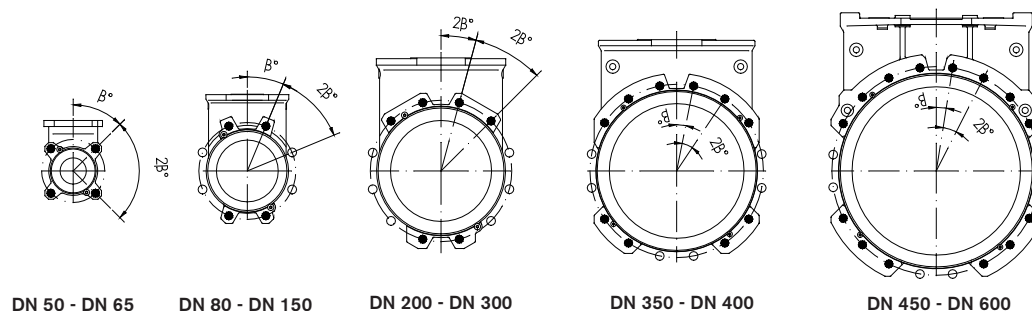
Flange drilling information (mm)										
DN	50	65	80	100	125	150	200	250	300	350
Outside flange diameter	165	185	200	220	250	285	340	395	445	505
Bolt circle diameter	125	145	160	180	210	240	295	350	400	460
Number of throughgoing bolts (○)	-	-	4	4	4	4	4	6	6	6
Number of tapped holes (●)	4	4	4	4	4	4	4	6	6	10
Bolt size	M16	M16	M16	M16	M16	M20	M20	M20	M20	M20
Size of throughgoing holes in flange	Ø18	Ø18	Ø18	Ø18	Ø18	Ø22	Ø22	Ø22	Ø22	Ø22
β°	45	45	22,5	22,5	22,5	22,5	22,5	15	15	11,25
Screw lengths ¹¹⁾	8 ¹²⁾	8 ¹²⁾	12	12	12	14	13	17	20	19
Flange drilling information (mm)										
DN	400	450	500	600	700	800	900	1000	1200	1400
Outside flange diameter	565	615	670	780	895	1015	1115	1230	1455	OR
Bolt circle diameter	515	565	620	725	840	950	1050	1160	1380	OR
Number of throughgoing bolts (○)	6	6	6	6	10	10	12	12	10	OR
Number of tapped holes (●)	10	14	14	14	14	14	16	16	22	OR
Bolt size	M24	M24	M24	M27	M27	M30	M30	M33	M36	OR
Size of throughgoing holes in flange	Ø26	Ø26	Ø26	Ø30	Ø30	Ø33	Ø33	Ø36	Ø39	OR
β°	11,25	9	9	9	7,5	7,5	6,43	6,43	5,63	OR
Screw lengths ¹¹⁾	22	22	27	27	25	27	27	30	32	OR

¹¹⁾ Add the values with the thickness of flanges, washers and gaskets.

¹²⁾ The screws on the sear side has to be 3 mm longer

○ Throughgoing holes

● Tapped holes



Flange drilling according to EN 1092 PN 16

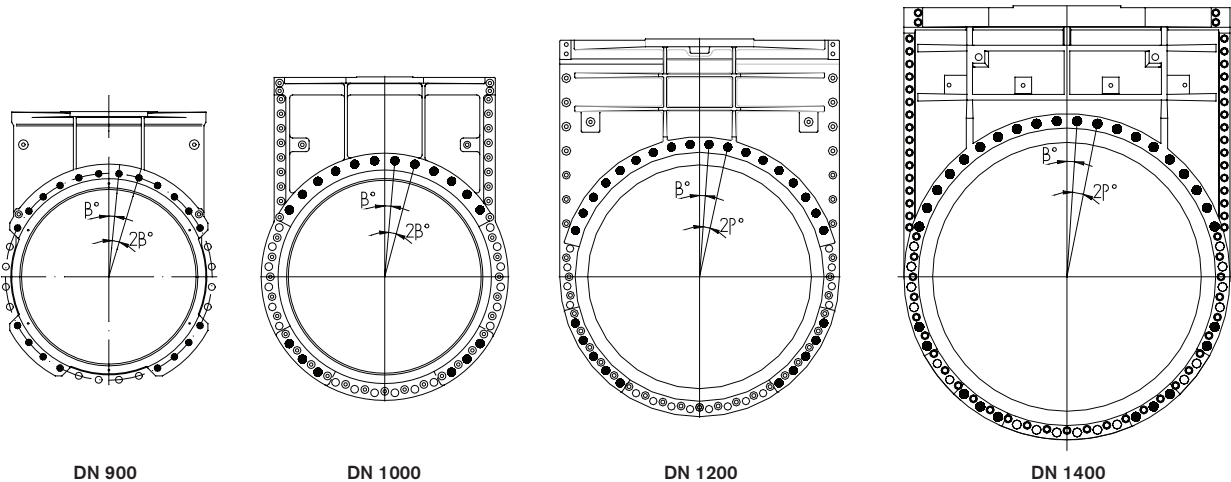
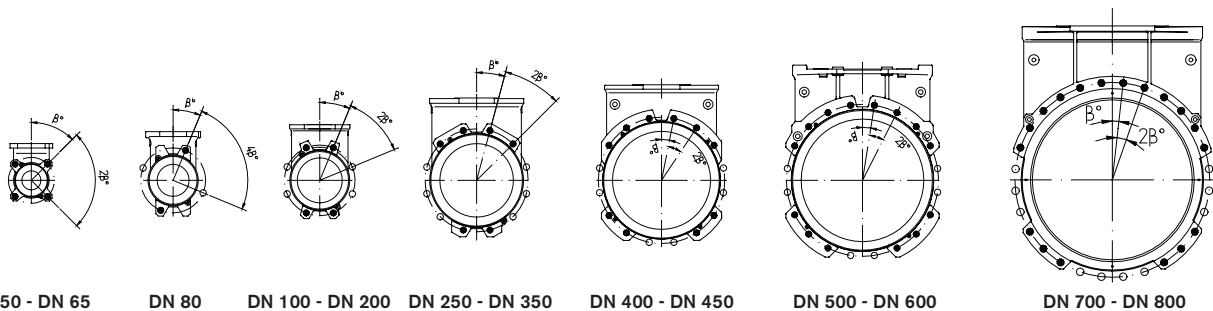
Flange drilling information (mm)										
DN	50	65	80	100	125	150	200	250	300	350
Outside flange diameter (mm)	165	185	200	220	250	285	340	405	460	520
Bolt circle diameter (mm)	125	145	160	180	210	240	295	355	410	470
Number of throughgoing bolts (°)	-	-	4	4	4	4	6	6	6	6
Number of tapped holes (•)	4	4	4	4	4	4	6	6	6	10
Bolt size	M16	M16	M16	M16	M16	M20	M20	M24	M24	M24
Size of throughgoing holes in flange	Ø18	Ø18	Ø18	Ø18	Ø18	Ø22	Ø22	Ø26	Ø26	Ø26
β°	45	45	22,5	22,5	22,5	22,5	15	15	15	11,25
Screw lengths ¹¹⁾	8 ¹²⁾	8 ¹²⁾	12	12	12	14	13	17	20	19
Flange drilling information (mm)										
DN	400	450	500	600	700	800	900	1000	1200	1400
Outside flange diameter	580	640	715	840	910	1025	1125	1255	1485	OR
Bolt circle diameter	525	585	650	770	840	950	1050	1170	1390	OR
Number of throughgoing bolts (°)	6	6	6	6	10	10	12	12	10	OR
Number of tapped holes (•)	10	14	14	14	14	14	16	16	22	OR
Bolt size	M27	M27	M30	M33	M33	M36	M36	M39	M45	OR
Size of throughgoing holes in flange	Ø30	Ø30	Ø33	Ø36	Ø36	Ø39	Ø39	Ø42	Ø48	OR
β°	11,25	9	9	9	7,5	7,5	6,43	6,43	5,63	OR
Screw lengths ¹¹⁾	22	22	27	27	25	27	27	30	32	OR

¹¹⁾ Add the values with the thickness of flanges, washers and gaskets.

¹²⁾ The screws on the sear side has to be 3 mm longer

° Throughgoing holes

• Tapped holes



Flange drilling according to ASME/ANSI B16.5 and B16.47 Class 150

Flange drilling information (mm)

DN	50	65	80	100	125	150	200	250	300	350	400
Outside flange diameter	152,4	177,8	190,5	228,6	254	297,4	342,9	406,4	482,6	533	597
Bolt circle diameter	120,7	139,7	152,4	190,5	215,9	241,3	298,5	362	431,8	476,3	539,8
Number of throughgoing bolts (°)	-	-	2	4	4	4	4	6	6	6	6
Number of tapped holes (•)	4	4	2	4	4	4	4	6	6	6	10
Bolt size (UNC)	5/8-11	5/8-11	5/8-11	5/8-11	3/4-10	3/4-10	3/4-10	7/8-9	7/8-9	1-8	1-8
Size of throughgoing holes in flange	Ø18	Ø18	Ø18	Ø18	Ø22	Ø22	Ø22	Ø26	Ø26	Ø30	Ø30
β°	45	45	22,5	22,5	22,5	22,5	22,5	15	15	15	11,25
Screw lengths ¹¹⁾	8 ¹²⁾	8 ¹²⁾	12	12	12	14	13 ¹³⁾	17	20	19	22

Flange drilling information (≥ DN 700: ASME/ANSI B16.47 Class 150 series A) (mm)

DN	450	500	600	700	750	800	900	1000	1200	1400
Outside flange diameter	635	699	813	927,1	984,3	1060	1168,4	1289,1	1511	1746
Bolt circle diameter	577,9	635	749,3	863,6	914,4	977,9	1085,9	1200,1	1422,4	1651
Number of throughgoing bolts (°)	6	6	6	10	10	10	12	18	28	18
Number of tapped holes (•)	10	14	14	18	18	18	20	18	16	30
Bolt size (UNC)	1 1/8-7	1 1/8-7	1 1/4-7	1 1/4-7	1 1/4-7	1 1/2-6	1 1/2-6	1 1/2-6	1 1/2-6	1 3/4-5
Size of throughgoing holes in flange	Ø33	Ø33	Ø36	Ø36	Ø36	Ø42	Ø42	Ø42	Ø42	Ø48
β°	11,25	9	9	6,43	6,43	6,43	5,63	5	4,01	3,75
Screw lengths ¹¹⁾	22	27	27	25	25	27	27	33	32	40

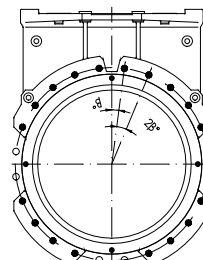
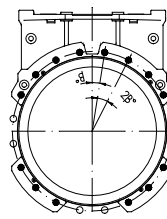
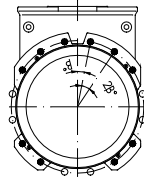
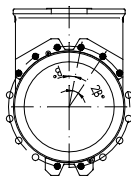
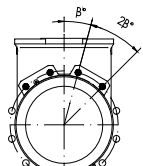
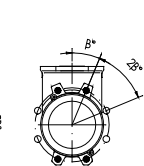
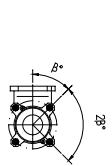
¹¹⁾ Add the values with the thickness of flanges, washers and gaskets.

¹²⁾ The screws on the seatside has to be 3 mm longer

¹³⁾ The screws on the seatside has to be 10 mm longer for face-to-face TAPPI

° Throughgoing holes

• Tapped holes



DN 50 - DN 65

DN 80 - DN 150

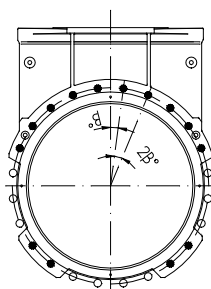
DN 200 - DN 250

DN 300

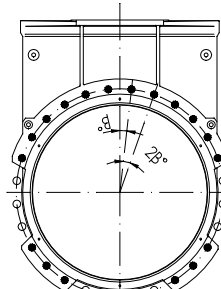
DN 350 - DN 400

DN 450 - DN 500

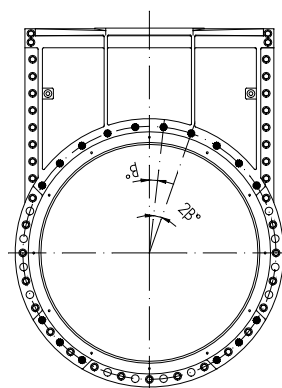
DN 600



DN 700 - DN 750



DN 800



DN 900 - DN 1000

Flange drilling according to JIS B 2238 10K

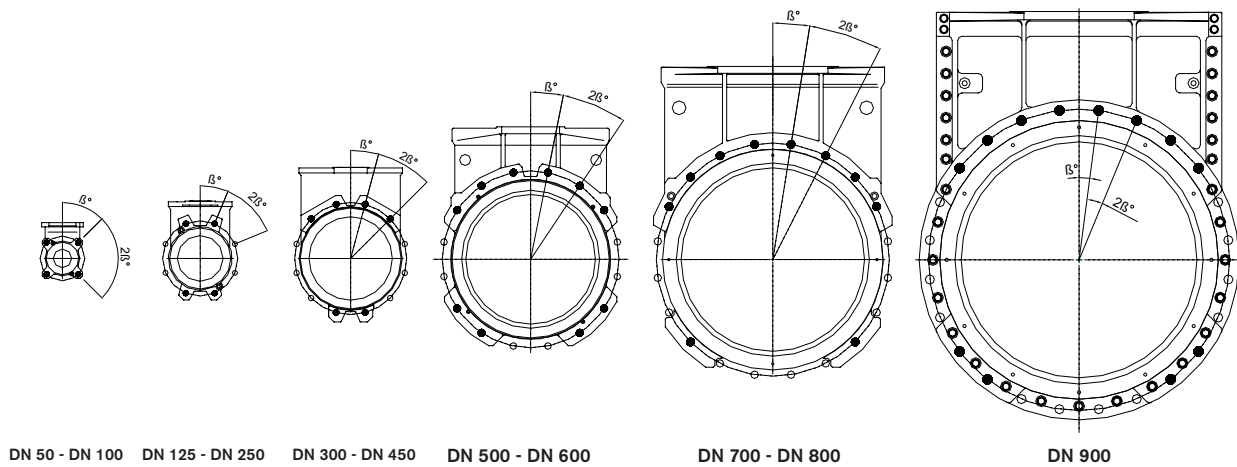
Flange drilling information (mm)										
DN	50	65	80	100	125	150	200	250	300	350
Outside flange diameter	155	175	185	210	250	280	330	400	445	490
Bolt circle diameter	120	140	150	175	210	240	290	355	400	445
Number of throughgoing bolts (○)	-	-	4	4	4	4	6	6	8	6
Number of tapped holes (●)	4	4	4	4	4	4	6	6	8	10
Bolt size	M16	M16	M16	M16	M20	M20	M20	M22	M22	M22
Size of throughgoing holes in flange	Ø19	Ø19	Ø19	Ø19	Ø23	Ø23	Ø23	Ø25	Ø25	Ø25
β°	45	45	22,5	22,5	22,5	22,5	15	15	15	11,25
Screw lengths ¹¹⁾	8 ¹²⁾	8 ¹²⁾	12	12	12	14	13	17	20	19
Flange drilling information (mm)										
DN	400	450	500	600	700	750	800	900	1000	≥ 1200
Outside flange diameter	550	620	675	795	905	970	1020	1120	1235	OR
Bolt circle diameter	510	565	620	730	840	900	950	1050	1160	OR
Number of throughgoing bolts (○)	6	6	6	6	10	10	10	12	12	OR
Number of tapped holes (●)	10	14	14	18	14	14	18	16	16	OR
Bolt size	M24	M24	M24	M30	M30	M30	M30	M30	M36	OR
Size of throughgoing holes in flange	Ø27	Ø27	Ø27	Ø33	Ø33	Ø33	Ø33	Ø33	Ø39	OR
β°	11,25	9	9	7,5	7,5	7,5	6,43	6,43	6,43	OR
Screw lengths ¹¹⁾	22	22	27	27	25	25	27	27	30	OR

¹¹⁾ Add the values with the thickness of flanges, washers and gaskets.

¹²⁾ The screws on the seat side has to be 3 mm longer

○ Throughgoing holes

● Tapped holes



Flange drilling according to AS 2129 Table D

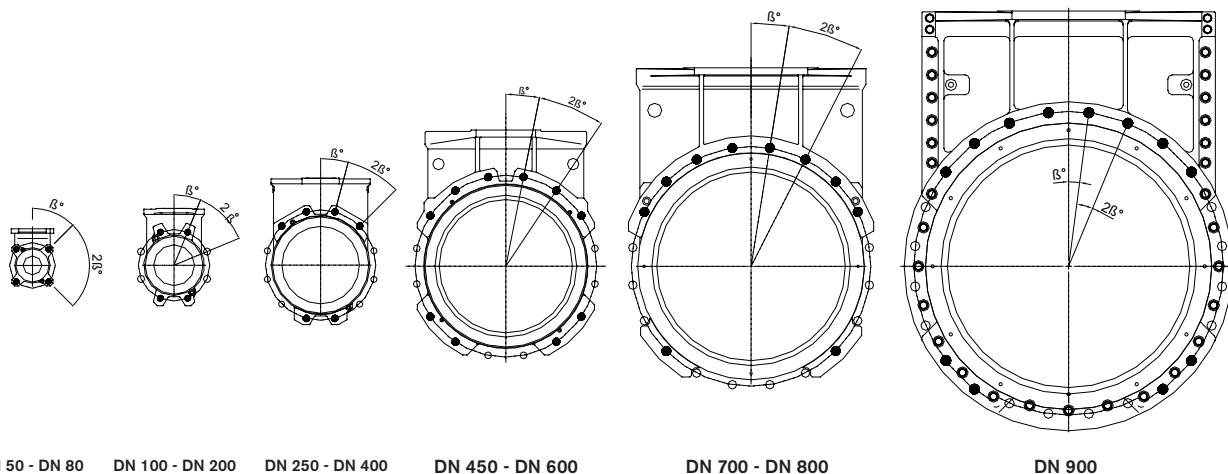
Flange drilling information (mm)									
DN	50	65	80	100	125	150	200	250	300
Outside flange diameter	150	165	185	215	255	280	335	405	455
Bolt circle diameter	114	127	146	178	210	235	292	356	406
Number of throughgoing bolts (◊)	–	–	–	–	4	4	4	4	6
Number of tapped holes (•)	4	4	4	4	4	4	4	4	6
Bolt size	M16	M16	M16	M16	M16	M16	M16	M20	M20
Size of throughgoing holes in flange	–	–	–	Ø18	Ø18	Ø18	Ø18	Ø22	Ø22
β°	45	45	45	45	22,5	22,5	22,5	22,5	15
Screw lengths ¹¹⁾	8 ¹²⁾	8 ¹²⁾	12	12	12	14	13	17	20
Flange drilling information (mm)									
DN	350	400	450	500	600	700	800	900	≥ 1000
Outside flange diameter	525	580	640	705	825	910	1060	1175	OR
Bolt circle diameter	470	521	584	641	756	845	984	1092	OR
Number of throughgoing bolts (◊)	6	6	6	6	6	10	10	12	OR
Number of tapped holes (•)	6	6	6	10	10	10	10	12	OR
Bolt size	M24	M24	M24	M24	M27	M27	M33	M33	OR
Size of throughgoing holes in flange	Ø26	Ø26	Ø26	Ø26	Ø30	Ø30	Ø36	Ø36	OR
β°	15	15	15	11,25	11,25	9	9	7,5	OR
Screw lengths ¹¹⁾	19	22	22	27	27	25	27	27	OR

¹¹⁾ Add the values with the thickness of flanges, washers and gaskets.

¹²⁾ The screws on the seatside has to be 3 mm longer

◊ Throughgoing holes

• Tapped holes



Flange drilling according to AS 2129 Table E

Flange drilling information (mm)									
DN	50	65	80	100	125	150	200	250	300
Outside flange diameter	150	165	185	215	255	280	335	405	455
Bolt circle diameter	114	127	146	178	210	235	292	356	406
Number of throughgoing bolts (°)	–	–	–	4	4	4	4	6	6
Number of tapped holes (•)	4	4	4	4	4	4	4	6	6
Bolt size	M16	M16	M16	M16	M16	M20	M20	M20	M24
Size of throughgoing holes in flange	–	–	–	Ø18	Ø18	Ø22	Ø22	Ø22	Ø26
β°	45	45	45	22,5	22,5	22,5	22,5	15	15
Screw lengths ¹¹⁾	8 ¹²⁾	8 ¹²⁾	12	12	12	14	13	17	20
Flange drilling information (mm)									
DN	350	400	450	500	600	700	800	900	≥ 1000
Outside flange diameter	525	580	640	705	825	910	1060	1175	OR
Bolt circle diameter	470	521	584	641	756	845	984	1092	OR
Number of throughgoing bolts (°)	6	6	6	6	6	10	10	12	OR
Number of tapped holes (•)	6	6	10	10	10	10	10	12	OR
Bolt size	M24	M24	M24	M24	M30	M30	M33	M33	OR
Size of throughgoing holes in flange	Ø26	Ø26	Ø26	Ø26	Ø33	Ø33	Ø36	Ø36	OR
β°	15	15	11,25	11,25	11,25	9	9	7,5	OR
Screw lengths ¹¹⁾	19	22	22	27	27	25	27	27	OR

¹¹⁾ Add the values with the thickness of flanges, washers and gaskets.

¹²⁾ The screws on the seatside has to be 3 mm longer

° Throughgoing holes

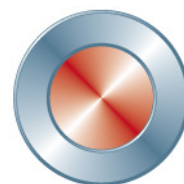
• Tapped holes

Further information is available on www.stafsjo.com



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