

Stoffschieber/ Knife gate valve Typ A, DN 50 - 1200

Technische Daten

Bauform

Zwischenflansch Stoffschieber
 Gehäuse: GG-25 EKB oder Edelstahl
 CF8M
 Schieberplatte: AISI 304
 Dichtung: EPDM (Standard),
 metallisch, NBR, Viton oder PTFE
 Stopfbuchspackung: Synth. + PTFE,
 Flansche nach DIN 2501 PN 10

Specification

Design

Wafer type knife gate valve
 Body: GG-25 EKB or stainless steel
 CF8M
 Knife: AISI 304,
 Seat: EPDM (Standard), metal seated,
 NBR, Viton or PTFE
 Packing: Synth. + PTFE
 Flanges according to DIN 2501 PN 10

Typ PA-A12:

steigende Spindel / nichtsteigendes
 Handrad

Typ PA-A30:

Schnellschlusshandhebel

Typ PA-A40:

Pneumatikantrieb

Typ PA-A50:

Elektroantrieb, Typ AUMA SA

Typ PA-A12:

Rising stem / nonrising handwheel

Typ PA-A30:

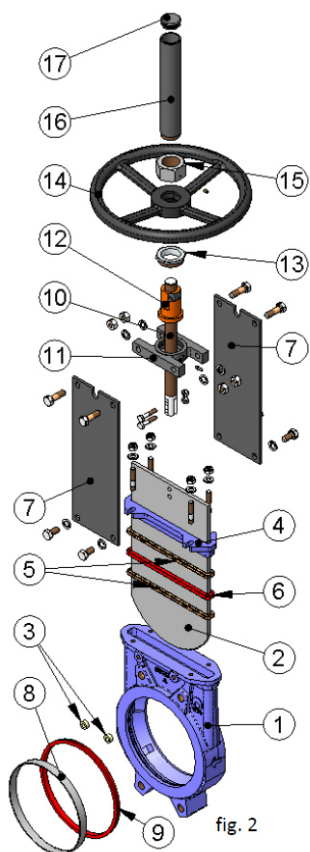
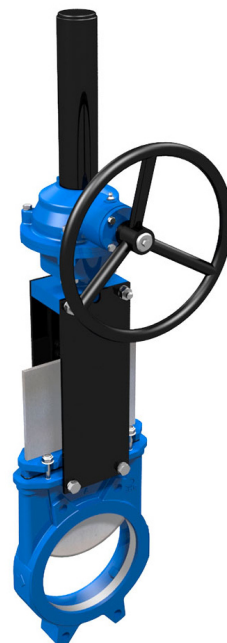
Quick closing lever

Typ PA-A40:

Pneumatic actuator

Typ PA-A50:

Electric actuator, type AUMA SA



Nr.	Teile	Werkstoff	
1	Body	GJL-250	CF8M
2	Gate	AISI304	AISI316
3	Guide	RCH1000	
4	Packing gland	GJS-500	CF8M
5	Packing	SYNTJR + PTFE	
6	O-ring seal	EPDM	
7	Support plates	S275JR	
8	Ring	AISI316	
9	Seat	EPDM	
10	Stem	AISI303	
11	Yoke	STEEL	
12	Stem nut	BRONZE	
13	Check nut	ST44.2 + ZINC	
14	Handwheel	NODULAR CAST IRON	
15	Nut	STEEL	
16	Hood	STEEL	
17	Top cap	PLASTIC	

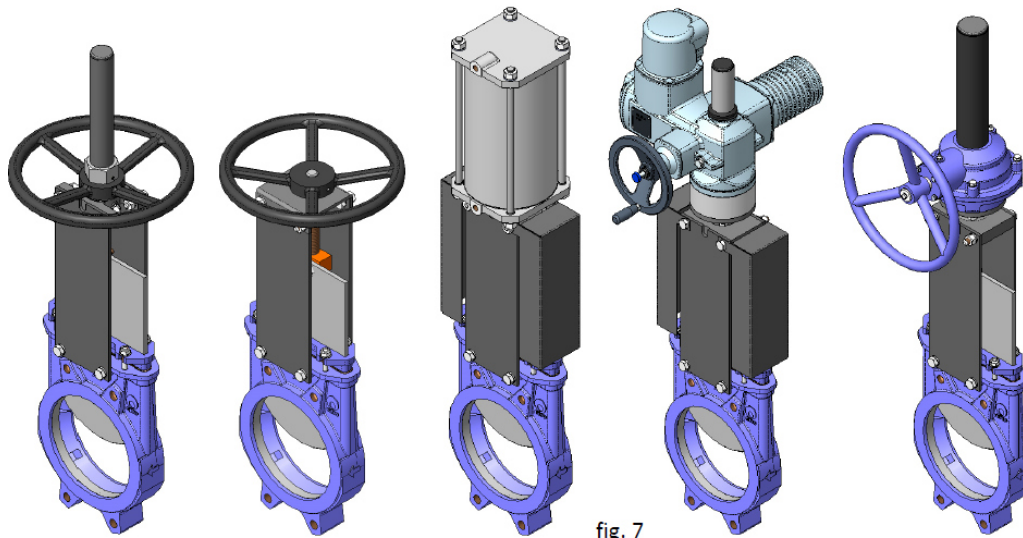


fig. 7

Handwheel
rising stem

Handwheel
NON-rising stem

Pneumatic
actuator

Electric-motor
actuator

Handwheel
gear box

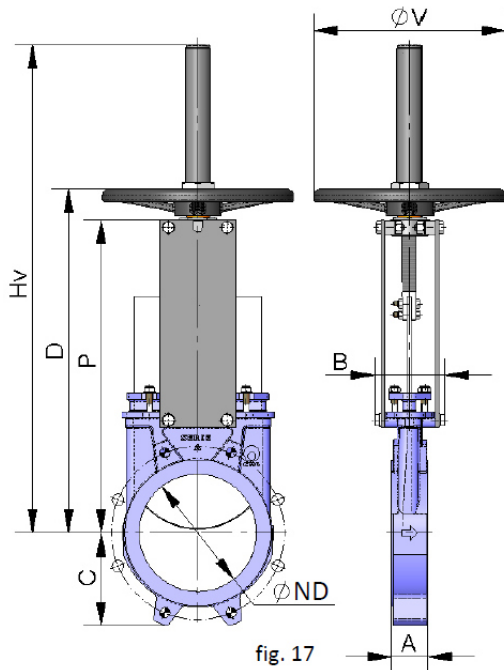


fig. 17

ND	ΔP (kg/cm ²)	DRAW (Nw)	TORQ. (Nm)	A	B	C	P	Hv	D	ϕV	Weight (kg)
50	10	829	2	40	92	63	241	409	280	225	7
65	10	1399	3	40	92	70	268	436	307	225	8
80	10	2119	5	50	92	92	294	469	333	225	9
100	10	3310	8	50	92	105	334	502	373	225	11
125	10	5171	12	50	102	120	367	585	406	225	13
150	10	7448	17	60	102	130	419	644	458	225	17
200	8	10612	30	60	119	160	525	815	578	380	28
250	6	12456	36	70	119	198	626	1016	679	450	40
300	6	17962	51	70	119	234	726	1116	779	450	56
350	5	20406	79	96	290	256	797	1336	906	450	94
400	5	26707	104	100	290	292	903	1442	1012	450	116
450	3	20376	79	106	290	308	989	1628	1098	450	162
500	3	25230	98	110	290	340	1101	1738	1210	450	191
600	3	36506	142	110	290	400	1307	2046	1416	450	264
700	2	33288	182	110	320	453	1506	-	-	-	441
800	2	43788	239	110	320	503	1720	-	-	-	568
900	2	56064	307	110	320	583	1953	-	-	-	736
1000	2	69269	379	110	320	613	2137	-	-	-	921
1200	2	100819	654	150	340	728	2616	-	-	-	1350

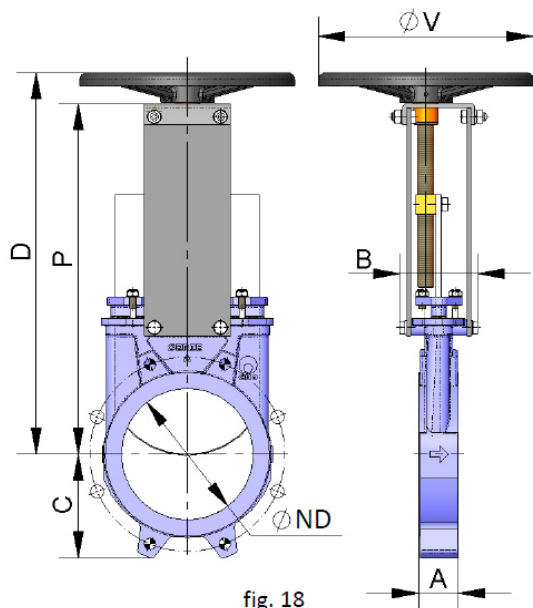


fig. 18

ND	ΔP (kg/cm ²)	DRAW (Nw)	TORQ. (Nm)	A	B	C	P	D	ØV	Weight (kg)
50	10	829	2		101	63	241	280	225	7
65	10	1399	3	40	101	70	268	308	225	8
80	10	2119	5	50	101	92	294	333	225	9
100	10	3310	8	50	101	105	334	373	225	11
125	10	5171	12	50	111	120	367	407	225	13
150	10	7448	17	60	111	130	419	458	225	17
200	8	10612	30	60	128	160	525	578	325	29
250	6	12456	36	70	128	198	626	679	325	40
300	6	17962	51	70	128	234	726	779	380	53
350	5	20406	79	96	305	256	797	906	450	93
400	5	26707	104	100	305	292	903	1012	450	126
450	3	20376	79	106	305	308	989	1098	450	160
500	3	25230	98	110	305	340	1101	1210	450	193
600	3	36506	142	110	305	400	1307	1416	450	264
700	2	33288	182	110	335	453	1506	-	-	435
800	2	43788	239	110	335	503	1720	-	-	580
900	2	56064	307	110	335	583	1953	-	-	740
1000	2	69269	379	110	335	613	2137	-	-	925
1200	2	100819	654	150	355	728	2616	-	-	1350

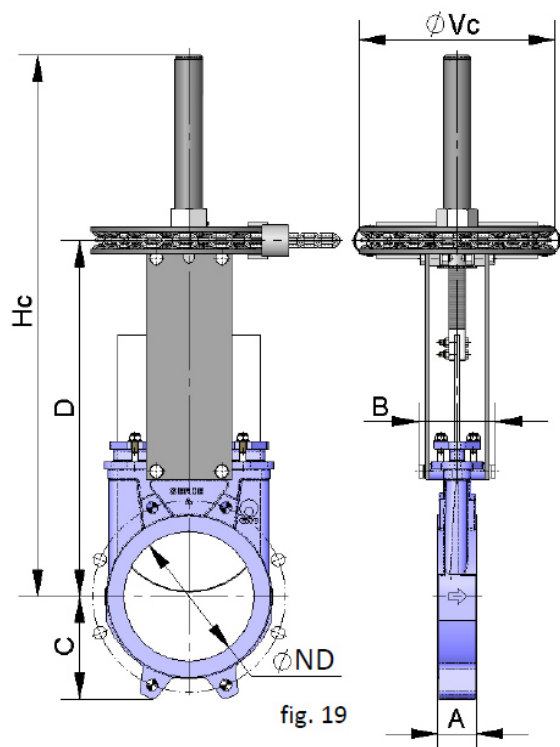


fig. 19

ND	ΔP (kg/cm ²)	DRAW (Nw)	TORQ. (Nm)	A	B	C	D	Hc	ØVc	Weight (kg)
50	10	829	2	40	92	63	264	409	225	7
65	10	1399	3	40	92	70	291	436	225	8
80	10	2119	5	50	92	92	317	469	225	9
100	10	3310	8	50	92	105	357	502	225	11
125	10	5171	12	50	102	120	390	585	225	13
150	10	7448	17	60	102	130	442	644	225	17
200	8	10612	30	60	119	160	551	815	300	29
250	6	12456	36	70	119	198	652	1016	300	40
300	6	17962	51	70	119	234	752	1116	300	53
350	5	20406	79	96	290	256	879	1336	402	93
400	5	26707	104	100	290	292	985	1442	402	126
450	3	20376	79	106	290	308	1071	1628	402	160
500	3	25230	98	110	290	340	1183	1738	402	193
600	3	36506	142	110	290	400	1389	2046	402	264
700	2	33288	182*	110	320	453	1506	2406	402*	435
800	2	43788	239*	110	320	503	1720	2790	402*	580
900	2	56064	307*	110	320	583	1953	3130	402*	740
1000	2	69269	379*	110	320	613	2137	3440	402*	925
1200	2	100819	654*	150	340	728	2616	4050	402*	1350

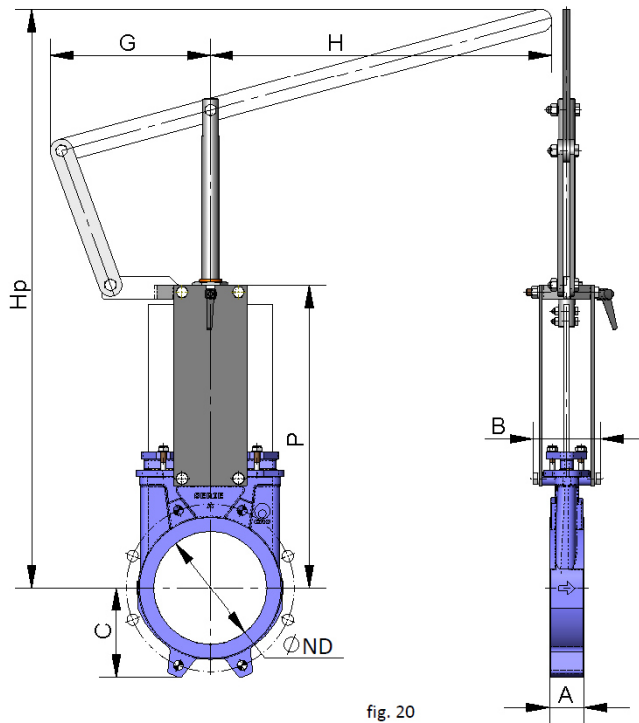


fig. 20

ND	ΔP (kg/cm ²)	DRAW (Nw)	A	B	C	P	G	H	Hp	Weight (kg)
50	10	829	40	92	63	264	155	325	504	8
65	10	1399	40	92	70	291	155	325	526	9
80	10	2119	50	92	92	317	155	325	549	10
100	10	3310	50	92	105	357	155	325	605	11
125	10	5171	50	102	120	390	155	425	902	14
150	10	7448	60	102	130	442	155	425	956	16
200	8	10612	60	119	160	551	290	620	1027	32
250	6	12456	70	119	198	652	290	620	1416	54
300	6	17962	70	119	234	752	290	620	1525	57

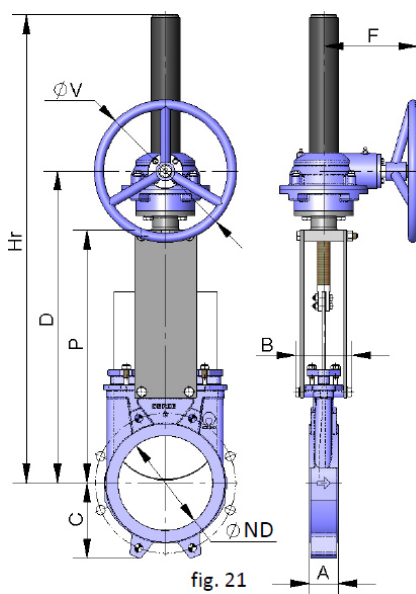


fig. 21

ND	ΔP (kg/cm ²)	DRAW (Nw)	TORQ. (Nm)	A	B	C	P	D	F	ϕV	Hr	Weight (kg)
50	10	829	2	40	92	63	241	366	198	300	450	17
65	10	1399	3	40	92	70	268	392	198	300	566	18
80	10	2119	5	50	92	92	294	418	198	300	592	19
100	10	3310	8	50	92	105	334	458	198	300	632	20
125	10	5171	12	50	102	120	367	491	198	300	665	24
150	10	7448	17	60	102	130	419	543	198	300	717	26
200	8	10612	30	60	119	160	525	648	198	300	942	50
250	6	12456	36	70	119	198	626	749	198	300	1043	63
300	6	17962	51	70	119	234	726	850	198	300	1194	77
350	5	20406	79	96	290	256	797	891	218	450	1335	106
400	5	26707	104	100	290	292	903	997	218	450	1441	134
450	3	20376	79	106	290	308	989	1083	218	450	1677	173
500	3	25230	98	110	290	340	1101	1195	218	450	1789	216
600	3	36506	142	110	290	400	1307	1401	218	450	2045	284
700	2	33288	182	110	320	453	1506	1612	260	450	2401	430
800	2	43788	239	110	320	503	1720	1825	288	650	2715	615
900	2	56064	307	110	320	583	1953	2055	288	650	3043	768
1000	2	69269	379	110	320	613	2137	2246	288	650	3351	972
1100	2	83794	544	150	340	670	2375	2515	352	850	3675	1142
1200	2	100819	654	150	340	728	2616	2760	352	850	4042	1298
1300	2	118409	768	150	390	787	2882	3022	352	850	4382	1400
1400	2	137297	891	150	390	837	3250	3388	352	850	4852	N.D.
1500	2	159330	1034	170	426	890	3517	3661	352	850	5217	N.D.
1600	2	181408	1362	170	426	957	3775	4052	382	650	5575	N.D.
1700	2	204754	1537	190	440	1010	4008	4298	412	850	5908	N.D.
1800	2	232230	1952	190	440	1057	4242	4528	412	850	6242	N.D.
1900	2	258699	2175	210	480	1110	4390	4668	432	1000	6490	N.D.
2000	2	286596	2409	210	480	1162	4540	4830	432	1000	6740	N.D.

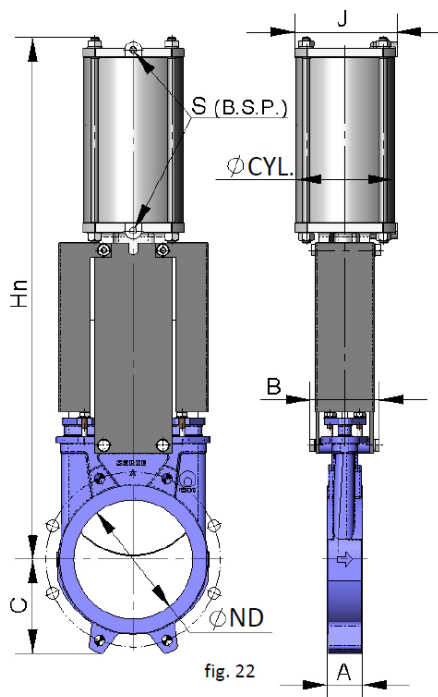


fig. 22

ND	ΔP (kg/cm ²)	DRAW (Nw)	A	B	C	Ø CYL.	Ø ROD	J	S (B.S.P.)	Hn	Weight (kg)
50	10	829	40	92	63	80	20	96	1/4"	415	7
65	10	1399	40	92	70	80	20	96	1/4"	455	8
80	10	2119	50	92	92	80	20	96	1/4"	498	9
100	10	3310	50	92	105	100	20	115	1/4"	565	12
125	10	5171	50	102	120	125	25	138	1/4"	636	18
150	10	7448	60	102	130	125	25	138	1/4"	717	22
200	8	10612	60	119	160	160	30	175	1/4"	874	37
250	6	12456	70	119	198	200	30	218	3/8"	1036	58
300	6	17962	70	119	234	200	30	218	3/8"	1182	72
350	5	20406	96	290	256	250	40	270	3/8"	1380	130
400	5	26707	100	290	292	250	40	270	3/8"	1530	155
450	3	20376	106	290	308	300	45	382	1/2"	1677	225
500	3	25230	110	290	340	300	45	382	1/2"	1839	257
600	3	36506	110	290	400	300	45	382	1/2"	2146	340
700	2	33288	110	320	453	350	45	426	1/2"	2481	556
800	2	43788	110	320	503	350	45	426	1/2"	2798	679
900	2	56064	110	320	583	400	50	508	1/2"	3167	840
1000	*	*	110	320	613	400	50	508	1/2"	3451	1053
1100	*	*	150	340	670	400	50	508	1/2"	3792	1210
1200	*	*	150	340	728	400	50	508	1/2"	4135	1366

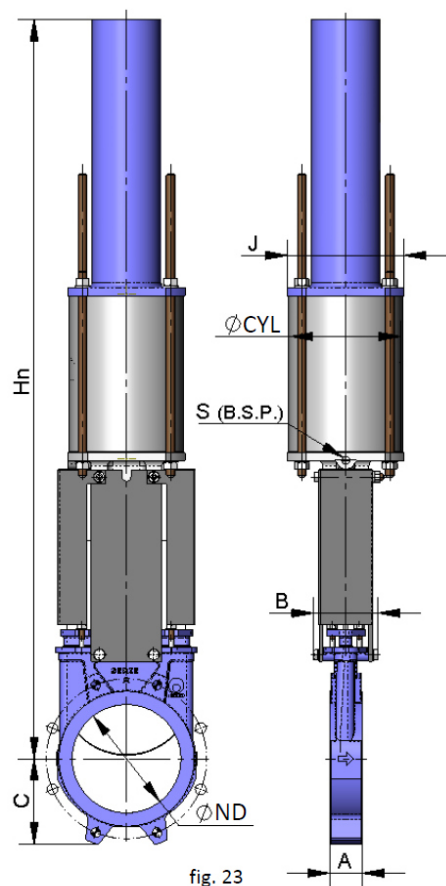
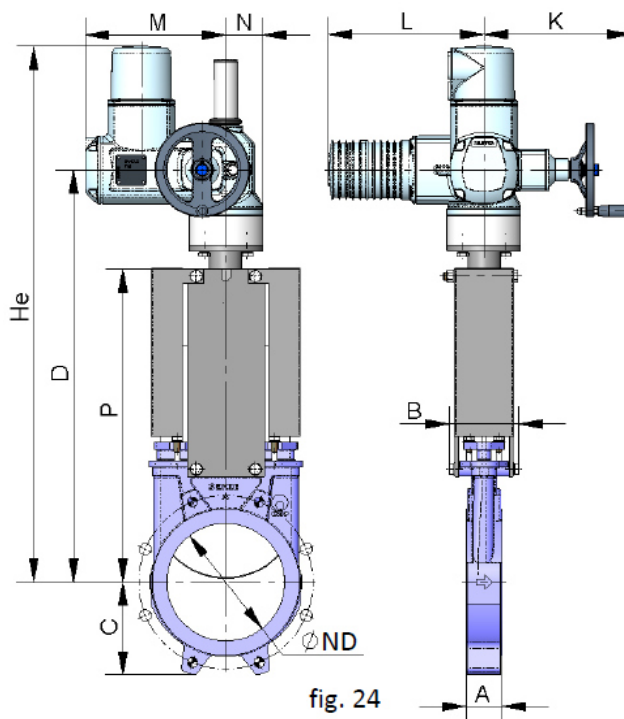


fig. 23

ND	ΔP (kg/cm ²)	DRAW (Nw)	A	B	C	Ø CYL.	Ø ROD	J	S (B.S.P.)	Hn	Weight (kg)
50	10	829	40	92	63	80	25	138	1/4"	781	19
65	10	1399	40	92	70	80	25	138	1/4"	806	22
80	10	2119	50	92	92	80	25	138	1/4"	833	23
100	10	3310	50	92	105	100	25	138	1/4"	873	24
125	10	5171	50	102	120	125	30	175	1/4"	909	35
150	10	7448	60	102	130	125	30	175	1/4"	960	36
200	8	10612	60	119	160	160	30	218	3/8"	1355	66
250	6	12456	70	119	198	200	40	270	3/8"	1844	130
300	6	17962	70	119	234	200	40	270	3/8"	2005	143



ND	ΔP (kg/cm ²)	DRAW (Nw)	TORQ (Nm)	A	B	C	D	K	L	M	N	P	He	Weight (kg)
50	10	829	2	40	92	63	400	249	265	238	62	241	595	24
65	10	1399	3	40	92	70	426	249	265	238	62	268	622	25
80	10	2119	5	50	92	92	452	249	265	238	62	294	647	26
100	10	3310	8	50	92	105	492	249	265	238	62	334	687	27
125	10	5171	12	50	102	120	525	249	265	238	62	367	720	30
150	10	7448	17	60	102	130	577	249	265	238	62	419	772	32
200	8	10612	30	60	119	160	685	249	265	238	62	525	990	42
250	6	12456	36	70	119	198	785	249	265	238	62	626	1090	55
300	6	17962	51	70	119	234	885	249	265	238	62	726	1190	72
350	5	20406	79	96	290	256	940	254	283	248	65	797	1305	99
400	5	26707	104	100	290	292	1045	254	283	248	65	903	1460	136
450	3	20376	79	106	290	308	1175	336	389	286	91	989	1755	166
500	3	25230	98	110	290	340	1290	336	389	286	91	1101	1870	245
600	3	36506	142	110	290	400	1495	336	389	286	91	1307	2045	362
700	2	33288	182	110	320	453	1661	336	389	286	91	1506	2401	432
800	2	43788	239	110	320	503	1875	339	389	286	91	1720	2715	630
900	2	56064	307	110	320	583	2108	339	389	286	91	1953	3043	764
1000	2	69269	379	110	320	613	2292	339	389	286	91	2137	3351	998
1100	2	83794	544	150	340	670	2530	339	389	286	91	2375	3675	1194
1200	2	100819	654	150	340	728	2760	336	389	528	125	2616	4042	1350
1300	2	118409	768	150	390	787	3022	336	389	528	125	2882	4382	1452
1400	2	137297	891	150	390	837	3388	339	389	528	125	3250	4852	N.D.
1500	2	159330	1034	170	426	890	3661	339	389	528	125	3517	5217	N.D.
1600	2	181408	1362	170	426	957	4052	339	389	570	170	3775	5575	N.D.
1700	2	204754	1537	190	440	1010	4298	339	389	570	170	4008	5908	N.D.
1800	2	232230	1952	190	440	1057	4528	336	389	646	170	4242	6242	N.D.
1900	2	258699	2175	210	480	1110	4668	336	389	646	170	4390	6490	N.D.
2000	2	286596	2409	210	480	1162	4830	339	389	646	170	4540	6740	N.D.

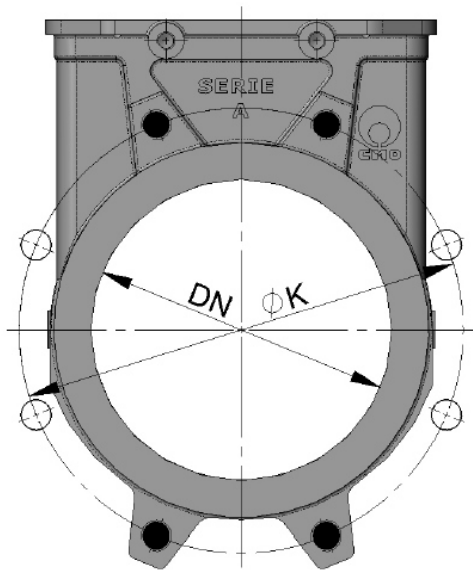


fig. 26

- BLIND TAPPED HOLES
- THROUGH HOLE

ND	ΔP (kg/cm ²)	•	O	Metric	Prof	ØK
50	10	4	-	M 16	8	125
65	10	4	-	M 16	8	145
80	10	4	4	M 16	9	160
100	10	4	4	M 16	9	180
125	10	4	4	M 16	9	210
150	10	4	4	M 20	10	240
200	8	4	4	M 20	10	295
250	6	6	6	M 20	12	350
300	6	6	6	M 20	12	400
350	5	10	6	M 20	21	460
400	5	10	6	M 24	21	515
450	3	14	6	M 24	22	565
500	3	14	6	M 24	22	620
600	3	14	6	M 27	22	725
700	2	16	8	M 27	22	840
800	2	16	8	M 30	22	950
900	2	20	8	M 30	20	1050
1000	2	20	8	M 33	20	1160
1100	2	20	12	M 33	20	1270
1200	2	20	12	M 36	22	1380
1300	2	20	12	M 36	26	1490
1400	2	24	12	M 39	26	1590
1500	2	24	12	M 39	35	1700
1600	2	28	12	M 45	40	1820
1700	2	30	14	M 45	40	1920
1800	2	30	14	M 45	40	2020
1900	2	32	16	M 45	45	2120
2000	2	32	16	M 45	45	2230