

PN 10/16 - DN 100...1000

KAT-A 1310-EG

Product characteristics and benefits

- Butterfly valve for gas according to EN 13774
- Face-to-face length acc. to EN 558-1, basic series 14 (DIN 3202, F4)
- With flange ends on both sides acc. to EN 1092-2
- Double-offset disk bearing mounted in maintenance-free bushing
- Medium free bearing (dry shaft) in body by means of double O-ring sealing and closed disk eyes
- Wear-resistant, corrosion-resistant and undermining-resistant seat
- Possible to replace profile sealing ring without disassembling the disk
- Automatic sealing system with enclosed and pressure-supported profile sealing ring
- Vacuum tight up to 1 Torr
- Tight in both flow directions acc. EN 12266
- With self-locking, fully enclosed, maintenance-free worm gear including mechanical position indicator

Materials

- Body: Ductile iron EN-GJS-400-15 (GGG-40)
- Disk: Ductile iron EN-GJS-400-15 (GGG-40) (exception: DN 100 / DN 125 stainless steel 1.4408)
- Valve sealing: NBR
- O-rings: NBR
- Butterfly valve stem: Stainless steel 1.4021
- Seat: High-alloy weld overlay, microfinished

Corrosion protection

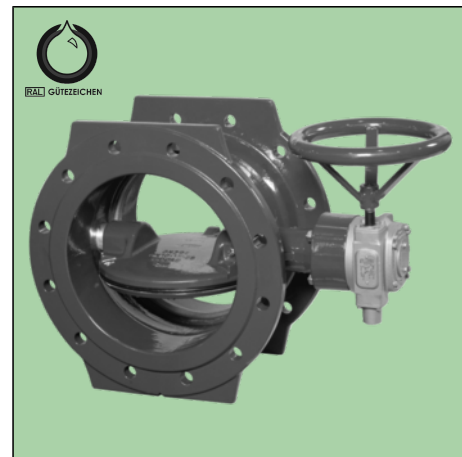
- Body: Internally and externally epoxy coated acc. to GSK guidelines
- Disk: Epoxy coated according to GSK guidelines (exception: DN 100 / DN 125 stainless steel)

Versions

- With electric actuator
- With handwheel
- With pneumatic actuator
- With hydraulic actuator
- Special designs and bigger sizes available on request

Field of application

- Underground installation
- Chamber installation
- Installation in plants



Tests and approvals

- Final inspection test according to EN 13774
- DVGW tested and registered

Accessories

- T-key
- Installation equipment
- Extension spindle
- Surface box cast iron
- Plastic base plate

Note

For proper installation and safe operation please follow the installation and operation instructions:
KAT-B 1310

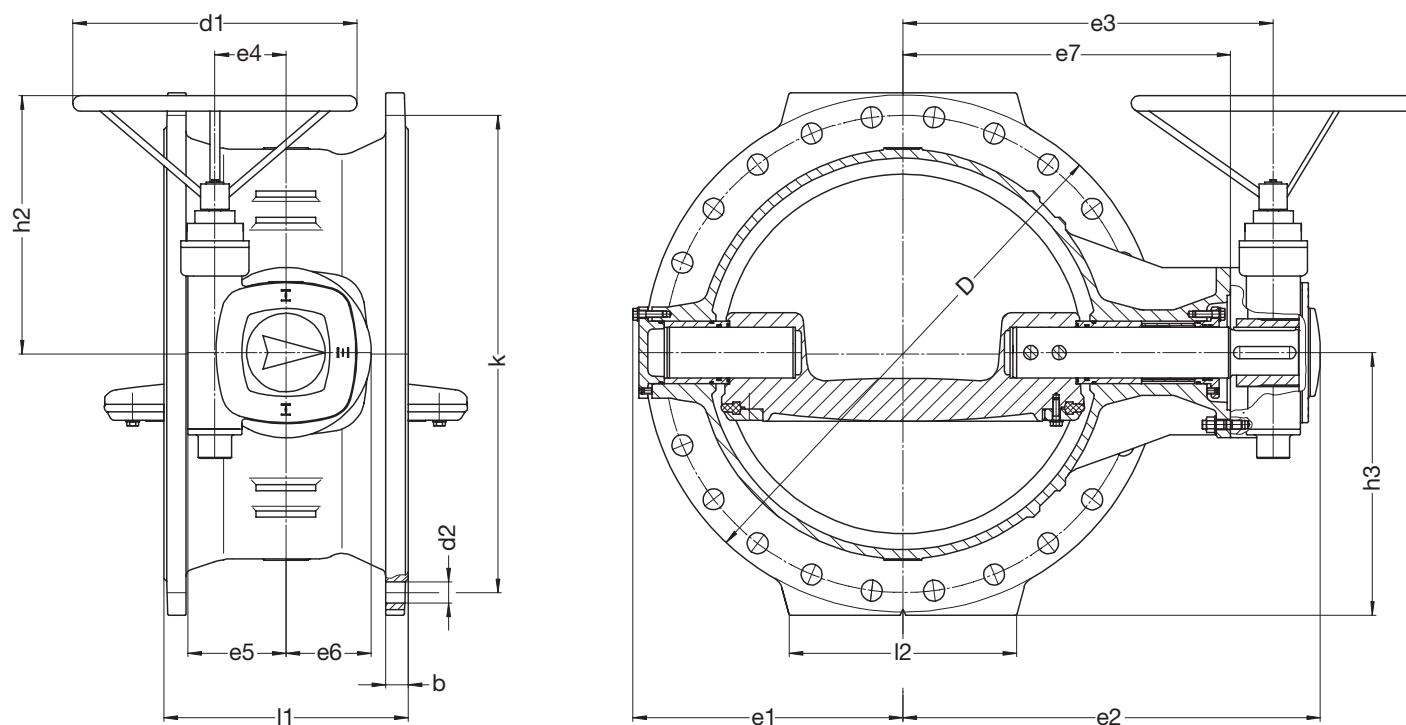
Gas system applications

DN	PN	Maximum operating pressure [bar]	Maximum operating temperature for gasses to DVGW G 260 [°C]
100...1000	16	16	50
200...1000	10	10	50

Pressure test acc. to EN 12266

Test pressure body with water [bar]	Test pressure body with air [bar]	Test pressure seat with air [bar]
24	17.6	0.006/17.6
15	17.6	0.006/17.6

Drawing



Valves with pressure rating of PN 6 are generally manufactured according to EN 1092-2 and drilled to PN 10, PN 6 drilling is available on request.

Technical data

PN 10

DN		200	250	300	350	400	450	500	600	700	800	900	1000
D	[mm]	340	400	455	505	565	615	670	780	900	1020	1120	1245
b	[mm]	20	22	24.5	24.5	24.5	26.5	26.5	30	32.5	35	37.5	40
k	[mm]	295	350	400	460	515	565	620	725	840	950	1050	1160
d1	[mm]	250	250	250	250	350	400	400	500	500	400	400	400
d2	[mm]	23	23	23	23	28	28	28	31	31	34	34	37
e1	[mm]	169	199	236	261	285	306	345	392	462	512	576	640
e2 max.	[mm]	324	367	417	427	471	523	554	629	748	802	833	915
e3 max.	[mm]	261	354	406	499	648	777	261	354	408	473	660	750
e4 max.	[mm]	76	76	102	136	178	210	76	76	102	102	136	178
e5 max.	[mm]	139	139	165	320	330	477	139	139	165	286	320	330
e6 max.	[mm]	85	85	109	143	188	225	85	85	109	109	163	188
e7	[mm]	216	259	309	319	358	385	416	466	559	613	675	729
h2 max.	[mm]	298	298	362	586	564	730	298	298	342	522	586	544
h3	[mm]	175	205	232	265	288	312	340	395	455	515	565	630
l1	[mm]	230	250	270	290	310	330	350	390	430	470	510	550
l2	[mm]	185	225	260	270	300	250	300	330	400	450	550	600
No. of holes		8	12	12	16	16	20	20	20	24	24	28	28
Weight approx.	[kg]	44.00	60.00	81.00	110.00	135.00	190.00	240.00	320.00	470.00	620.00	800.00	1050.00
Volume approx.	[m ³]	37	55	78	98	131	165	207	309	458	616	803	1065

Technical data

PN 16

DN		100	125	150	200	250	300	350	400	450	500	600	700
D	[mm]	220	250	285	340	400	455	520	580	640	715	840	910
b	[mm]	19	19	19	20	22	24.5	26.5	28	31.5	31.5	36	39.5
k	[mm]	180	210	240	295	355	410	470	525	585	650	770	840
d1	[mm]	250	250	250	250	250	250	350	400	400	500	500	500
d2	[mm]	19	19	23	23	28	28	28	31	31	34	37	37
e1	[mm]	110	125	134	169	199	236	261	298	306	357	413	470
e2 max.	[mm]	230	240	293	324	367	417	446	469	523	583	699	736
e3 max.	[mm]	184	194	230	304	383	460	611	724	892	304	364	442
e4 max.	[mm]	50	50	76	76	102	102	136	178	210	76	76	102
e5 max.	[mm]	73	73	139	139	165	254	320	362	477	139	139	254
e6 max.	[mm]	54	54	85	85	109	109	163	192	235	85	85	109
e7	[mm]	149	159	185	216	259	309	333	356	385	424	510	573
h2 max.	[mm]	230	230	298	298	342	500	586	573	710	298	298	500
h3	[mm]	119.5	119.5	150	175	205	232	265	295	325	362	425	460
l1	[mm]	190	200	210	230	250	270	290	310	330	350	390	430
l2	[mm]	120	120	150	185	225	260	270	320	250	300	330	400
No. of holes		8	8	8	12	12	12	16	16	20	20	20	24
Weight approx.	[kg]	16.60	18.65	30.00	44.00	60.00	85.00	116.00	155.00	237.00	300.00	460.00	670.00
Volume ap-prox.	[m ³]	15	18	25	37	55	78	106	137	172	235	356	472

PN 16

DN		800	900	1000
D	[mm]	1025	1125	1255
b	[mm]	43	46.5	50
k	[mm]	950	1050	1170
d1	[mm]	400	500	400
d2	[mm]	41	41	44
e1	[mm]	537	589	665
e2 max.	[mm]	822	865	1005
e3 max.	[mm]	541	714	822
e4 max.	[mm]	102	136	178
e5 max.	[mm]	254	320	362
e6 max.	[mm]	115	163	192
e7	[mm]	631	680	774
h2 max.	[mm]	520	566	573
h3	[mm]	520	570	635
l1	[mm]	470	510	550
l2	[mm]	450	550	600
No. of holes		24	28	28
Weight approx.	[kg]	775.00	970.00	1320.00
Volume ap-prox.	[m ³]	655	834	1153

Type of actuator

