VAG EKN® Butterfly Valve
short pattern F16 - epoxy

PN 10/16 - DN 200...1200
KAT-A 1319-EW

Product characteristics and benefits

- Resilient seated in accordance with EN 593
- Face-to-face length acc. to EN 558-1, basic series 13 (DIN 3202, F16)
- 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
- Blow-out proof shaft and shaft sealing
- With self-locking, fully enclosed, maintenance-free worm gear including mechanical position indicator

Materials

- Body: Ductile cast iron EN-JS 1030 (GGG-40)
- Disk: Ductile cast iron EN-JS 1030 (GGG-40)
- Valve sealing: EPDM
- O-rings: EPDM
- Butterfly valve stem: Stainless steel 1.4021
- Shaft bearing: Zincfree bronze
- Seat: Chrome-nickel overlay welded, microfinished

Corrosion protection

- Body: Inside and outside epoxy coating acc. to GSK guidelines
- Disk: Epoxy coating according to GSK guidelines

Versions

- Standard version as described
- With handwheel
- With electric actuator
- With pneumatic actuator
- Special designs available on request
- With ceramic coating

Field of Application

- Underground installation
- Chamber installation
- Installation in plants

Tests and approvals

- Final inspection test acc. to EN 12266 (DIN 3230 Part 4)
- DVGW tested and registered
- Elastomers approved acc. to W270

Accessories

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

Operation data

- Maximum flow velocity in fully open position:
  - PN 16: 4 m/s
  - PN 10: 3 m/s

Note

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

Field of application

DN	PN	Maximum operating pressure [bar]	Maximum operating temperature for neutral liquids [°C]
200...1200	16	16	50
200...1200	10	10	50

Pressure test acc. to EN 12266

Test pressure body with water [bar]	Test pressure seat with water [bar]
24	18
15	11

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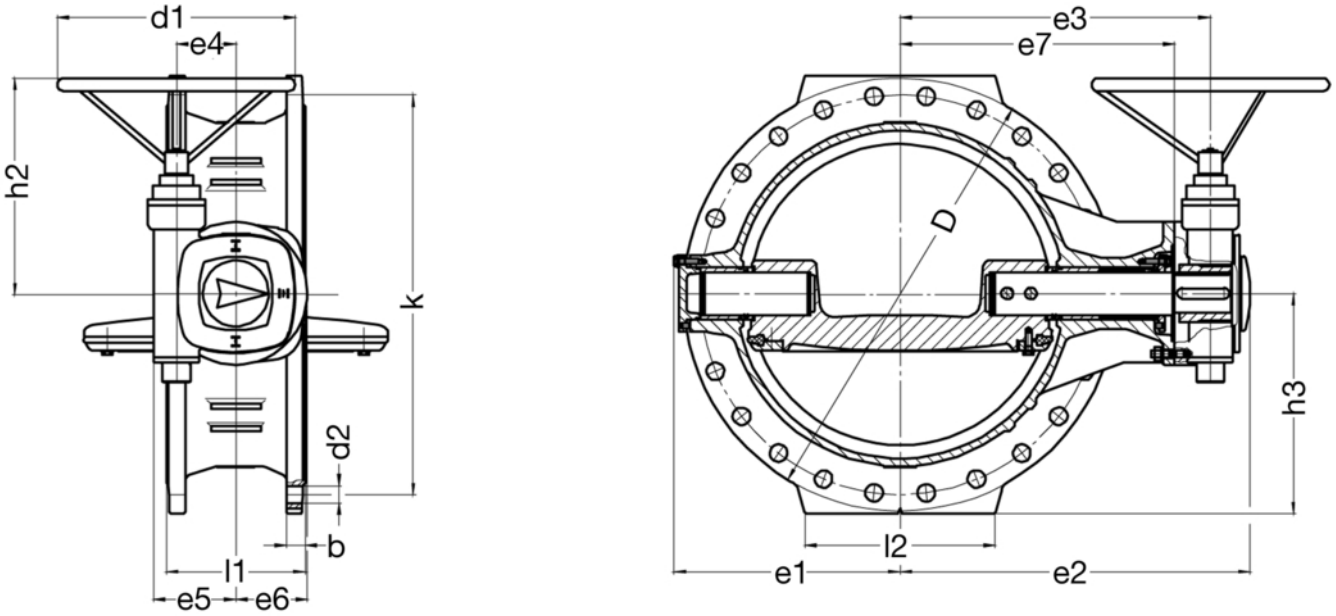
Drawing



Technical data

PN 16

DN		200	250	300	350	400	450	500	600	700	800	900	1000
D	[mm]	340	400	455	520	580	640	715	840	910	1025	1125	1255
b	[mm]	20	22	24.5	26.5	28	31.5	31.5	36	39.5	43	46.5	50
d1	[mm]	250	250	250	350	40	400	500	500	500	400	500	400
d2	[mm]	23	38	38	38	31	31	34	37	37	41	41	44
e1	[mm]	169	199	236	261	298	306	357	413	470	537	589	665
e2	[mm]	308	351	401	440	463	508	583	673	736	822	865	1005
e3	[mm]	256	299	349	378	401	460	499	585	648	721	770	890
e4	[mm]	50	50	50	63	80	100	100	125	125	160	160	200
e5	[mm]	73	73	73	94	94	148	148	173	173	218	218	273
e6	[mm]	54	54	54	75	75	105	105	150	150	175	175	208
e7	[mm]	216	259	309	333	356	385	424	510	573	631	680	774
h2	[mm]	231	231	231	283	308	367	407	395	395	517	537	642
h3	[mm]	175	205	232	265	295	325	362	445	485	535	570	635
k	[mm]	295	350	400	460	515	565	620	725	840	950	1050	1160
l1	[mm]	152	165	178	190	216	222	229	267	292	318	330	410
l2	[mm]	185	225	260	270	320	300	300	400	400	500	550	600
No. of holes		12	12	12	16	16	20	20	20	24	24	28	28
Turns/stroke		12.75	12.75	12.75	12.75	13.25	13.25	13	51	51	110.5	110.5	216
Weight approx.	[kg]	40.00	60.00	85.00	116.00	150.00	235.00	295.00	455.00	650.00	725.00	930.00	1300.00

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Technical data

PN 16

DN		1200
D	[mm]	1485
b	[mm]	57
d1	[mm]	500
d2	[mm]	50
e1	[mm]	784
e2	[mm]	1154
e3	[mm]	1014
e4	[mm]	250
e5	[mm]	335
e6	[mm]	258
e7	[mm]	884
h2	[mm]	722
h3	[mm]	750
k	[mm]	1380
l1	[mm]	470
l2	[mm]	700
No. of holes		32
Turns/stroke		212
Weight approx.	[kg]	2050.00

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
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	[mm]	308	351	401	411	465	508	539	625	722	722	830	915
e3	[mm]	256	299	349	359	403	442	473	541	634	684	750	820
e4	[mm]	50	50	50	63	63	80	80	100	125	125	160	160
e5	[mm]	73	73	73	73	94	111	111	148	173	173	218	218
e6	[mm]	54	54	54	54	75	88	88	105	150	150	175	175
e7	[mm]	216	259	309	319	358	385	416	466	559	613	675	729
h2	[mm]	231	231	231	231	231	308	308	407	395	432	520	520
h3	[mm]	175	205	232	265	288	312	340	400	470	520	565	630
k	[mm]	295	350	400	460	515	565	620	725	840	950	1050	1160
l1	[mm]	152	165	178	190	216	222	229	267	292	318	330	410
l2	[mm]	185	225	260	270	300	300	300	400	400	500	550	600
No. of holes		8	12	12	16	16	20	20	20	24	24	28	28
Turns/stroke		12.75	12.75	12.75	12.75	12.75	13.25	13.25	13	51	51	110.5	110.5
Weight approx.	[kg]	40.00	55.00	81.00	110.00	133.00	180.00	230.00	315.00	465.00	600.00	790.00	1030.00

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Technical data

PN 10

DN		1200
D	[mm]	1470
b	[mm]	45
d1	[mm]	500
d2	[mm]	41
e1	[mm]	763
e2	[mm]	1104
e3	[mm]	989
e4	[mm]	200
e5	[mm]	273
e6	[mm]	208
e7	[mm]	874
h2	[mm]	667
h3	[mm]	740
k	[mm]	1380
l1	[mm]	470
l2	[mm]	700
No. of holes		32
Turns/stroke		216
Weight approx.	[kg]	1715.00

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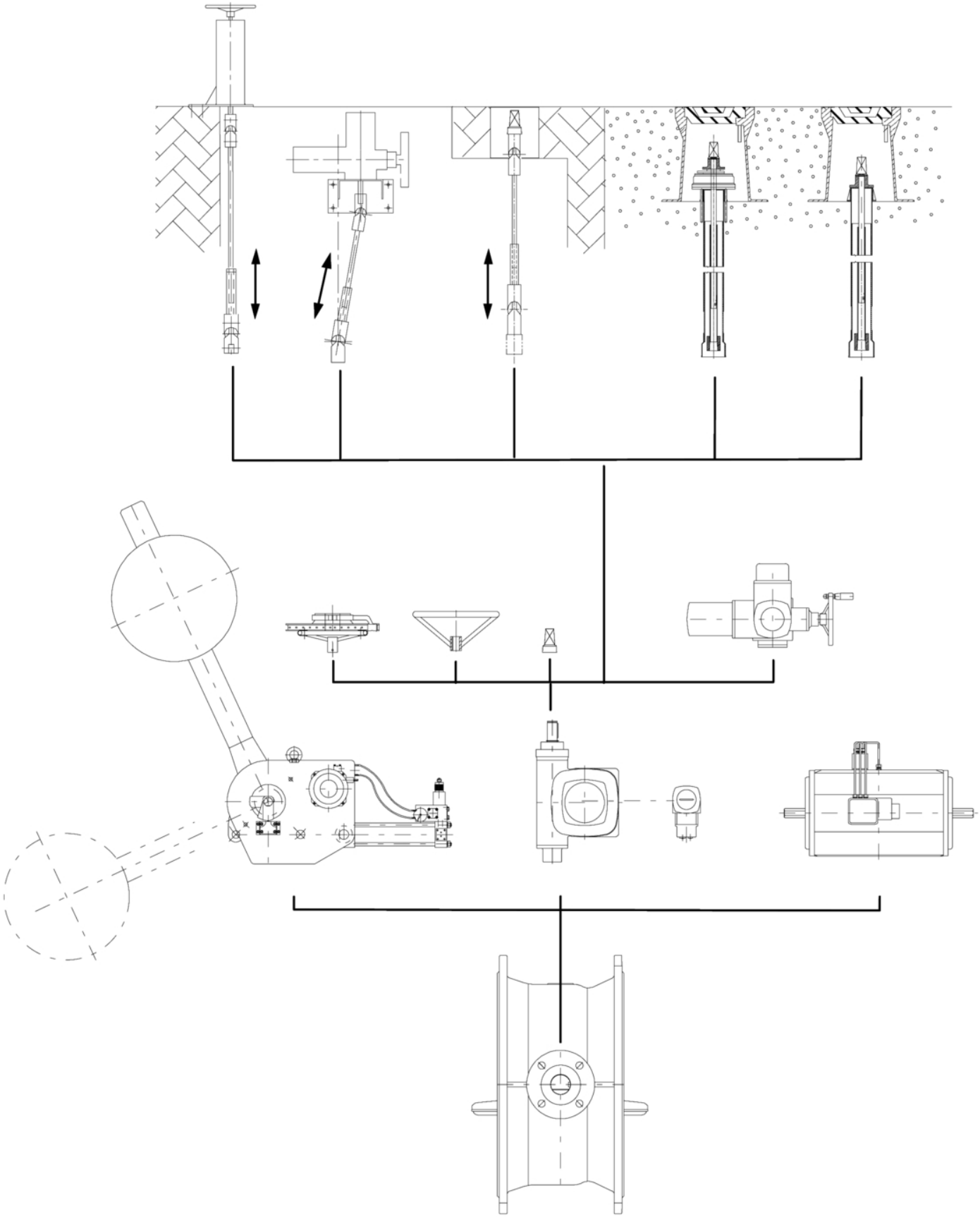
Type of actuator



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