

PN 10/16 - DN 80...1200

KAT-A 1130-IL-EA

Product characteristics and benefits

- Metallic sealing in accordance with EN 1171 (DIN 3352 - Part 2)
- Face-to-face length acc. to EN 558-1, basic series 15 (DIN 3202, F5)
- With flange ends on both sides acc. to EN 1092-2, PN 10 respectively PN 16
- Stem thread inside
- With electric actuator
- Adjustable stuffing box
- With drain plug

Materials

- Body: Ductile iron EN-GJS-400-15 (GGG-40)
- Bonnet: Ductile iron EN-GJS-400-15 (GGG-40)
- Wedge: Ductile iron EN-GJS 400-15 (GGG-40)
- Bonnet bolts: Stainless steel A4 (DIN EN ISO 3506)
- Body and wedge seat rings: Zinc-free bronze (waste-water resistant)
- Stem: Stainless steel 1.4057
- Stem nut: Zinc-free bronze (wastewater resistant)

Corrosion protection

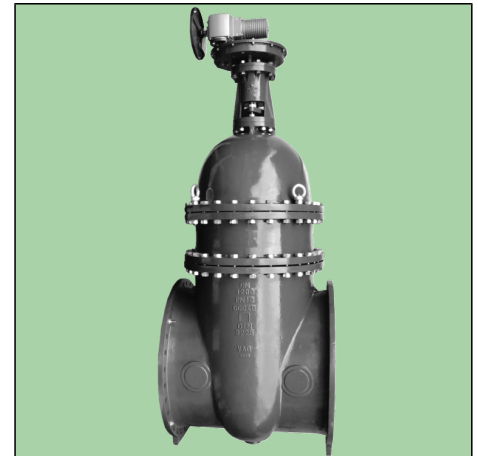
- Internally and externally epoxy coated

Versions

- Standard version as described
- With gearbox
- With mechanical position indicator at electric actuator
- With bypass
- With extended pipe column for underground installation

Field of application

- Underground installation
- Chamber installation
- Installation in plants



Tests and approvals

- Final inspection test acc. to EN 12266

Accessories

- Extension spindle

Note

For proper installation and safe operation please follow the installation and operation instructions:

“Installation and Operating Instructions for Valves”

Field of application

DN	PN	Maximum operating pressure [bar]	Maximum operating temperature for neutral liquids [°C]
80...1200	10	10	60
80...1200	16	16	60

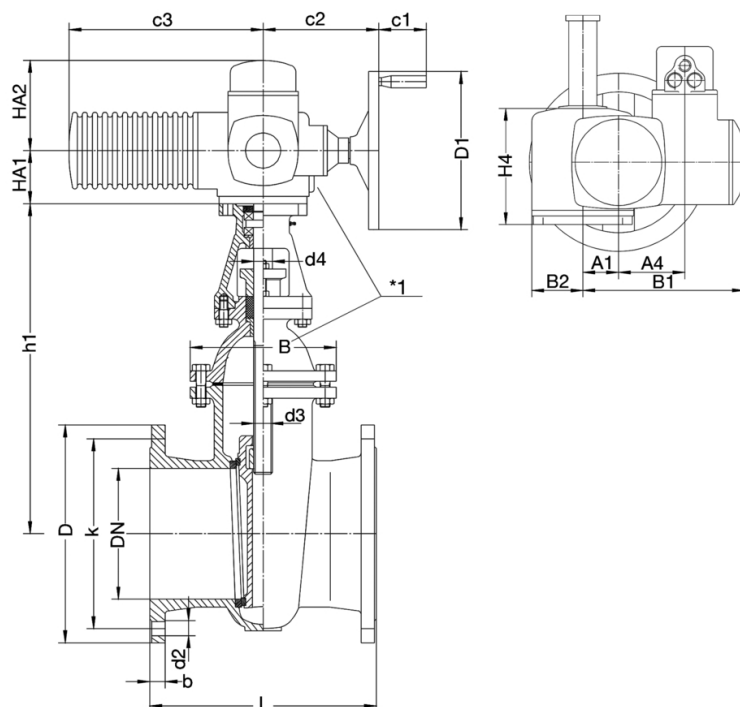
Flange connection dimensions PN 10 and/or PN 16

Pressure test acc. to EN 12266

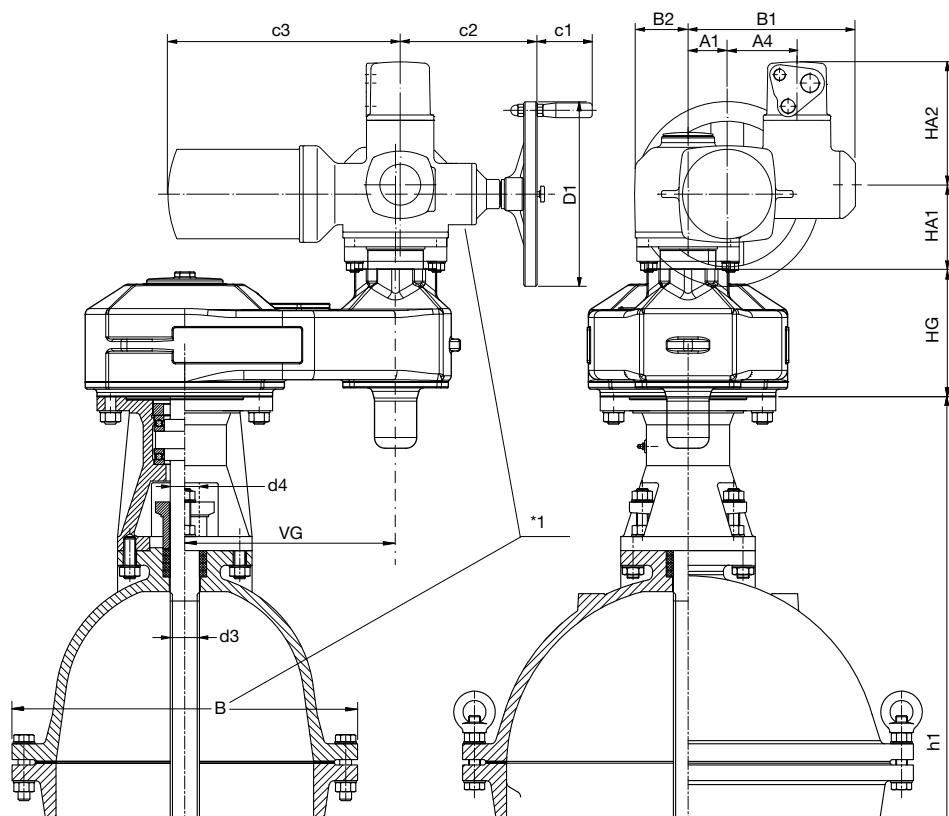
Test pressure body with water [bar]	Test pressure seat with water [bar]
15	11
24	17.6

Drawing

Direct actuator installation



Actuator installation with gearbox



*1: Actuator and dimension "B" shown turned by 90°



Technical data

PN 10

DN	80	100	125	150	200	250	300	350	400	450	500	600
Actuator	SA 07.5	SA 07.5	SA 07.5	SA 10.1	SA 10.1	SA 14.1	SA 14.1	SA 14.5	SA 14.5	SA 16.1	SA 16.1	SA 16.1
Δp max differen- [bar] tial pressure for operation	10	10	10	10	10	10	10	10	10	10	10	9.5
A1 [mm]	40	40	40	50	50	63	63	63	63	80	80	80
A4 [mm]	103	103	103	103	103	117	117	117	117	122	122	122
D [mm]	200	220	250	285	340	395	445	505	565	615	670	780
L [mm]	280	300	325	350	400	450	500	550	600	650	700	800
b [mm]	19	19	19	19	20	22	24.5	24.5	24.5	25.5	26.5	30
k [mm]	160	180	210	240	295	350	400	460	515	565	620	725
B [mm]	220	260	295	330	400	460	550	585	670	720	820	960
B1 [mm]	237	237	237	247	247	285	285	285	285	307	307	307
B2 [mm]	62	62	62	65	65	90	90	90	90	115	115	115
C1 [mm]	265	265	265	282	282	384	384	384	384	510	510	510
C2 [mm]	186	186	186	191	191	235	235	242	242	260	260	260
C3 [mm]	63	63	63	63	63	94	94	94	94	94	94	94
D1 [mm]	160	160	160	200	200	315	315	400	400	500	500	500
H4 [mm]	155	155	155	168	168	213	213	213	213	253	253	253
HA1 [mm]	78	78	78	80	80	110	110	110	110	130	130	130
HA2 [mm]	195	195	195	195	195	205	205	205	205	205	205	205
d2 [mm]	19	19	19	23	23	23	23	23	28	28	28	31
d3/4 [mm]	24	26	28	28	32	36	36	40	44	44	50	50
g [mm]	40	40	40	50	50	65	65	65	65	80	80	80
h1 [mm]	376	460	502	525	625	722	795	885	1040	1115	1220	1386
No. of holes	8	8	8	8	8	12	12	16	16	20	20	20
Turns/stroke	21	24	30	36	38	47	56	55	62	70	68	82
Weight with EA [kg]	60	69	88	115	160	244	302	401	534	721	836	1126
Volume with EA [m³] approx.	0.250	0.280	0.310	0.350	0.410	0.660	0.740	0.840	1.000	1.340	1.530	1.920

DN 500 PN 16 valve is available without and with gearbox

VAG KOS Gate Valve, oval type, with non-rising stem

metallic sealing - long face-to-face length - with electric actuator



Wastewater

Technical data

PN 10

DN		700	800	900	1000	1200
Actuator		SA 16.1	SA 16.1	SA 16.1	SA 16.1	SA 16.1
Δp max differential pressure for operation	[bar]	6	4.5	3	2.5	1.5
A1	[mm]	80	80	80	80	80
A4	[mm]	122	122	122	122	122
D	[mm]	895	1015	1115	1230	1455
L	[mm]	900	1000	1100	1200	1400
b	[mm]	32.5	35	37.5	40	45
k	[mm]	840	950	1050	1160	1380
B	[mm]	1030	1160	1260	1400	1655
B1	[mm]	307	307	307	307	307
B2	[mm]	115	115	115	115	115
C1	[mm]	510	510	510	510	510
C2	[mm]	260	260	260	260	260
C3	[mm]	94	94	94	94	94
D1	[mm]	500	500	500	500	500
H4	[mm]	253	253	253	253	253
HA1	[mm]	130	130	130	130	130
HA2	[mm]	205	205	205	205	205
d2	[mm]	31	34	34	37	41
d3/4	[mm]	55	60	65	70	85
g	[mm]	80	80	80	80	80
h1	[mm]	1558	1805	1810	2255	2632
No. of holes		24	24	28	28	32
Turns/stroke		82	94	95	105	107
Weight with EA	[kg]	1467	1957	2557	3721	5391
Volume with EA approx.	[m³]	2.360	3.130	3.650	4.960	9.990

DN 500 PN 16 valve is available without and with gearbox



Technical data

PN 16

DN	80	100	125	150	200	250	300	350	400	450	500	600
Actuator	SA 07.5	SA 07.5	SA 10.1	SA 10.1	SA 14.1	SA 14.1	SA 14.5	SA 14.5	SA 16.1	SA 16.1	SA 16.1/SA 14.6	SA 16.2
Gearbox type	-	-	-	-	-	-	-	-	-	-	AUMA GST 25.1 i=4:1	-
Δp max differential pressure for operation [bar]	16	16	16	16	16	16	16	16	16	16	14/16	9.5
A1 [mm]	40	40	50	50	63	63	63	63	80	80	67	80
A4 [mm]	103	103	103	103	117	117	117	117	122	122	119	122
D [mm]	200	220	250	285	340	405	460	520	580	640	715	840
L [mm]	280	300	325	350	400	450	500	550	600	650	700	800
b [mm]	19	19	19	19	20	22	24.5	26.5	28	30	31.5	36
k [mm]	160	180	210	240	295	355	410	470	525	585	650	770
B [mm]	220	260	295	330	400	460	550	585	670	720	770	960
B1 [mm]	237	237	247	247	285	285	285	285	307	307	286	307
B2 [mm]	62	62	65	65	90	90	90	90	115	115	91	115
C1 [mm]	265	265	282	282	384	384	384	384	510	510	389	510
C2 [mm]	186	186	191	191	235	235	242	242	260	260	245	260
C3 [mm]	63	63	63	63	94	94	94	94	94	94	94	94
D1 [mm]	160	160	200	200	315	315	400	400	500	500	400	500
H4 [mm]	155	155	168	168	213	213	213	213	253	253	196	253
HA1 [mm]	78	78	80	80	110	110	110	110	130	130	90	130
HA2 [mm]	195	195	195	195	205	205	205	205	205	205	253	205
HG	-	-	-	-	-	-	-	-	-	-	253	-
VG	-	-	-	-	-	-	-	-	-	-	360	-
d2 [mm]	19	19	19	23	23	28	28	28	31	31	34	37
d3/4 [mm]	24	26	28	28	32	36	36	40	44	44	42	50
g [mm]	40	40	50	50	65	65	65	65	80	80	80	80
h1 [mm]	376	460	502	525	625	722	795	885	1040	1115	1246	1386
No. of holes	8	8	8	8	12	12	12	16	16	20	20	20
Turns/stroke	21	24	30	36	38	47	56	55	62	70	68	82
Weight with EA [kg]	60	69	93	115	186	244	307	401	568	721	836/878	1126
Volume with EA [m ³] approx.	0.250	0.280	0.320	0.350	0.580	0.660	0.750	0.840	1.190	1.350	1.550	1.940

DN 500 PN 16 valve is available without and with gearbox

VAG KOS Gate Valve, oval type, with non-rising stem

metallic sealing - long face-to-face length - with electric actuator



Wastewater

Technical data

PN 16

DN		700	800	1000	1200
Actuator		SA 14.6	SA 14.6	SA 16.2	SA 16.2
Gearbox type		AUMA GST 30.1 i=5,6:1	AUMA GST 30.1 i=8:1	AUMA GST 35.1 i=8:1	AUMA GST 40.1 i=11:1
Δp max differential pressure for operation	[bar]	16	16	16	16
A1	[mm]	67	80	80	80
A4	[mm]	119	122	123.5	123.5
D	[mm]	910	1025	1255	1485
L	[mm]	900	1000	1200	1400
b	[mm]	39.5	43	50	57
k	[mm]	840	950	1170	1390
B	[mm]	1040	1144	1420	1650
B1	[mm]	286	307	303	307
B2	[mm]	90	115	117	115
C1	[mm]	510	510	430	430
C2	[mm]	245	260	271	266
C3	[mm]	94	94	94	97
D1	[mm]	400	500	500	500
H4	[mm]	196	253	235	235
HA1	[mm]	90	130	110	110
HA2	[mm]	253	205	230	230
HG		258	258	356	361
VG		380	380	410	445
d2	[mm]	37	34	44	50
d3/4	[mm]	55	60	70	85
g	[mm]	80	80	80	80
h1	[mm]	1553	1857	2258	2628
No. of holes		24	24	28	32
Turns/stroke		82	82	95	105
Weight with EA	[kg]	1195	1536	2682	3921
Volume with EA approx.	[m ³]	1.940	2.360	3.650	4.960

DN 500 PN 16 valve is available without and with gearbox