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ERHARD ECO KNIFE GATE VALVE

The high-quality knife gate made from stainless steel

Thanks to its two-piece body made from rust and acid-proof steel as well as the valve plate manufactured from the same material, the ERHARD ECO knife gate valve is perfectly protected against intrinsic and contact corrosion. The body is pressed dimensionally stable and is, therefore, light and easy to install offering a full discharge opening without passageway constriction through lateral plate guides.

The sliding shells made from ultra-high molecular weight low-pressure polyethylene, glass fibre reinforced polyester resin or polyamide have optimal anti-friction properties as well as high abrasion resistance and the PTFE packing as well as the NBR seal can be easily replaced. A bonnet serves to fasten the switching and control devices as well as, at the same time, to fasten the numerous drive options that are exactly matched to the gate valve and which can also be replaced when installed.

ERHARD ECO knife gate valves are suitable both for clamping in and as end-of-line valve.

Areas of use

Nominal size DN	Pressure rating PN	Hydr. test pressure in bars for		Admissible working pressure in bars at a working temperature
		Body	Seat	
50 - 100	10	15	10	10
125 - 300	6	9	6	6
350	4	6	4	4
400 - 600	2,5	3,75	2,5	2,5

For ERU K1 knife gate valves (DN 50-600) and ERHARD knife gate valve (DN 700-1200) with bodies made of cast iron are in separate leaflets.



Operating instructions

With handwheel:

BA46D050

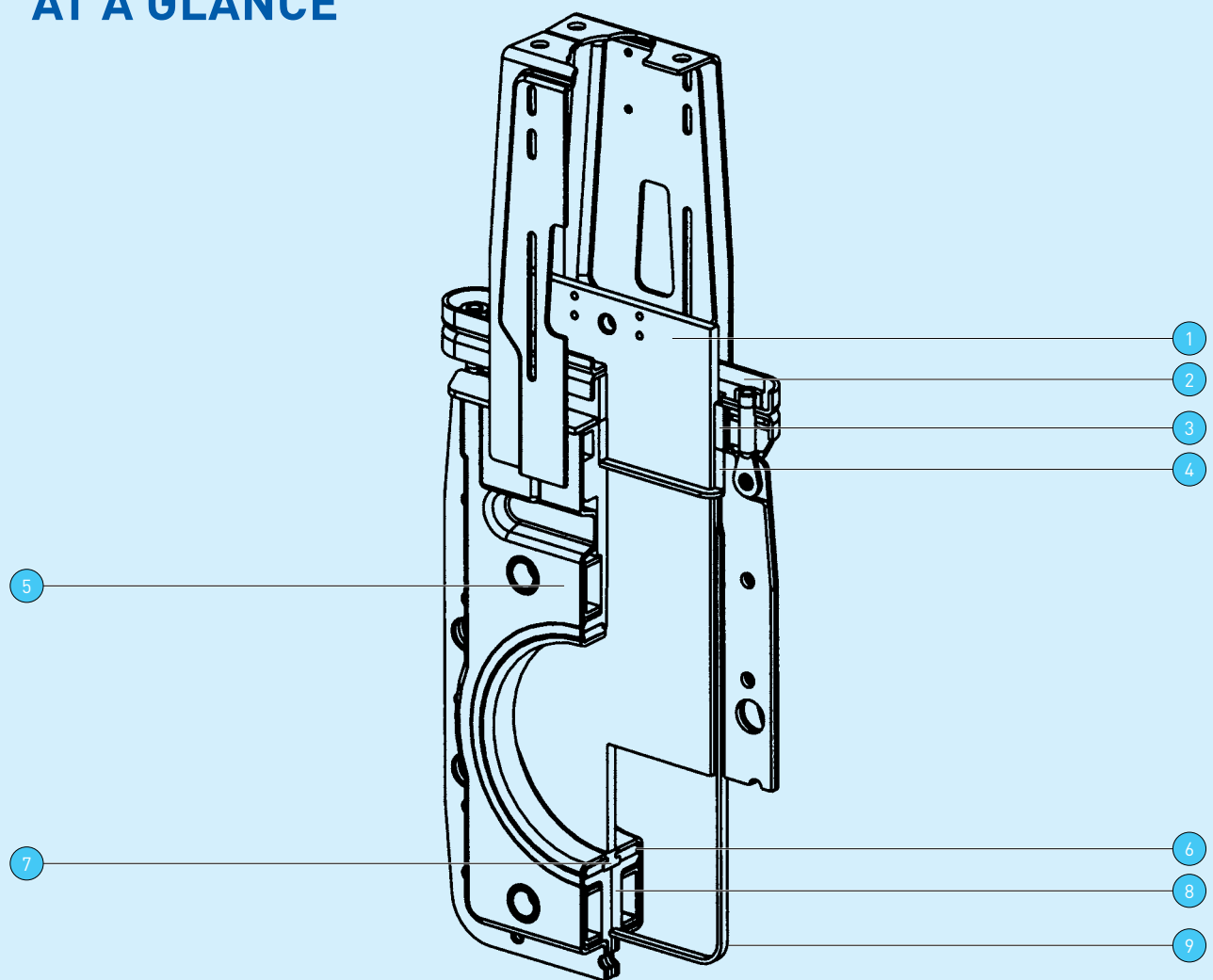
With pneumatic drive:

BA46D051

With electric actuator:

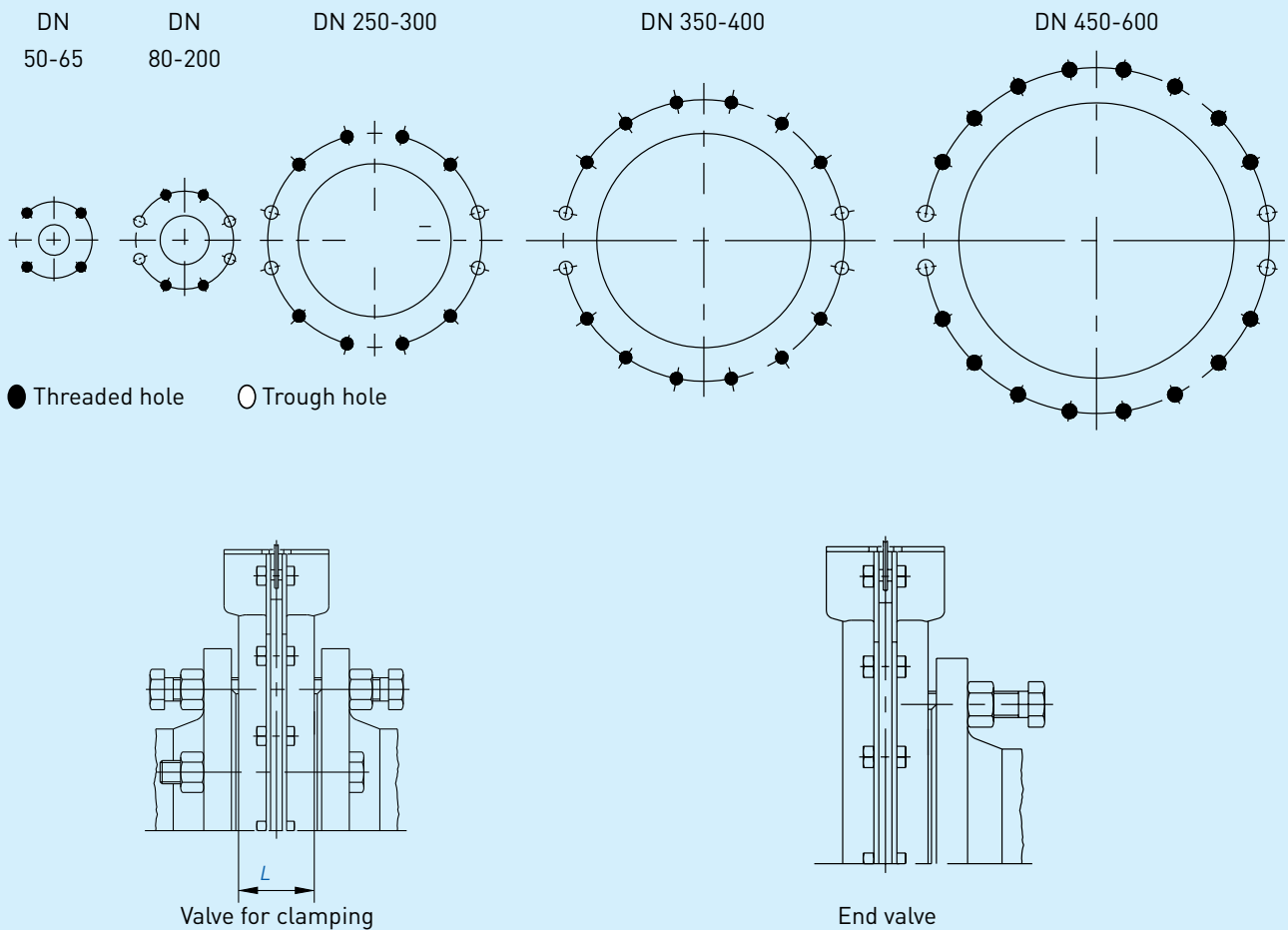
BA46D052

PARTS AND MATERIALS AT A GLANCE



No.	Part	Material
1	Valve	Stainless steel
2	Gland	Stainless steel
3	Press gland	Glass fiber reinforced plastic
4	Sealing	PTFE and NBR
5	Body	Stainless steel
6	NL-ring	NBR
7	Filler	NBR
8	Sliding	Glass fiber reinforced plastic
9	Special sealing	NBR

FLANGE BOLTS NUMBERS FOR INSTALLATION



Recommended flange						Valve for clamping						End valve			
Nominal size DN	Face-to-face dim. L	F flange G flared flange	Weld flange	Bolt circle diameter Ø	Flange Ø	Threaded hole				Through hole		Threaded hole			
						hex screw ISO 4017		hex nut ISO 4034		hex screw ISO 4034		hex screw ISO 4017		hex nut ISO 4034	
						pcs	size	pcs	size	pcs	size	pcs	size	pcs	size
50	40	DIN 2642	DIN 2633	125	165	8	M16x60	8	M16	-	-	4	M16x60	4	M16
65	40			145	185	8	M16x60	8	M16	-	-	4	M16x60	4	M16
80	50			160	200	8	M16x70	12	M16	4	M16x120	4	M16x70	4	M16
100	50			180	220	8	M16x70	12	M16	4	M16x120	4	M16x70	4	M16
125	50			210	250	8	M16x70	12	M16	4	M16x120	4	M16x70	4	M16
150	60			240	285	8	M20x80	12	M20	4	M20x140	4	M20x80	4	M20
200	60		DIN 2632	295	340	8	M20x80	12	M20	4	M20x140	4	M20x80	4	M20
250	70			350	395	16	M20x90	20	M20	4	M20x150	8	M20x90	8	M20
300	70			400	445	16	M20x90	20	M20	4	M20x150	8	M20x90	8	M20
350	70			460	505	24	M20x90	28	M20	4	M20x150	12	M20x90	12	M20
400	90			515	565	24	M24x110	28	M24	4	M24x180	12	M24x110	12	M24
450	92			565	615	32	M24x110	36	M24	4	M24x180	16	M24x110	16	M24
500	92			620	670	32	M24x110	36	M24	4	M24x180	16	M24x120	16	M24
600	110			725	780	32	M24x110	36	M24	4	M27x200	16	M27x130	16	M24

VARIANTS AND DIMENSIONS

With handwheel and non-rising stem¹⁾

DN	PN	L	A	B	D	H1	H2	H3	thread Tr/-LH d	c	turn/ stroke	weight approx. kg
50	10	40	210	77	180	471	386	100	20x4	15	17	9,0
65	10	40	210	77	180	471	386	100	20x4	15	22	9,5
80	10	50	185	92	180	481	396	125	20x4	15	27	10,0
100	10	50	210	92	225	542	457	135	20x4	18	25	12,5
125	6	50	240	92	225	592	507	145	20x4	18	31	15,5
150	6	60	258	92	225	637	552	160	20x4	18	38	19,5
200	6	60	330	162	280	739	654	190	24x5	22	40	38,0
250	6	70	400	162	280	849	764	230	24x5	22	50	51,0
300	6	70	460	172	360	-	864	260	24x5	22	60	67,0
350	4	70	520	194	360	-	1017	290	30x6	26	58	96,0
400	2,5	90	580	236	500	-	1167	325	30x6	26	67	139,0
450	2,5	92	630	170	500	-	1285	315	30x6	28,5	75	261,0
500	2,5	92	680	170	500	-	1345	340	36x6	35	83	311,0
600	2,5	110	780	190	500	-	1575	390	36x6	36,5	100	468,0

1) Handwheel from DN 300 without ball handle

With sprocket and rising stem

DN	PN	L	A	B	D	H1	H2	H3	thread Tr/-LH d	turn/ stroke	weight approx. kg
50	10	40	210	77	275	397	380	100	20x4	12,5	14,0
65	10	40	210	77	275	412	380	100	20x4	16	14,0
80	10	50	185	92	275	437	390	125	20x4	20	14,0
100	10	50	210	92	315	520	450	135	24x5	20	19,0
125	6	50	240	92	315	595	500	145	24x5	25	21,5
150	6	60	258	92	315	665	545	160	24x5	30	26,0
200	6	60	330	162	395	821	653	190	30x6	33	45,0
250	6	70	400	172	395	981	763	230	30x6	41	59,0
300	6	70	460	172	395	1131	863	260	30x6	50	77,0
350	4	70	520	194	465	1350	1010	290	36x6	58	110,0
400	2,5	90	580	190	465	1550	1160	325	36x6	67	149,0

With electric actuator and rising stem

DN	PN	L	A	B	H1	H2	H3	D	thread Tr/- LH d	e1	e2	e3	e4	turn/ stroke	Clos- ing time ¹⁾	weight approx. kg
50	10	40	210	77	608	300	100	125	20x4	62	237	530	280	13	18	30,0
65	10	40	210	77	608	300	100	125	20x4	62	237	530	280	17	23	30,5
80	10	50	185	82	618	310	125	125	20x4	62	237	530	280	20	28	31,0
100	10	50	210	92	678	370	135	125	24x5	62	237	530	280	20	28	34,0
125	6	50	240	92	728	420	145	125	24x5	62	237	530	280	25	34	36,5
150	6	60	258	92	820	465	160	125	24x5	62	237	530	280	30	41	40,5
200	6	60	330	162	923	558	190	160	30x6	62	237	530	280	33	45	60,5
250	6	70	400	172	1033	668	230	160	30x6	62	237	530	280	42	57	75,0
300	6	70	460	172	1233	768	260	160	30x6	62	237	530	280	50	67	93,0
350	4	70	520	194	1375	905	290	200	36x6	65	247	580	355	58	78	119,0
400	2,5	90	580	236	1625	1055	325	200	36x6	65	247	580	355	67	90	159,0
450	2,5	92	630	170	1785	1190	315	200	36x6	65	247	580	355	75	101	280,0
500	2,5	92	680	170	1875	1250	340	315	36x6	90	285	728	390	84	112	364,0
600	2,5	110	780	190	2205	1480	390	315	44x7	90	285	728	390	87	116	521,0

1) Closing time actuator with 45 turns/min.

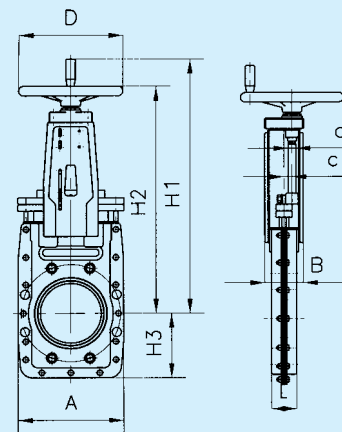
Electric actuator type DN50-DN80: SA07.2-A (Max. 30 NM) F10

Electric actuator type DN100-DN150: SA07.6-A (Max. 60 NM) F10

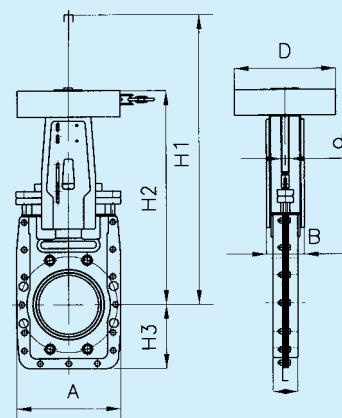
Electric actuator type DN200-DN450: SA10.2-A (Max. 120 NM) F10

Electric actuator type DN500-DN600: SA14.2-A (Max. 250 NM) F14

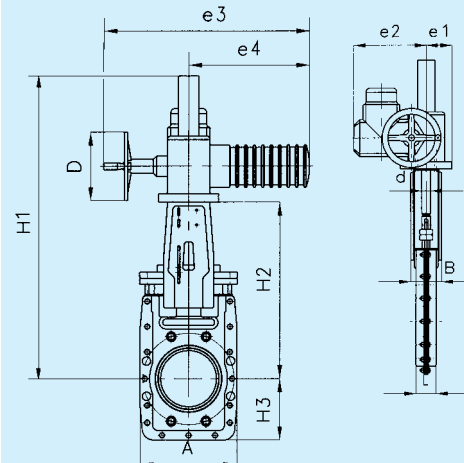
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No: 4680 6651



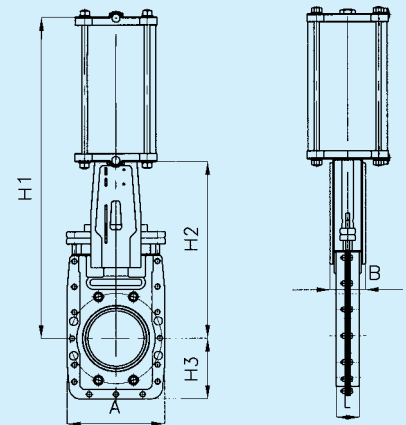
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With pneumatic drive

DN	PN	L	A	B	H1	H2	H3	D	Cyl. Ø	Connection	Pilot press. bar	Weight approx. kg
50	10	40	210	77	479	300	100	120	100	R 1/8"	6	11,0
65	10	40	210	77	494	300	100	120	100	R 1/8"	6	11,5
80	10	50	185	82	519	310	125	120	100	R 1/8"	6	12,0
100	10	50	210	92	610	370	135	140	125	R 1/4"	6	17,5
125	6	50	240	92	685	420	145	140	125	R 1/4"	6	20,0
150	6	60	258	92	755	465	160	160	145	R 1/4"	6	24,5
200	6	60	330	162	909	558	190	190	175	R 1/2"	6	45,5
250	6	70	400	172	1069	668	230	190	175	R 1/2"	6	62,0
300	6	70	460	172	1219	768	260	220	200	R 1/2"	6	83,0
350	4	70	520	194	1419	905	290	250	230	R 1/2"	6	118,0
400	2,5	90	580	236	1663	1055	325	250	230	R 1/2"	6	162,5
450	2,5	92	630	170	1764	1190	315	250	230	R 1/2"	6	293,0
500	2,5	92	680	170	2028	1250	340	320	300	R 1/2"	6	351,0
600	2,5	110	780	190	2358	1480	390	320	300	R 1/2"	6	523,0

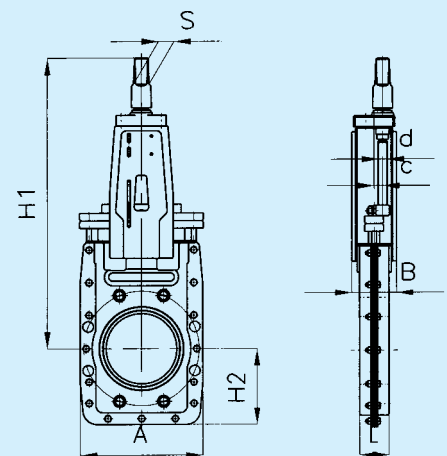
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With square cap and non-rising stem

DN	PN	L	A	B	H1	H2	s	thread Tr/-LH d	c	turn/stroke	Weight approx. kg
50	10	40	210	77	386	100	32	20x4	15	17	9,0
65	10	40	210	77	386	100	32	20x4	15	22	9,5
80	10	50	185	82	396	125	32	20x4	15	27	10,0
100	10	50	210	92	457	135	32	20x4	18	25	12,5
125	6	50	240	92	507	145	32	20x4	18	31	15,5
150	6	60	258	92	552	160	32	20x4	18	38	19,5
200	6	60	330	162	654	190	32	24x5	22	40	38,0
250	6	70	400	172	764	230	32	24x5	22	50	51,0
300	6	70	460	172	864	260	32	24x5	22	60	67,0
350	4	70	520	194	1017	290	32	30x6	26	58	96,0
400	2,5	90	580	236	1167	325	32	30x6	26	67	139,0
450	2,5	92	630	170	1285	315	32	30x6	28,5	75	261,0
500	2,5	92	680	170	1345	340	32	36x6	35	83	311,0
600	2,5	110	780	190	1575	390	32	36x6	36,5	100	468,0

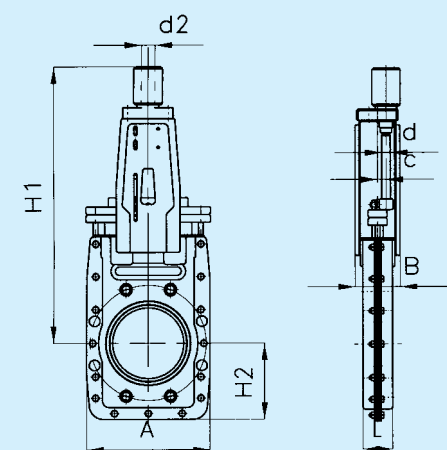
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With socket and non-rising stem

DN	PN	L	A	B	H1	H2	thread Tr/-LH d	d2	c	turn/stroke	Weight approx. kg
50	10	40	210	77	405	100	20x4	20	15	17	9,0
65	10	40	210	77	405	100	20x4	20	15	22	9,5
80	10	50	185	82	415	125	20x4	20	15	27	10,0
100	10	50	210	92	476	135	20x4	22	18	25	12,5
125	6	50	240	92	526	145	20x4	22	18	31	15,5
150	6	60	258	92	571	160	20x4	22	18	38	19,5
200	6	60	330	162	674	190	24x5	25	22	40	38,0
250	6	70	400	172	784	230	24x5	25	22	50	51,0
300	6	70	460	172	889	260	24x5	30	22	60	67,0
350	4	70	520	194	1012	290	30x6	30	26	58	96,0
400	2,5	90	580	236	1172	325	30x6	30	26	67	139,0
450	2,5	92	630	170	1317	315	30x6	30	28,5	75	261,0
500	2,5	92	680	170	1396	340	36x6	35	35	83	311,0
600	2,5	110	780	190	1690	390	36x6	35	36,5	100	468,0

No: 4685 6600





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