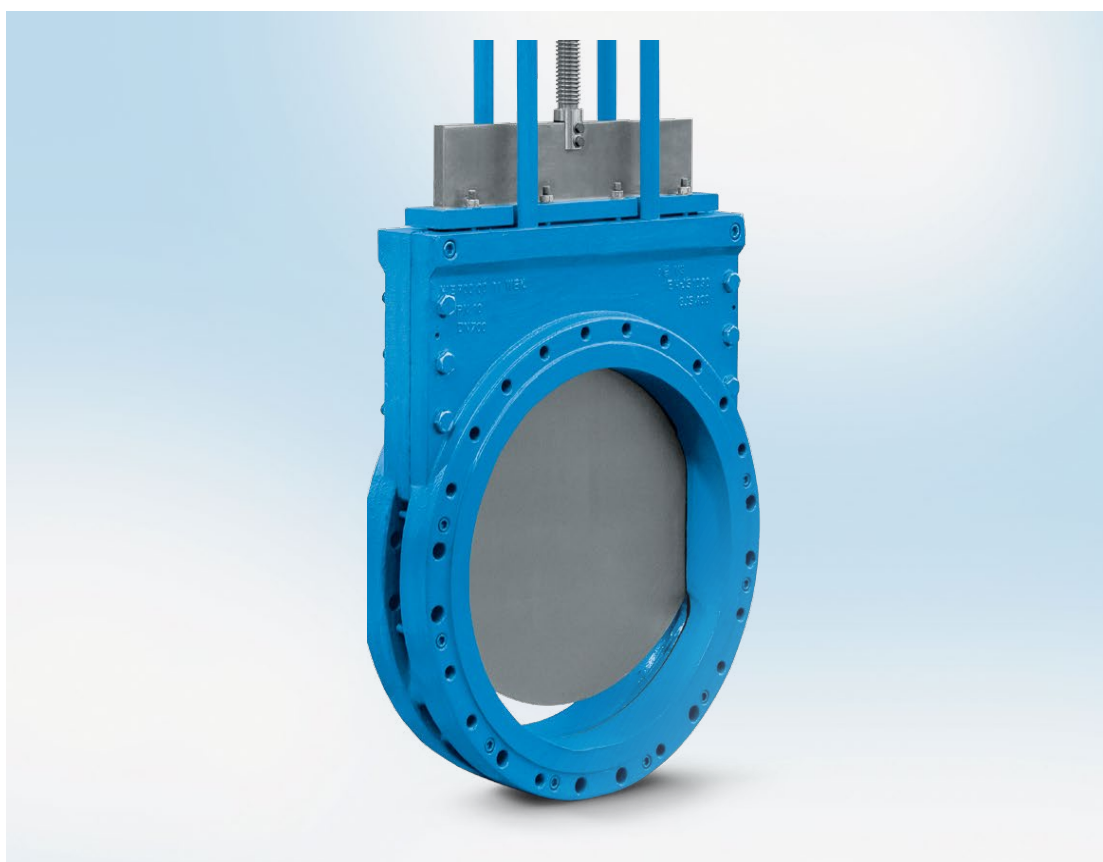


Шибберные задвижки серии K1, K3



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ERHARD KNIFE GATE VALVE

The robust knife gate valve made of cast iron

The ERHARD knife gate valve is a robust knife gate valve with a two-part body. It is suitable for liquids with a solids fraction of up to 5 %. Its wide range of nominal sizes from DN 700 to DN 1200 makes it suitable for numerous applications in the fields of waste water technology and in the chemical and paper industries, as well as for process water use.

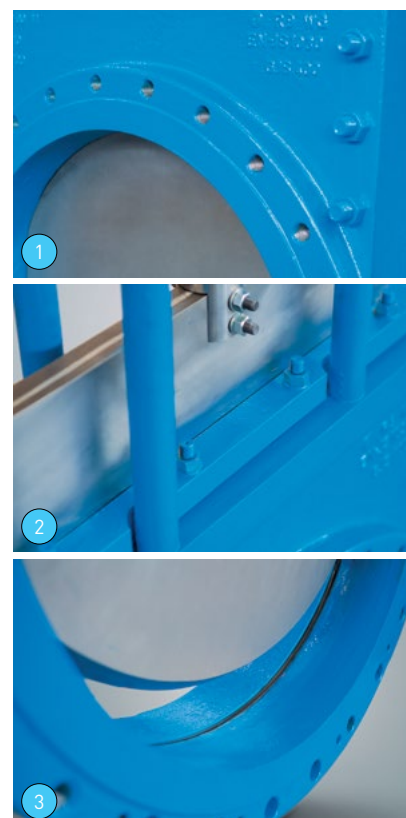
Available in face-to-face dimensions K1 and K3, the ERHARD knife gate valve is designed as a valve which seals on both sides with a rising stem and which can be used both as an intermediate flange valve and as an end valve. The body connection is made via a flange [1] according to DIN EN 1092-2, PN 10, partially fitted with blind threaded holes.

The two-part body made of high-quality grey cast iron EN-JL1040 is extremely robust, and its construction with sturdy steel columns also contributes to this. The plane-parallel valve plate that is machined on all sides is made of 1.4301 stainless steel, and secure external sealing is provided by highly effective PTFE packing strands with an O-ring as a transverse seal and with a profile ring between the mounting plates. The maintenance-friendly transverse seal [2] can be easily and safely adjusted during service. The valve plate has a radial cutting edge and it provides a completely free passage across the entire cross-section of the pipe. It ends at the pipe bottom [3] so as to ensure an operationally reliable shut-off at all times. Integrated flushing corners in the body ensure that the seat is automatically flushed clean when the valve is closed.

For long-lasting corrosion protection, the ERHARD knife gate valve comes with a high-quality fusion bonded epoxy coating with a coat thickness of 250 µm which guarantees great durability. There are a range of easy-to-install actuator options available for the ERHARD knife gate valve, for example a combination of gearbox and hand wheel or an electric drive.

Overview of features

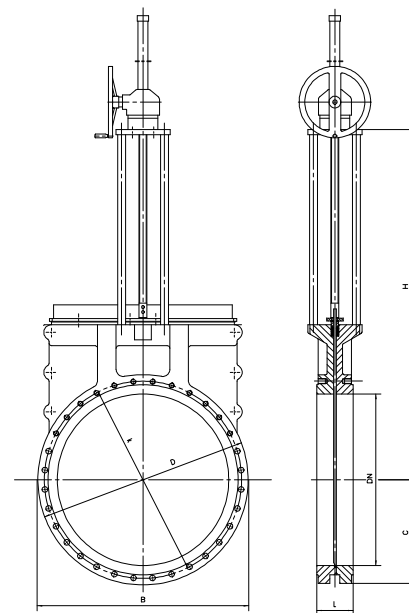
Sizes	DN 700 to DN 1200
Pressure rating	PN 2 to PN 10, depending on DN
Material	Body: cast iron
	Valve plate: stainless steel 1.4301
	Stem: stainless steel 1.4104.05
	Seal: Perbunan (NBR)
	Columns: coated steel
	Screw: steel
Coating	Internal and external blue fusion bonded epoxy (FBE)
Drive	Gearbox and handwheel, additional drive options such as electric drive are also available



ERHARD KNIFE GATE VALVE - DIMENSIONS

Dimensions

Size	Pressure rating PN	Face-to-face dim.	L	B	C	D	H	K
700	4	K1	165	895	450	895	1485	840
700	10	K3	229	895	450	895	1485	840
800	4	K1	190	1015	510	1015	1650	950
800	10	K3	241	1015	510	1015	1650	950
900	2,5	K1	203	1115	560	1115	1840	1050
900	6	K3	241	1115	560	1115	1840	1050
1000	2,5	K1	216	1230	615	1230	2000	1160
1000	6	K3	300	1230	615	1230	2000	1160
1200	2,5	K1	254	1480	725	1480	2390	1380
1200	4	K3	350	1480	725	1480	2390	1380



DESIGN, APPLICATION AND MATERIALS

Standard version

- Full-flange design
- Installation between flanges and at the end of the pipe possible
- two-piece housing
- In the center of the body seal of NBR
- Bothside flanges according PN 10
- Threaded blind holes in the upper part of the flange, holes in the rest of the flange
- Face-to-face dimensions according K1 or K3
- Sealed in both flow directions
- Full bore
- Plate with cutting edge at the radius
- With flushing-corners at the side-guide
- Transverse seal with packing string and o-ring
- adjustable and changeable form outside when installed
- with rising stem
- stable construction with columns made of steel
- for electric-actuator, or gearbox with handwheel
- Epoxy coated, 250 µm, blue

Areas of use

- Sewage
- Chemical industrie
- paper industrie
- process water

Materials for standard version

- **Body:** EN-JL1040 (GG-25)
- **Plate:** austenitischer CrNi-Stahl (1.4301)
- **Stem:** martens. CrMo-Stahl (1.4104.05)
- **Seal:** Perbunan (NBR)
- **Columns:** Stahl, beschichtet
- **Screws:** Stahl, beschichtet

Operating instruction

BA46 E 409

RANGE

Range WK face-to-face dimension DIN3202, K1 for PN 2,5 up to PN 4, EN 558 Basic series 20

Nominal diameter	Face-to-face dimension mm	Nominal pressure	Test pressure body	Weight kg	Max. operating pressure in bar at operating temperature < 60°C
700	165	4	6	600	4
800	190	4	6	750	4
900	203	2,5	4	900	2,5
1000	216	2,5	4	1200	2,5
1200	254	2,5	4	1600	2,5

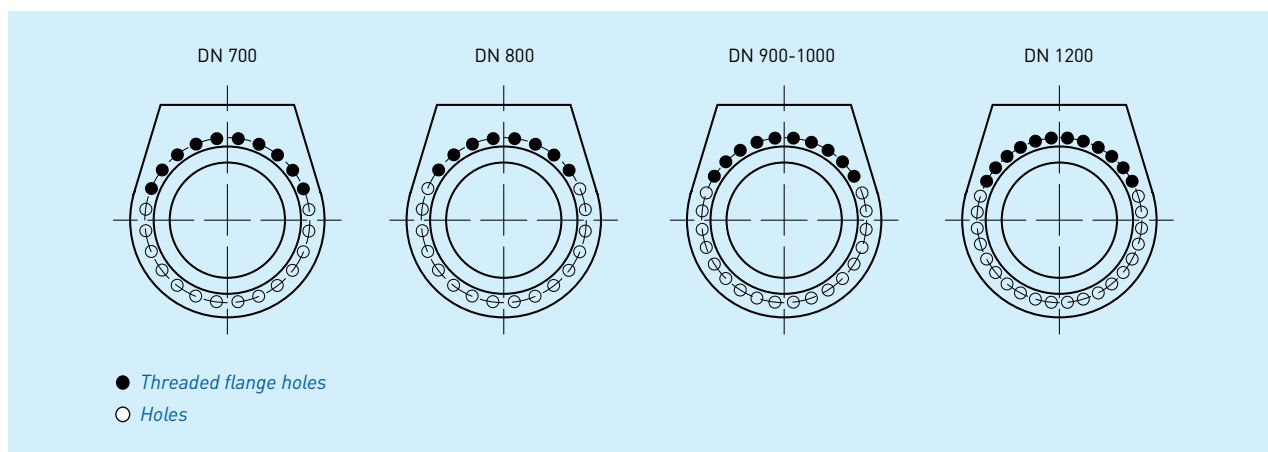
Range WK face-to-face dimension DIN3202, K3 for PN 4 up to PN 10, EN 558 Basic series 20

Nominal diameter	Face-to-face dimension mm	Nominal pressure	Test pressure body	Weight kg	Max. operating pressure in bar at operating temperature < 60°C
700	229	10	15	750	10
800	241	10	15	900	10
900	241	6	9	1100	6
1000	300	6	9	1500	6
1200	350	4	6	1950	4

Special designs for example other flange, other pressure rate, other materials, non-rising stem, other drives etc. on request

Flange connection

Nominal diameter	Threaded flange hole	Holes	d	Depth of the thread at K1-face-to-face dimension	Depth of the thread at K3-face-to-face dimension
700	10	14	M27	33	35
800	8	16	M30	40	38
900	10	18	M30	40	40
1000	10	18	M33	45	50
1200	12	20	M36	45	55



DRIVES - ELECTRIC ACTUATOR

AUMA design K1 and K3

Nominal diameter	Stroke mm	Operating pressure	AUMA actuator	Flange dimension and output
700	700	4 to 6	SA14.6	F14-A TR50x8-LH
700	700	7 to 10	SA16.2	F16-A TR60x9-LH
800	800	4 to 6	SA14.6	F14-A TR50x8-LH
800	800	7 to 10	SA16.2	F16-A TR60x9-LH
900	900	2,5 to 6	SA16.2	F16-A TR60x9-LH
1000	1000	2,5 to 6	SA16.2	F16-A TR60x9-LH
1200	1200	2,5 to 4	SA16.2	F16-A TR70x10-LH

Torque

Nominal diameter		Close Nm	Open Nm	Turn/stroke	Closing time in sec.		
					32 1/min	45 1/min*	63 1/min
700	4 to 6	280	310	88	165	118	84
700	7 to 10	560	620	78	145	104	74
800	4 to 6	370	400	100	188	134	96
800	7 to 10	750	875	89	167	118	85
900	2,5 to 6	480	520	100	188	134	96
1000	2,5 to 6	660	700	111	209	148	106
1200	2,5 to 4	700	760	120	225	160	115

* 45 1/min bevorzugt

Face-to-face-dimension

Nominal diameter	Nominal pressure		face-to-face L		B	D	H1	H2	k
	K1	K3	K1	K3					
700	4	10	165	229	895	895	1485	2363	840
800	4	10	190	241	1015	1015	1650	2628	950
900	2,5	6	203	241	1115	1115	1840	2973	1050
1000	2,5	6	216	300	1230	1230	2000	3243	1160
1200	2,5	4	254	350	1480	1480	2390	3823	1380

DRIVES – BEVEL GEAR

Auma with handwheel, for design K1 and K3

Nominal Diameter	Stroke in mm	Nominal pressure in bar	AUMA GK Type	Flange dimension and drive A	Gear reduction i	Input shaft mm	Handwheel- ϕ in mm	turn/stroke
700	700	4 to 6	GK 14.6	F14-A TR50x8-LH	2,8:1	30	315	247
700	700	7 to 10	GK 16.2	F16-A TR60x9-LH	4:1	30	400	312
800	800	4 to 6	GK 14.6	F14-A TR50x8-LH	2,8:1	30	315	280
800	800	7 to 10	GK 16.2	F16-A TR60x9-LH	4:1	30	400	256
900	900	2,5 to 6	GK 14.6	F14-A TR60x9-LH	4:1	20	315	400
1000	1000	2,5 to 6	GK 16.2	F16-A TR60x9-LH	4:1	30	400	444
1200	1200	2,5 to 4	GK 16.2	F16-A TR70x10-LH	5,6:1	30	400	672

Face-to-face dimension K1

Nominal Diameter	Nominal pressure	L	B	C	D	H	k
700	4	165	895	450	895	1485	840
800	4	190	1015	510	1015	1650	950
900	3	203	1115	560	1115	1840	1050
1000	2	216	1230	615	1230	2000	1160
1200	2	254	1480	725	1480	2390	1380

Face-to-face dimension K3

Nominal Diameter	Nominal pressure	L	B	D	H1	H2	k
700	10	229	895	895	1485	2363	840
800	10	241	1015	1015	1650	2628	950
900	6	241	1115	1115	1840	2973	1050
1000	6	300	1230	1230	2000	3243	1160
1200	4	350	1480	1480	2390	3823	1380

DRIVES - SPUR GEAR

Auma with handwheel, for design K1 and K3

Nominal Diameter	Stroke in mm	Nominal pressure in bar	AUMA GK Type	Flange dimension and drive A	Gear reduction i	Input shaft mm	Handwheel- ϕ in mm	turn/stroke
700	700	4 to 6	GST 14.5	F14-A TR50x8-LH	2,8:1	30	315	247
700	700	7 to 10	GST 16.1	F16-A TR60x9-LH	4:1	30	400	312
800	800	4 to 6	GST 14.5	F14-A TR50x8-LH	2,8:1	30	315	280
800	800	7 to 10	GST 16.1	F16-A TR60x9-LH	4:1	30	400	356
900	900	2,5 to 6	GST 14.5	F14-A TR60x9-LH	4:1	20	315	400
1000	1000	2,5 to 6	GST 16.1	F16-A TR60x9-LH	4:1	30	400	444
1200	1200	2,5 to 4	GST 16.1	F16-A TR70x10-LH	5,6:1	30	400	672

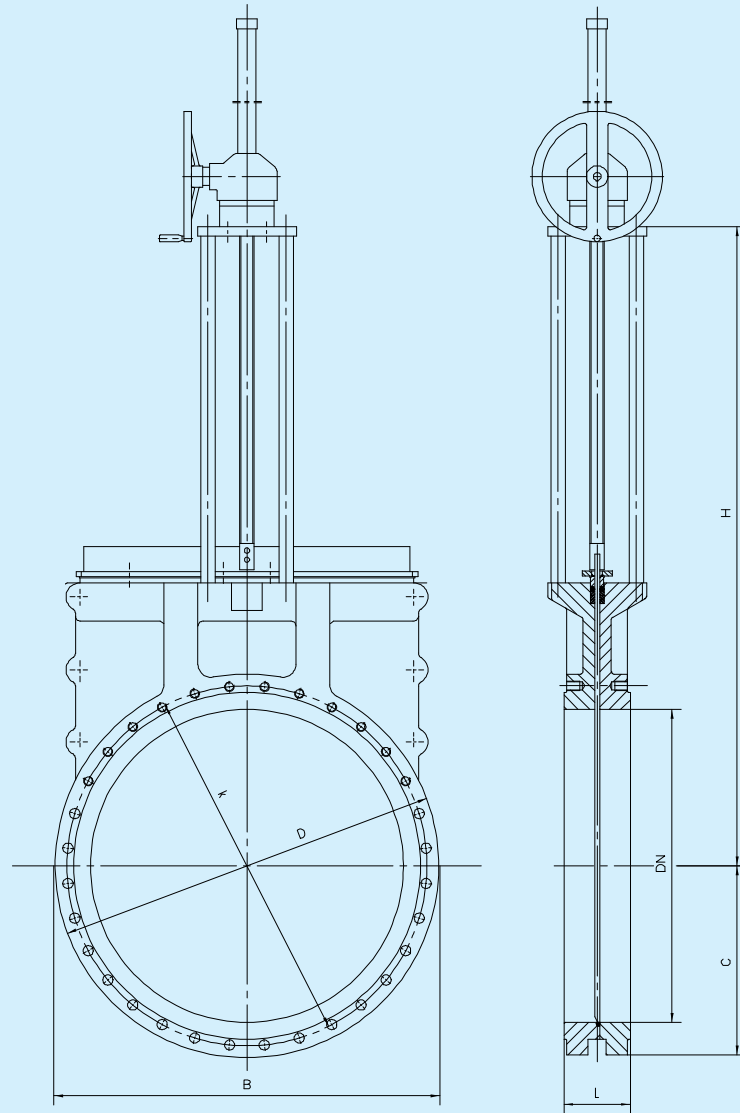
Face-to-face dimension K1

Nominal Diameter	Nominal pressure	L	B	C	D	H	k
700	4	165	895	450	895	1485	840
800	4	190	1015	510	1015	1650	950
900	3	203	1115	560	1115	1840	1050
1000	2	216	1230	615	1230	2000	1160
1200	2	254	1480	725	1480	2390	1380

Face-to-face dimension K3

Nominal Diameter	Nominal pressure	L	B	D	H1	H2	k
700	10	229	895	895	1485	2363	840
800	10	241	1015	1015	1650	2628	950
900	6	241	1115	1115	1840	2973	1050
1000	6	300	1230	1230	2000	3243	1160
1200	4	350	1480	1480	2390	3823	1380

DRAWING





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