

KNIFE GATE VALVE WB 11



The knife gate valve type WB is designed, manufactured, inspected and tested according to the European Pressure Equipment Directive (PED 97/23/EC), category II module A1 and therefore CE marked.

FEATURES

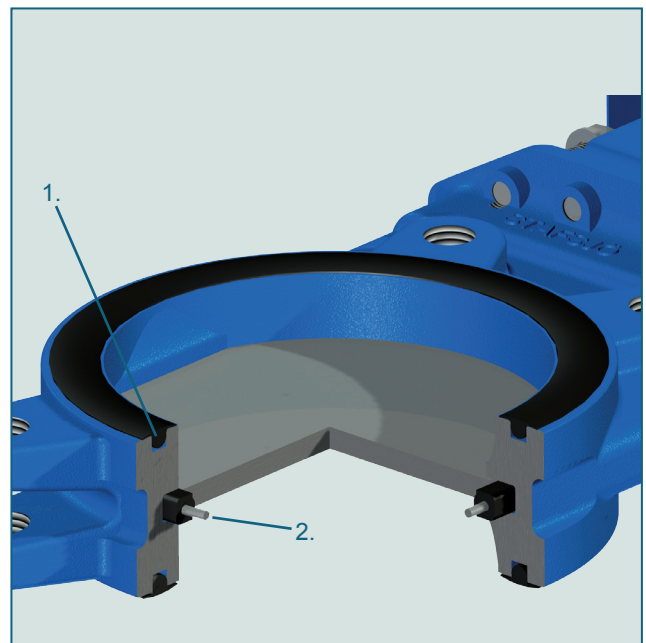
- Box packing Twin Pack™ gives high operation reliability
- Bi-directional sealing
- Casted one piece body
- Integrated flangesealing
- Piggable design

GENERAL APPLICATIONS

- Water and waste water
- Biogas plant
- Sugar industry
- Power plants and steel works
- Chemical industry
- Food and beverage industry

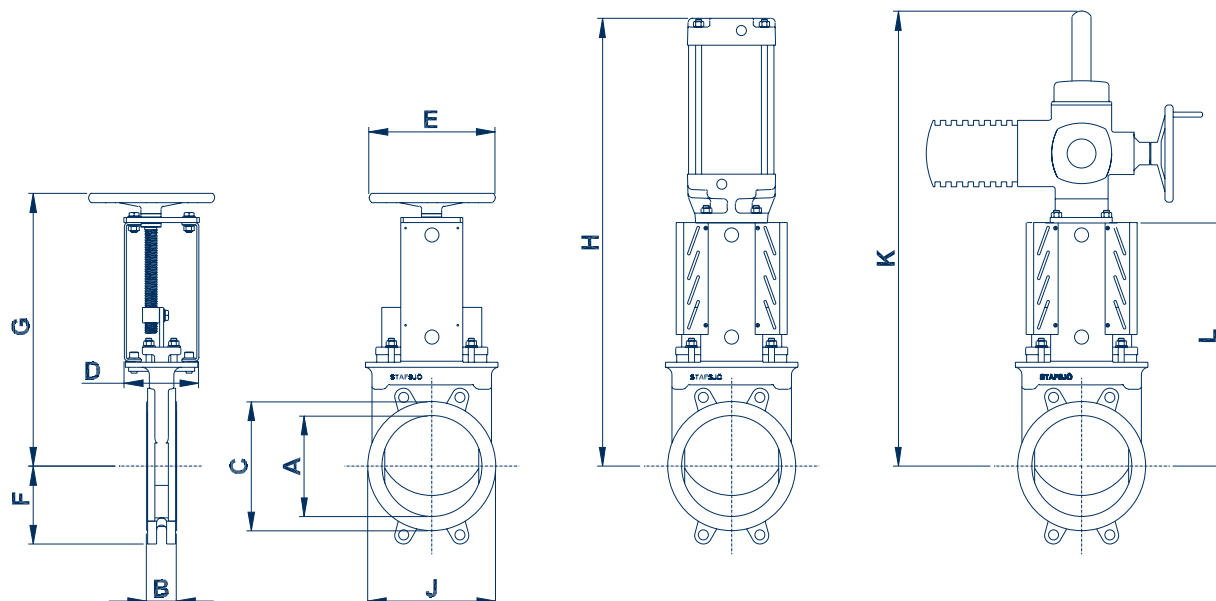
TECHNICAL DATA

Nominal diameter:	2 inch - 24 inch
Face-to-face:	EN 558-1 Series 20 (≥ 14 inch company standard)
Flange drilling:	EN 1092 PN 10 ASME Class 150
Marking:	EN 19
Tightness check:	EN 12266 (Leakage rate A) ISO 5208 Class A
Temperature range:	max. 248°F
Actuators:	Hand wheel, ratchet wrench, chain wheel, bevel gear, pneumatic cylinder, electric motor, hydraulic cylinder
Operating pressure:	2 inch - 12 inch: 145 psi 14 inch - 16 inch: 87 psi 20 inch - 24 inch: 58 psi



1. The integrated body seal ensures tightness when mounted between flanges.
2. The pressure stressed sealing principle ensures permanent tightness.

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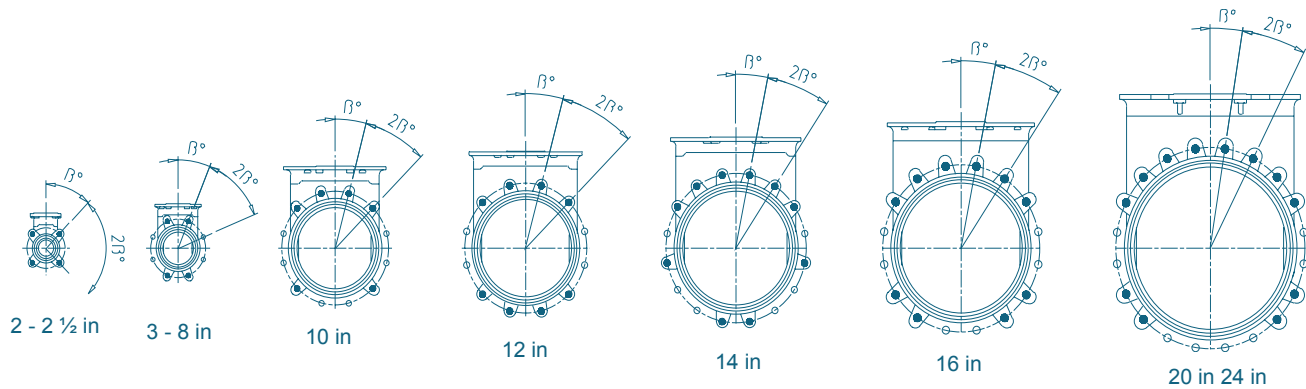


Knife gate valve type WB

DN [mm]	Size [in]	Dimensions [in]											Air supply	Weight with hand wheel [lb]
		A	B	C	D	E	F	G	H	J	K	L		
50	2	1.97	1.69	3.54	3.39	7.95	2.32	11.77	17.36	3.54	22.64	8.94	1/4"	12.10
65	2 1/2	2.56	1.81	4.13	3.39	7.95	2.60	12.76	18.94	4.13	23.62	9.92	1/4"	14.30
80	3	3.15	1.81	4.72	3.39	7.95	3.46	13.62	20.43	4.72	24.53	10.83	1/4"	16.50
100	4	3.94	2.05	5.67	3.39	7.95	3.98	15.00	22.60	5.67	25.91	12.20	1/4"	20.90
125	5	4.92	2.20	6.65	3.39	9.84	4.41	16.57	27.91	6.65	27.48	13.78	1/4"	26.50
150	6	5.91	2.20	7.56	3.39	9.84	5.12	18.27	30.55	7.56	29.13	15.43	1/4"	30.90
200	8	7.87	2.36	10.08	5.94	12.48	6.06	22.09	34.96	10.08	32.20	19.02	1/2"	59.50
250	10	9.84	2.68	12.09	5.94	12.48	6.02	25.87	40.71	12.09	35.98	22.80	1/2"	83.80
300	12	11.81	3.07	13.94	5.94	12.48	8.39	29.65	46.46	13.94	41.69	26.57	1/2"	116.80
350	14	13.78	3.15	16.02	7.36	15.75	9.65	34.65	53.82	16.02	48.35	30.83	1/2"	178.60
400	16	15.75	3.15	18.11	7.36	15.75	9.69	38.46	59.61	18.11	54.13	34.65	1/2"	233.70
500	20	19.69	3.54	22.28	10.31	20.47	11.18	47.80	72.24	10.47	67.17	43.31	1/2"	407.90
600	24	23.62	3.94	26.85	10.31	20.47	13.43	55.87	90.98	26.85	79.17	51.38	1"	606.30

Subject to change without notice

FLANGE DRILLINGS WB 11



● = Tapped holes ○ = Throughgoing holes

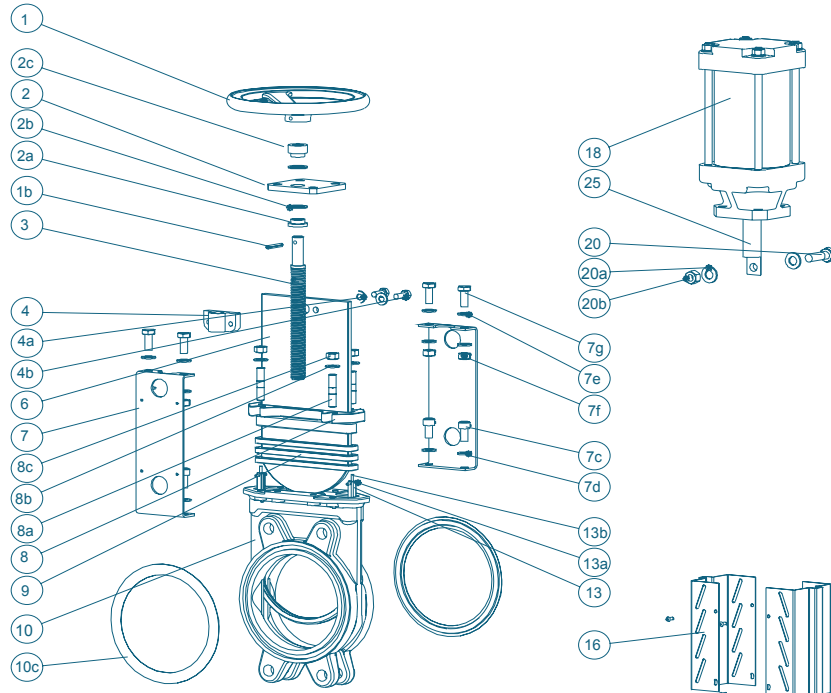
Size [in]	2	2 1/2	3	4	5	6	8	10	12	14	16	20	24
Outside flange diameter [in]	6.50	7.28	7.87	8.66	9.84	11.22	13.39	15.55	17.52	19.88	22.24	26.38	30.71
Bolt circle diameter [in]	4.92	5.71	6.30	7.09	8.27	9.45	11.61	13.78	15.75	18.11	20.28	24.41	28.54
Face-to-face length [in]	1.69	1.81	1.81	2.05	2.20	2.20	2.36	2.68	3.07	3.15	3.15	3.54	3.94
Number of throughgoing holes [○]	-	-	4	4	4	4	4	6	4	6	6	8	8
Number of tapped holes [●]	4	4	4	4	4	4	4	6	8	10	10	12	12
Bolt size	M16	M16	M16	M16	M16	M20	M20	M20	M20	M20	M24	M24	M27
β°	45	45	22,5	22,5	22,5	22,5	22,5	15	15	11,25	11,25	9	9
Screw lengths *	0.57	0.65	0.41	0.49	0.49	0.57	0.65	0.73	0.73	0.73	0.82	0.98	0.98

* Add the values in the table with the thickness of the pipe flanges, the washers and the estimated thickness of the gasket.

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MATERIAL SPEZIFICATION AND PARTS LIST



Pt.	Description	Material	Material-No.	Pt.	Description	Material	Material-No.
1	Hand wheel			8	Gland		
	Cast Iron	EN-JL-1040, epoxy coated			Nodular Cast Iron	EN-JS-1050, epoxy coated	
1b	Yoke			8a	Stud bolt		
	Stainless Steel	DIN 1481			Stainless Steel	A2	
2	Traverse			8b	Washer		
	Stainless Steel	X5CrNi18 M 10	1.4301		Stainless Steel	A2	
2a	Bearing			8c	Nut		
	Brass	CuZn39Pb3			Stainless Steel	A2	
2b	Slide washer			9	Gland packing *		
	POM				Twin Pack™	Kavelar/PTFE	
2c	Bearing			10	Body		
	Brass	CuZn39Pb3			Nodular iron	EN-JS 1082	
3	Stem				Grey cast Iron (< 12 in)	EN-JL-1040	
	Stainless Steel	X6Cr17	1.4016	10c	Flange sealing *		
4	Stem nut				NBR	Acrylonitrile-butadiene-rubber	
	Brass	CuZn39Pb3		13	Sealing profile *		
4a	Washer				NBR	Acrylonitrile-butadiene-rubber	
	Stainless Steel	A2			EPDM	Ethylen-propylen-rubber	
4b	Screw			13a	Steel wire, short		
	Stainless Steel	A2			Stainless Steel		
6	Gate			13b	Steel wire, long		
	Stainless Steel	X2CrNiMo17-12-2	1.4404 (2 in - 12 in)		Stainless Steel		
	Stainless Steel	X5CrNi10 M 10	1.4301 (14 in - 24 in)	16	Gate guard (not for HW)		
7	Beam				Steel, epoxy coated		
	Steel, epoxy coated			18	Cylinder		
7c	Screw				Aluminium	s. datasheet	
	Stainless Steel	A2		20	Screw		
7d/e	Washer				Stainless Steel	A2	
	Stainless Steel	A2		20a	Washer		
7f	Nut				Stainless Steel	A2	
	Stainless Steel	A2		20b	Nut		
7g	Screw				Stainless Steel	A2	
	Stainless Steel	A2		25	Piston rod		
					Stainless Steel	A2	

* Recommended spare parts

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