One-Piece Body Knife Gate Valve

The one-piece body knife gate valve is a versatile valve specifically engineered for general industrial service. It is widely used in applications such as paper making, chemical processing, and sewage treatment, where reliable shut-off and media handling are critical.

• Design Characteristics:

- Rising | Non-Rising
- Design and Manufacturing Standard: MSS SP-81
- Flange Connection Standard: EN 1092-2 PN10/16
- Test & Inspection Standard: EN 12266
- Face-to-Face Dimension Standard: MFG
- Coating Standard: EN 14901, FBE coating with thickness no less than 250μm
- Main Materials:
  Body: GGG40/50 Knife Gate: SS304, SS316L, SS2205, SS2507
- Size Range and Design Pressure
- Uni-directional Seal, Sizes from DN50 to DN800
  DN50-DN600 10 bar
  DN700 1.5 bar
  DN800 4 bar (*Note: with SS304 Knife Gate)
- Bi-directional Seal, Sizes from DN50 to DN1400
  DN50-DN500 10 bar
  DN600 7 bar
  DN700-DN900 4 bar
  DN1000-DN1400 2 bar (*Note: with SS304 Knife Gate)



Oversized dimensions and pressure ratings provided on request

- Seal Type

Uni-directional



SOFT
EPDM/NBR/FKM/NR

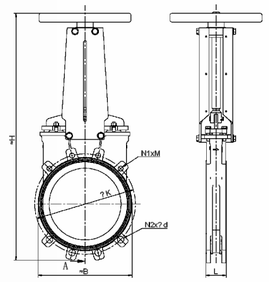
Bi-directional





METAL	SOFT	
BODY/BRASS	PTFE	EPDM/NBR/FKM/NR

Unit: mm



DN	PN	≈H	≈B	L	øK	N1xM	N2xøQ
DN50	10	327	121	40±1.5	ø125	2xM16	2xø19
DN65	10	359	138	40±1.5	ø145	2xM16	2xø19
DN80	10	426	141	50±1.5	ø160	2xM16	2xø19
DN100	10	463	162	50±1.5	ø180	2xM16	2xø19
DN125	10	523	191	50±1.5	ø210	2xM16	2xø19
DN150	10	595	219	60±1.5	ø240	2xM20	2xø23
DN200	10	725	270	60±1.5	ø295	2xM20	2xø23
DN250	10	874	326	70±1.5	ø350	4xM20	4xø23
DN300	10	1022	374	70±3	ø400	4xM20	4xø23
DN350	10	1077	443	96±3	ø460	6xM20	4xø23
DN400	10	1730	495	100±3	ø515	6xM24	4xø28
DN450	10	1898	571	106±3	ø565	8xM24	6xø28
DN500	10	2109	623	110±3	ø620	8xM24	6xø28
DN600	10	2455	736	110±3	ø725	8xM27	6xø31
DN700	10	2885	840	114±3	ø840	14xM27	-
DN800	10	3275	950	117±3	ø950	14xM30	-
DN900	10	3685	1060	117±3	ø1050	16xM30	-
DN1000	10	4020	1170	150±3	ø1160	16xM33	-
DN1200	10	4800	1462	150±3	ø1380	12xM36	20xø41
DN1400	10	5510	1675	154±3	ø1590	14xM39	22xø44

Uni- directional Bi-directional

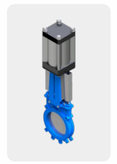
- Operation Type



Handwheel



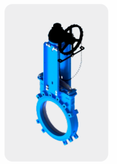
Gear Operated



Pneumatic Actuated



Motorized Drive



Chain Gear Drive

Two-Piece Body Knife Gate Valve

The ductile iron body, featuring a two-piece bolted construction, offers superior strength. Its wafer-style design simplifies installation between flanges. This valve is widely used in applications such as paper making, chemical processing, and sewage treatment, where reliable shut-off and media handling are critical.

• Design Characteristics:

- Rising | Non-Rising
- Design & Manufacturing Standard: MSS SP-81
- Flange Connection Standard: EN 1092-2 PN10
- Test & Inspection Standard: EN 12266
- Face-to-Face Dimension Standard: EN 558 Series 20
- Coating Standard: EN 14901, FBE coating with thickness no less than 250μm
- Main Materials:
  Body: GGG40/50 Knife Gate: SS304, SS316L, SS2205, SS2507
- Size Range and Design Pressure, Sizes from DN50 to DN1400

DN50-DN300	10 bar
DN400	8 bar
DN450-DN800	6 bar
DN900-DN1200	4 bar
DN1400	3bar (*Note: with SS304 Knife Gate)



Oversized dimensions and pressure ratings provided on request

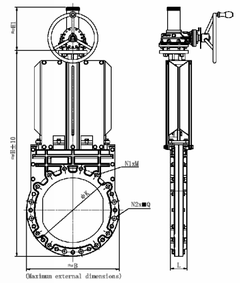
- Seal Type
  Bi-directional Seal





SOFT
EPDM/NBR/FKM/NR

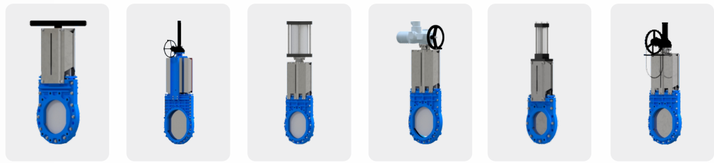
Unit: mm



DN-PN	H	L	B	øK	N1xM/T	N2xøQ	α°	øC
DN50-10	357	43±2	165	ø125	4xM16	-	45°	ø180
DN65-10	380	46±2	185	ø145	4xM16	-	45°	ø180
DN80-10	429	46±2	200	ø160	4xM16	4xø19	22.5°	ø200
DN100-10	479	52±2	220	ø180	4xM16	4xø19	22.5°	ø220
DN125-10	538	56±2	250	ø210	4xM16	4xø19	22.5°	ø220
DN150-10	611	56±2	285	ø240	4xM20	4xø23	22.5°	ø250
DN200-10	734	60±2	340	ø295	4xM20	4xø23	22.5°	ø280
DN250-10	897	68±2	395	ø350	8xM20	4xø23	15°	ø320
DN300-10	1020	78±3	445	ø400	8xM20	4xø23	15°	ø400
DN350-10	1134	78±3	505	ø460	10xM20	6xø23	11.25°	ø400

DN-PN	H	H1	L	B	øK	N1xM	N2xøQ	α
DN400-10	1273	280	102±3	565	ø515	10xM24	6xø28	11.25
DN450-10	1390	280	114±3	615	ø565	14xM24	6xø28	9
DN500-10	1536	280	127±3	670	ø620	14xM24	6xø28	9
DN600-10	1782	280	154±4	780	ø725	14xM27	6xø31	9
DN700-10	2100	280	165±4	895	ø840	16xM27	8xø31	7.5
DN800-10	2376	280	190±4	1015	ø950	16xM30	8xø34	7.5
DN900-10	2610	280	203±5	1115	ø1050	20xM30	8xø34	6.43
DN1000-10	2840	280	216±5	1230	ø1160	20xM33	8xø37	6.43
DN1200-10	3330	280	254±6	1455	ø1380	24xM36	8xø41	5.63
DN1400-10	3814	280	279±6	1675	ø1590	28xM39	8xø44	5

- Operation Type



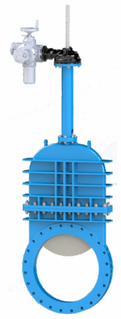
Handwheel | Gear Operated | Pneumatic Actuated | Motorized Drive | Hydraulic Actuated | Chain Gear Drive

Bonneted Knife Gate Valve

The Bonneted Knife Gate Valve features a fully enclosed structure with a stem packing seal design, ensuring zero media leakage (soft seal). During operation, the gate scrapes off contaminants from the sealing surfaces, effectively providing a self-cleaning function.
Additionally, this valve offers easy maintenance and overhaul, with seal components designed for quick and simple replacement. The stem seal design also minimizes operating torque, making the valve easier to operate.

• Design Characteristics:

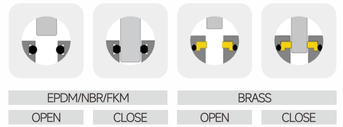
- Rising Stem
- Design & Manufacturing Standard: MSS SP-81 & MFG
- Flange Connection Standard: EN 1092-2 PN10
- Test & Inspection Standard: EN12266
- Face-to-Face Dimension Standard: MFG
- Coating Standard: EN 14901, FBE coating with thickness no less than 250μm
- Main Materials:
  Body: GGG40/50, Knife Gate: SS304, SS316L, SS2205, SS2507
- Size Range and Design Pressure
  Bi-directional seal, Sizes from DN50 to DN1400
  DN50-DN900 10 bar
  DN1000-DN1200 7 bar
  DN1400 5 bar

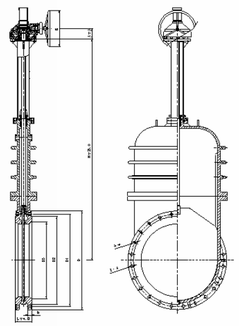


Oversized dimensions and pressure ratings provided on request

- Seal Type
  Bi-directional Seal







Unit: mm

DN	L	D3	H	D	D1	D2	Z-ød	N-m	D0
50	48	ø50	360	ø165	ø125	ø102	2-ø18	2-M16	ø200
65	48	ø65	400	ø185	ø145	ø122	2-ø18	2-M16	ø200
80	51	ø80	440	ø200	ø160	ø138	6-ø18	2-M16	ø200
100	51	ø96	495	ø220	ø180	ø158	6-ø18	2-M16	ø250
125	57	ø122	575	ø250	ø210	ø188	6-ø18	2-M16	ø250
150	57	ø145	645	ø285	ø240	ø212	6-ø22	2-M20	ø250
200	70	ø190	760	ø340	ø295	ø268	6-ø22	2-M20	ø320
250	70	ø240	915	ø400	ø350	ø320	8-ø22	4-M20	ø320
300	76	ø290	1075	ø460	ø400	ø370	8-ø22	4-M20	ø350
350	76	ø335	1190	ø515	ø460	ø430	10-ø22	6-M20	ø400

DN	L	D3	H	D	D1	D2	Z-ød	N-m	A	B
400	89	ø385	1230	ø575	ø515	ø480	10-ø26	6-M24	76	ø305
600	114	ø575	1756	ø780	ø725	ø682	12-ø30	8-M27	84	ø460
800	114	ø760	2280	ø1020	ø950	ø905	14-ø33	10-M30	95	ø610
1000	180	ø950	2910	ø1230	ø1160	ø1110	16-ø36	12-M33	95	ø610
1200	200	ø1140	3355	ø1455	ø1380	ø1330	18-ø39	14-M36	135	ø610
1400	230	ø1335	3915	ø1675	ø1590	ø1535	20-ø42	16-M39	135	ø610

- Operation Type



Handwheel



Gear Operated



Hydraulic Actuated



Motorized Drive



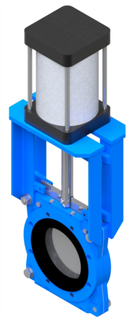
Chain Gear Drive

Slurry Knife Gate Valve

The two-piece body of the Slurry Knife Gate Valve incorporates a replaceable natural rubber core. This material delivers exceptional wear and corrosion resistance, enabling the valve to withstand the scouring action of granular materials and corrosive media. This not only reduces long-term maintenance costs through the replacement of sealing parts, but also extends the valve's overall service life. As a specialized mining slurry valve, it is widely used in granular material conveying pipelines across industries including mining, metallurgy, coal, and chemical engineering.

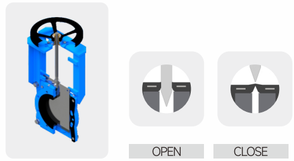
• Design Characteristics:

- Rising Stem
- Design & Manufacturing Standard: MSS SP-81
- Flange connection Standard: ASME B16.5, EN 1092-1 PN10/PN16
- Test and Inspection Atandard: EN 12266
- Face-to-Face Dimension Standard: MSS-SP-81
- Recommended maximum linear gate travel speed: 25mm/second
- Installation Requirement: Install with gate in fully open position
- Frames & Gate: Equipped with mounting holes for standard accessory installation via hand tools
- Main Materials:
  Body: WCB (FBE coating with thickness no less than 250μm), CF8, CF8M, CF3, CF3M, SS2205, SS2207
  Knife Gate: SS304, SS316L, SS2205, SS2507
- Size Range and Design Pressure
  Bi-directional Seal, Sizes from DN50 to DN600
  DN50-DN400 10 bar
  DN450-DN600 6 bar

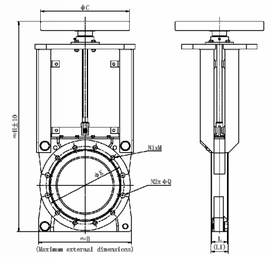


Oversized dimensions and pressure ratings provided on request

- Seal Type
  NR, Bi-directional

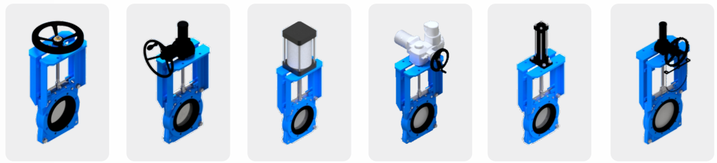


Unit: mm



DN-Inch	≈H	B	øC	L	øK	N1xM	N2xøQ	L1	øP
50-2"	570	175.3	ø320	48±1.5	ø125	4xM16	—	55	ø80
80-3"	667	203.2	ø320	51±1.5	ø160	4xM16	4xø18	58	ø100
100-4"	717	243.8	ø320	51±1.5	ø180	4xM16	4xø18	58	ø160
150-6"	874	292.1	ø450	57±1.5	ø240	4xM20	4xø22	64	ø200
200-8"	1047	342.9	ø550	70±1.5	ø295	4xM20	4xø22	77	ø200
250-10"	1233	416.6	ø550	70±1.5	ø350	8xM20	4xø22	77	ø250
300-12"	1502	482.6	/	76±3	ø400	8xM20	4xø22	83	ø300
350-14"	1543	533.4	/	76±3	ø460	12xM20	4xø22	83	ø350
400-16"	1674	603.3	/	89±3	ø515	12xM24	4xø26	96	ø350
450-18"	1979	647.7	/	89±3	ø565	16xM24	4xø26	96	ø350
500-20"	2097	711.2	/	114±3	ø620	16xM24	4xø26	121	ø400
600-24"	2567	838.2	/	114±3	ø725	16xM27	4xø30	121	ø400

- Operation Type



Handwheel | Gear Operated | Pneumatic Actuated | Motorized Drive | Hydraulic Actuated | Chain Gear Drive

Carbon Steel and Stainless Steel Knife Gate Valve

Available in carbon steel and stainless steel, this one-piece wafer-style uni-directional Knife Gate Valve delivers exceptional acid, alkali, and corrosion resistance. Ideal for corrosive particles and weakly corrosive media, it ensures leak-tight shut-off and prevents backflow via its uni-directional seal.

The robust knife gate design easily slices through fibrous media, slurries, and fine particles, making it a durable solution for demanding industrial applications.

• Design Characteristics:

- Rising | Non-Rising
- Design & Manufacturing Standard: MSS SP-81
- Flange Connection Standard: EN 1092-1 PN10
- Test and Inspection Standard: EN 12266
- Face-to-Face Dimension Standard: MSS SP-81
- Main Materials:
  Body: WCB (FBE coating with thickness no less than 250μm), CF8, CF8M, CF3, CF3M, SS2205, SS2207
  Knife Gate: SS304, SS316L, SS2205, SS2507
- Uni-directional Seal, an arrow is marked on the valve body, indicating the flow direction.
- Size Range and Design Pressure
  Sizes from DN50 to DN600
  DN50-DN350 10 bar
  DN400-DN450 6 bar
  DN500-DN600 4 bar

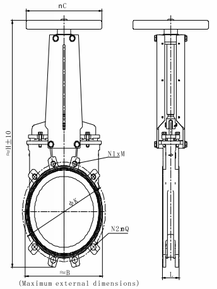


Oversized dimensions and pressure ratings provided on request

- Seal material:



METAL	SOFT		
BODY/ALLEYSTEEL/BRASS	EPDM/NBR/FKM/SILICONE		PTFE

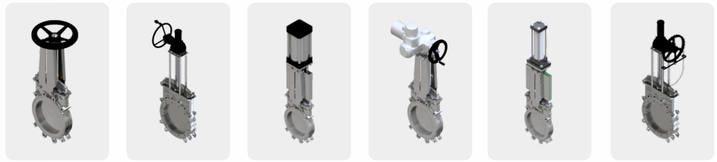


Unit: mm

DN-PN	L	B	H	øK	N1xM	N2xød	α°	øC
50-10	48±1.5	121	340	125	2xM16	2xø18	45°	180
65-10	48±1.5	139	375	145	2xM16	2xø18	45°	180
80-10	51±1.5	141	437	160	2xM16	2xø18	22.5°	200
100-10	51±1.5	162	470	180	2xM16	2xø18	22.5°	220
125-10	57±1.5	191	528	210	2xM16	2xø18	22.5°	220
150-10	57±1.5	219	600	240	2xM20	2xø22	22.5°	250
200-10	70±1.5	270	735	295	2xM20	2xø22	22.5°	280
250-10	70±1.5	326	870	350	4xM20	4xø22	15°	320
300-10	76±3	374	1027	400	4xM20	4xø22	15°	400
350-10	76±3	444	1080	460	6xM20	4xø22	11.25°	400

	L	B	H	H1	øK	N1xM	N2xød	α°	Gear
400-10	89±3	494	1157	500	515	6xM24	4xø26	11.25°	BA00
450-10	89±3	549	1269	550	565	8xM24	6xø26	9°	BA00
500-10	114±3	616	1413	650	620	8xM24	6xø26	9°	BA00
600-10	114±3	723	1662	750	725	8xM27	6xø30	9°	Ba00

- Operation Type



Handwheel | Gear Operated | Pneumatic Actuated | Motorized Drive | Hydraulic Actuated | Chain Gear Drive