

Bi-directional knife gate valve

Standard Knife Gate Valve



Pneumatic actuated Knife Gate Valve

Product Benefits:

- Knife gate valve is Bi-directional, Zero Leakage, withstanding high differential pressure and full bore valve with minimal seat cavity for maximun flow capacity.
- No groove is designed on the valve seat, which prevents accumulating media on the sealing surface. and thus avoids sealing surface leakage or disc blockage caused by media accumulation.
- The integrated body structure with precision casing.
- U-shaped resilient seat is embeded into the body and is well-connected with the gate, and the friction force is reduced during the upward and downward movements of the gate. This greatly prolongs the using life of the seat and realizes bi-directional sealing.
- The rubber O-ring is embeded into the flange groove, which makes it convenient to connect the valve to pipe and provides reliable sealing.
- knife gate valve is widely used in urban sewage treatment, paper-making, mine slag discharge and the fields allike.

Technical Parameter:

Size	DN50-1200 2"-48"	
	0.6 Mpa, 1.0 Mpa, 1.6 Mpa, 2.5 Mpa	
Pressure Rating	ASME	DN50~250 10 Bar
	CLASS	DN300~400 6 Bar
	150	DN450 5 Bar
		DN500~600 4 Bar
		DN700~1200 2 Bar
Suitable Temperature	-20℃~+170℃	
Leakage Class	Zero Leakage	



Handle Wheel Knife gate valve    Electric actuated Knife Gate Valve    Manual & Pneumatic Knife Gate Valve    Electric hydraulic Knife Gate Valve    Hydraulic Knife Gate Valve    Bevel Gear Knife Gate Valve    Chain actuated Knife Gate Valve



Electric actuated Knife Gate Valve

Product Benefits:

- Knife gate valve is composed of narrow body and sliding Gate
- The gate has sharp blade that can separate or cut the solid particles in the fluid media.
- The polishing treatment on the gate surface strengthens its penetrating power and effectively guarantees the service life of both packing and valve seat.
- The bottom of the valve body is provided with the gate hold-down device that can safely presses the gate tightly on the valve seat in order to ensure valid tight-seal.
- Products are widely used in water treatment, paper-making, Power industry, Chemical industry, Iron and Steel industry, mining and so on.

Technical Parameter:

Size	DN50-1200 2"-48"	
	0.6 Mpa, 1.0 Mpa, 1.6 Mpa, 2.5 Mpa	
Pressure Rating	ASME	DN50~250 10 Bar
	CLASS	DN300~400 6 Bar
	150	DN450 5 Bar
		DN500~600 4 Bar
		DN700~1200 2 Bar
Suitable Temperature	-60℃~+1100℃	
Leakage Class	40ml/min/in	Max.40ml/min/in metal seated
	0ml/min/in PTFE	Max. 0ml/min/in PTFE seated
	0ml/min/in	Max. 0ml/min/in Rubber seated



Handle Wheel Knife gate valve    Pneumatic actuated Knife Gate Valve    Manual & Pneumatic Knife Gate Valve    Electric hydraulic Knife Gate Valve    Hydraulic Knife Gate Valve    Bevel Gear Knife Gate Valve    Chain actuated Knife Gate Valve



Product Benefits:

- The sealing surface uses high-end ceramics with toughened structure which has exceedingly high - wear and corrosion-resistant performances.
- Knife gate valve is composed of narrow body and sliding Gate.
- The gate has sharp blade that can separate or cut the solid particles in the fluid media.
- The polishing treatment on the gate surface strengthens its penetrating power and effectively guarantees the service life of both packing and valve seat.
- The bottom of the valve body is provided with the gate hold-down device that can safely presses the gate tightly on the valve seat in order to ensure effective tight-seal.
- Products are widely used in water treatment, paper-making, Power industry, Chemical industry, Iron and Steel industry, mining and so on.



Hydraulic Knife Gate Valve

Technical Parameter:

Size	DN50-600 2"~24"	
Pressure Rating	0.6 Mpa, 1.0 Mpa, 1.6 Mpa, 2.5 Mpa	
	ASME	DN50~250 10 Bar
	CLASS 150	DN300~400 6 Bar DN450 5 Bar DN500~600 4 Bar
Suitable Temperature	-29℃ ~+200℃	
Leakage Class	40ml/min/in Max.40ml/min/in metal seated	

Product Benefits:

- Knife gate valve is composed of narrow body and sliding Gate.
- The gate has sharp blade that can separate or cut the solid particles in the fluid media.
- The polishing treatment on the gate surface strengthens its penetrating power and effectively guarantees the service life of both packing and valve seat.
- The bottom of the valve body is provided with the gate hold-down device that can safely presses the gate tightly on the valve seat in order to ensure effective tight-seal.
- Products are widely used in water treatment, paper-making, Power industry, Chemical industry, Iron and Steel industry, mining and so on.

Technical Parameter:

Size	DN50-1200 2"~48"	
Pressure Rating	0.6 Mpa, 1.0 Mpa, 1.6 Mpa, 2.5 Mpa	
	ASME	DN50~250 10 Bar
	CLASS 150	DN300~400 6 Bar DN450 5 Bar DN500~600 4 Bar DN700~1200 2 Bar
Suitable Temperature	-60℃ ~+1100℃	
Leakage Class	40ml/min/in	Max.40ml/min/in metal seated
	0ml/min/in PTFE	Max. 0ml/min/in PTFE seated
	0ml/min/in	Max. 0ml/min/in Rubber seated



Bevel Gear Knife Gate Valve



Knife gate valve    Electric actuated Knife Gate Valve    Pneumatic actuated Knife Gate Valve    Manual & Pneumatic Knife Gate Valve    Electric hydraulic Knife Gate Valve    Bevel Gear Knife Gate Valve    Chain actuated Knife Gate Valve



Handle Wheel Knife gate valve    Electric actuated Knife Gate Valve    Pneumatic actuated Knife Gate Valve    Manual & Pneumatic Knife Gate Valve    Electric hydraulic Knife Gate Valve    Hydraulic Knife Gate Valve    Chain actuated Knife Gate Valve



Standard Knife Gate Valve

Bolted Bonnet Knife Gate Valve

Product Benefits:

- Knife gate valve is composed of narrow body and sliding Gate.
- The gate has sharp blade that can separate or cut the solid particles in the fluid media.
- The polishing treatment on the gate surface strengthens its penetrating power and effectively guarantees the service life of both packing and valve seat.
- The bottom of the valve body is provided with the gate hold-down device that can safely presses the gate tightly on the valve seat in order to ensure effective tight-seal.
- Products are widely used in water treatment, paper-making, Power industry, Chemical industry, Iron and Steel industry, mining and so on.



Electric hydraulic Knife Gate Valve

Technical Parameter:

Size	DN50-1200 2"-48"	
Pressure Rating	0.6 Mpa, 1.0 Mpa, 1.6 Mpa, 2.5 Mpa	
	ASME CLASS 150	DN50~250 10 Bar DN300~400 6 Bar DN450 5 Bar DN500~600 4 Bar DN700~1200 2 Bar
Suitable Temperature	-60℃~+1100℃	
Leakage Class	40ml/min/in	Max.40ml/min/in metal seated
	0ml/min/in PTFE	Max. 0ml/min/in PTFE seated
	0ml/min/in	Max. 0ml/min/in Rubber seated

Product Benefits:

- The gate of the fully closed knife gate valve is embedded inside the valve body, totally isolated from exterior environment. The valve cap is provided with round stuffing box which can effectively avoid the leakage of fluid media.
- Both top part of the gate and bottom part of the valve body are provided with hold-down devices. Effective seal may be achieved by changing the vertical pushing force of the valve rod into lateral force so that the gate presses tightly against the valve seat.
- This product is extremely suitable for being applied in automation control systems that call for frequent startups and shutdowns, and high environment requirements, including food, brewing, coal liquefaction, sewage treatment, petrochemical, steel and other industries.



Manual & Pneumatic Knife Gate Valve

Technical Parameter:

Size	DN50-1600 2"-64"	
Pressure Rating	0.6 Mpa, 1.0 Mpa, 1.6 Mpa, 2.5 Mpa	
	ASME CLASS 150	DN50~250 10 Bar DN300~400 6 Bar DN450 5 Bar DN500~600 4 Bar DN700~1600 2 Bar
Suitable Temperature	-60℃~+1100℃	
Leakage Class	40ml/min/in	Max.40ml/min/in metal seated
	0ml/min/in PTFE	Max. 0ml/min/in PTFE seated
	0ml/min/in	Max. 0ml/min/in Rubber seated



Handle Wheel Knife gate valve    Electric actuated Knife Gate Valve    Pneumatic actuated Knife Gate Valve    Manual & Pneumatic Knife Gate Valve    Hydraulic Knife Gate Valve    Bevel Gear Knife Gate Valve    Chain actuated Knife Gate Valve



Handle Wheel Knife gate valve    Electric actuated Knife Gate Valve    Pneumatic actuated Knife Gate Valve    Electric hydraulic Knife Gate Valve    Hydraulic Knife Gate Valve    Bevel Gear Knife Gate Valve    Chain actuated Knife Gate Valve



Bolted Bonnet Knife Gate Valve

Slurry Valve

Product Benefits:

- The gate of the fully closed knife gate valve is embedded inside the valve body, totally isolated from exterior environment. The valve cap is provided with round stuffing box which can effectively avoid the leakage of fluid media.
- Both top part of the gate and bottom part of the valve body are provided with hold-down devices. Effective seal may be achieved by changing the vertical pushing force of the valve rod into lateral force so that the gate presses tightly against the valve seat.
- This product is extremely suitable for being applied in automation control systems that call for frequent startups and shutdowns, and high environment requirements, including food, brewing, coal liquefaction, sewage treatment, petrochemical, steel and other industries.



Handle Wheel Knife gate valve

Technical Parameter:

Size	DN50-1600 2"-64"	
	0.6 Mpa, 1.0 Mpa, 1.6 Mpa, 2.5 Mpa	
Pressure Rating	ASME	DN50~250 10 Bar
	CLASS	DN300~400 6 Bar
150		DN450 5 Bar
		DN500~600 4 Bar
		DN700~1600 2 Bar
Suitable Temperature	-60℃~+1100℃	
Leakage Class	40ml/min/in	Max.40ml/min/in metal seated
	0ml/min/in PTFE	Max. 0ml/min/in PTFE seated
	0ml/min/in	Max. 0ml/min/in Rubber seated

Product Benefits:

- Basic Structure is similar to bi-directional sealing Knife gate valve, The differences is that body is tow pieces constitution and integrate with bolts.
- Used under conditions of Bi-directional sealing. Zero Leakage and withstanding high differential pressure.
- No groove is designed on the valve seat, which prevents accumulating media on the sealing surface. and thus avoids sealing surface leakage or disc blockage caused by media accumulation.
- U-shaped resilient seat is embeded into the body and is well-connected with the gate, and the friction force is reduced during the upward and downward movements of the gate. This greatly prolongs the using life of the seat and realizes bi-directional sealing.
- Products are widely used in urban sewage treatment, paper-making, mine slag discharge and the fields alike.



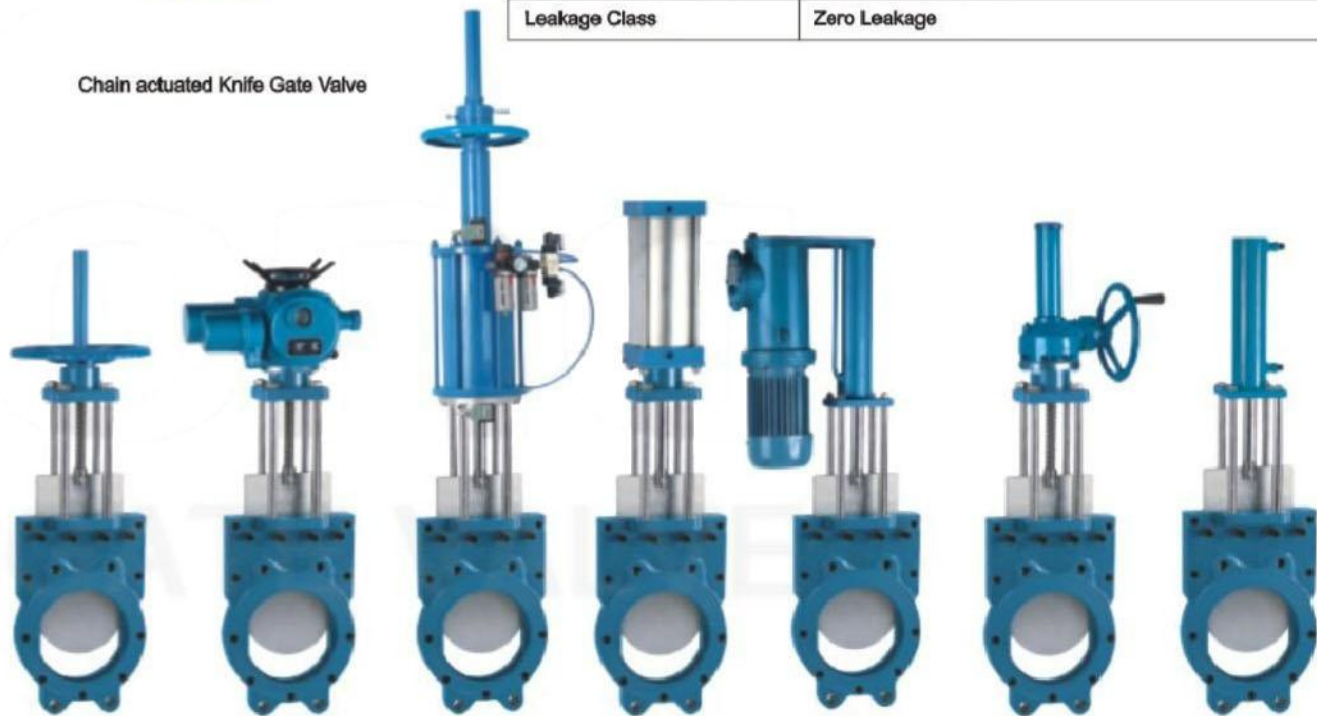
Chain actuated Knife Gate Valve

Technical Parameter:

Size	DN50-1200 2"-48"	
	0.6 Mpa, 1.0 Mpa, 1.6 Mpa, 2.5 Mpa	
Pressure Rating	ASME	DN50~250 10 Bar
	CLASS	DN300~400 6 Bar
150		DN450 5 Bar
		DN500~600 4 Bar
		DN700~1200 2 Bar
Suitable Temperature	-20℃~+170℃	
Leakage Class	Zero Leakage	



Electric actuated Knife Gate Valve Pneumatic actuated Knife Gate Valve Manual & Pneumatic Knife Gate Valve Electric hydraulic Knife Gate Valve Hydraulic Knife Gate Valve Bevel Gear Knife Gate Valve Chain actuated Knife Gate Valve



Handle Wheel Knife gate valve Electric actuated Knife Gate Valve Manual & Pneumatic Knife Gate Valve Pneumatic actuated Knife Gate Valve Electric hydraulic Knife Gate Valve Bevel Gear Knife Gate Valve Hydraulic Knife Gate Valve



# Polyurethane Lining Knife Gate Valve

# Slurry Valve

### Product Benefits:

- The entire media overflow parts generally adopts polyurethane lining which is wear-resistant and has a long service life.
- Full Port, Zero Leakag .
- Packing uses one-piece molded rubber to achieve zero leakage in the upper seal.
- Replaceable one-piece polyurethane lining and stainless steel gate that saves the maintenance cost of the gate.
- This product is widely used in mine discharge, electric power, paper making, and urban sewage treatment industries.



### Technical Parameter:

Size	DN50-600 2"-24"	
	0.6 Mpa, 1.0 Mpa, 1.6 Mpa	
Pressure Rating	ASME CLASS 150	DN50~250 10 Bar DN300~400 6 Bar DN450 5 Bar DN500~600 4 Bar
Suitable Temperature	-20℃~+100℃	
Leakage Class	Zero Leakage	

### Product Benefits:

- Rubber valve seat of embedded reinforcing ring may guarantee safe usage under poor working environment. It is wear resistant and has long service life.
- Replaceable rubber valve seat and stainless steel gate that save the repair cost of the valve.
- This product is widely used in mine waste, mortar, slurry, coal slurry, paper making and urban sewage treatment industries.

### Technical Parameter:

Size	DN50-600 2"-24"	
Pressure Rating	0.25 Mpa	
	ASME CLASS 150	DN50~600 2.5 Bar
Suitable Temperature	-10℃~+120℃	
Leakage Class	Zero Leakage	



Handle Wheel Knife gate valve

Bevel Gear Knife Gate Valve



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Through conduit knife gate valve

Square knife gate valve

Product Benefits:

- Two-way sealing with two seal rings on the valve seat, this gate is longer and the bottom extends out of the valve body and requires two packing glands.
- The gate forms a cavernous Port whose role is that when the gate opens, medium may flow away completely without any detention; when the gate closes, it may be completely sealed.
- When the media are of high concentration, it may also keep the valve seat sealed. As there is no detention area, the bottom of the gate without medium accumulation.
- This product is suitable for the loading and unloading of sugar-making and chemical equipment (dryer and reactor) and the outlet of sizing agent in paper making plants. It may also be used for the recycling of old paper mingled with a large amount of impurities.



Pneumatic actuated Knife Gate Valve

Technical Parameter:

Size	DN50-600 2"-24"	
	0.6 Mpa, 1.0 Mpa, 1.6 Mpa, 2.5 Mpa	
Pressure Rating	ASME CLASS 150	DN50-250 10 Bar
		DN300-400 6 Bar
		DN450 5 Bar
		DN500-600 4 Bar
Suitable Temperature	-60℃~+1100℃	
Leakage Class	40ml/min/in	Max.40ml/min/in metal seated
	0ml/min/in PTFE	Max. 0ml/min/in PTFE seated



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Product Benefits:

- Same construction as standard knife gate valve.
- Body and gate in rectangular valve shape.
- Same actuators and accessories as standard.
- Rising stem tight model.
- Square flange ends.



Pneumatic actuated Knife Gate Valve

Technical Parameter:

Size	DN200 × 200……DN1000 × 1000 8" × 8"……40" × 40"
Pressure Rating	0.6 Mpa, 1.0 Mpa, 1.6 Mpa
Suitable Temperature	-20℃~+200℃
Main Material	Q235A, 304, 316, 304L, 316L
Seal Type	Metal Seated
	Rubber Seated



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Product Benefits:

- The whole range of control valve products of Wenzhou Henglong Valve includes: gate valves, knife gate valves, ball valves, stop valves, check valves, and butterfly valve. Its products are used in paper-making, pharmaceutical, power, environment protection, petrochemical, chemical industries and so on.

Technical Parameter:

Size	DN25 ~ 1000 1" ~ 40"
Pressure Rating	PN10 ~ PN260 ANSI150 ~ 1500LB
Suitable Temperature	-40℃ ~ +1100℃
Body Material	Carbon steel, Stainless Steel



V Type Ball Valve



Check Valve



Globe Valve



Gate Valve



O Type Ball Valve



Butterfly Valve



Body

Cast Iron	HT250	GG25
Ductile Iron	QT400-18	GGG40
Stainless Steel	06Cr19Ni10	AISI 304
Stainless Steel	06Cr25Ni20	AISI 310
Stainless Steel	06Cr17Ni12Mo2	AISI 316
Cast steel	WCB	ASTMA216 WCB

Gate

Stainless Steel	06Cr19Ni10	AISI 304
Stainless Steel	06Cr25Ni20	AISI 310
Stainless Steel	06Cr17Ni12Mo2	AISI 316

Seat and O-ring

Metal
Nitril
EPDM
Silicone
White Silicone
PTFE

Packing

Tallowed cotton
Tefloned acrylic
PTFE
Graphite
Very high temperature

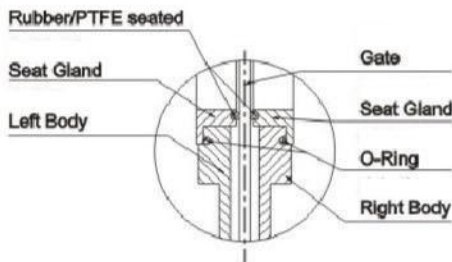
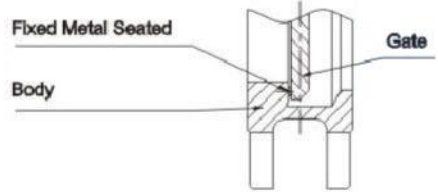
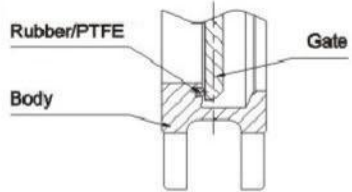
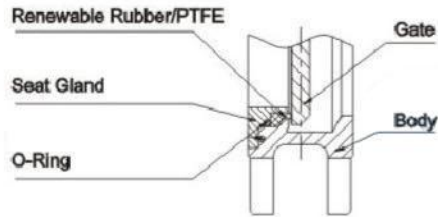
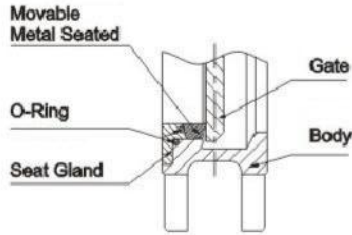
Standard construction

Body	Ductile Iron QT400-18	Stainless Steel 06Cr17Ni12Mo2
Gate	Stainless Steel 06Cr19Ni10	Stainless Steel 06Cr17Ni12Mo2
Seat	Nitril	EPDM
Packing	Tallowed cotton	Tallowed cotton

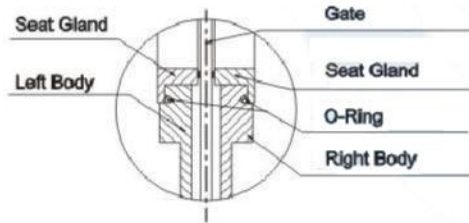


Seat Structure

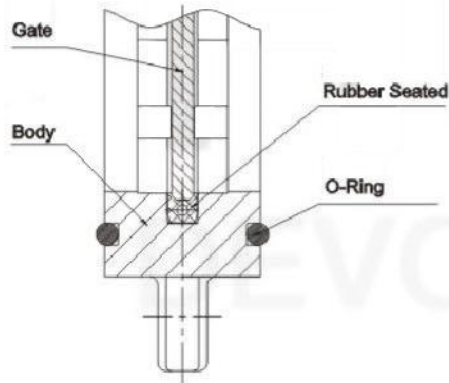
- Renewable Seat, Easy maintenance and Reliability are economic acquisition for customers.
- Multi-Seat material can be used in different fluids and solid media.



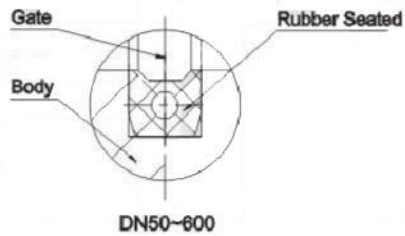
Rubber/PTFE Sealing Structure



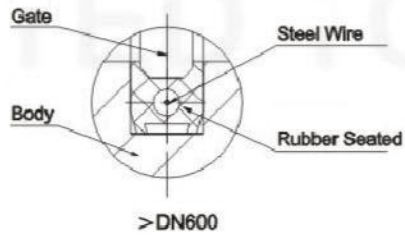
Movable metal sealing Structure



Bi-directional Sealing Structure



DN50-600



>DN600

Knife Gate Valve Flange connection diameter chart

Size Of Flange GB/T9113.1 0.6Mpa

DN	L	Flange Connection					
		D	φ D1	φ D2	N × M	φ d	
mm	Inch	mm	mm	mm	mm	mm	
50	2"	48	140	110	88	4 × M12	14
65	2(1/2)"	48	160	130	108	4 × M12	14
80	3"	51	190	150	124	4 × M16	18
100	4"	51	210	170	144	4 × M16	18
125	5"	57	240	200	174	8 × M16	18
150	6"	57	265	225	199	8 × M16	18
200	8"	70	320	280	254	8 × M16	18
250	10"	70	375	335	309	12 × M16	18
300	12"	76	440	395	363	12 × M20	22
350	14"	76	490	445	413	12 × M20	22
400	16"	89	540	495	463	16 × M20	22
450	18"	89	595	550	518	16 × M20	22
500	20"	114	645	600	568	20 × M20	22
600	24"	114	775	705	667	20 × M24	26
700	28"	165	860	810	772	24 × M24	26
800	32"	165	975	920	878	24 × M27	30
900	36"	203	1075	1020	978	24 × M27	30
1000	40"	216	1175	1120	1078	28 × M27	30
1200	48"	254	1405	1340	1295	32 × M30	33

Size Of Flange GB/T9113.1 1.0Mpa

DN	L	Flange Connection					
		D	φ D1	φ D2	N × M	φ d	
mm	Inch	mm	mm	mm	mm	mm	
50	2"	48	165	125	99	4 × M16	18
65	2(1/2)"	48	185	145	118	4 × M16	18
80	3"	51	200	160	132	8 × M16	18
100	4"	51	220	180	156	8 × M16	18
125	5"	57	250	210	184	8 × M16	18
150	6"	57	285	240	211	8 × M20	22
200	8"	70	340	295	266	8 × M20	22
250	10"	70	395	350	319	12 × M20	22
300	12"	76	445	400	370	12 × M20	22
350	14"	76	505	460	429	16 × M20	22
400	16"	89	565	515	480	16 × M24	26
450	18"	89	615	565	530	20 × M24	26
500	20"	114	670	620	582	20 × M24	26
600	24"	114	780	725	682	20 × M27	30
700	28"	165	895	840	794	24 × M27	30
800	32"	165	1015	950	901	24 × M30	33
900	36"	203	1115	1050	1001	28 × M30	33
1000	40"	216	1230	1160	1112	28 × M33	36
1200	48"	254	1455	1380	1328	32 × M36	39

Size Of Flange GB/T9113.1 1.6Mpa

DN	L	Flange Connection					
		D	φ D1	φ D2	N × M	φ d	
mm	Inch	mm	mm	mm	mm	mm	
50	2"	48	165	125	99	4 × M16	18
65	2(1/2)"	48	185	145	118	4 × M16	18
80	3"	51	200	160	132	8 × M16	18
100	4"	51	220	180	156	8 × M16	18
125	5"	57	250	210	184	8 × M16	18
150	6"	57	285	240	211	8 × M20	22
200	8"	70	340	295	266	12 × M20	22
250	10"	70	405	355	319	12 × M24	26
300	12"	76	460	410	370	12 × M24	26
350	14"	76	520	470	429	16 × M24	26
400	16"	89	580	525	480	16 × M27	30
450	18"	89	640	585	548	20 × M27	30
500	20"	114	715	650	609	20 × M30	33
600	24"	114	840	770	720	20 × M33	36
700	28"	165	910	840	794	24 × M33	36
800	32"	165	1025	950	901	24 × M36	39
900	36"	203	1125	1050	1001	28 × M36	39
1000	40"	216	1255	1170	1112	28 × M39	42
1200	48"	254	1485	1390	1328	32 × M45	48

Size Of Flange ASME CLASS 150

DN	L	Flange Connection			
		D	φ D1	φ D2	N × M
mm	Inch	mm	mm	mm	Inch
50	2"	48	152	120.5	92 4 × 5/8"-UNC
65	2(1/2)"	48	178	139.5	105 4 × 5/8"-UNC
80	3"	51	190	152.5	127 4 × 5/8"-UNC
100	4"	51	229	190.5	157 8 × 5/8"-UNC
125	5"	57	254	216	186 8 × 3/4"-UNC
150	6"	57	279	241.5	216 8 × 3/4"-UNC
200	8"	70	343	298.5	270 8 × 3/4"-UNC
250	10"	70	406	362	324 12 × 7/8"-UNC
300	12"	76	483	432	381 12 × 7/8"-UNC
350	14"	76	533	476	413 12 × 1"-UNC
400	16"	89	597	540	476 16 × 1"-UNC
450	18"	89	635	578	533 16 × 1(1/8)"-UNC
500	20"	114	698	635	584 20 × 1(1/8)"-UNC
600	24"	114	813	749.5	692 20 × 1(1/4)"-UNC
700	28"	165	927	863.6	800 28 × 1(1/4)"-UNC
750	30"	165	984	914	857 28 × 1(1/4)"-UNC
800	32"	165	1060	978	914 28 × 1(1/2)"-UNC
900	36"	203	1168	1086	1022 32 × 1(1/2)"-UNC
1000	40"	216	1289	1200	1124 36 × 1(1/2)"-UNC

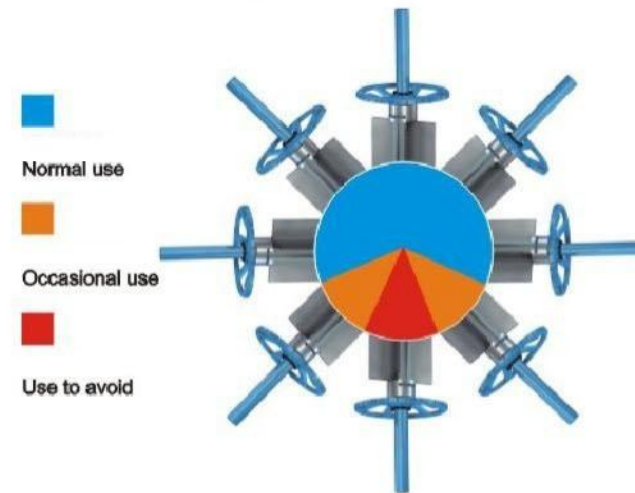




## Precautionary Measures

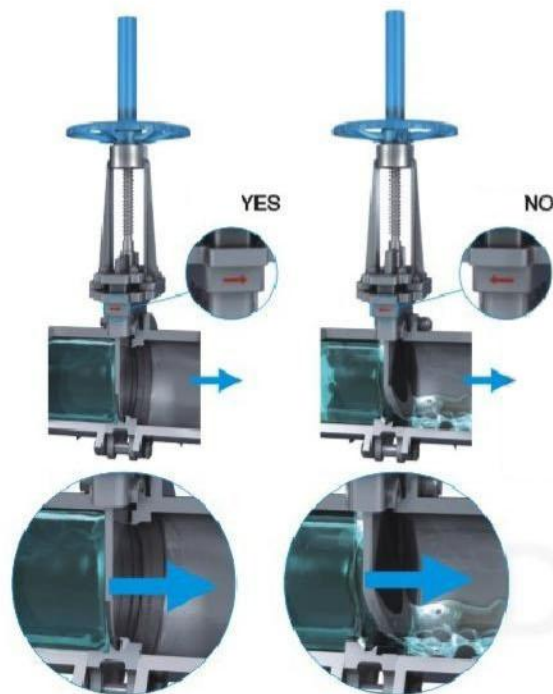
### Valve position:

- The valve can be assembled in any position however, we recommend suitable position.



### Uni-directional knife gate valve assembling way.

- The valve is uni-directional ,it must be installed with the pressure which push the knife on the seat. The flow direction is user responsibility. Please assemble the valve following the arrow on the body ( Hydraulics applications ).



- For applications of pneumatic transport or pulverized products, consult us.

### Assembling type

- With screws+nuts and bolts set.



### Bottom line assembling

- For bottom line assembling the valve must be installed between flanges.



## precautionary measures

### Tight the packing gland

- The valves are always delivered with the loosened packing gland .
- Before any use, tighten the gland gradually and moderately.



### Valve support

- When the valves are operated with heavy actuators ( pneumatic actuator, electric actuator.. ) in horizontal or tilting position, the actuator must be supported by means of the retaining plate Supplied.



### Greasing

- Take care of the assembly of the protection tube of stem at the time of the first installation. The grease reserve of the stem is ensured in the protection tube, offering a regular greasing.



### protection tube

- In the event of prolonged storage or of weak frequency of operation, lubricate the valve stem regularly.

