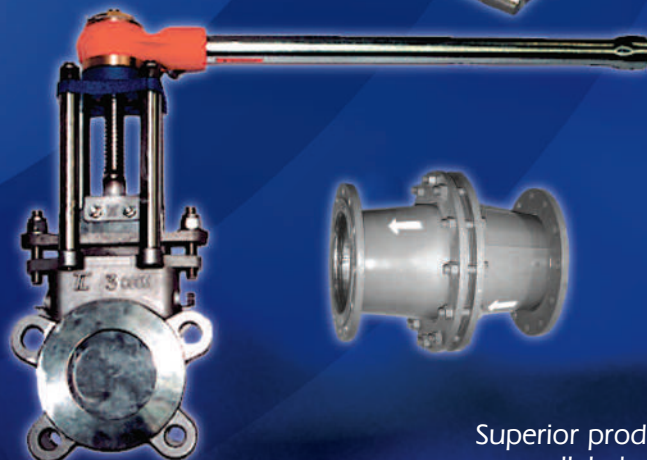
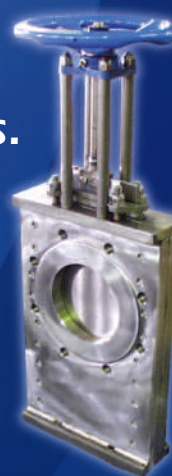


# TRUELINE®

Not just your standard  
valve supplier...

...but custom valve  
solutions for your  
most severe applications.



Superior products and  
unparalleled solutions.

## Uni-Directional Knife Gate (Resilient Seat Optional)

### Standard:

ASME (ANSI)

### General Features:

These valves (including resilient seat option) are typically used in the following applications:

- Pulp and paper.
- Municipal.

### Design Standards:

New lightweight epoxy coated handwheel standard on valves up to 14".

Back-up ring facilitates the conversion to 2-way shut off.

Stopper allows the gate to form a tight seal against the seat.

Flanges match ASME (ANSI) B 16.5 - 150 lbs. All come standard with tapped holes and serrated gasket faces.

Special investment cast couplings for each size. Tight tolerances on holes allows for immediate response without hysteresis.

Upper and lower bearings for valves 14" and larger.

Stainless steel stanchions precisely machined for alignment and ease of field retrofit from manual to automated.

Machined surfaces to accept machined stanchions.

VITON "O" ring (Standard).

### Other operators available include:

- Epoxy coated ductile iron handwheel.
- Chain-wheel.
- Bevel gear.
- Pneumatic cylinder.
- Electric actuator.
- Non-rising stem complete with operating nut or handwheel.
- Control accessories such as positioners, limit switches, solenoids, etc.

### Optional "O" rings

- EDPM.
- AFLAS.
- BUNA.

For special applications contact factory.

### Options Available:

- Resilient seat for drip tight shut-off.
- Vee-port for throttling service.

### Testing and Certification:

All Trueline Knife Gate valves are built and tested in accordance with MSS-SP81 and TAPPI T1S 405-8 specifications. All metal-seated valves meet or exceed seat test requirements. Test data is available on request.

### Materials:

Full Lug Body: Cast in Various Materials

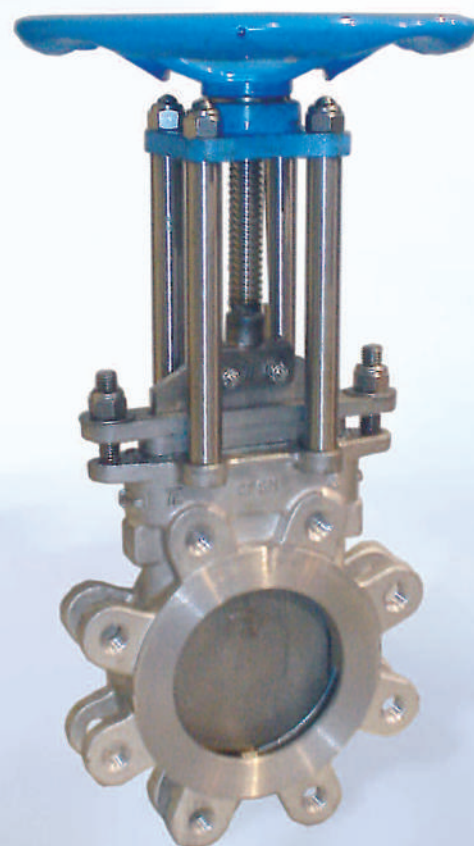
- F8112 - CF8M (316 SST).
- F8113 - CG8M (317 SST).
- F8114 - 254 SMO.
- F8115 - Cast Ductile Iron.
- F8116 - Special Alloys.

### Fully Machined Gate:

- Available in 316, 317, 254 SMO and other exotic alloys.
- All gates have full radius on both sides.

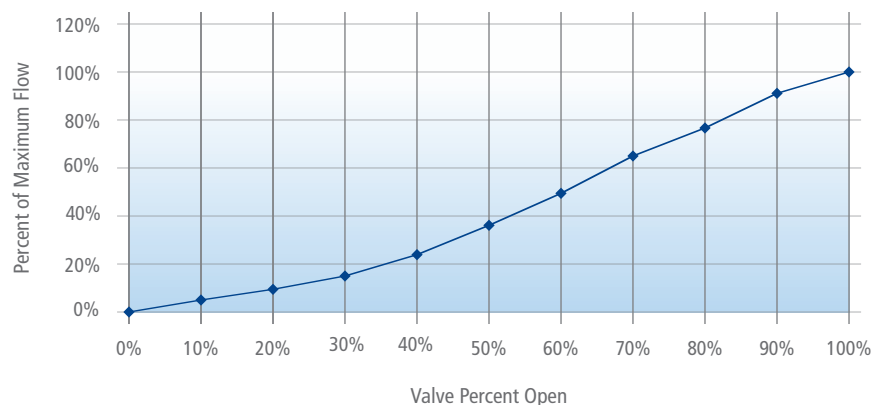
### Dimensions:

Sizes available: 2" ~ 48"



## Uni-Directional Knife Gate (Resilient Seat Optional)

### F8112 Metal Seated Vee-Orifice Flow Characteristic Curve



### F8112 Metal Seated Vee-Orifice Flow Coefficients (Cv)% Open

VALVE	PERCENTAGE OPEN									
SIZE	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
2"	1.3	4	9	14	22	32	40	50	58	64
3"	3.7	12	24	42	65	91	116	145	168	185
4"	7.2	23	47	83	126	177	228	282	329	362
6"	16	53	107	186	283	401	515	636	739	815
8"	32	105	203	356	539	765	981	1,209	1,416	1,555
10"	50	164	329	582	886	1,244	1,593	1,975	2,302	2,531
12"	75	243	487	861	1,312	1,835	2,360	2,918	3,411	3,744
14"	101	319	651	1,160	1,753	2,449	3,151	3,908	4,549	5,000
16"	133	422	868	1,546	2,336	3,259	4,196	5,200	6,068	6,657
18"	161	538	1,048	1,858	2,821	3,951	5,085	6,285	7,338	8,055
20"	201	661	1,298	2,295	3,501	4,898	6,291	7,798	9,091	9,989
24"	294	989	1,932	3,408	5,191	7,261	9,330	11,576	13,441	14,811

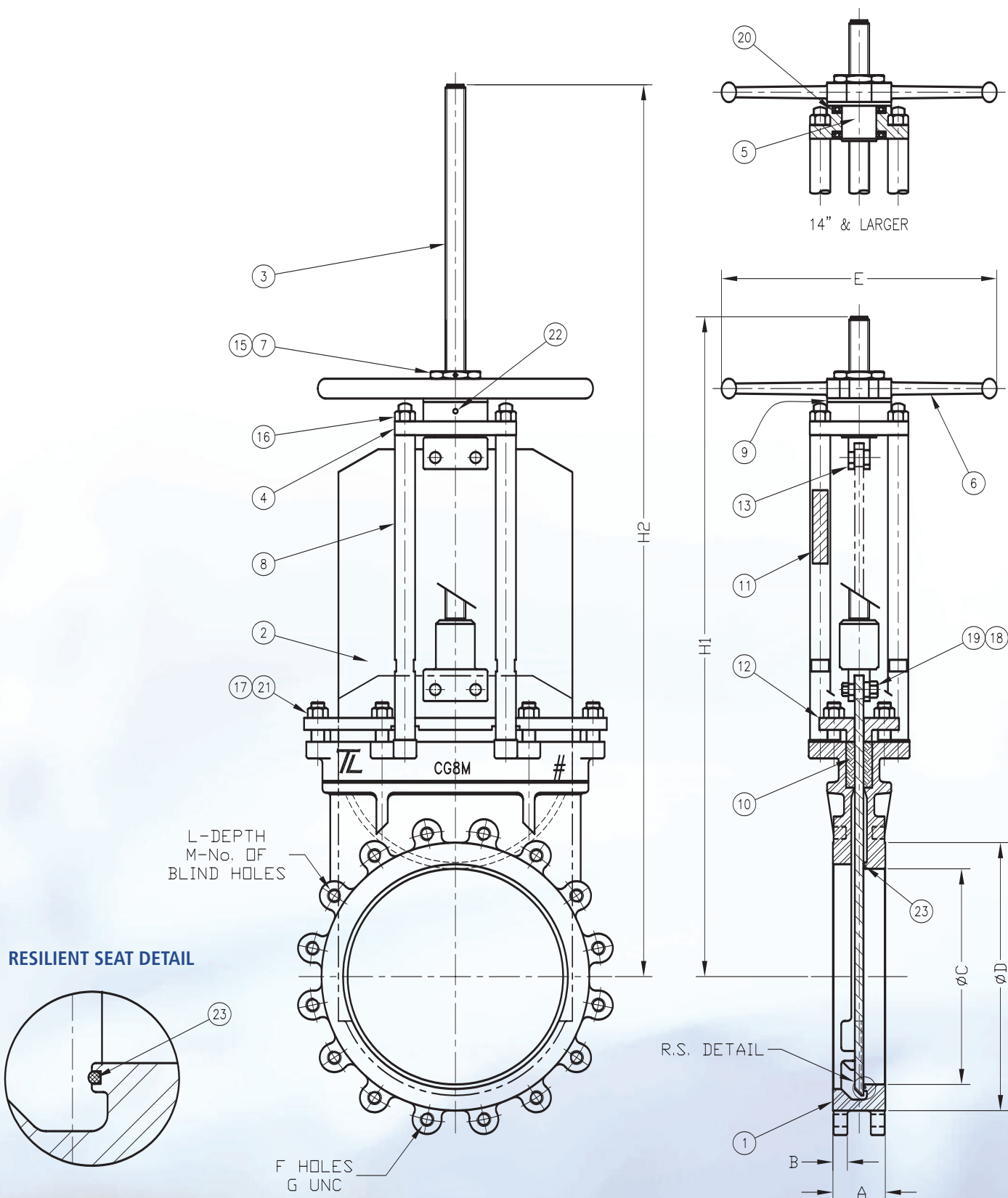
### F8112 Round Port Flow Coefficients (Cv)% Open

VALVE	PERCENTAGE OPEN									
SIZE	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
2"	23	46	65	85	100	120	135	145	155	165
3"	70	142	200	255	310	360	405	440	475	500
4"	120	235	340	435	525	610	690	755	800	850
6"	285	565	810	1,025	1,250	1,460	1,635	1,795	1,920	2,020
8"	505	1,015	1,440	1,835	2,240	2,600	2,920	3,215	3,430	3,610
10"	810	1,615	2,310	2,950	3,590	4,160	4,680	5,140	5,490	5,780
12"	1,290	2,565	3,670	4,675	5,690	6,610	7,430	8,175	8,720	9,180
14"	1,485	2,965	4,240	5,410	6,570	7,630	8,565	9,410	10,090	10,600
16"	2,140	4,275	6,120	7,800	9,460	11,035	12,425	13,630	14,560	15,300
18"	2,805	5,600	8,000	10,185	12,430	14,390	16,170	17,760	18,970	20,000
20"	2,640	7,260	10,370	13,250	16,030	18,620	21,020	23,040	24,670	26,000
24"	5,390	10,760	15,420	19,590	28,860	27,700	31,320	32,240	36,570	38,200
30"	8,330	16,700	23,800	30,300	36,800	42,800	48,190	52,900	56,500	59,680
36"	12,550	25,110	35,930	45,780	55,700	64,700	72,700	79,980	85,390	89,900

# Uni-Directional Knife Gate (Resilient Seat Optional)

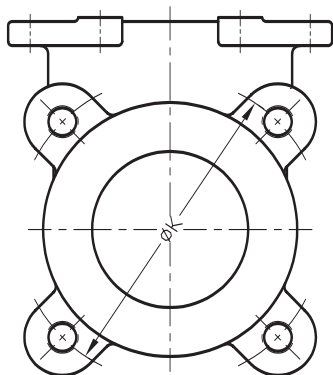
OPENED POSITION

CLOSED POSITION

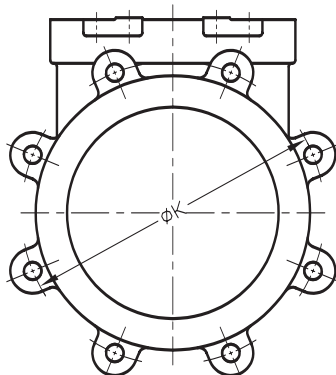




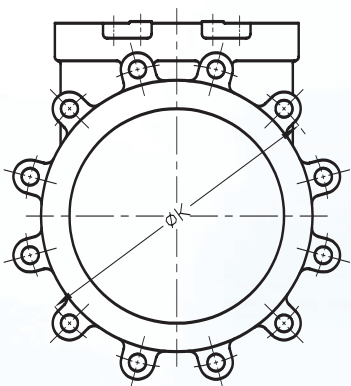
### BOLT CIRCLE CONFIGURATION FOR SIZE 2" TO 3"



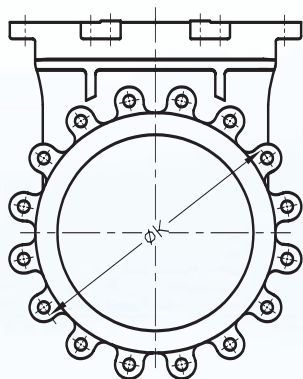
### BOLT CIRCLE CONFIGURATION FOR SIZE 4" TO 8"



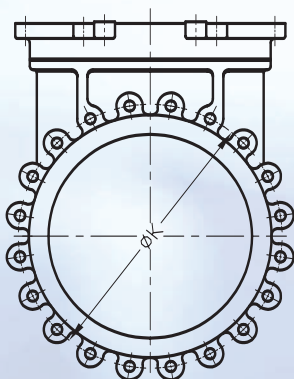
### BOLT CIRCLE CONFIGURATION FOR SIZE 10" TO 14"



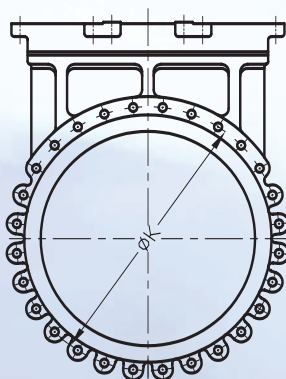
### BOLT CIRCLE CONFIGURATION FOR SIZE 16" TO 18"



### BOLT CIRCLE CONFIGURATION FOR SIZE 20" TO 24"



### BOLT CIRCLE CONFIGURATION FOR SIZE 30" TO 48"



SIZE	A	B	C	D	E	F	G	H1	H2	K	L	M
2	IN 1.88	0.50	1.89	3.62	7.87	4	0.625"-11	10.66	12.83	4.75	--	--
	MM 47.70	12.70	48.00	92.00	200.00			270.76	325.88	101.60	--	--
3	IN 2.00	0.50	2.83	5.00	7.87	4	0.625"-11	12.79	16.18	6.00	0.47	2
	MM 50.80	12.70	72.00	127.00	200.00			324.87	410.97	152.40	12.00	2
4	IN 2.00	0.50	3.62	6.19	7.87	8	0.625"-11	14.64	18.81	7.50	0.39	2
	MM 50.80	12.70	92.00	157.20	200.00			371.86	477.77	190.50	10.00	2
6	IN 2.25	0.63	5.51	8.50	11.02	8	0.75"-10	17.95	24.05	9.50	0.51	2
	MM 57.20	16.00	140.00	215.90	280.00			455.93	610.87	241.30	13.00	2
8	IN 2.75	0.63	7.20	10.62	11.81	8	0.75"-10	23.78	31.81	11.75	0.71	2
	MM 69.85	16.00	183.00	269.80	300.00			604.10	807.97	298.45	18.00	2
10	IN 2.75	0.75	9.02	12.75	11.81	12	0.875"-9	25.70	35.70	14.25	0.71	4
	MM 69.85	19.05	229.00	323.85	300.00			652.78	906.78	362.00	18.00	4
12	IN 3.00	0.75	11.26	15.00	13.98	12	0.875"-9	31.61	43.70	17.00	0.71	4
	MM 76.20	19.05	286.00	381.00	355.00			802.39	1110.00	431.80	18.00	4
14	IN 3.00	0.81	13.08	16.75	15.75	12	1.00"-8	39.84	53.07	18.75	0.63	4
	MM 76.20	20.65	332.25	425.50	400.00			1011.9	1348.0	476.25	16.00	4
16	IN 3.50	1.05	14.81	19.01	19.69	16	1.00"-8	44.60	59.92	21.25	0.91	6
	MM 88.90	26.60	376.25	482.75	500.00			1132.80	1522.0	539.75	23.00	6
18	IN 3.50	1.05	16.46	21.00	16.69	16	1.125"-7	48.03	65.39	22.75	0.75	6
	MM 88.90	26.60	418.00	533.40	500.00			1220.0	1660.9	577.85	19.0	6
20	IN 4.50	1.24	18.50	23.00	23.62	20	1.125"-7	52.28	71.69	25.00	1.10	8
	MM 114.30	31.60	470.00	584.20	600.00			1327.90	1820.9	635.00	28.00	8
24	IN 4.50	1.24	22.44	27.25	23.62	20	1.25"-7	59.92	83.34	29.50	0.98	8
	MM 114.30	31.60	570.00	692.15	600.00			1522.0	2116.8	749.30	25.00	8
30	IN 4.50	1.44	27.50	33.75	28.35	28	1.25"-7	74.21	102.75	36.00	1.18	10
	MM 114.30	36.60	698.50	857.30	720.00			1884.9	2609.9	914.40	30.00	10
36	IN 5.00	1.25	33.50	40.26	36.00	32	1.50"-6	89.17	123.62	42.75	0.98	12
	MM 127.00	31.70	851.00	1022.5	914.4			2264.9	3139.9	1085.9	25.00	12
42	IN 5.00	1.63	38.75	47.00	36.00	36	1.50"-6	114.50	154.25	49.50	1.50	14
	MM 127.00	41.28	984.25	1193.8	914.40			2908.3	3918.0	1257.3	38.10	14
48	IN 6.00	2.00	43.50	53.20	36.00	44	1.50"-6	134.38	178.88	56.00	1.63	18
	MM 152.40	50.80	1104.9	1358.9	914.4			3413.1	4543.6	1422.4	41.28	18

Options available:

- Resilient seat for drip tight shut-off
- Two-way shut off
- Vee-port for throttling service
- Operators such as bevel gear, pneumatic cylinder, electric actuator, etc.
- Control accessories such as positioners, limit switches, etc.

### CONSTRUCTION

#	ITEM	F8112	F8113	F8114
1	BODY	CF8M	CG8M	254 SMO
2	KNIFE	316	317	254 SMO
3	STEM	304	304	304
4	BRIDGE	D.I.	D.I.	D.I.
5	YOKE SLEEVE	BRONZE	BRONZE	BRONZE
6	HANDWHEEL	D.I.	D.I.	D.I.
7	HANDWHEEL NUT	BRONZE	BRONZE	BRONZE
8	STANCHION	303	303	303
9	THRUST WASHER (2"~12")	BRONZE	BRONZE	BRONZE
10	PACKING (NOTE 1)	TEFLON	TEFLON	TEFLON
11	NAME PLATE	ADHESIVE	ADHESIVE	ADHESIVE
12	GLAND FLANGE	CF8M	CG8M	254 SMO
13	STEM COUPLING (NOTE 2)	CF8M	CF8M	CF8M
15	GRUB SCREW	304	304	304
16	STANCHION NUTS	304	304	304
17	GLAND PACKING NUTS	304	304	304
18	COUPLING BOLTS	304	304	304
19	COUPLING NUTS	304	304	304
20	THRUST BEARING (>=14")	BALL	BALL	BALL
21	GLAND PACKING STUDS	304	304	304
22	GREASE NIPPLE	ZINC PLATED	ZINCE PLATED	ZINC PLATED
23	RESILIENT SEAT O-RING	VITON	VITON	VITON

FIG. F8116-Special material of construction.

NOTE 1: O-ring and packing retainer in stuffing box

NOTE 2: Investment cast

## Bi-Directional Knife Gate (Resilient Seat Optional)

### Standard:

ASME (ANSI)

### General Features:

These valves (including resilient seat option) are typically used in the following applications:

- Pulp and paper.
- Municipal.

### Design Standards:

New lightweight epoxy coated hand-wheel standard on valves up to 14".

Bi-directional ring.

Back-up ring facilitates the conversion to 2-way shut off.

Bubble-tight shut-off in both directions (Only for Resilient Seat).

Stopper allows the gate to form a tight seal against the seat.

Flanges match ASME (ANSI) B 16.5 - 150 lb. All come standard with tapped holes and serrated gasket faces.

Special investment cast couplings for each size. Tight tolerances on holes allows for immediate response without hysteresis.

Upper and lower bearings for valves 14" and larger.

Stainless steel stanchions precisely machined for alignment and ease of field retrofit from manual to automated.

Machined surfaces to accept machined stanchions.

VITON "O" ring (Standard).

### Other operators available include:

- Epoxy coated ductile iron handwheel.
- Chain-wheel.
- Bevel gear.
- Pneumatic cylinder.
- Electric actuator.
- Non-rising stem complete with operating nut or handwheel.
- Control accessories such as positioners, limit switches, solenoids, etc.

### Optional "O" rings:

- EDPM.
- AFLAS.
- BUNA.

For special applications contact factory.

### Options Available:

- Resilient seat for drip tight shut-off.
- Vee-port for throttling service.

### Testing and Certification:

All Trueline Knife Gate valves are built and tested in accordance with MSS-SP81 and TAPPI T1S 405-8 specifications. All metal-seated valves meet or exceed seat test requirements. Test data is available on request.

Bubble-tight shut-off in both directions (only for resilient seat).

### Materials:

Full Lug Body: Cast in Various Materials

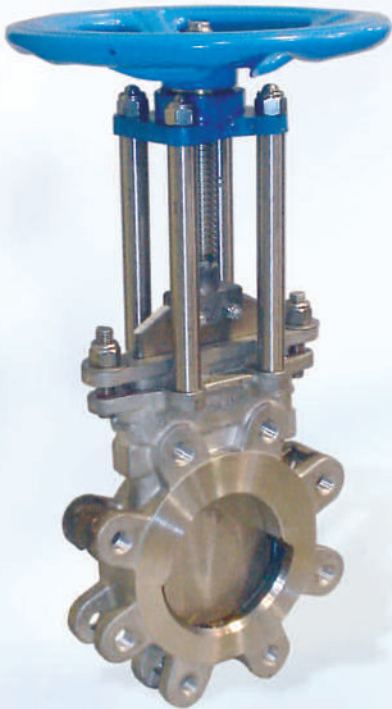
- F8112 - CF8M (316 SST).
- F8113 - CG8M (317 SST).
- F8114 - 254 SMO.
- F8115 - Cast Ductile Iron.
- F8116 - Special Alloys.

### Fully Machined Gate:

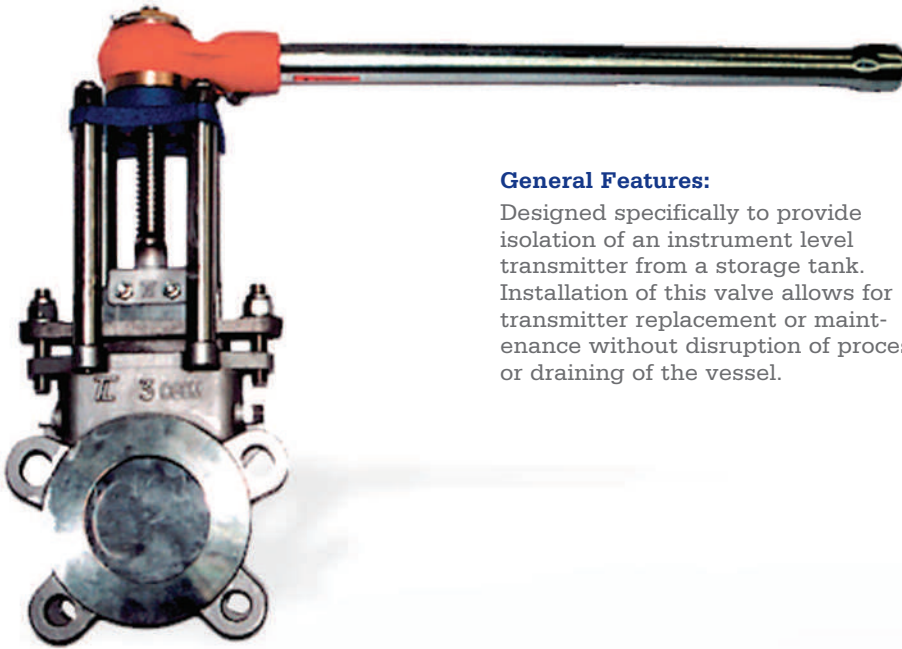
- Available in 316, 317, 254 SMO and other exotic alloys.
- Each gate specially matched to body allowing for tight tolerances.
- All gates have full radius on both sides.

### Dimensions:

Sizes available: 2" ~ 48"



## Transmitter Isolation Valve



### Standard:

ASME (ANSI)

### General Features:

Designed specifically to provide isolation of an instrument level transmitter from a storage tank. Installation of this valve allows for transmitter replacement or maintenance without disruption of process or draining of the vessel.

### Design Standards:

Special Service Full-Port Instrument Knife Gate Valve - Size 3"

Tank side flange permits blind bolting from the vessel exterior. All valves are provided with a ratchet operator which, together with the narrow face to face dimensions, allows the valve to be flush mounted to the vessel and thereby minimizes the dead space between the vessel and transmitter.

### Materials:

Body: CG8M (317 SST).

Gate: CF8M (316 SST).

Teflon impregnated packing and Viton resilient seat.

1/4" flush ports are standard.

The valve is also available in 254 SMO and other exotic alloys.

### Dimensions:

Sizes Available: 3"

## Custom Made Round Port Knife Gate Valves

### Standard:

ASME (ANSI) 150/300 rating available

### Design Standards:

Bi-directional, dual renewable seats.

Low and high pressure as per customer requirements.

ANSI B16.15 bolting pattern standard.

### Materials:

Available in:

- CF8 (304 SST).
- CF8M (316 SST).
- CG8M (317 SST).
- 254 SMO.
- 654 SMO.
- Titanium.
- Hastelloy C276 or C22.
- Carbon Steel and Ductile Iron.

Optional HT-65 or HT-2200 on gate and seats for abrasive processes.

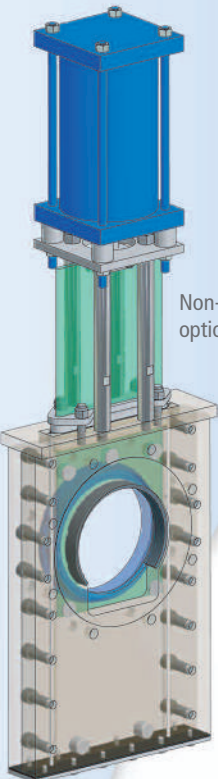
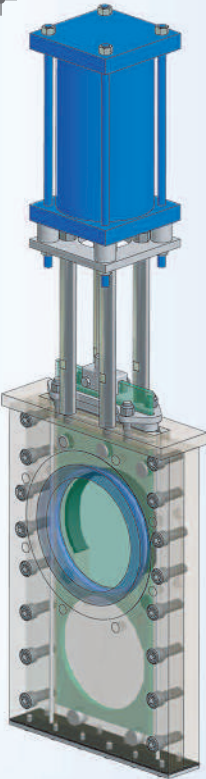
### Dimensions:

Sizes available: 2" ~ 72"





Fully Machined Custom Knife Gate  
Valve Bottom Port Arrangement

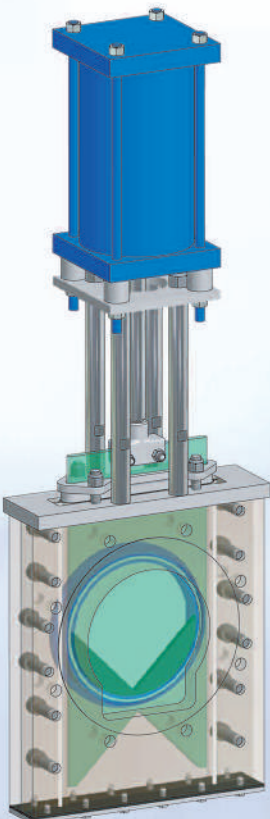
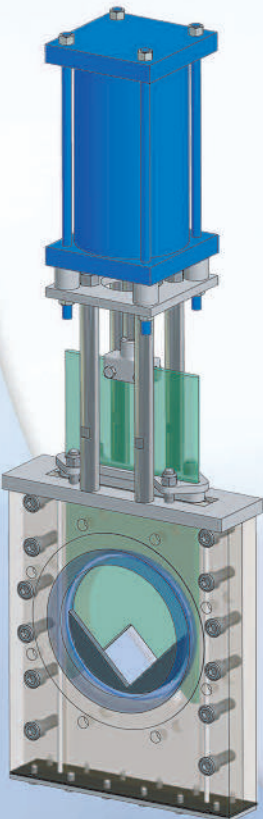
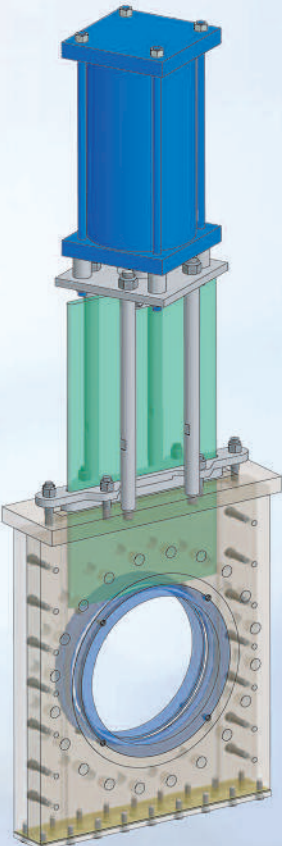
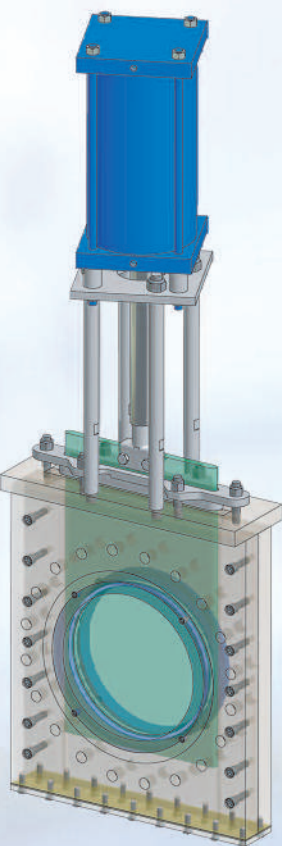


Non-shouldering  
option

Fully Machined F8112 300# Class  
Knife Gate Valve

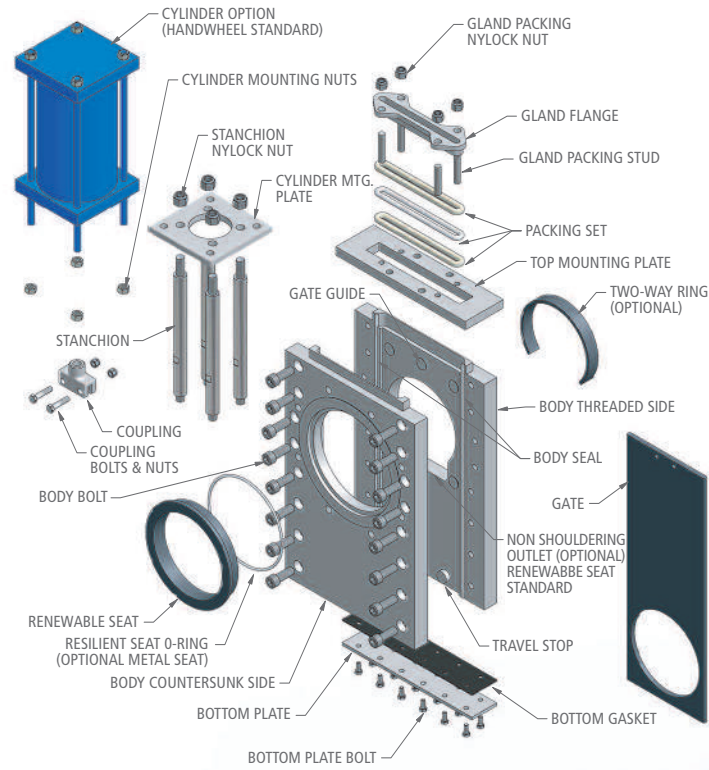
Fully Machined Custom  
"Diamond-Port" Knife Gate Valve

Diamond-Port to provide optimum  
flow control characteristics



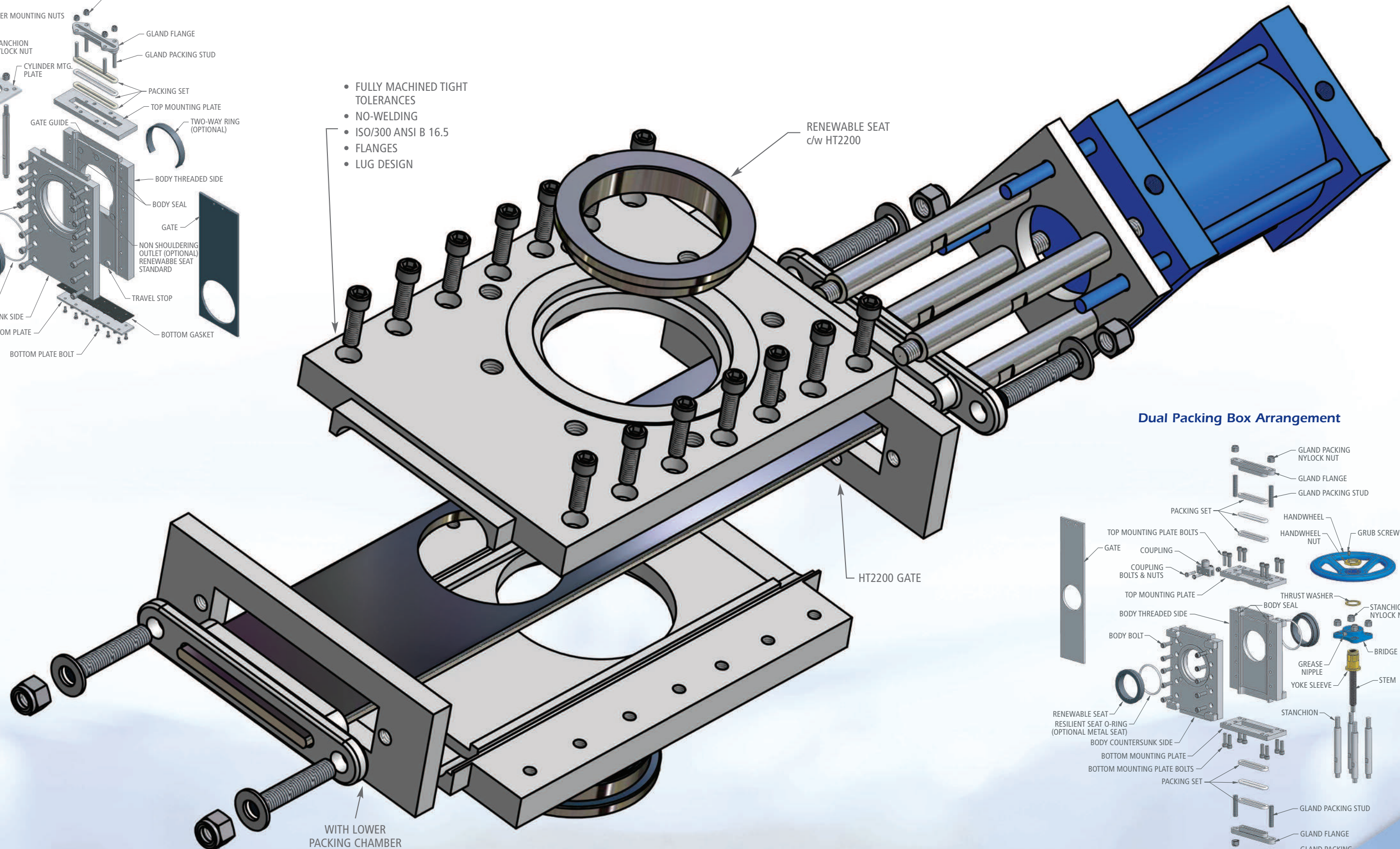


## Bottom Port Arrangement

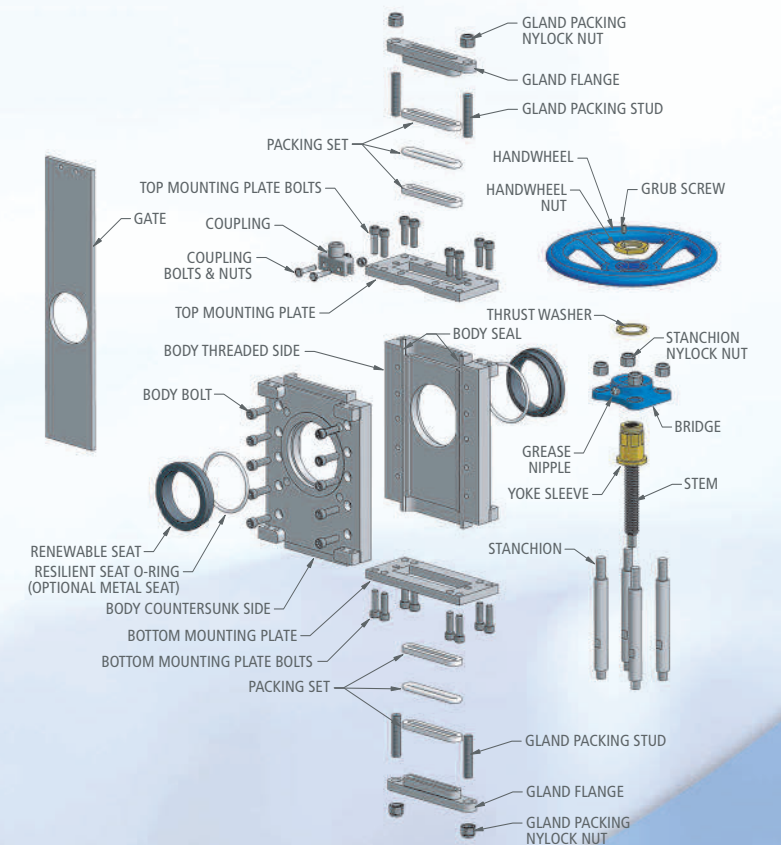


- FULLY MACHINED TIGHT TOLERANCES
- NO-WELDING
- ISO/300 ANSI B 16.5
- FLANGES
- LUG DESIGN

## CUSTOM-MADE HIGH PERFORMANCE SLURRY VALVE



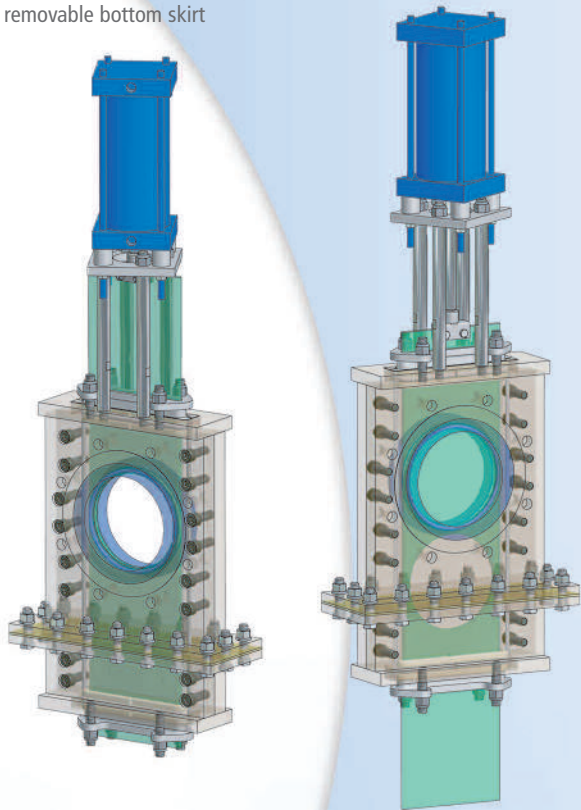
## Dual Packing Box Arrangement



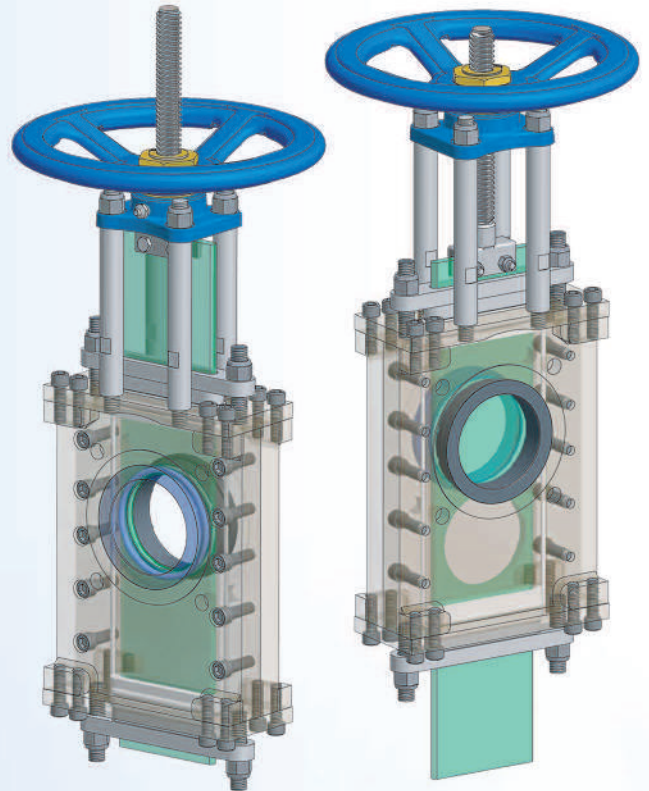


### Fully Machined "O-Port" Knife Gate Valve

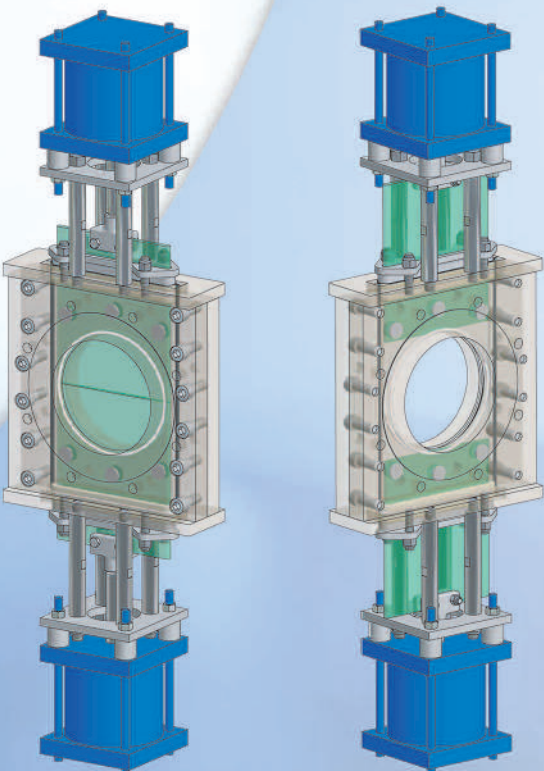
c/w dual packing box arrangement and removable bottom skirt



### Fully Machined Custom Knife Gate Valve Dual Packing Box Arrangement

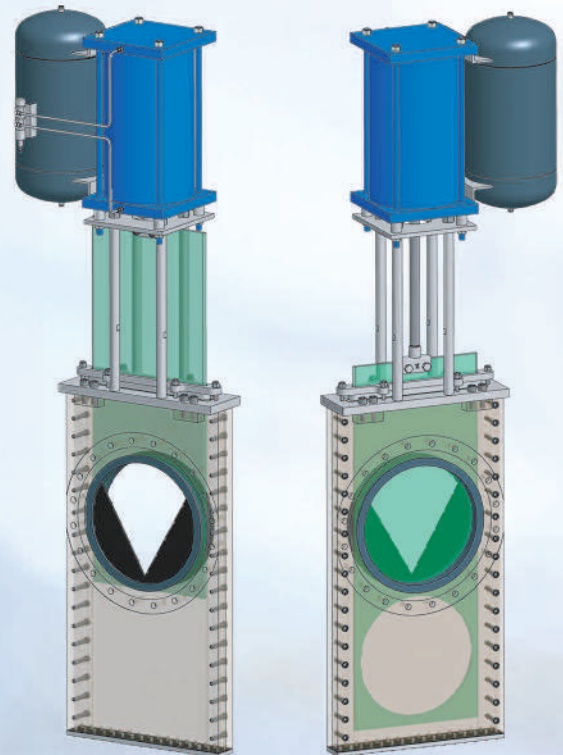


### Fully Machined "Dual Gate" Knife Gate Valve



### Fully Machined Custom "O-Port" Knife Gate Valve

Bi-directional & prepared for horizontal position c/w Vee-port to provide optimum flow control characteristics



## Split Flange

### Standard:

Other

### General Features:

This valve is designed for high-pressure applications up to 150 psi without damaging the integrity of the valve.

In-line maintenance, the adaptor can be removed to clean the valve without removing the body from the main line.

The following are some examples of typical applications:

- High-density stock tower by-pass.
- Heavy slurries.
- High-pressure pump discharge (horizontally mounted).
- Chemical slurries (i.e PVC pellets and other forms of plastics).
- Pulp and paper.
- Petro-chemical.
- Mining

### FULLY BI-DIRECTIONAL TO 150 PSI

O-Port style gate fully protects the seat face in open position. This characteristic increases the service life of the valve.

This valve will close through a static column of material.

### Design Standards:

New lightweight epoxy coated handwheel standard on valves up to 14".

HT-65 treated gate.

HT-65 seat rings.

GFO Packing.

Flanges match ASME (ANSI) B 16.5 - 150 lbs. All come standard with tapped holes and serrated gasket faces.

Special investment cast couplings for each size. Tight tolerances on holes allows for immediate response without hystereis.

Upper and lower bearings for valves 14" and larger.

Stainless steel stanchions precisely machined for alignment and ease of field retrofit from manual to automated.

Machined surfaces to accept machined stanchions.

VITON "O" ring (Standard).

### Other operators available include:

- Epoxy coated ductile iron handwheel.
- Chain-wheel.
- Bevel gear.
- Pneumatic cylinder.
- Electric actuator.
- Control accessories such as positioners, limit switches, solenoids, etc.

### Optional "O" rings:

- EDPM.
- AFLAS.
- BUNA.

For special applications contact factory.

### Testing and Certification:

All Trueline Knife Gate valves are built and tested in accordance with MSS-SP81 and TAPPI T1S 405-8 specifications. All metal-seated valves meet or exceed seat test requirements. Test data is available on request.

### Materials:

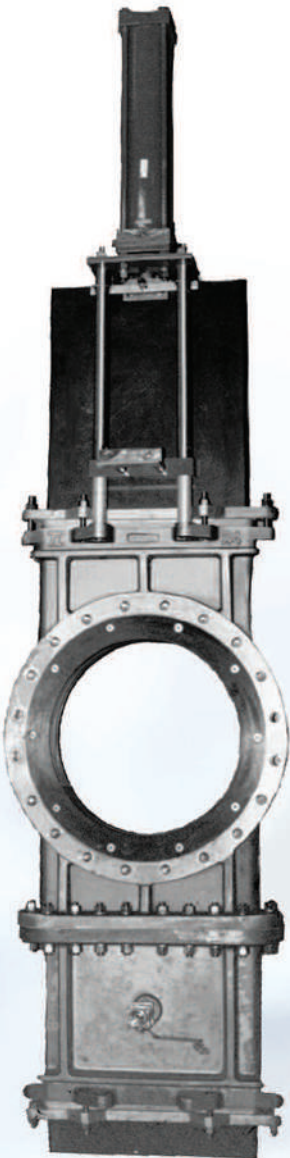
Fully fabricated from heavy plate and sheet.

Available in:

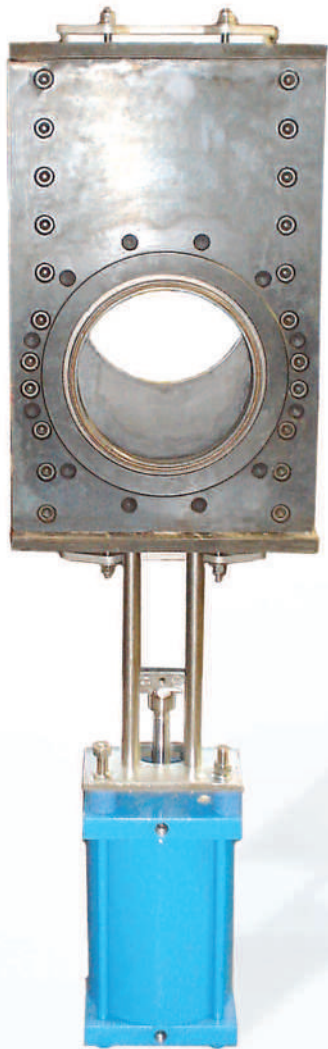
- CF8 (304 SST).
- CF8M (316 SST).
- CG8M (317 SST).
- 254 SMO.
- 654 SMO.
- Titanium.
- Hastelloy C276 or C22.
- Carbon Steel and Ductile Iron.

### Dimensions:

Sizes available: 12" ~ 36"



## Dual Renewable Seats (DRS)



### Standard:

Other

### General Features:

This valve is designed for high-pressure applications up to 150 psi without damaging the integrity of the valve. Wafer style design makes it easy to install between flanges.

The following are some examples of typical applications:

- Heavy slurries.
- High-pressure pump discharge (horizontally mounted).
- Chemical slurries (i.e. PVC pellets and other forms of plastics).
- Pulp and paper.
- Petro-chemical.
- Mining.

### Design Standards:

This valve is specially designed with no cavities to prevent stock build-up. Bubble-tight sealing is achieved in both directions. Pressure design is 50, 75, 100, and 150. You must specify your design pressure.

### Other operators available include:

- Epoxy coated ductile iron handwheel.
- Chain-wheel.
- Bevel gear.
- Pneumatic cylinder.
- Electric actuator.

- Non-rising stem complete with operating nut or handwheel.
- Control accessories such as positioners, limit switches, solenoids, etc.

### Optional "O" rings:

- EDPM.
- AFLAS.
- BUNA.

For special applications contact factory.

### Options Available

- Gate guards.

### Materials:

Fully fabricated from heavy plate and sheet.

Available in:

- CF8 (304 SST).
- CF8M (316 SST).
- CG8M (317 SST).
- 254 SMO.
- 654 SMO.
- Titanium.
- Hastelloy C276 or C22
- Carbon Steel and Ductile Iron.
- Bronze.
- Aluminum
- Titanium.

Other exotic alloys upon request

### Dimensions:

Sizes available: 2" ~ 48"

## Stock Sampling Valve



### Standard:

ASME (ANSI)

### General Features:

Operated by a simple spring loaded lever operator for quick and precise action.

### Applications:

- Pulp and paper.

### Materials:

Body: CF8M (316 SST).

### Dimensions:

Sizes available: 2"



## HT-65

### Standard:

Other

### General Features:

#### Introduction

The process HT-65 provides excellent corrosion resistance and cosmetic appeal for ferrous-based components. The treatment also enhances the other engineering properties, i.e. wear resistance, lubricity and fatigue strength. This process replaces Chromium and other critical materials where plating has traditionally been used for wear, corrosion resistance and improved cosmetic appearance.

#### The Process

HT-65 is a thermal-chemical diffusion process wherein ferrous parts are heat treated at 1050°F through an appropriate formulation to assure the interface of the materials being processed. The intrinsic properties of HT-65 is it's relatively low coefficient of friction as well as the degree of lubricity in both the dry state as well as under lubrication. This highly lubricious process prevents stainless materials from galling and once HT-65 is applied the surface becomes Rockwell 70 in hardness on the "C" scale.



### Description

The HT-65 layer is highly resistant to wear, seizure and corrosion. It is durable practically up to the temperature at which it was generated. Typically, HT-65 penetrates the ferrous matrix to depth of 0.020" to 0.040" to form the diffusion zone, austenitic steels develop an extremely hard and complex compound zone distinctive from all other ferrous metals, typically 0.0007" to 0.0009" thick, and a diffusion zone approximately 0.003" deep.

### General Applications

HT-65 may be applied to i.e. valve parts, ball seats, knife gates, sleeve bearings, impellers and all metal parts to prevent premature wear from friction and galling from thermal expansion in high temperature applications.

### Benefits

HT-65 components have excellent sliding and running properties. A very low coefficient of friction minimizes the incidence of abrasion due to wear and galling (i.e. metal to metal welding). The scuff load depending on the material pairing is 2-5 times better.

## HT2200

HARDNESS FROM 1700 VICKER  
~2200 VICKER or 2200 KNOOP (no S)-  
TEMPERATURE RANGE: 1600°F or 872°C

### General Features:

HT2200 gives valve components a considerably longer service life that the traditional processes used to date. The improvements in wear resistance, which are achievable with surface treatment techniques, such as case hardening, nitriding or armouring are often inadequate for modern manufacturing methods and their products. The development of the HT2200 process to render it applicable on a commercial scale has filled a gap in the range of techniques available for the heat treatment of metal surfaces.

HT2200 is a process during which diffuses into the metal surface, particular characteristics of the iron HT2200 are the extreme hardness, approx. HV=2000. HT2200 is carried out at a temperature of 800°C to 1000°C.

Hardness is frequently also regarded as an indication of high wear resistance. Apart from the hardness however, there are a number of factors such as the surface finish, tendency to cold welding and nature of the loading, which are also decisive in

judging the wear properties, the optimum feature of HT2200 is the extreme hardness, HV=1700-250.

As in the case with all diffusion processes, an increase in volume is to be expected during the formation of HT2200 layers. Dimensional changes are mainly determined by the case depth obtained and the material used. The increase in volume generally about 20 to 25% of the case depth. On high alloyed material it is much greater and can be up to 80% of the case depth. As heating up and cooling down are slow procedures, changes in the shape of the HT2200 parts are usually only slight. An almost distortion free treatment is possible even with long slim parts.

The corrosion resistance of low alloyed and unalloyed steels is improved by HT2200. If they are immersed in hot 18% hydrochloric acid it is possible to completely dissolve the matrix beneath the HT2200 layer, the layer itself remaining intact. On the other hand, the resistance to oxidizing acids such as nitric acid (HNO<sub>3</sub>) is poorer.

## Check Valves

### Flanged - F6112

**Standard:**  
ASME (ANSI)

**Materials:**

Available in:

- CF8M (316 SST).
- CG8M (317 SST).
- 254 SMO.
- Titanium.

Many other options and material combinations are available.

### IMPORTANT

When ordering the seat and disk assembly only, make sure you select the seat and disk one size smaller than your line size (i.e. 4" assembly for 6" line).



### Flanged - F6110

**Standard:**  
ASME (ANSI)

**General Features:**

Check Valve

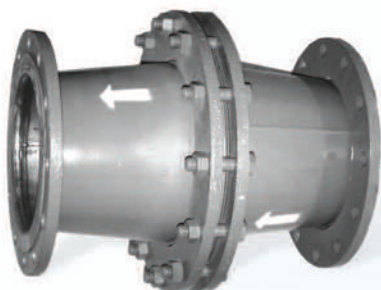
150 lb. Bolting pattern

**Materials:**

Available in:

- CF8M (316 SST).
- CG8M (317 SST).
- 254 SMO.
- Titanium.

Many other options and material combinations are available.



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