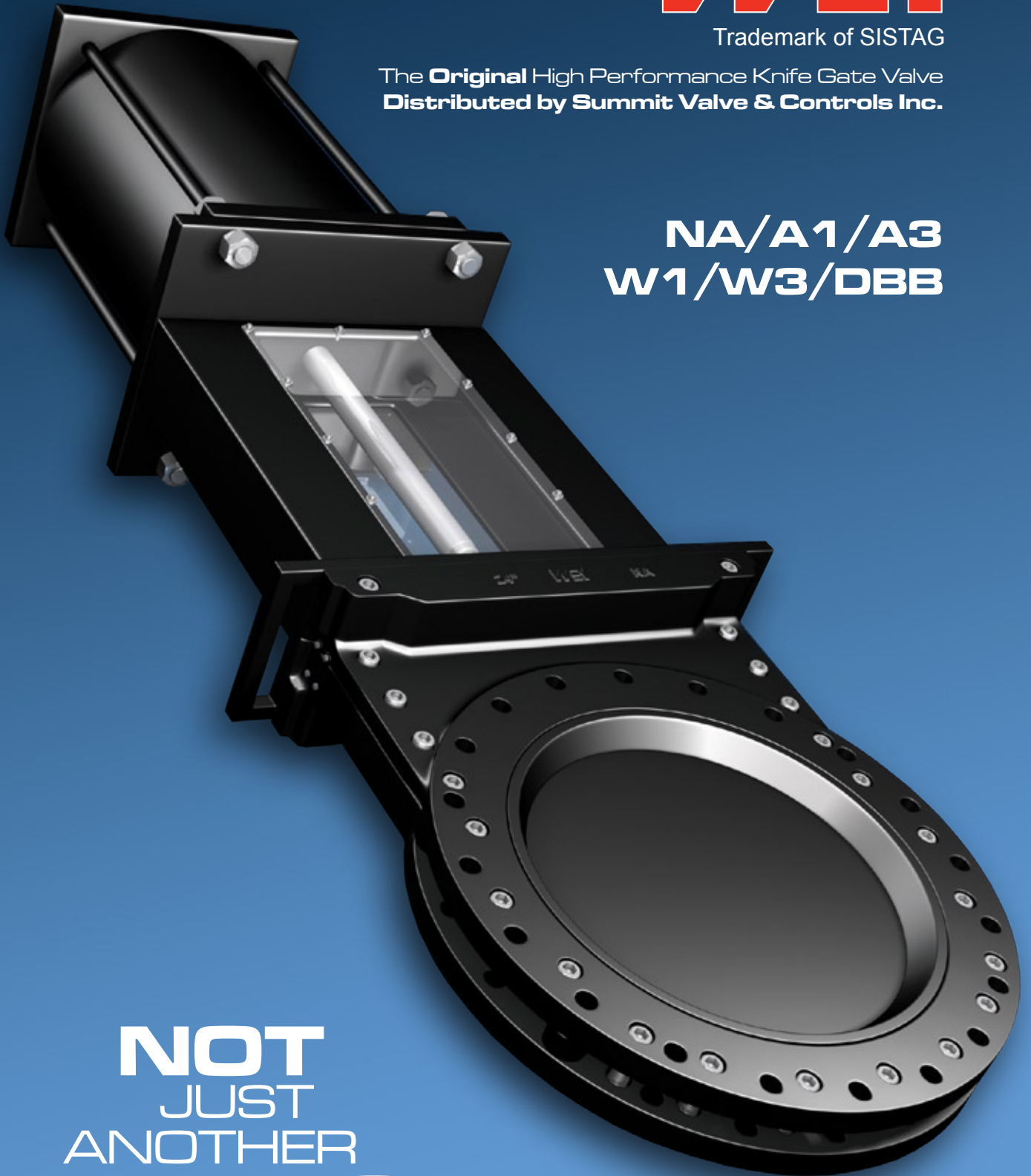


WEY®

Trademark of SISTAG

The **Original** High Performance Knife Gate Valve
Distributed by **Summit Valve & Controls Inc.**

NA/A1/A3
W1/W3/DBB

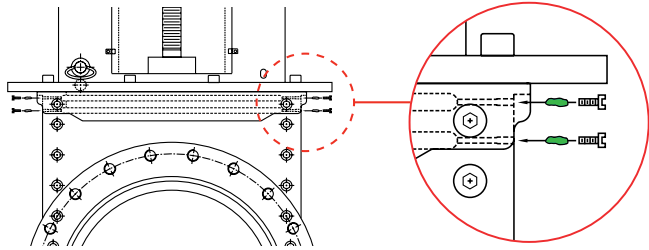


NOT
JUST
ANOTHER
KNIFE GATE
VALVE

COMPARE THESE UNIQUE FEATURES

- 1** Totally enclosed heavy-duty bonnet
- 2** Lexan window for position indication
- 3** Non-rising stem (manual actuation - NA model only)
- 4** Proximity switches
- 5** Lifting lugs
- 6** TFE packing (re-packable while in service and under pressure) **SEE ILLUSTRATION A**
- 7** Heavy-duty body design conforming to MSS SP-135, MSS SP-81 or customer specified face to face dimensions
- 8** Reduced chest cavity (prevents jamming)
- 9** Type 17.4-PH stainless steel gate
- 10** ANSI 150 or 300 flange bolt pattern
- 11** Replaceable ni-hard wear ring
- 12** XYGOO-II coated body & gate
- 13** Lock-out pins
- 14** Handwheel, manual bevel gear, hydraulic, pneumatic or electric actuators
- 15** Self flushing contoured body bore
- 16** Dual heavy-duty top transverse seal with upper & lower scraper blades (low temperature viton seal material) (**SEE ILLUSTRATION B**)
- 17** Gate guided for full length of stroke for bi-directional bubble-tight shut-off (**SEE ILLUSTRATION C**)
- 18** Solenoid valves or positioners (**NOT SHOWN**)

A

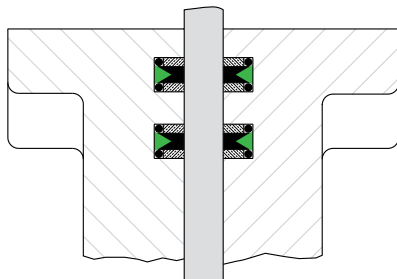


Section of transverse seal illustrating how sealing compound is inserted into chamber to repack valve while valve is in service.

B

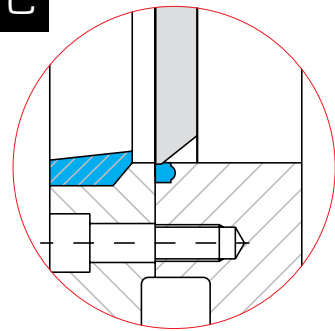
Resilient transverse seal

Various elastomeric seal materials available. Seal includes compression loaded scraper blades to wipe gate clean and protect seal. Repackable in service and under pressure/vacuum.



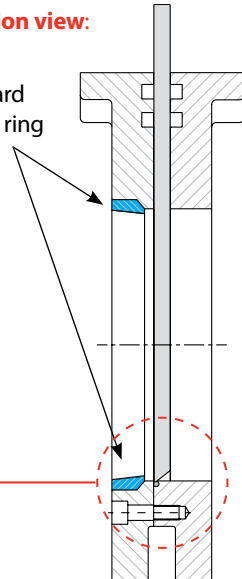
(Dual scraper shown)

C



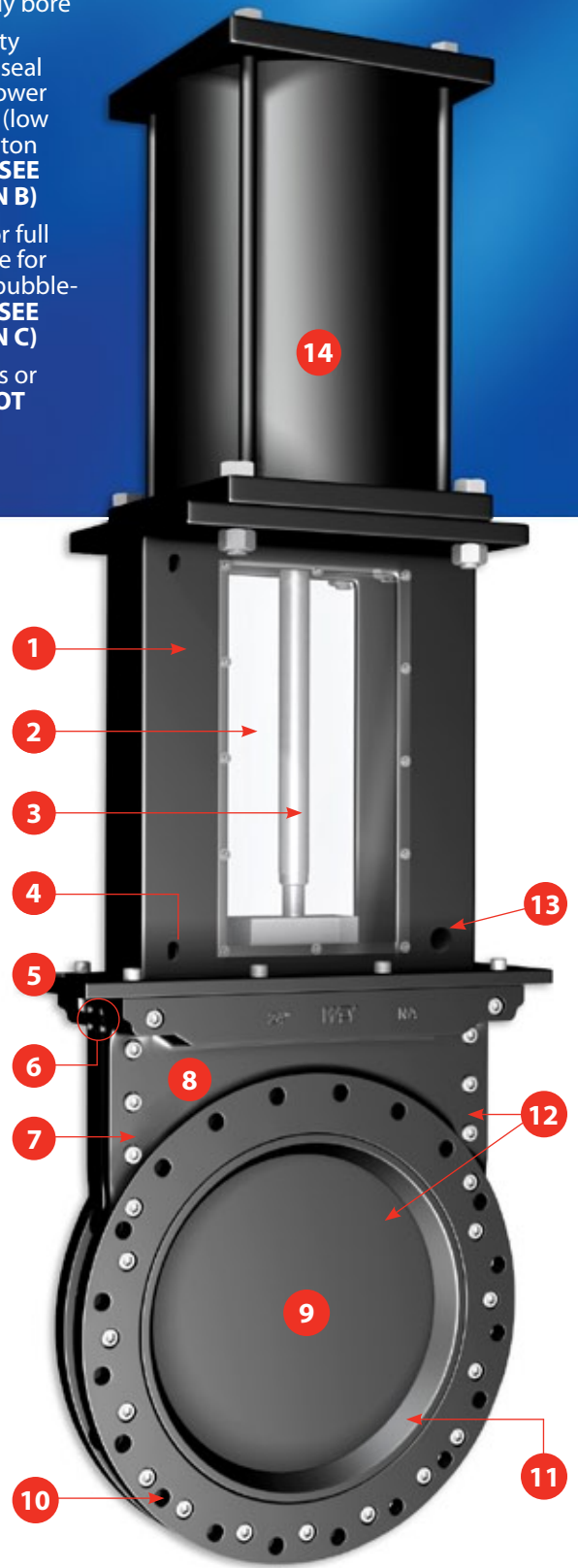
Section view:

Ni-hard wear ring



D

Section view: Mechanically retained resilient seal insures bubble-tight shutoff with pressure on either side of gate. Seal will not pull out of specially machined groove.



BODY STYLES

Model NA: 2" to 36", ANSI 150 flanges
MSS SP-81-2006a face-to-face dimensions.

Model A1: 2" to 42", ANSI 150 flanges
Model A3: 3" to 42", ANSI 300 flanges
WEY face-to-face dimensions.

Model DBB-D1: ANSI 150 flanges
Model DBB-D3: ANSI 300 flanges
WEY face-to-face dimensions.

Model W1: 3" to 42", ANSI 150 flanges
Model W3: 3" to 42", ANSI 300 flanges
MSS SP-135-2006 face-to-face dimensions.

Raised or flat face flanges are available. Threaded flange bolt holes are standard. Drill through flange bolt holes are optional.

VALVE SIZING

VALVE SIZE	O-PORT (Cv)	HEADLOSS (Ft. of pipe)	V-PORT (Cv)	HEADLOSS (Ft. of pipe)
2"	220	2.2	185	3.7
2.5"	350	2.7	295	4.8
3"	500	3.3	425	6.0
4"	960	4.3	750	8.1
6"	2,220	6.5	1,680	14.1
8"	4,120	8.7	3,000	20.0
10"	6,600	10.8	4,700	24.0
12"	9,700	13.0	6,800	30.0
14"	14,200	15	9,250	32.0
16"	18,800	17.0	12,000	35.0
18"	24,200	19.5	15,200	38.0
20"	30,200	22.0	18,750	42.0
24"	43,500	26.0	27,250	54.0
30"	69,000	33.0	42,500	70.0
36"	101,000	39.0	61,000	88.0
42"	139,000	52.0	82,500	117.0

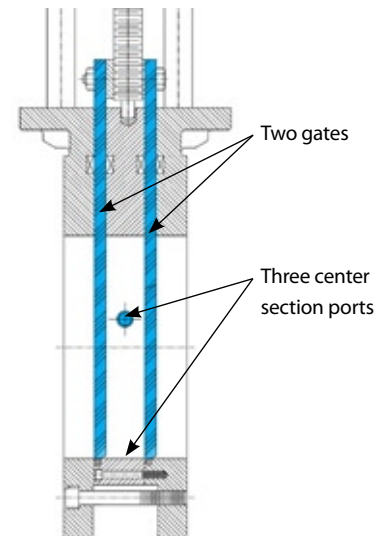
Cv = Flow coefficient = Flow through valve in USGPM at a 1 PSI pressure differential

ASME/ANSI CLASS RATINGS

SIZE	BODY	CLASS
2" to 36"	NA	125/150
3" to 42"	A1	125/150
3" to 42"	A3	250/300
2" to 36"	W1	150
2" to 36"	W3	300
2" to 36"	DBB-D1	150
2" to 36"	DBB-D3	300

OPTIONAL DBB CONFIGURATION

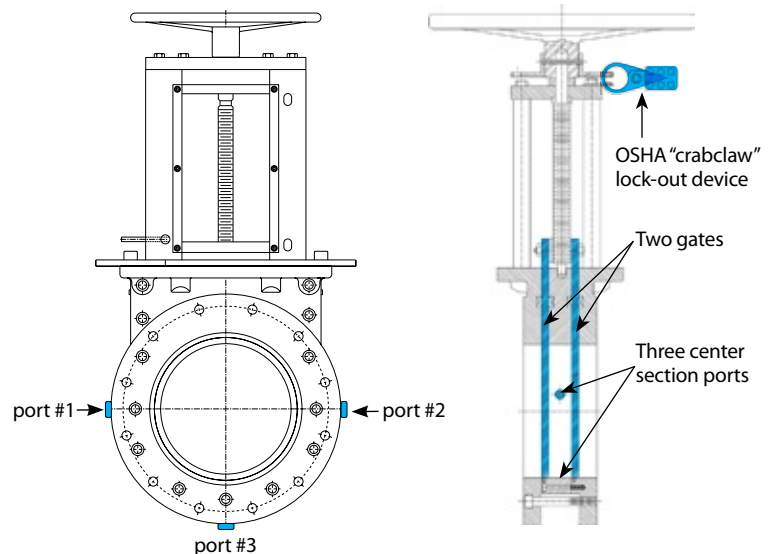
The unique WEY model DBB serves as both a Double Block & Bleed valve and a line blind. This unique design has two gates operated by one actuator. The WEY Model DBB reduces the number of valves required for a traditional double block & bleed application. Reducing the number of valves required eliminates additional leak paths due to multiple flange connections and costs associated with extra valves and piping requirements. The unique features of the standard single gate model are incorporated in the DBB valve.



THREE METHODS OF PROTECTION

1. Vent center section to atmosphere.
2. Connect center section to flush or purge.
3. Pressurize center section to pressure higher than either side of the valve.

Note: leak detector ("sniffer") can be used with any of the three protection options.



BODY PRESSURE RATINGS

BODY RATING	MATERIALS OF CONSTRUCTION
Class 125/250	Cast iron & cast ni-resist (ASME/ANSI B16.1)
Class 150/300	Ductile iron & ductile ni-resist (ASME/ANSI B16.42) Carbon steel & steel alloys (ASME/ANSI B16.34)

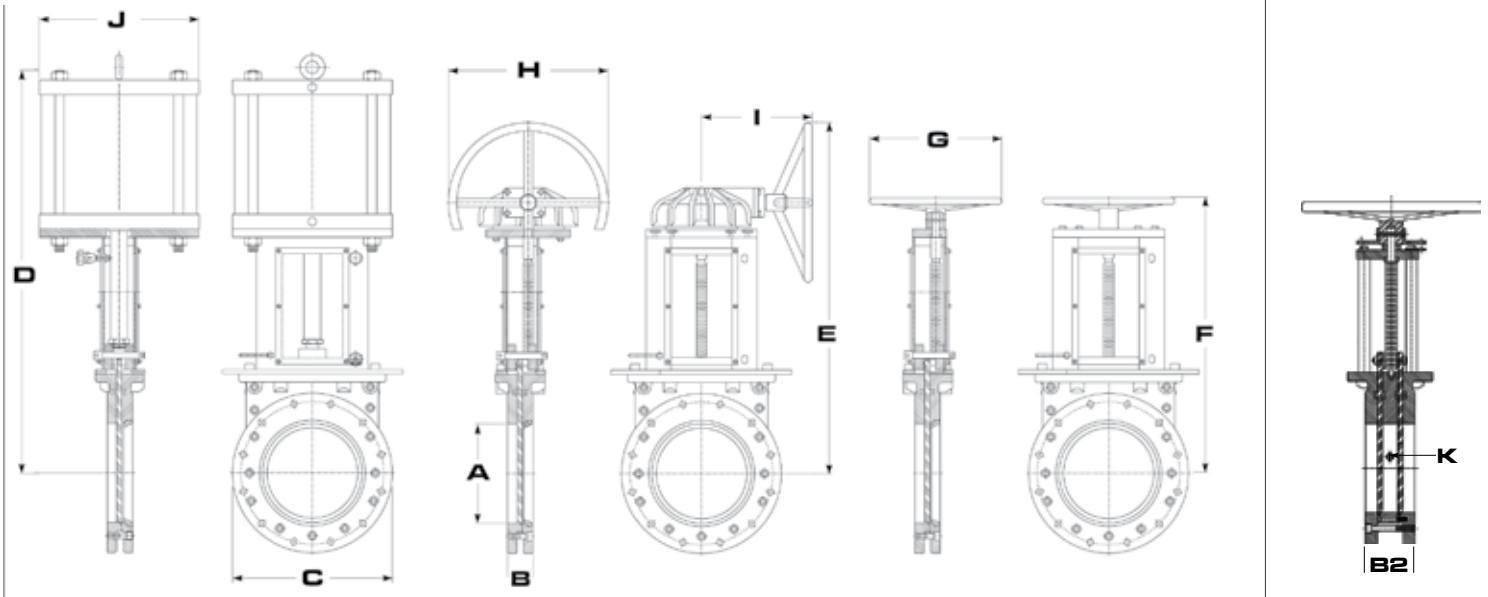
TEMPERATURE: *The operating temperature must not exceed the elastomer maximum temperature rating.*

(for example: Nitrile/Buna N = 180° F, EPDM = 250° F, FKM/Viton = 400° F, Aflas = 500° F)

Not Just Another Knife Gate Valve

DIMENSIONS

WEY-OSKG-2010-08



CYLINDER

BEVEL GEAR

HAND WHEEL

DBB***

J = This dimension varies with cylinder size. Please consult your sales representative for recommended cylinder size.

Flange bolting: Quantity, bolt circle diameters, flange bolt threads are as per ASME B16.5 Class 150 and 300 (NPS less than or equal to 24"), and ASME B16.47 Series A Class 150 and 300 (NPS greater than 24"). Optional drill through flange bolt holes are available.


Consult Wey for depth and number of blind tapped holes in chest area of valve.

VALVE SIZE		A	B Single gate design					B2 Double block & bleed		D		E		F	G	H	I	K
IN.	MM		MSS SP-81	Wey standard face to face		MSS SP-135		DBB D1	DBB D3	NA/A1/W1	A3/W3	NA/A1/W1	A3/W3**	NA/A1/W1				Vent Port Size (NPT)
			NA	A1	A3	W1	W3											
2"	50	2.00	1.88	2.38	-	2.75	2.75	3.60	-	13.5	-	-	-	10	7.38	-	-	-
3"	80	3.13	2.00	2.75	2.75	4.00	4.00	3.22	4.28	16.5	21.5	-	21.5	13.5	7.38	12	-	.38
4"	100	4.00	2.00	2.75	2.75	4.12	4.12	3.42	4.28	20	24	-	24	15.5	7.38	12	-	.38
6"	150	6.00	2.25	3.25	3.15	2.50	4.12	3.94	4.92	25.5	30	-	28	20	9.88	12	-	.50
8"	200	7.88	2.75	3.54	3.54	2.88	4.63	4.34	5.55	34	35.5	-	32	24	11.81	12	-	.50
10"	250	9.88	2.75	3.94	3.94	3.12	5.38	4.88	6.21	38.5	42	-	35	26	11.81	12	-	.50
12"	300	11.88	3.00	4.33	4.33	3.25	5.63	5.17	6.85	48	53	-	44.5	31	15.75	18	-	.50
14"	350	13.88	3.00	4.72	4.72	3.62	6.25	5.68	7.55	52.5	56	43.5	46.5	34	15.75	18	13.25	.50
16"	400	15.75	3.50	4.72	4.72	3.75	6.63	6.18	7.55	58	61	48.5	52	39	15.75	18	13.25	.50
18"	450	17.75	3.50	5.51	5.51	4.12	7.00	8.37	8.82	66	68	52.5	55.5	43	19.75	18	13.25	.50
20"	500	19.75	4.50	5.90	5.90	4.50	7.38	8.80	9.48	75.5	79	56	62	46.5	19.75	24	14.75	.50
24"	600	23.63	4.50	6.69	6.69	5.00	8.38	9.76	10.82	85.5	89	66	71.5	56.5	19.75	24	14.75	.50
26"	650	25.63	-	7.08	7.08	6.75	8.50	11.26	11.53	96.75	97	-	-	-	-	-	-	.50
28"	700	27.56	-	7.48	7.48	7.12	10.00	11.69	12.11	100.5	102	-	-	-	-	-	-	.50
30"	750	30.00	4.62	8.26	8.26	7.38	10.50	13.03	13.38	102.5	107	-	-	-	-	-	-	.50
32"	800	-	-	-	-	8.12	11.50	-	-	102.5	107	-	-	-	-	-	-	.50
36"	900	35.44	4.62	9.84	9.84	8.88	12.00	-	-	112.5	133	-	-	-	-	-	-	.50
42"	1050	41.34	-	11.00	13.78	-	-	-	-	142	160	-	-	-	-	-	-	.50

Consult factory for valve sizes 48"-96" dimensions. **Dimensions shown in inches**
 * NA model conforms to TAPPI and MSS SP81 face-to-face standards in sizes 2" to 24".
 ** Manual A3 models have a rising stem, the dimensions shown account for the stem at it's highest point.
 *** All dimensions for the DBB valve are identical to the standard valve except for B2 and K.
Important note: All dimensions subject to change, consult factory for certified dimensions.

WEY[®]
VALVE, INC.
 A member of SISTAG Group
 P.O. Box 387
 Nettleton, MS 38858 USA
 Phone: 662-963-2020
 Fax: 662-963-2025
 Visit our web site @ www.weyvalve.com

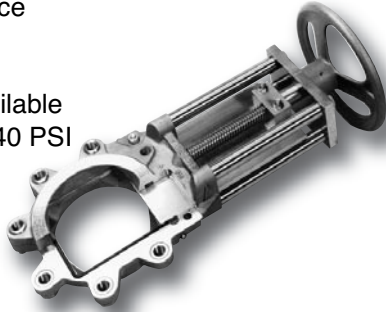
DISTRIBUTED BY: Summit Valve and Controls Inc.
 5304-68 Avenue Phone: 780-468-6900
 Edmonton, Alberta Fax: 780-468-1400
 T6B 3M4 www.summitvalve.com



TOP 10 REASONS TO CHOOSE



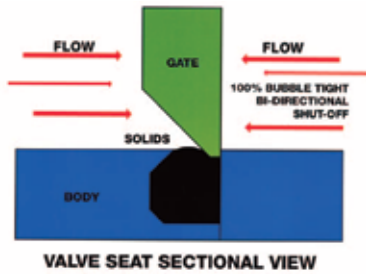
- 50 Years Proven High Performance Design
 - Worldwide Service
 - All Industries
 - Sizes 2" to 96"
 - All Materials Available
 - Pressures to 1440 PSI



- Tightest Shut-off in the Industry

Bi-Directional Zero cc/min from 28" HG Vac to Full Pressure Rating (In-Line and to Atmosphere)

EXCEEDS ANSI CLASS VI SHUT-OFF



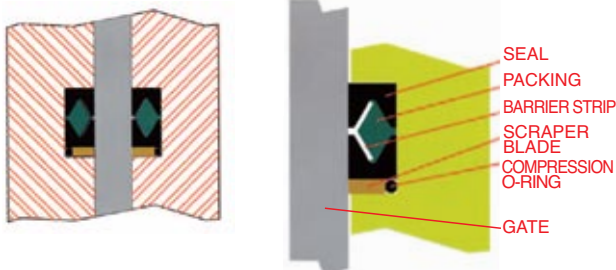
- TRANSVERSE SEAL**

Re-Packable under Pressure

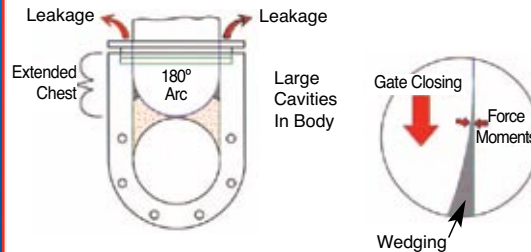


- TRANSVERSE SEAL** Both Sides of Gate

TRANSVERSE SEAL Compensates For Wear

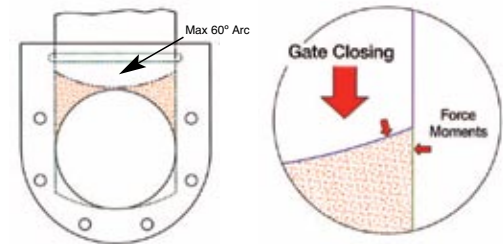


Ordinary Knife Gate Design Problem



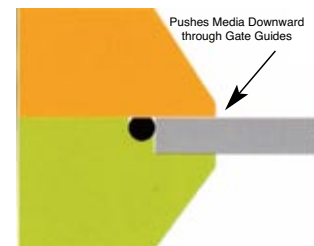
SOLUTION: Wey Valve's Unique Self-Cleaning Design

- Reduced Chest Maximum 60° Arc on Gate



- Tight Tolerance

- Gate Guided for Full Length of Stroke



- Contoured Bore Promotes Self-Cleaning

Solids pushed ahead of gate are flushed out as velocity increases and gate tip moves into open relief areas in lower bore. Seat is flush fitted with bottom of bore leaving no place for solids to pack.



- No Flush Ports Required!

- Absolute Shut-off Guarantee!