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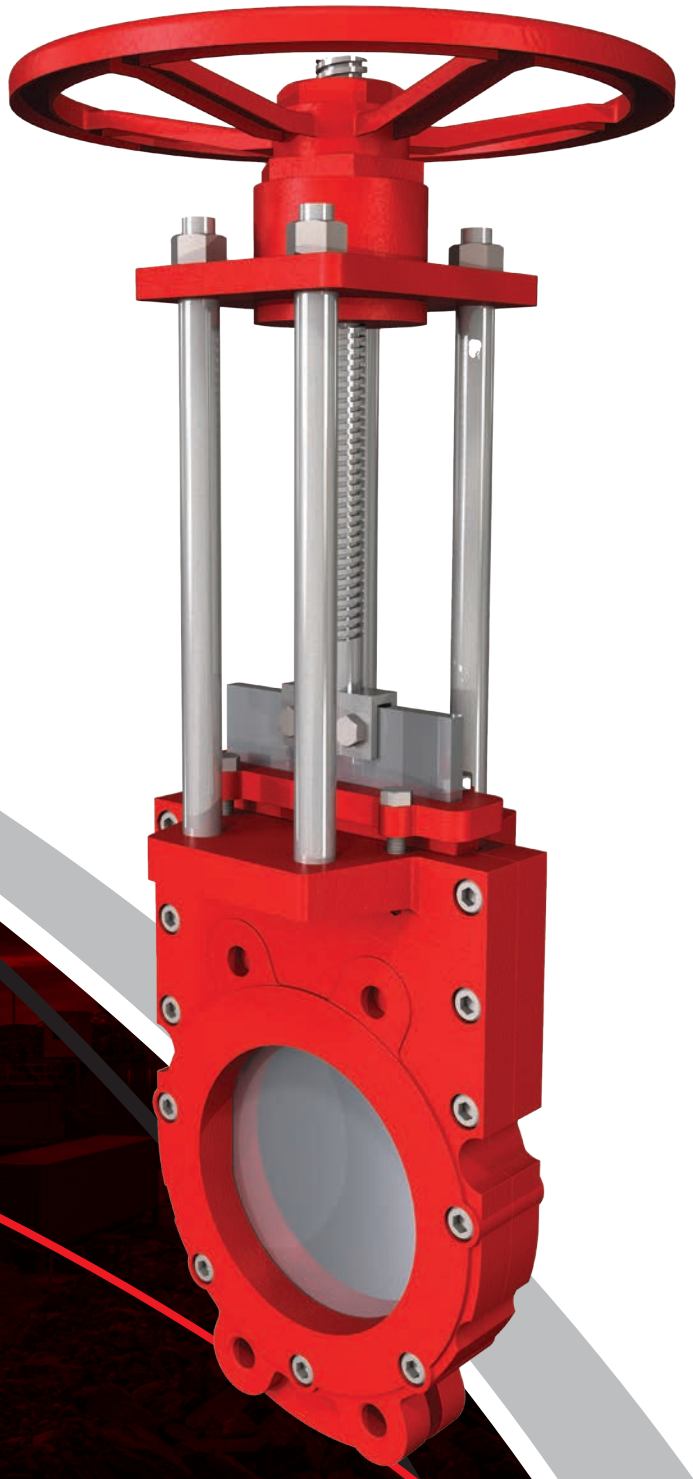
E5200
Light Slurry
Knife Gate Valve

Technical Brochure



Customized valve solutions
for the toughest applications.

E5200 Light Slurry Knife Gate Valve

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E5200 Light Slurry Knife Gate Valve

The E5200 Light Slurry KGV is designed primarily for use in the mining, cement, and power industries. The cavity free, perimeter seat design ensures reliable, bidirectional shut-off in applications that include slurries, coarse powders, and abrasive materials. The E5200 is manufactured with a heavy-duty, ductile iron body for added durability.

Sizes Available

2” to 24”
(51mm to 600mm)

Pressure Rating

250psi (150psi for dead end service)

Temperature Rating

EPDM seat:
–22°F to 250°F (–30°C to 120°C)

Viton™ seat:
5°F to +392°F (–15°C to 200°C)

Design & Construction

- Bidirectional, ductile iron body
- Semi-lugged ASME Class 150 flange
- Polished 304SS gate
- Steel reinforced, EPDM perimeter seat
- Braided PTFE packing with adjustable packing follower
- 304SS stem and stanchions

Standards & Approvals

Design:	MSS SP-81
Flanges:	ASME B16.5
Quality:	ISO 9001:2015
Registration:	CRN

Key Features and Benefits

- Perimeter style seat provides reliable, bidirectional flow/shutoff
- Steel reinforced, replaceable seats ensure zero downstream leakage
- Cavity free design eliminates material buildup
- Heavy-duty, ductile iron body provides added durability

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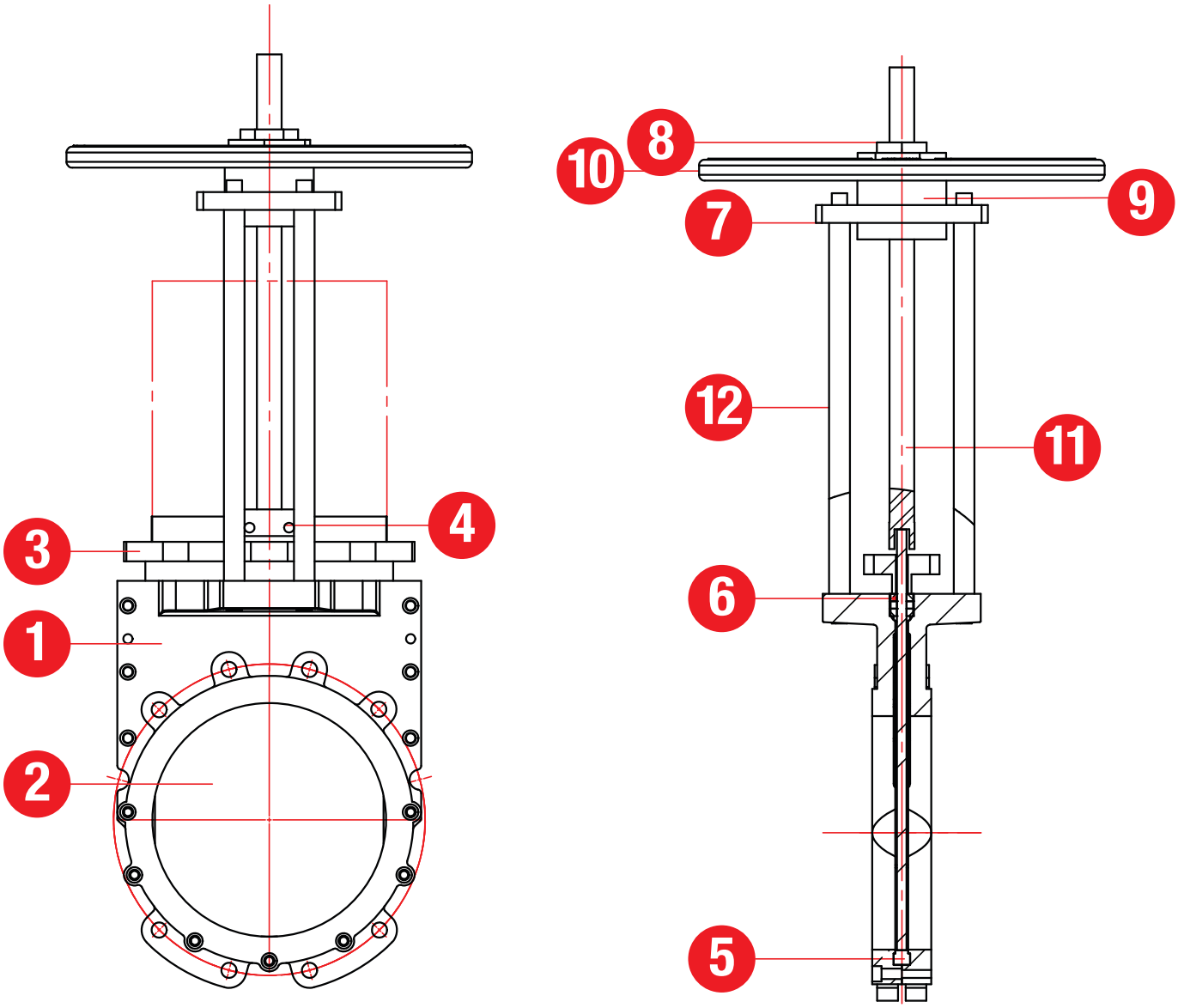
E5200: Material Specification



Material Specification		
#	Part	Material
1	Body	ASTM 395 60-40-18
2	Gate	304SS
3	Packing Follower	ASTM 395 60-40-18
4	Clevis	WCB
5	Seat	Steel reinforced EPDM
6	Packing	Braided PTFE
7	Yoke Bridge	ASTM 395 60-40-18
8	Handwheel Nut	304SS
9	Bushing	Aluminum-Bronze
10	Handwheel	Ductile Iron
11	Stem	304SS
12	Stanchions	304SS

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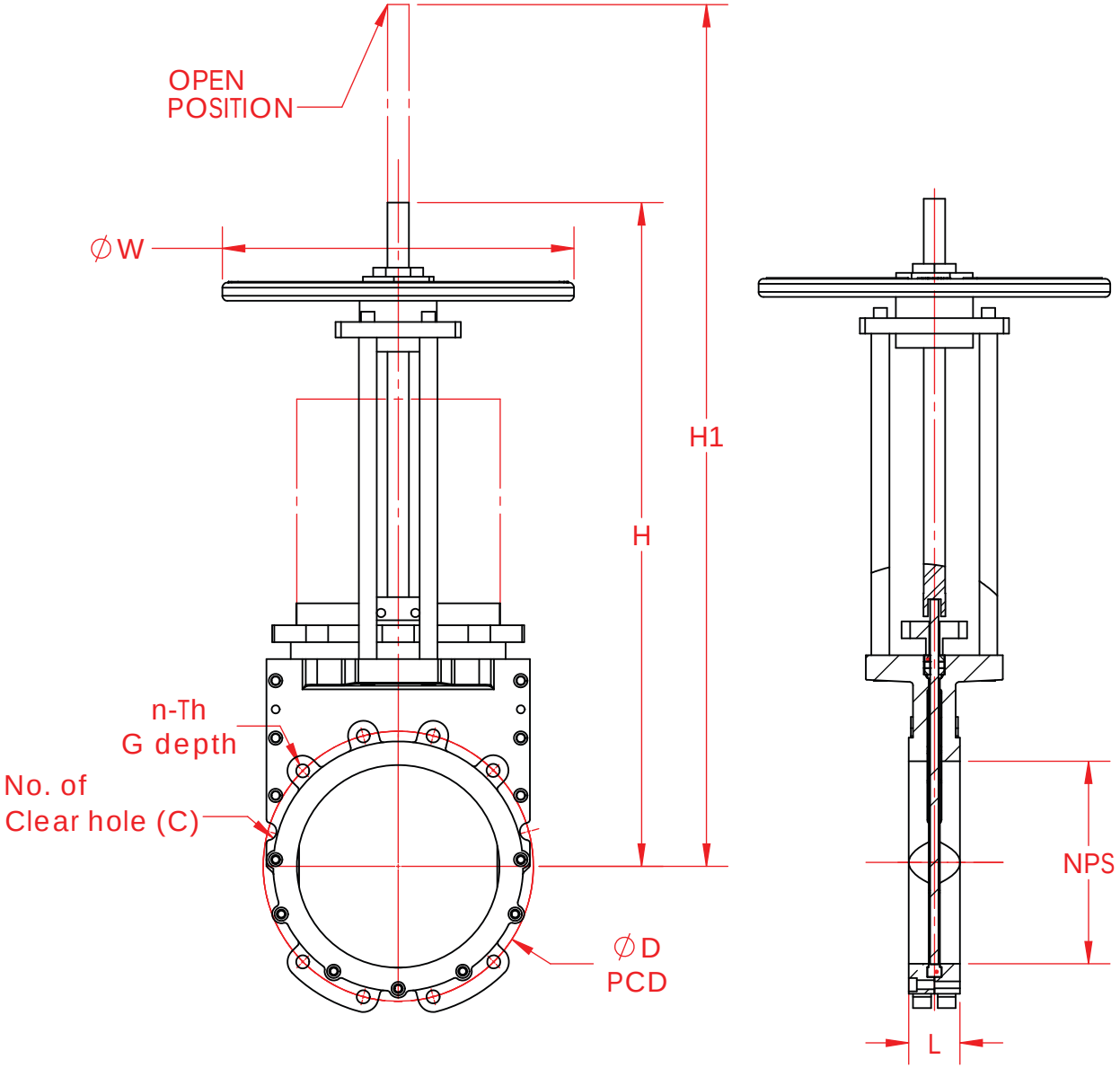
E5200 Knife Gate Valve

2" to 12" with Handwheel



Dimensions									
Size	L	D	n-Th	C	G	H	H1	W	Weight
NPS	in	in	in	in	in	in	in	in	lbs
2"	1.88	4.74	4 x 5/8" - 11	0	0.57	13.27	16.27	7.09	24
2.5"	1.88	5.49	4 x 5/8" - 11	0	0.57	14.06	17.56	7.09	35
3"	2.00	6.00	4 x 5/8" - 11	4	0.80	15.75	19.75	7.87	42
4"	2.00	7.50	4 x 5/8" - 11	4	0.80	18.35	23.35	9.84	42
5"	2.25	8.50	4 x 3/4" - 10	4	0.85	20.91	26.91	11.81	48
6"	2.25	9.51	4 x 3/4" - 10	4	0.85	24.92	31.92	11.81	51
8"	2.75	11.75	4 x 3/4" - 10	4	0.95	29.29	38.29	13.78	121
10"	2.75	14.25	12 x 7/8" - 9	4	1.00	37.0	48.01	15.75	185
12"	3.00	17.01	12 x 7/8" - 9	4	1.00	42.80	55.80	19.69	295

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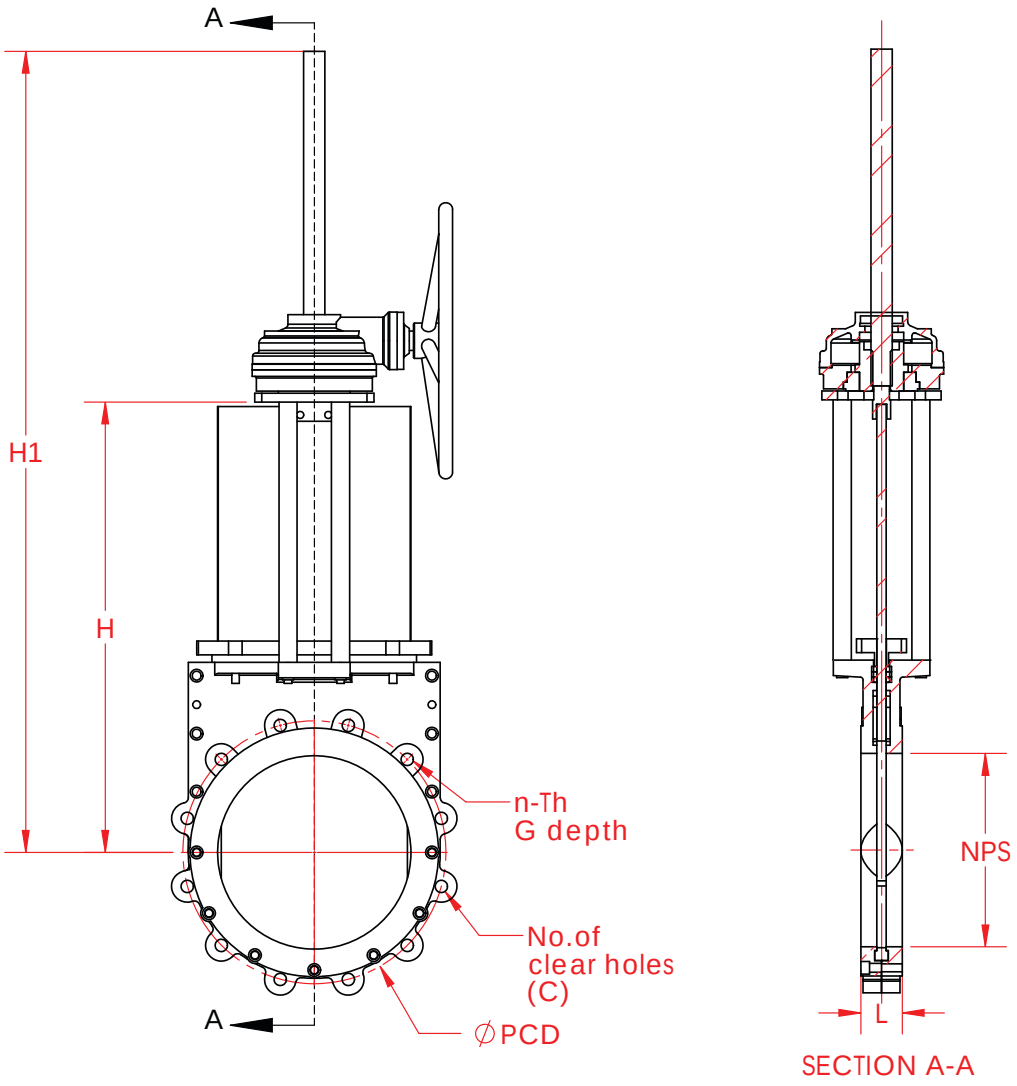
E5200 Knife Gate Valve

2" to 24" with Bevel Gear



Dimensions								
Size	L	D	n-Th	C	G	H	H1	Weight
NPS	in	in	in	in	in	in	in	lbs
2"	1.88	4.74	4 x 5/8" - 11	0	0.57	10.75	17.75	46
3"	2.00	6.00	4 x 5/8" - 11	0	0.80	14.25	22.25	64
4"	2.00	7.50	8 x 5/8" - 11	4	0.80	17.50	26.50	64
5"	2.25	8.50	8 x 3/4" - 10	4	0.85	26.40	36.40	85
6"	2.25	9.51	8 x 3/4" - 10	4	0.85	22.70	33.70	101
8"	2.75	11.75	8 x 3/4" - 10	4	0.95	23.55	36.55	147
10"	2.75	14.25	12 x 7/8" - 9	4	1.00	27.00	42.00	211
12"	3.00	17.0	12 x 7/8" - 9	4	1.00	32.62	49.62	231
14"	3.00	18.74	12 x 1" - 8	4	1.50	35.45	57.45	435
16"	3.50	21.24	16 x 1" - 8	4	1.65	38.25	62.25	578
18"	3.50	22.76	16 x 1-1/8" - 7	6	1.80	41.28	67.82	1027
20"	4.50	25.00	20 x 1-1/8" - 7	6	2.00	44.50	72.50	1472
24"	4.50	29.49	20 x 1-1/4" - 7	6	2.00	51.20	83.20	2100

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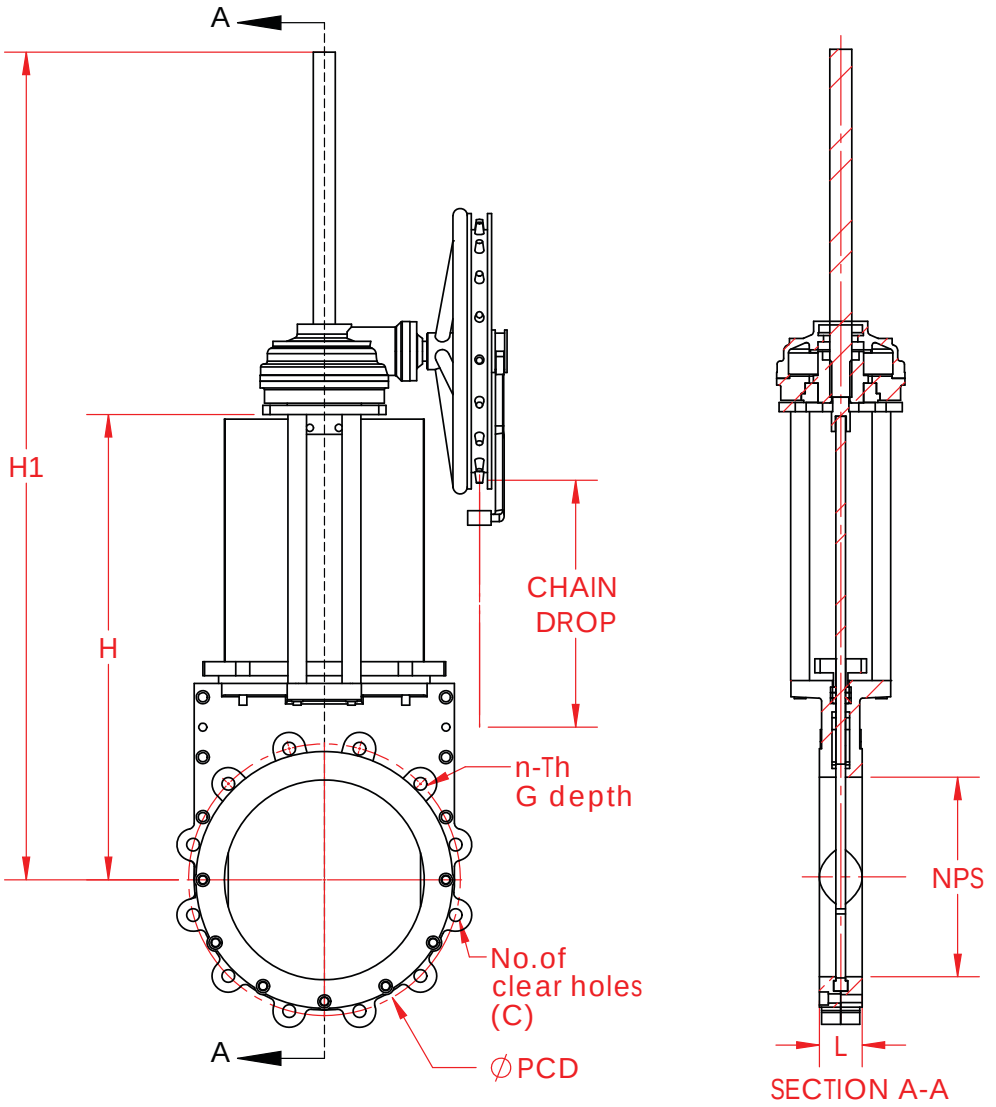
E5200 Knife Gate Valve

2" to 24" with Bevel Gear and Chainwheel



Dimensions								
Size	L	D	n-Th	C	G	H	H1	Weight
NPS	in	in	in	in	in	in	in	lbs
2"	1.88	4.74	4 x 5/8" - 11	0	0.57	10.75	17.75	71
3"	2.00	6.00	4 x 5/8" - 11	0	0.80	14.25	22.25	89
4"	2.00	7.50	8 x 5/8" - 11	4	0.80	17.50	26.50	89
5"	2.25	8.50	8 x 3/4" - 10	4	0.85	26.40	36.40	110
6"	2.25	9.51	8 x 3/4" - 10	4	0.85	22.70	33.70	126
8"	2.75	11.75	8 x 3/4" - 10	4	0.95	23.55	36.55	172
10"	2.75	14.25	12 x 7/8" - 9	4	1.00	27.00	42.00	235
12"	3.00	17.0	12 x 7/8" - 9	4	1.00	32.62	49.62	345
14"	3.00	18.74	12 x 1" - 8	4	1.50	35.45	57.45	460
16"	3.50	21.24	16 x 1" - 8	4	1.65	38.25	62.25	603
18"	3.50	22.76	16 x 1-1/8" - 7	6	1.80	41.28	67.82	1054
20"	4.50	25.00	20 x 1-1/8" - 7	6	2.00	44.50	72.50	1520
24"	4.50	29.49	20 x 1-1/4" - 7	6	2.00	51.20	83.20	2150

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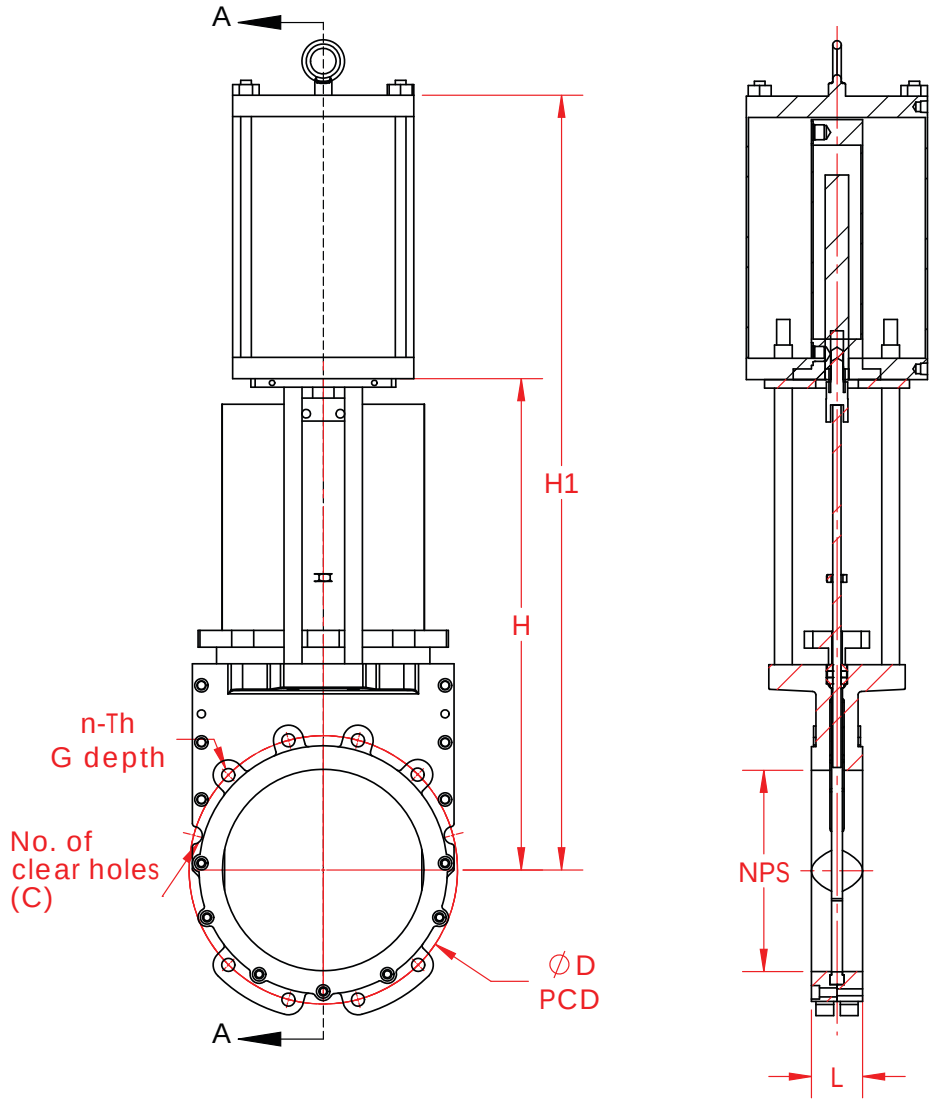
E5200 Knife Gate Valve

2" to 24" with Pneumatic Cylinder



Dimensions								
Size	L	D	n-Th	C	G	H	H1	Weight
NPS	in	in	in	in	in	in	in	lbs
2"	1.88	4.74	4 x 5/8" - 11	0	0.57	10.75	17.75	37
3"	2.00	6.00	4 x 5/8" - 11	0	0.80	14.25	22.25	62
4"	2.00	7.50	8 x 5/8" - 11	4	0.80	17.50	26.50	63
5"	2.25	8.50	8 x 3/4" - 10	4	0.85	26.40	31.70	85
6"	2.25	9.51	8 x 3/4" - 10	4	0.85	22.70	34.33	101
8"	2.75	11.75	8 x 3/4" - 10	4	0.95	23.55	37.18	156
10"	2.75	14.25	12 x 7/8" - 9	4	1.00	27.00	37.63	222
12"	3.00	17.0	12 x 7/8" - 9	4	1.00	32.62	43.25	362
14"	3.00	18.74	12 x 1" - 8	4	1.50	35.45	56.08	508
16"	3.50	21.24	16 x 1" - 8	4	1.65	38.25	60.8	733
18"	3.50	22.76	16 x 1-1/8" - 7	6	1.80	41.28	67.20	1244
20"	4.50	25.00	20 x 1-1/8" - 7	6	2.00	44.50	73.00	1698
24"	4.50	29.49	20 x 1-1/4" - 7	6	2.00	51.20	84.20	2445

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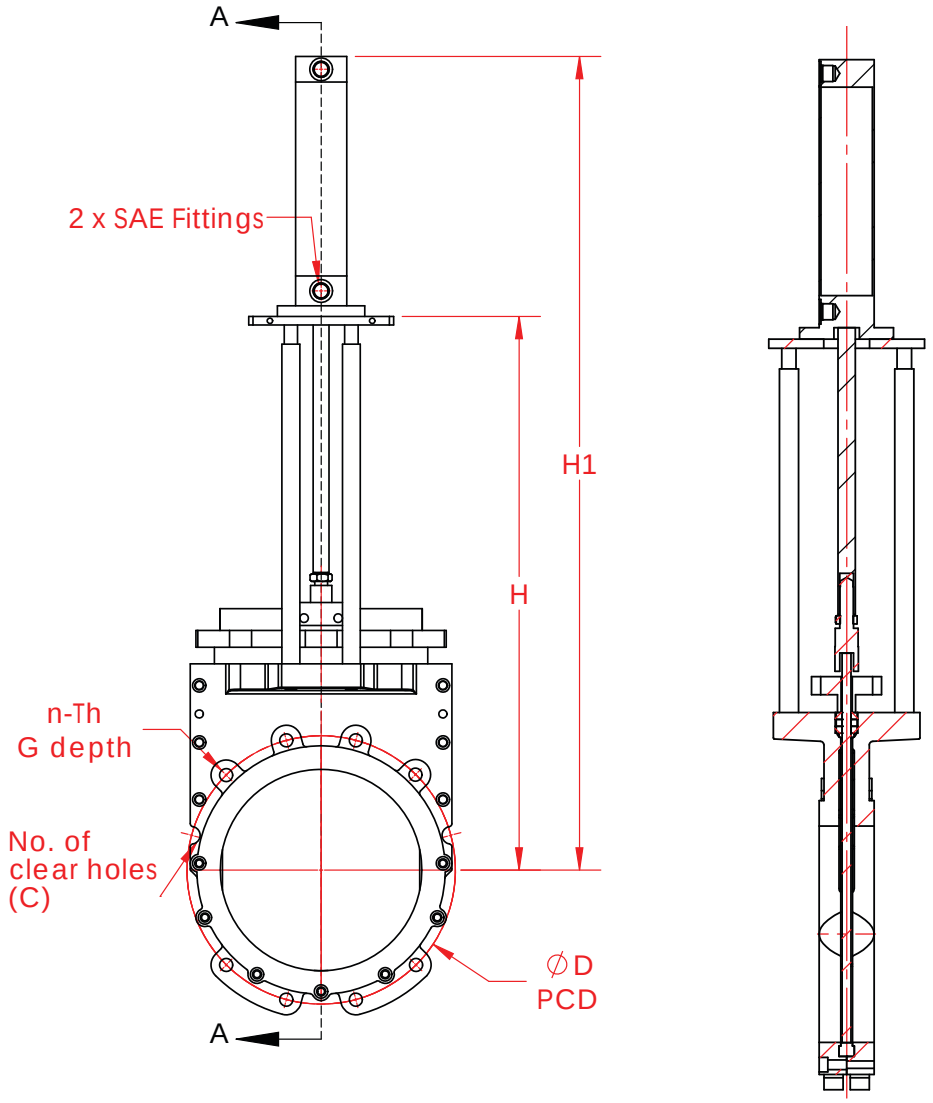
E5200 Knife Gate Valve

2" to 24" with Hydraulic Cylinder



Dimensions								
Size	L	D	n-Th	C	G	H	H1	Weight
NPS	in	in	in	in	in	in	in	lbs
2"	1.88	4.74	4 x 5/8" - 11	0	0.57	10.75	18.75	37
3"	2.00	6.00	4 x 5/8" - 11	0	0.80	14.25	23.25	62
4"	2.00	7.50	8 x 5/8" - 11	4	0.80	17.50	27.50	63
5"	2.25	8.50	8 x 3/4" - 10	4	0.85	26.40	37.40	85
6"	2.25	9.51	8 x 3/4" - 10	4	0.85	22.70	33.20	101
8"	2.75	11.75	8 x 3/4" - 10	4	0.95	23.55	35.55	156
10"	2.75	14.25	12 x 7/8" - 9	4	1.00	27.00	42.75	222
12"	3.00	17.0	12 x 7/8" - 9	4	1.00	32.62	49.62	362
14"	3.00	18.74	12 x 1" - 8	4	1.50	35.45	54.95	508
16"	3.50	21.24	16 x 1" - 8	4	1.65	38.25	60.25	733
18"	3.50	22.76	16 x 1-1/8" - 7	6	1.80	41.28	67.20	1244
20"	4.50	25.00	20 x 1-1/8" - 7	6	2.00	44.50	73.00	1698
24"	4.50	29.49	20 x 1-1/4" - 7	6	2.00	51.20	86.20	2445

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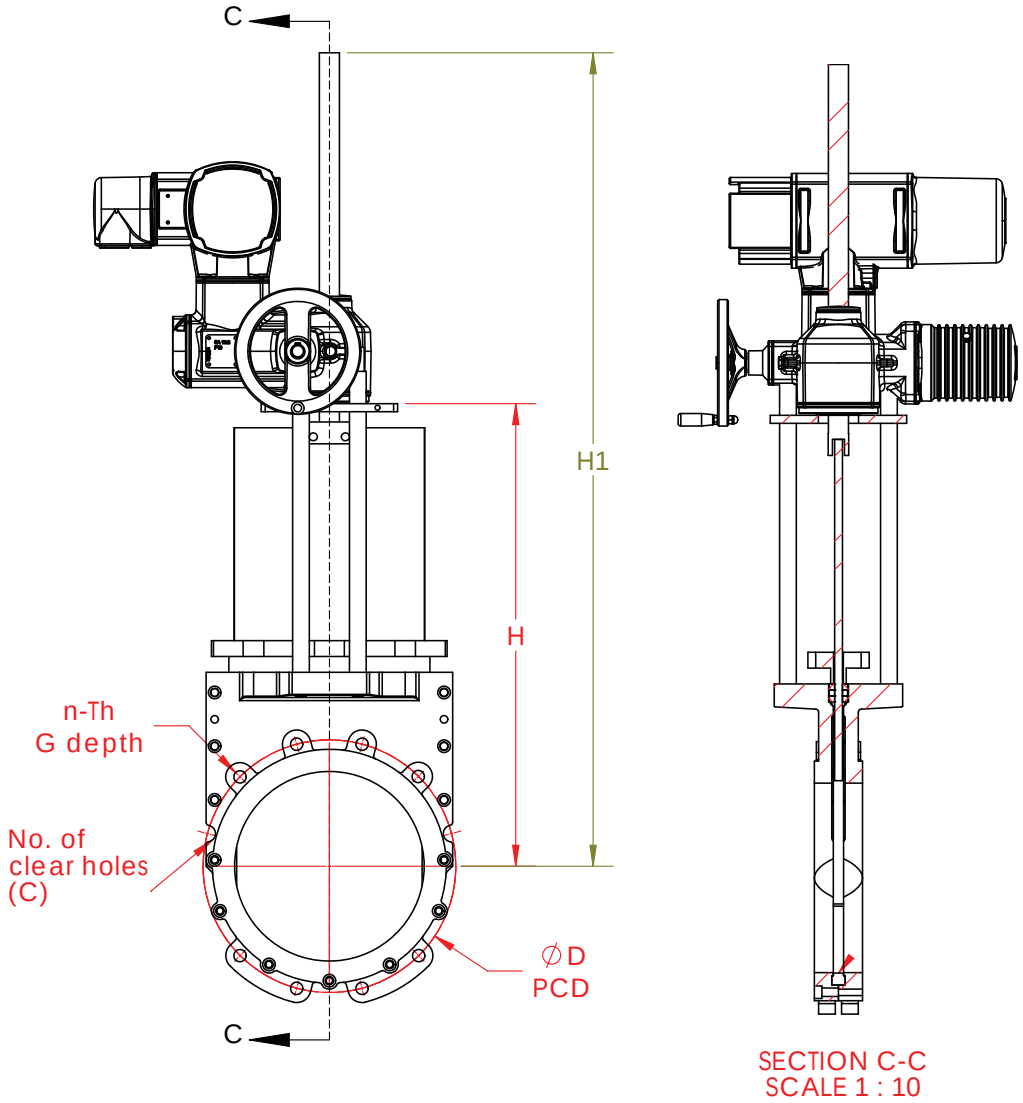
E5200 Knife Gate Valve

2" to 24" with Electric Actuator



Dimensions									Actuating Sizing Details					
Size	L	D	n-Th	C	G	H	H1	Weight	Mounting	Break Torque		Stem Trapezoidal Thread		
NPS	in	in	in	in	in	in	in	lbs	ISO 5211	lbf-in	N.m	Size	Start	Pitch
2"	1.88	4.74	4 x 5/8" - 11	0	0.57	10.75	17.75	110	F07 / F10	49	5.56	Tr16 x 4xLH	1	4
3"	2.00	6.00	4 x 5/8" - 11	0	0.80	14.25	22.25	128	F07	58	6.52	Tr20 x 4LH	1	4
4"	2.00	7.50	8 x 5/8" - 11	4	0.80	17.50	26.50	128	F07	148	16.70	Tr20 x 4LH	1	4
6"	2.25	9.51	8 x 3/4" - 10	4	0.85	22.70	34.33	165	F07	179	20.26	Tr24 x 5LH	1	5
8"	2.75	11.75	8 x 3/4" - 10	4	0.95	23.55	37.18	222	F10	297	33.59	Tr26 x 5LH	1	5
10"	2.75	14.25	12 x 7/8" - 9	4	1.00	27.00	37.63	286	F10 / F14	464	52.48	Tr26 x 5LH	1	5
12"	3.00	17.0	12 x 7/8" - 9	4	1.00	32.62	43.25	403	F10 / F14	568	64.19	Tr32 x 6LH	1	6
14"	3.00	18.74	12 x 1" - 8	4	1.50	35.45	56.08	543	F10 / F14	818	92.44	Tr32 x 6LH	1	6
16"	3.50	21.24	16 x 1" - 8	4	1.65	38.25	60.88	730	F14 / F25	818	92.44	Tr36 x 6LH	1	6
18"	3.50	22.76	16 x 1-1/8" - 7	6	1.80	41.28	67.20	1179	F14	1113	125.82	Tr32 x 6LH	1	6
20"	4.50	25.00	20 x 1-1/8" - 7	6	2.00	44.50	73.00	1637	F14	1480	167.26	Tr42 x 8LH	1	8
24"	4.50	29.49	20 x 1-1/4" - 7	6	2.00	51.20	84.20	2265	F14	1933	218.46	Tr42 x 8LH	1	8

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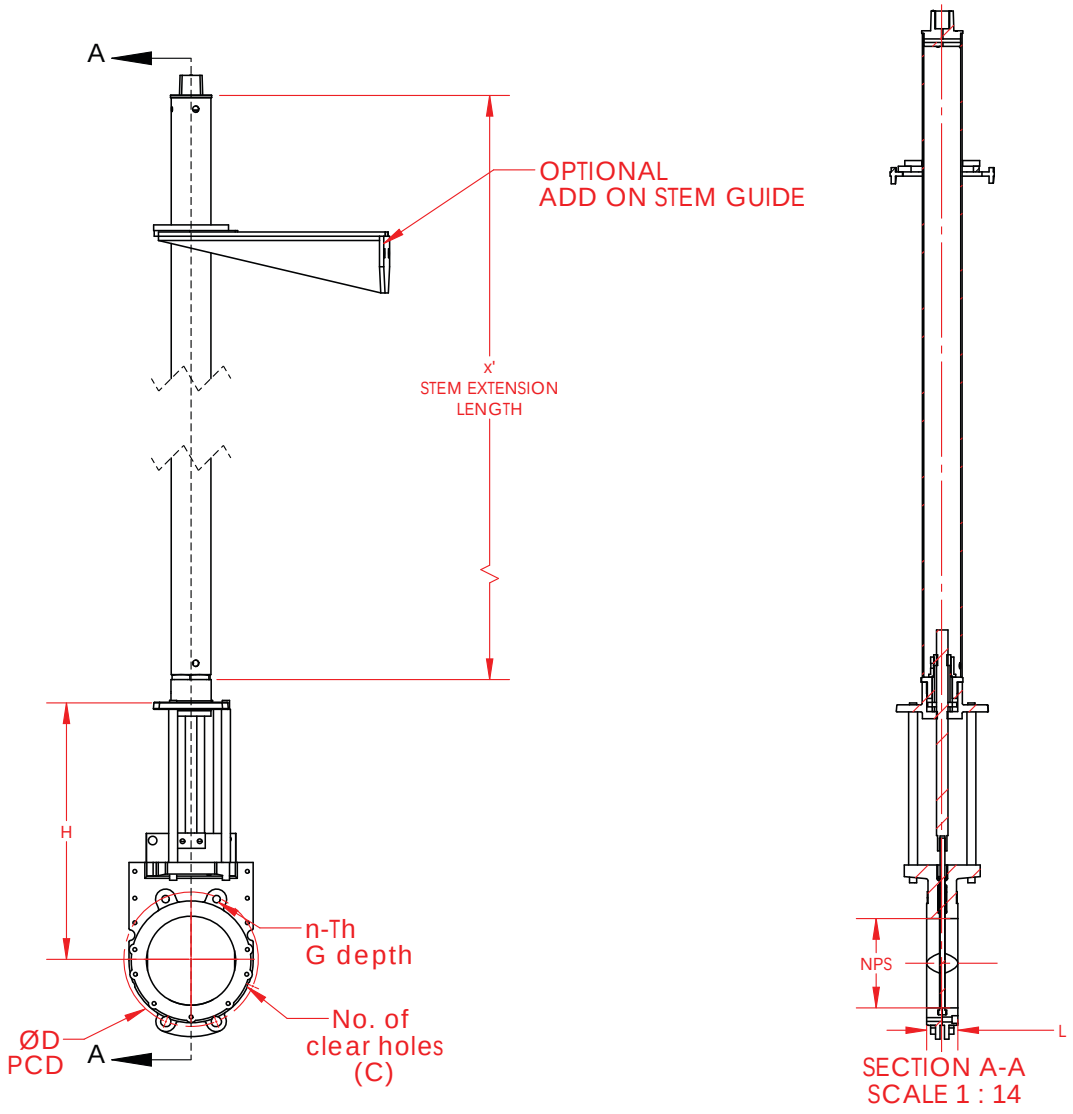
E5200 Knife Gate Valve

2" to 24" with Extension and 2" Nut



Dimensions						
Size	L	D	n-Th	C	G	H
NPS	in	in	in	in	in	in
2"	1.88	4.74	4 x 5/8" - 11	0	0.57	10.75
3"	2.00	6.00	4 x 5/8" - 11	0	0.80	14.25
4"	2.00	7.50	8 x 5/8" - 11	4	0.80	17.50
5"	2.25	8.50	8 x 3/4" - 10	4	0.85	26.40
6"	2.25	9.51	8 x 3/4" - 10	4	0.85	22.70
8"	2.75	11.75	8 x 3/4" - 10	4	0.95	23.55
10"	2.75	14.25	12 x 7/8" - 9	4	1.00	27.00
12"	3.00	17.0	12 x 7/8" - 9	4	1.00	32.62
14"	3.00	18.74	12 x 1" - 8	4	1.50	35.45
16"	3.50	21.24	16 x 1" - 8	4	1.65	38.25
18"	3.50	22.76	16 x 1-1/8" - 7	6	1.80	41.28
20"	4.50	25.00	20 x 1-1/8" - 7	6	2.00	44.50
24"	4.50	29.49	20 x 1-1/4" - 7	6	2.00	51.20

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E52	Body Material	Gate Material	Seat Material	Top Works	Packing	Operator or Actuators	-	Size	-	Additional Option	Additional Option	Additional Option
E52	D	1	E	S	T	W	-	08	-			

Body Material

Code	Common Name	Cast
✓ D	Ductile Iron	A536 65-45-12

Gate Material

Code	Common Name	Cast
✓ 1	304 SS	A240

Seat Material

Code	
✓ E	EPDM -60°F to 300°F (-50°C to 150°C)
✓ V	Viton™-B -60°F to 300°F (-50°C to 150°C)

Top Works

Code	
✓ S	304SS Stanchions

Packing

Code	
✓ T	PTFE

Operator & Actuators

Code	
✓ W	Handwheel
B	Bare Stem
C	Gearbox with Chainwheel
E	Electric On/Off
G	Gearbox with Handwheel
H	Hydraulic Cylinder (DA)
N	2" Drive Nut
P	Pneumatic Cylinder (DA)
R	Pneu. Cyl. - Spring Closed (FC)
S	Pneu. Cyl. - Spring Open (FO)
T	Ratchet
X	No Stem (CLA Only)
Z	Special

Size

Code	NPS (inch)	DN (mm)
✓ 03	3"	80
✓ 04	4"	100
✓ 06	6"	150
✓ 08	8"	200
✓ 10	10"	250
✓ 12	12"	300
✓ 14	14"	350
✓ 16	16"	400
✓ 18	18"	450
✓ 20	20"	500
✓ 24	24"	600

Options & Accessories

Code	
✓	None
	Chrome Coated Gate
	NEDOX® SF2 Coated Gate
	Low Temp Actuator Seals
	High Temp Actuator Seals
	Oversized Pneumatic Cylinder
	Stem Extension
	Air Filter / Regulator
Q	Junction Box Kit
S	Solenoid (120 VAC)
S(24)	Solenoid (24 VDC)
S(120EXP)	Solenoid (120 VAC Ex)
S(24EXP)	Solenoid (24 VDC Ex)
X	Position Sensors (Open/Closed)
Y	Bellows Stem Protector
Z	Special (Consult Factory)

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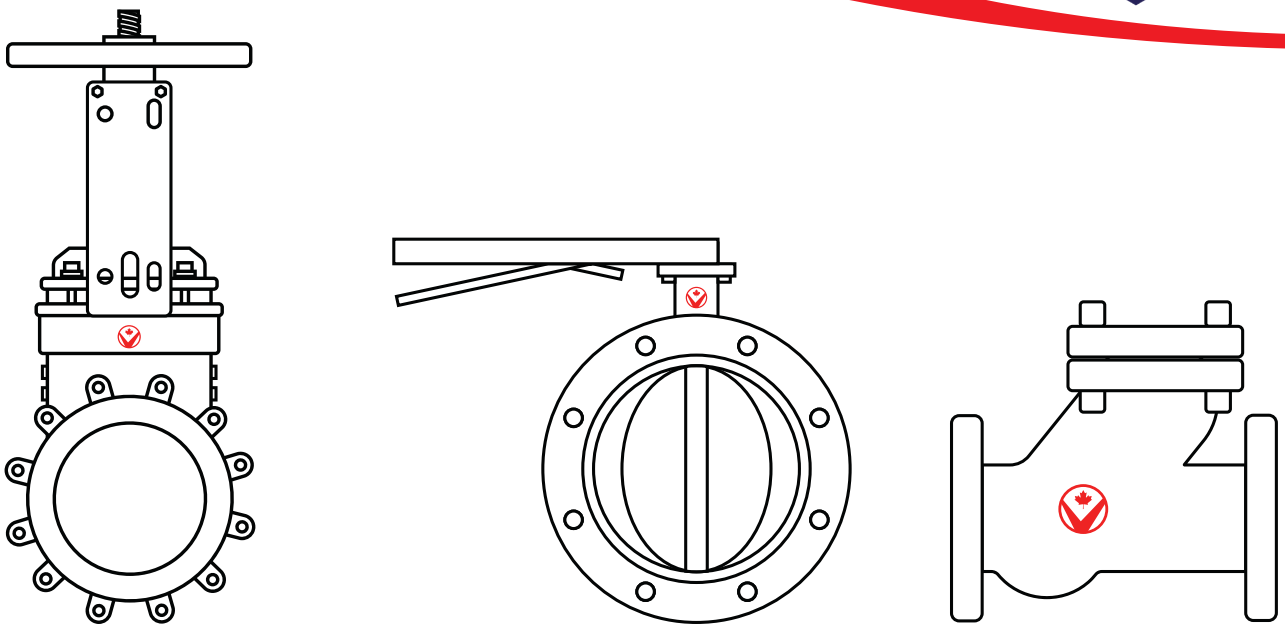

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Our North American manufacturing and testing facility is located in Oakville, Ontario and houses over 190,000 sq ft of inventory.

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