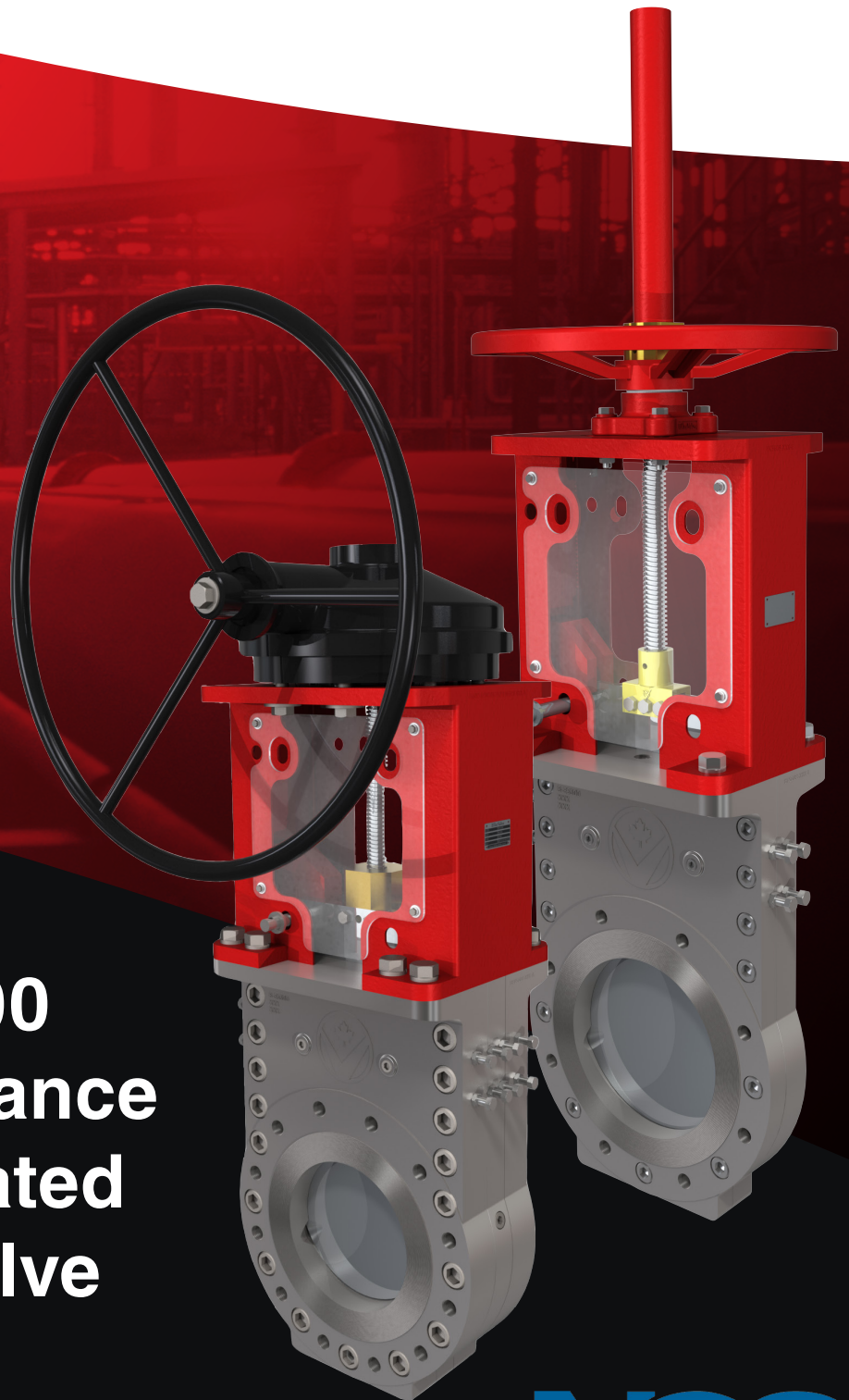


# Elite Valve

elitevalve.com

Customized  
valve solutions  
for the toughest  
applications



## E5600 & E6600 High Performance Perimeter Seated Knife Gate Valve

with Double Block and Bleed Variations

**NGC**  
PRODUCT SOLUTIONS LTD

Offering both standard and custom-engineered solutions, Elite Valve can meet all your process requirements.



PRODUCT SOLUTIONS INC.

3160 118 Avenue SE  
Calgary, AB T2Z 3X1  
**TOLL FREE:** 888 770 8899  
**MAIN:** 403 295 3114  
**EMAIL:** [sales@ngc-ps.com](mailto:sales@ngc-ps.com)  
**WEB:** [ngc-ps.com](http://ngc-ps.com)



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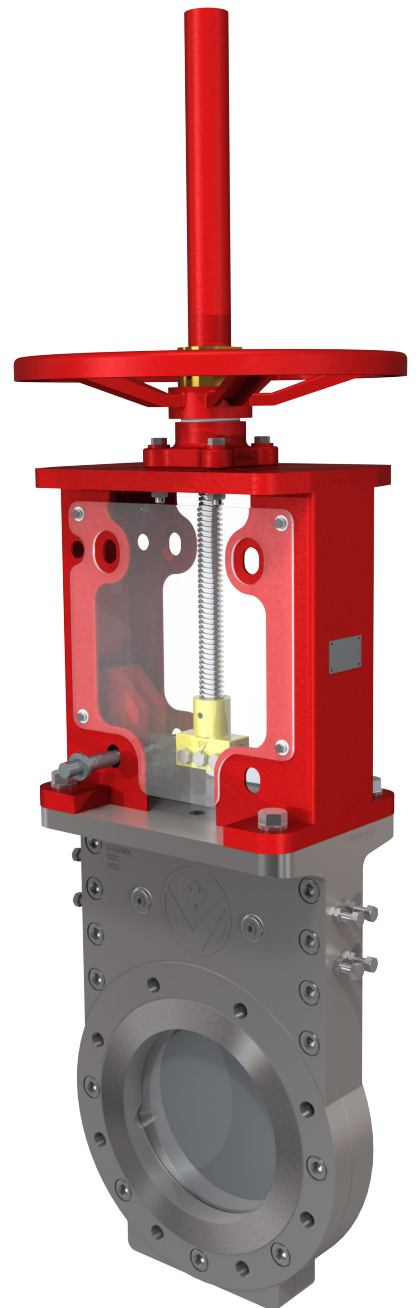
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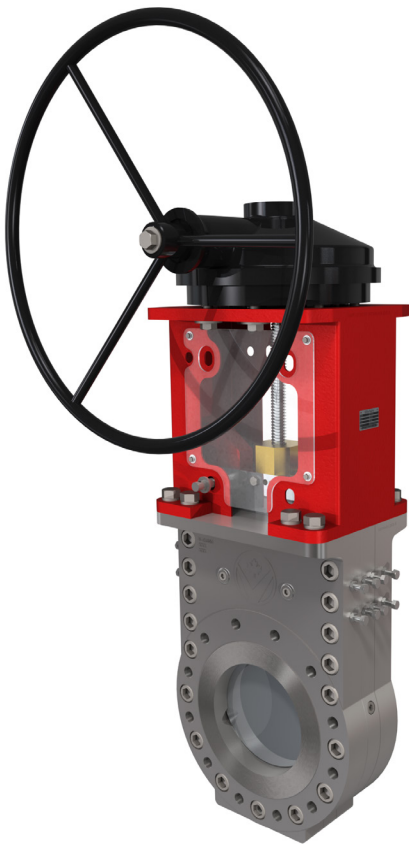
# About Elite Valve

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Elite Valve is committed to being a global leader, developing products and manufacturing technology that will offer a new level of acceptance. We recognize that all applications are not the same and as our client's processes change, so should the valve technology.

As an ISO 9001 company, our vision is to continue to develop manufacturing technology centers, while expanding our manufacturing partnerships on a global basis.

Our engineers are rewarded for innovative thinking, turning problems into opportunities, and advancing product performance. Our concept is simple, strive to be the very best possible! With these few words, we employ years of experience, hand crafting some of the best valves technology can offer. Our ability to provide both standardized and custom-engineered solutions allows us to meet the critical needs of customers for each application.





# Introducing the E5600 and E6600 KGV

---

The E5600/E6600 High Performance Perimeter Seated KGV provides ASME Class 150/Class 300 bidirectional zero leakage shutoff in line or dead end service meeting and exceeding MSS-SP135 standards. It can handle clean or heavy slurries in highly alkaline or acidic solutions. It is our most customizable and dependable knife gate valve, making it the ideal solution for a wide range of industries.

The E5600 and E6600 also comes in a Double Block and Bleed configuration. The DBB5600 Class 150 and DBBE6600 Class 300 ratings meets MSS-SP152 standards.

## Industries and Applicable Standards:

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Our High Performance Perimeter Seated KGV is ideal for a wide range of industries including:

- Chemical
- Mining and Mineral
- Pulp and Paper
- Steel Mills
- Oil and Gas
- Power Generation
- Water/Waste Water Treatment Plants

Elite Valve conforms with and/or has the following industry approvals.

- ASME 16.34
- ASME B16.5
- ASME B16.47
- MSS-SP81
- MSS-SP135
- MSS-SP152
- API 598
- API 607
- CRN
- ISO 9001



Elite Valve

# E5600: Cutaway View

Rising stem with stem protector as a standard to prevent column loading and gate bending while reducing actuating torques. Optional non-rising stem available.

Powder-coated welded steel yoke with standard ISO-5211 mounting patterns for simple actuator mounting, with no adapter plates needed. Includes OSHA compatible LOTO pin and proximity sensor slot provisions. Clear acrylic dust covers allows visibility and protection of the gate operation.

Heavy duty stainless steel ACME double start stem reduces hand-wheel turns and sized to reduce actuating torques. Highly visibility clevis coating.

Standard primary seal leak detection/drain ports.

Low friction PTFE/GPTFE gate glides to prevent gate rubbing body.

Standard extended flush ports to prevent solids buildup at sealing edge. Full round port matching.

Optional bore reducing wear rings available.

Designed and tested as per MSS-SP-135.

Various actuation options available, including hand-wheel, bevel gear, pneumatic, hydraulic and electric.

Dual independent energized transverse seals with corner seals to prevent packing from coming in contact with gate. Each seal has dual phenolic scrapers to prevent process buildup on gate damaging the seals. Various seal and scraper materials available.

Standard 316 stainless steel, surface ground and polished gate standard. Available in various materials and exotic alloys. Low friction and high wear coatings available for the most demanding processes.

Shearing edge. Secondary metal seat.

Positive gate stop preventing over-compression of seat.

Mechanically retained perimeter seat with grip holes preventing strengthening and tearing during cycling.

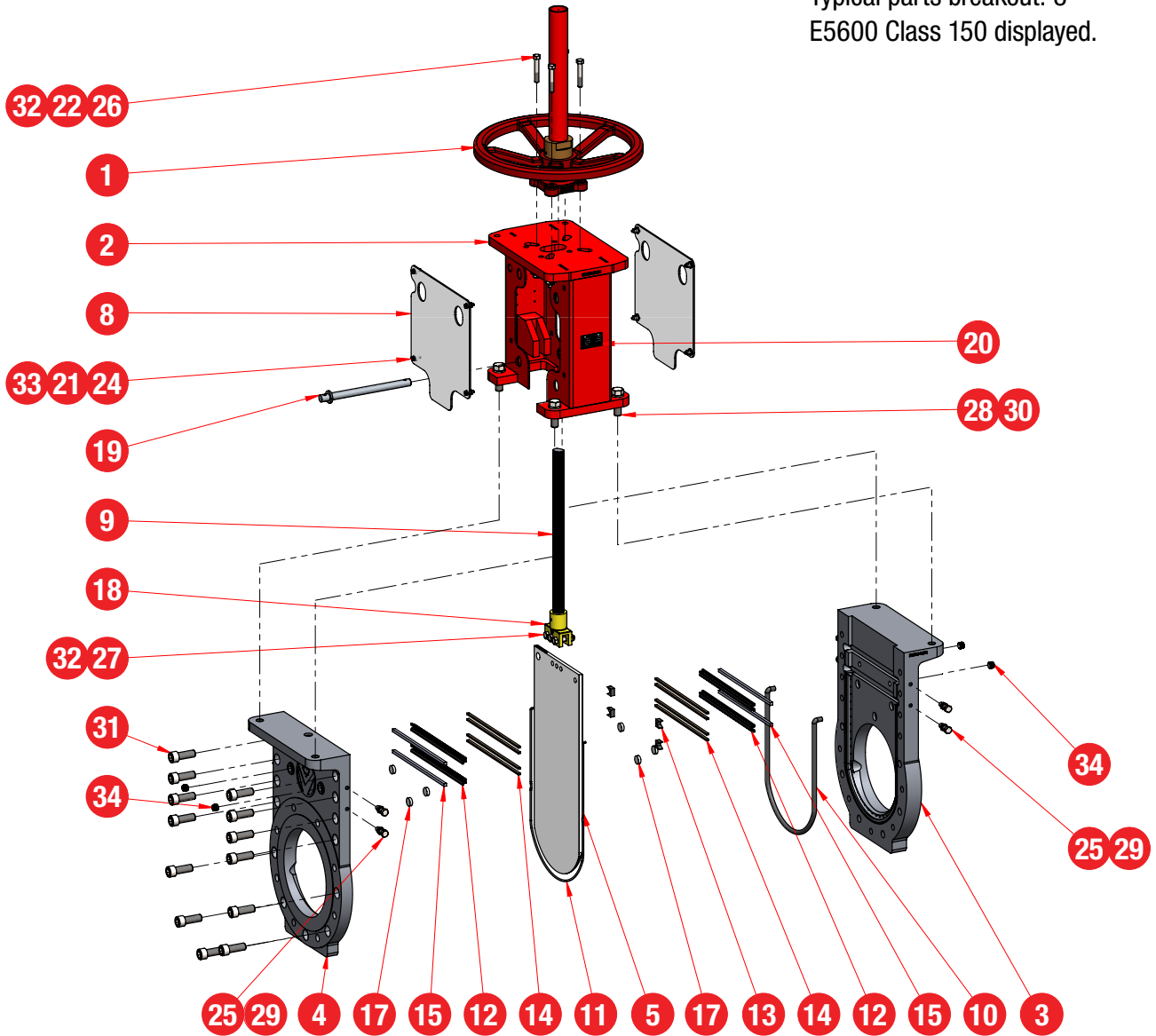
Secondary atmospheric seal preventing leakage between body halves.

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# E5600: Exploded View

## E5600: Exploded View

Typical parts breakout. 8"  
E5600 Class 150 displayed.



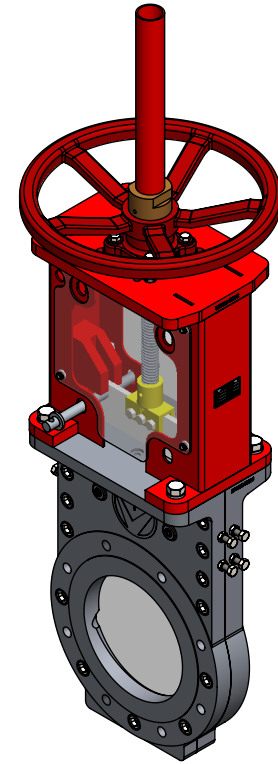
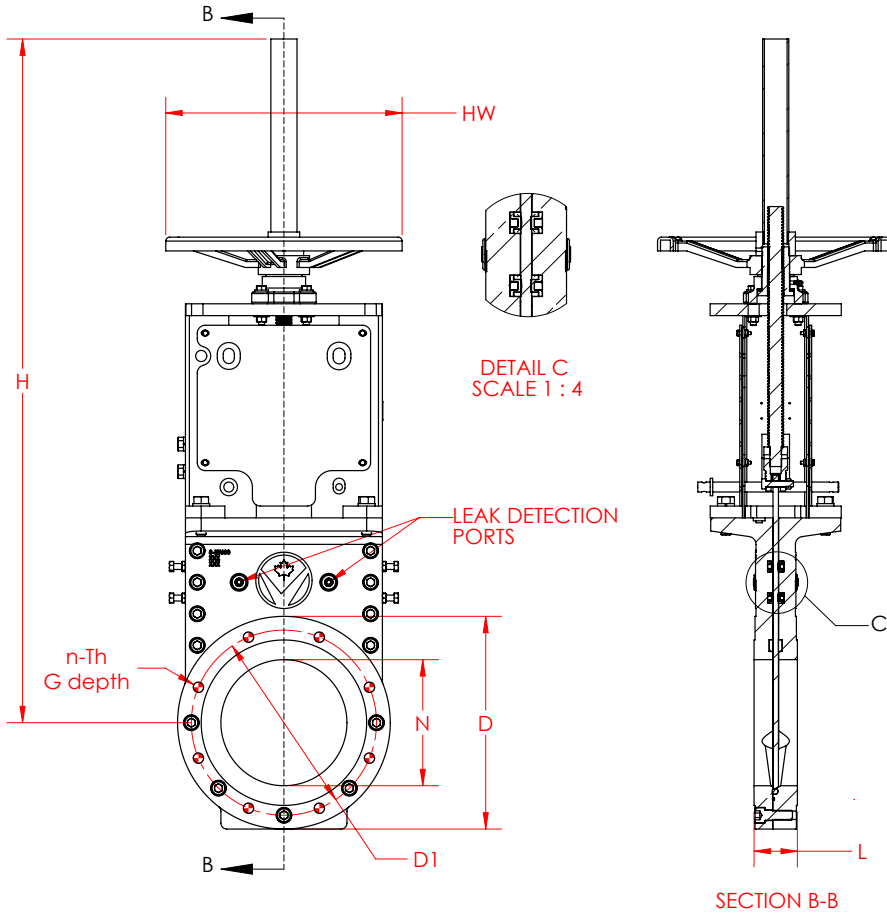
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# E5600: Material

Materials			
Item Number	Part Number	Description	Qty
1	OPHW02-XXX	HANDWHEEL ASSEMBLY 02	1
2	YK5608-XXX	8" E5600, YOKE	1
3	BF5608-XXX	8" E5600, BODY, SEAT SIDE, FINISHED	1
4	BFN5608-XXX	8" E5600, BODY, NON-SEAT SIDE, FINISHED	1
5	GF5608-XXX	8" E5600, GATE, FINISHED	1
8	YSS5608-XXX	8" E5600, SAFETY SCREEN	2
9	ST08-XXX	8" STEM	1
10	OR5608-XXX	8" E5600, PERIMETER SEAT	1
11	OR5608AS-XXX	8" E5600, ATMOSPHERIC SEAL	1
12	TS5608-XXX	8" E5600, TRANSVERSE SEAL	4
13	TSC5608-XXX	8" E5600, TRANSVERSE CORNER SEAL	4
14	TSS5608-XXX	8" E5600, TRANSVERSE SEAL SCRAPER	8
15	PK5608-XXX	8" E5600, INJECTABLE PACKING	4
16	SPR08-XXX	8" STEM PROTECTOR	1
17	GG02-XXX	GATE GLIDE 02	6
18	CL02-XXX	CLEVIS 02	1
19	LP02-XXX	LOCKOUT PIN 02	1
20	TAG-ELITE-KGV	KGV NAMEPLATE	1
21	HW-FW-#10-UHMW	#10 FLAT WASHER, UHMW	8
22	HW-FW-0.375-188	3/8 FLAT WASHER, 18-8SS	4
23	HW-GFS-0.2500-28-303	GREASE FITTING 1/4"-28 STRAIGHT	1
24	HW-HHCS-#10-24x0.75x0.75-188	#10-24 x 0.75 x 0.75, HEX HEAD CAP SCREW, 18-8SS	8
25	HW-HHCS-0.375-16x1.25x1.25-188	3/8-16 x 1.25 x 1.25, HEX HEAD CAP SCREW, 18-8SS	8
26	HW-HHCS-0.375-16x2.25x1-188	3/8-16 x 2.25 x 1, HEX HEAD CAP SCREW, 18-8SS	4
27	HW-HHCS-0.375-24x1.75x1-188	3/8-24 x 1.75 x 1, HEX HEAD CAP SCREW, 18-8SS	3
28	HW-HHCS-0.625-11x2x1.5-188	5/8-11 x 2 x 1.5, HEX HEAD CAP SCREW, 18-8SS	4
29	HW-JM-0.375-16-188	3/8-16 JAM NUT, 18-8SS	8
30	HW-LW-0.625-188	5/8 SPRING LOCK WASHER, 18-8SS	4
31	HW-SHCS-0.625-11x1.75x1.75-188	5/8-11 x 1.75 x 1.75, SOCKET HEAD CAP SCREW, 18-8SS	13
32	HW-TLN-0.375-16-188	3/8-16 TOP LOCK NUT, 18-8SS	7
33	HW-GN-#10-NYL	#10 NYLON GROMMET NUT	8
34	FIT-0.25HPP-316	1/4" NPT, SOCKET PIPE PLUG	4

# E5600: Handwheel

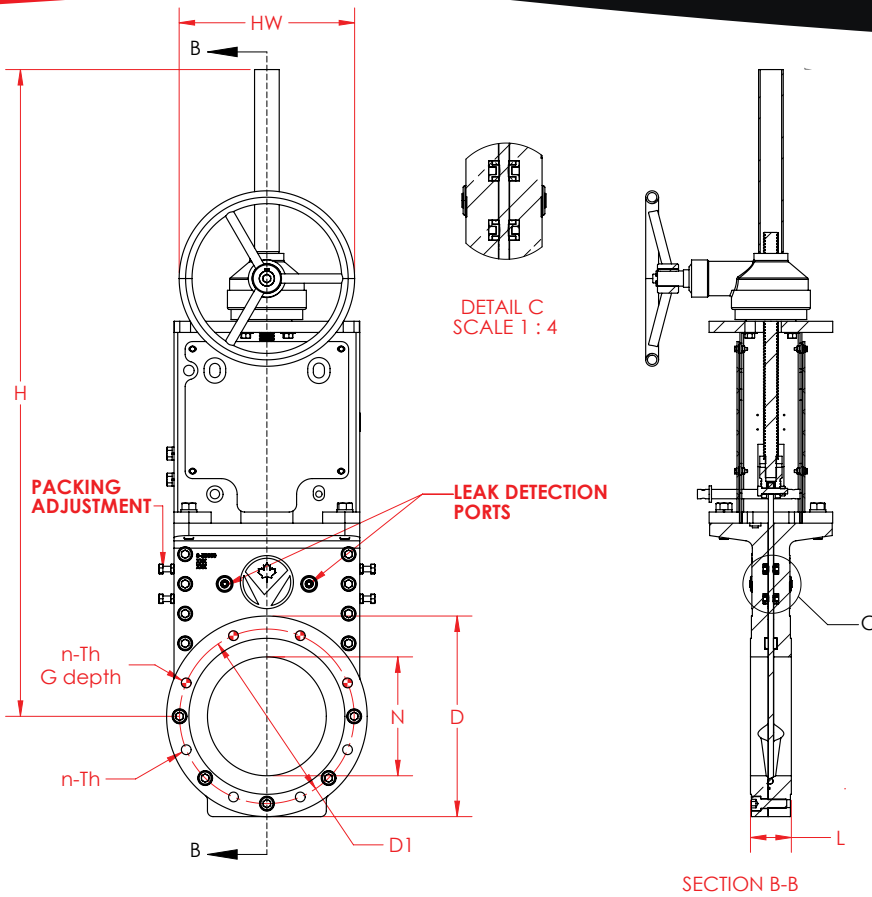


- Maximum working pressure class #150
- Designed and tested as per MSS-SP135, ASME B16-34
- Zero leakage shutoff for resilient seated valves

Dimensions												
NPS	L	D	D1	N	n-Th	G	H	HW	Weight	Rim Pull		
	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbf @ 50psi ΔP	lbf @ 150psi ΔP	lbf @ 275psi ΔP
2	2.00	6.0	4.75	2.00	4 X 5/8" - 11	0.05	18.3	8.0	40	9	13	23
3	2.00	7.5	6.00	3.00	4 X 5/8" - 11	0.05	21.8	8.0	57	9	13	23
4	2.00	9.0	7.50	4.00	8 X 5/8" - 11	0.50	24.9	12.0	73	8	13	22
6	2.25	11.0	9.50	6.00	8 X 3/4" - 10	0.60	32.2	12.0	123	15	22	39
8	2.75	13.5	11.75	8.00	8 X 3/4" - 10	0.60	39.5	15.0	205	15	23	40
10	2.75	16.0	14.25	10.00	12 X 7/8" - 9	0.63	46.3	20.0	271	18	27	47
12	3.00	19.0	17.00	12.00	12 X 7/8" - 9	0.65	52.4	20.0	428	18	27	47

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# E5600: Bevel Gear with Handwheel



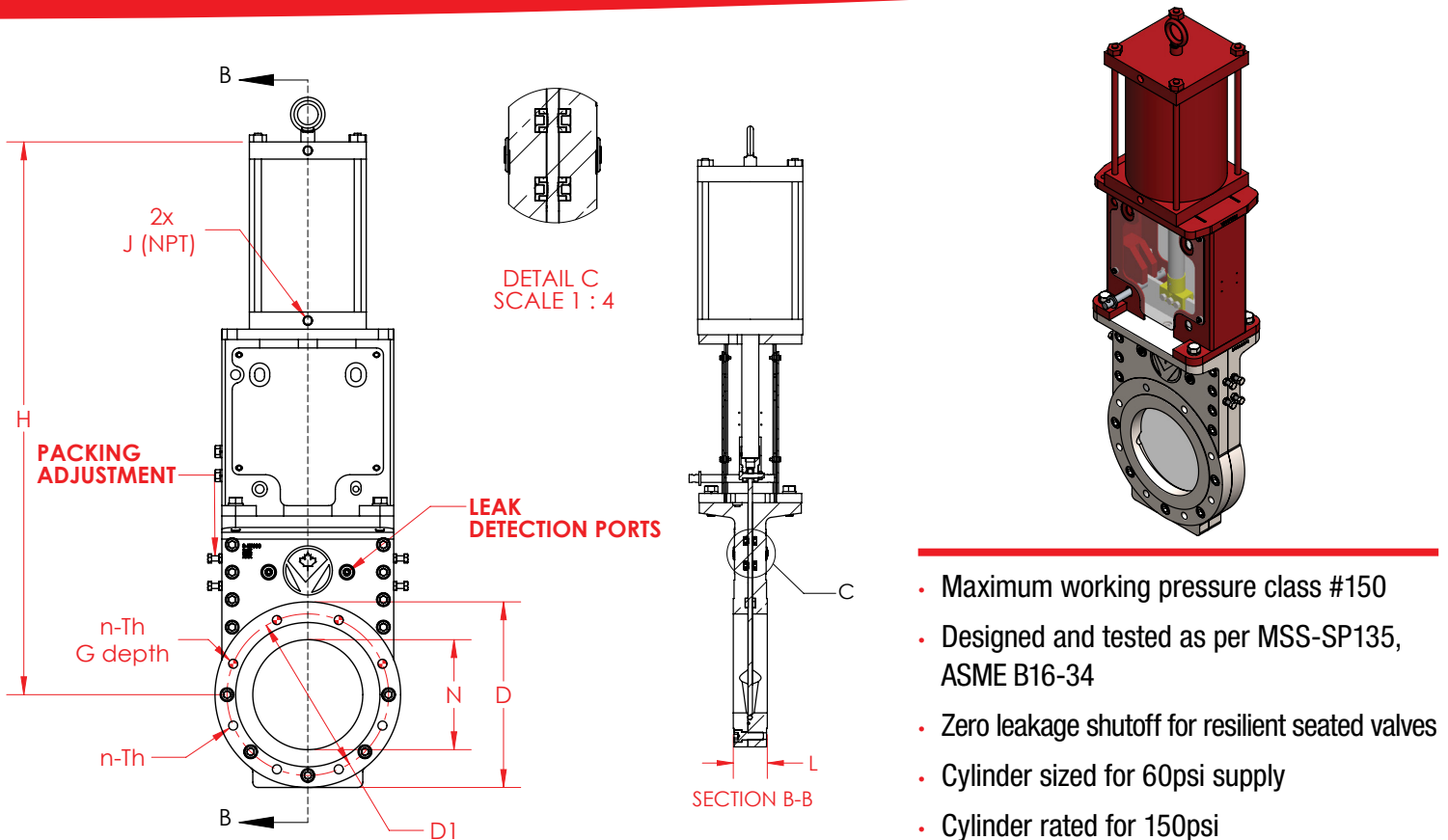
- Maximum working pressure class #150
- Designed and tested as per MSS-SP135, ASME B16-34
- Zero leakage shutoff for resilient seated valves

## Dimensions

NPS	L	D	D1	N	n-Th	G	H	HW	Weight	Rim Pull		
										lbf @ 50psi ΔP	lbf @ 150psi ΔP	lbf @ 275psi ΔP
2	2.00	6.0	4.75	2.00	4 X 5/8" - 11	0.50	17.9	11.8	52	2	4	6
3	2.00	7.5	6.00	3.00	4 X 5/8" - 11	0.50	21.4	11.8	68	2	4	6
4	2.00	9.0	7.50	4.00	8 X 5/8" - 11	0.50	24.5	11.8	83	3	5	9
6	2.25	11.0	9.50	6.00	8 X 3/4" - 10	0.60	31.8	11.8	132	6	9	16
8	2.75	13.5	11.75	8.00	8 X 3/4" - 10	0.60	38.6	11.8	215	6	10	17
10	2.75	16.0	14.25	10.00	12 X 7/8" - 9	0.63	45.4	11.8	280	10	15	26
12	3.00	19.0	17.00	12.00	12 X 7/8" - 9	0.65	51.5	11.8	436	10	15	26
14	3.00	21.0	18.75	13.25	12 X 1" - 8	0.65	60.7	15.7	610	11	17	30
16	3.50	23.5	21.25	15.25	16 X 1" - 8	0.70	67.4	15.7	810	11	17	30
18	3.50	25.0	22.75	17.25	16 X 1.125" - 8	0.70	71.4	15.7	863	16	23	41
20	4.50	27.5	25.00	19.25	20 X 1.125" - 8	0.95	82.4	23.6	1421	14	22	38
24	4.50	32.0	29.25	23.25	20 X 1.25" - 8	0.95	95.7	23.6	1846	23	34	59
26	6.75	34.3	31.75	25.25	24 X 1.25" - 8	1.25	110.0	27.6	2200	18	28	48
28	7.12	35.5	34.00	27.25	28 X 1.25" - 8	1.25	116.0	27.6	2600	21	33	57
30	7.38	38.8	36.00	29.25	28 X 1.25" - 8	1.25	121.0	27.6	3200	25	38	66
32	8.12	41.8	38.50	31.25	28 X 1.5" - 8	1.50	127.0	27.6	3500	29	43	75
36	8.88	46.0	42.75	35.25	32 X 1.5" - 8	1.50	145.0	27.6	4300	32	48	83

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# E5600: Pneumatic Cylinder

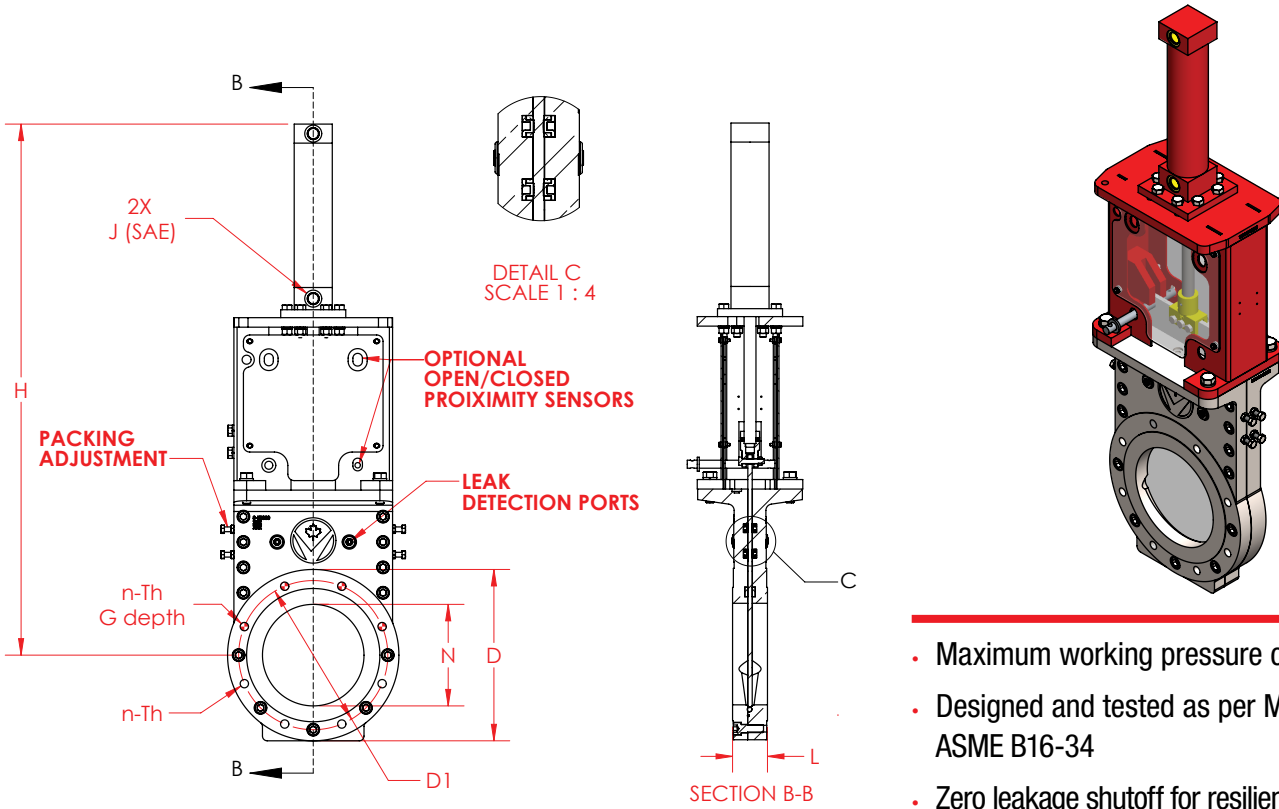


- Maximum working pressure class #150
- Designed and tested as per MSS-SP135, ASME B16-34
- Zero leakage shutoff for resilient seated valves
- Cylinder sized for 60psi supply
- Cylinder rated for 150psi

Dimensions									
NPS	L	D	D1	N	n-Th	G	H	J (NPT)	Weight
	inch	inch	inch	inch	inch	inch	inch	inch	lbs
2	2.00	6.0	4.75	2.00	4 X 5/8" - 11	0.50	19.0	1/4	50
3	2.00	7.5	6.00	3.00	4 X 5/8" - 11	0.50	22.5	1/4	67
4	2.00	9.0	7.50	4.00	8 X 5/8" - 11	0.50	25.7	1/4	90
6	2.25	11.0	9.50	6.00	8 X 3/4" - 10	0.60	33.5	1/4	172
8	2.75	13.5	11.75	8.00	8 X 3/4" - 10	0.60	40.3	3/8	252
10	2.75	16.0	14.25	10.00	12 X 7/8" - 9	0.63	48.1	3/8	400
12	3.00	19.0	17.00	12.00	12 X 7/8" - 9	0.65	54.2	3/8	558
14	3.00	21.0	18.75	13.25	12 X 1" - 8	0.65	63.1	1/2	775
16	3.50	23.5	21.25	15.25	16 X 1" - 8	0.70	69.8	1/2	981
18	3.50	25.0	22.75	17.25	16 X 1.125" - 8	0.70	74.5	1/2	1145
20	4.50	27.5	25.00	19.25	20 X 1.125" - 8	0.95	86.6	1/2	1832
24	4.50	32.0	29.25	23.25	20 X 1.25" - 8	0.95	100.4	1/2	2545
26	6.75	34.3	31.75	25.25	24 X 1.25" - 8	1.25	108.0	-	-
28	4.12	35.5	34.00	27.25	28 X 1.25" - 8	1.25	114.0	-	-
30	7.38	38.8	36.00	29.25	28 X 1.25" - 8	1.25	119.0	-	-
32	8.12	41.8	38.50	31.25	28 X 1.5" - 8	1.50	125.0	-	-
36	8.88	46.0	42.75	35.25	32 X 1.5" - 8	1.50	140.0	-	-

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# E5600: Hydraulic Cylinder

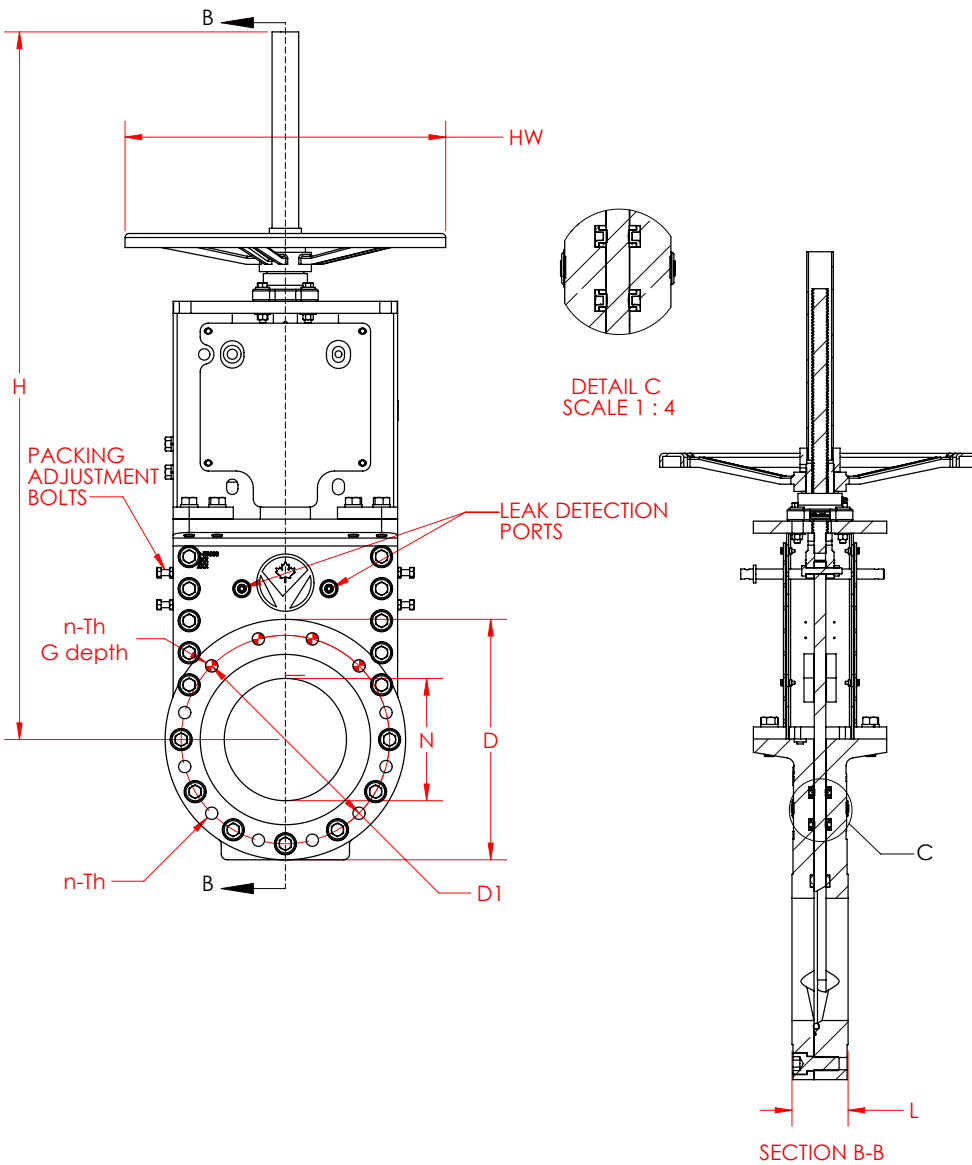


- Maximum working pressure class #150
- Designed and tested as per MSS-SP135, ASME B16-34
- Zero leakage shutoff for resilient seated valves

Dimensions									
NPS	L	D	D1	N	n-Th	G	H	J (SAE)	Weight
	inch	inch	inch	inch	inch	inch	inch	inch	lbs
2	2.00	6.0	4.75	2.00	4 X 5/8" - 11	0.50	21.0	-10	50
3	2.00	7.5	6.00	3.00	4 X 5/8" - 11	0.50	24.5	-10	67
4	2.00	9.0	7.50	4.00	8 X 5/8" - 11	0.50	27.7	-10	90
6	2.25	11.0	9.50	6.00	8 X 3/4" - 10	0.60	35.5	-10	172
8	2.75	13.5	11.75	8.00	8 X 3/4" - 10	0.60	42.3	-10	252
10	2.75	16.0	14.25	10.00	12 X 7/8" - 9	0.63	50.1	-10	400
12	3.00	19.0	17.00	12.00	12 X 7/8" - 9	0.65	56.2	-10	558
14	3.00	21.0	18.75	13.25	12 X 1" - 8	0.65	65.1	-10	775
16	3.50	23.5	21.25	15.25	16 X 1" - 8	0.70	71.8	-12	981
18	3.50	25.0	22.75	17.25	16 X 1.125" - 8	0.70	76.5	-12	1145
20	4.50	27.5	25.00	19.25	20 X 1.125" - 8	0.95	88.6	-12	1832
24	4.50	32.0	29.25	23.25	20 X 1.25" - 8	0.95	102.4	-12	2545
26	6.75	34.3	31.75	25.25	24 X 1.25" - 8	1.25	110.0	-12	2634
28	7.12	35.5	34.00	27.25	28 X 1.25" - 8	1.25	116.0	-12	3067
30	7.38	38.8	36.00	29.25	28 X 1.25" - 8	1.25	121.0	-12	3278
32	8.12	41.8	38.50	31.25	28 X 1.5" - 8	1.50	127.0	-16	3826
36	8.88	46.0	42.75	35.25	32 X 1.5" - 8	1.50	145.0	-16	4158

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# E6600: Handwheel

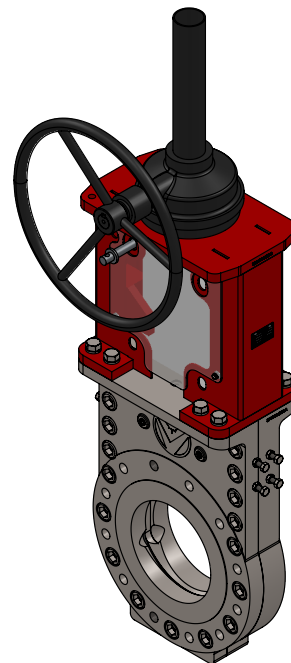
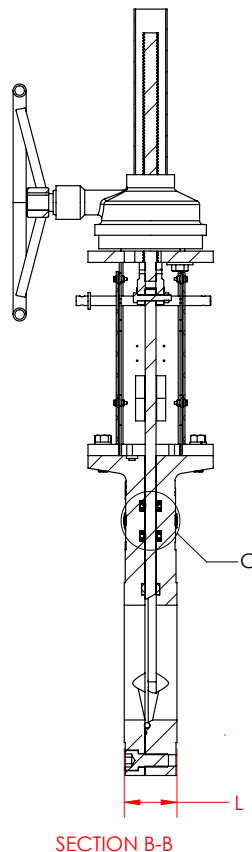
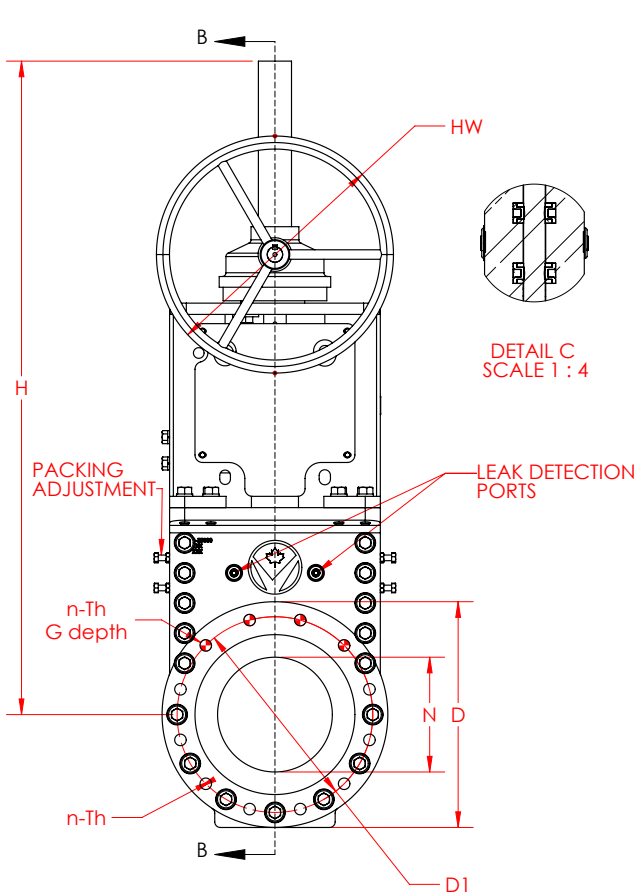


- Maximum working pressure class #300
- Designed and tested as per MSS-SP135, ASME B16-34
- Zero leakage shutoff for resilient seated valves

Dimensions												
NPS	L	D	D1	N	n-Th	G	H	HW	Weight	Rim Pull		
										lbf @ 150psi ΔP	lbf @ 300psi ΔP	lbf @ 740psi ΔP
2	2.75	6.5	5.00	1.94	8 x 5/8" - 11	0.77	20.9	12.0	65	12	12	17
3	2.75	8.3	6.62	2.90	8 x 3/4" - 10	0.73	24.4	12.0	78	12	12	17
4	2.75	10.0	7.88	3.83	8 x 3/4" - 10	0.70	27.5	12.0	135	12	17	25
6	3.15	12.5	10.63	5.76	12 x 3/4" - 10	0.83	35.8	20.0	232	20	23	34
8	3.50	15.0	13.00	7.63	12 x 7/8" - 9	0.89	42.6	20.0	292	20	23	34

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# E6600: Bevel Gear with Handwheel



- Maximum working pressure class #300
- Designed and tested as per MSS-SP135, ASME B16-34
- Zero leakage shutoff for resilient seated valves

Dimensions												
NPS	L	D	D1	N	n-Th	G	H	HW	Weight	Rim Pull		
										lbf @ 150psi ΔP	lbf @ 300psi ΔP	lbf @ 740psi ΔP
2	2.75	6.5	5.00	1.94	8 x 5/8" - 11	0.77	20.9	11.8	81	4	6	10
3	2.75	8.3	6.62	2.90	8 x 3/4" - 10	0.73	24.4	11.8	115	4	6	10
4	2.75	10.0	7.88	3.83	8 x 3/4" - 10	0.70	27.5	11.8	140	6	9	15
6	3.15	12.5	10.63	5.76	12 x 3/4" - 10	0.83	35.8	11.8	241	13	19	34
8	3.50	15.0	13.00	7.63	12 x 7/8" - 9	0.89	42.6	15.7	392	7	11	19
10	4.68	17.5	15.25	9.56	16 x 1" - 8	1.28	49.4	15.7	509	16	24	42
12	5.00	20.5	17.75	11.38	16 x 1.125" - 8	1.25	55.5	15.7	850	16	24	42
14	5.50	23.0	20.25	12.50	20 x 1.125" - 8	1.435	65.7	23.6	1190	14	20	35
16	5.50	25.5	22.50	14.31	20 x 1.25" - 8	1.24	72.4	23.6	1580	16	24	43
18	6.25	28.0	24.75	16.13	24 x 1.25" - 8	1.555	76.4	23.6	1795	22	33	58
20	7.44	30.5	27.00	17.94	24 x 1.25" - 8	1.955	87.4	11.9	2955	13	19	34
24	8.50	36.0	32.00	21.56	24 x 1.5" - 8	2.355	100.7	11.9	3840	26	39	68

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# DBB5600: Cutaway View

Powder-coated welded steel yoke with standard ISO-5211 mounting patterns for simple actuator mounting, with no adapter plates needed. Includes OSHA compatible LOTO pin and proximity sensor slot provisions. Clear acrylic dust covers allows visibility and protection of the gate operation.

Standard primary seal leak detection/drain ports.

Low friction PTFE/GPTFE gate glides to prevent gate rubbing body.

Standard extended flush ports to prevent solids buildup at sealing edge. Full round port matching.

Optional bore reducing wear rings available.

Designed and tested as per MSS-SP-152

Various actuation options available, including hand-wheel, bevel gear, pneumatic, hydraulic and electric.

Heavy duty stainless steel ACME double start stem reduces hand-wheel turns and sized to reduce actuating torques. Self lubricating aluminum bronze clevis reduces actuating torques.

Dual independent energized transverse seals with corner seals to prevent packing from coming in contact with gate. Each seal has dual phenolic scrapers to prevent process buildup on gate damaging the seals. Various seal and scraper materials available.

Standard 316 stainless steel, surface ground and polished gate standard. Available in various materials and exotic alloys. Low friction and high wear coatings available for the most demanding processes.

Four 1/2" NPT bleed/drain ports.

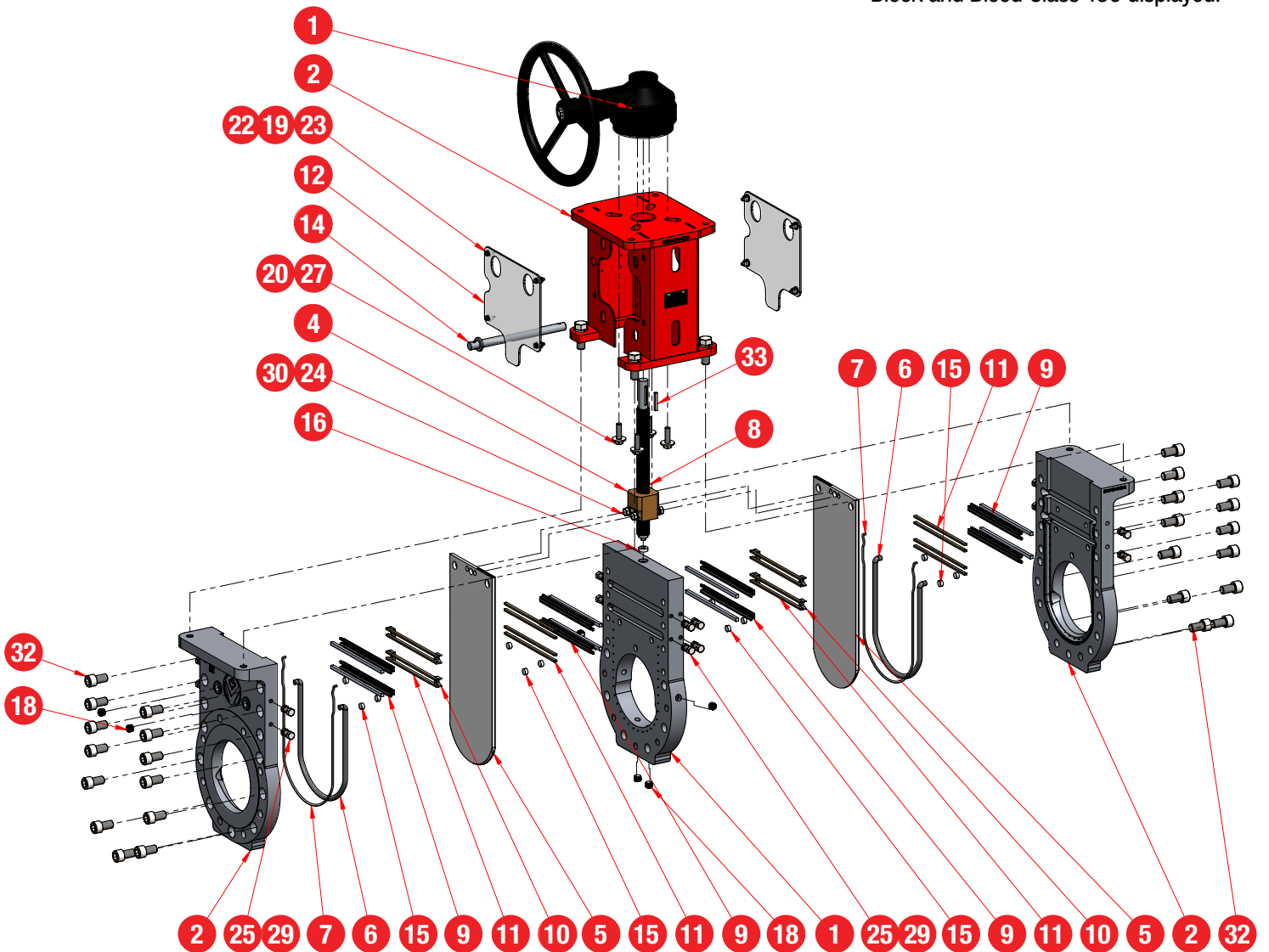
Mechanically retained o-ring perimeter seat with positive gate stop preventing over-compression of seal. O-Ring groove has machined grip holes preventing stretching and tearing during cycling. Secondary atmospheric seal prevents leakage between body halves.

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# DBB5600: Exploded View

## DBB5600: Exploded View

Typical parts breakout. 8" DBB5600 Double Block and Bleed Class 150 displayed.



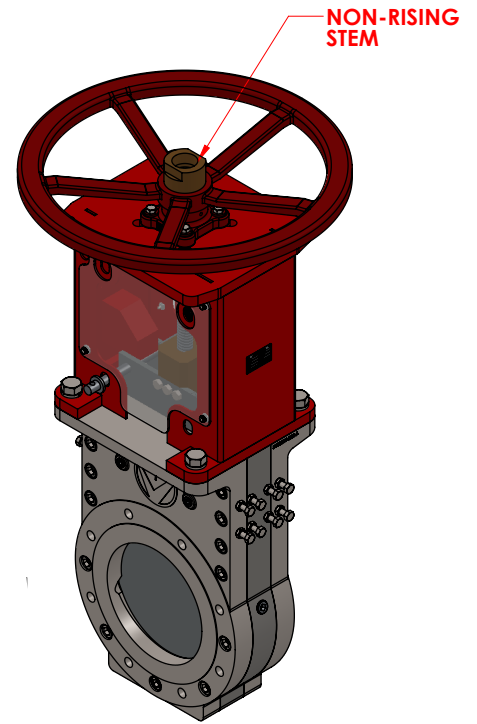
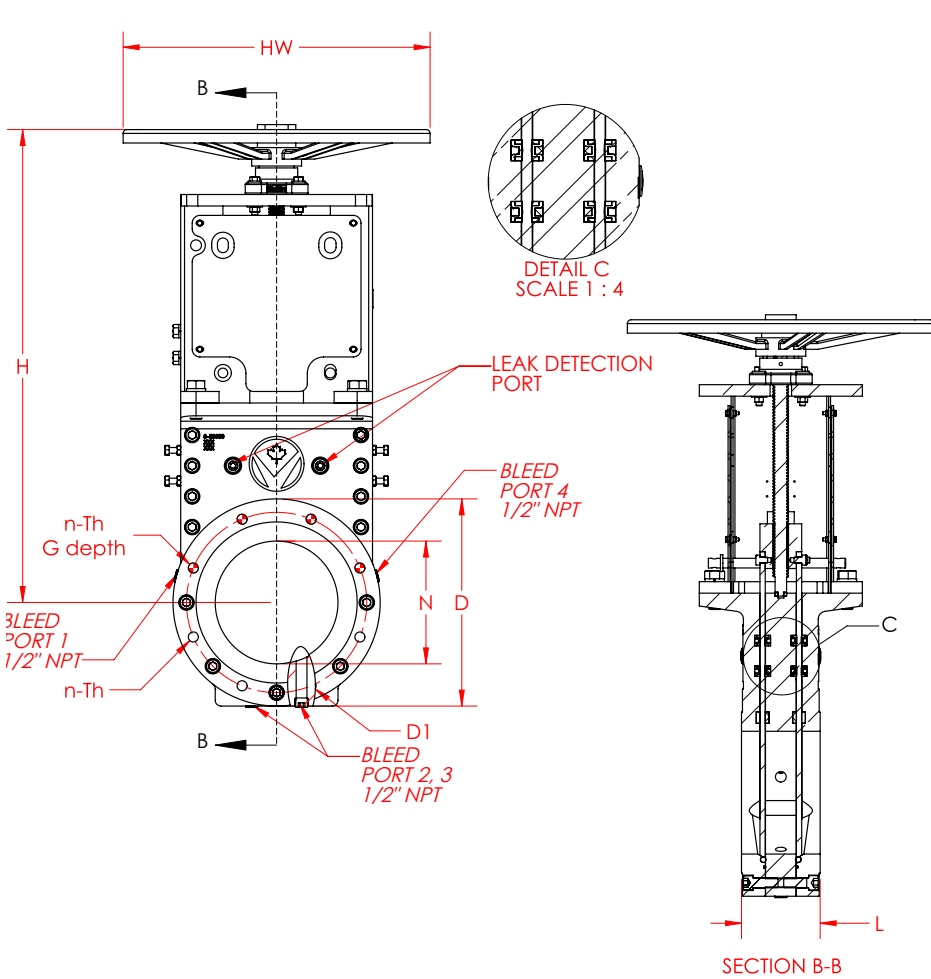
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# DBB5600: Materials

Materials			
Item Number	Part Number	Description	Qty
1	BFC5606-XXX	6" E5600, BODY, CENTER PLATE, FINISHED	1
2	BFD5606-XXX	6" E5600, BODY, DBB, SEAT SIDE, FINISHED	2
3	YKDBB5606-XXX	6" E5600, YOKE, DBB	1
4	CLDBB5606NR-BRZ	6" E5600, DBB CLEVIS	1
5	GFDBB5606-XXX	6" E5600 GATE, DBB, FINISHED	2
6	OR5606-XXX	6" E5600, PERIMETER SEAT	2
7	OR5606AS-XXX	6" E5600, BODY SEAL	2
8	STDBB5606-XXX	6" E5600 DBB, NON-RISING STEM	1
9	TS5606-XXX	6" E5600, TRANSVERSE SEAL	8
10	TSC5606-XXX	6" E5600, CORNER SEAL	8
11	TSS5606-XXX	6" E5600, TRANSVERSE SEAL SCRAPER	16
12	YSS5606-XXX	6" E5600, SAFETY SCREEN	2
13	PK5606-XXX	6" E5600, INJECTABLE PACKING	8
14	LP02-XXX	LOCKOUT PIN 02	1
15	GG01-XXX	GATE GLIDE 01	12
16	TW02NR-XXX	THRUST WASHER 02, NON-RISING STEM, 1"-5 DS LHT STEM	1
17	OPG02-0.75-3/16X3/16	BEVEL GEAR OPERATOR 02, NON-RISING STEM, 3/4" SHAFT, 3/16 SQ. KEY	1
18	FIT-0.25HPP-316	1/4" NPT, SOCKET PIPE PLUG	8
19	HW-FW-#10-UHMW	#10 FLAT WASHER, UHMW	8
20	HW-FW-M10-188	M10 FLAT WASHER, 18-8SS	4
21	HW-FW-M8-188	M8 FLAT WASHER, 18-8SS	1
22	HW-GN-#10-NYL	#10 NYLON GROMMET NUT	8
23	HW-HHCS-#10-24x0.75x0.75-188	#10-24 x 0.75 x 0.75, HEX HEAD CAP SCREW, 18-8SS	8
24	HW-HHCS-0.375-16x0.75x0.75-188	3/8-16 x 0.75 x 0.75, HEX HEAD CAP SCREW, 18-8SS	4
25	HW-HHCS-0.375-16x1x1-188	3/8-16 x 1 x 1, HEX HEAD CAP SCREW, 18-8SS	16
26	HW-HHCS-0.625-11x1.75x1.5-188	5/8-11 x 1.75 x 1.5, HEX HEAD CAP SCREW, 18-8SS	4
27	HW-HHCS-M10x35x35-188	M10 x 35 x 35 HEX HEAD CAP SCREW, 18-8SS	4
28	HW-HHCS-M8x40x22-188	M8 x 40 x 22 HEX HEAD CAP SCREW, 18-8SS	1
29	HW-JM-0.375-16-188	3/8-16 JAM NUT, 18-8SS	16
30	HW-LW-0.375-188	3/8 SPRING LOCK WASHER, 18-8SS	4
31	HW-LW-0.625-188	5/8 SPRING LOCK WASHER, 18-8SS	4
32	HW-SHCS-0.625-11x1.125x1.125-188	5/8-11 x 1.125 x 1.125, SOCKET HEAD CAP SCREW, 18-8SS	26
33	HW-SK-0.1875x0.1875x1.5	3/16 x 3/16 x 1.5 SQUARE KEY	1
41	TAG-01-5622EFEX(275PSI)	E5600-EPDM SEAT (275PSI) KGV NAMEPLATE	1

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# DBB5600: Handwheel

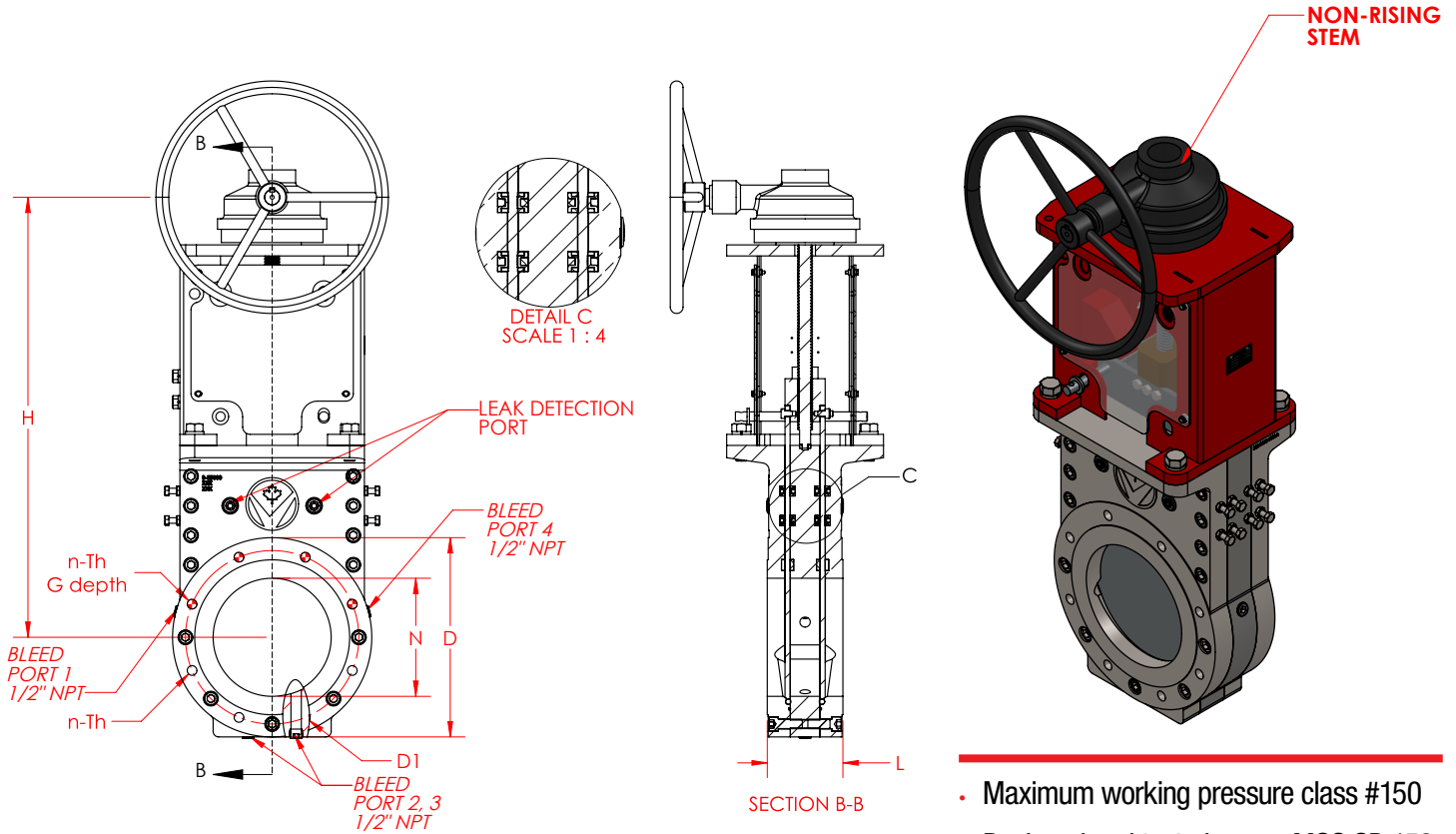


- Maximum working pressure class #150
- Designed and tested as per MSS SP-152, ASME B16-34

Dimensions													
NPS	L	D	D1	N	n-Th	G	H	HW	Weight	Rim Pull			
	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbf @ 50psi ΔP	lbf @ 150psi ΔP	lbf @ 275psi ΔP	
2	3.75	6.0	4.75	2.00	4 X 5/8" - 11	0.50	15.3	12.0	66	12	17	31	
3	3.75	7.5	6.00	3.00	4 X 5/8" - 11	0.50	17.8	12.0	87	12	17	31	
4	3.75	9.0	7.50	4.00	8 X 5/8" - 11	0.50	19.9	12.0	106	17	25	44	
6	4.00	11.0	9.50	6.00	8 X 3/4" - 10	0.60	25.2	20.0	169	23	34	60	
8	5.13	13.5	11.75	8.00	8 X 3/4" - 10	0.60	30.5	20.0	275	23	34	60	
10	5.13	16.0	14.25	10.00	12 X 7/8" - 9	0.63	35.3	20.0	358	50	75	131	
12	5.75	19.0	17.00	12.00	12 X 7/8" - 9	0.65	39.4	20.0	557	50	75	131	

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# DBB5600: Bevel Gear with Handwheel

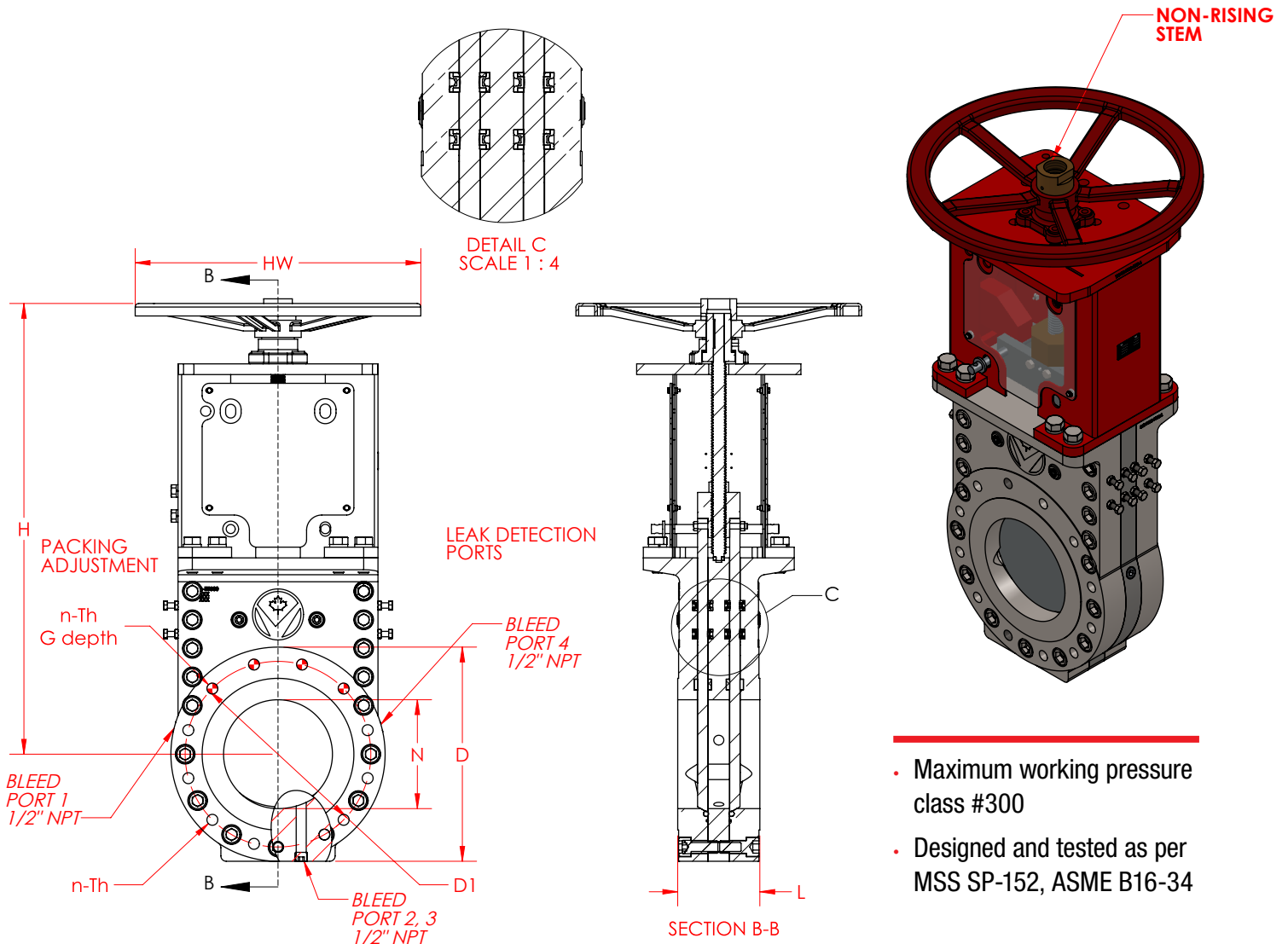


- Maximum working pressure class #150
- Designed and tested as per MSS SP-152, ASME B16-34

Dimensions												
NPS	L	D	D1	N	n-Th	G	H	HW	Weight	Rim Pull		
	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbf @ 50psi ΔP	lbf @ 150psi ΔP	lbf @ 275psi ΔP
2	3.75	6.0	4.75	2.00	4 X 5/8" - 11	0.50	14.9	11.8	74	4	6	10
3	3.75	7.5	6.00	3.00	4 X 5/8" - 11	0.50	17.4	11.8	97	4	6	10
4	3.75	9.0	7.50	4.00	8 X 5/8" - 11	0.50	19.5	11.8	118	6	9	15
6	4.00	11.0	9.50	6.00	8 X 3/4" - 10	0.60	24.8	11.8	188	13	19	34
8	5.13	13.5	11.75	8.00	8 X 3/4" - 10	0.60	29.6	15.7	306	7	11	19
10	5.13	16.0	14.25	10.00	12 X 7/8" - 9	0.63	34.4	15.7	397	16	24	42
12	5.75	19.0	17.00	12.00	12 X 7/8" - 9	0.65	38.5	15.7	619	16	24	42
14	5.75	21.0	18.75	13.25	12 X 1" - 8	0.65	45.7	23.6	866	14	20	35
16	6.50	23.5	21.25	15.25	16 X 1" - 8	0.70	50.4	23.6	1150	14	20	35
18	6.50	25.0	22.75	17.25	16 X 1.125" - 8	0.70	52.4	23.6	1225	22	33	58
20	8.13	27.5	25.00	19.25	20 X 1.125" - 8	0.95	61.4	11.9	2018	13	19	34
24	8.13	32.0	29.25	23.25	20 X 1.25" - 8	0.95	70.7	11.9	2621	26	39	68

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# DBB6600: Handwheel

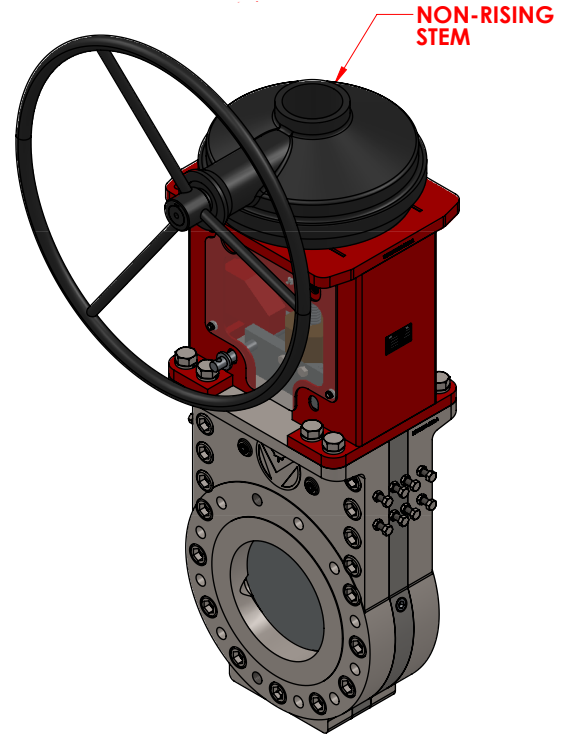
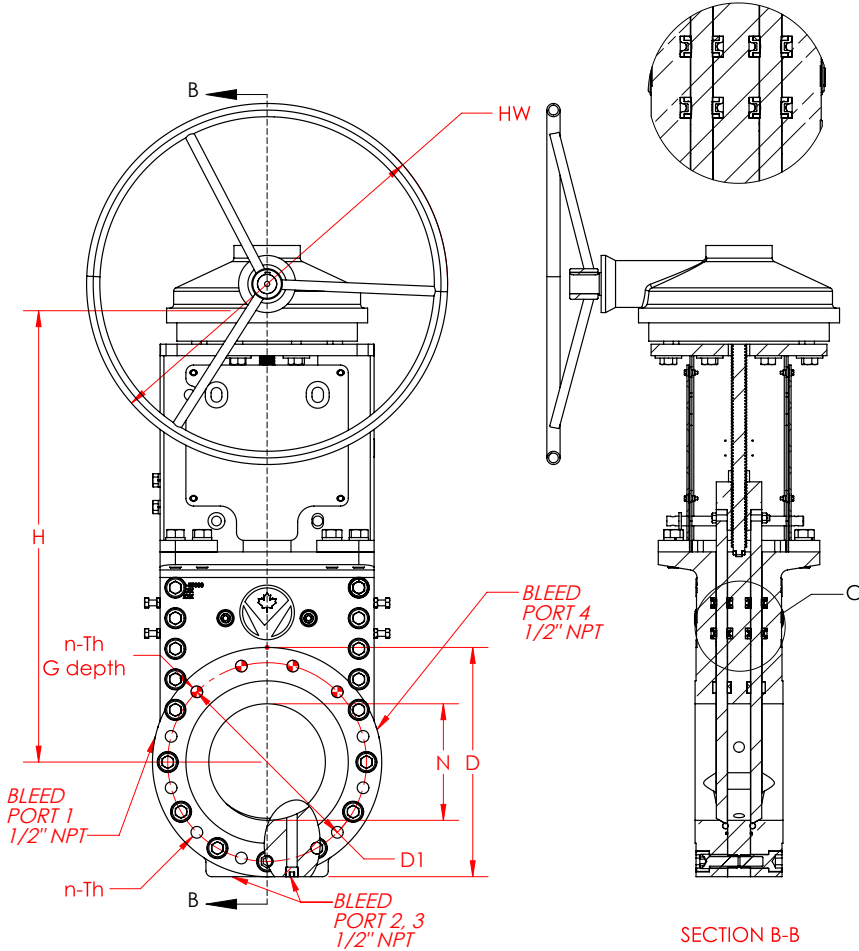


- Maximum working pressure class #300
- Designed and tested as per MSS SP-152, ASME B16-34

Dimensions												
NPS	L	D	D1	N	n-Th	G	H	HW	Weight	Estimated Rim Pull		
	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbf @ 150psi ΔP	lbf @ 300psi ΔP	lbf @ 740psi ΔP
2	5.00	6.5	5.00	1.94	8 X 5/8" - 11	0.77	16.3	15.0	100	19	28	49
3	5.00	8.3	6.62	2.90	8 X 3/4" - 10	0.73	18.8	15.0	141	19	28	49
4	5.00	10.0	7.88	3.83	8 X 3/4" - 10	0.70	20.9	20.0	172	20	30	53
6	5.13	12.5	10.63	5.76	12 X 3/4" - 10	0.83	26.2	20.0	296	46	69	120

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# DBB6600: Bevel Gear with Handwheel



- Maximum working pressure class #300
- Designed and tested as per MSS SP-152, ASME B16-34

Dimensions												
NPS	L	D	D1	N	n-Th	G	H	HW	Weight	Rim Pull		
	inch	inch	inch	inch	inch	inch	inch	inch	lbs	lbf @ 150psi ΔP	lbf @ 300psi ΔP	lbf @ 740psi ΔP
2	5.00	6.5	5.00	1.94	8 x 5/8" - 11	0.77	14.9	15.7	148	4	7	12
3	5.00	8.3	6.62	2.90	8 x 3/4" - 10	0.73	17.4	15.7	193	4	7	12
4	5.00	10.0	7.88	3.83	8 x 3/4" - 10	0.70	19.5	15.7	235	6	10	17
6	5.13	12.5	10.63	5.76	12 x 3/4" - 10	0.83	24.8	15.7	376	15	22	38
8	5.75	15.0	13.00	7.63	12 x 7/8" - 9	0.89	29.6	23.6	612	9	13	23
10	7.75	17.5	15.25	9.56	16 x 1" - 8	1.28	34.4	23.6	795	19	28	49
12	8.50	20.5	17.75	11.38	16 x 1.125" - 8	1.25	38.5	23.6	1238	19	28	49
14	9.38	23.0	20.25	12.50	20 x 1.125" - 8	1.44	45.7	19.7	1732	9	13	23
16	9.63	25.5	22.50	14.31	20 x 1.25" - 8	1.24	50.4	19.7	2300	9	13	23
18	10.63	28.0	24.75	16.13	24 x 1.25" - 8	1.56	52.4	19.7	2451	15	23	40
20	12.75	30.5	27.00	17.94	24 x 1.25" - 8	1.96	61.4	11.9	4036	17	26	45
24	14.88	36.0	32.00	21.56	24 x 1.5" - 8	2.36	70.7	11.9	5243	27	40	70

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# How to Order

## How to Order

1	2	3	4	5	6	7	8	9
Model	Body	Gate	Seat	TopWorks	Transverse Seal / Packing / Scrapers	Operator	Size (in)	Options
XX	X	X	X	X	X	X	X	X

1	Model						
E56	E5600	E66	E6600	DBB56	E5600	DBB66	DBB6600

2	Body					
1	304 SS Cast A351 CF8 Wrought A240	7	Inconel 600 Cast A494 CY40 Wrought B168	P	17-4 PH Cast A747 CB7Cu-1 Wrought A693	
2	316 SS Cast A351 CF8M Wrought A240	8	Hastelloy C276 Cast A494 CW-12MW Wrought B575	N	Ni-Resist Cast A439 D2 Wrought -	
3	317 SS Cast A351 CG8M Wrought A240	9	Alloy 20 Cast A351 CN7M Wrought B463	S	2507 SS Cast A995 Gr. 5A CE3MN Wrought A240	
4	2205 SS Cast A995 Gr. 4A CD3MN Wrought A240	C	Low Temp Carbon Steel Cast A352 LCC Wrought -	T	Titanium Grade 2 Cast B265 Gr. 2 Wrought B265	
5	254 SMO Cast A351 CK3MCuN Wrought A240	D	Ductile Iron Cast A536 60-40-18 Wrought -	W	Carbon Steel Cast A216 WCB Wrought -	
6	420 SS Heat Treated RC50 Cast - Wrought A240	L	904L Cast - Wrought B625			

3	Gate						
1	304 SS Wrought A240	5	254 SMO Wrought A240	9	Alloy 20 Wrought B463	P	17-4 PH Wrought A693
2	316 SS Wrought A240	6	420 SS Heat Treated RC50 Wrought A240	C	Chrome Plated 304 SS Wrought A240	S	2507 SS Wrought A240
3	317 SS Wrought A240	7	Inconel 600 Wrought B168	H	2707 SS -	T	Titanium Wrought B265
4	2205 SS Wrought A240	8	Hastelloy C276 Wrought B575	L	904L Wrought B625	W	Carbon Steel Wrought A516

4	Seat		
A	AFLAS (25°F - 500°F) (-4°C - 260°C)	V	Viton-B (-15°F - 437°F) (-26°C - 225°C)
B	BUNA N (-30°F - 250°F) (-34°C - 121°C)	G	Viton-GFLT (-15°F - 437°F) (-26°C - 225°C)
E	EPDM (-65°F - 265°F) (-54°C - 129°C)	W	Viton-A White (FDA) (-15°F - 437°F) (-26°C - 225°C)
U	Polyurethane (-30°F - 180°F) (-34°C - 82°C)	F	FFKM (5°F - 608°F) (-15°C - 320°C)
S	Viton-GFS (-2°F - 400°F) (-19°C - 204°C)	Z	Special

5	TopWorks				
F	Fabricated Yoke	S	304 SS Stanchions	Y	304 SS Yoke
P	Pressure Bonnet	W	316 SS Yoke		

6	Transverse Seal / Packing / Scrapers		
Standard	PTFE Glide Pucks (500°F, 260°C max) PTFE Injectable Packing (400°F, 204°C max) CE Phenolic Scrapers (257°F, 125°C max)		
A	AFLAS (25°F - 500°F) (-4°C - 260°C)	S	Viton-GFS (-2°F - 400°F) (-19°C - 204°C)
B	BUNA N (-30°F - 250°F) (-34°C - 121°C)	G	Viton-GFLT (-15°F - 437°F) (-26°C - 225°C)
E	EPDM (-65°F - 265°F) (-54°C - 129°C)	W	Viton-A White (FDA) (-15°F - 437°F) (-26°C - 225°C)
U	Polyurethane (-30°F - 180°F) (-34°C - 82°C)	F	FFKM (5°F - 608°F) (-15°C - 320°C)
V	Viton-B (-15°F - 437°F) (-26°C - 225°C)	Z	Special
Substitute Injectable Packing Material			
(F)	FDA PTFE Injectable Packing (400°F, 204°C max)	(G)	Graphite Injectable Packing (1200°F, 650°C max)
Substitute Glide Puck Material			
(H)	Graphite filled PTFE Glide Pucks (500°F, 260°C max)		
Substitute Scraper Material			
(7)	G-7 Phenolic Scrapers (430°F, 220°C max)	(R)	420 SS Heat Treated RC50
(I)	Inconel 600	(B)	Brass
Add Tertiary Braided Rope Packing			
(P)	PTFE	(S)	Graphite

7	Operator				
B	Bare Stem	G(L)	Gear (Inline)	R	Spring Closed (FC)
C	Chainwheel	G(S)	Gear (Spur)	S	Spring Open (FO)
C(N)	Chainwheel with Nut	H	Hydraulic (Cylinder)	T	Ratchet
E	Electric On/Off	M	Mechanical Interlock	W	Handwheel
E(M)	Electric Modulating	L	Lever	W(N)	Handwheel with Nut
G	Gear	N	Nut	X	No Stem (CLA Only)
G(M)	Gear with Mechanical Interlock	P	Pneumatic (HP Cylinder)		
G(N)	Gear with Nut	P(G)	Pneumatic (GP Cylinder)		

8	Size																
02	2	06	6	12	12	18	18	26	26	30	30	36	36	48	48	60	60
03	3	08	8	14	14	20	20	28	28	32	32	42	42	54	54	66	66
04	4	10	10	16	16	24	24										

9	Options				
	None	A	Oversized Cylinder	O	Lockouts
1	Xylan Coated Gate	B	Safety Guards	P	Purge Ports
2	Xylan Coated Wetted Parts	E	Stem Extension	T	Positioner
3	Chrome Coated Gate	F	Air Filter / Reg	Q	Junction Box Kit
4	Nickel Coated Gate	H	Horseshoe	S	Solenoid
7	Silicone Free	G	Energized	V	V-Port
8	NA Content	K	Wear Ring	X	Open/Close Proximity Probes
9	AIS Requirement	N	Non-Rising Stem	Y	Stem Protector

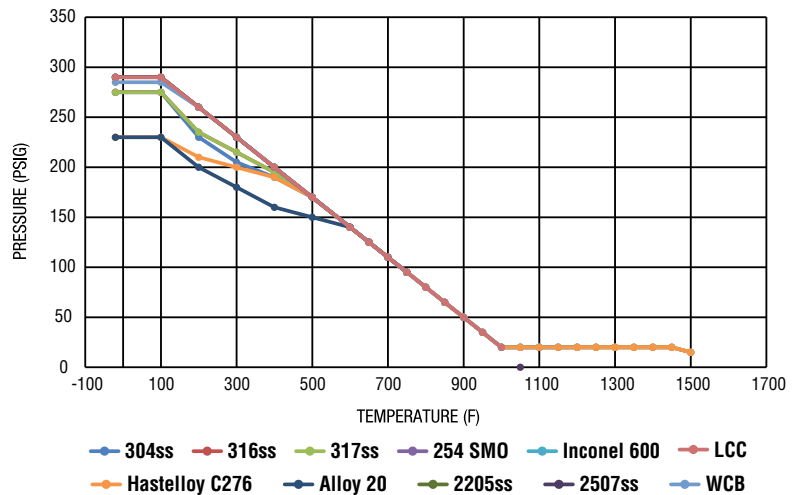
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# Pressure Temperature Rating

Pressure - Temperature Ratings for Class 150 Valves												
Maximum Working Pressure (PSIG)												
Cast	A351 CF8 (1)	A351 CF8M (1)	A351 CG8M (3)	A351 CK3MCuN	A494 CY40	A494 CW-12MW (3) (5)	A351 CN7M (5)	A995 Gr. 4A CD3MN	A995 Gr. 5A CE3MN	A216 WCB (7)	A352 LCC (8)	
UNS	J92600	J92900	J93000	J93254	N06040	N30002	N08007	J92205	J93404	J03002	-	
Wrought	A240	A240	A240	254 SMO	B168	B575	B463	A240	A240	-	-	
Wrought UNS	S30400	S31600	S31700	S31254	N06600 (4)	N10002	N08020	S31803 (6)	S32750 (6)	G10300	-	
Common Name	304ss	316ss	317ss	254 SMO	Inconel 600	Hastelloy C276	Alloy 20	2205ss	2507ss	WCB	LCC	
Material Group	2.1	2.2	2.2	2.8	3.5	3.15	3.17	2.8	2.8	1.1	1.2	
Temperature	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	
°C	°F											
-29	-20	275	275	275	290	290	230	230	290	290	285	290
38	100	275	275	275	290	290	230	230	290	290	285	290
93	200	230	235	235	260	260	210	200	260	260	260	260
149	300	205	215	215	230	230	200	180	230	230	230	230
204	400	190	195	195	200	200	190	160	200	200	200	200
260	500	170	170	170	170	170	170	150	170	170	170	170
316	600	140	140	140	140	140	140	140	140	140	140	140
343	650	125	125	125	125	125	125	125	125	125	125	125
371	700	110	110	110	110	110	110	110	110	110	110	110
399	750	95	95	95	95	95	95	95	95	95	95	95
427	800	80	80	80	80	80	80	80	80	80	80	80
454	850	65	65	65	65	65	65	65	65	65	65	65
482	900	50	50	50	50	50	50	50	50	50	50	50
510	950	35	35	35	35	35	35	35	35	35	35	35
538	1000	20	20	20	20	20	20	20	20	20	20	20
566	1050	20 (2)	20	20	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)
593	1100	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)
621	1150	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)
649	1200	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)
677	1250	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)
704	1300	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)
732	1350	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)
760	1400	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)
788	1450	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)	20 (2)
816	1500	15 (2)	15 (2)	15 (2)	15 (2)	15 (2)	15 (2)	15 (2)	15 (2)	15 (2)	15 (2)	15 (2)

Pressure to Temperature Ratings



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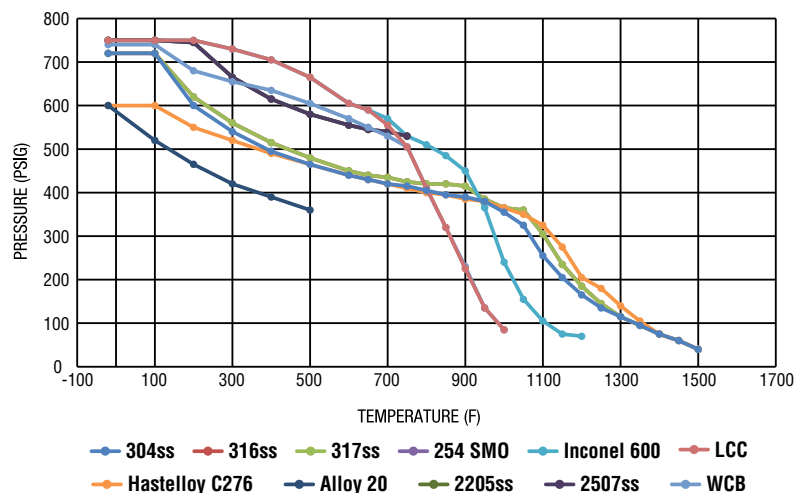
# Pressure Temperature Rating

## Pressure - Temperature Ratings for Class 300 Valves

Maximum Working Pressure (PSIG)												
Cast	A351 CF8 (1)	A351 CF8M (1)	A351 CG8M (3)	A351 CK3M-CuN	A494 CY40	A494 CW-12MW (3) (5)	A351 CN7M (5)	A995 Gr. 4A CD3MN	A995 Gr. 5A CE3MN	A216 WCB (7)	A352 LCC (8)	
UNS	J92600	J92900	J93000	J93254	N06040	N30002	N08007	J92205	J93404	J03002	-	
Wrought	A240	A240	A240	254 SMO	B168	B575	B463	A240	A240	-	-	
Wrought UNS	S30400	S31600	S31700	S31254	N06600 (4)	N10002	N08020	S31803 (6)	S32750 (6)	G10300	-	
Common Name	304ss	316ss	317ss	254 SMO	Inconel 600	Hastelloy C276	Alloy 20	2205ss	2507ss	WCB	LCC	
Material Group	2.1	2.2	2.2	2.8	3.5	3.15	3.17	2.8	2.8	1.1	1.2	
Temperature	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	
°C												
°F												
-29	720	720	720	750	750	600	600	750	750	740	750	
38	720	720	720	750	750	600	520	750	750	740	750	
93	600	620	620	745	750	550	465	745	745	680	750	
149	540	560	560	665	730	520	420	665	665	655	730	
204	495	515	515	615	705	490	390	615	615	635	705	
260	465	480	480	580	665	465	360	580	580	605	665	
316	440	450	450	555	605	440		555	555	570	605	
343	430	440	440	545	590	430		545	545	550	590	
371	420	435	435	540	570	420		540	540	530	555	
399	415	425	425	530	530	410		530	530	505	505	
427	405	420	420		510	400				410	410	
454	395	420	420		485	395				320	320	
482	390	415	415		450	385				230	225	
510	380	385	385		365	380				135	135	
538	355	365	365		240	365				85	85	
566	325	360	360		155	350						
593	255	305	305		105	325						
621	205	235	235		75	275						
649	165	185	185		70	205						
677	135	145	145			180						
704	115	115	115			140						
732	95	95	95			105						
760	75	75	75			75						
788	60	60	60			60						
816	40	40	40			40						

- At temperatures over 1,000°F, use only when the carbon content is 0.04% or higher.
- Flanged-end valve ratings terminate at 1,000°F.
- Not to be used over 1,000°F.
- Use annealed material only.
- Use solution annealed material only.
- This steel may become brittle after service at moderately elevated temperatures. Not to be used over 600°F.
- Upon prolonged exposure to temperatures above 800°F, the carbide phase of steel may be converted to graphite. Permissible, but not recommended for prolonged use above 800°F.
- Not to be used over 650°F.

Pressure to Temperature Ratings



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# Elite Valve



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Our engineers are rewarded for innovative thinking... turning problems into opportunities and advancing product performance. Working closely with our customers is encouraged. Our modus operandi is "Strive to be the very best". It can be seen in the work we do daily. With these few words, we employ years of experience, handcrafting some of the best products available. Our ability to provide both standardized and custom-engineered solutions allows us to meet all your needs, in the most critical of applications.



2305 Wycroft Road  
Oakville, Ontario L6L 6R2



Local: (519) 756-3100  
Toll-Free: (888) 339-7758



[sales@elitevalve.com](mailto:sales@elitevalve.com)