BLOWDOWN VALVES

2026

4000
5000
6000
SERIES

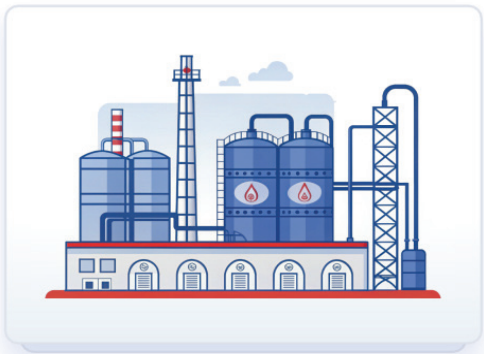
EVERLASTING
VALVE COMPANY
WEARS IN, NOT OUT®

BOILER BLOWDOWN VALVES

4000 / 5000 / 6000 Series

Everlasting **Boiler Blowdown Valves** are available in quick-opening, slow-opening, straight, and angle configurations, making them ideal for:

- Steam-boiler bottom blowdown
- Shut-off and stop-valve service



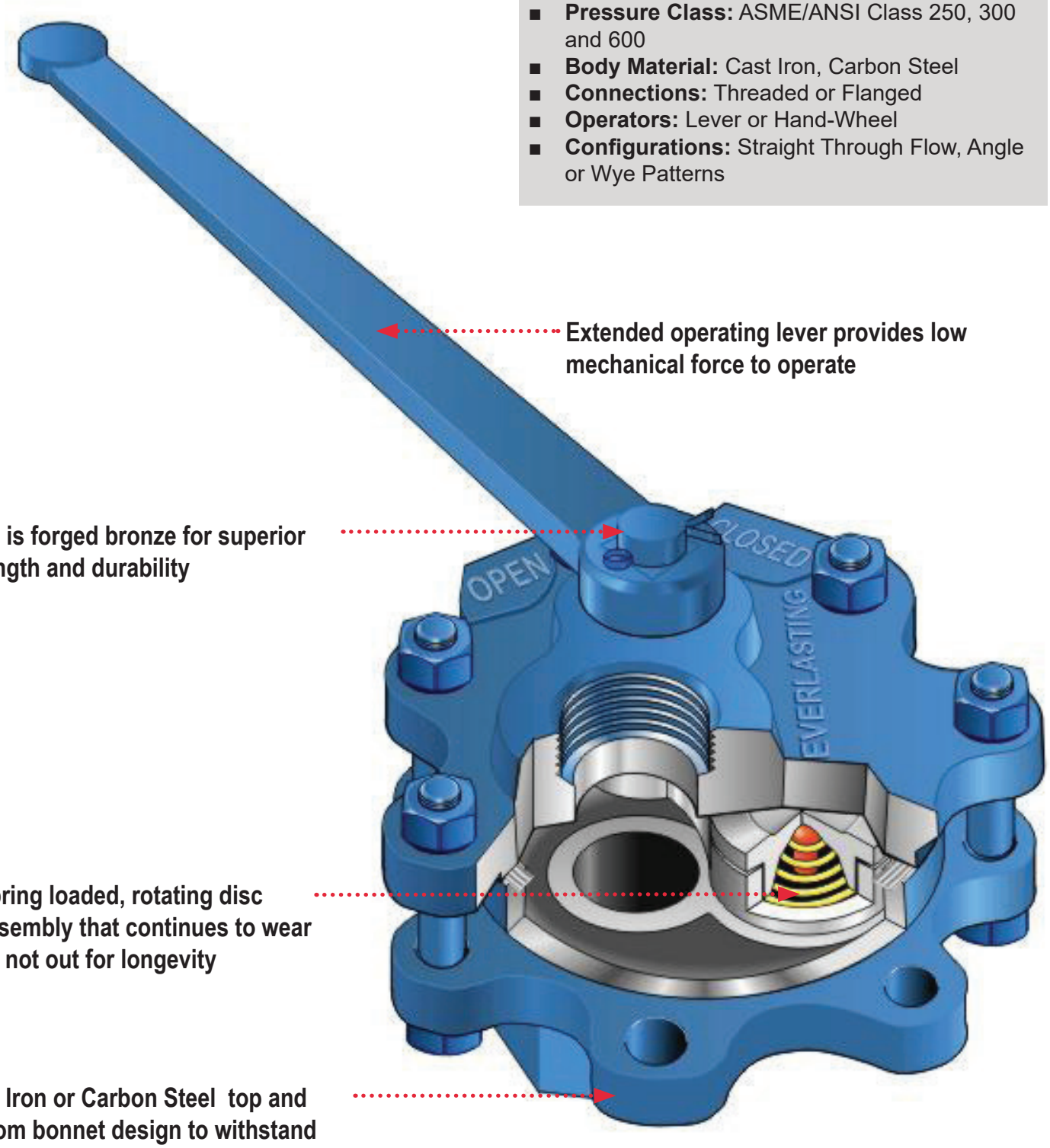
Boiler blowdown service is one of the harshest environments for blowdown valves, experiencing:

- Extremely high temperature and high pressure
- Frequent or intermittent cycling
- Entrained sludge, scale, silica, and solids flow through a valve
- Severe erosion at throttling orifices occurs
- Valve types experience seat washout, galling, packing blowout, and leakage over time.

Everlasting Valve's rotating-disc blowdown design withstands these harsh environments and has been the industry benchmark for over 100+ years.

Boiler Blowdown Valve Specification Range:

- **Sizes:** 1” through 2 ½”
- **Pressure Class:** ASME/ANSI Class 250, 300 and 600
- **Body Material:** Cast Iron, Carbon Steel
- **Connections:** Threaded or Flanged
- **Operators:** Lever or Hand-Wheel
- **Configurations:** Straight Through Flow, Angle or Wye Patterns



Extended operating lever provides low mechanical force to operate

Post is forged bronze for superior strength and durability

Spring loaded, rotating disc assembly that continues to wear in, not out for longevity

Cast Iron or Carbon Steel top and bottom bonnet design to withstand the harsh environments

Boiler Valve Guide

Boiler Valve Mounting - To Meet ASME/ANSI Requirements

ASME/ANSI Requirements

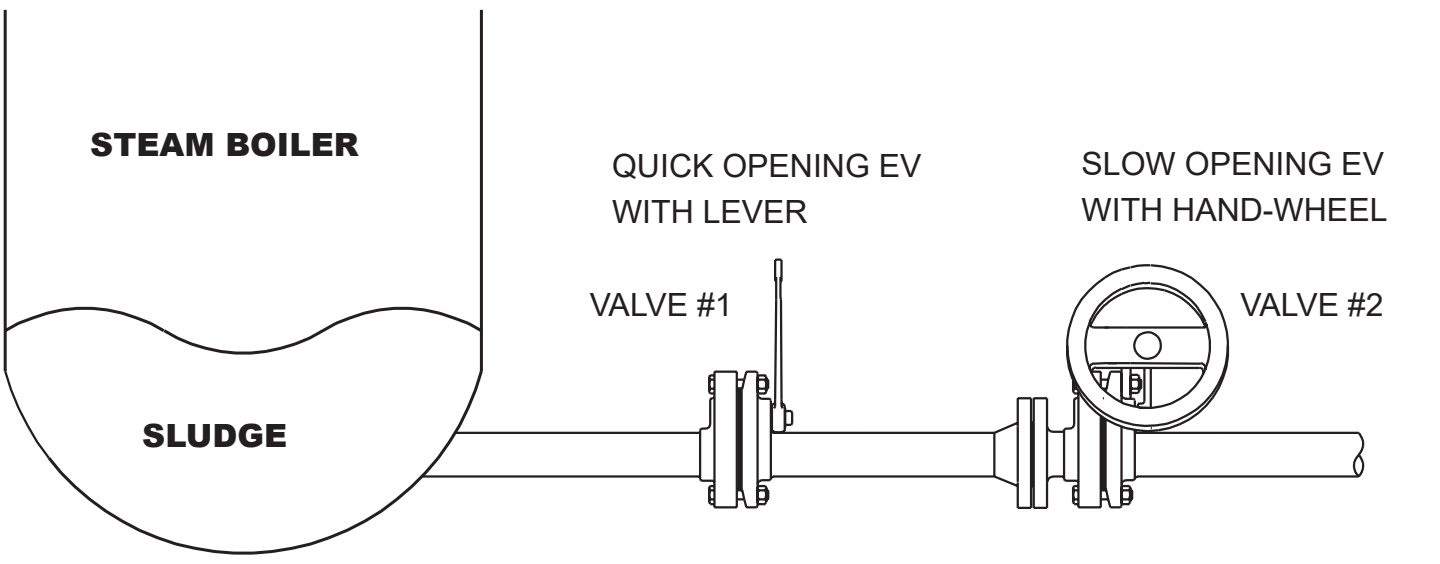
ASME BOILER & PRESSURE VESSEL CODE Section 1 – Power Boilers and ANSI B31.1 – Power Piping Code (SEE NOTE 1)

Service	Reference	Comments
Blow-Off-valves	BPV-1 PG 59.3.5	The minimum size of blow-off pipe and fittings shall be 1 inch. The maximum size shall be 2 1/2 inch. (See code of exceptions on miniature boilers and electric boilers).On boilers with 100 square feet or less of heating surface, 3/4 inch pipe and fittings may be used.
	ANSI B31.1 PARA. 122.1.7 (C.1)	Ordinary globe valves, and other valves with dams or pockets where sediment can collect, shall not be used on blow-off connections.
	(C.4)	Except for electric steam boilers having a normal water content of 100 gallons or less, traction purpose, and portable boilers with allowable working pressure over 100 psig, each bottom blow-off requires two slow-opening valves, or one quick opening valve at the boiler nozzle followed by a slow-opening valve.
	(C.5)	When the value of P required by Paragraph 122.1.4 (A.1) does not exceed 250 psig [1725 kPa (gage)], the valves or cocks shall be bronze, cast iron, ductile iron, or steel. The valves or cocks, if of cast iron, shall not exceed NPS 2 1/2 and shall meet the requirements of the applicable ASME standard for Class 250, as given in Table 126.1, and if of bronze, steel, or ductile iron
	(C.9)	construction, shall meet the requirements of the applicable standards as given in Table 126.1 or Paragraph 124.6.
	(C.10)	Boilers with multiple blow-off pipes may have single master valve on common header with single blow-off valve on each individual pipe. Either master or individual blow-off valves shall be slow opening. Two independent slow opening valves, or a slow opening and a quick opening valve, may be combined in one body provided it is the equivalent of two separate valves and that the failure of one cannot affect the other.

NOTE: These guide lines are based on ASME and ANSI codes at time of printing and are intended to assist you in valve selection. However, they are subject to changes in the codes as they may occur. The actual codes should always be consulted for full details and requirements.

Boiler Valve Placement Example

BOILER BLOW-DOWN VALVE ARRANGEMENT AND BLOW-DOWN VALVE SEQUENCE



Note: Refer to the following table on page 4 for valve application.

Everlasting Boiler Blow-down Valves Fully Meet the Requirements of ASME Boiler and Pressure Vessel Code Section 1: Power Boilers and ANSI B31.1: Power Piping Code.

INSTALLATION:
The quick opening valve is located adjacent to the boiler - installed so flow is behind the disc. The slow opening "blow-down" valve is installed so flow is behind the disc.

Blowdown Sequence:
1) VALVE NO. 1 IS OPENED
2) VALVE NO. 2 IS OPENED
3) VALVE NO. 2 IS CLOSED
4) VALVE NO. 1 IS CLOSED

Blowdown Operation

The boiler blowdown process involves draining a predetermined amount of fluid to remove sludge and maintain boiler performance and extend service life.

Correct blowdown valve operation prevents boiler shock while opening . Refer to the manufacturing specification on number of blowdown valves required and follow all local compliance and regulatory standards as applicable.

Boiler Valves Quick Opening

4000 Series

Features

Boiler Blowdown Valve Specification Range:

- **Pipe Sizes:** 1” through 2½”
- Pressure Class: ASME/ANSI Class 250, 300, and 600
- **Body Materials:** Cast Iron or Carbon Steel
- **End Connections:** Threaded or Flanged
- **Operators:** Lever or Hand-wheel
- Flow Configuration: Straight-through flow design
- **Sealing Design:** Leak-tight, self-lapping seal disc that improves sealing performance with continued use
- **Anti-Fouling Feature:** Self-wiping disc prevents hang-up caused by boiler scale or debris

4000 Series Blowdown Valve Design

Line pressure and heavy spring hold disc firmly against the body seat, sealing off the flow. When operated, the disc slides across the body seat pushing harmful boiler scale away, and wiping clean the precision lapped surface. Hand adjustment of the post packing is eliminated. Post packing is self-adjusted by a spring and line pressure. This prevents destructive erosion and leakage of stuffing box.

Pressure Rating (psig)

Primary Service Rating	Max. Blow-Off Service †	Figure / Series No.	End Types Available	Body Mat’l	**Available Sizes** - Chart shows suggested Operating Pressure limits for easy operation with standard lever and Geared lever. Longer levers are available for higher pressure upon request.				
					1”	1¼”	1½”	2”	2½”
250	200	**4000A** **4001A** **4010A** **4011A**	SCR FLG SCR FLG	Iron	250 250 200 200	250 250 200 215	200 200 215 215	200 200 215 215	100 100 150 150
300	490	**4000S(57)** **4001S(57)** **4010S(57)** **4011S(57)**	SCR FLG SCR FLG	Steel	400 300 300 300	300 300 300 300	300 300 215 215	200 200 215 215	100 100 150 150
600	935	**4000S(58)** **4001S(58)** **4010S(58)** **4311S(58)**	SCR FLG SCR FLG	Steel	550 450 300 300	450 450 300 300	270 270 215 215	200 200 215 215	100 100 150 150

† Pressures shown are maximum allowable per ASME Code.

Boiler Valves Quick Opening

4000 Series

Figure 4000-1.00
Lever Operated

Figure 4001-2.00

Material Data

Figure / Series No.	Body	Post	Disc	Seat Bushing	Lever Arm	Post Packing	Springs	Body Gasket	Operating Wrench
4000A	Cast Iron	Forged Bronze	Cast Iron	---	Ductile Iron	V-Ring Packing	17-7PH	Corrugated Tin Coated CS	Forged Steel
4001A	Cast Iron	Forged Bronze	Cast Iron	---	Ductile Iron	V-Ring Packing	17-7PH	Corrugated Tin Coated CS	Forged Steel
4000S(57)	Steel	Forged Bronze	Hard Stainless	Hard Stainless	Ductile Iron	V-Ring Packing	17-7PH	Corrugated Tin Coated CS	Forged Steel
4001S(57)	Steel	Forged Bronze	Hard Stainless	Hard Stainless	Ductile Iron	V-Ring Packing	17-7PH	Corrugated Tin Coated CS	Forged Steel
4010A	Cast Iron	Forged Bronze	Cast Iron	---	Ductile Iron	V-Ring Packing	17-7PH	Corrugated Tin Coated CS	Ductile Iron
4011A	Cast Iron	Forged Bronze	Cast Iron	---	Ductile Iron	V-Ring Packing	17-7PH	Corrugated Tin Coated CS	Ductile Iron
4010S(57)	Steel	Forged Bronze	Hard Stainless	Hard Stainless	Ductile Iron	V-Ring Packing	17-7PH	Corrugated Tin Coated CS	Ductile Iron
4011S(57)	Steel	Forged Bronze	Hard Stainless	Hard Stainless	Ductile Iron	V-Ring Packing	17-7PH	Corrugated Tin Coated CS	Ductile Iron
4000S(58) **4001S(58)**	Steel	17-4PH Stainless	Hard Stainless	Hard Stainless	Ductile Iron	Carbon Braided	17-7PH	Corrugated Tin Coated CS	Ductile Iron
4010S(58) **4311S(58)**	Steel	17-4PH Stainless	Hard Stainless	Hard Stainless	Ductile Iron	Carbon Braided	17-7PH	Corrugated Tin Coated CS	Ductile Iron

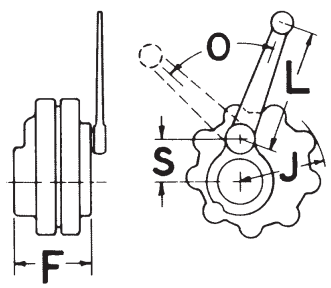
Boiler Valves Quick Opening

4000 Series

Dimensional Data

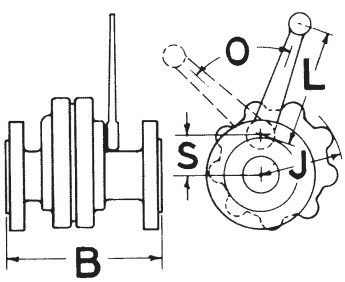
250 LB. QUICK OPENING

All dimensions are in Inches



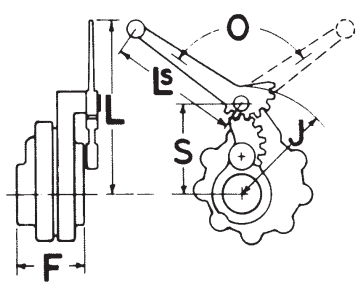
Quick Opening, Fig. 4000A, Iron Body, Threaded End, Straight Lever

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
F	3 ⅝	3 ⅝	4 ½	4 ⅝	5 ¼
J	4	4 ¾	5 ¼	5 ¼	6 ¼
L	9	9	15 ¼	15 ¼	23
O	55	55	55	60	60
S	1 ⅝	1 ¾	2 ⅛	2 3/16	2 ¾



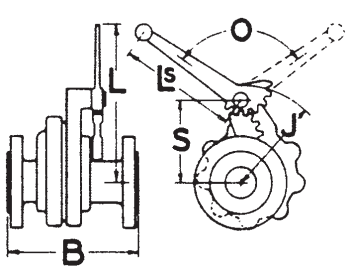
Quick Opening, Fig. 4001A, Iron Body, Flanged End, Straight Lever

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
B	7 ½	7 ½	8 ⅜	9	10 ⅜
J	4	4 ¾	5 ¼	5 ¼	6 ¼
L	9	9	15 ¼	15 ¼	23
O	55	55	55	60	60
S	1 ⅝	1 ¾	2 ⅛	2 3/16	2 ¾



Quick Opening, Fig. 4010A, Iron Body, Threaded End, Rack & Pinion Operator

DIM	1 ½"	2"	2 ½"	
F	4 ½	4 ⅝	5 ¼	
J	5 ¾	6 ¼	7 ¾	
L	18 ¼	18 ⅜	23	
Ls	12 ½	12 ½	15 ½	
O	130	130	130	
S	5	5 ¼	6 ¼	



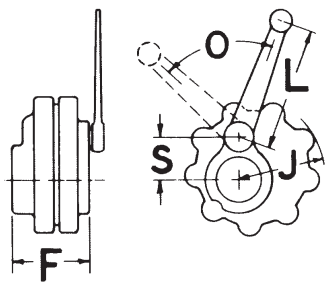
Quick Opening, Fig. 4011A, Iron Body, Flanged, Rack & Pinion Operator

DIM	1 ½"	2"	2 ½"	
B	8 ⅜	9	10 ⅜	
J	5 ¾	6 ¼	7 ¾	
L	18 ¼	18 ⅜	23	
Ls	12 ½	12 ½	15 ½	
O	130	130	130	
S	5	5 ¼	6 ¼	

Dimensional Data

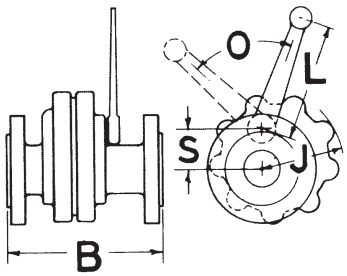
300 LB. QUICK OPENING

All dimensions are in Inches



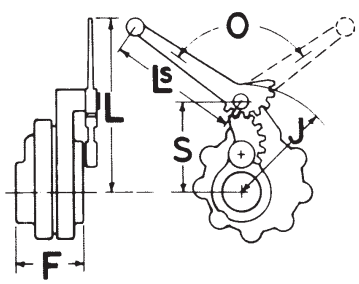
Quick Opening, Fig. 4000S(57), Steel Body, Threaded End, Straight Lever

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
F	5	5 ¼	6	6 ¼	13 ⅜
J	4	4 ¾	5 ¼	5 ¼	6 ¼
L	9	9	15 ¼	15 ¼	23
O	55	55	55	60	60
S	1 ⅝	1 ¾	2 ⅛	2 1/16	2 ¾



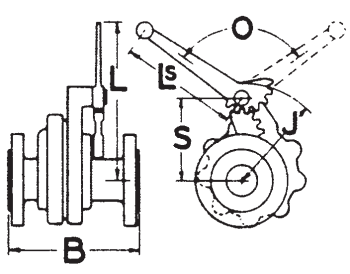
Quick Opening, Fig. 4001S(57), Steel Body, Flanged, Straight Lever

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
B	7 ⅝	7 ⅝	8 ¾	9	12
J	4	4 ¾	5 ¼	5 ¼	6 ¼
L	9	9	15 ¼	15 ¼	23
O	55	55	55	60	60
S	1 ⅝	1 ¾	2 ⅛	2 1/16	2 ¾



Quick Opening, Fig. 4010S(57), Steel Body, Threaded End, Rack & Pinion Operator

DIM	1 ½"	2"	2 ½"	
F	6	6 ¼	13 ⅜	
J	5 ¼	5 ¼	6 ¼	
L	17 ⅝	18	23	
Ls	12 ½	12 ½	15 ½	
O	130	130	130	
S	4 ½	4 ⅞	6 ¼	



Quick Opening, Fig. 4011S(57), Steel Body, Flanged, Rack & Pinion Operator

DIM	1 ½"	2"	2 ½"	
B	8 ⅞	9	12	
J	5 ¼	5 ¼	6 ¼	
L	17 ⅝	18	23	
Ls	12 ½	12 ½	15 ½	
O	130	130	130	
S	4 ½	4 ⅞	6 ¼	

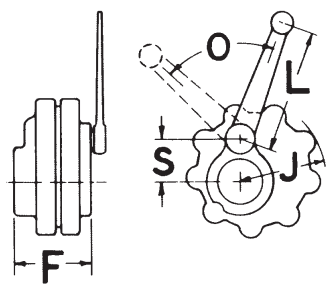
Boiler Valves Quick Opening

4000 Series

Dimensional Data

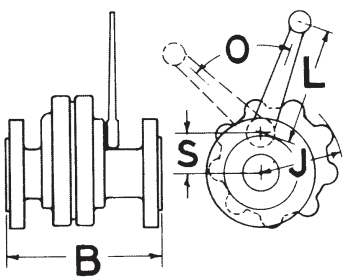
600 LB. QUICK OPENING

All dimensions are in Inches



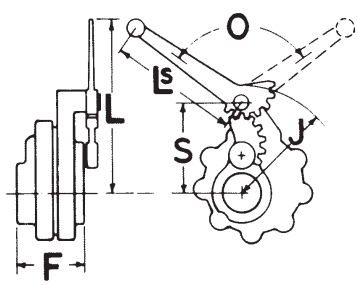
Quick Opening, Fig. 4000S(58), Steel Body, Threaded End, Straight Lever

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
F	5	5 ¼	6	6 ¼	13 ⅜
J	4	4 ¾	5 ¼	5 ¼	6 ¼
L	9	9	15 ¼	15 ¼	23
O	55	55	55	60	60
S	1 ⅝	1 ¾	2 ⅛	2 1/16	2 ¾



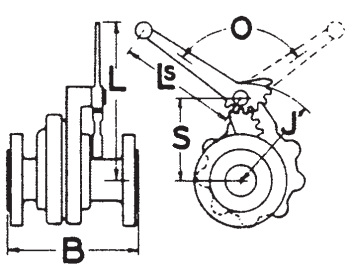
Quick Opening, Fig. 4001S(58), Steel Body, Flanged, Straight Lever

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
B	8 ½	9	10 ½	11 ⅞	15
J	4	4 ¾	5 ¼	5 ¼	6 ¼
L	9	9	15 ¼	15 ¼	23
O	55	55	55	60	60
S	1 ⅝	1 ¾	2 ⅛	2 1/16	2 ¾



Quick Opening, Fig. 4010S(58),Steel Body, Threaded End, Rack & Pinion Operator

DIM	1 ½"	2"	2 ½"		
F	6	6 ¼	13 ⅜		
J	5 ¼	5 ¼	6 ¼		
L	17 ⅝	18	23		
Ls	12 ½	12 ½	15 ½		
O	130	130	130		
S	4 ½	4 ⅞	6 ¼		



Quick Opening, Fig. 4311S(58), Steel Body, Flanged, Rack & Pinion Operator

DIM	1 ½"	2"	2 ½"		
B	10 ½	11 ⅞	15		
J	5 ¼	5 ¼	6 ¼		
L	17 ⅝	18	23		
Ls	12 ½	12 ½	15 ½		
O	130	130	130		
S	4 ½	4 ⅞	6 ¼		

Boiler Valves Quick Opening

4000 Series

Ordering Information

Ordering No.	ANSI VALVE CLASS		Max. Blow-Off Pressure ASME Code	Type	Description	Size	Weight (lbs)
4000A-1.00	250 lb.		200 psi	Quick opening	4000-A Iron Body, Threaded End, Straight Lever	1”	13
4000A-1.25	250 lb.		200 psi	Quick opening	4000-A Iron Body, Threaded End, Straight Lever	1 ¼”	14
4000A-1.50	250 lb.		200 psi	Quick opening	4000-A Iron Body, Threaded End, Straight Lever	1 ½”	23
4000A-2.00	250 lb.		200 psi	Quick opening	4000-A Iron Body, Threaded End, Straight Lever	2”	28
4000A-2.50	250 lb.		200 psi	Quick opening	4000-A Iron Body, Threaded End, Straight Lever	2 ½”	45
4001A-1.00	250 lb.		200 psi	Quick opening	4001-A Iron Body, Flanged End, Straight Lever	1”	24
4001A-1.25	250 lb.		200 psi	Quick opening	4001-A Iron Body, Flanged End, Straight Lever	1 ¼”	24
4001A-1.50	250 lb.		200 psi	Quick opening	4001-A Iron Body, Flanged End, Straight Lever	1 ½”	34
4001A-2.00	250 lb.		200 psi	Quick opening	4001-A Iron Body, Flanged End, Straight Lever	2”	44
4001A-2.50	250 lb.		200 psi	Quick opening	4001-A Iron Body, Flanged End, Straight Lever	2 ½”	69
4010A-1.50	250 lb.		200 psi	Quick opening	4010-A Iron Body, Threaded End, Rack & Pinion Operator	1 ½”	26
4010A-2.00	250 lb.		200 psi	Quick opening	4010-A Iron Body, Threaded End, Rack & Pinion Operator	2”	33
4010A-2.50	250 lb.		200 psi	Quick opening	4010-A Iron Body, Threaded End, Rack & Pinion Operator	2 ½”	43
4011A-1.50	250 lb.		200 psi	Quick opening	4011-A Iron Body, Flanged, Rack & Pinion Operator	1 ½”	26
4011A-2.00	250 lb.		200 psi	Quick opening	4011-A Iron Body, Flanged, Rack & Pinion Operator	2”	33
4011A-2.50	250 lb.		200 psi	Quick opening	4011-A Iron Body, Flanged, Rack & Pinion Operator	2 ½”	43

Note: If valve must hold back pressure, specify double sealing valve. Contact factory for order number.

Boiler Valves - Slow Opening

4000 / 6000 Series

Figure 4060A Shown

Features

Boiler Blow-down Valve Specification Range:

- **Sizes:** 1” through 2½”
- **Pressure Class:** ASME/ANSI Class 200, 300, 600
- **Body Materials:** Cast Iron or Carbon Steel
- **End Connections:** Flanged
- Valve may be installed with the hand-wheel in multiple orientations for installation flexibility
- Straight-through flow design minimizes pressure drop
- **4000 Series:** Self-lapping seal disc improves sealing performance with continued operation
- **4000 Series:** Self-wiping seal disc prevents hang-up from boiler scale or debris
- **4000 Series:** No re-tightening required after cool-down; seal integrity unaffected by temperature changes
- Acme screw thread provides controlled, gradual opening for precise flow management
- **4000 & 6000 Series:** Hardened seat design resists erosion and extends service life
- **6000 Series:** Adjustable packing gland nut ensures optimal sealing and long-term performance

Pressure Rating (psig)

Primary Service Rating	Max. Blow-Off Service †	Figure / Series No.	End Types Available	Body Matl.	**Available Sizes** - Chart shows suggested Operating Pressure limits for easy operation with standard lever and Geared lever. Longer levers are available for higher pressure upon request.			
					1”	1¼”	1½”	2”
250	200	4060A	Threaded	Iron	250	250	250	250
250	200	4061A	Flange	Iron	---	---	250	250
250	200	B6561	Flange	Iron	---	---	250	250
250	200	B6571	Flange	Iron	---	---	250	250
300	490	4060S(57)	Threaded	Steel	605	605	605	605
300	490	4061S(57)	Flange	Steel	605	605	605	605
300	490	B6661	Flange	Steel	---	---	605	605
300	490	B6671	Flange	Steel	---	---	605	605
600	935	4060S(58)	Threaded	Steel	935	935	935	935
600	935	4061S (58)	Flange	Steel	935	935	935	935
600	935	B6761	Flange	Steel	---	---	935	935
600	935	B6771	Flange	Steel	---	---	935	935

† Pressures shown are maximum allowable per ASME Code.

Boiler Valves - Slow Opening

4000 / 6000 Series

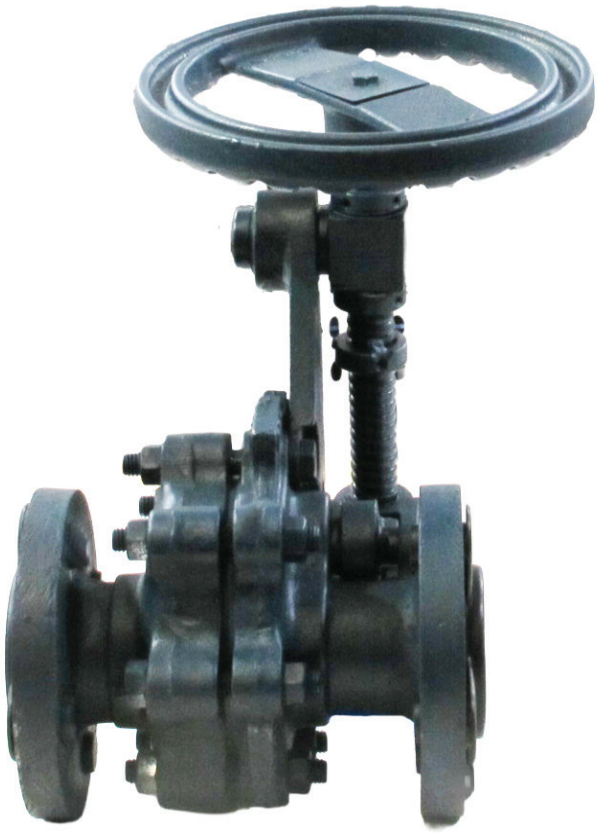


Figure 4061A Shown

How 4060 and 4061 Series operate

Line pressure and heavy spring hold disc firmly against the body seat, sealing off the flow. When operated, the disc slides across the body seat pushing harmful boiler scale away, and wiping clean the precision lapped surfaces. Hand adjustment of the post packing is eliminated. Post packing is self-adjusted by a spring and line pressure. This prevents destructive erosion or leakage of stuffing box.

Figure B6661 Shown

How figure 6000 Series operates

These valves are of the outside Screw and Yoke type. The seat and disc are capable of withstanding the severe erosive flow of low-down service. Adjustable packing gland nut ensures maximum performance and easy maintenance and service.

Boiler Valves - Slow Opening

4000 / 6000 Series

Material Data

Figure No.	Body	Post	Disc	Seat Bushing	Lever Arm	Post Packing	Springs	Body Gasket	Clevis Nut	Hand-wheel	Lever	Screw Shaft
4060A 4061A	Cast Iron	Forged Bronze	Cast Iron	Hard Stainless	Ductile Iron	V-Ring Packing	17-7PH	Corrugated Tin Coated CS	Iron	Iron	Ductile Iron	Steel
4060S(57) 4061S(57)	Carbon Steel	Forged Bronze	Hard Stainless	Hard Stainless	Ductile Iron	V-Ring Packing	17-7PH	Corrugated Tin Coated CS	Iron	Iron	Ductile Iron	Steel
4060S(58) 4061S(58)	Carbon Steel	17-4PH	Hard Stainless	Hard Stainless	Ductile Iron	Carbon Braided	17-7PH	Corrugated Tin Coated CS	Iron	Iron	Ductile Iron	Steel

Material Data

Figure No.	Body	Yoke	Disc	Seat	Stem	Yoke Nut	Yoke Lock Nut	Yoke Bush-ing	Gland	Packing	Seat Gas-kets	Body Gas-ket
B6561	Cast Iron	Cast Iron	Hard Stainless	Stainless	Stainless Steel	Bronze	Bronze	Bronze	Ductile Iron	Comp. Fiber	Grafoil	Grafoil
B6571	Cast Iron	Cast Iron	Hard Stainless	Stainless	Stainless Steel	Bronze	Bronze	Bronze	Ductile Iron	Comp. Fiber	Grafoil	Grafoil
B6661	Cast Steel	Cast Steel	Hard Stainless	Stainless	Stainless Steel	Bronze	Bronze	Bronze	Ductile Iron	Comp. Fiber	Grafoil	Grafoil
B6671	Cast Steel	Cast Steel	Hard Stainless	Stainless	Stainless Steel	Bronze	Bronze	Bronze	Ductile Iron	Comp. Fiber	Grafoil	Grafoil
B6761	Cast Steel	Cast Steel	Hard Stainless	Stainless	Stainless Steel	Bronze	Bronze	Bronze	Ductile Iron	Comp. Fiber	Grafoil	Grafoil
B6761	Cast Steel	Cast Steel	Hard Stainless	Stainless	Stainless Steel	Bronze	Bronze	Bronze	Ductile Iron	Comp. Fiber	Grafoil	Grafoil

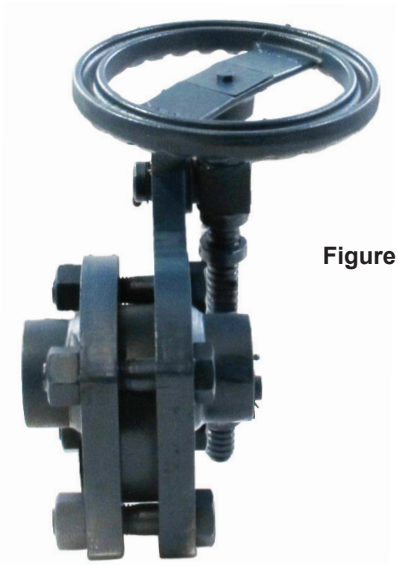
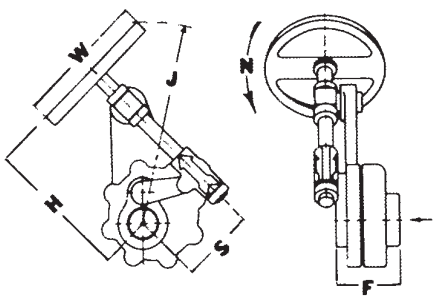


Figure 4060S(57) Shown

Dimensional Data

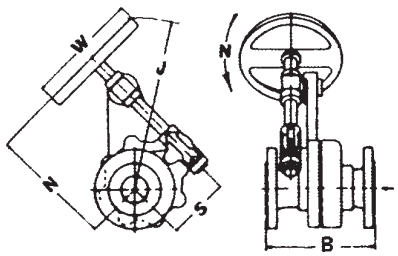
250 LB. SLOW OPENING

All dimensions are in Inches



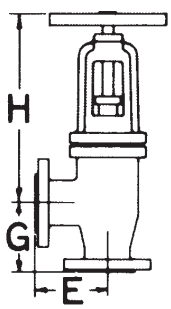
Slow Opening, Fig. 4060A, Iron Body, Threaded End, Wheel Operated

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
F	3 ⅝	3 ⅝	4 ½	4 ⅝	5 ¼
H	8	8	10	10 ½	10 ½
J	13	13	14	14	15 ½
N	9	9 ½	12	12 ½	13 ½
S	5	5	5 ½	5 ½	5 ½
W	9	9	9	9	12



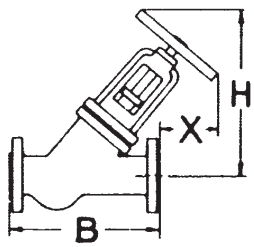
Slow Opening, Fig. 4061A, Iron Body, Flanged, Wheel Operated

DIM	1 ½"	2"	2 ½"		
B	8 ⅜	9	10 ⅜		
H	10	10 ½	10 ½		
J	14	14	15 ½		
N	12	12 ½	13 ½		
S	5 ½	5 ½	5 ½		
W	9	9	12		



Slow Opening, Fig. B6561, Angle, Iron Body, Flanged

DIM	1 ½"	2"	2 ½"		
E	4 ¼	5	6		
G	5	5 ½	5 ¾		
H-Shut	14 ½	15 ⅜	16 ⅜		
H-Open	16 ½	17 ⅞	19 ⅜		



Slow Opening, Fig. B6571, Straightway "Y", Iron Body, Flanged

DIM	1 ½"	2"	2 ½"		
B	12 ¼	12 ¾	14 ¼		
H-Open	15 ¾	17 ¼	18 ½		
X-Open	6 ⅝	7 ⅜	7 ⅝		

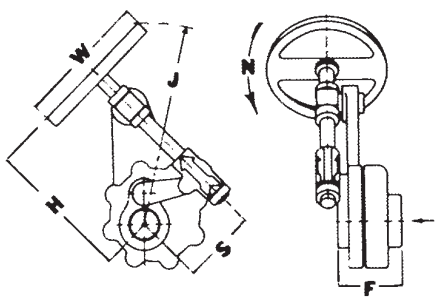
Boiler Valves - Slow Opening

4000 / 6000 Series

Dimensional Data

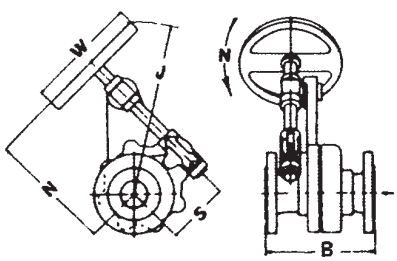
300 LB. SLOW OPENING

All dimensions are in Inches



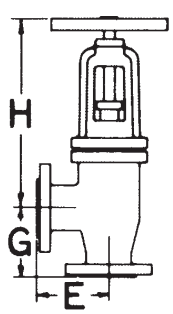
Slow Opening, Fig. 4060S(57), Steel Body, Threaded End, Wheel Operated

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
F	5	5 ¼	6	6 ¼	13 ⅜
H	7 ¼	7 ¼	7 ¼	7 ¼	9 ½
J	11 ½	12	12	12 ½	16
N	11	10	10 ½	13	13
S	4 ¾	4 ¾	5 ¼	5 ¼	6
W	9	9	9	9	12



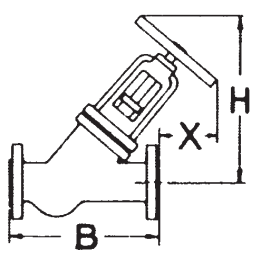
Slow Opening, Fig. 4061S(57), Steel Body, Flanged, Wheel Operated

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
B	7 ⅝	7 ⅝	8 7/8	9	12
H	7 ¼	7 ¼	7 ¼	7 ¼	9 ½
J	11 ½	12	12	12 ½	16
N	11	10	10 ½	13	13
S	4 ¾	4 ¾	5 ⅛	5 ⅛	6 ½
W	9	9	9	9	12



Slow Opening, Fig. B6661, Angle, Steel Body, Flanged

DIM	1	2"	2 ½"	
E	4 ¼	5	6	
G	5	5 ½	5 ¾	
H-Shut	14 ½	15 ⅜	16 ⅜	
H-Open	16 ½	17 ⅞	19 ⅜	



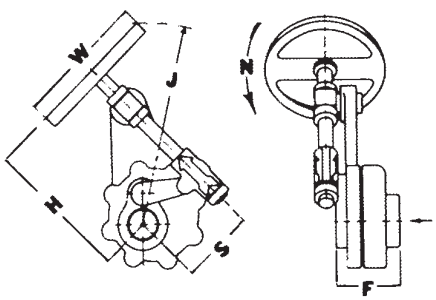
Slow Opening, Fig. B6671, Straightway "Y", Steel Body, Flanged

DIM	1 ½"	2"	2 ½"		
B	12 ¼	12 ¾	14 ¼		
H-Open	15 ¾	17 ¼	18 ½		
X-Open	6 ⅝	7 ⅜	7 ⅝		

Dimensional Data

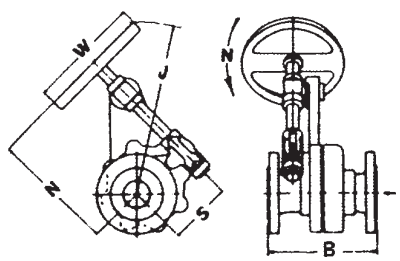
600 LB. SLOW OPENING

All dimensions are in Inches



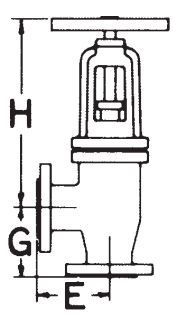
Slow Opening, Fig. 4060S(58), Steel Body, Threaded End, Wheel Operated

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
F	5	5 ¼	6	6 ¼	13 ⅜
H	7 ¼	7 ¼	7 ¼	7 ¼	9 ½
J	11 ½	12	12	12 ½	16
N	11	10	10 ½	13	13
S	4 ¾	4 ¾	5 ⅛	5 ⅛	6 ½
W	9	9	9	9	12



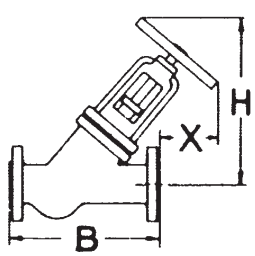
Slow Opening, Fig. 4061S(58), Steel Body, Flanged, Wheel Operated

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
B	8 ½	9	10 ½	11 ⅞	15
H	7 ¼	7 ¼	7 ¼	7 ¼	9 ½
J	11 ½	12	12	12 ½	16
N	11	10	10 ½	13	13
S	4 ¾	4 ¾	5 ⅛	5 ⅛	6 ½
W	9	9	9	9	12



Slow Opening, Fig. B6761, Angle, Steel Body, Flanged

DIM	1 ½"	2"	2 ½"		
E	4 ⅝	5 ¼	6 ¼		
G	5 ⅜	6	6 ¼		
H-Shut	14 ½	15 ⅜	15 ⅞		
H-Open	16 ½	17 ⅞	18 ⅞		



Slow Opening, Fig. B6771, Straightway "Y", Steel Body, Flanged

DIM	1 ½"	2"	2 ½"	
B	12 ⅞	13 ½	15	
H-Open	16 ⅛	17 ¾	19 ⅛	
X-Open	6 ½	7 ⅜	7 ⅞	

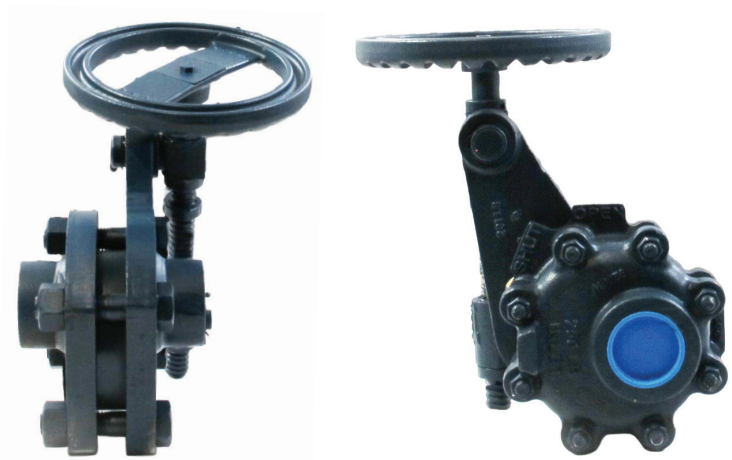
Boiler Valves - Slow Opening

4000 / 6000 Series

Ordering Information

Ordering No.	ANSI VALVE CLASS	Max. Blow-Off Pressure, ASME Code	Description	Size	Weight (lbs)
4060A-1.00	250 lb.	200 psi	Fig. 4060-A, Iron Body, Threaded End, Wheel Operated	1”	27
4060A-1.25	250 lb.	200 psi	Fig. 4060-A, Iron Body, Threaded End, Wheel Operated	1 ¼”	28
4060A-1.50	250 lb.	200 psi	Fig. 4060-A, Iron Body, Threaded End, Wheel Operated	1 ½”	38
4060A-2.00	250 lb.	200 psi	Fig. 4060-A, Iron Body, Threaded End, Wheel Operated	2”	42
4060A-2.50	250 lb.	200 psi	Fig. 4060-A, Iron Body, Threaded End, Wheel Operated	2 ½”	61
4061A-1.50	250 lb.	200 psi	Fig. 4061-A, Iron Body, Flanged, Wheel Operated	1 ½”	48
4061A-2.00	250 lb.	200 psi	Fig. 4061-A, Iron Body, Flanged, Wheel Operated	2”	57
4061A-2.50	250 lb.	200 psi	Fig. 4061-A, Iron Body, Flanged, Wheel Operated	2 ½”	86
B6561-1.50	250 lb.	200 psi	Fig. B6561, Angle, Iron Body, Flanged	1 ½”	75
B6561-2.00	250 lb.	200 psi	Fig. B6561, Angle, Iron Body, Flanged	2”	80
B6561-2.50	250 lb.	200 psi	Fig. B6561, Angle, Iron Body, Flanged	2 ½”	95
B6571-1.50	250 lb.	200 psi	Fig. B6571, Straightway “Y”, Iron Body, Flanged	1 ½”	75
B6571-2.00	250 lb.	200 psi	Fig. B6571, Straightway “Y”, Iron Body, Flanged	2”	80
B6571-2.50	250 lb.	200 psi	Fig. B6571, Straightway “Y”, Iron Body, Flanged	2 ½”	95
4060S(57)-1.00	300 lb.	490 psi	Fig. 4060S(57), Steel Body, Threaded End, Wheel Operated	1”	33
4060S(57)-1.25	300 lb.	490 psi	Fig. 4060S(57), Steel Body, Threaded End, Wheel Operated	1 ¼”	34
4060S(57)-1.50	300 lb.	490 psi	Fig. 4060S(57), Steel Body, Threaded End, Wheel Operated	1 ½”	45
4060S(57)-2.00	300 lb.	490 psi	Fig. 4060S(57), Steel Body, Threaded End, Wheel Operated	2”	48
4060S(57)-2.50	300 lb.	490 psi	Fig. 4060S(57), Steel Body, Threaded End, Wheel Operated	2 ½”	65

Figure 4060A Shown



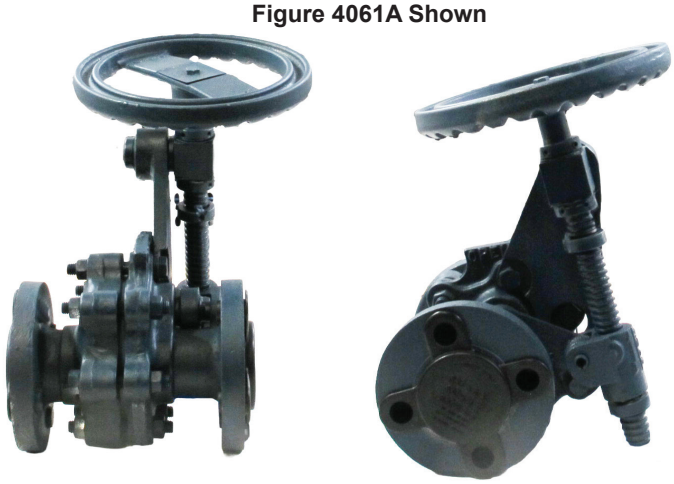
Boiler Valves - Slow Opening

4000 / 6000 Series

Ordering Information

Ordering No.	ANSI VALVE CLASS	Max. Blow-Off Pressure, ASME Code	Description	Size	Weight (lbs)
4061S(57)-1.00	300 lb.	490 psi	Fig. 4061S(57), Steel Body, Flanged, Wheel Operated	1”	39
4061S(57)-1.25	300 lb.	490 psi	Fig. 4061S(57), Steel Body, Flanged, Wheel Operated	1 ¼”	41
4061S(57)-1.50	300 lb.	490 psi	Fig. 4061S(57), Steel Body, Flanged, Wheel Operated	1 ½”	48
4061S(57)-2.00	300 lb.	490 psi	Fig. 4061S(57), Steel Body, Flanged, Wheel Operated	2”	57
4061S(57)-2.50	300 lb.	490 psi	Fig. 4061S(57), Steel Body, Flanged, Wheel Operated	2 ½”	86
B6661-1.50	300 lb.	490 psi	Fig. B6661, Angle, Steel Body, Flanged	1 ½”	77
B6661-2.00	300 lb.	490 psi	Fig. B6661, Angle, Steel Body, Flanged	2”	86
B6661-2.50	300Lb.	490 psi	Fig. B6661, Angle, Steel Body, Flanged	2.5”	120
B6671-1.50	300 lb.	490 psi	Fig. B6671, Straightway “Y”, Steel Body, Flanged	1 ½”	77
B6671-2.00	300 lb.	490 psi	Fig. B6671, Straightway “Y”, Steel Body, Flanged	2”	86
B6671-2.50	300 lb.	490 psi	Fig. B6671, Straightway “Y”, Steel Body, Flanged	2 ½”	120
4060S(58)-1.00	600 lb.	935 psi	Fig. 4060S(58), Steel Body, Threaded End, Wheel Operated	1”	33
4060S(58)-1.25	600 lb.	935 psi	Fig. 4060S(58), Steel Body, Threaded End, Wheel Operated	1 ¼”	34
4060S(58)-1.50	600 lb.	935 psi	Fig. 4060S(58), Steel Body, Threaded End, Wheel Operated	1 ½”	45
4060S(58)-2.00	600 lb.	935 psi	Fig. 4060S(58), Steel Body, Threaded End, Wheel Operated	2”	48
4060S(58)-2.50	600 lb.	935 psi	Fig. 4060S(58), Steel Body, Threaded End, Wheel Operated	2 ½”	65
4061(58)-1.00	600 lb.	935 psi	Fig. 4061S(58), Steel Body, Flanged, Wheel Operated	1”	39
4061(58)-1.25	600 lb.	935 psi	Fig. 4061S(58), Steel Body, Flanged, Wheel Operated	1 ¼”	41
4061(58)-1.50	600 lb.	935 psi	Fig. 4061S(58), Steel Body, Flanged, Wheel Operated	1 ½”	48
B6761-1.50	600 lb.	935 psi	Fig. B6761, Angle, Steel Body, Flanged	1 ½”	77
B6761-2.00	600 lb.	935 psi	Fig. B6761, Angle, Steel Body, Flanged	2”	86
B6761-2.50	600 lb.	935 psi	Fig. B6761, Angle, Steel Body, Flanged	2 ½”	120
B6771-1.50	600 lb.	935 psi	Fig. B6771, Straightway “Y”, Steel Body, Flanged	1 ½”	77
B6771-2.00	600 lb.	935 psi	Fig. B6771, Straightway “Y”, Steel Body, Flanged	2”	86
B6771-2.50	600 lb.	935 psi	Fig. B6771, Straightway “Y”, Steel Body, Flanged	2 ½”	120

Figure 4061A Shown



Boiler Valves - Uni-tandem & Duplex

5000 Series

Figure 5061R Shown

Features

Boiler Blow-down Valve Specification Range:

- **Sizes:** 1½" through 2 1/2"
- **Pressure Class:** ASME/ANSI Class 250, 300
- **Body Materials:** Cast Iron or Carbon Steel
- **End Connections:** Flanged, threaded
- Operators: Lever and/or Hand-wheel
- **Flow Configuration:** Straight-through flow design
- **Sealing Design:** Self-lapping seal disc that improves sealing performance with continued operation
- **Anti-Fouling Feature:** Self-wiping disc prevents hang-up from boiler scale or debris

Dimensional Data - Duplex Valves

Valve Size	Face to Face
2"	13 1/ 2"
2 1/2"	15 5/8"

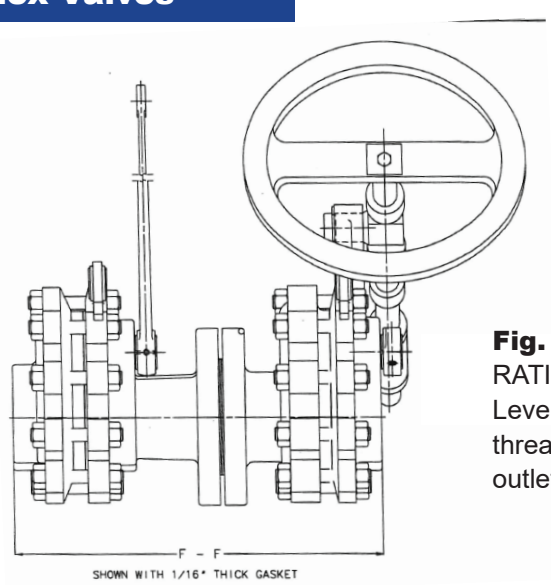


Fig. 4000/1A:
RATING 300 LB.
Lever operated valve; threaded inlet / flanged outlet

Fig. 4061/0A
RATING 250 LB.
Lever operated valve; threaded inlet / flanged outlet

Boiler Valves - Uni-tandem & Duplex

5000 Series

Dimensional Data - Uni-Tandam Valves

STANDARD BOILER VALVE Q/SL FLANGED END 5061L

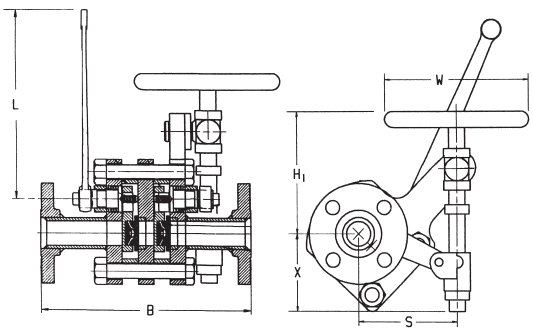


Fig. 5061L: RATING 300 LB.

Figure 5061L	Dimensions					
	B	HI	L	S	W	X
1 1/2	12 1/2	5 1/2	12 1/5	5	9	4 1/8
2	12	8 1/2	18	5	9	4 1/8

STANDARD BOILER VALVE Q/SL FLANGED END 5061R

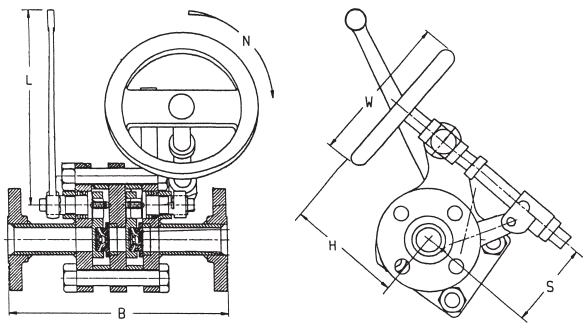


Fig. 5061R: RATING 300 LB.

Figure 5061R	Dimensions					
	B	H	L	N	S	W
1 1/2	11 1/2	6 1/2	12 1/2	10 1/2	5	9
2	12	7	18	13	5	9

How figure 5000 series operate

A combination of quick and slow opening Valves in one body operates the same as figure 4000 series described on quick and slow opening valve pages. The lever operated section is used as the sealing valve and the hand-wheel operated section is the blowing Valve. The blowing Valve can be removed for repair while the sealing Valve remains in service (Fire Banked). All Valve bodies are made of carbon steel and are easy to operate at maximum blow-off pressure.

Ordering Information

Ordering No.	ANSI VALVE CLASS	Max. Blow-Off Pressure, ASME Code	Description	Pipe Size	Weight (lbs)
5061R-1.50	300 lb.	490 psi	Uni-Tandem Valve, Class 300, Steel, Quick-Slow Function	1 ½”	70
5061R-2.00	300 lb.	490 psi	Uni-Tandem Valve, Class 300, Steel, Quick-Slow Function	2”	76
5061L-1.50	300 lb.	490 psi	Uni-Tandem Valve, Class 300, Steel, Quick-Slow Function	1 ½”	70
5061L-2.00	300 lb.	490 psi	Uni-Tandem Valve, Class 300, Steel, Quick-Slow Function	2”	78
4000/1A-2.00	250 lb.	200 psi	Duplex Valve, Class 250, Iron, Threaded	2”	35
4000/1A-2.50	250 lb.	200 psi	Duplex Valve, Class 250, Iron, Threaded	2 ½”	58
4061/0A-2.00	250 lb.	200 psi	Duplex Valve, Class 250, Iron, Threaded	2”	50
4061/0A-2.50	250Lb.	200 psi	Duplex Valve, Class 250, Iron, Threaded	2 ½”	65

Frequently Asked Questions

Everlasting Valves

Valve Information

Our company manufactures four different types of valves that are designed to meet the needs of a huge range of severe applications. We manufacture a process valve that's ANSI Class rated for handling dry abrasives and slurries to 1500°F and up to 10,000 psi. The process valve is fully customizable and available in virtually any body material, trim, or actuator. Our bulk material valve, or BMV, is designed to handle dry abrasives in pressures up to 100 psi. It is available in single or bi-directional sealing, in cast iron or carbon steel for temperatures up to 550°F or in carbon steel only for temperatures up to 750°F. We also manufacture a diverging/converging valve in cast iron or fully customizable fabricated designs for handling of dry abrasives and slurries. Our steam-boiler-blowdown valves, the first valves produced by Everlasting Valve, meet ASME/ANSI Boiler & Pressure Vessel Code for blow-off service. Our valves can replace ball valves, gate valves, globe valves, and pinch valves in a variety of applications.

Valve Design

Nope! Our open-body design allows fines to move about freely, preventing accumulation that binds up moving parts and damages seats in other valve designs. As the rotating discs cycle through the body, they displace the media that's swirling about the valve so that it's cleanly discharged.

The materials we work with are exceptionally harsh and abrasive. What kinds of materials can your valves handle?

Our valves literally have never met a material they can't handle. Battle-tested in the toughest, harshest industrial apps in the world, from hot-catalyst handling to fluid-catalytic cracking, our valves can handle any type of slurry, dry solid, sludge, abrasive, or other erosive material you can throw at them, and they'll just keep coming back for more, year after year, even decade after decade! Gate valves, ball valves, and other valves are simply no match for an Everlasting valve.

How does disc rotate?

The actuator moves the post and lever arm, which drives the disc. The entire sealing surface of the disc is constantly in contact with the seat through force exerted by springs. These springs allow the disc to move vertically, which compensates for thermal expansion and contraction of the valve's components—also overcoming the effect of any back pressure for which it was designed—and prevents particles from lodging between the sealing surfaces. Differences in tangential disc-to-seat-friction forces cause the disc to rotate on its seat as the valve cycles, thereby shearing and wiping away any process material that may accumulate while also polishing the sealing surfaces.

What temperature extremes can your valves handle?

Our valves are rated to handle extremely low temps, down to -50oF as well as extraordinarily high temps all the way up to 1500oF and everything in between!

Valve Design

Nope! Our open-body design allows fines to move about freely, preventing accumulation that binds up moving parts and damages seats in other valve designs. As the rotating discs cycle through the body, they displace the media that's swirling about the valve so that it's cleanly discharged.

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Do you have a valve currently in service in my application?

valves, globe valves, or pinch valves are currently in use, there are Everlasting valves in the same types of applications, doing a better job at handling the abrasive media that even the toughest environments throw at them. We design and build custom valves for virtually all types of severe-service applications, so it's a sure bet our valves will meet your industrial-plant needs. Want to hear more about some real-life examples? Just give us a call!

Can you come to my site and discuss my requirements?

Yes! That's generally our first step whenever we're called in to customize a valve for a customer. This way, we're able to evaluate your unique plant environment and learn about your needs and challenges first-hand.

I do not see a valve that meets my needs/fits my application. Do you design and manufacture special valves?

Yes! Our valve technology is based on an extremely flexible design, and our engineering team is exceptionally talented. We're confident we can custom-build a valve that will meet your needs. Please complete the Request for Quote form and we will be happy to discuss it with you and develop a valve design to meet your requirements.

Compliance & Standards

Everlasting Valves

Everlasting Valve Company is commitment to quality is evident in everything we do, from raw material receipt to how we support our customers years after they purchase our products. Our brands are registered to ISO 9001 international quality standard, which requires compliance with standards for management, administration, product development, manufacturing, and continuous improvement.

ISO 9001:2015 certified by DNV

ISO 9001 international quality standard, which requires compliance with standards for management, administration, product development, manufacturing and continuous improvement. Our registration verifies that the Everlasting Valve company has adopted and maintains documentation for processes ranging from suppliers to customers, inspection, handling and training. ISO 9001 also requires periodic internal and external audits to ensure all aspects of work affecting quality control are monitored.

ASME B30.1 and ASME B40.1

Everlasting Valve company comply with the criteria set forth in the American Society of Mechanical Engineers standards.

The valves are designed in accordance with the following industry standards: ASME B31.3; ASME Section VIII, Division 1; ASME Section VIII, Division 2.Everlasting Valves and actuating systems can be supplied with the CE stamp in accordance with the European Pressure Equipment Directive (PED) and comply with the European Directive for Equipment and Protective Systems in potentially Explosive Atmospheres (ATEX). Other certifications are available upon request.

Boiler Blow-down valves adhere to:

ASME SECTION 1 - Power Boilers

ANSI B31.1 - Power Piping

ANSI B16.1 - Cast Iron flanges and Flanged Fittings

ANSI B16.34 - Valves– Flanged, Threaded & W.E.

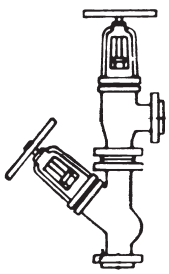
CE & UKCA Mark

Everlasting Valve Company is committed to designing, manufacturing and marketing products that meet or exceed the needs of the customers we serve. Everlasting Valve Company supplies a Declaration of Conformity and the CE Marking / UKCA Marking for products that are within the scope and conform to at least one European Community CE Regulation or Directive, respectively a relevant UK Statutory Instrument. Note : Not all products are within such scope and subsequently may not be eligible to carry a CE / UKCA mark. In such cases and if a confirmation regarding the safety and/or applicability of the product is requested, please contact the factory for clarification (e.g. Manufacturer Declaration). Please note that such a request must be submitted at the time a product is ordered.

Typical System Arrangements1

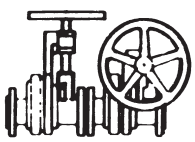
Everlasting Valves

Example System Arrangements



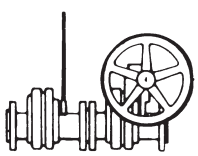
Two Slow Opening - 300 LB.

Fig. B6671 / B6661



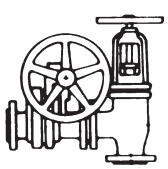
Two Slow Opening - 300 LB.

Fig. 4060S(57) / 4060S(57) or 4061S(57) / 4061S(57)



One Quick — One Slow Opening - 300 LB.

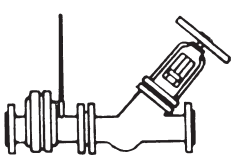
Fig. 4011S(57) / 4061S(57)



One Slow — One Slow Opening - 300 LB.

Fig. 4061A / B6561 or

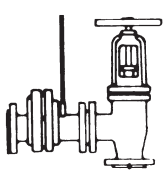
4061S(57) / B6661 or 4061S(58) / B6761



One Quick — One Slow Opening - 300 LB.

Fig. 4001S(57) / B6671 or 4011S(57) / B6671

300 LB. 4011S(57) / 4061S(57)



One Quick — One Slow Opening - 300 LB.

Fig. 4001S(57) / B6661 or 4011S(57) / B6661

Measurement and Symbols

Everlasting Valves

EVERLASTING VALVE COMPANY
WEARS IN, NOT OUT®

Service Excellence in Action

When you choose Everlasting Valve Company, you're not just selecting a product—you're gaining a partner dedicated to long-term performance and support. Our commitment to service extends far beyond standard maintenance or repair. It means timely access to our knowledgeable team of engineers and service professionals—ready to respond anytime, anywhere your operations demand.

At Everlasting, we pride ourselves on becoming an extension of your team. You can count on us to take ownership of every challenge and deliver practical, lasting solutions. When issues arise, our technical experts go beyond the symptoms to uncover the true cause. We evaluate your complete system to identify and resolve problems with precision and care.

Our comprehensive service approach is designed to maximize equipment reliability, enhance operational efficiency, and reduce total cost of ownership.

Contact us today for your next project!

Whether you are requesting a quote, need more information, or want to discuss customized valves that address your specific requirements, just let us know. Everlasting Valve is committed to providing prompt, responsive service, every time.

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