

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.



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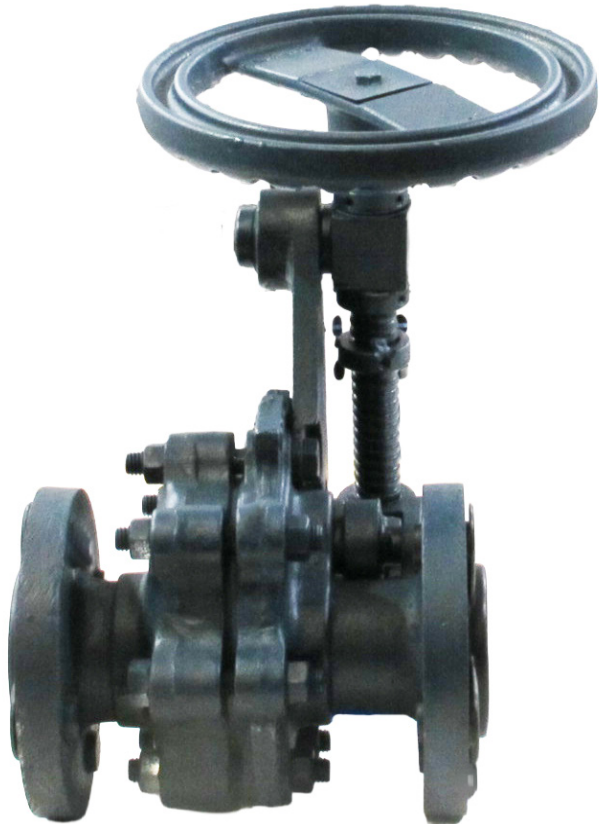


Figure 4061A Shown



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.



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.



Figure B6661 Shown

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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 Bushing	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

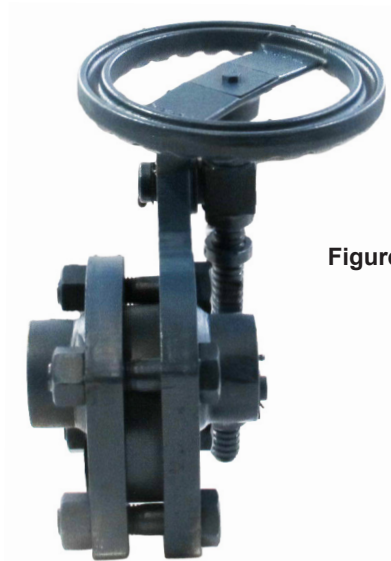


Figure 4060S(57) Shown



Boiler Valves - Slow Opening

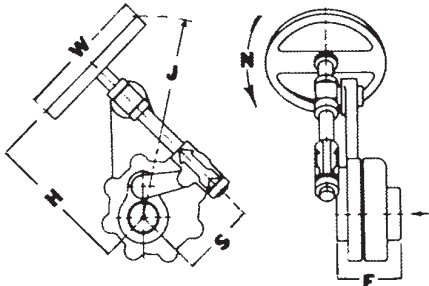
4000 / 6000 Series

Dimensional Data

250 LB. SLOW OPENING

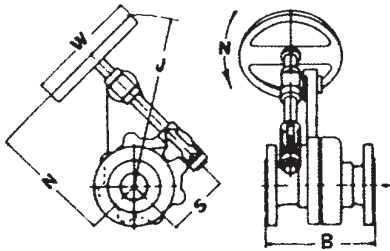
All dimensions are in Inches

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



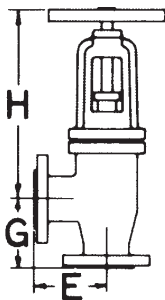
DIM	1"	1 1/4"	1 1/2"	2"	2 1/2"
F	3 5/8	3 5/8	4 1/2	4 5/8	5 1/4
H	8	8	10	10 1/2	10 1/2
J	13	13	14	14	15 1/2
N	9	9 1/2	12	12 1/2	13 1/2
S	5	5	5 1/2	5 1/2	5 1/2
W	9	9	9	9	12

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



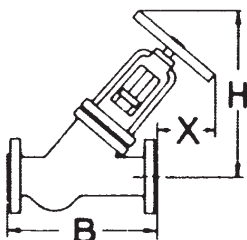
DIM	1 1/2"	2"	2 1/2"		
B	8 3/8	9	10 3/8		
H	10	10 1/2	10 1/2		
J	14	14	15 1/2		
N	12	12 1/2	13 1/2		
S	5 1/2	5 1/2	5 1/2		
W	9	9	12		

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



DIM	1 1/2"	2"	2 1/2"		
E	4 1/4	5	6		
G	5	5 1/2	5 3/4		
H-Shut	14 1/2	15 3/8	16 3/8		
H-Open	16 1/2	17 7/8	19 3/8		

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



DIM	1 1/2"	2"	2 1/2"		
B	12 1/4	12 3/4	14 1/4		
H-Open	15 3/4	17 1/4	18 1/2		
X-Open	6 5/8	7 3/8	7 3/8		

Boiler Valves - Slow Opening

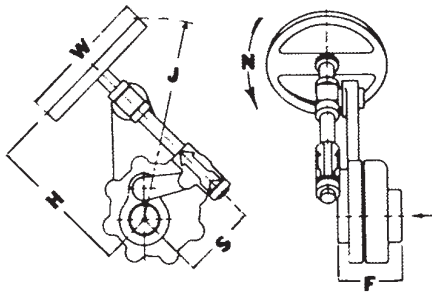
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Dimensional Data

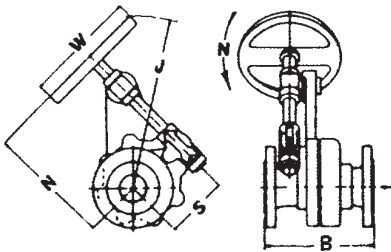
300 LB. SLOW OPENING

All dimensions are in Inches



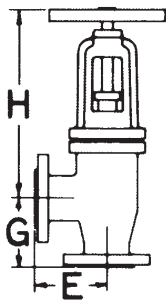
Slow Opening, Fig. 4060S(57), Steel Body, Threaded End, Wheel Operated

DIM	1"	1 1/4"	1 1/2"	2"	2 1/2"
F	5	5 1/4	6	6 1/4	13 3/8
H	7 1/4	7 1/4	7 1/4	7 1/4	9 1/2
J	11 1/2	12	12	12 1/2	16
N	11	10	10 1/2	13	13
S	4 3/4	4 3/4	5 1/4	5 1/4	6
W	9	9	9	9	12



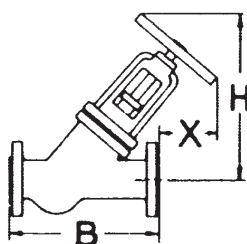
Slow Opening, Fig. 4061S(57), Steel Body, Flanged, Wheel Operated

DIM	1"	1 1/4"	1 1/2"	2"	2 1/2"
B	7 5/8	7 5/8	8 7/8	9	12
H	7 1/4	7 1/4	7 1/4	7 1/4	9 1/2
J	11 1/2	12	12	12 1/2	16
N	11	10	10 1/2	13	13
S	4 3/4	4 3/4	5 1/8	5 1/8	6 1/2
W	9	9	9	9	12



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

DIM	1"	2"	2 1/2"	
E	4 1/4	5	6	
G	5	5 1/2	5 3/4	
H-Shut	14 1/2	15 3/8	16 3/8	
H-Open	16 1/2	17 7/8	19 3/8	



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

DIM	1 1/2"	2"	2 1/2"	
B	12 1/4	12 3/4	14 1/4	
H-Open	15 3/4	17 1/4	18 1/2	
X-Open	6 5/8	7 3/8	7 5/8	



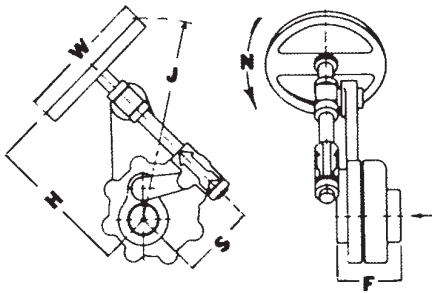
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Dimensional Data

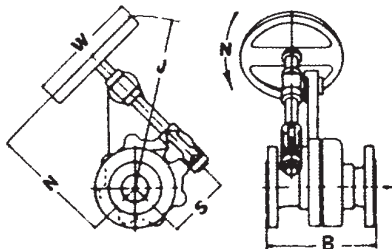
600 LB. SLOW OPENING

All dimensions are in Inches



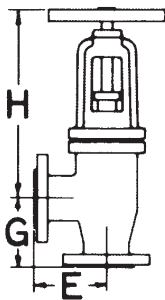
Slow Opening, Fig. 4060S(57), Steel Body, Threaded End, Wheel Operated

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
F	5	5 ¼	6	6 ¼	13 ¾
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 ⅝	5 ⅝	6 ½
W	9	9	9	9	12



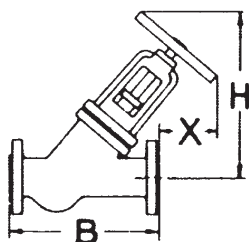
Slow Opening, Fig. 4061S(57), Steel Body, Flanged, Wheel Operated

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
B	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 ⅝	5 ⅝	6 ½
W	9	9	9	9	12



Slow Opening, Fig. B6661, 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 ⅝	15 ⅞		
H-Open	16 ½	17 ⅞	18 ⅞		



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

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

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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





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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

