

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	SCR	Iron	250	250	200	200	100
		4001A	FLG		250	250	200	200	100
		4010A	SCR		200	200	215	215	150
		4011A	FLG		200	215	215	215	150
300	490	4000S(57)	SCR	Steel	400	300	300	200	100
		4001S(57)	FLG		300	300	300	200	100
		4010S(57)	SCR		300	300	215	215	150
		4011S(57)	FLG		300	300	215	215	150
600	935	4000S(58)	SCR	Steel	550	450	270	200	100
		4001S(58)	FLG		450	450	270	200	100
		4010S(58)	SCR		300	300	215	215	150
		4311S(58)	FLG		300	300	215	215	150

† Pressures shown are maximum allowable per ASME Code.



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**Figure 4000-1.00
Lever Operated**

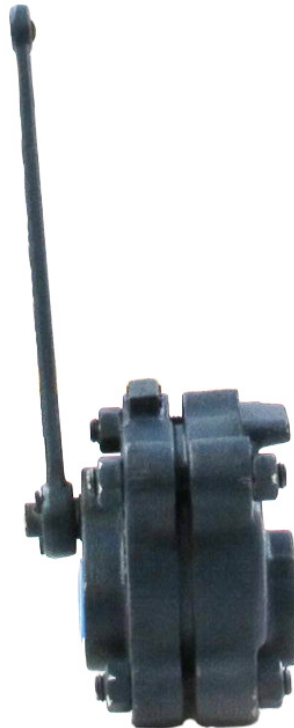


Figure 4001-2.00



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

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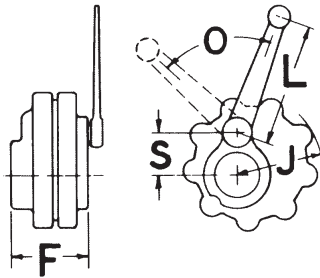
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Dimensional Data

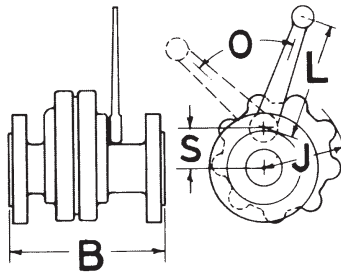
250 LB. QUICK OPENING

All dimensions are in Inches



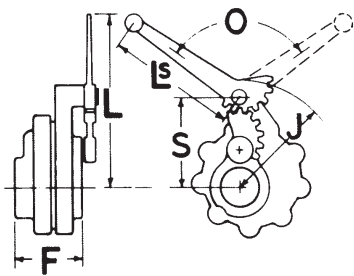
Quick Opening, Fig. 4000A, Iron Body, Threaded End, Straight Lever

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 ⅝	2 3/16	2 ¾



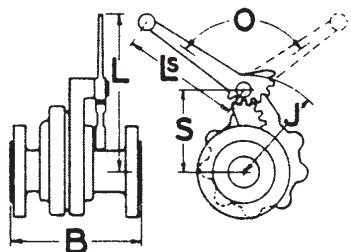
Quick Opening, Fig. 4001A, Iron Body, Flanged End, Straight Lever

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
B	7 ½	7 ½	8 ⅝	9	10 ⅝
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 ⅝	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 ⅝	9	10 ⅝
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



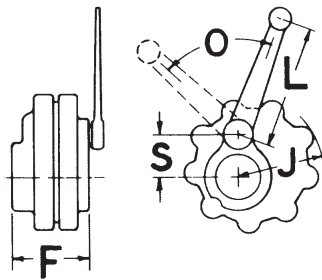
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Dimensional Data

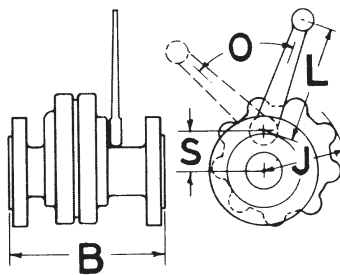
300 LB. QUICK OPENING

All dimensions are in Inches



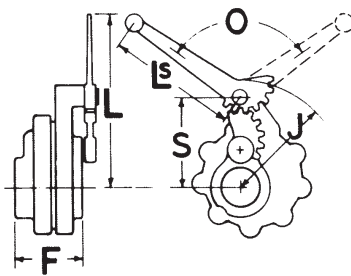
Quick Opening, Fig. 4000S(57), Steel Body, Threaded End, Straight Lever

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
F	5	5 ¼	6	6 ¼	13 ¾
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 ⅞	2 1/16	2 ¾



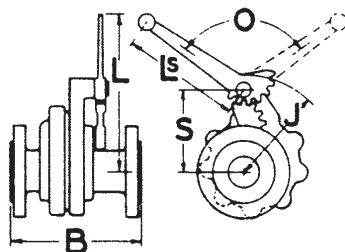
Quick Opening, Fig. 4001S(57), Steel Body, Flanged, Straight Lever

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 ⅞	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 ¾
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

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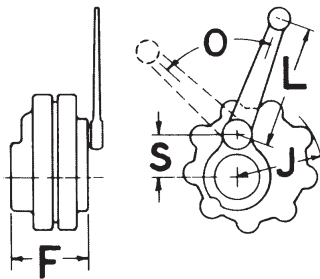
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Dimensional Data

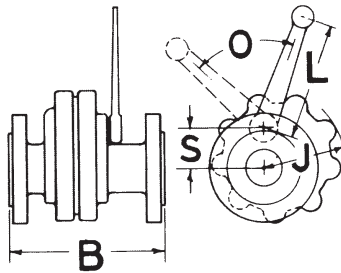
600 LB. QUICK OPENING

All dimensions are in Inches



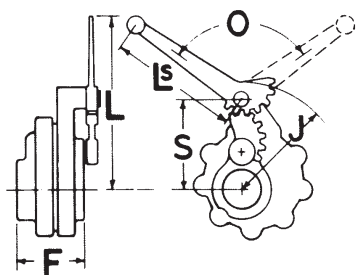
Quick Opening, Fig. 4000S(58), Steel Body, Threaded End, Straight Lever

DIM	1"	1 ¼"	1 ½"	2"	2 ½"
F	5	5 ¼	6	6 ¼	13 ¾
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 ⅞	2 1/16	2 ¾



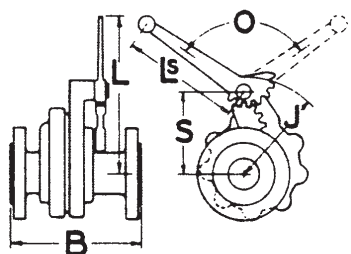
Quick Opening, Fig. 4001S(58), Steel Body, Flanged, Straight Lever

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 ⅞	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 ¾		
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		



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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.