



Non-Return Valves

250 lb SP
450°F

Cast Iron

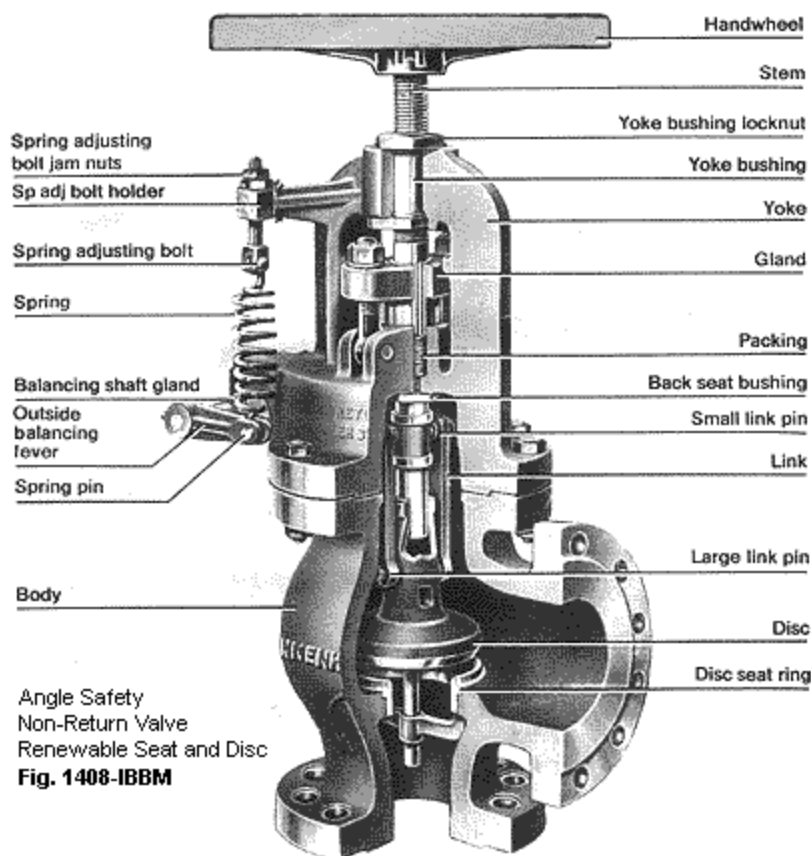


Fig. 1408-IBBM

Dimensions in inches / Weights in pounds

Size	3	4	6	8
B	12½	14	17½	21
D	6¼	7	8¾	10½
E	19	22 ⁹ / ₁₆	27 ³ / ₈	35½
F	18 ⁷ / ₈	22 ¹ / ₁₆	27¼	34 ¹⁵ / ₁₆
H	10	14	18	22
Fig 1408,Wts (Angle)	128	212	388	734



Lunkenheimer non-return valves cut out a boiler automatically when inside pressure drops suddenly or when heat is withdrawn. External spring is reversed and valve acts as a spring-loaded stop-check valve.

Spring may be adjusted from the outside while valve is under pressure to compensate for excessive steam pulsations. Valves may be installed in either vertical or horizontal position.

Bodies & bonnets Cast iron, ASTM A-126

Trim Seat, disc, back seat bushing and yoke bushing is S1 steam bronze, ASTM B-61.

Seating surfaces Re grindable. Seat disc and all other parts renewable.

Installation note Connection should be made directly to the boiler outlet nozzle. Intervening pipe should be kept as short as possible.

Normally shipped with external spring positioned for vertical installation. The external spring should be reversed when the valve is installed with the stem horizontal.

Complete information for installation and operation is attached to valve when shipped.

Principal Parts and Materials

Part	Fig/Sizes	Material	ASTM
Body	All	Cast Iron	A 126
Yoke	All	Cast Iron	A 126
Disc	3-6 8"	Bronze Iron-Bronze Disc ring	B 61 A 126 and B 61
Stem	3 to 6 8"	Stemalloy-UNS Alloy C69700 Stainless Steel	B 71 AISI 410
Seat Ring	All	Bronze	B 61
Spring	All	Carbon Steel	A 129
Gasket	All	Corrugated Copper	-
Balancing Shaft Cap & Hub	All	Teflon-Virgin	D1457
Gasket			
Balancing All Shaft Tec- Ring	All	Carbon/ Graphite Virgin Teflon	-
Stem	All	Non-	-
Packing		Asbestos	

For other Lunkenheimer "LQ" Valves, refer to Lunkenheimer Catalogs for Bronze Valves, Iron Valves, Cast Steel Valves, Specialties.

www.lunkenheimercv.com

LUNKENHEIMER®
THE ONE *Great* NAME IN VALVES

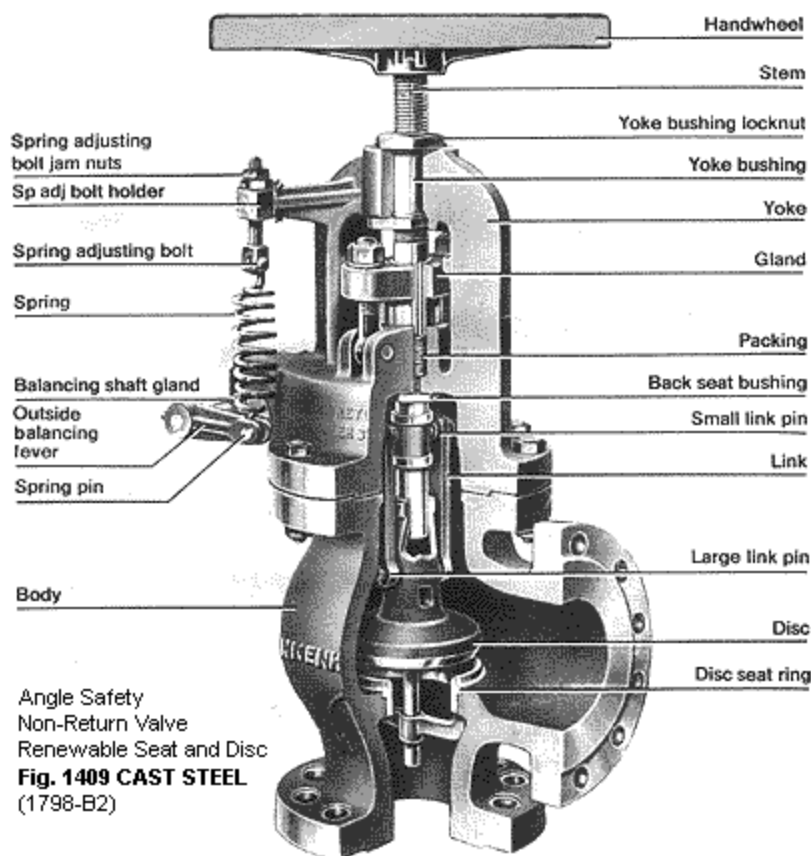
CINCINNATI VALVE COMPANY
LICENSEE OF LUNKENHEIMER VALVES

P.O. BOX 141451 . CINCINNATI, OH 45250-1451 . U.S.A.
PHONE: 513-471-8258 . FAX: 513-471-8327



Non-Return Valves

Class 300 **Cast Steel**



Angle Safety
Non-Return Valve
Renewable Seat and Disc
Fig. 1409 CAST STEEL
(1798-B2)

Dimensions in inches / Weights in pounds

Size	3	4	6	8
B	12½	14	17½	21
D	6¼	7	8¾	10½
E	19	22 ⁵ / ₁₆	27 ³ / ₈	35½
F	18 ⁷ / ₈	22 ¹ / ₁₆	27¼	34 ¹⁵ / ₁₆
H	10	14	18	22
Fig 1409, Wts (Angle)	136	226	413	782



Lunkenheimer non-return valves cut out a boiler automatically when inside pressure drops suddenly or when heat is withdrawn. External spring is reversed and valve acts as a spring-loaded stop-check valve. Spring may be adjusted from the outside while valve is under pressure to compensate for excessive steam pulsations. Valves may be installed in either vertical or horizontal position.

Bodies and bonnets A216 WCB, Cast Steel
Trim A216 WCB, 410 St. St.

Seating surfaces A216 WCB 13CR with facing

Installation note Connection should be made directly to boiler outlet nozzle. Intervening pipe should be kept as short as possible. Normally shipped with external spring positioned for vertical installation. The external spring should be reversed when the valve is installed with the stem horizontal. Complete Information for installation and operation is attached to valve when shipped.

Principal Parts and Materials

Part	Material	ASTM
Body	Cast Steel	A216-WCB
Yoke	Cast Steel	A216-WCB
Disc	Cast Steel W/13 CR Facing	A216-WCB
Stem	St. St.	A 182 F6
Seat Ring	Cast Steel W/13 CR Facing	A216-WCB
Spring	Carbon Steel	A 129
Gasket	Soft Iron	
Balancing Shaft Cap & Hub	Graphite	D1457
Gasket & Packing		
Stem Packing	Braided Graphite	

For other Lunkenheimer "LQ" Valves, refer to Lunkenheimer Catalogs for Bronze Valves, Iron Valves, Cast Steel Valves, Specialties.

www.lunkenheimercvc.com





Blow-Down Valves

With
Indicator



Fig. 22
Globe
200 lb SP
550° F



Fig. 21
Angle
200 lb SP
550° F



Fig. 19
Globe
300 lb SP
550° F



Fig. 18
Angle
300 lb SP
550° F

With 500 Brinell hard seats
Especially suited for Boiler Blow-Down Service
With Stem Position Indicator, heavy duty.

For maximum versatility in all types of general services, all parts of these "Renewo" valves are renewable. Seats and discs are interchangeable, made of tough materials, and can be reground without removing them from the line.

Seats and discs Interchangeable and grindable.

500 Brinell stainless steel plug seats and discs. For throttling, drain, drip, blowdown

and other services normally destructive to seat surfaces.

Bodies Highest quality steam bronze for strength and corrosion resistance.

Bonnets Union design provides strong, safe, reliable service in industrial use.

Stems Exceptionally resistant to wear, corrosion, and embrittlement.

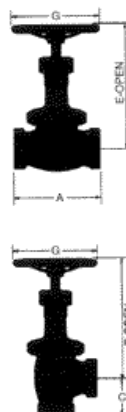
Repacking Valves are repackable under pressure when wide open. Stuffing boxes are deep to insure firm thread engagement when fully packed. Back seats above stem threads make scale formation unlikely.

Hexagon head glands Permit the use of a light wrench to loosen and raise gland.

Non-slip handwheel Insures tight closing.

Dimensions in inches / Weights in pounds

Size	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
A	2 ⁵ / ₃₂	2 ⁹ / ₃₂	2 ⁵ / ₈	3 ¹ / ₃₂	3 ³ / ₄	4 ¹ / ₄	4 ³ / ₄	5 ³ / ₄
C	1	1 ¹ / ₁₆	1 ¹ / ₄	1 ⁵ / ₃₂	1 ¹¹ / ₁₆	1 ¹⁵ / ₁₆	2 ³ / ₁₆	2 ⁵ / ₈
E	3 ¹⁵ / ₁₆	3 ¹⁵ / ₁₆	4 ¹¹ / ₁₆	5 ¹³ / ₁₆	6 ¹ / ₂	7 ³ / ₁₆	7 ¹⁵ / ₁₆	8 ⁷ / ₈
F	3 ⁷ / ₈	3 ¹⁵ / ₁₆	4 ¹¹ / ₁₆	5 ¹³ / ₁₆	6 ¹ / ₂	7 ³ / ₁₆	7 ¹⁵ / ₁₆	8 ¹³ / ₁₆
Fig 22 Wts	.9	1.0	1.5	2.6	3.6	5.3	7.2	12.0
Fig 21 Wts	.9	.9	1.5	2.3	3.5	5.0	6.8	11.0
A	2 ⁵ / ₁₆	2 ¹ / ₂	2 ⁷ / ₈	3 ¹⁷ / ₃₂	4 ¹ / ₈	4 ²³ / ₃₂	5 ¹ / ₄	6 ³ / ₈
E	4 ⁵ / ₈	4 ⁵ / ₈	5 ³ / ₁₆	6 ¹ / ₈	6 ⁷ / ₈	7 ¹³ / ₁₆	8 ³ / ₈	9 ¹ / ₂
Fig 19 Wts	1.2	1.4	2.0	3.4	5.2	7.3	10.0	17.0
C	1 ³ / ₃₂	1 ⁵ / ₃₂	1 ³ / ₈	1 ⁵ / ₈	1 ²⁹ / ₃₂	2 ⁷ / ₃₂	2 ⁷ / ₁₆	3
F	4 ⁵ / ₈	4 ⁵ / ₈	5 ³ / ₁₆	6 ¹ / ₈	6 ⁷ / ₈	7 ¹³ / ₁₆	8 ³ / ₈	9 ¹ / ₂
Fig 18 Wts	1.2	1.3	1.9	3.2	4.8	7.2	9.3	16.0
G	2 ¹ / ₂	2 ¹ / ₂	3	3 ¹ / ₂	4 ¹ / ₈	4 ⁵ / ₈	5 ¹ / ₈	5 ¹ / ₂



Principal Parts and Materials

Part	Fig	Material	ASTM
Body & Bonnet		S-1 Steam Bronze	B61
Disc		500 Brinell Stainless Steel Type 420F	A276
Stem		Stemalloy, Rod (C69700)	B371 B 61
Seat Ring		500 Brinell Stainless Steel Type 420 F	A276
Packing		JC168 Kelvar	-

These valves comply with ANSI B16.24 and MSS-SP-80.

For other Lunkenheimer "LQ" Valves, refer to Lunkenheimer Catalogs for Bronze Valves, Iron Valves, Cast Steel Valves, Specialties.

www.lunkenheimercvc.com





Y Blow-Off Valves



Fig. 180 Bronze with Metal Seat
300 lb SP



Fig. 180-T with Bronze Teflon Seat
300 lb SP

Lunkenheimer Fig. 180 "Y" Blow-off valves conform to the ASME Boiler Code and are suitable for boiler service up to 80% of valve working steam pressure. Also provide approximate flow and drainage of a gate valve and may be used as such on other services. Also for throttling and fine regulation.

Bodies and bonnets ASTM B61 type-S-1 steam bronze. Seat opening permits almost unrestricted flow. Cylindrical guides insure proper disc seating.

Union Bonnet: Assures strong, pressure-tight connections, facilitates cleaning and inspection.

Discs and seat rings: Regrindable, renewable. NT4 nickel alloy.

Back seats: Repackable when disc is wide open under pressure.

Lunkenheimer Fig. 180-T "Y" Blow-off valves are designed for up to 300 SP service. They are similar to the Fig. 180, except that the seat is internal bronze, the disc is teflon.

Bodies and bonnets ASTM B61 type-S-1 steam bronze. Seat opening permits almost unrestricted flow. Cylindrical guides insure proper disc seating.

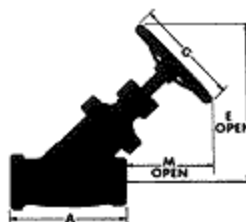
Union Bonnet: Assures strong, pressure-tight connections, facilitates cleaning and inspection.

Disc: Teflon

Back seats: Repackable when disc is wide open under pressure.

Dimensions in inches Weights in Pounds

Size	1	1¼	1½	2
A	4½	5 ³ / ₁₆	5 ¹³ / ₁₆	7
E	6 ¹¹ / ₁₆	7 ⁹ / ₁₆	8 ³ / ₈	9¾
G	4 ¹ / ₈	4 ⁵ / ₈	5 ¹ / ₈	5½
M	3 ⁷ / ₈	4¼	4 ¹¹ / ₁₆	5¼
H	10	14	18	22
Fig 180, Wt	4.0	6.0	7.9	13.5
Fig 180-T, Wt	3.9	5.8	7.5	13.0



Principal Parts and Materials

Part	Fig	Material	ASTM
Body & Bonnet		S-1 Steam Bronze	B 61
Disc	180 180-T	NT4 Nickel Alloy Teflon	
Stem		Stemalloy, Rod (C69700)	B371
Seat Ring	180 180-T	NT4 Nickel Alloy Integral/Bronze	
Packing		JC 168 Kevlar	—

These valves comply with ANSI B16.24 and MSS-SP-80

For other Lunkenheimer "LQ" Valves, refer to Lunkenheimer Catalogs for Bronze Valves, Iron Valves, Cast Steel Valves, Specialties.

www.lunkenheimercvc.com

LUNKENHEIMER®
THE ONE *great* NAME IN VALVES

CINCINNATI VALVE COMPANY
LICENSEE OF LUNKENHEIMER VALVES

P.O. BOX 141451 . CINCINNATI, OH 45250-1451 . U.S.A.
PHONE: 513-471-8258 . FAX: 513-471-8327



SERVING THE INDUSTRY FOR OVER 130 YEARS

FIG. 102 QUICK OPENING VALVE CLASS 300

The Fig. 102 Quick Opening Gate Valve is designed for quick opening/closing operation in handling steam, water, oil, and other fluids. It is especially suited for use as a Quick Opening Valve on Boiler Applications.

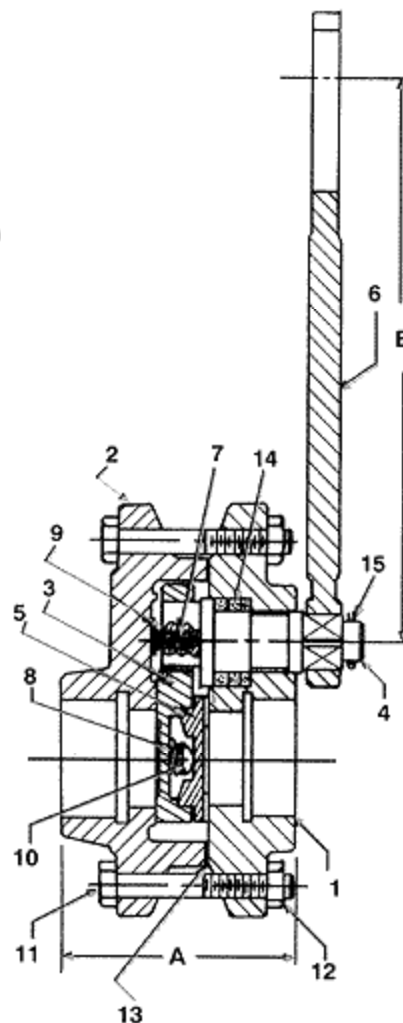
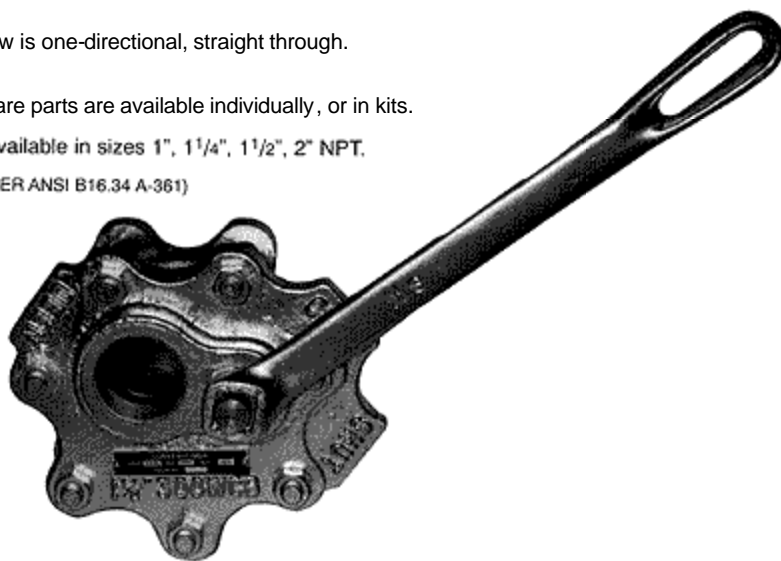
This Valve has a cast carbon steel Body and is fitted with a 13-chrome seated Sliding Disc, which is self-cleaning and self-lapping, for long lasting tight shut-off.

Flow is one-directional, straight through.

Spare parts are available individually, or in kits.

Available in sizes 1", 1 1/4", 1 1/2", 2" NPT.

(PER ANSI B16.34 A-361)



No.	Part Name	Qty.	Material
1	Body	1	A216-WCB
2	Bonnet	1	A216-WCB
3	Lever Arm	1	A216-WCB
4	Stem	1	A217-410
5	Disc	1	A216-WCB With 13CR Overlay
6	Lever	1	A216-WCB
7	Spring	1	A276-302
8	Spring	1	A276-302
9	Spring Button	1	A217-410
10	Spring Button	1	A217-410
11	Bolt	8	A193-B7
12	Nut	8	A194-2H
13	Gasket	1	Corrugated 304
14	Packing	2	Graphite
15	Cotter Pin	1	Carbon Steel

Size	A	B	< O. to C.
1	3 1/2	8 3/4	60°
1 1/4	3 3/4	8 3/4	60°
1 1/2	4 1/2	11	60°
2	4 3/4	17 1/2	60°

LUNKENHEIMER®
THE ONE *Great* NAME IN VALVES