

*Quality People. Building Solutions.*

Comfort Systems USA (Arkansas), Inc.  
P.O. Box 16620  
Little Rock, AR 72231  
Phone 501-834-3320  
Fax 501-834-5416

**Date:** 11/9/2023

**Return Request:** 11/19/2023

**Project:** UCA Snow – Fine Arts Center

**Supplier:** Comfort Systems USA (Arkansas), Inc.

**Manufacturer:** Various

**Submittal:** Valves

**Submittal Number:** 23 05 23-01

**Drawing # and Installation:** Mechanical Drawings

**ARCHITECT**

H+N Architects  
1009 Main Street  
Conway, AR 72032  
501-327-7525

**ENGINEER**

Pettit & Pettit  
201 E. Markham St. #400  
Little Rock, AR 72201  
501-374-3731

**GENERAL CONTRACTOR**

Wagner General Contractors  
600 W. Race Ave.  
Searcy, AR 72143  
501-203-0704

**MECHANICAL SUBCONTRACTOR**

Comfort Systems USA (Arkansas), Inc.  
9924 Landers Rd.  
N. Little Rock, AR 72117  
501-834-3320

Notes:

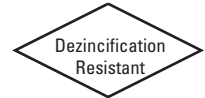
**CSUSA PROJECT NO.**

**23-2020**

[chowell@comfortar.com](mailto:chowell@comfortar.com)

# Bronze Ball Valves

Two-Piece Body • Full Port • Bronze Trim • Blowout-Proof Stem



**600 PSI/41.4 bar non-shock cold working pressure**  
**150 PSI/10.3 bar saturated steam\***

CONFORMS TO MSS SP-110

## MATERIAL LIST

PART	SPECIFICATION
1. Handle Nut	Zinc Plated Steel
2. Handle	Zinc Plated Steel Clear Chromate Plastisol Coated
3. Threaded Pack Gland	Brass ASTM B 16 Alloy C36000
4. Packing	PTFE
5. Stem	Silicon Bronze ASTM B 371 Alloy C69300 or ASTM B 99 Alloy C65100
6. Thrust Washer	Reinforced PTFE
7. Ball	Brass ASTM B 124 Alloy C37700 or ASTM B16 Alloy C36000 EACH with Hard Chrome Plate
8. Seat Ring (2)	Reinforced PTFE
9. Body	Cast Red Bronze ASTM B 584 Alloy C84400
10. Body End Piece	Cast Red Bronze ASTM B 584 Alloy C84400

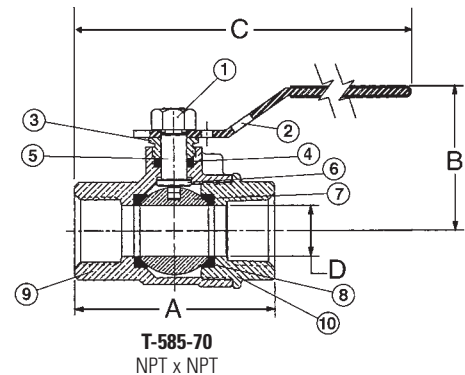
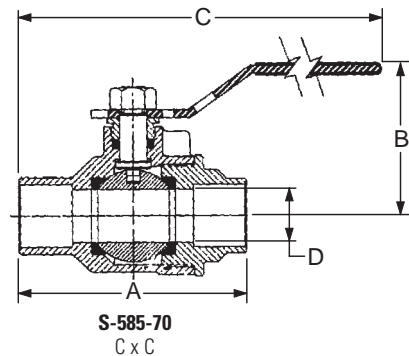
¼" size only has a 304 stainless steel grounding washer.



**T-585-70**  
Threaded



**S-585-70**  
Solder



## DIMENSIONS—WEIGHTS—QUANTITIES

### Dimensions

Size	T-585-70		S-585-70		T-585-70		S-585-70		D	T-585-70		S-585-70		Master Ctn. Qty.				
	A	A	B	C	C	C	C	Lbs.		Kg.	Lbs.	Kg.						
¼	8	2.00	51	1.75	44	1.75	44	5.00	127	4.75	121	.38	10	.45	.21	.42	.19	100
⅜	10	2.00	51	1.84	47	1.75	44	5.00	127	4.81	122	.38	10	.45	.21	.42	.19	100
½	15	2.44	62	2.56	65	1.88	48	5.19	132	5.25	133	.50	13	.64	.29	.60	.27	100
¾	20	2.94	75	3.25	82	2.25	57	6.25	159	6.25	159	.75	19	1.33	.60	1.27	.58	50
1	25	3.34	85	3.75	95	2.38	60	6.44	164	6.63	168	1.00	25	1.79	.81	1.72	.78	40
1¼	32	4.19	106	5.06	128	3.00	76	6.75	171	7.19	183	1.25	32	3.12	1.41	3.18	1.44	20
1½	40	4.72	120	5.99	151	3.16	80	9.06	230	9.69	246	1.50	38	4.78	2.17	5.12	2.32	10
2	50	5.16	131	6.72	170	3.50	89	9.25	235	10.06	256	2.00	51	6.68	3.03	7.10	3.22	8

Note: solder end is designed to be soft-soldered into lines using solders with the melting point not exceeding 500°F. Higher temperature solders will damage the seat material. See installation sheet packaged with valves.

♦ For detailed operating pressure, refer to pressure temperature chart on page 41.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

\*Weighted average lead content ≤ 0.25%

**LEAD FREE\*  
OPTION  
AVAILABLE**

**OXYGEN  
SERVICE  
OPTION  
AVAILABLE**

Visit our website for the most current information.

# 200 PSI Butterfly Valves

Ductile Iron Body • Extended Neck • Geometric Drive • Molded-In Seat Liner  
• Lug and Wafer Style

Sizes 2" through 12"

Install between Std. ASME Class 125/150 flanges.  
Lug Style 200 PSI bi-directional dead end service rating without a downstream flange required.

THIRD PARTY CERTIFIED BY QAI TO MEET MSS SP-67 STANDARD •  
U.S. COAST GUARD "CATEGORY A" • CERTIFIED LEAD-FREE\* BY  
TRUESDAIL LABS TO NSF/ANSI 61-8 COMMERCIAL HOT 180°F  
AND NSF/ANSI 61 AND 372



**WD-2000**  
Wafer Style  
EPDM Liner  
and Aluminum  
Bronze Disc



**LD-2000**  
Lug Style  
EPDM Liner  
and Aluminum  
Bronze Disc

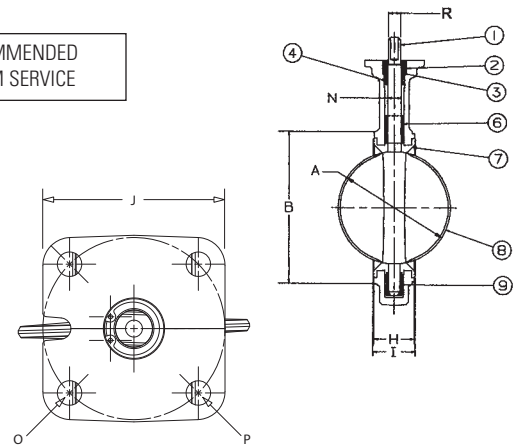
## MATERIAL LIST

PART	SPECIFICATION
1. Stem	Stainless Steel ASTM A582 Type 416
2. Collar Bushing	Brass ASTM B16
3. Stem Seal	EPDM Rubber
4. Body Seal	EPDM Rubber
5. Nameplate	Aluminum
6. Upper Bushing	Copper CDA 122
7. Liner	EPDM Rubber
8. Disc	Alum. Brz. ASTM B148 Alloy 955
9. Lower Bushing	Copper CDA 122
10. Body Wafer	Ductile Iron ASTM A536
11. Body Lug	Ductile Iron ASTM A536

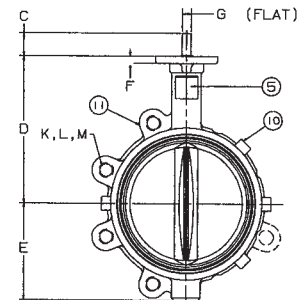
NOT RECOMMENDED  
FOR STEAM SERVICE

## DIMENSIONS — WEIGHTS

Size	Flat Metal Rubber Square Dia.										
In. mm. A B C D E F G H I J N											
2 50	2.53	4.00	1.25	5.38	2.88	.38	.312	1.688	1.812	3.25	.500
2½ 65	2.90	4.69	1.25	5.88	3.27	.38	.370	1.812	1.938	3.25	.562
3 80	3.15	5.12	1.25	6.12	3.40	.38	.370	1.812	1.938	3.25	.562
4 100	4.09	6.12	1.25	6.88	4.00	.38	.403	2.062	2.188	3.25	.625
5 125	5.13	7.25	1.25	7.38	4.75	.38	.496	2.188	2.312	3.25	.750
6 150	6.13	8.25	1.25	8.00	5.29	.38	.496	2.188	2.312	3.25	.750
8 200	8.13	10.41	1.25	9.25	6.50	.50	.560	2.375	2.500	3.25	.875
10 250	10.13	12.52	1.25	10.50	8.00	.50	.686	2.688	2.812	4.75	1.125
12 300	12.13	15.00	1.25	12.00	9.25	.50	.748	3.000	3.125	4.75	1.250



Size	Capscrew/Stud Data						Wafer Length	Lug Length	M	Lug Weight		Wafer Weight	
	In. mm.	B.C.	P Dia.	R Dia.	K No.	L Dia.				B.C.	Lbs.	Kg.	Lbs.
2 50	3.25	.437	.437	4	5/8-11unc	Refer to butterfly valve technical information for bolt lengths	4 ¾	7	3.2	5.5	2.5		
2½ 65	3.25	.437	.500	4	5/8-11unc		5 ½	9	4.1	7.5	3.4		
3 80	3.25	.437	.500	4	5/8-11unc		6	9.5	4.3	8	3.6		
4 100	3.25	.437	.562	8	5/8-11unc		7 ½	15	6.8	11	5.0		
5 125	3.25	.437	.656	8	¾-10unc		8 ½	21	9.5	15	6.8		
6 150	3.25	.437	.656	8	¾-10unc		9 ½	24	10.9	18	8.2		
8 200	3.25	.437	.781	8	¾-10unc		11 ¾	34	15.4	28	12.7		
10 250	5.00	.562	1.000	12	7/8-9unc		14 ¼	62	28.1	45.5	20.7		
12 300	5.00	.562	1.062	12	7/8-9unc		17	90	40.9	70	31.8		



For actuated service where a lower torque is required use NIBCO Fig. No. WDLXXX-0 or LDLXXX-0 series, sizes 2" thru 12" only. Maximum pressure rating of 100 PSI for wet application and 50 PSI for dry application.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

\*Weighted average lead content ≤ 0.25%

# Class 150 Bronze Gate Valves

Union Bonnet • Rising Stem • Solid Wedge

**150 PSI/10.3 bar saturated steam to 366° F/185° C**  
**300 PSI/20.7 bar non-shock cold working pressure**

CONFORMS TO MSS SP-80

## MATERIAL LIST

PART	SPECIFICATION
1. Handwheel Nut	300 Series Stainless Steel
2. Identification Plate	Aluminum
3. Handwheel	Malleable Iron ASTM A 47
4. Stem	Silicon Bronze ASTM B 371 Alloy C69400/C69430 or ASTM B 99 Alloy C65100
5. Packing Nut	Bronze ASTM B 62 or ASTM B124 Alloy C84400 or Brass ASTM B16
6. Packing Gland	Bronze ASTM B 62 or ASTM B584 Brass ASTM B16 C36000
7. Packing	Aramid Fibers with Graphite
8. Bonnet	Bronze ASTM B 62
9. Union Nut	Bronze ASTM B 62
10. Body	Bronze ASTM B 62
11. Wedge	Bronze ASTM B 62

## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions						T-134		S-134		Master Ctn. Qty.	
	A		B		C		Lbs.	Kg.	Lbs.	Kg.		
In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	
¼	8	1.96	50	4.81	122	x	x	1.08	0.49	x	x	50
⅜	10	1.96	50	4.81	122	0.79	20	1.12	0.51	1.02	0.46	50
½	15	2.31	59	4.81	122	0.76	19	1.12	0.51	1.06	0.48	40
¾	20	2.51	64	5.81	148	0.98	25	1.70	0.77	1.54	0.70	30
1	25	2.92	74	7.09	180	1.13	29	2.38	1.08	2.26	1.03	20
1¼	32	3.20	81	8.13	206	1.18	30	3.73	1.69	3.56	1.61	10
1½	40	3.33	85	9.81	249	1.29	33	4.67	2.12	4.46	2.02	10
2	50	3.44	87	11.56	294	1.31	33	7.77	3.53	7.14	3.24	6
2½	65	4.35	110	14.31	364	1.81	46	12.70	5.77	12.30	5.58	4
3	80	5.31	135	16.50	419	1.97	50	18.74	8.51	17.13	7.78	2

x Not available this size.

**FREEZING WEATHER PRECAUTION:** Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

◆ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 116.

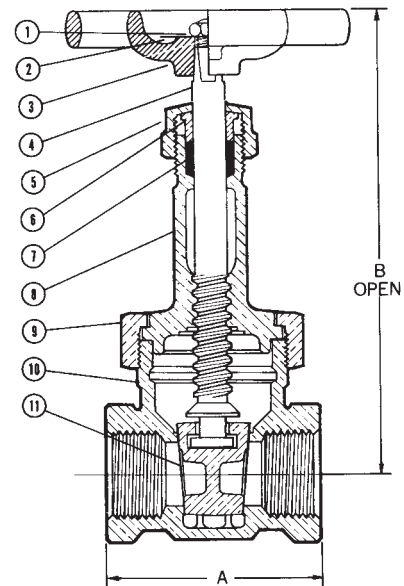
**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



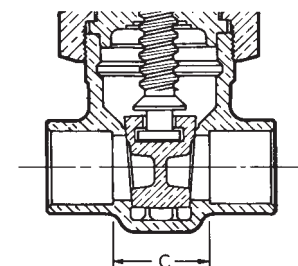
**T-134**  
Threaded



**S-134**  
Solder



**T-134**  
NPT x NPT



**S-134**  
C x C

Visit our website for the most current information.

# Class 125 Iron Body Gate Valves

Bolted Bonnet • Outside Screw and Yoke • Solid Wedge • Bronze Mounted • Stem Pack Ring Material Options

200 PSI/13.8 bar non-shock cold working pressure to -20°F to 150°F/-29°C to 66°Ct

Maximum working temperature 450°F/232°C at 125 PSI/8.6 bar

125 PSI/8.6 bar saturated steam to 353°F/178°C

CONFORMS TO MSS SP-70

## MATERIAL LIST

PART	SPECIFICATION
1. Stem	Copper Alloy, ASTM B16 C36000
2. Nut, Handwheel	Cast Copper Alloy, ASTM B584 C84400
3. Nameplate, I.D.	Aluminum
4. Handwheel, Blue	Cast Iron, ASTM A126-B
5. Bushing, Yoke	Cast Copper Alloy, ASTM B584 C84400
6. Screw, Hex - Bonnet Cap	Steel, ASTM A307 / SAE J429
7. Cap, Bonnet	Ductile Iron, ASTM A536
8. Nut, Square - Bonnet Cap	Steel, ASTM A563
9. Bonnet <sup>1</sup>	Cast Iron, ASTM A126-B
10. Nut, Heavy Hex - GLD Follow	Steel, ASTM A563
11. Gland Follower	Ductile Iron, ASTM A536
12. Pack Gland	Powdered Metal, ASTM B783
13. Pack Ring	F617-O: Aramid Fibers/Graphite F617-OTP: Synthetic Fibers/PTFE
14. Bolt, SQ Head - GLD Follow	Steel, ASTM A307 / SAE J429
15. Screw, Hex - Body	Steel, ASTM A307 / SAE J429
16. Gasket, Body	Graphite/SST
17. Nut, Hex - Body	Steel, ASTM A563
18. Collar, Stem	Copper Alloy, ASTM B16 C36000
19. Pin, Wedge	Copper Alloy, ASTM B140 C31600
20. Ring, Seat - Wedge	Cast Copper Alloy, ASTM B584 C84400
21. Wedge <sup>2</sup>	Cast Iron, ASTM A126-B
22. Ring, Seat - Body	Cast Copper Alloy, ASTM B584 C84400
23. Body	Cast Iron, ASTM A126-B

<sup>1</sup> Sizes thru 8", Yoke and Bonnet are intergral. 10" and 12" sizes separate. Yoke is bolted to Bonnet.

<sup>2</sup> Sizes 2" thru 6" have Cast Copper Alloy Wedges. Sizes 8" thru 12" made with Cast Iron Wedge with Cast Copper Alloy Face Rings.

NOTE: 1. F-617-O available 2"-24". F-617-OTP available 2"-12".

2. NIBCO may substitute Ductile Iron ASTM A395 (60-40-18) for ASTM A126 Class B Cast Iron for the Body, Bonnet, Wedge, or Disc. NIBCO may substitute Ductile Iron ASTM A395 (60-40-18) or ASTM A536 (65-45-12) for all other ASTM A126 Class B Cast Iron components.

## DIMENSIONS—WEIGHTS—QUANTITIES

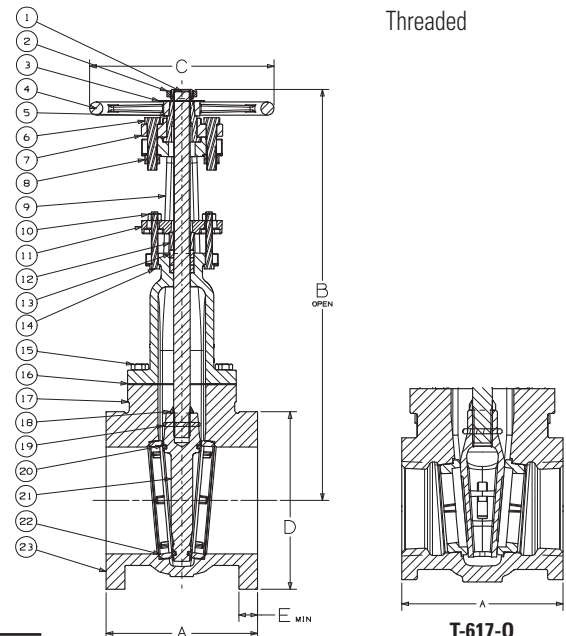
		Dimensions															
		F-617-O/OTP		T-617-O		B		C		D		E		F-617-O/OTP		T-617-O	
Size		A	A	B	C	D	E	F-617-O/OTP	T-617-O	Lbs.	Kg.	Lbs.	Kg.				
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.				
2	50	7.00	178	5.63	143	16.26	413	8.00	203	6.00	152	0.62	16	41	19	30	14
2½	65	7.50	191	5.88	149	17.26	438	8.00	203	7.00	178	0.69	18	55	25	39	18
3	80	8.00	203	6.13	156	19.44	494	8.00	203	7.50	114	0.75	19	67	30	47	21
4	100	9.00	229	6.50	165	23.54	598	10.25	260	9.00	229	0.94	24	107	49	77	35
5	125	10.00	254	—	—	27.01	686	10.25	260	10.00	254	0.94	24	145	66	—	—
6	150	10.50	267	—	—	30.73	781	12.00	305	11.00	279	1.00	25	178	81	—	—
8	200	11.50	292	—	—	40.29	1023	14.00	356	13.50	343	1.12	28	309	140	—	—
10	250	13.00	330	—	—	48.45	1231	16.25	413	16.00	406	1.19	30	481	219	—	—
12	300	14.00	356	—	—	56.26	1429	18.00	457	19.00	483	1.25	32	706	321	—	—



**F-617-O**  
**F-617-OTP**  
Flanged



**T-617-O**  
Threaded



**F-617-O**  
**F-617-OTP**  
Flg x Flg

**T-617-O**  
NPT x NPT

**FREEZING WEATHER PRECAUTION:** Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

◆ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 116.

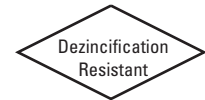


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Visit our website for the most current information.

# Class 125 Bronze Check Valves

Horizontal Swing • Grinding Type • Y-Pattern • Renewable Seat and Disc



**125 PSI/8.6 Bar Saturated Steam to 353°F/178°C**  
**200 PSI/13.8 Bar Non-Shock Cold Working Pressure**

CONFORMS TO MSS SP-80

## MATERIAL LIST

PART	SPECIFICATION
1. Bonnet	Bronze ASTM B 62
2. Body	Bronze ASTM B 62
3. Hinge Pin	316 SS or 304 SS
4. Disc Hanger	Bronze ASTM B 62 or MPIF SS-316NI-25
5. Hanger Nut	Bronze ASTM B 16
6. Disc Holder	Bronze ASTM B 62
7. Seat Disc	Petroleum or Water (Buna-N) (W) Steam (PTFE) (Y) Bronze ASTM (B) FKM (V) B 62 C83600
8. Seat Disc Nut	Bronze ASTM B 16 or B 62
9. Hinge Pin Plug	Bronze ASTM B140 Alloy C31400 (not shown)
10. Seat Disc Washer*	ASTM B 98 Alloy C65500 or ASTM B 103

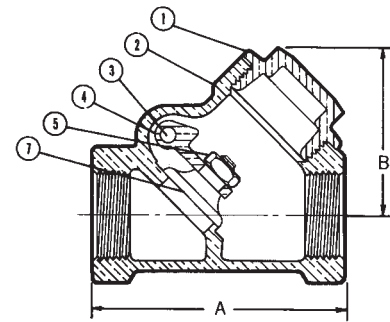
\*Sizes ¾", 1", 1¼", 1½" and 2" only.



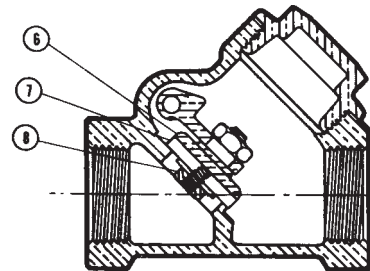
**T-413**  
Threaded



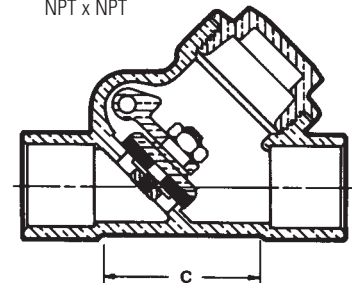
**S-413**  
Solder



**T-413-B**  
NPT x NPT



**T-413-Y**  
NPT x NPT



**S-413-W**  
C x C

## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions						T-413		S-413		Master Ctn. Qty.	
	A		B		C		Lbs.	Kg.	Lbs.	Kg.		
In.	mm.	In.	mm.	In.	mm.	In.	mm.					
¼	8	2.13	54	1.63	41	1.38	35	0.50	0.23	0.51	0.23	50
⅜	10	2.13	54	1.63	41	1.31	33	0.47	0.22	0.48	0.22	50
½	15	2.44	62	1.69	43	1.50	38	0.55	0.25	0.55	0.25	50
¾	20	2.94	75	1.88	48	1.88	48	0.90	0.41	0.88	0.40	10
1	25	3.56	90	2.31	59	2.25	57	1.46	0.66	1.48	0.67	5
1¼	32	4.19	106	2.69	68	2.75	70	2.17	0.99	2.22	1.01	20
1½	40	4.50	114	2.94	75	3.11	79	2.95	1.34	3.00	1.36	10
2	50	5.25	133	3.94	100	3.75	95	4.79	2.17	4.87	2.21	10
2½*	65	8.00	203	5.06	129	5.06	129	11.48	5.21	10.48	4.76	5
3*	80	9.25	235	6.25	159	6.25	159	17.53	7.96	15.29	6.94	4

Ordering: T-413 and S-413 normally furnished with Bronze Disc (T-413-B) or (S-413-B).  
Both available with PTFE Steam Disc (T-413-Y), (S-413-Y), or CWP Disc (T-413-W), (S-413-W) or 300° F 67 PSI steam FKM Disc (T-413-V).

\*Class 150 (433) furnished for these sizes.

Install 5 pipe diameters minimum downstream from pump discharge or changes in direction to avoid flow turbulence. Flow straighteners may be required in extreme cases.

Note: On pump discharge, the preferred check valves are: inline, spring assisted, center-guided, lift checks.

NIBCO® Check Valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position. They will operate satisfactorily in a declining plane (no more than 15°).

Warning – Do Not Use For Reciprocating Air Compressor Service.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 116.

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Visit our website for the most current information.

# Lead-Free\* Class 125/250 Iron Body Silent Check Valves

Flanged • Globe Style • Renewable Seat and Disc • Spring Actuated (1 / 2 PSI cracking pressure)

<sup>1</sup>Class 125, 200 PSI/13.8 bar non-shock cold working pressure

<sup>2</sup>Class 250, 400 PSI/27.6 bar non-shock cold working pressure

Maximum temperature to 200°F/93°C

CERTIFIED LEAD-FREE\* BY WQA TO NSF/ANSI 372 •  
NSF/ANSI 61 CERTIFIED BY UL •

CONFORMS TO MSS SP-125 • CONFORMS TO MIL-V-18436F •  
FM APPROVED — 2½" thru 10" ONLY (F-910-B-LF)



**C USA**  
**COMPONENT LEAD-FREE**



**WATER QUALITY NSF 61 CERTIFIED**



**F-910-LF, 125 lb. Class**  
**F-960-LF, 250 lb. Class**  
Flanged

MATERIAL LIST	
PART	SPECIFICATION
1. Body	Cast Iron ASTM 126 Class B
2. Seat (B)	Bronze ASTM B584 Alloy C87600
2a. Seat (W)	with Buna-N O-ring
3. Disc	2½" - 10" - Bronze ASTM B584 Alloy C87600 12" - 36" - Class 250 Alloy ASTM B148 C95500
4. Spring	Stainless Steel ASTM A313 UNS S31600
5. Bushing	Aluminum Bronze B505 C95400
6. Set Screws†	Stainless Steel Type 316 ASTM F879

## DIMENSIONS—WEIGHTS

Size	Dimensions		F-910-LF		F-960-LF		
	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	
2½	65	5.50	140	24	11	30	14
3	80	6.00	152	29	13	36	16
4	100	7.25	184	42	19	59	27
5	125	8.50	216	52	24	78	35
6	150	9.75	248	73	33	103	47
8	200	12.50	318	126	57	179	81
10	250	15.50	394	205	93	253	115
12	300	14.25	362	306	139	401	182
14	350	15.75	400	350	172	511	232
16	400	17.63	448	501	227	697	316
18	450	18.75	476	724	328	959	435
20	500	20.63	524	890	404	1180	535
24	600	24.00	610	1220	553	1680	762
30	750	29.25	743	2000	907	2375	1077
36	900	45.00	1143	4421	2005	5511	2500

<sup>1</sup>14" - 36" sizes - Class 125, 150 psi/10.3 bar CWP

<sup>2</sup>14" - 36" sizes - Class 250, 300 psi/20.7 bar CWP

† 2½" - 12" : No Set Screws

NOTE: F-910-LF made to 125 lb. Flange dimensions.  
F-960-LF made to 250 lb. Flange dimensions.

A Wafer Style Butterfly Valve can be mated on the down stream side of the F-910-LF 2½"-10" sizes without use of spacers or adapters. 316 Stainless Steel Trim available – Consult Factory.

USE THIS VALVE ONLY WITH FLAT FACE FLANGE AND FULL FACE GASKET.

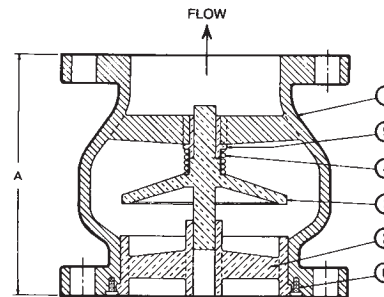
WARNING: 1. Seat end of valves 14" and larger must be mated to a standard flat faced metal flange. Rubber flanges not acceptable.  
2. These are not to be used as steam valves.  
3. Valves are not to be used near a reciprocating air compressor.  
4. Do not install in vertical line with downward flow.

Note: On pump discharge, the preferred check valves are:  
- inline, spring assisted, center-guided, lift checks  
- spring assisted twin (double) disc  
- swing design with lever and weight or lever and spring

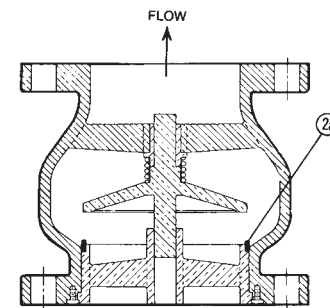
Install 5 pipe diameters minimum downstream from pump discharge or changes in direction to avoid flow turbulence. Flow straighteners may be required in extreme cases.

\*Weighted average lead content ≤ 0.25%

Visit our website for the most current information.



**F-910-B-LF or F-960-B-LF**  
Flg x Flg Flg x Flg



**F-910-W-LF or F-960-W-LF**  
Flg x Flg Flg x Flg



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# Class 125 Iron Body Check Valves

Bolted Bonnet • Horizontal Swing • Renewable Seat and Disc\*

200 PSI/13.8 bar non-shock cold working pressure to -20°F to 150°F/-29°C to 66°C\*

Maximum working temperature 450°F/232°C at 125 PSI/8.6 bar

125 PSI/8.6 bar saturated steam to 353°F/178°C

CONFORMS TO MSS SP-71 TYPE 1

## MATERIAL LIST

PART	SPECIFICATION
1. Body Bolt	Steel ASTM A307
2. Identification Plate	Aluminum
3. Bonnet	Cast Iron ASTM A126 Class B
4. Body Gasket	Synthetic Fibers
5. Body Nut	Steel ASTM A563
6. Side Plug	Brass ASTM B16 Alloy C36000
7. Hanger Pin	Brass ASTM B16 Alloy C36000
8. Hanger	Ductile Iron ASTM A536
9. <sup>1</sup> Disc	Brass ASTM B584 Alloy C84400 or ASTM A536 Ductile Iron with Brass Face Ring
10. Seat Ring	Brass ASTM B584 Alloy C84400
11. Disc Nut	Brass ASTM B16 Alloy C36000
12. Body	Cast Iron ASTM A126 Class B
13. <sup>1</sup> Disc Bolt	Brass ASTM B16 Alloy C36000
14. Disc Plate**	Cast Iron ASTM A126 Class B
15. Disc Cage**	Cast Iron ASTM A126 Class B

<sup>1</sup>2" thru 4" have Bronze ASTM B584 Disc.

<sup>5</sup>" thru 12" have Iron Disc with Bronze Disc Face Rings and Disc Bolt.

\*\*These items are not in the -B, only the -W and -Y.

## DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions																	
Size		F-918-B		T-918-B		A		B		D		E		F-918-B	T-918-B		
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.
2	50	8.00	203	6.50	165	3.94	100	6.00	152	.63	16	24	11	15	7		
2½	65	8.50	216	7.50	191	4.50	114	7.00	178	.69	17	35	16	26	12		
3	80	9.50	241	8.00	203	5.13	130	7.50	191	.75	19	47	21	31	14		
4	100	11.50	292	9.38	238	6.13	156	9.00	229	.94	24	80	36	54	24		
5	125	13.00	330	x	x	6.81	173	10.00	254	.94	24	100	45	80	36		
6	150	14.00	356	x	x	8.00	203	11.00	279	1.00	25	146	66	121	54		
8	200	19.50	495	x	x	9.44	240	13.50	343	1.13	29	274	124	x	x		
10	250	24.50	622	x	x	12.06	306	16.00	406	1.19	30	426	193	x	x		
12	300	27.50	699	x	x	16.13	410	19.00	483	1.25	32	675	306	x	x		

Note: On pump discharge, the preferred check valves are:

- inline, spring assisted, center-guided, lift checks
- spring assisted twin (double) disc
- swing design with lever and weight or lever and spring

\*Proper machining facilities required.

x Not available this size.

2½" thru 12" are available with lever and weight or lever and spring.

Install 5 pipe diameters minimum downstream from pump discharge or changes in direction to avoid flow turbulence. Flow straighteners may be required in extreme cases.

NIBCO Iron Body Check Valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position.

Warning – Do Not Use For Reciprocating Air Compressor Service.

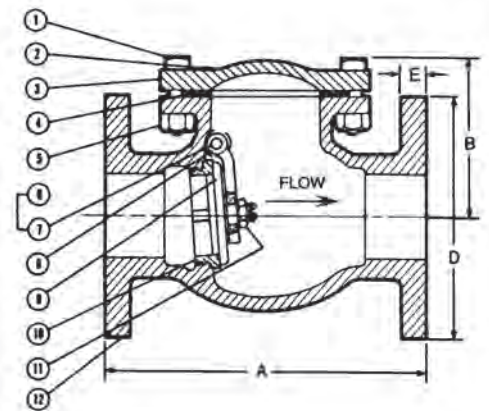
◆ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 114.



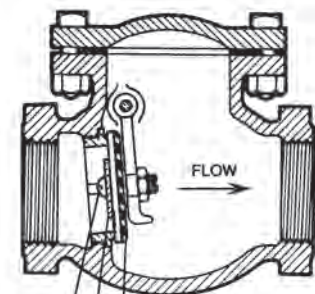
**F-918-B**  
Flanged



**T-918-B**  
Threaded



**F-918-B**  
Flg x Flg



**T-918**  
NPT x NPT  
Buna-N Disc Shown



**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.