

Iron Check Valves & Y-Strainers

Illustrated Index

Iron Body Swing Check Valve Bronze Mounted or All Iron 125 lb. SWP 200 lb. CWP  F-918-B/F-918-N/T-918-B Bronze or Cast Iron Disc Sizes 2" thru 12" Flanged or Threaded Page 63, 64	Iron Body Swing Check Valve Bronze Mounted 250 lb. SWP 500 lb. CWP  F-968-B Bronze Disc Sizes 2½" thru 6" Flanged Page 65	Lead Free Iron Body Silent Check Valve In-Line Lift • Wafer Style • Spring Actuated 125 lb. Class/200 lb. CWP 250 lb. Class/400 lb. CWP  W-910-LF, 125 lb. Class W-960-LF, 250 lb. Class Bronze or Buna-N Seat Sizes 2" thru 10" Wafer Style Page 66	Lead Free Iron Body Silent Check Valve In-Line Lift • Globe Style • Spring Actuated 125 lb. Class/200 lb. CWP 250 lb. Class/400 lb. CWP  F-910-LF, 125 lb. Class F-960-LF, 250 lb. Class Bronze or Buna-N Seat Sizes 2 ½" thru 36" Flanged Page 67
Iron Body Twin Disk Check Valve 125 lb. Class/250 lb. CWP  W-920-W / W-920-W-LF Buna-N Seat Sizes 2" thru 36" Wafer Style Page 68, 69, 70	Lead Free Iron Body Grooved Silent Check Valve Bronze Disc 250 lb. CWP  G-920-W-LF Buna-N Seat Sizes 2" thru 12" Grooved Page 71	Iron Y-Strainer Screw-in Cap • Blow-off Plug Class 250  T-751-A 20 Mesh or SS Perforated Screen Sizes 1/4" - 3" Threaded Page 72	Iron Y-Strainer Bolted Bonnet • Blow-off Plug Class 125  F-721-A 20 Mesh or SS Perforated Screen Sizes 2" - 16" Flanged Page 73

NOTE: Check valves should never be installed immediately adjacent to a pump discharge or change in direction. Check Valves should be installed downstream from all sources of line turbulence, including fittings and valves, at a minimum of 5x the nominal pipe diameter (preferably 10x) with straight piping to provide laminar flow.

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. ¹ 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. ¹ 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

†2" thru 4" have Bronze ASTM B584 Disc.

5" 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		B		D		E		F-918-B		T-918-B	
		A	A	A	A							Lbs.	Kg.	Lbs.	Kg.
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.

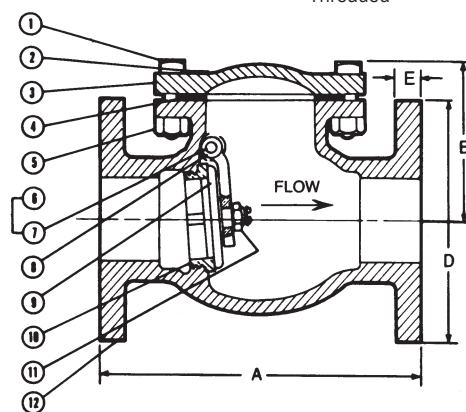
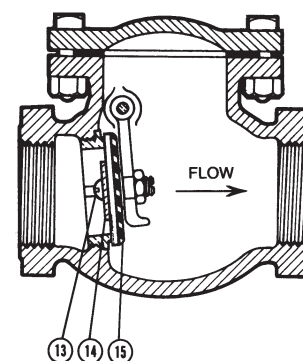
 Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

F-918-B

Flanged


T-918-B

Threaded


F-918-B
Flg x Flg

T-918
NPT x NPT
Buna-N Disc Shown

Class 125 Iron Body Check Valves

Bolted Bonnet • Horizontal Swing • Renewable Iron 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/SAE J429
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	Steel ASTM A307
7. Hanger Pin	Steel ASTM A 108 1214L
8. Hanger	Ductile Iron ASTM A536
9. Disc	Cast Iron ASTM A126 Class B or ASTM A536 Ductile Iron (2"-4")
10. Seat Ring	Cast Iron ASTM A126 Class B
11. Disc Nut	Steel ASTM A563
12. Body	Cast Iron ASTM A126 Class B
13. ¹ Disc Bolt	Mild Steel (not shown)

¹ 5" thru 12" only.

DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions Weight Conversions											
Size		Dimensions								Weight	
		A		B		D		E			
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
2	50	8.00	203	3.94	100	6.00	152	.63	16	24	11
2½	65	8.50	216	4.50	114	7.00	178	.69	17	35	16
3	80	9.50	241	5.13	130	7.50	191	.75	19	47	21
4	100	11.50	292	6.13	156	9.00	229	.94	24	80	36
5	125	13.00	330	6.81	173	10.00	254	.94	24	99	45
6	150	14.00	356	8.00	203	11.00	279	1.00	25	147	67
8	200	19.50	495	9.44	240	13.50	343	1.13	29	254	115
10	250	24.50	622	12.06	306	16.00	406	1.19	30	424	192
12	300	27.50	699	16.13	410	19.00	483	1.25	32	646	293

*Proper machining facilities required.

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.

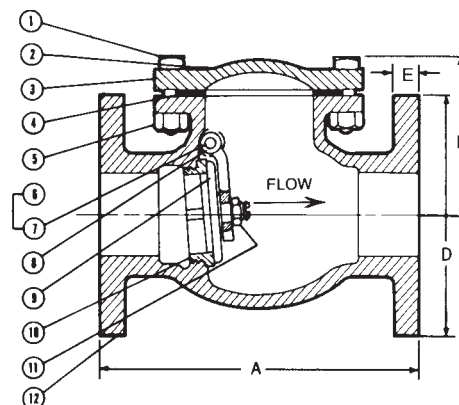
NIBCO Iron Body Check Valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position.

WARNING: Do not use for Reciprocating Air Compressor Service.

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



F-918-N
Flanged



F-918-N
Flg x Flg

Visit our website for the most current information.

Class 250 Iron Body Check Valves

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

500 PSI/34.5 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 250 PSI/17.2 bar

250 PSI/17.2 bar saturated steam to 406°F/208°C

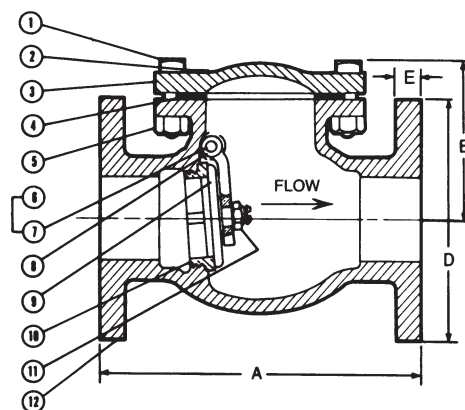
CONFORMS TO MSS SP-71 TYPE 1 • APPROVED BY
THE NEW YORK CITY B.S.A. 143-69-SA AT 350 PSI
NON-SHOCK COLD WATER

MATERIAL LIST

PART	SPECIFICATION
1. Body Bolt	Steel ASTM A307/SAE J429
2. Identification Plate	Aluminum
3. Bonnet	Cast Iron ASTM A126 Class B
4. Body Gasket	Reinforced Graphite
5. Body Nut	Steel ASTM A563
6. Side Plug	Brass ASTM B16 Alloy C36000
7. Hanger Pin	Brass ASTM B16 Alloy C36000
8. Hanger	Brass ASTM B584 Alloy C84400
9. Disc Nut	Brass ASTM B584 Alloy C84400
10. Disc	Brass ASTM B584 Alloy C84400
11. Seat Ring	Brass ASTM B584 Alloy C84400
12. Body	Cast Iron ASTM A126 Class B



F-968-B
Flanged



F-968-B
Flg x Flg

DIMENSIONS—WEIGHTS—QUANTITIES

Size		Dimensions								Weight	
		A		B		D		E			
		In.	mm.	In.	mm.	In.	mm.	In.	mm.		
2½	65	11.50	292	5.83	149	7.50	191	1.00	25	62	28
3	80	12.50	318	6.31	160	8.25	210	1.13	29	77	35
4	100	14.00	356	7.56	192	10.00	254	1.25	32	129	58
6	150	17.50	445	8.50	216	12.50	318	1.44	37	225	102

*Proper machining facilities required.

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.

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.

Visit our website for the most current information.

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

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

Class 125, 200 PSI/13.8 bar non-shock cold working pressure

Class 250, 400 PSI/27.6 bar non-shock cold working pressure

Maximum temperature to 200°F/93°C

W910-B-LF — 2" thru 10" ONLY

CERTIFIED LEAD-FREE* BY WQA TO NSF/ANSI 372

NSF/ANSI 61 CERTIFIED BY UL

CONFORMS TO MSS SP-125 • FM APPROVED



C USA
COMPONENT
LEAD-FREE



WATER QUALITY
NSF 61 CERTIFIED



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	Bronze ASTM B584 Alloy C87600
4. Spring	Stainless Steel ASTM A313 UNS S31600
5. Bushing	Aluminum Bronze B505 C95400
6. O-Ring	EPDM

DIMENSIONS—WEIGHTS

Size	Dimensions				W-910		W-960	
	In.	mm.	A	B	Lbs.	Kg.	Lbs.	Kg.
*2	50	4.25	108	2.63	6	5	6	3
*2½	65	5.00	127	2.88	7	3	7	3
*3	80	5.75	146	3.13	12	5	12	5
*4	100	7.00	178	4.00	18	8	18	8
*5	125	8.38	213	4.75	27	12	27	12
*6	150	9.75	248	5.50	42	19	42	19
8	200	13.38	340	6.50	†85	39	86	39
10	250	16.00	406	8.25	†99	45	†137	62

*NOTE: Sizes 2" thru 6" have dual class ratings (125 lb. and 250 lb.) resulting in W-910-LF and W-960-LF being identical. 8" and 10" have special machining in accordance with Flange Class.

†Class 125 only.

‡Class 250 only.

WARNING: 1. These are not to be used as steam valves.

2. Valves are not to be used near a reciprocating air compressor.

3. Do not install in vertical line with downward flow.

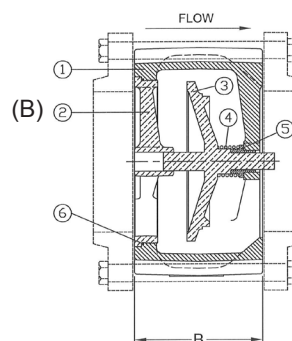
Note: On pump discharge, the preferred check valves are:

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

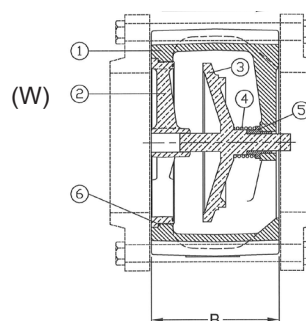
Install 5 pipe diameters minimum downstream from pump discharge or changes in direction to avoid flow turbulence. Flow straighteners may be required in extreme cases.

Note: W-960-LF 8" and 10" not FM approved.

W-910-LF 125 lb. Class
W-960-LF 250 lb. Class



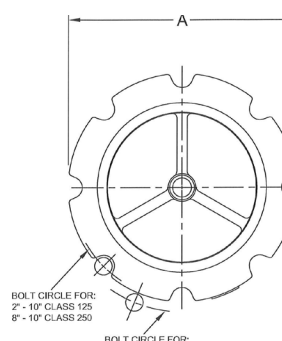
W-910-B-LF/W-960-B-LF
Wafer



W-910-W-LF/W-960-W-LF
Wafer

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 114.



W-910-B-LF/W-960-B-LF
Wafer

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

*Weighted average lead content ≤ 0.25%

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

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

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

²Class 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.	In.	mm.	Lbs.	Kg.
2½	65	5.50	140	24	11	30
3	80	6.00	152	29	13	36
4	100	7.25	184	42	19	59
5	125	8.50	216	52	24	78
6	150	9.75	248	73	33	103
8	200	12.50	318	126	57	179
10	250	15.50	394	205	93	253
12	300	14.25	362	306	139	401
14	350	15.75	400	350	172	511
16	400	17.63	448	501	227	697
18	450	18.75	476	724	328	959
20	500	20.63	524	890	404	1180
24	600	24.00	610	1220	553	1680
30	750	29.25	743	2000	907	2375
36	900	45.00	1143	4421	2005	5511

¹14" - 36" sizes - Class 125, 150 psi/10.3 bar CWP

²14" - 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.

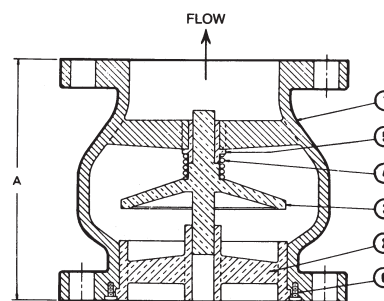
A Wafer Style Butterfly Valve can be mated on the down stream side of the F-910-LF 2½"-10" sizes without use of spacers or adapters. 316 Stainless Steel Trim available - Consult Factory.

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

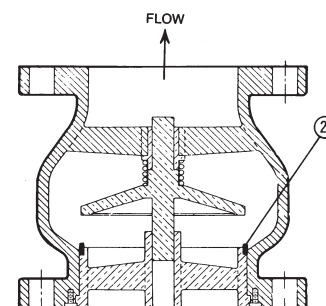
WARNING: 1. Seat end of valves 14" and larger must be mated to a standard flat faced metal flange.
Rubber flanges not acceptable.
2. These are not to be used as steam valves.
3. Valves are not to be used near a reciprocating air compressor.
4. Do not install in vertical line with downward flow.

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.



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

*Weighted average lead content ≤ 0.25%

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

Lead-Free* Class 125 Iron Body Check Valves

Twin Disc • Wafer Style • Bronze Disc • Rubber Seat • Spring Actuated

250 PSI/17.2 bar non-shock cold working pressure
Maximum temperature to 180°F/82°C

 CERTIFIED LEAD-FREE* BY WQA TO NSF/ANSI 372 •
 NSF/ANSI 61 CERTIFIED BY UL •
 CONFORMS TO AWWA C518

MATERIAL LIST

PART	SPECIFICATION
1. Body	Ductile Iron ASTM A536 Grade 65-45-12 w/Buna-N (Nitrile) resilient seat molded to body
2. Disc	Bronze ASTM B584 UNS C87600
3. Torsion Spring	Stainless Steel ASTM A313 UNS S31600
4. Disc Thrust Bearing	Stainless Steel ASTM A240 UNS S31600
5. Stabilization Sphere	Buna-N
6. Hinge Pin Retainer	Stainless Steel ASTM A276 UNS S31600
7. Stop Pin Retainer	Stainless Steel ASTM A276 UNS S31600
8. Disc Hinge Pin	Stainless Steel ASTM A276 UNS S31600
9. Spacer	Stainless Steel ASTM A276 UNS S31600
10. Disc Stop Pin	Stainless Steel ASTM A276 UNS S31600



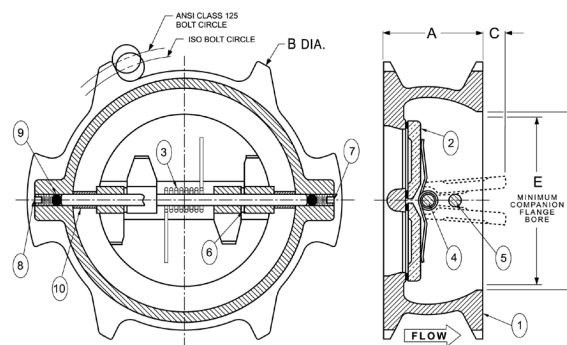
W-920-W-LF
Wafer



C USA
COMPONENT
LEAD-FREE



WATER QUALITY
NSF 61 CERTIFIED



2" thru 12"

DIMENSIONS—WEIGHTS

Dimensions													
Size		A		B		C		D		E		Weight	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
2	50	2.13	54	5.13	130	—	—	2.88	73	—	—	4	2
2½	65	2.38	60	6.00	152	.13	3.3	3.50	89	1.31	33	5	2
3	80	2.63	67	5.63	143	.19	4.8	3.88	99	1.69	43	7	3
4	100	2.63	67	7.75	197	.63	16.0	4.75	121	3.06	78	9	4
5	125	3.25	83	7.56	192	.81	20.0	5.50	140	3.63	92	13	6
6	150	3.75	95	8.63	222	.81	32.0	6.25	171	4.25	146	19	9
8	200	5.00	127	12.25	279	1.00	33.0	8.00	222	5.50	197	37	17
10	250	5.50	140	14.75	340	2.06	64.0	10.25	276	8.50	248	65	30
12	300	7.13	181	17.38	410	1.94	60.0	12.00	327	9.25	279	94	43

NOTE: Twin Disc Check Valves can be installed horizontally or in the vertical position with flow up.

CAUTION: For horizontal flow applications, the valve must be installed with disc hinge pin in the vertical position, to insure proper operation.

WARNING: 1. Seat end of valve 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.

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.

Lead-Free* Class 125 Iron Body Check Valves

Twin Disc • Wafer Style • Bronze disc • Rubber seat • Spring actuated

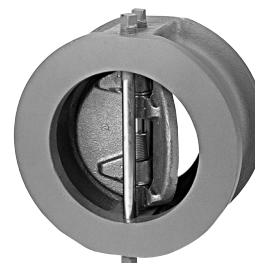
150 PSI/10.3 bar non-shock cold working pressure

Maximum temperature to 180°F/82°C

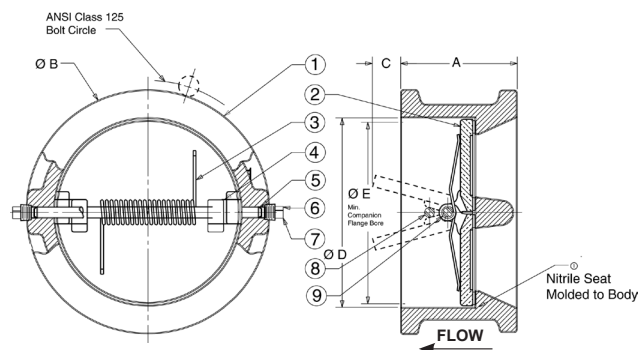
CERTIFIED LEAD-FREE* BY WQA TO NSF/ANSI 372 •
NSF/ANSI 61 CERTIFIED BY UL •
CONFORMS TO AWWA C518

MATERIAL LIST — 14" thru 24"

PART	SPECIFICATION
1. Body	Cast Iron ASTM A126 Class B w/Buna-N (Nitrile) resilient seat molded to body
2. Disc	Aluminum Bronze ASTM B148 C95200
3. Torsion Spring	Stainless Steel ASTM A313 UNS S31600 or UNS S17700
4. Disc Thrust Bearing	Stainless Steel ASTM A240 UNS S31600
5. Stabilization Sphere	Buna-N
6. Hinge Pin Retainer	Steel
7. Stop Pin Retainer	Steel
8. Disc Stop Pin	Stainless Steel ASTM A276 UNS S31600
9. Disc Hing Pin	Stainless Steel ASTM A276 UNS S31600



W-920-W-LF
Wafer



DIMENSIONS—WEIGHTS

Dimensions													
Size		A		B		C		D		E		Weight	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
14	350	7.25	184	17.75	451	3.25	83	14.38	365	12.50	318	187	85
16	400	7.50	191	20.25	514	4.50	114	16.38	416	15.00	381	270	122
18	450	8.00	203	21.63	549	5.38	137	18.38	467	17.00	432	350	150
20	500	8.38	213	23.88	606	6.38	162	20.25	514	19.00	483	424	192
24	600	8.75	222	28.25	718	8.50	216	24.25	616	23.00	584	589	267

NOTE: Twin Disc Check Valves can be installed horizontally or in the vertical position with flow up.

CAUTION: For horizontal flow applications, the valve must be installed with disc hinge pin in the vertical position, to insure proper operation.

WARNING: 1. Seat end of valve 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. Install 5 pipe diameters minimum downstream from pump discharge or elbows 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
- 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 www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

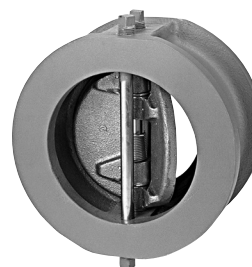
Class 125 Iron Body Check Valves

Twin Disc • Wafer Style • Bronze Disc • Rubber Seat •
Spring Actuated • Non-Slam • Silent Check

150 PSI/10.3 bar non-shock cold working pressure

Maximum temperature to 180°F/82°C

CERTIFIED LEAD-FREE* BY WQA TO NSF/ANSI 372 •
NSF/ANSI 61 CERTIFIED BY UL •
CONFORMS TO AWWA C518



W-920-W-LF

Wafer



C USA
COMPONENT LEAD-FREE



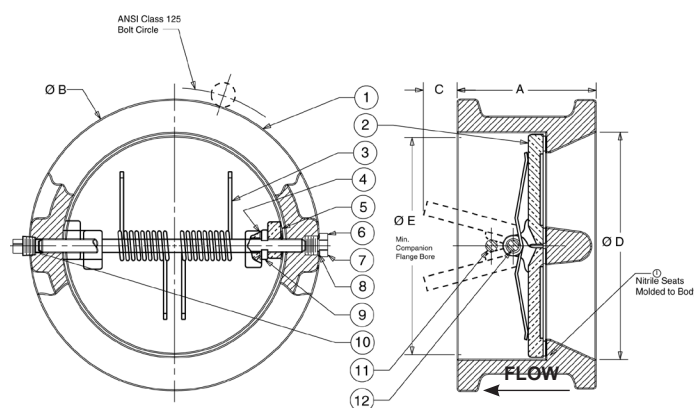
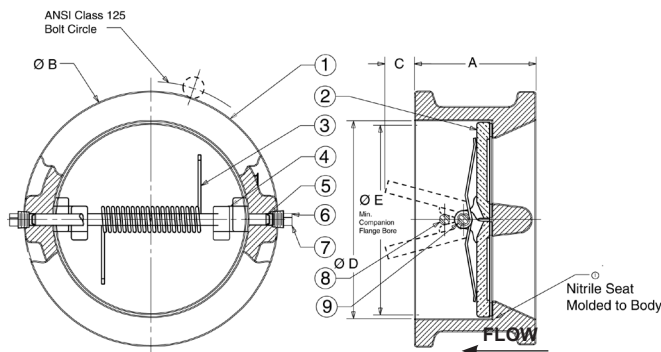
WATER QUALITY
NSF 61 CERTIFIED

MATERIAL LIST — 30"

PART	SPECIFICATION
1. Body	Cast Iron ASTM A126 Class B w/Buna-N (Nitrile) resilient seat molded to body
2. Disc	Aluminum Bronze ASTM B148 UNS C952000
3. Torsion Spring	Stainless Steel ASTM A 313 UNS S31600 or UNS S17700
4. Disc Thrust Bearing	Stainless Steel ASTM A 240 UNS S31600
5. Stabilization Sphere	Nitrile ASTM D 2000
6. Hinge Pin Retainer	Steel
7. Stop Pin Retainer	Steel
8. Disc Stop Pin	Stainless Steel ASTM A 276 UNS S31600
9. Disc Hing Pin	Stainless Steel ASTM A 276 UNS S31600

MATERIAL LIST — 36"

PART	SPECIFICATION
1. Body	Cast Iron ASTM A126 Class B
2. Disc	Nickel Plated D.I. ASTM A536 Grade 65-45-12
3. Torsion Spring	Stainless Steel ASTM A 313 UNS S31600 or UNS S17700
4. Inner Thrust Bearing	Stainless Steel ASTM A 240 UNS S31600
5. Outer Thrust Bearing	Stainless Steel ASTM A 240 UNS S31600
6. Hinge Pin Retainer	Steel
7. Stop Pin Retainer	Steel
8. O-Ring	Nitrile ASTM D 2000
9. Shaft Collar	Stainless Steel ASTM A 240 UNS S31600
10. Stabilization Sphere	Nitrile ASTM D 2000
11. Stop Pin	Stainless Steel ASTM A 276 UNS S31600
12. Hinge Pin	Stainless Steel ASTM A 276 UNS S31600



DIMENSIONS—WEIGHTS

Size		Dimensions										Weight	
		A		B		C		D		E			
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
30	750	12.00	305	34.75	883	9.50	241	30.00	762	28.50	724	1112	504
36	900	14.50	368	41.25	1048	12.00	305	36.00	914	34.50	876	1864	846

NOTE: Twin Disc Check Valves can be installed horizontally or in the vertical position with flow up.

CAUTION: For horizontal flow applications, the valve must be installed with disc hinge pin in the vertical position, to insure proper operation.

WARNING: 1. Seat end of valve 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.

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.

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

*Weighted average lead content ≤ 0.25%

Lead-Free* 250 PSI CWP Iron Body Grooved Silent Check Valves

Twin Disc • Grooved Style • Bronze Disc • Buna-N Seat • Spring Actuated

250 PSI/17.2 bar non-shock cold working pressure
Maximum temperature to 180°F/82°C at 220 PSI/15 bar

CERTIFIED LEAD-FREE* BY WQA TO NSF/ANSI 372
CONFORMS TO ANSI/AWWA C606 FOR STEEL IPS PIPE



C USA
COMPONENT
LEAD-FREE

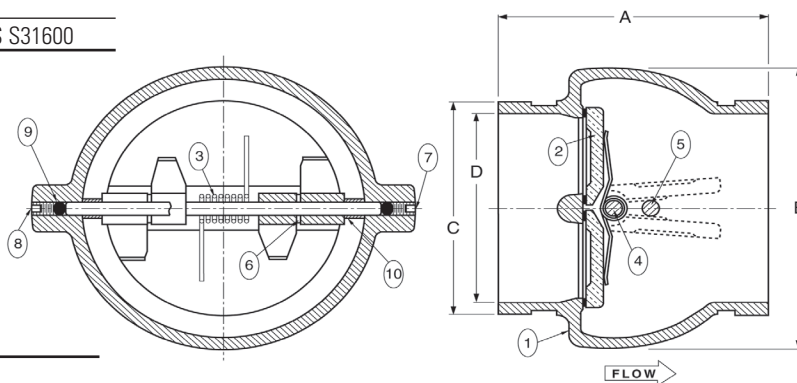


G-920-W-LF
Grooved

MATERIAL LIST

PART	SPECIFICATION
1. Body	Ductile Iron ASTM A536 Grade 65-45-12 w/Buna-N (Nitrile) resilient seat molded to body
2. Disc	Bronze ASTM B584 Alloy C87600
3. Torsion Spring	Stainless Steel ASTM A313 UNS S31600
4. Disc Hinge Pin	Stainless Steel ASTM A276 UNS S31600
5. Disc Stop Pin	Stainless Steel ASTM A276 UNS S31600
6. Disc Thrust Bearing	Stainless Steel ASTM A240 UNS S31600
7. Hinge Pin Retainer	Steel
8. Stop Pin Retainer	Steel
9. Stabilization Sphere	Buna-N
10. Spacer	Stainless Steel ASTM A276 UNS S31600

Sizes 10" and 12" furnished with lifting eyebolt



DIMENSIONS—WEIGHTS

Size		Dimensions								Weight	
		A		B		C		D			
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
2	50	4.66	111	4.13	105	2.38	60	2.00	51	3.30	1.49
2½	65	4.91	125	4.88	124	2.88	73	2.41	61	4.50	2.04
3	80	5.31	135	5.38	137	3.50	89	2.94	75	7.30	3.31
4	100	5.38	137	6.00	152	4.50	114	3.91	99	8.60	3.90
5	125	5.72	145	7.06	179	5.56	141	4.89	124	13.00	5.90
6	150	6.00	152	8.13	206	6.63	168	5.92	150	18.00	8.17
8	200	6.72	171	10.03	255	8.63	219	7.91	201	30.00	13.6
10	250	7.78	198	12.38	314	10.75	273	10.00	254	56.00	25.4
12	300	8.19	208	14.38	365	12.75	324	11.94	303	81.80	36.7

Groove dimensions conform to ANSI/AWWA specification C606 Table 4
(Cut Groove Dimensions)

NOTE: Twin Disc Check Valves can be installed horizontally or in the vertical position with flow up.

CAUTION: For horizontal flow applications, the valve must be installed with disc hinge pin in the vertical position to insure proper operation.

WARNING:

1. This valve is not to be used as a steam valve.
2. Valves are not to be used near a reciprocating air compressor.
3. Install 5 pipe diameters minimum downstream from pump discharge or elbows 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
- 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%

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Class 250 Iron Y-Strainers

Screw-In Cap • Blow-Off Plug • Threaded Ends • 20 Mesh Stainless Steel Screen or Stainless Steel Perforated Screen

250 PSI/17.2 bar saturated steam to 406°F/207°C

400 PSI/27.5 bar non-shock cold working pressure

CONFORMS TO ANSI B1.20.1 (NPT)

MATERIAL LIST

PART	SPECIFICATION
1. Body	Cast Iron ASTM A126 Class B
2. Cap	Cast Iron ASTM A126 Class B
3. Screen	Stainless Steel AISI 304
4. Gasket	Metal-Filled Graphite
5. Plug	Cast Iron ASTM A126 Class B

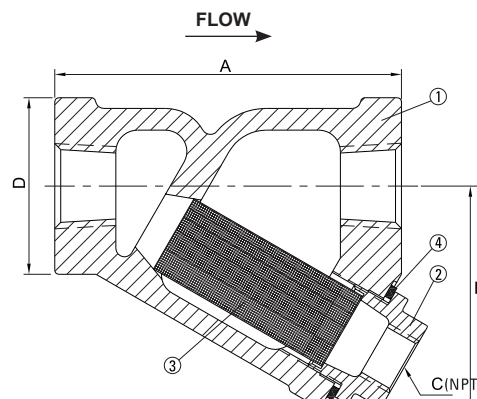


T-751-A

Threaded

DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions Weights											
Size		Dimensions								Weight Lbs. Kg.	
		A		B		C		D			
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.		
1/4	8	3.19	81.0	2.1	52.4	1/4	8	1.63	41.4	1.39	0.63
3/8	10	3.19	81.0	2.1	52.4	1/4	8	1.63	41.4	1.39	0.63
1/2	15	3.19	81.0	2.1	52.4	1/4	8	1.63	41.4	1.39	0.63
3/4	20	3.75	95.3	2.4	61.9	3/8	10	1.77	45.0	2.20	0.99
1	25	4.00	101.6	2.3	58.7	3/8	10	2.19	55.6	3.08	1.39
1¼	32	5.00	127.0	3.4	85.8	3/4	20	2.52	64.0	5.06	2.29
1½	40	5.75	146.1	3.9	98.4	3/4	20	2.99	75.9	7.70	3.49
2	50	7.00	177.8	4.8	120.7	1	25	3.54	89.9	12.54	5.68
2½	65	9.25	235.0	5.9	149.2	1½	40	4.25	108.0	24.42	11.08
3	80	10	25	6.0	152.4	1½	40	5.00	127.0	29.26	13.27



T-751-A

Threaded

1/4"	9.2	1¼"	44
3/8"	9.2	1½"	61
1/2"	9.2	2"	97
3/4"	19	2½"	130
1"	29	3"	160

NOTE: strainer drain plugs are installed hand tight only allowing easy removal for installation of manual drain valve. If manual drain valves are not used, installer must tighten drain plug for proper seal.

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.

Class 125 Iron Y-Strainer

Bolted Bonnet • Blow-Off Plug • Flanged End • 20 Mesh Stainless Steel Screen or Stainless Steel Perforated Screen

2" - 12": 125 PSI/8.6 bar saturated steam to 353°F/178°C
200 PSI/13.8 bar non-shock cold working pressure

14" & 16": 100 PSI/6.9 bar saturated steam to 353°F/178°C
150 PSI/ 10.3 bar non-shock cold working pressure

CONFORMS TO ANSI B16.1 (FLANGE)

MATERIAL LIST

PART	SPECIFICATION
1. Body	Cast Iron ASTM A126 Class B
2. Bonnet	Cast Iron ASTM A126 Class B
3. Screen	Stainless Steel AISI 304
4. Bolt	Carbon Steel ASTM A307
5. Gasket	Metal-Filled Graphite
6. Plug	Cast Iron ASTM A126 Class B

DIMENSIONS—WEIGHTS

Dimensions													
SIZE		A		B		C		D		E		Weight	
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.
2	50	7.87	199.9	5.25	133.4	½	15	6.0	152.4	2.00	50.8	18.00	8.16
2½	65	10.00	254.0	6.50	165.1	1	25	7.0	177.8	2.50	63.5	28.00	12.70
3	80	10.12	257.0	7.00	177.8	1	25	7.5	190.5	3.00	76.2	34.00	15.42
4	100	12.12	307.8	8.25	209.6	1 ½	40	9.0	228.6	4.00	101.6	60.00	27.22
5	125	15.62	396.7	11.25	285.8	2	50	10.0	254.0	5.00	127.0	95.00	43.09
6	150	18.50	469.9	13.50	342.9	2	50	11.0	279.4	6.00	152.4	133.00	60.33
8	200	21.62	549.1	15.50	393.7	2	50	13.5	342.9	8.00	203.2	247.00	112.04
10	250	26.00	660.4	18.50	469.9	2	50	16.0	406.4	10.00	264.0	320.00	145.15
12	300	29.87	758.7	21.75	552.5	2	50	19.0	482.6	12.00	304.8	579.00	262.63
14*	350	33.25	844.6	26.06	662.0	2	50	21.0	533.4	14.00	355.6	772.00	350.17
16*	400	38.75	984.3	30.15	765.8	2	50	23.5	596.9	16.00	406.4	1133.00	513.92

*Sizes 14" and 16" rated to 150 CWP, 100 SWP

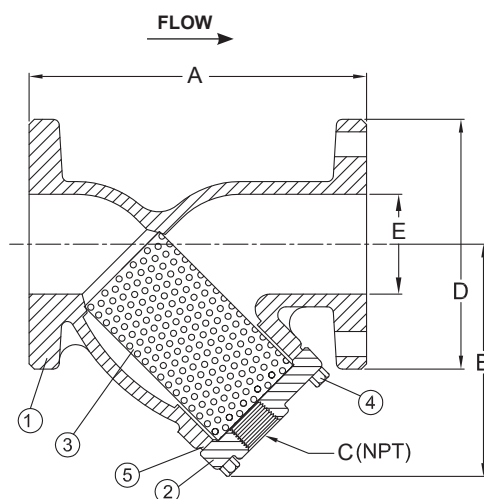
2"	68	8"	925
2½"	125	10"	1692
3"	162	12"	2260
4"	273	14"	3200
5"	382	16"	4950
6"	557		

NOTE: 2" - 12": 125 psi saturated steam to 353°F/178°C and 200 psi CWP
14" and 16": 100 psi saturated steam to 85°F/150 psi CWP

NOTE: strainer drain plugs are installed hand tight only allowing easy removal for installation of manual drain valve. If manual drain valves are not used, installer must tighten drain plug for proper seal.



F-721-A
Flanged



F-721-A
Flanged

SCREEN SIZE:

**2" - 4": 1/16" perforation
(37% open area)**
**5" - 16": 1/8" perforation
(40% open area)**

Visit www.nibco.com for current Chem-Guide and galvanic potential in piping systems information.