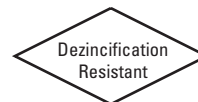


Bronze Check Valves Illustrated Index



Bronze Check Valve
Horizontal Swing
125 lb. SWP
200 lb. CWP



T or S-413-B or V, W, Y
Bronze or Various Non-Metallic Discs
Regrinding Type • Y-Pattern
Sizes 1/4" thru 3"
Threaded or Solder Ends
Page 32

Bronze Check Valve
Horizontal Swing
150 lb. SWP
300 lb. CWP



T or S-433-B or Y
Bronze or TFE Discs
Regrinding Type • Y-Pattern
Sizes 1/4" thru 3"
Threaded or Solder Ends
Page 33

Bronze Check Valve
Horizontal Swing
150 lb. SWP
300 lb. CWP



S-433-B
Bronze Disc
Regrinding Type • Bolted Bonnet
Size 4"
Solder Ends
Page 34

Bronze Check Valve
Horizontal Swing
200 lb. SWP
400 lb. CWP



T-453-B
Bronze Disc
Regrinding Type • Y-Pattern
Sizes 1/4" thru 3"
Threaded Ends
Page 35

Bronze Check Valve
Horizontal Swing
300 lb. SWP
600 lb. CWP



T-473-B or Y
Bronze or TFE Disc
Regrinding Type • Y-Pattern
Sizes 3/8" thru 2"
Threaded Ends
Page 36

Bronze Silent Check Valve
Ring Check Design • Spring Actuated
125 lb. SWP, 250 lb. CWP (TFE Disc)
250 lb. CWP (Buna-N Disc)



T or S-480
Buna-N or TFE Disc (Y-suffix)
Sizes 3/8" thru 2"
Threaded or Solder Ends
Page 37

Class 125 Bronze Check Valves

Horizontal Swing • Regrinding 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	Bronze ASTM B 140 Alloy C31400 or B 134 Alloy C23000
4. Disc Hanger	Bronze ASTM B 62 or 304 Stainless Steel 1/4" thru 3/4" sizes
5. Hanger Nut	Bronze ASTM B 16
6. Disc Holder	Bronze ASTM B 62
7. Seat Disc	Water, Oil or Gas (Buna-N) (W) Steam (TFE) (Y) Bronze ASTM B 62 (B) Viton® (V)
8. Seat Disc Nut	Bronze ASTM B 16 or B 62
9. Hinge Pin Plug	Bronze ASTM B 140 Alloy C32000 (not shown)
*10. Seat Disc Washer	ASTM B 98 Alloy C65500 or ASTM B 103

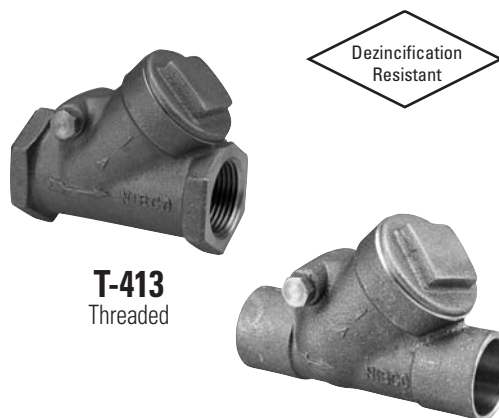
* Sizes 3/4", 1", 1 1/4", 1 1/2" and 2" only.

DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions						T-413		S-413		Master Ctn. Qty.	
	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.		
1/4	8	2.13	54	1.63	41	1.38	35	0.50	0.23	0.51	0.23	50
3/8	10	2.13	54	1.63	41	1.31	33	0.47	0.22	0.48	0.22	50
1/2	15	2.44	62	1.69	43	1.50	38	0.55	0.25	0.55	0.25	50
3/4	20	2.94	75	1.88	48	1.88	48	0.90	0.41	0.88	0.40	50
1	25	3.56	90	2.31	59	2.25	57	1.46	0.66	1.48	0.67	30
1 1/4	32	4.19	106	2.69	68	2.75	70	2.17	0.99	2.22	1.01	20
1 1/2	40	4.50	114	2.94	75	1.13	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
2 1/2*	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

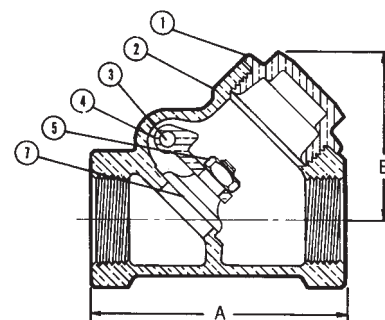
Ordering: T-413 and S-413 normally furnished with Bronze Disc (T-413-B) or (S-413-B).
Both available with TFE Steam Disc (T-413-Y), (S-413-Y), or CWP Disc (T-413-W), (S-413-W)
or 300° F 67 PSI steam Viton Disc (T-413-V).

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

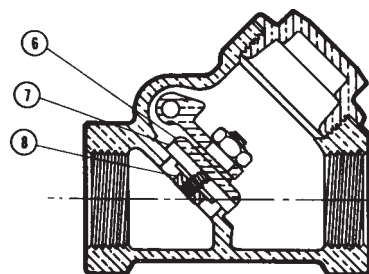


T-413
Threaded

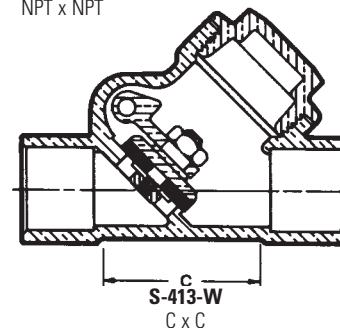
S-413
Solder



T-413-B
NPT x NPT



T-413-Y
NPT x NPT



S-413-W
C x C

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 107.

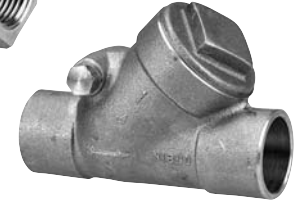
Class 150 Bronze Check Valves

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

150 PSI/10.3 Bar Saturated Steam to 366° F/185° C
300 PSI/20.7 Bar Non-Shock Cold Working Pressure♦



T-433
Threaded



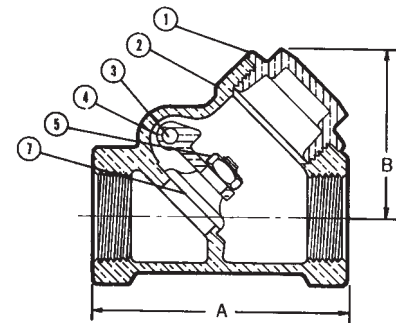
S-433
Solder

CONFORMS TO MSS SP-80

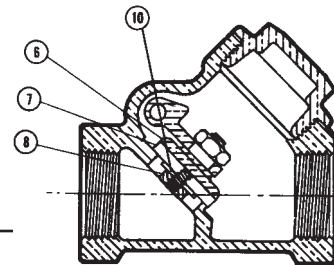
MATERIAL LIST

PART	SPECIFICATION
1. Bonnet	Bronze ASTM B 62
2. Body	Bronze ASTM B 62
3. Hinge Pin	Bronze ASTM B 140 Alloy C31400 or B 134 Alloy C23000
4. Disc Hanger	Bronze ASTM B 62 or 304 Stainless Steel 1/4" thru 3/4" sizes
5. Hanger Nut	Bronze ASTM B 16
6. Disc Holder	Bronze ASTM B 62
7. Seat Disc	Steam (TFE) (Y) Bronze ASTM B 62 (B)
8. Seat Disc Nut	Bronze ASTM B 16 or B 62
9. Hinge Pin Plug	Bronze ASTM B 140 Alloy C31600 (not shown)
*10. Seat Disc Washer	ASTM B 98 Alloy C65500 or ASTM B 103

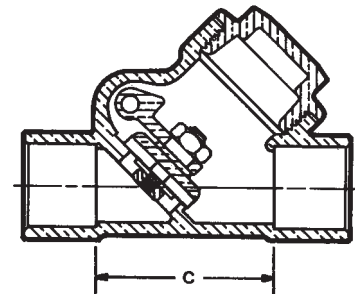
* Sizes 3/4", 1", 1 1/4", 1 1/2" and 2" only.



T-433-B
NPT x NPT



T-433-Y
NPT x NPT



S-433-Y
C x C

DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions								T-433		S-433		Master Ctn. Qty.	
	A		B		C		D		Lbs.	Kg.	Lbs.	Kg.		
1/4	8	2.13	54	1.63	41	1.63	41	1.38	35	0.54	0.24	0.54	0.24	50
3/8	10	2.13	54	1.63	41	1.63	41	1.31	33	0.54	0.24	0.53	0.24	50
1/2	15	2.44	62	1.69	43	1.69	43	1.50	38	0.60	0.27	0.60	0.27	50
3/4	20	2.94	75	1.88	48	1.88	48	1.88	48	0.98	0.44	0.99	0.45	50
1	25	3.56	90	2.31	59	2.31	59	2.25	57	1.58	0.72	1.57	0.71	30
1 1/4	32	4.19	106	2.69	68	2.69	68	2.75	70	2.39	1.08	2.34	1.06	20
1 1/2	40	4.50	114	2.94	75	2.94	75	3.13	79	3.16	1.43	3.11	1.41	10
2	50	5.25	133	3.94	100	3.94	100	3.75	95	5.41	2.45	5.34	2.42	10
2 1/2	65	8.00	203	5.06	129	5.06	129	5.31	135	11.48	5.21	11.20	5.08	5
3	80	9.25	235	6.25	159	6.25	159	6.25	159	17.53	7.95	16.91	7.67	4

Ordering: T-433 and S-433 normally furnished with Bronze Disc (T-433-B) or (S-433-B).
Both available with TFE Steam Disc (T-433-Y), (S-433-Y).

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 107.

Class 150 Bronze Check Valves

Bolted Bonnet • Horizontal Swing • Regrinding Type •
Renewable Seat and Disc

150 PSI/10.3 Bar Saturated Steam to 366° F/185° C
300 PSI/20.7 Bar Non-Shock Cold Working Pressure♦



S-433-B
Solder

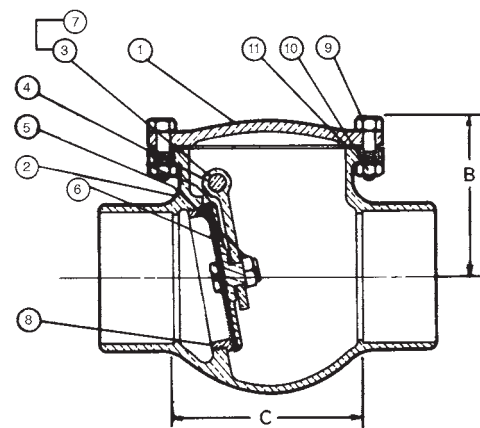
CONFORMS TO MSS SP-80

MATERIAL LIST

PART	SPECIFICATION
1. Bonnet	Bronze ASTM B 62
2. Body	Bronze ASTM B 62
3. Hinge Pin	ASTM B 371 Alloy C69400
4. Disc Hanger	Bronze ASTM B 62
5. Hanger Nut	ASTM B 62 Alloy C83600
6. Disc	Bronze ASTM B 62 (B)
7. Hinge Pin Plug	Bronze ASTM B 140 Alloy C32000
8. Seat Ring	Bronze ASTM B 62
9. Body Bolt	Zinc Plated Steel
10. Body Nut	Zinc Plated Steel
11. Gasket	Aramid Fibres with Graphite

DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions				S-433-B		Master Ctn. Qty.	
	B		C		Lbs.	Kg.		
In.	mm.	In.	mm.	In.	mm.			
4	100	6.19	157	7.38	187	37	16.78	1



S-433-B
C x C

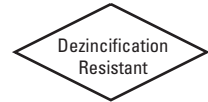
NIBCO check valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position. They will operate satisfactorily in a declining plane (no more than 15°).

Warning – Do Not Use For Reciprocating Air Compressor Service.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 107.

Class 200 Bronze Check Valves

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

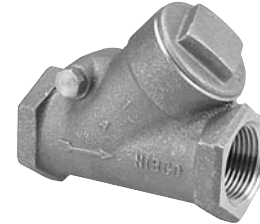


200 PSI/13.8 Bar Saturated Steam to 391° F/201° C
400 PSI/27.6 Bar Non-Shock Cold Working Pressure♦

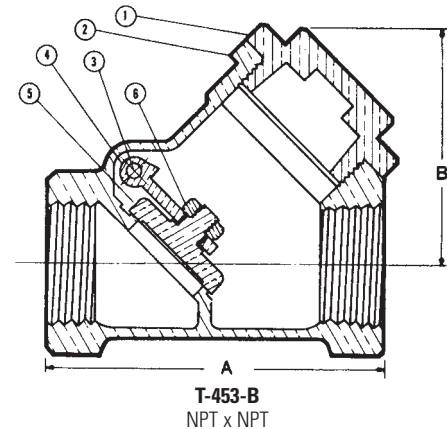
CONFORMS TO MSS SP-80

MATERIAL LIST

PART	SPECIFICATION
1. Bonnet	Bronze ASTM B 61
2. Body	Bronze ASTM B 61
3. Hinge Pin	Bronze ASTM B 140 Alloy C31400 or B 134 Alloy C23000
4. Disc Hanger	Bronze ASTM B 61 or 304 Stainless Steel ¼" thru ¾" sizes
5. Seat Disc	Bronze ASTM B 61
6. Hanger Nut	Bronze ASTM B 16
7. Hinge Pin Plug	ASTM B 140 Alloy C31600 (not shown)



T-453-B
Threaded



DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions				T-453-B		Master Ctn. Qty.	
	A		B		Lbs.	Kg.		
In.	mm.	In.	mm.	In.	mm.			
¼	8	2.25	57	1.56	40	0.53	0.24	50
⅜	10	2.25	57	1.56	40	0.54	0.24	50
½	15	2.63	67	1.75	44	0.60	0.27	50
¾	20	3.13	79	2.06	52	0.99	0.45	25
1	25	3.75	95	2.44	62	1.56	0.71	30
1¼	32	4.38	111	3.13	79	2.33	1.06	10
1½	40	4.94	125	3.75	95	3.11	1.41	10
2	50	5.81	148	4.50	114	5.33	2.42	5
2½	65	8.00	203	5.31	135	13.72	6.22	5
3	80	9.25	235	6.25	159	17.64	8.00	4

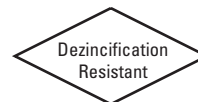
NIBCO check valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position. They will operate satisfactorily in a declining plane (no more than 15°).

Warning – Do Not Use For Reciprocating Air Compressor Service.

♦ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 107.

Class 300 Bronze Check Valves

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



300 PSI/20.7 Bar Saturated Steam to 421° F/216° C
600 PSI/41.4 Bar Non-Shock Cold Working Pressure ♦

CONFORMS TO MSS SP-80

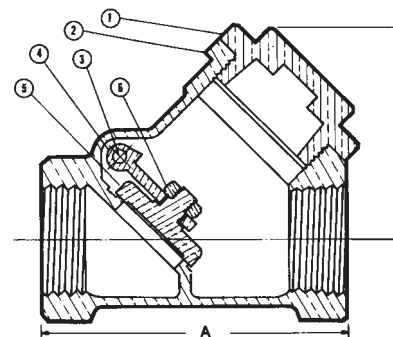
MATERIAL LIST

PART	SPECIFICATION
1. Bonnet	Bronze ASTM B 61
2. Body	Bronze ASTM B 61
3. Hinge Pin	Bronze ASTM B 140 Alloy C31400 or B 134 Alloy C23000
4. Disc Hanger	Bronze ASTM B 61 or 304 Stainless Steel 1/4" thru 3/4" sizes
5. Seat Disc	Bronze ASTM B 61 (B) Steam (TFE) (Y)
6. Hanger Nut	Bronze ASTM B 16
7. Hinge Pin Plug	Bronze ASTM B 140 Alloy C31600 (not shown)
8. Disc Holder	Bronze ASTM B 61
9. Disc Nut	Bronze ASTM B 62 or B 16
*10. Seat Disc Washer	ASTM B 98 Alloy C65500 (not shown) or ASTM B 103 (not shown)

* Sizes 3/4", 1", 1 1/4", 1 1/2" and 2" only.



T-473
Threaded

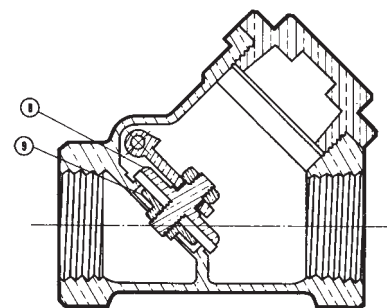


T-473-B
NPT x NPT

DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions				T-473		Master Ctn. Qty.	
	A		B		Lbs.	Kg.		
In.	mm.	In.	mm.	In.	mm.			
1/4	8	2.25	57	1.56	40	0.57	0.26	50
3/8	10	2.25	57	1.56	40	0.57	0.26	50
1/2	15	2.63	67	1.75	44	0.69	0.31	50
3/4	20	3.13	79	2.06	52	1.02	0.46	25
1	25	3.75	95	2.44	62	1.65	0.75	30
1 1/4	32	4.38	111	3.13	79	2.98	1.35	10
1 1/2	40	4.94	125	3.75	95	4.81	2.18	10
2	50	5.81	148	4.50	114	8.13	3.69	5

Ordering: T-473 is normally furnished with Bronze Disc (T-473-B). Available with TFE Steam Disc (T-473-Y).



T-473-Y
NPT x NPT

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.

Class 125 Bronze Ring Check® Valves

Inline Lift Type • Resilient Discs • Spring Actuated



125 PSI/8.6 Bar Saturated Steam (TFE Disc)
250 PSI/17.2 Bar Non-Shock Cold Working Pressure♦

CONFORMS TO MSS SP-80

MATERIAL LIST

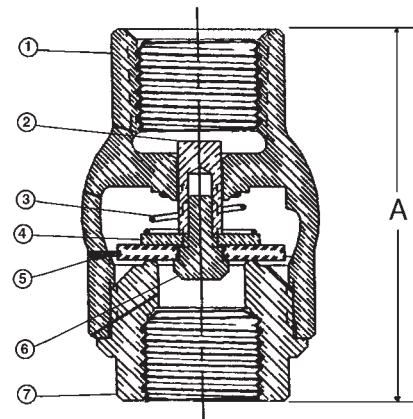
PART	SPECIFICATION
1. Body	Bronze ASTM B 584 Alloy C84400
2. Stem	Stainless Steel ASTM A 582 Alloy C30300
3. Spring	316 Stainless Steel
4. Disc Holder	Stainless Steel Type 301
5. Disc	Water, Oil or Gas (Buna-N) Steam (TFE) (Y)
6. Seat Screw	Stainless Steel ASTM A 276 Alloy S43000
7. Body End	Bronze ASTM B 584 Alloy C84400



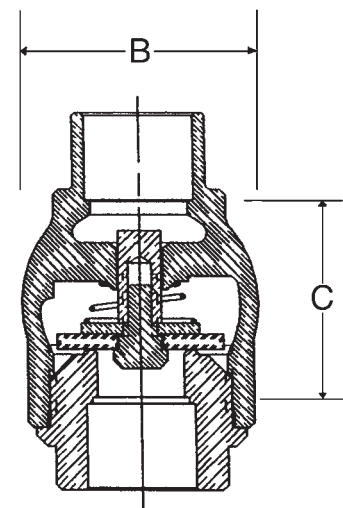
T-480
Threaded



S-480
Solder



T-480-Y (TFE Disc)
NPT x NPT



S-480-Y (TFE Disc)
C x C

DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions						T-480		S-480		Master Ctn. Qty.	
	A		B		C		In.	mm.	Lbs.	Kg.		
3/8	10	2.00	51	1.38	35	1.44	37	0.41	0.19	0.44	0.20	100
1/2	15	2.06	52	1.38	35	1.19	30	0.36	0.16	0.40	0.18	100
3/4	20	2.25	57	1.63	41	1.31	33	0.48	0.22	0.52	0.24	100
1	25	2.63	67	2.00	51	1.50	38	0.77	0.35	0.85	0.39	50
1 1/4	32	2.94	75	2.38	60	1.69	43	1.14	0.51	1.28	0.58	30
1 1/2	40	3.31	84	2.75	70	2.00	51	1.63	0.74	1.75	0.79	30
2	50	3.69	94	3.38	86	2.31	59	2.27	1.03	2.70	1.23	10

Ordering: The T-480 and S-480 both have standard Buna-N Discs.

Also available with TFE (Y) Discs; specify T-480-Y or S-480-Y.

3/8" and 1/2" require 1 1/2 pounds pressure to open.

3/4" thru 2" require 1/2 pound pressure to open.

NIBCO 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 107.