

# Fairbanks® Valves



**BRONZE**



**IRON**

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**Gate • Globe • Check**

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# BRONZE

## Gate Valves

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# IRON

## Gate Valves

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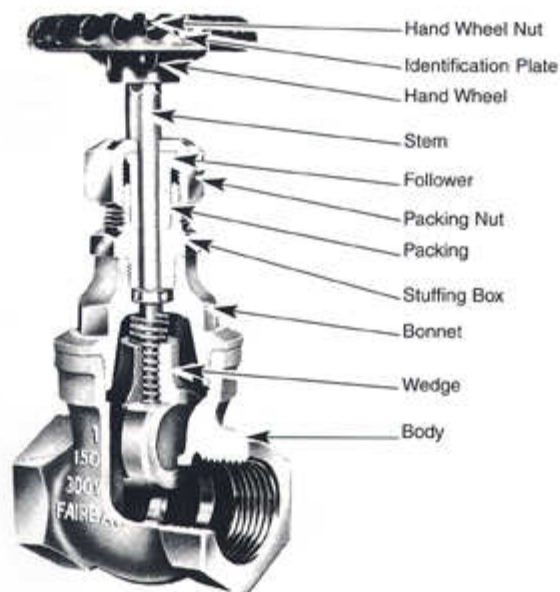
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### Fairbanks Bronze Gate Valves General Information



Bronze Gate Valve  
Solid Wedge Non-Rising Stem  
Fig. 0250

**APPLICATION** - Gate valves are designed for use in the fully open or fully closed position and are not recommended for throttling. Because of its low resistance to flow when fully open, the gate valve is particularly desirable and generally recommended for use in applications where a minimum pressure drop is required. Where throttling is a requirement, Fairbanks recommends the use of a globe valve.

Fairbanks gate valves are designed with the wedge positively guided in the body by a slot on one part and a rib on the mating part. This positive guiding action allows the valve to be installed in any position on the line, but whenever possible, any valve should be installed in the vertical upright position. Fairbanks valves are designed so that the wedge completely clears the waterway when fully open.

Gate valves are not recommended for use on lines containing abrasive materials due to the sliding action of the wedge against the body seat as the valve is opened and closed. Also, gate valves should be opened and closed slowly to prevent setting up shock loads which could damage the valve and piping system. An added advantage to closing a gate valve slowly is the washing action which occurs due to the high velocity flow just prior to closure.

Fairbanks gate valves are designed with a solid wedge. The solid wedge design is suitable for most applications including steam, air and fluids.

Fairbanks gate valves are available in non-rising stem (NRS) for use in restricted areas, rising stem (RS) for visual awareness and outside screw and yoke (OS&Y) for isolation of stem threads from the line of flow. Contact your Fairbanks representative for details.

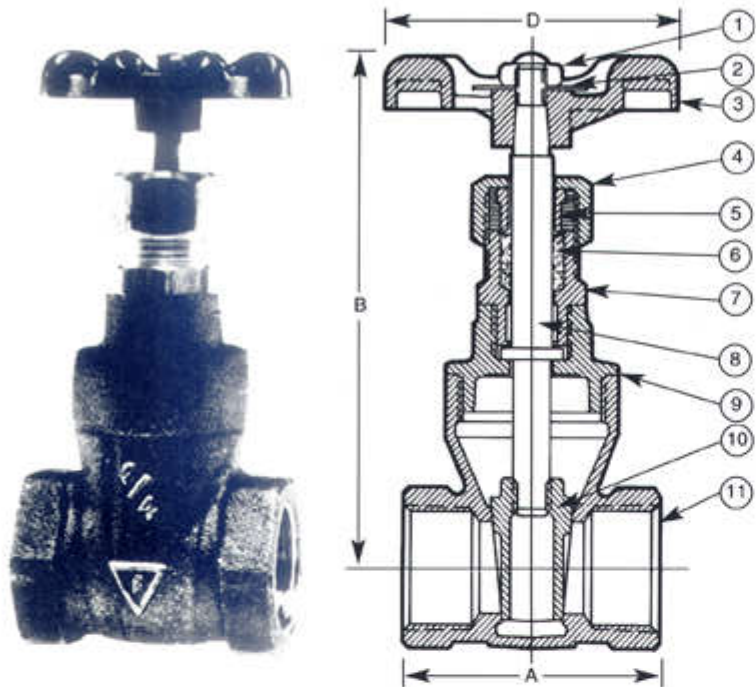
# Bronze Gate Valve

## Class 125

# Fairbanks®

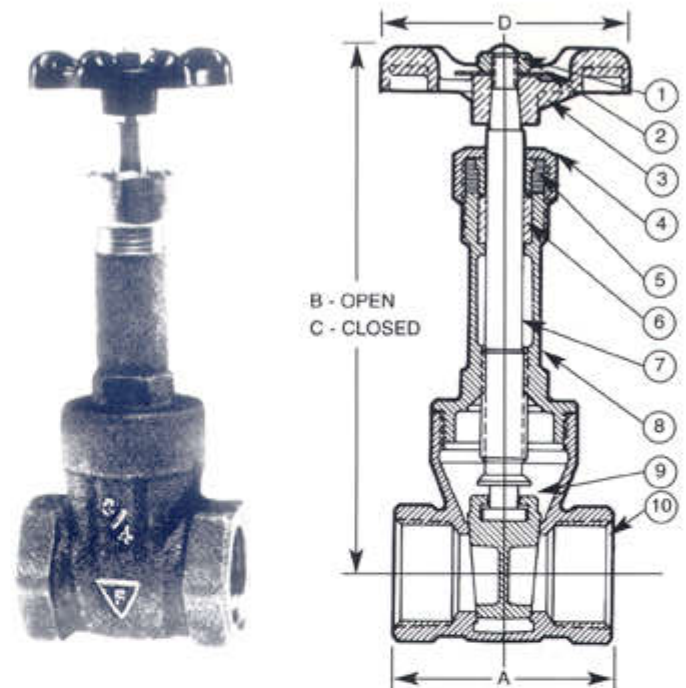
**Fig. 3050 Gate Valve**  
 1/4"-4" 125 PSI SWP 200 PSI CWP  
 Threaded - Non-Rising Stem - Screw-In Bonnet

Conforms to MSS SP-80  
 Federal Specification WW-V-54 Type I, Class A



**Fig. 3052 Gate Valve**  
 1/4"-3" 125 PSI SWP 200 PSI CWP  
 Threaded - Rising Stem - Screw-In Bonnet

Conforms to MSS SP-80  
 Federal Specification WW-V-54 Type II, Class A



### 3050 PART

1. Handwheel Nut	Steel, Zinc Plated
2. Identification Plate	Aluminum
3. Handwheel	Aluminum ASTM B-85
4. Packing Nut 1/4"-2"	Brass ASTM B-16
5. Packing Nut 2 1/2"-4"	Bronze ASTM B-62
6. Packing	PTFE
7. Stuffing Box	Brass ASTM B-16
8. Stem	Brass ASTM B-16
9. Bonnet	Bronze ASTM B-62
10. Wedge	Bronze ASTM B-62
11. Body	Bronze ASTM B-62

### SPECIFICATION

### 3052 PART

1. Handwheel Nut	Steel, Zinc Plated
2. Identification Plate	Aluminum
3. Handwheel	Aluminum ASTM B-85
4. Packing Nut 1/4"-2"	Brass ASTM B-16
5. Packing Nut 2 1/2"-3"	Bronze ASTM B-62
6. Packing	PTFE
7. Stem	Brass ASTM B-16
8. Bonnet	Bronze ASTM B-62
9. Wedge	Bronze ASTM B-62
10. Body	Bronze ASTM B-62

### SPECIFICATION

SIZE	3050 DIMENSIONS (in.)		
	A	B	D
1/4"	1 11/16	3	2 1/16
3/8"	1 11/16	3 1/32	2 1/16
1/2"	1 11/16	3 1/32	2 1/16
3/4"	1 15/16	3 17/32	2 5/16
1"	2 1/8	4 1/32	2 5/16
1 1/4"	2 3/8	4 1/2	2 23/32
1 1/2"	2 17/32	5 1/4	2 19/16
2"	2 27/32	6 13/32	3 11/32
2 1/2"	3 7/16	7 15/16	4 1/32
3"	3 27/32	8 13/16	4 11/16
4"	4 5/8	11 1/4	5 3/16

SIZE	3052 DIMENSIONS (in.)			
	A	B	C	D
1/4"	1 11/16	3 5/8	3 13/16	2 1/16
3/8"	1 11/16	4 7/16	3 13/16	2 1/16
1/2"	1 7/8	4 15/32	3 7/8	2 1/16
3/4"	2 3/16	5 7/16	4 13/16	2 23/32
1"	2 7/16	7	5 7/8	2 15/16
1 1/4"	2 5/8	8 1/32	6 5/8	3 11/32
1 1/2"	2 13/16	9 1/8	7 7/16	3 11/32
2"	3 7/32	11 5/8	9 3/8	4 1/32
2 1/2"	3 11/16	13 1/4	10 25/32	4 11/16
3"	4 1/16	15 7/16	12 3/8	5 3/16

### WEIGHT (lbs.)

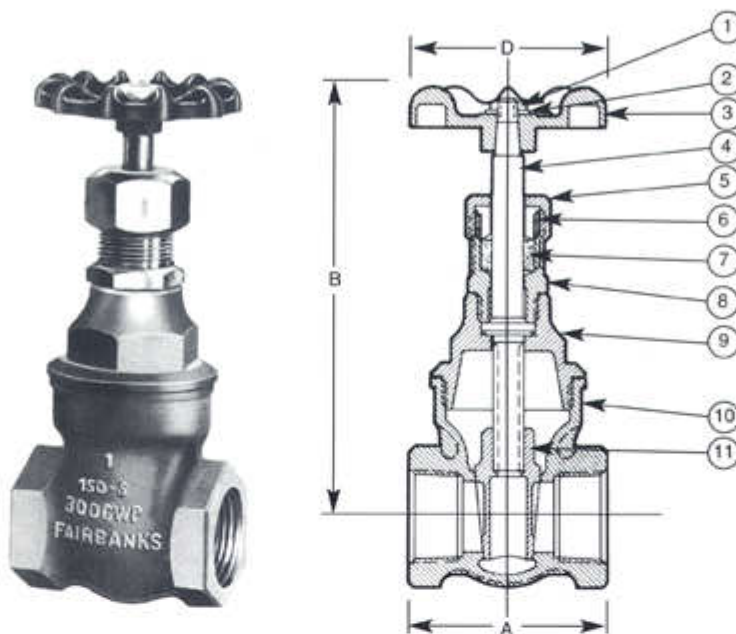
SIZE	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
3050	0.6	0.5	0.6	0.9	1.6	2.1	3.0	4.4	10.2	14.5	15.0

### WEIGHT (lbs.)

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
3052	0.6	0.6	0.7	1.0	1.7	2.4	3.3	5.0	11.2	15.5

**Fig. 0250 Gate Valve**  
 $\frac{1}{4}$ "–3" 150 PSI SWP 300 PSI CWP  
 Threaded – Non-Rising Stem – Screw-In Bonnet

Conforms to MSS SP-80  
 Federal Specification WW-V-54 Type I, Class B



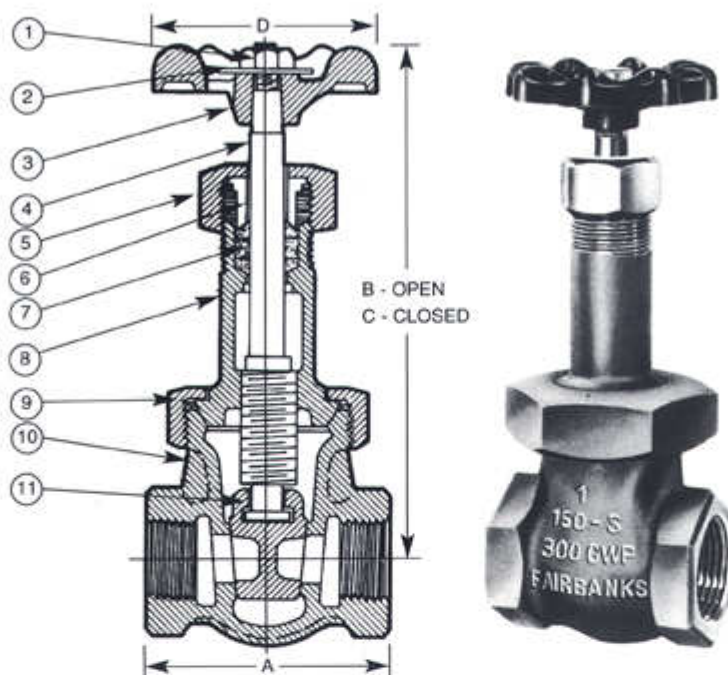
0250 PART	SPECIFICATION
1. Handwheel Nut	Steel, Zinc Plated
2. Identification Plate	Aluminum
3. Handwheel	Aluminum ASTM B-85
4. Stem	Bronze ASTM B-584 Alloy 875
5. Packing Nut	Brass ASTM B-16
6. Follower	Brass ASTM B-16
7. Packing	PTFE
8. Stuffing Box	Bronze ASTM B-62
9. Bonnet $\frac{1}{4}$ "–2"	Brass ASTM B-16
9. Bonnet $2\frac{1}{2}$ "–3"	Bronze ASTM B-62
10. Body	Bronze ASTM B-62
11. Wedge	Bronze ASTM B-62

SIZE	0250 DIMENSIONS (in.)		
	A	B	D
$\frac{1}{4}$ "	$1\frac{25}{32}$	$3\frac{3}{4}$	$1\frac{25}{32}$
$\frac{3}{8}$ "	$1\frac{31}{32}$	$3\frac{3}{4}$	$1\frac{3}{4}$
$\frac{1}{2}$ "	$2\frac{3}{16}$	$4\frac{7}{16}$	$2\frac{1}{32}$
$\frac{3}{4}$ "	$2\frac{3}{8}$	$5\frac{3}{16}$	$2\frac{3}{4}$
1"	$2\frac{3}{4}$	$5\frac{31}{32}$	$2\frac{3}{4}$
$1\frac{1}{4}$ "	$3\frac{1}{8}$	$6\frac{5}{8}$	3
$1\frac{1}{2}$ "	$3\frac{17}{32}$	$7\frac{1}{4}$	$3\frac{23}{32}$
2"	$4\frac{5}{32}$	$8\frac{5}{8}$	$4\frac{1}{32}$
$2\frac{1}{2}$ "	$4\frac{1}{2}$	$10\frac{1}{16}$	5
3"	5	$11\frac{1}{4}$	5

SIZE	WEIGHT (lbs.)									
	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"	$2\frac{1}{2}$ "	3"
0250	0.8	0.8	1.1	1.7	2.8	3.9	5.4	8.3	13.5	18.0

**Fig. U-0252 Gate Valve**  
 1/4"-3" 150 PSI SWP 300 PSI CWP  
 Threaded - Rising Stem - Union Bonnet

Conforms to MSS SP-80  
 Federal Specification WW-V-54 Type II, Class B



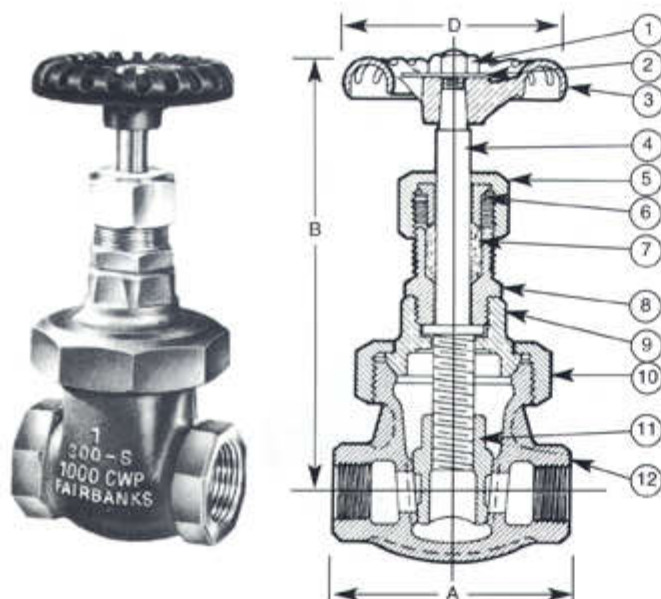
PART	SPECIFICATION
1. Handwheel Nut	Steel, Zinc Plated
2. Identification Plate	Aluminum
3. Handwheel	Aluminum ASTM B-85
4. Stem	Bronze ASTM B-584 Alloy 875
5. Packing Nut	Brass ASTM B-16
6. Follower 1/4"-1 1/2"	Brass ASTM B-16
6. Follower 2"-3"	Bronze ASTM B-62
7. Packing	PTFE
8. Bonnet	Bronze ASTM B-61
9. Body Nut	Bronze ASTM B-62
10. Body	Bronze ASTM B-62
11. Wedge	Bronze ASTM B-62

SIZE	U-0252 DIMENSIONS (in.)			
	A	B	C	D
1/4"	1 25/32	4 5/8	4 1/16	1 25/32
3/8"	1 7/8	4 5/8	4 1/16	1 25/32
1/2"	2 5/32	5 3/8	4 3/4	2 1/8
3/4"	2 3/8	6 5/8	5 11/16	2 9/32
1"	2 11/16	7 9/16	6 13/32	2 9/32
1 1/4"	3 1/8	9	7 9/16	3 1/32
1 1/2"	3 1/2	10 3/16	8 7/16	3 1/2
2"	4 5/32	12 3/8	10 1/8	4 1/32
2 1/2"	4 17/32	15	12 7/32	4 3/4
3"	5	17 1/16	13 13/16	4 3/4

SIZE	WEIGHT (lbs.)									
	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
U-0252	0.9	0.9	1.2	2.0	2.9	4.1	5.5	9.2	15.2	21.5

**Fig. 0230 Gate Valve**  
 1/4"-2" 300 PSI SWP 1000 PSI CWP  
 Threaded – Non-Rising Stem – Union Bonnet

Conforms to MSS SP-80



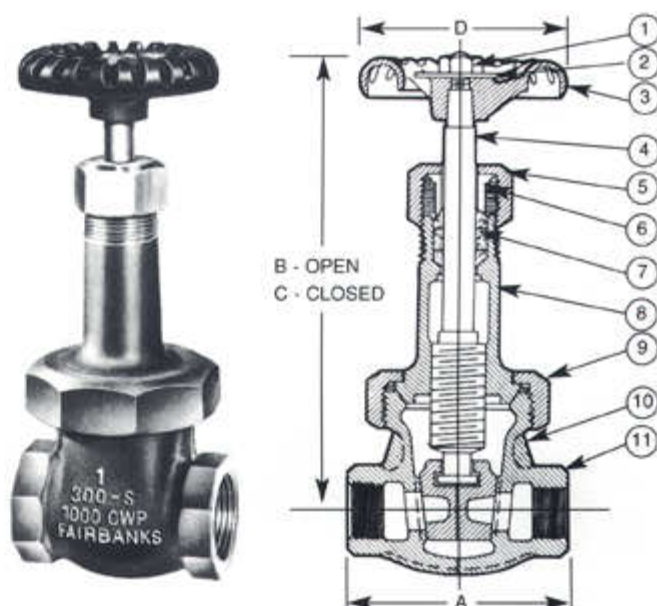
0230 PART		SPECIFICATION
1.	Handwheel Nut	Steel, Zinc Plated
2.	Identification Plate	Aluminum
3.	Handwheel	Aluminum ASTM B-85
4.	Stem	Bronze ASTM B-584 Alloy 875
5.	Packing Nut 1/4-1 1/4"	Brass ASTM B-16
5.	Packing Nut 1 1/2"-2"	Bronze ASTM B-62
6.	Follower	Brass ASTM B-16
7.	Packing	Graphite
8.	Stuffing Box	Brass ASTM B-16
9.	Bonnet	Bronze ASTM B-61
10.	Body Nut	Bronze ASTM B-61
11.	Wedge	Bronze ASTM B-61
12.	Body	Bronze ASTM B-61

SIZE	0230 DIMENSIONS (in.)		
	A	B	D
1/4"	2 1/8	4 1/32	1 3/4
3/8"	2 1/8	4 1/32	1 3/4
1/2"	2 11/32	5	2 5/8
3/4"	2 23/32	5 1/2	2 5/8
1"	3 5/32	6 15/32	3 1/2
1 1/4"	3 11/16	7 1/4	3 1/2
1 1/2"	4 1/8	8	4
2"	5	9 1/32	4 3/4
2 1/2"	4 7/8	10 1/8	4 3/4
3"	5 1/2	11 3/8	5 1/2

SIZE	WEIGHT (lbs.)							
	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
0230	1.1	1.1	2.1	3.1	4.5	6.1	8.7	13.6

**Fig. 0234 Gate Valve**  
 1/4"-2" 300 PSI SWP 1000 PSI CWP  
 Threaded – Rising Stem – Union Bonnet

Conforms to MSS SP-80



0234 PART		SPECIFICATION
1.	Handwheel Nut	Steel, Zinc Plated
2.	Identification Plate	Aluminum
3.	Handwheel	Aluminum ASTM B-85
4.	Stem	Bronze ASTM B-584 Alloy 875
5.	Packing Nut 1/4-1 1/4"	Brass ASTM B-16
5.	Packing Nut 1 1/2"-2"	Bronze ASTM B-62
6.	Follower	Brass ASTM B-16
7.	Packing	Graphite
8.	Bonnet	Bronze ASTM B-61
9.	Body Nut	Bronze ASTM B-61
10.	Body	Bronze ASTM B-61
11.	Wedge	Bronze ASTM B-61

SIZE	0234 DIMENSIONS (in.)			
	A	B	C	D
1/4"	2 1/8	5 3/32	4 1/2	1 3/4
3/8"	2 1/8	5 3/32	4 1/2	1 3/4
1/2"	2 11/32	6 1/2	5 5/8	2 5/8
3/4"	2 23/32	7 1/8	6 1/8	2 5/8
1"	3 5/32	8 17/32	7 5/16	3 1/2
1 1/4"	3 11/16	9 7/8	8 3/8	3 1/2
1 1/2"	4 1/8	11 3/16	9 11/32	4
2"	5	13 5/16	10 31/32	4 3/4
2 1/2"	4 7/8	15 1/32	12 3/16	4 3/4
3"	5 1/2	17	13 13/16	5 1/2

SIZE	WEIGHT (lbs.)							
	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
0234	1.1	1.1	2.1	3.1	4.6	6.6	9.1	14.2

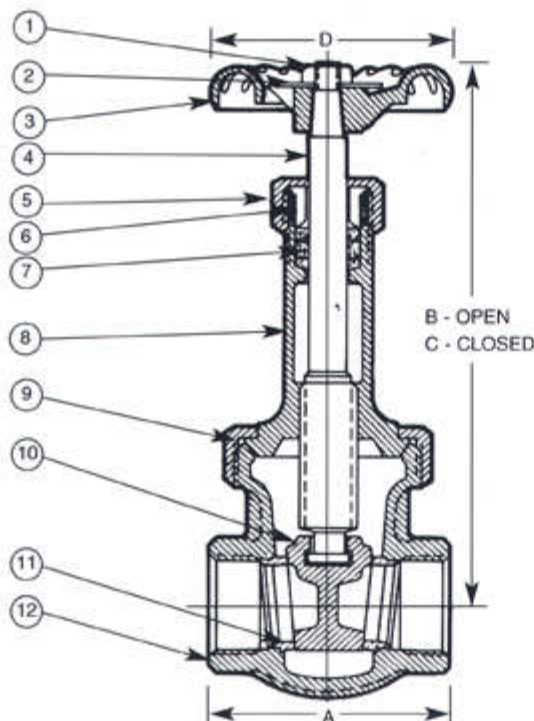
# Bronze Gate Valve

Class 300

# Fairbanks®

**Fig. 0236 Gate Valve**  
 $\frac{1}{2}$ "-2" 300 PSI SWP 1000 PSI CWP  
 Threaded – Rising Stem – Bronze Wedge – Copper Nickel Alloy Seat Rings – Union Bonnet

Conforms to MSS SP-80



## 0236 PART

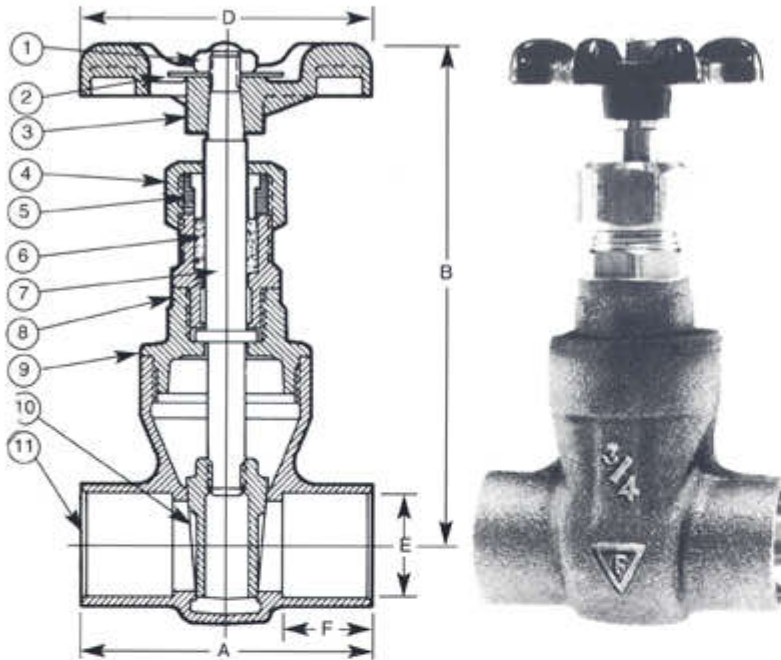
0236 PART	SPECIFICATION
1 Handwheel Nut	Steel, Zinc Plated
2 Identification Plate	Aluminum
3 Handwheel	Aluminum ASTM B-85
4 Stem	Bronze ASTM B-584 Alloy 875
5 Packing Nut	Brass ASTM B-16
6 Follower	Brass ASTM B-16
7 Packing	Graphite
8 Bonnet	Bronze ASTM B-61
9 Body Nut	Bronze ASTM B-61
10 Wedge	Bronze ASTM B-61
11 Seat Ring	Copper Nickel ASTM B-466 Alloy 715
12 Body	Bronze ASTM B-61

SIZE	0236 DIMENSIONS (in.)			
	A	B	C	D
$\frac{1}{2}$ "	$2\frac{11}{32}$	$6\frac{1}{2}$	$5\frac{5}{8}$	$2\frac{1}{4}$
$\frac{3}{4}$ "	$2\frac{23}{32}$	$7\frac{1}{8}$	$6\frac{1}{8}$	$2\frac{5}{8}$
1"	$3\frac{5}{32}$	$8\frac{17}{32}$	$7\frac{5}{16}$	3
$1\frac{1}{4}$ "	$3\frac{11}{16}$	$9\frac{13}{16}$	$8\frac{3}{8}$	$3\frac{1}{2}$
$1\frac{1}{2}$ "	$4\frac{1}{8}$	$11\frac{3}{16}$	$9\frac{11}{32}$	4
2"	5	$13\frac{3}{16}$	$10\frac{31}{32}$	$4\frac{3}{4}$

SIZE	WEIGHT (lbs.)					
	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"
0236	2.3	3.1	4.6	6.5	8.6	14.0

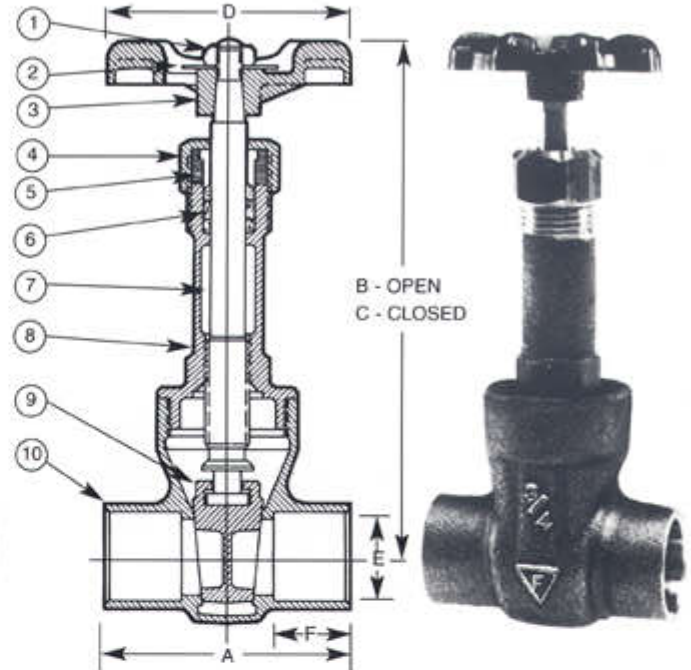
**Fig. 3080 Gate Valve**  
 $\frac{3}{8}$ "-3" 125 PSI SWP 200 PSI CWP  
 Solder End - Non-Rising Stem - Screw-In Bonnet

Conforms to MSS SP-80  
 Federal Specification WW-V-54 Type I, Class A



**Fig. 3082 Gate Valve**  
 $\frac{3}{8}$ "-3" 125 PSI SWP 200 PSI CWP  
 Solder End - Rising Stem - Screw-In Bonnet

Conforms to MSS SP-80  
 Federal Specification WW-V-54 Type II, Class A



#### 3080 PART

3080 PART	SPECIFICATION
1. Wheel Nut	Steel, Zinc Plated
2. Identification Plate	Aluminum
3. Handwheel	Aluminum ASTM B-85
4. Packing Nut $\frac{3}{8}$ "-2"	Brass ASTM B-16
5. Follower	Brass ASTM B-62
6. Packing	PTFE
7. Stuffing Box	Brass ASTM B-16
8. Stem	Brass ASTM B-16
9. Bonnet	Bronze ASTM B-62
10. Wedge	Bronze ASTM B-62
11. Body	Bronze ASTM B-62

#### 3082 PART

3082 PART	SPECIFICATION
1. Wheel Nut	Steel, Zinc Plated
2. Identification Plate	Aluminum
3. Handwheel	Aluminum ASTM B-85
4. Packing Nut $\frac{3}{8}$ "-2"	Brass ASTM B-16
5. Follower	Bronze ASTM B-62
6. Packing	PTFE
7. Stem	Brass ASTM B-16
8. Bonnet	Bronze ASTM B-62
9. Wedge	Bronze ASTM B-62
10. Body	Bronze ASTM B-62

3080 DIMENSIONS (in.)					
SIZE	A	B	D	E	F
$\frac{3}{8}$ "	$\frac{19}{16}$	3	$2\frac{1}{16}$	$\frac{1}{2}$	$\frac{3}{8}$
$\frac{1}{2}$ "	$\frac{125}{32}$	$2\frac{1}{32}$	$2\frac{1}{16}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{4}$ "	$2\frac{3}{8}$	$3\frac{17}{32}$	$2\frac{5}{16}$	$\frac{3}{4}$	$\frac{3}{4}$
1"	$2\frac{3}{4}$	$4\frac{1}{32}$	$2\frac{5}{16}$	$3\frac{1}{32}$	$\frac{15}{16}$
$1\frac{1}{4}$ "	$3\frac{1}{16}$	$4\frac{1}{2}$	$2\frac{23}{32}$	$1\frac{7}{32}$	$3\frac{1}{32}$
$1\frac{1}{2}$ "	$3\frac{3}{8}$	$5\frac{1}{4}$	$2\frac{15}{16}$	$1\frac{15}{32}$	$1\frac{13}{32}$
2"	$4\frac{1}{32}$	$6\frac{13}{32}$	$3\frac{11}{32}$	$1\frac{7}{8}$	$1\frac{11}{32}$
$2\frac{1}{2}$ "	$4\frac{9}{16}$	$7\frac{15}{16}$	$4\frac{1}{32}$	$2\frac{15}{32}$	$1\frac{1}{2}$
3"	$5\frac{1}{8}$	$8\frac{13}{16}$	$4\frac{11}{16}$	$2\frac{15}{16}$	$1\frac{29}{32}$

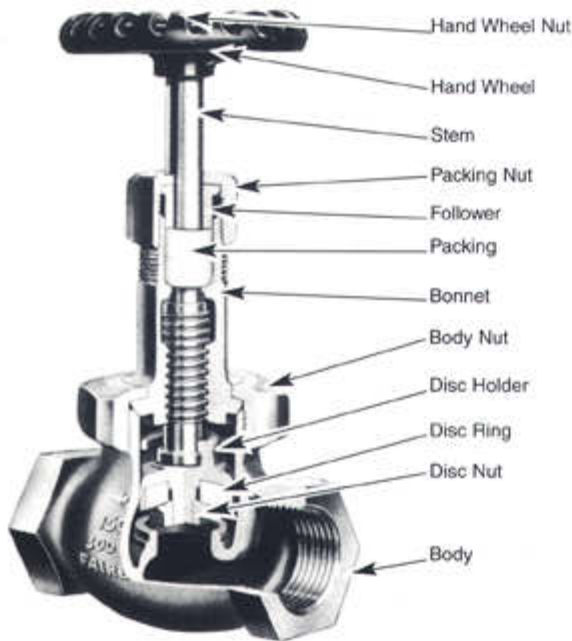
3082 DIMENSIONS (in.)						
SIZE	A	B	C	D	E	F
$\frac{3}{8}$ "	$\frac{19}{16}$	$4\frac{1}{4}$	$3\frac{5}{8}$	$2\frac{1}{8}$	$\frac{1}{2}$	$\frac{3}{8}$
$\frac{1}{2}$ "	$\frac{127}{32}$	$4\frac{5}{32}$	$3\frac{1}{2}$	$2\frac{1}{8}$	$\frac{5}{8}$	$\frac{1}{2}$
$\frac{3}{4}$ "	$2\frac{1}{2}$	$5\frac{1}{4}$	$3\frac{5}{16}$	$2\frac{23}{32}$	$\frac{7}{8}$	$\frac{3}{4}$
1"	$2\frac{29}{32}$	7	$5\frac{7}{8}$	$3\frac{5}{32}$	1	$\frac{29}{32}$
$1\frac{1}{4}$ "	$3\frac{1}{16}$	$8\frac{1}{32}$	$6\frac{5}{8}$	$3\frac{5}{32}$	$1\frac{1}{4}$	$3\frac{1}{32}$
$1\frac{1}{2}$ "	$3\frac{15}{32}$	$9\frac{3}{32}$	$7\frac{1}{16}$	$3\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{13}{32}$
2"	$4\frac{9}{32}$	$11\frac{9}{16}$	$9\frac{3}{8}$	$4\frac{5}{32}$	2	$1\frac{11}{32}$
$2\frac{1}{2}$ "	$4\frac{23}{32}$	$13\frac{1}{2}$	$10\frac{25}{32}$	$4\frac{21}{32}$	$2\frac{1}{2}$	$1\frac{15}{32}$
3"	$5\frac{1}{4}$	$15\frac{19}{32}$	$12\frac{11}{32}$	$5\frac{1}{8}$	3	$1\frac{21}{32}$

WEIGHT (lbs.)									
SIZE	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"	$2\frac{1}{2}$ "	3"
3080	0.5	0.5	0.8	1.4	1.8	2.9	4.0	9.0	13.0

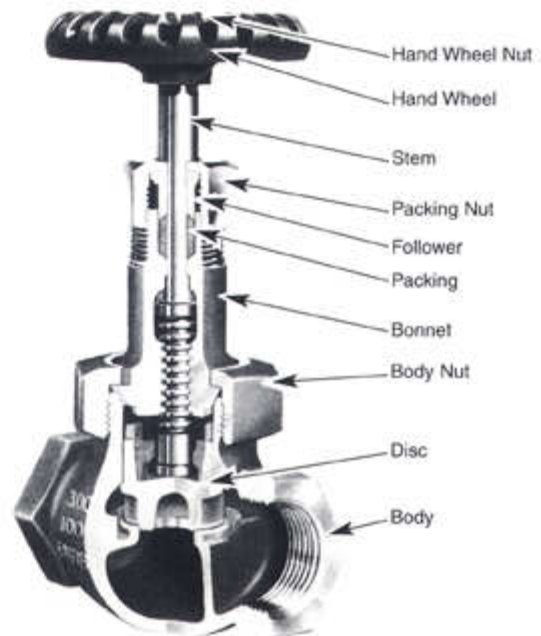
WEIGHT (lbs.)									
SIZE	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"	$2\frac{1}{2}$ "	3"
3082	0.6	0.6	0.9	1.5	2.1	3.1	4.7	10.0	14.0

**NOTE:** Due to the thermal expansion and contraction that can occur when soldering, it is recommended that valve wedges be in the fully open or fully closed position.

### Fairbanks Bronze Globe Valves General Information



Bronze Globe Valve  
Teflon Seat  
Fig. U-01



Bronze Globe Valve  
Regrinding Bronze Seat  
Fig. 0529

**APPLICATION** - Globe valves are generally recommended for use on services handling liquid, vapor or gas in applications where it is necessary to throttle or regulate the flow by positioning the disc in a fully open, intermediate or fully closed position. In addition to throttling, globe valves are recommended in applications when rapid cycle of operation is anticipated.

Due to the design of the globe valve, the fluid path changes direction several times resulting in a relatively large pressure drop compared with a gate or ball valve. Fairbanks globe valves are all full port except those specifically designed for throttling service. The full-port feature reduces pressure drop to a minimum and assures the user maximum value.

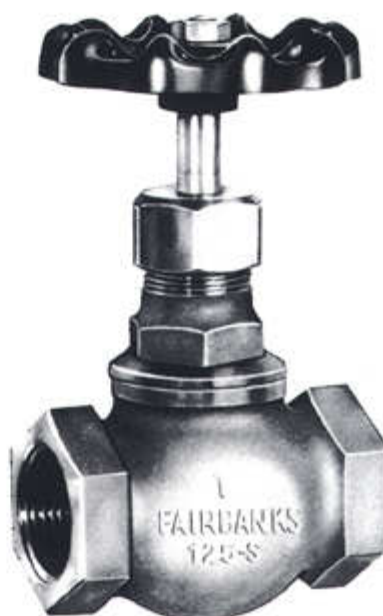
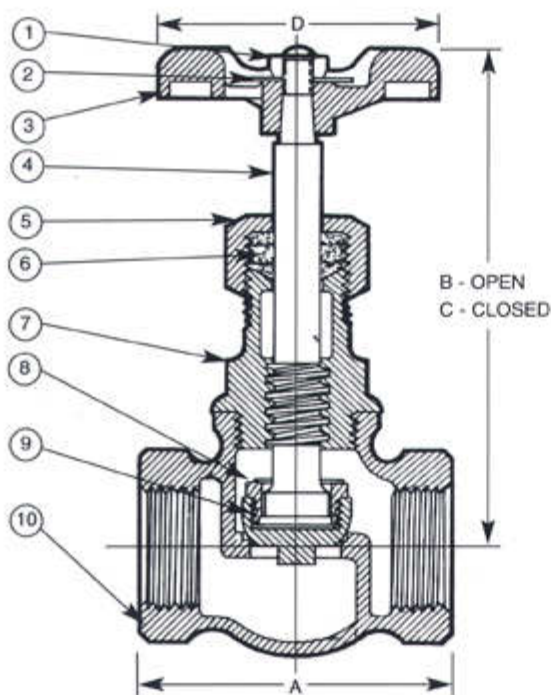
**Regrinding Valves** - All Fairbanks bronze globe valves can be re-ground in order to renew the mating surfaces and improve the tight leakproof closure of the valve.

**Composition Disc Valves** - Composition disc bronze globe valves are used where positive closure and quick renewal of the disc is desired. The composition disc being much softer than the seat material not only protects the seat from wear, but also will form to and around foreign material adhering to the seat that might cause leakage in a metal to metal seating arrangement. Composition discs are available for services from cryogenic -450°F to 400°F.

**Plug Type Globe Valves** - Fairbanks offers valves specially designed for throttling service with hardened seat and disc. These valves may be used for the toughest services - severe throttling, the handling of abrasive materials or anywhere a soft seat globe does not give satisfactory service.

**Fig. 3045 Globe Valve**  
 $\frac{1}{8}$ "-3" 125 PSI SWP 200 PSI CWP  
 Threaded - Screw-In Bonnet - Radial Bronze Disc

Conforms to MSS SP-80  
 Federal Specification WW-V-51 Type I, Class A



### 3045 PART

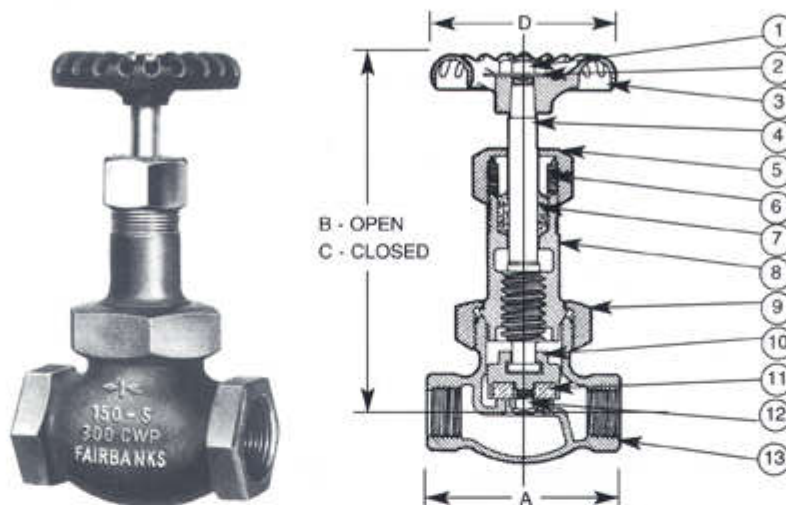
3045 PART	SPECIFICATION
1. Handwheel Nut	Steel, Zinc Plated
2. Identification Plate	Aluminum
3. Handwheel	Aluminum ASTM B-85
4. Stem	Brass ASTM B-16
5. Packing Nut $\frac{1}{8}$ "-2"	Brass ASTM B-16
5. Packing Nut $2\frac{1}{2}$ "-3"	Bronze ASTM B-62
6. Packing	PTFE
7. Bonnet	Bronze ASTM B-62
8. Disc Lock Nut	Brass ASTM B-16
9. Disc $\frac{1}{8}$ "-2"	Brass ASTM B-16
9. Disc $2\frac{1}{2}$ "-3"	Bronze ASTM B-62
10. Body	Bronze ASTM B-62

SIZE	3045 DIMENSIONS (in.)			
	A	B	C	D
$\frac{1}{8}$ "	$1\frac{25}{32}$	$3\frac{1}{8}$	$2\frac{15}{16}$	$2\frac{1}{16}$
$\frac{1}{4}$ "	$1\frac{25}{32}$	$3\frac{1}{8}$	$2\frac{15}{16}$	$2\frac{1}{16}$
$\frac{3}{8}$ "	$1\frac{25}{32}$	$3\frac{1}{8}$	$2\frac{15}{16}$	$2\frac{1}{16}$
$\frac{1}{2}$ "	$1\frac{7}{8}$	$3\frac{1}{8}$	$2\frac{15}{16}$	$2\frac{1}{16}$
$\frac{3}{4}$ "	$2\frac{3}{16}$	$3\frac{1}{2}$	$3\frac{9}{32}$	$2\frac{5}{16}$
1"	$2\frac{9}{16}$	$4\frac{1}{8}$	$3\frac{11}{16}$	$2\frac{23}{32}$
$1\frac{1}{4}$ "	$2\frac{29}{32}$	$4\frac{7}{8}$	$4\frac{7}{16}$	$2\frac{23}{32}$
$1\frac{1}{2}$ "	$3\frac{5}{16}$	$5\frac{9}{32}$	$4\frac{29}{32}$	$2\frac{15}{16}$
2"	$3\frac{15}{16}$	$5\frac{15}{16}$	$5\frac{3}{8}$	$3\frac{11}{32}$
$2\frac{1}{2}$ "	$4\frac{21}{32}$	$7\frac{1}{8}$	$6\frac{5}{16}$	$4\frac{1}{32}$
3"	$5\frac{11}{32}$	$7\frac{15}{16}$	$7\frac{9}{8}$	$4\frac{11}{16}$

SIZE	WEIGHT (lbs.)									
	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"	3"
3045	0.4	0.5	0.6	0.6	1.4	2.4	3.3	4.8	7.6	16.1

**Fig. U-01 Globe Valve**  
 $\frac{1}{4}$ "-3" 150 PSI SWP 300 PSI CWP  
 Threaded – Renewable Teflon Disc – Union Bonnet

Conforms to MSS SP-80  
 Federal Specification WW-V-51 Type I, Class B



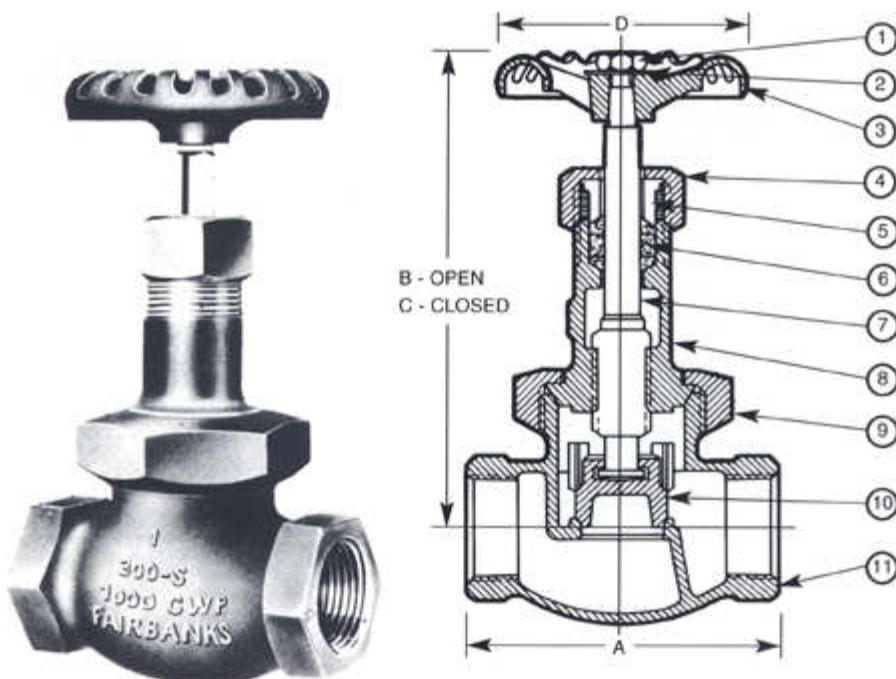
PART	SPECIFICATION
1. Handwheel Nut	Steel, Zinc Plated
2. Identification Plate	Aluminum
3. Handwheel	Aluminum ASTM B-85
4. Stem	Bronze ASTM B-584 Alloy 875
5. Packing Nut $\frac{1}{4}$ "- $\frac{1}{4}$ "	Brass ASTM B-16
5. Packing Nut $\frac{1}{2}$ "-3"	Bronze ASTM B-62
6. Follower	Brass ASTM B-16
7. Packing	Graphite
8. Bonnet	Bronze ASTM B-62
9. Body Nut	Bronze ASTM B-62
10. Disc Holder $\frac{1}{4}$ "- $\frac{1}{2}$ "	Brass ASTM B-16
10. Disc Holder $\frac{3}{4}$ "-3"	Bronze ASTM B-62
11. Disc Ring	Teflon
12. Disc Nut $\frac{1}{4}$ "- $\frac{1}{2}$ "	Brass ASTM B-16
12. Disc Nut 2"-3"	Bronze ASTM B-62
13. Body	Bronze ASTM B-62

SIZE	U-01 DIMENSIONS (in.)			
	A	B	C	D
$\frac{1}{4}$ "	$2\frac{1}{8}$	$4\frac{1}{8}$	$3\frac{15}{16}$	$1\frac{3}{4}$
$\frac{3}{8}$ "	$2\frac{3}{8}$	$4\frac{23}{32}$	$4\frac{7}{16}$	$2\frac{1}{8}$
$\frac{1}{2}$ "	$2\frac{5}{8}$	$5\frac{7}{32}$	$4\frac{29}{32}$	$2\frac{1}{2}$
$\frac{3}{4}$ "	$3\frac{3}{16}$	$5\frac{21}{32}$	$5\frac{9}{32}$	$2\frac{5}{8}$
1"	$3\frac{25}{32}$	$6\frac{5}{16}$	$5\frac{7}{8}$	3
$1\frac{1}{4}$ "	$4\frac{1}{4}$	$7\frac{1}{8}$	$6\frac{9}{16}$	$3\frac{1}{2}$
$1\frac{1}{2}$ "	$4\frac{3}{4}$	8	$7\frac{11}{32}$	4
2"	$5\frac{11}{16}$	$9\frac{3}{32}$	$8\frac{7}{32}$	$4\frac{3}{4}$
$2\frac{1}{2}$ "	$6\frac{5}{8}$	$10\frac{7}{32}$	$9\frac{1}{2}$	$5\frac{3}{4}$
3"	8	11	$10\frac{1}{16}$	$6\frac{5}{8}$

WEIGHT (lbs.)										
SIZE	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"	$2\frac{1}{2}$ "	3"
U-01	0.8	1.3	1.6	2.8	3.7	5.8	7.6	12.4	19.3	27.3

**Fig. 0529 Globe Valve**  
 $\frac{1}{4}$ "-2" 300 PSI SWP 1000 PSI CWP  
 Threaded – Regrinding Bronze Disc – Integral Seat – Union Bonnet

Conforms to MSS SP-80



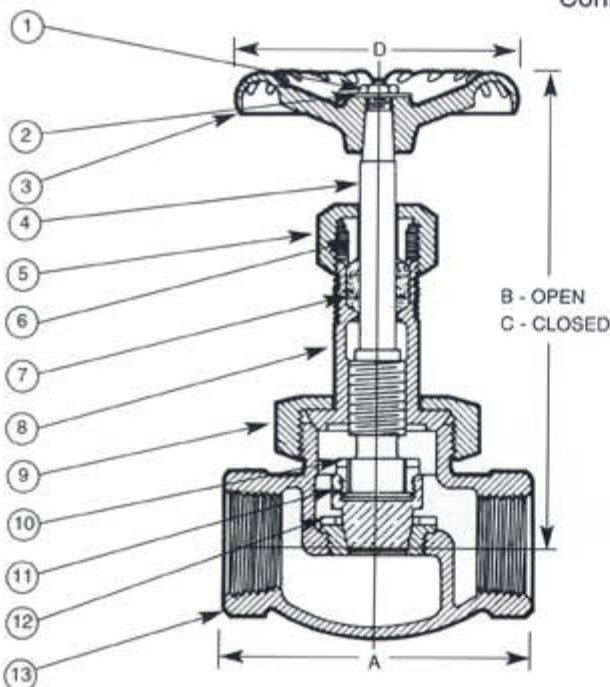
PART	SPECIFICATION
1. Handwheel Nut	Steel, Zinc Plated
2. Identification Plate	Aluminum
3. Handwheel	Aluminum ASTM B-85
4. Packing Nut $\frac{1}{4}$ "- $\frac{1}{4}$ "	Brass ASTM B-16
5. Packing Nut $\frac{1}{2}$ "-2"	Bronze ASTM B-62
6. Follower	Brass ASTM B-16
7. Packing	Graphite
8. Stem	Bronze ASTM B-584 Alloy 875
9. Bonnet	Bronze ASTM B-61
10. Body Nut	Bronze ASTM B-61
10. Disc $\frac{1}{4}$ "- $\frac{1}{2}$ "	Brass ASTM B-16
10. Disc $\frac{3}{4}$ "-2"	Bronze ASTM B-61
11. Body	Bronze ASTM B-61

SIZE	0529 DIMENSIONS (in.)			
	A	B	C	D
$\frac{1}{4}$ "	$2\frac{5}{32}$	$4\frac{1}{8}$	$3\frac{15}{16}$	$1\frac{3}{4}$
$\frac{3}{8}$ "	$2\frac{3}{8}$	$4\frac{3}{4}$	$4\frac{15}{32}$	$2\frac{1}{8}$
$\frac{1}{2}$ "	$2\frac{5}{8}$	$5\frac{7}{32}$	$4\frac{29}{32}$	$2\frac{1}{2}$
$\frac{3}{4}$ "	$3\frac{3}{16}$	$5\frac{11}{16}$	$5\frac{9}{32}$	$2\frac{5}{8}$
1"	$3\frac{25}{32}$	$6\frac{9}{32}$	$5\frac{7}{8}$	3
$1\frac{1}{4}$ "	$4\frac{1}{4}$	$7\frac{1}{8}$	$6\frac{9}{16}$	$3\frac{1}{2}$
$1\frac{1}{2}$ "	$4\frac{3}{4}$	$7\frac{31}{32}$	$7\frac{9}{16}$	4
2"	$5\frac{11}{16}$	9	$8\frac{1}{8}$	$4\frac{3}{4}$
$2\frac{1}{2}$ "	$6\frac{3}{8}$	$10\frac{7}{32}$	$9\frac{1}{2}$	$5\frac{3}{4}$
3"	8	11	$10\frac{1}{16}$	$6\frac{5}{8}$

WEIGHT (lbs.)								
SIZE	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"
0529	0.9	1.3	1.7	2.5	3.8	5.3	7.3	12.8

**Fig. 0505 Globe Valve**  
 $\frac{1}{4}$ "-2" 300 PSI SWP 1000 PSI CWP  
 Threaded - 500 Brinell Stainless Steel Plug Type Disc and Seat -  
 Regrinding and Renewable Disc and Seat Ring - Union Bonnet

Conforms to MSS SP-80

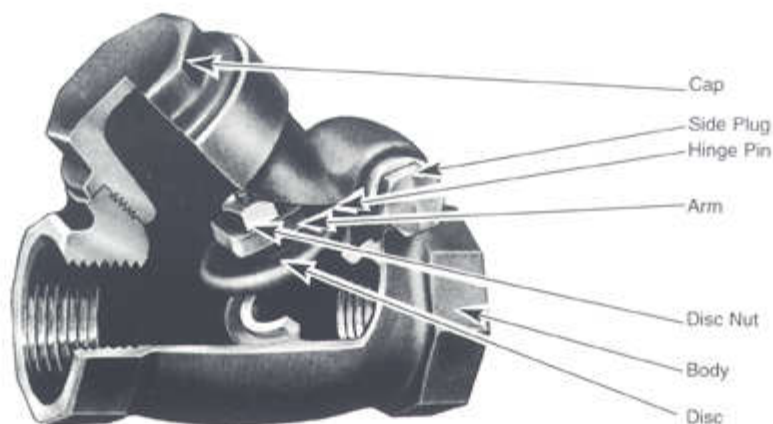


PART	SPECIFICATION
1. Handwheel Nut	Steel, Zinc Plated
2. Identification Plate	Aluminum
3. Handwheel	Aluminum ASTM B-85
4. Stem	Bronze ASTM B-584 Alloy 875
5. Packing Nut $\frac{1}{4}$ "- $1\frac{1}{4}$ "	Brass ASTM B-16
5. Packing Nut $1\frac{1}{2}$ "-2"	Bronze ASTM B-62
6. Follower	Brass ASTM B-16
7. Packing	Graphite
8. Bonnet	Bronze ASTM B-61
9. Body Nut	Bronze ASTM B-61
10. Disc Nut	Bronze ASTM B-62
11. Disc	Stainless Steel ASTM A276 Type 416
12. Seat Ring	Stainless Steel ASTM A276 Type 416
13. Body	Bronze ASTM B-61

SIZE	0505 DIMENSIONS (in.)			
	A	B	C	D
$\frac{1}{4}$ "	$2\frac{5}{32}$	$4\frac{1}{8}$	$3\frac{15}{16}$	$1\frac{3}{4}$
$\frac{3}{8}$ "	$2\frac{3}{8}$	$4\frac{3}{4}$	$4\frac{15}{32}$	$2\frac{1}{8}$
$\frac{1}{2}$ "	$2\frac{5}{8}$	$5\frac{7}{32}$	$4\frac{29}{32}$	$2\frac{1}{2}$
$\frac{3}{4}$ "	$3\frac{3}{16}$	$5\frac{11}{16}$	$5\frac{9}{32}$	$2\frac{5}{8}$
1"	$3\frac{25}{32}$	$6\frac{9}{32}$	$5\frac{7}{8}$	3
$1\frac{1}{4}$ "	$4\frac{1}{4}$	$7\frac{1}{8}$	$6\frac{9}{16}$	$3\frac{1}{2}$
$1\frac{1}{2}$ "	$4\frac{3}{4}$	$7\frac{31}{32}$	$7\frac{5}{16}$	4
2"	$5\frac{11}{16}$	9	$8\frac{1}{8}$	$4\frac{3}{4}$

WEIGHT (lbs.)								
SIZE	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"
0505	1.2	1.2	2.0	2.7	3.8	5.5	7.3	12.3

### Fairbanks Bronze Check Valves General Information



Bronze Swing Check Valve  
Bronze Seat and Disc  
Fig. 0640

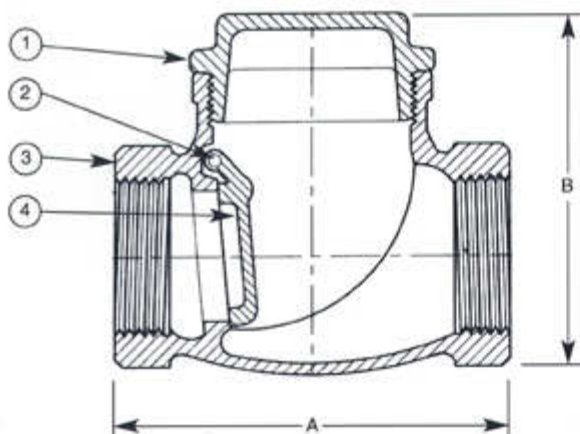
**APPLICATION** - Check valves are designed to prevent reversal of flow in piping systems. They are kept open by line pressure and close automatically in response to reversal of pressure or by the weight of the disc assembly. Fairbanks offers bronze swing check valves.

Swing check valves are recommended when full unobstructed flow is required. Swing check valves are not recommended for use on pulsating lines due to accelerated wear from the disc chattering on the seat. Swing check valves are recommended for horizontal lines, but may be used on vertical lines.

Proper sizing of swing check valves is important for maximum service life as is locating the valve away from a pulsating pump. Please feel free to consult Fairbanks for sizing assistance.

## Class 125

**Fig. 3650 Swing Check Valve**  
 1/4"-2" 125 PSI SWP 200 PSI CWP  
 Threaded – Screw-In Cap



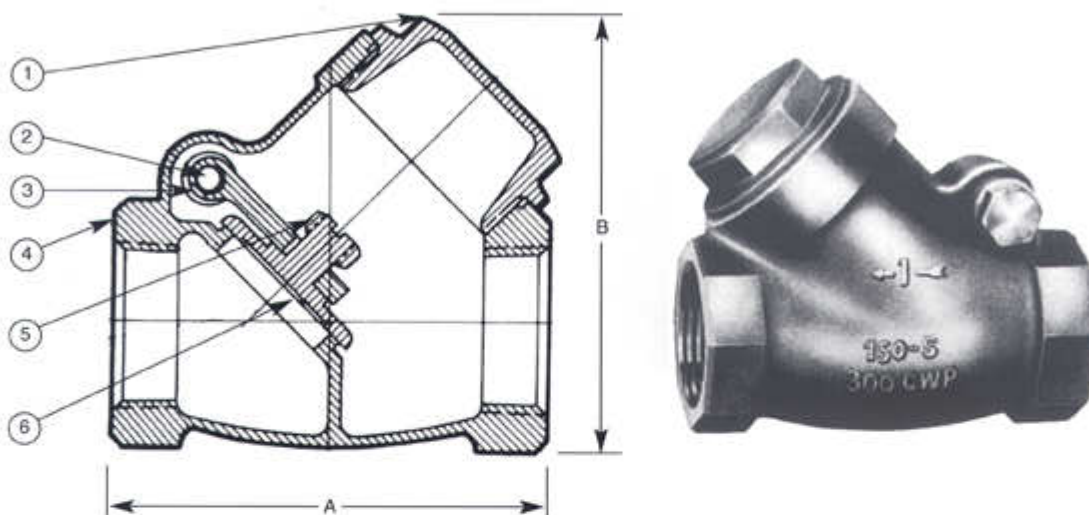
3650 PART		SPECIFICATION
1. Cap	.....	Bronze ASTM B-62
2. Hinge Pin	.....	Brass ASTM B-16
3. Body	.....	Bronze ASTM B-62
4. Disc	.....	Bronze ASTM B-62

SIZE	3650 DIMENSIONS (in.)	
	A	B
1/4"	2 <sup>5</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>2</sub>
3/8"	2 <sup>5</sup> / <sub>32</sub>	1 <sup>9</sup> / <sub>16</sub>
1/2"	2 <sup>1</sup> / <sub>8</sub>	1 <sup>13</sup> / <sub>32</sub>
3/4"	2 <sup>13</sup> / <sub>32</sub>	1 <sup>11</sup> / <sub>16</sub>
1"	2 <sup>3</sup> / <sub>4</sub>	1 <sup>15</sup> / <sub>16</sub>
1 1/4"	3 <sup>3</sup> / <sub>16</sub>	2 <sup>5</sup> / <sub>32</sub>
1 1/2"	3 <sup>10</sup> / <sub>32</sub>	2 <sup>7</sup> / <sub>16</sub>
2"	4 <sup>0</sup> / <sub>32</sub>	2 <sup>3</sup> / <sub>4</sub>

WEIGHT (lbs.)								
SIZE	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
3650	0.8	0.8	0.8	0.11	1.0	1.07	1.14	2.15

**Fig. 0640 Swing Check Valve**  
 $\frac{1}{4}$ "–2" 150 PSI SWP 300 PSI CWP  
 Threaded – Regrinding Disc

Conforms to MSS SP-80  
 Federal Specification WW-V-51 Type IV, Class B

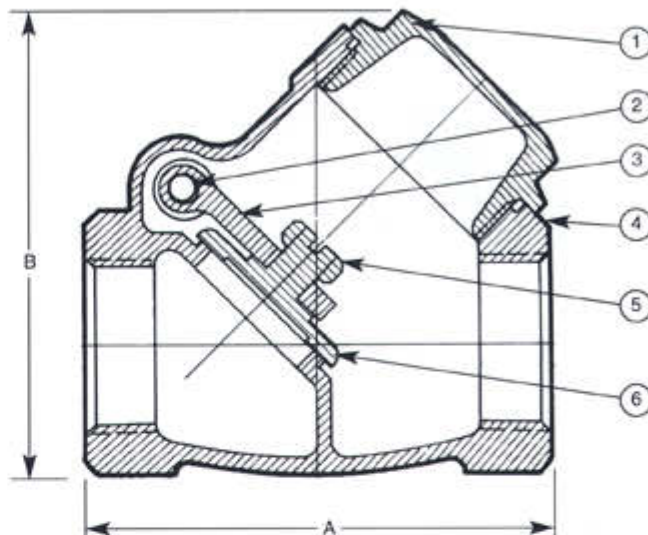


0640 PART		SPECIFICATION
1. Cap	.....	Bronze ASTM B-62
2. Hinge Pin	.....	Brass ASTM B-16
3. Clapper Arm	.....	Bronze ASTM B-62
4. Body	.....	Bronze ASTM B-62
5. Disc Nut	.....	Brass ASTM B-16
6. Disc	.....	Bronze ASTM B-62
7. Side Plug (Not Shown)	.....	Brass ASTM B-16

SIZE	0640 DIMENSIONS (in.)	
	A	B
$\frac{1}{4}$ "	$2\frac{5}{32}$	$1\frac{7}{16}$
$\frac{3}{8}$ "	$2\frac{5}{32}$	$1\frac{7}{16}$
$\frac{1}{2}$ "	$2\frac{1}{2}$	$1\frac{3}{4}$
$\frac{3}{4}$ "	$2\frac{7}{8}$	$2\frac{1}{16}$
1"	$3\frac{1}{2}$	$2\frac{1}{2}$
$1\frac{1}{4}$ "	$4\frac{13}{32}$	$3\frac{3}{32}$
$1\frac{1}{2}$ "	$4\frac{5}{8}$	$3\frac{7}{16}$
2"	$5\frac{9}{16}$	$4\frac{1}{8}$

WEIGHT (lbs.)								
SIZE	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"
0640	0.4	0.4	0.8	1.1	1.5	3.0	3.9	6.9

**Fig. 0642 Swing Check Valve**  
 $\frac{1}{4}$ "–2" 300 PSI SWP 1000 PSI CWP  
 Threaded – Regrinding Bronze Disc

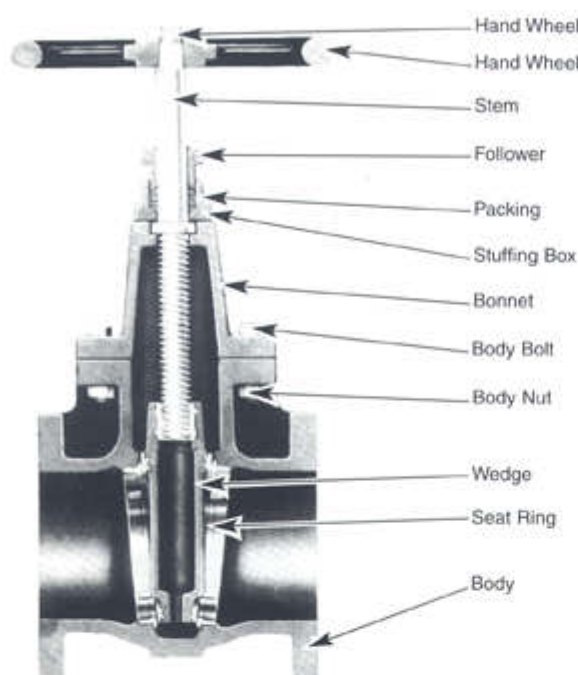


0642 PART	SPECIFICATION
1. Cap .....	Bronze ASTM B-61
2. Hinge Pin .....	Brass ASTM B-16
3. Clapper Arm .....	Bronze ASTM B-62
4. Body .....	Bronze ASTM B-61
5. Disc Nut .....	Brass ASTM B-16
6. Disc .....	Bronze ASTM B-61
7. Side Plug (Not Shown) .....	Brass ASTM B-16

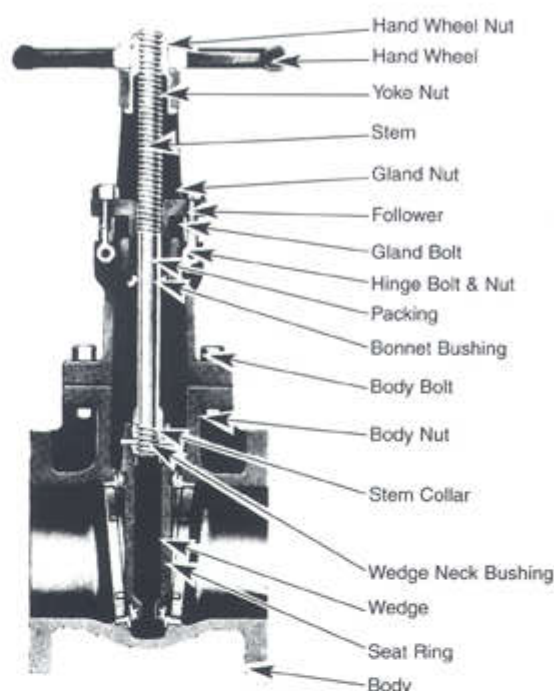
SIZE	0642 DIMENSIONS (in.)	
	A	B
$\frac{1}{4}$ "	$2\frac{5}{32}$	$1\frac{7}{16}$
$\frac{3}{8}$ "	$2\frac{5}{32}$	$1\frac{7}{16}$
$\frac{1}{2}$ "	$2\frac{1}{2}$	$1\frac{3}{4}$
$\frac{3}{4}$ "	$2\frac{7}{8}$	$2\frac{1}{16}$
1"	$3\frac{1}{2}$	$2\frac{1}{2}$
$1\frac{1}{4}$ "	$4\frac{13}{32}$	$3\frac{3}{32}$
$1\frac{1}{2}$ "	$4\frac{5}{8}$	$3\frac{7}{16}$
2"	$5\frac{9}{16}$	$4\frac{1}{8}$

WEIGHT (lbs.)								
SIZE	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"
0642	0.4	0.4	0.8	1.1	1.7	3.4	4.1	7.5

### Fairbanks Iron Body Gate Valves General Information



Non-Rising Stem Gate Valve  
Solid Wedge  
Fig. 0403



Outside Screw and Yoke Gate Valve  
Solid Wedge  
Fig. 0405

**APPLICATION** - Gate valves are designed for use in the fully open or fully closed position and are not recommended for throttling. Because of its low resistance to flow when fully open the gate valve is particularly desirable and generally recommended for use in applications where a minimum pressure drop is required. Where throttling is a requirement, Fairbanks recommends the use of a globe valve.

All Fairbanks gate valves are designed with the wedge positively guided in the body by a slot on one part and a rib on the mating part. This positive guiding action allows the valve to be installed in any position on the line, but whenever possible any valve should be installed in the vertical upright position. Fairbanks valves are designed so that the wedge completely clears the waterway when fully open.

Gate valves are not recommended for use on lines containing abrasive materials due to the sliding action of the wedge against the body seat as the valve is opened and closed. Also, gate valves should be opened and closed slowly to prevent setting up shock loads which could damage the valve and piping system. An added advantage to closing a gate valve slowly is the washing action which occurs due to the high velocity flow just prior to closure.

By-passes are recommended on 6 inch and larger size valves, or even smaller size valves operating under high pressure or temperatures, so that pressures and/or temperatures can be at least partially equalized before the main valve is opened.

Rising stem outside screw and yoke iron body gate valves are used on lines where corrosives, high temperatures, and solids in the line may be damaging to stem threads. The outside thread design allows easy lubrication of the stem, and indicates the position of the wedge.

Nonrising stems inside screw gate valves are used on lines where headroom is limited for operation, and the stem does not rise vertically which helps to reduce packing wear.

U-Bolt gate valves are designed for quick and easy cleaning or repair. These valves are extensively used in the oil and chemical industries.

Fairbanks offers a line of all-iron gate valves for use in services where the medium being handled might attack bronze.

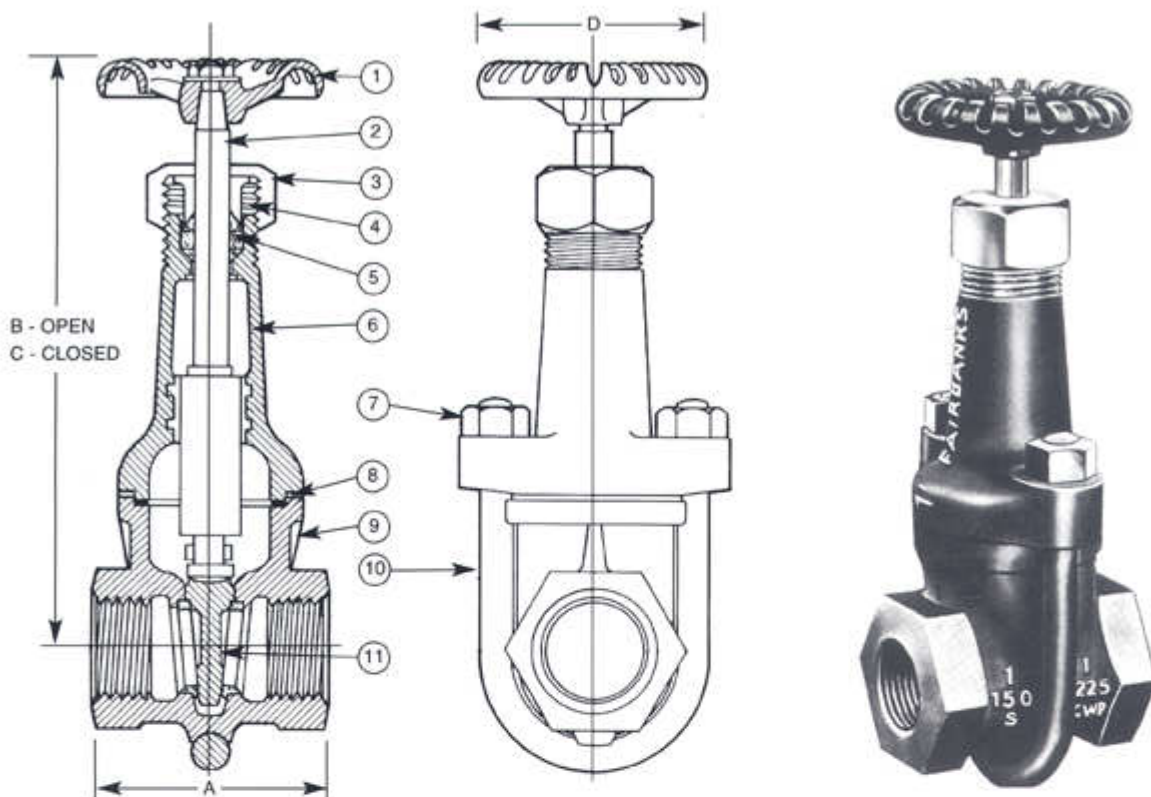
Fairbanks also offers 3% nickel cast iron valves with 316 stainless steel trim for more corrosive services.

# Iron Body U-Bolt Gate Valve

# Fairbanks®

Class 150

**Fig. 0418 U-Bolt Gate Valve**  
 $\frac{1}{4}$ "-2" 150 PSI SWP 225 PSI CWP  
 Threaded - All Iron - Rising Stem - Taper Seat



## 0418 PART

0418 PART	SPECIFICATION
1. Handwheel	Malleable Iron ASTM A-47 GR 35018
2. Stem	Steel ASTM A-108 GR1215
3. Packing Nut	Cast Iron A-126 CL B
4. Follower	Steel ASTM A-108 GR1215
5. Packing	Non Asbestos
6. Bonnet	Cast Iron ASTM A-126 CL B
7. U-Bolt Nut	Steel ASTM A-307 GR B
8. Body/Bonnet Gasket	Non Asbestos
9. Body	Cast Iron ASTM A-126 CL B
10. U-Bolt	Steel ASTM A-307 GR B
11. Wedge	Forged Steel ASTM A-105

SIZE	0418 DIMENSIONS (in.)			
	A	B	C	D
$\frac{1}{2}$ "	2 $\frac{1}{4}$	6 $\frac{13}{32}$	5 $\frac{11}{16}$	2 $\frac{1}{8}$
$\frac{3}{4}$ "	2 $\frac{3}{4}$	7 $\frac{13}{16}$	6 $\frac{27}{32}$	2 $\frac{5}{8}$
1"	3	9	7 $\frac{3}{4}$	2 $\frac{7}{8}$
1 $\frac{1}{4}$ "	3 $\frac{1}{2}$	10 $\frac{13}{32}$	8 $\frac{13}{16}$	3 $\frac{1}{2}$
1 $\frac{1}{2}$ "	4	11 $\frac{31}{32}$	10 $\frac{1}{8}$	4
2"	4 $\frac{3}{4}$	14 $\frac{23}{32}$	12 $\frac{5}{16}$	4 $\frac{3}{4}$

WEIGHT (lbs.)						
SIZE	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	2"
0418	2.6	3.9	5.0	7.4	11.4	17.0

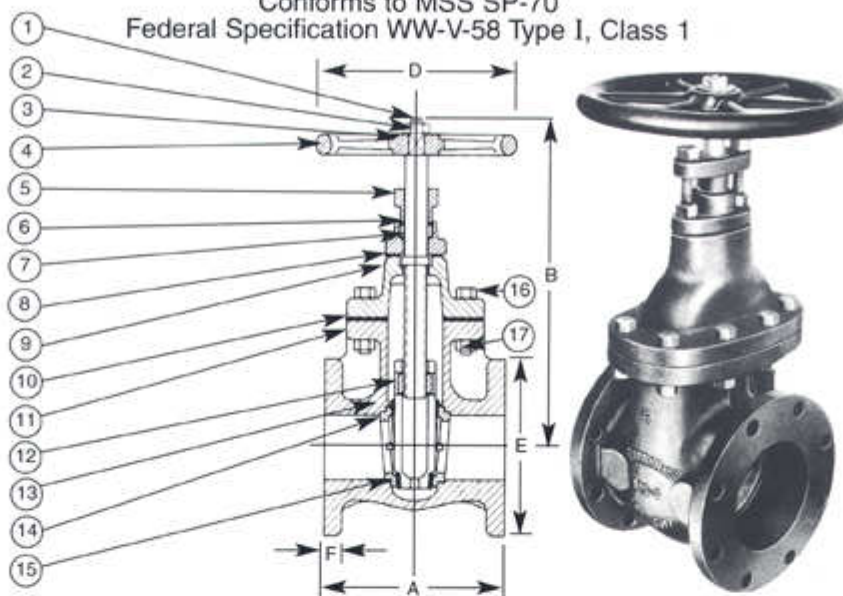
The U-Bolt design of these gate valves allows for installation in tight areas as well as quick disassembly of the valve for cleaning or replacement of parts.

**Fig. 0403 Gate Valve**

2"-12" Flanged 125 PSI SWP 200 PSI CWP  
14"-16" Flanged 100 PSI SWP 150 PSI CWP  
18"-24" Flanged 150 PSI CWP

**Bronze Mounted – Non-Rising Stem – Taper Seat**

Conforms to MSS SP-70  
Federal Specification WW-V-58 Type I, Class 1



#### 0403 PART

#### SPECIFICATION

1. Stem	Brass ASTM B-16
2. Handwheel Nut	Steel ASTM A-307 GR B
3. Handwheel Washer	Steel
4. Handwheel	Cast Iron ASTM A-126 CL B
5. Follower	Cast Iron ASTM A-126 CL B
6. Stuffing Box	Cast Iron ASTM A-126 CL B
7. Packing	Non Asbestos
8. Bonnet Gasket	Non Asbestos
9. Bonnet	Cast Iron ASTM A-126 CL B
10. Body/Bonnet Gasket	Non Asbestos
11. Body	Cast Iron ASTM A-126 CL B
12. Wedge Nut	Bronze ASTM B-62
13. Wedge	Cast Iron ASTM A-126 CL B
14. Seat Ring	Bronze ASTM B-62
15. Disc Face	Bronze ASTM B-62
16. Body Bolt	Steel ASTM A-307 GR B
17. Body Nut	Steel ASTM A-307 GR B
18. Follower Stud (Not Shown)	Steel ASTM A-307 GR B
19. Follower Stud Nut (Not Shown)	Steel ASTM A-307 GR B

0403 DIMENSIONS (in.)					
SIZE	A	B	D	E	F
2"	7	11 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	6	5 <sup>5</sup> / <sub>8</sub>
2 <sup>1</sup> / <sub>2</sub> "	7 <sup>1</sup> / <sub>2</sub>	12 <sup>3</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>2</sub>	7	11 <sup>1</sup> / <sub>16</sub>
3"	8	13 <sup>7</sup> / <sub>8</sub>	9	7 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>
4"	9	16 <sup>17</sup> / <sub>32</sub>	10	9	15 <sup>9</sup> / <sub>16</sub>
6"	10 <sup>1</sup> / <sub>2</sub>	20 <sup>7</sup> / <sub>16</sub>	12	11	1
8"	11 <sup>1</sup> / <sub>2</sub>	24 <sup>11</sup> / <sub>16</sub>	14	13 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>
10"	13	29 <sup>5</sup> / <sub>32</sub>	16	16	13 <sup>9</sup> / <sub>16</sub>
12"	14	32 <sup>7</sup> / <sub>8</sub>	18	19	1 <sup>1</sup> / <sub>4</sub>
14"	15	39 <sup>1</sup> / <sub>2</sub>	20	21	13 <sup>3</sup> / <sub>8</sub>
16"	16	44 <sup>1</sup> / <sub>4</sub>	22	23 <sup>1</sup> / <sub>2</sub>	17 <sup>1</sup> / <sub>16</sub>
18"	17	48 <sup>11</sup> / <sub>16</sub>	24	25	19 <sup>9</sup> / <sub>16</sub>
20"	18	51 <sup>7</sup> / <sub>8</sub>	24	27 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>16</sub>
24"	20	60 <sup>3</sup> / <sub>8</sub>	30	32	17 <sup>7</sup> / <sub>8</sub>

WEIGHT (lbs.)													
SIZE	2"	2 <sup>1</sup> / <sub>2</sub> "	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
0403	36	50	67	98	170	251	387	600	898	1150	1400	1470	2520

All face to face dimensions conform to ANSI B16.10. Flanges of these valves conform to ANSI B16.1. It is recommended that valves 6" and larger be equipped with a by-pass. The size of the by-pass will be based on steam ratings in accordance with MSS Standard SP-45 unless otherwise ordered.

# Iron Body Gate Valve

# Fairbanks®

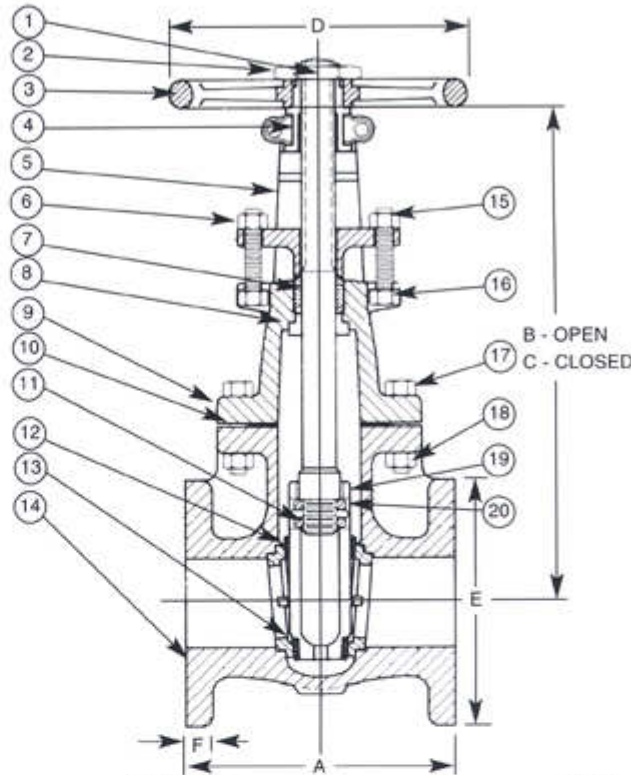
Class 125

Fig. 0405 Gate Valve

2"-12" Flanged 125 PSI SWP 200 PSI CWP  
14"-16" Flanged 100 PSI SWP 150 PSI CWP  
18"-24" Flanged 150 PSI SWP 150 PSI CWP

**Bronze Mounted - Outside Screw & Yoke - Taper Seat**

Conforms to MSS SP-70  
Federal Specification WW-V-58 Type I, Class 1



## 0405 PART

## SPECIFICATION

1. Stem	Brass ASTM B-16
2. Yoke Lock Nut	Brass ASTM B-16
3. Handwheel	Cast Iron ASTM A-126 CL B
4. Yoke Nut	Bronze ASTM B-62
5. Yoke	Cast Iron ASTM A-126 CL B
6. Follower	Cast Iron ASTM A-126 CL B
7. Packing	Non Asbestos
8. Bonnet Bushing	Brass ASTM B-16
9. Bonnet	Cast Iron ASTM A-126 CL B
10. Body/Bonnet Gasket	Non Asbestos

11. Wedge	Cast Iron ASTM A-126 CL B
12. Seat Ring	Bronze ASTM B-62
13. Disc Face	Bronze ASTM B-62
14. Body	Cast Iron ASTM A-126 CL B
15. Gland Nut	Steel ASTM A-307 GR B
16. Gland Bolt	Steel ASTM A-307 GR B
17. Body Bolt	Steel ASTM A-307 GR B
18. Body Nut	Steel ASTM A-307 GR B
19. Wedge Nut	Bronze ASTM B-584 Alloy 967
20. Pin	Brass ASTM B-16

SIZE	0405 DIMENSIONS (in.)					
	A	B	C	D	E	F
2"	7	14 <sup>1</sup> / <sub>2</sub>	12 <sup>9</sup> / <sub>16</sub>	7 <sup>15</sup> / <sub>32</sub>	6	5 <sup>5</sup> / <sub>8</sub>
2 <sup>1</sup> / <sub>2</sub> "	7 <sup>1</sup> / <sub>2</sub>	16 <sup>13</sup> / <sub>32</sub>	13 <sup>5</sup> / <sub>8</sub>	7 <sup>15</sup> / <sub>32</sub>	7	1 <sup>1</sup> / <sub>16</sub>
3"	8	18 <sup>13</sup> / <sub>16</sub>	15 <sup>5</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>
4"	9	22 <sup>23</sup> / <sub>32</sub>	18 <sup>5</sup> / <sub>8</sub>	9 <sup>13</sup> / <sub>16</sub>	9	1 <sup>5</sup> / <sub>16</sub>
6"	10 <sup>1</sup> / <sub>2</sub>	31 <sup>5</sup> / <sub>16</sub>	24 <sup>3</sup> / <sub>4</sub>	12	11	1
8"	11 <sup>1</sup> / <sub>2</sub>	39 <sup>3</sup> / <sub>32</sub>	30 <sup>5</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>32</sub>	13 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>
10"	13	47 <sup>13</sup> / <sub>32</sub>	37 <sup>3</sup> / <sub>8</sub>	15 <sup>31</sup> / <sub>32</sub>	16	1 <sup>3</sup> / <sub>16</sub>
12"	14	55 <sup>9</sup> / <sub>16</sub>	42 <sup>7</sup> / <sub>8</sub>	18	19	1 <sup>1</sup> / <sub>4</sub>
14"	15	64 <sup>9</sup> / <sub>4</sub>	50	20	21	1 <sup>3</sup> / <sub>8</sub>
16"	16	73 <sup>1</sup> / <sub>2</sub>	56 <sup>1</sup> / <sub>2</sub>	22	23 <sup>1</sup> / <sub>2</sub>	1 <sup>7</sup> / <sub>16</sub>
18"	17	81 <sup>1</sup> / <sub>4</sub>	62 <sup>7</sup> / <sub>16</sub>	24	25	1 <sup>9</sup> / <sub>16</sub>
20"	18	89 <sup>1</sup> / <sub>2</sub>	68 <sup>7</sup> / <sub>8</sub>	24	27 <sup>1</sup> / <sub>2</sub>	1 <sup>11</sup> / <sub>16</sub>
24"	20	105	80	30	32	1 <sup>7</sup> / <sub>8</sub>

WEIGHT (lbs.)														
SIZE	2"	2 <sup>1</sup> / <sub>2</sub> "	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
0405	41	57	74	110	140	187	291	445	656	938	1300	1604	2008	2979

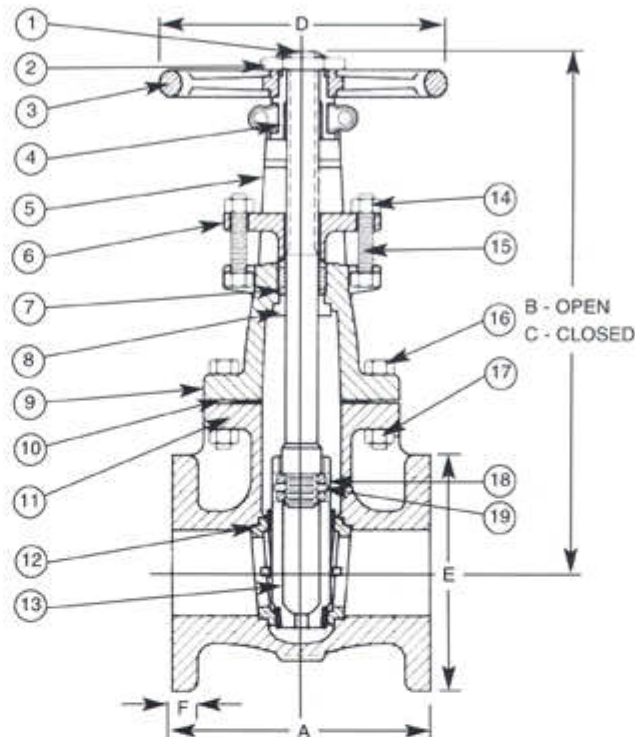
All face to face dimensions conform to ANSI B16.10. Flanges of these valves conform to ANSI B16.1. It is recommended that valves 6" and larger be equipped with a by-pass. The size of the by-pass will be based on steam ratings in accordance with MSS Standard SP-45 unless otherwise ordered.

Fig. 0905 Gate Valve

Flanged 125 PSI SWP 200 PSI CWP

All Iron – Outside Screw and Yoke – Taper Seat – Renewable Iron Ring

Conforms to MSS SP-70



#### 0905 PART

1. Stem	Steel ASTM A-108 GR 1215
2. Handwheel Nut	Brass ASTM B-16
3. Handwheel	Cast Iron ASTM A-126 CL B
4. Yoke Nut	Steel ASTM A-307 GR B
5. Yoke	Cast Iron ASTM A-126 CL B
6. Follower	Cast Iron ASTM A-126 CL B
7. Packing	Non Asbestos
8. Bonnet Bushing	Cast Iron ASTM A-126 CL B
9. Bonnet	Cast Iron ASTM A-126 CL B
10. Body/Bonnet Gasket	Non Asbestos

#### SPECIFICATION

11. Body	Cast Iron ASTM A-126 CL B
12. Seat Ring	Cast Iron ASTM A-126 CL B
13. Wedge	Cast Iron ASTM A-126 CL B
14. Gland Nut	Steel ASTM A-307 GR B
15. Gland Bolt	Steel ASTM A-307 GR B
16. Body Bolt	Steel ASTM A-307 GR B
17. Body Nut	Steel ASTM A-307 GR B
18. Wedge Nut	Steel ASTM A-307 GR B
19. Pin	Steel ASTM A-307 GR B

SIZE	0905 DIMENSIONS (in.)					
	A	B	C	D	E	F
2"	7	14 <sup>1</sup> / <sub>2</sub>	12 <sup>9</sup> / <sub>16</sub>	7 <sup>15</sup> / <sub>32</sub>	6	5 <sup>5</sup> / <sub>8</sub>
2 <sup>1</sup> / <sub>2</sub> "	7 <sup>1</sup> / <sub>2</sub>	16 <sup>13</sup> / <sub>32</sub>	13 <sup>5</sup> / <sub>8</sub>	7 <sup>15</sup> / <sub>32</sub>	7	1 <sup>1</sup> / <sub>16</sub>
3"	8	18 <sup>13</sup> / <sub>16</sub>	15 <sup>5</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>
4"	9	22 <sup>23</sup> / <sub>32</sub>	18 <sup>5</sup> / <sub>8</sub>	9 <sup>13</sup> / <sub>16</sub>	9	15 <sup>5</sup> / <sub>16</sub>
6"	10 <sup>1</sup> / <sub>2</sub>	31 <sup>5</sup> / <sub>16</sub>	24 <sup>3</sup> / <sub>4</sub>	12	11	1
8"	11 <sup>1</sup> / <sub>2</sub>	39 <sup>3</sup> / <sub>32</sub>	30 <sup>5</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>32</sub>	13 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>
10"	13	47 <sup>13</sup> / <sub>32</sub>	37 <sup>3</sup> / <sub>8</sub>	15 <sup>31</sup> / <sub>32</sub>	16	13 <sup>3</sup> / <sub>16</sub>
12"	14	55 <sup>3</sup> / <sub>16</sub>	42 <sup>7</sup> / <sub>8</sub>	18	19	1 <sup>1</sup> / <sub>4</sub>
14"	15	64 <sup>3</sup> / <sub>4</sub>	50	20	21	1 <sup>3</sup> / <sub>8</sub>
16"	16	73 <sup>1</sup> / <sub>2</sub>	56 <sup>1</sup> / <sub>2</sub>	22	23 <sup>1</sup> / <sub>2</sub>	1 <sup>7</sup> / <sub>16</sub>
18"	17	81 <sup>1</sup> / <sub>4</sub>	62 <sup>7</sup> / <sub>16</sub>	24	25	1 <sup>9</sup> / <sub>16</sub>
20"	18	89 <sup>1</sup> / <sub>2</sub>	68 <sup>7</sup> / <sub>8</sub>	24	27 <sup>1</sup> / <sub>2</sub>	1 <sup>11</sup> / <sub>16</sub>
24"	20	105	80	30	32	1 <sup>7</sup> / <sub>8</sub>

SIZE	WEIGHT (lbs.)												
	2"	2 <sup>1</sup> / <sub>2</sub> "	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
0905	41	57	74	110	140	187	291	445	656	938	1300	1604	2008

All face to face dimensions conform to ANSI B16.10. Flanges of these valves conform to ANSI B16.1. It is recommended that valves 6" and larger be equipped with a by-pass. The size of the by-pass will be based on steam ratings in accordance with MSS Standard SP-45 unless otherwise ordered.

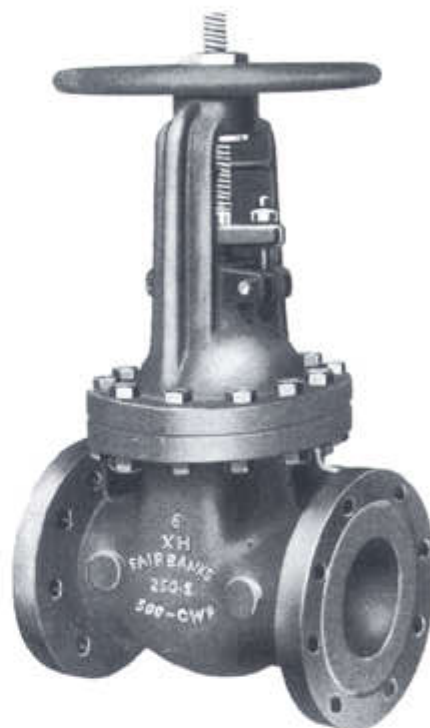
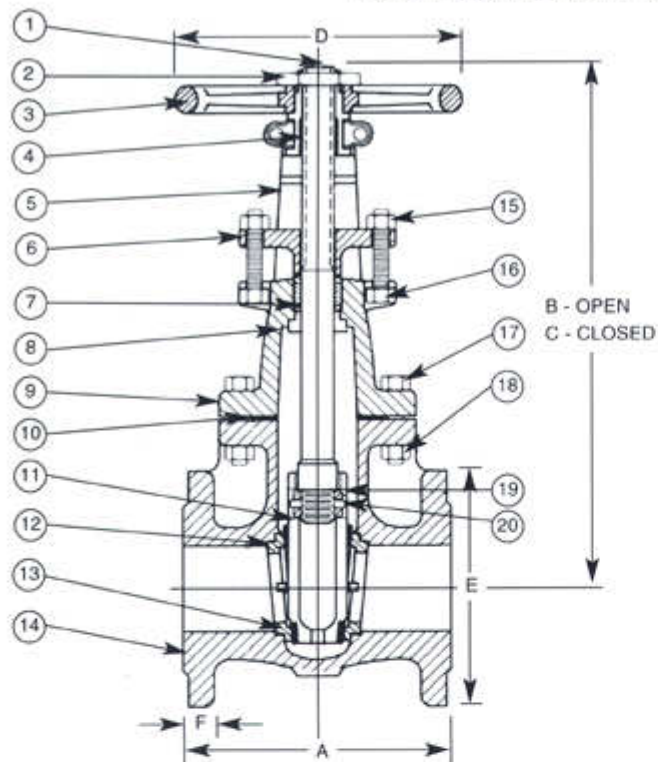
# Iron Body Gate Valve

Class 250

# Fairbanks®

**Fig. 0312 Gate Valve**  
 2"-12" Flanged 250 PSI SWP 500 PSI CWP  
**Bronze Mounted - Outside Screw & Yoke - Taper Seat**

Conforms to MSS SP-70  
 Federal Specification WW-V-58 Type I, Class 2



## 0312 PART

## SPECIFICATION

1. Stem	Brass ASTM B-16
2. Yoke Lock Nut	Brass ASTM B-16
3. Handwheel	Cast Iron ASTM A-126 CL B
4. Yoke Nut	Bronze ASTM B-62
5. Yoke	Cast Iron ASTM A-126 CL B
6. Follower	Cast Iron ASTM A-126 CL B
7. Packing	Non Asbestos
8. Bonnet Bushing	Brass ASTM B-16
9. Bonnet	Cast Iron ASTM A-126 CL B
10. Body/Bonnet Gasket	Non Asbestos

11. Wedge	Cast Iron ASTM A-126 CL B
12. Seat Ring	Bronze ASTM B-62
13. Wedge Face	Bronze ASTM B-62
14. Body	Cast Iron ASTM A-126 CL B
15. Gland Nut	Steel ASTM A-307 GR B
16. Gland Bolt	Steel ASTM A-307 GR B
17. Body Bolt	Steel ASTM A-307 GR B
18. Body Nut	Steel ASTM A-307 GR B
19. Wedge Nut	Bronze ASTM B-62
20. Pin	Brass ASTM B-16

0312 DIMENSIONS (in.)						
SIZE	A	B	C	D	E	F
2"	8 <sup>1</sup> / <sub>2</sub>	15 <sup>27</sup> / <sub>32</sub>	13 <sup>13</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	7 <sup>7</sup> / <sub>8</sub>
2 <sup>1</sup> / <sub>2</sub> "	9 <sup>1</sup> / <sub>2</sub>	17 <sup>5</sup> / <sub>32</sub>	16	7 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	1
3"	11 <sup>1</sup> / <sub>8</sub>	19 <sup>31</sup> / <sub>32</sub>	16 <sup>11</sup> / <sub>16</sub>	9 <sup>27</sup> / <sub>32</sub>	8 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>
4"	12	25 <sup>3</sup> / <sub>8</sub>	20 <sup>5</sup> / <sub>8</sub>	12	10	1 <sup>1</sup> / <sub>4</sub>
6"	15 <sup>7</sup> / <sub>8</sub>	32 <sup>5</sup> / <sub>8</sub>	26 <sup>5</sup> / <sub>16</sub>	14	12 <sup>1</sup> / <sub>2</sub>	1 <sup>7</sup> / <sub>16</sub>
8"	16 <sup>1</sup> / <sub>2</sub>	41 <sup>27</sup> / <sub>32</sub>	33 <sup>9</sup> / <sub>32</sub>	16	15	1 <sup>5</sup> / <sub>8</sub>
10"	18	50 <sup>1</sup> / <sub>8</sub>	39 <sup>3</sup> / <sub>8</sub>	18	17 <sup>17</sup> / <sub>32</sub>	1 <sup>7</sup> / <sub>8</sub>
12"	19 <sup>3</sup> / <sub>4</sub>	58 <sup>5</sup> / <sub>8</sub>	45 <sup>7</sup> / <sub>8</sub>	20	20 <sup>1</sup> / <sub>2</sub>	2

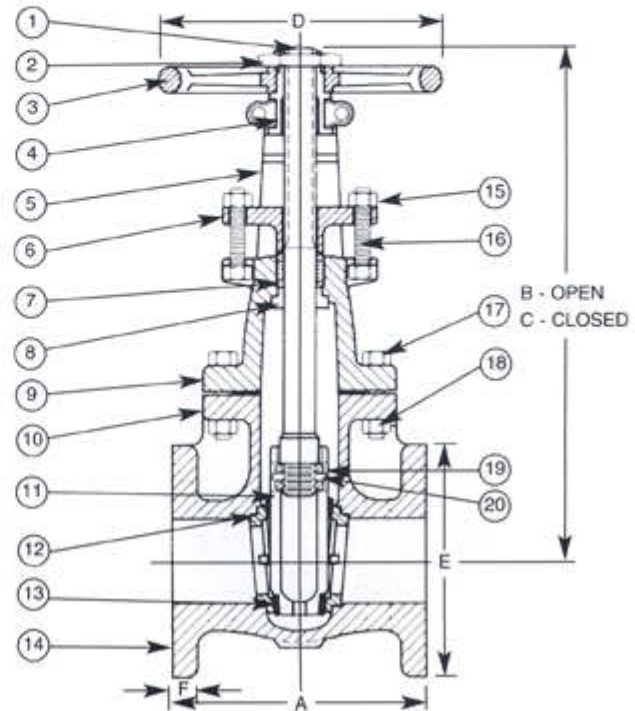
WEIGHT (lbs.)									
SIZE	2"	2 <sup>1</sup> / <sub>2</sub> "	3"	4"	5"	6"	8"	10"	12"
0312	56	74	105	180	259	335	520	714	1070

All face to face dimensions conform to ANSI B16.10. Flanges of these valves conform to ANSI B16.1. It is recommended that valves 6" and larger be equipped with a by-pass. The size of the by-pass will be based on steam ratings in accordance with MSS Standard SP-45 unless otherwise ordered.

**Fig. 0405NI Gate Valve**  
 2"-12" Flanged 125 PSI SWP 200 PSI CWP  
**Bronze Mounted - Outside Screw & Yoke - Taper Seat**

**Class 125**

Conforms to MSS SP-70  
 Federal Specification WW-V-58 Type I, Class 1



### 0405NI PART

0405NI PART	SPECIFICATION
1. Stem	ASTM A-276-316
2. Yoke Lock Nut	Brass ASTM B-16
3. Handwheel	Cast Iron ASTM A-126 CL B
4. Yoke Nut	Ductile Iron
5. Yoke	3% Nickel
6. Follower	3% Nickel
7. Packing	Asbestos Free
8. Bonnet Bushing	316 Stainless Steel
9. Bonnet	3% Nickel
10. Body/Bonnet Gasket	Asbestos Free
11. Wedge	3% Nickel
12. Seat Ring	316 Stainless Steel
13. Disc Face	316 Stainless Steel
14. Body	3% Nickel
15. Gland Nut	Steel ASTM A-307 GR B
16. Gland Bolt	Steel ASTM A-307 GR B
17. Body Bolt	Steel ASTM A-307 GR B
18. Body Nut	Steel ASTM A-307 GR B
19. Wedge Nut	316 Stainless Steel
20. Pin	316 Stainless Steel

SIZE	0405NI DIMENSIONS (in.)					
	A	B	C	D	E	F
2"	7	14 <sup>1</sup> / <sub>2</sub>	12 <sup>9</sup> / <sub>16</sub>	7 <sup>15</sup> / <sub>32</sub>	6	5/8
3"	8	18 <sup>13</sup> / <sub>16</sub>	15 <sup>5</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>2</sub>	3/4
4"	9	22 <sup>23</sup> / <sub>32</sub>	18 <sup>5</sup> / <sub>8</sub>	9 <sup>13</sup> / <sub>16</sub>	9	15/16
6"	10 <sup>1</sup> / <sub>2</sub>	31 <sup>5</sup> / <sub>16</sub>	24 <sup>3</sup> / <sub>4</sub>	12	11	1
8"	11 <sup>1</sup> / <sub>2</sub>	39 <sup>3</sup> / <sub>32</sub>	30 <sup>5</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>32</sub>	13 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>
10"	13	47 <sup>13</sup> / <sub>32</sub>	37 <sup>3</sup> / <sub>8</sub>	15 <sup>31</sup> / <sub>32</sub>	16	1 <sup>3</sup> / <sub>16</sub>
12"	14	55 <sup>3</sup> / <sub>16</sub>	42 <sup>7</sup> / <sub>8</sub>	18	19	1 <sup>1</sup> / <sub>4</sub>

WEIGHT (lbs.)							
SIZE	2"	3"	4"	6"	8"	10"	12"
0405NI	41	74	110	187	291	445	656

All face to face dimensions conform to ANSI B16.10. Flanges of these valves conform to ANSI B16.1. It is recommended that valves 6" and larger be equipped with a by-pass. The size of the by-pass will be based on steam ratings in accordance with MSS Standard SP-45 unless otherwise ordered.

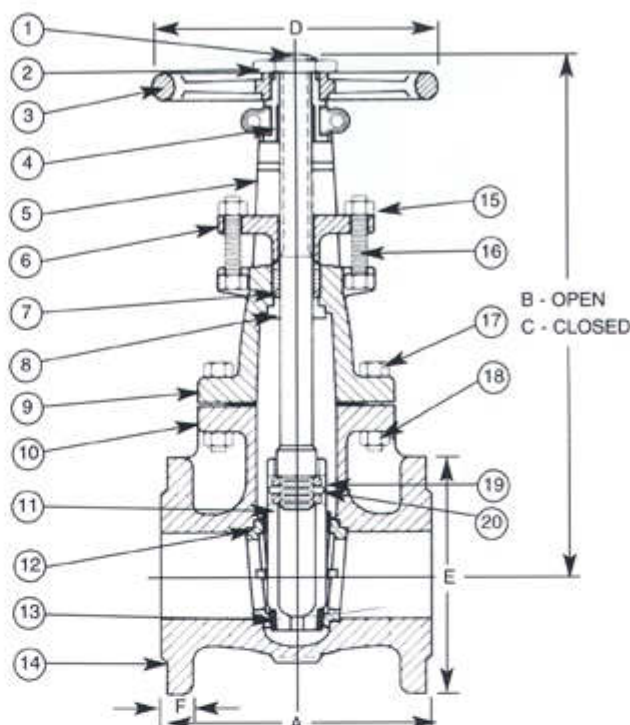
# Ductile Iron Body Gate Valve

# Fairbanks®

**Class 150**

**Fig. 0405DI Gate Valve**  
 2"-12" Flanged 150 PSI SWP 225 PSI CWP  
 Bronze Mounted - Outside Screw & Yoke - Solid Wedge - Taper Seat

Conforms to MSS SP-70  
 Federal Specification WW-V-58 Type I, Class 1



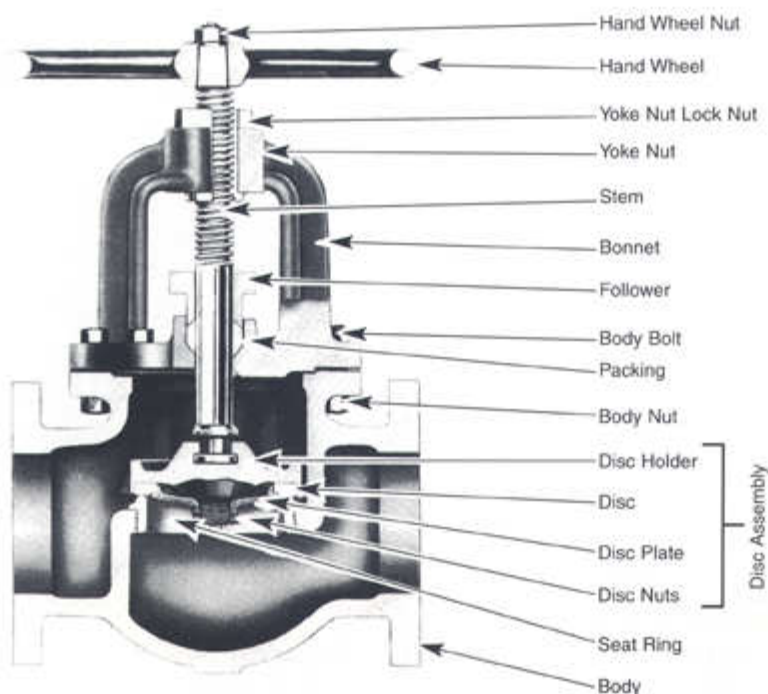
0405DI PART	SPECIFICATION
1. Stem	Bronze ASTM B-62
2. Yoke Lock Nut	Brass ASTM B-16
3. Handwheel	Cast Iron ASTM A-126 CL B
4. Yoke Nut	Steel ASTM A-307 GR B
5. Yoke	Ductile Iron ASTM A-536
6. Follower	Ductile Iron ASTM A-536
7. Packing	Asbestos Free
8. Bonnet Bushing	Bronze ASTM B-62
9. Bonnet	Ductile Iron ASTM A-536
10. Body/Bonnet Gasket	Asbestos Free
11. Wedge	Ductile Iron ASTM A-536
12. Seat Ring	Bronze ASTM B-61
13. Disc Face	Bronze ASTM B-61
14. Body	Ductile Iron ASTM A-536
15. Gland Nut	Steel ASTM A-307 GR B
16. Gland Bolt	Steel ASTM A-307 GR B
17. Body Bolt	Steel ASTM A-307 GR B
18. Body Nut	Steel ASTM A-307 GR B
19. Wedge Nut	.316 Stainless Steel
20. Pin	.316 Stainless Steel

0405DI DIMENSIONS (in.)						
SIZE	A	B	C	D	E	F
2"	7	14 <sup>1</sup> / <sub>2</sub>	12 <sup>2</sup> / <sub>16</sub>	7 <sup>15</sup> / <sub>32</sub>	6	<sup>5</sup> / <sub>8</sub>
3"	8	18 <sup>13</sup> / <sub>16</sub>	15 <sup>5</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>2</sub>	<sup>3</sup> / <sub>4</sub>
4"	9	22 <sup>23</sup> / <sub>32</sub>	18 <sup>5</sup> / <sub>8</sub>	9 <sup>13</sup> / <sub>16</sub>	9	1 <sup>5</sup> / <sub>16</sub>
6"	10 <sup>1</sup> / <sub>2</sub>	31 <sup>5</sup> / <sub>16</sub>	24 <sup>3</sup> / <sub>4</sub>	12	11	1
8"	11 <sup>1</sup> / <sub>2</sub>	39 <sup>3</sup> / <sub>32</sub>	30 <sup>5</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>32</sub>	13 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>
10"	13	47 <sup>13</sup> / <sub>32</sub>	37 <sup>3</sup> / <sub>8</sub>	15 <sup>31</sup> / <sub>32</sub>	16	1 <sup>3</sup> / <sub>16</sub>
12"	14	55 <sup>3</sup> / <sub>16</sub>	42 <sup>7</sup> / <sub>8</sub>	18	19	1 <sup>1</sup> / <sub>4</sub>

WEIGHT (lbs.)								
SIZE	2"	3"	4"	5"	6"	8"	10"	12"
0405DI	41	74	110	140	187	291	445	656

All face to face dimensions conform to ANSI B16.10. Flanges of these valves conform to ANSI B16.5. It is recommended that valves 6" and larger be equipped with a by-pass. The size of the by-pass will be based on steam ratings in accordance with MSS Standard SP-45 unless otherwise ordered.

### Fairbanks Iron Body Globe Valves General Information



Iron Body Globe Valve

All Fairbanks iron globe valves are full-port. This full-port feature reduces pressure drop to a minimum, and also assures the user of full value.

**APPLICATION** - Globe valves are generally recommended for use on services handling liquid, vapor or gas in applications where it is necessary to throttle or regulate the flow by positioning the disc in a fully open, fully closed, or intermediate position. In addition to throttling, globe valves are recommended in applications where rapid cycle of operation is anticipated.

Due to the design of the globe valve, the path of the fluid changes direction several times causing a condition of turbulent flow which in turn will cause an increase in the pressure drop through the valve. Because of this, we do not recommend a globe valve in applications where pressure drop is to be kept to a minimum.

There are occasions where absolute minimum pressure drop plus positive closure is essential. In such cases we recommend that the next larger size globe valve be installed by the use of adapters rather than attempting to use a gate valve.

Fairbanks iron globe valves have Outside Screw and Yoke (OS&Y) construction. This design removes stem threads from heat and corrosive conditions inside the valve. It also enables stem threads to be cleaned and lubricated easily.

**REGRINDING VALVES** - Fairbanks valves are designed so that any of the parts are replaceable if worn or damaged. All Fairbanks iron globe valves with metal discs can be reground after wear has destroyed the original tight seal, without removing the valve from the line.

In metal-disc globe valves, the disc is positively guided by a stud threaded into the bottom of the disc which slides through a hole drilled in a spider arrangement cast integral with the seat ring. This design assures correct alignment for a tight seal.

# Iron Body Globe Valve

Class 125

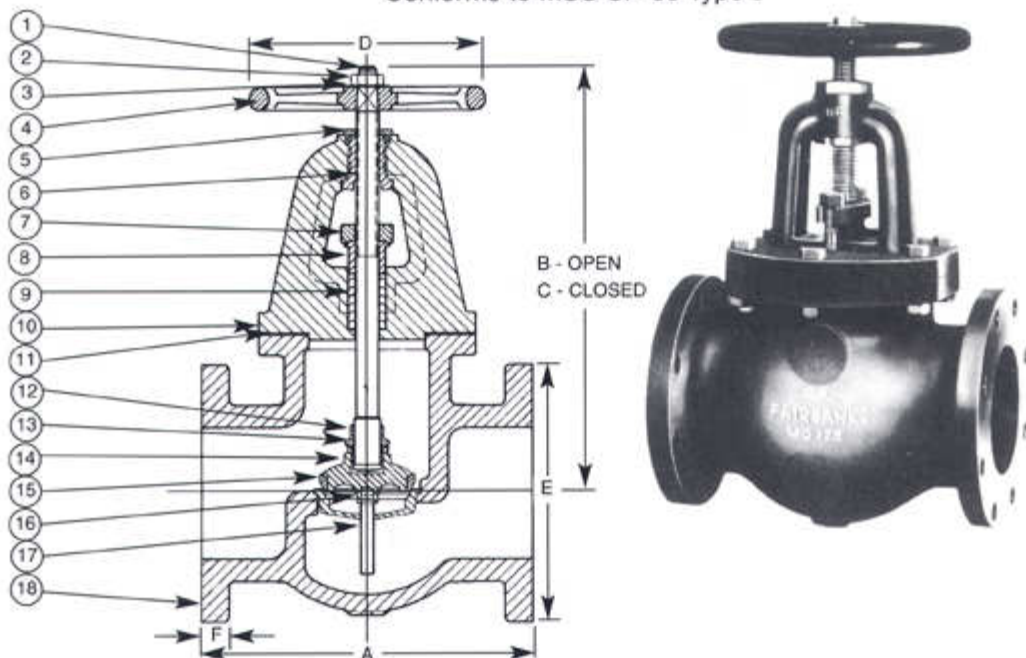
# Fairbanks®

**Fig. 0131 Globe Valve**

2"-12" Flanged 125 PSI SWP 200 PSI CWP

**Bronze Mounted – Bronze-Faced Bevel Disc – Bronze Seat – Regrinding – Renewable**

Conforms to MSS SP-85 Type I



## 0131 PART

0131 PART	SPECIFICATION
1. Stem	Brass ASTM B-16
2. Handwheel Nut	Steel ASTM A-307 GR B
3. Handwheel Washer	Steel
4. Handwheel	Cast Iron ASTM A-126 CL B
5. Yoke Lock Nut	Brass ASTM B-16
6. Yoke Nut	Bronze ASTM B-62
7. Follower	Cast Iron ASTM A-126 CL B
8. Gland	Bronze ASTM B-62
9. Packing	Non Asbestos
10. Bonnet	Cast Iron ASTM A-126 CL B
11. Body/Bonnet Gasket	Non Asbestos
12. Swivel Nut	Cast Iron ASTM A-126 CL B
13. Retainer	Brass ASTM B-16
14. Disc	Cast Iron ASTM A-126 CL B
15. Disc Face	Bronze ASTM B-62
16. Seat Ring	Bronze ASTM B-62
17. Disc Guide	Brass ASTM B-16
18. Body	Cast Iron ASTM A-126 CL B
19. Body Bolt (Not Shown)	Steel ASTM A-307 GR B
20. Body Nut (Not Shown)	Steel ASTM A-307 GR B
21. Follower Stud (Not Shown)	Steel ASTM A-307 GR B
22. Follower Stud Nut (Not Shown)	Steel ASTM A-307 GR B

## 0131 DIMENSIONS (in.)

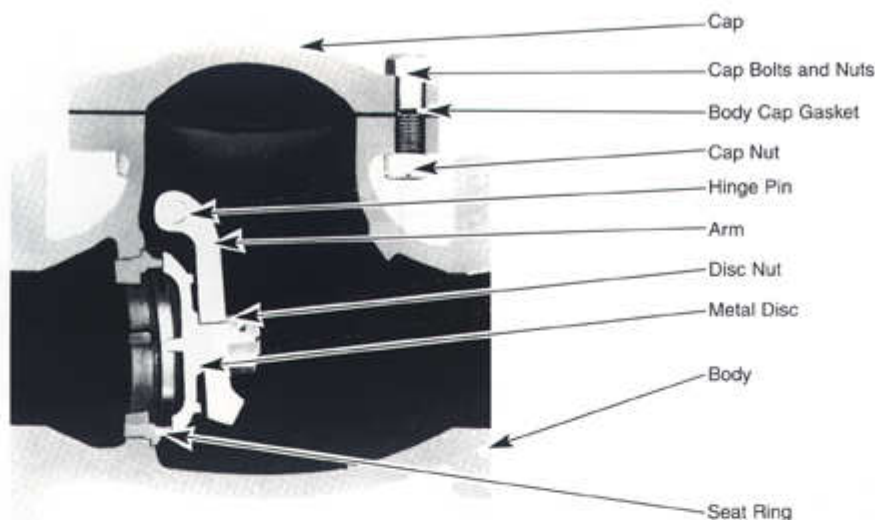
SIZE	A	B	C	D	E	F
2"	8	10 <sup>5</sup> / <sub>8</sub>	9 <sup>7</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>2</sub>	6	<sup>5</sup> / <sub>8</sub>
2 <sup>1</sup> / <sub>2</sub> "	8 <sup>1</sup> / <sub>2</sub>	11 <sup>13</sup> / <sub>32</sub>	10 <sup>1</sup> / <sub>32</sub>	6 <sup>1</sup> / <sub>2</sub>	7	<sup>11</sup> / <sub>16</sub>
3"	9 <sup>1</sup> / <sub>2</sub>	12 <sup>13</sup> / <sub>32</sub>	10 <sup>29</sup> / <sub>32</sub>	7 <sup>15</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>2</sub>	<sup>3</sup> / <sub>4</sub>
4"	11 <sup>1</sup> / <sub>2</sub>	15 <sup>5</sup> / <sub>32</sub>	13 <sup>11</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>32</sub>	9	<sup>15</sup> / <sub>16</sub>
5"	13	14 <sup>9</sup> / <sub>16</sub>	14 <sup>3</sup> / <sub>16</sub>	12	10	<sup>15</sup> / <sub>16</sub>
6"	14	17 <sup>3</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>2</sub>	12	11	1
8"	19 <sup>1</sup> / <sub>2</sub>	19 <sup>11</sup> / <sub>16</sub>	18 <sup>3</sup> / <sub>8</sub>	14	13 <sup>1</sup> / <sub>2</sub>	<sup>1</sup> / <sub>8</sub>
10"	24 <sup>1</sup> / <sub>2</sub>	22 <sup>11</sup> / <sub>16</sub>	20 <sup>9</sup> / <sub>16</sub>	20	16	<sup>13</sup> / <sub>16</sub>
12"	27 <sup>1</sup> / <sub>2</sub>	27	23 <sup>1</sup> / <sub>4</sub>	22	19	<sup>1</sup> / <sub>4</sub>

## WEIGHT (lbs.)

SIZE	2"	2 <sup>1</sup> / <sub>2</sub> "	3"	4"	5"	6"	8"	10"	12"
0131	36	49	57	95	139	183	378	523	700

All face to face dimensions conform to ANSI B16.10. Flanges of these valves conform to ANSI B16.1. It is recommended that valves 6" and larger be equipped with a by-pass. The size of the by-pass will be based on steam ratings in accordance with MSS Standard SP-45 unless otherwise ordered.

### Fairbanks Iron Body Check Valves General Information



Horizontal Swing Check Valve  
Regrinding Bronze Disc  
Fig. 0702

**APPLICATION** - The function of a check valve is to prevent the reversal of flow in piping systems. The valve is kept open by line pressure while closure is automatically activated by the reversal of flow or by the weight of the disc mechanism.

The correct sizing of a check valve is very important, particularly when the service is on water lines and other non-compressible materials. When used in proximity of a pump, we recommend that the check valve be the same size as the discharge orifice on the pump. The reason being that if the check valve is a much larger size than the pump orifice, the resulting excessive turbulence through the check valve not only causes a clatter, but also results in rapid wear of the internal parts.

Fairbanks swing check valves are available in two types: bronze mounted or all iron. The bronze mounted check valve is more commonly used. Due to the relative softness and ductility of the bronze facing it offers a more positive sealing effect than would a harder material, such as the all iron. At the same time, the bronze mounting is very versatile in its suitability to temperature and various commonly handled materials.

Fairbanks offers a line of all iron swing check valves for use in services where the medium being handled might attack bronze.

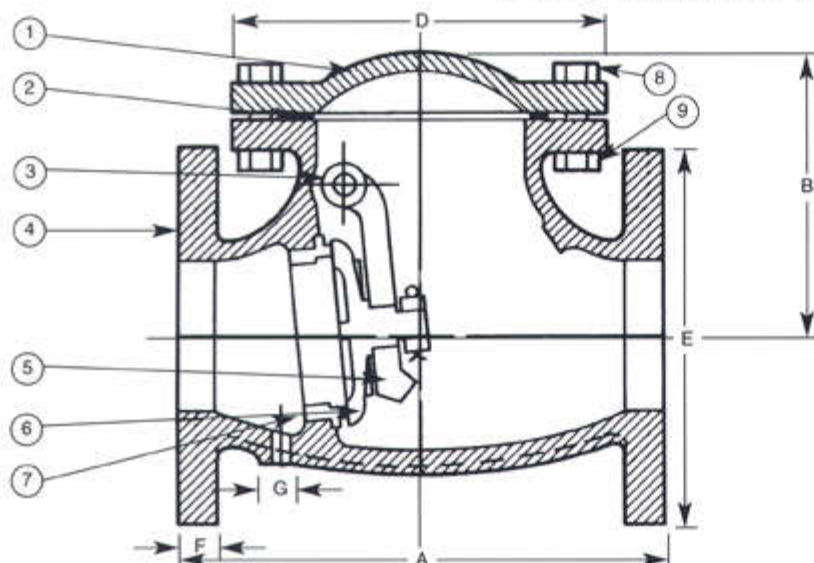
# Iron Body Check Valve

# Fairbanks®

Class 125

**Fig. 0702/0702AI Swing Check Valve**  
2"-24" Flanged 125 PSI SWP 200 PSI CWP  
**Available in All Iron sizes 2"-12"**

Conforms to MSS SP-71 Type I



## 0702 PART

1. Cap	Cast Iron ASTM A-126 CL B
2. Gasket	Non Asbestos
3. Hinge Pin	Brass ASTM B-16
3. Hinge Pin (All Iron)*	Steel ASTM A-108 GR 1215
4. Body	Cast Iron ASTM A-126 CL B
5. Clapper Arm	Ductile Iron ASTM A-395
6. Disc	Cast Iron ASTM A-126 CL B
6. Disc (All Iron)*	Cast Iron ASTM A-126 CL B
7. Seat Ring	Bronze ASTM B-62
7. Seat Ring (All Iron)*	Cast Iron ASTM A-126 CL B
8. Cap Bolt	Steel ASTM A-307 GR B
9. Cap Nut	Steel ASTM A-307 GR B
10. Disc Face (Not Shown)	Bronze ASTM B-62
11. Side Plug (Not Shown)	Steel ASTM A-105

## SPECIFICATION

\* Use Suffix AI to order all iron valves

0702 DIMENSIONS (in.)						
SIZE	A	B	D	E	F	G
2"	8	4 <sup>13</sup> / <sub>32</sub>	6 <sup>1</sup> / <sub>8</sub>	6	5 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>
2 <sup>1</sup> / <sub>2</sub> "	8 <sup>1</sup> / <sub>2</sub>	5 <sup>5</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>4</sub>	7	1 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub>
3"	9 <sup>1</sup> / <sub>2</sub>	5 <sup>5</sup> / <sub>8</sub>	7 <sup>19</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>
4"	11 <sup>1</sup> / <sub>2</sub>	6 <sup>31</sup> / <sub>32</sub>	8 <sup>5</sup> / <sub>8</sub>	9	1 <sup>5</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>
6"	14	8 <sup>15</sup> / <sub>32</sub>	11 <sup>5</sup> / <sub>8</sub>	11	1	1 <sup>1</sup> / <sub>2</sub>
8"	19 <sup>1</sup> / <sub>2</sub>	11 <sup>7</sup> / <sub>32</sub>	14 <sup>1</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>
10"	24 <sup>1</sup> / <sub>2</sub>	13 <sup>13</sup> / <sub>16</sub>	16 <sup>3</sup> / <sub>8</sub>	16	1 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>4</sub>
12"	27 <sup>1</sup> / <sub>2</sub>	14 <sup>21</sup> / <sub>32</sub>	19 <sup>3</sup> / <sub>32</sub>	19	1 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>
14"	31	15 <sup>3</sup> / <sub>4</sub>	22 <sup>1</sup> / <sub>4</sub>	21	1 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>
16"	36	17 <sup>1</sup> / <sub>4</sub>	26 <sup>3</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>2</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>8</sub>
18"	38	19	27 <sup>1</sup> / <sub>4</sub>	25	1 <sup>9</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>8</sub>
20"	42	21 <sup>7</sup> / <sub>8</sub>	29 <sup>3</sup> / <sub>4</sub>	27 <sup>1</sup> / <sub>2</sub>	1 <sup>11</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>8</sub>
24"	46	24 <sup>7</sup> / <sub>16</sub>	34 <sup>7</sup> / <sub>8</sub>	32	1 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>

## WEIGHT (lbs.)

SIZE	2"	2 <sup>1</sup> / <sub>2</sub> "	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
0702	25	34	43	74	122	253	385	615	1011	1290	1720	2340	3515

0702AI DIMENSIONS (in.)						
SIZE	A	B	D	E	F	G
2"	8	4 <sup>13</sup> / <sub>32</sub>	6 <sup>1</sup> / <sub>8</sub>	6	5 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>
2 <sup>1</sup> / <sub>2</sub> "	8 <sup>1</sup> / <sub>2</sub>	5 <sup>5</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>4</sub>	7	1 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub>
3"	9 <sup>1</sup> / <sub>2</sub>	5 <sup>5</sup> / <sub>8</sub>	7 <sup>19</sup> / <sub>32</sub>	7 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>
4"	11 <sup>1</sup> / <sub>2</sub>	6 <sup>31</sup> / <sub>32</sub>	8 <sup>5</sup> / <sub>8</sub>	9	1 <sup>5</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>
6"	14	8 <sup>15</sup> / <sub>32</sub>	11 <sup>5</sup> / <sub>8</sub>	11	1	1 <sup>1</sup> / <sub>2</sub>
8"	19 <sup>1</sup> / <sub>2</sub>	11 <sup>7</sup> / <sub>32</sub>	14 <sup>1</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>
10"	24 <sup>1</sup> / <sub>2</sub>	13 <sup>13</sup> / <sub>16</sub>	16 <sup>3</sup> / <sub>8</sub>	16	1 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>4</sub>
12"	27 <sup>1</sup> / <sub>2</sub>	14 <sup>21</sup> / <sub>32</sub>	19 <sup>3</sup> / <sub>32</sub>	19	1 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>

## WEIGHT (lbs.)

SIZE	2"	2 <sup>1</sup> / <sub>2</sub> "	3"	4"	6"	8"	10"	12"
0702AI	25	34	43	74	122	253	385	615

All face to face dimensions conform to ANSI B16.10. Flanges conform to ANSI B16.1. It is recommended that valves 6" and larger be equipped with a by-pass. The size of the by-pass will be based on steam ratings in accordance with MSS Standard SP-45 unless otherwise ordered. All iron valves are also available. Use suffix AI to order.

## Warranty

For a period ending eighteen (18) months after date of factory shipment, or one (1) year after date of installation, or any of the goods described in this catalog (whichever occurs first), Zy-Tech Global Industries, Inc. warrants such goods shall remain free from failure due to defects in workmanship and materials incorporated therein by or for Zy-Tech Global Industries, Inc., provided such failure shall not have been caused or contributed to by improper usage, service or application, or by improper installation or maintenance, or by repairs, alterations, modifications effected by or for the user, or by misuse, negligence or accident. In the event of failure for which Zy-Tech Global Industries, Inc. has assumed warranty obligations hereunder, and provided written notification of such failure shall be immediately given to Zy-Tech Global Industries, Inc. at the address appearing below, Zy-Tech Global Industries, Inc. agrees to repair, or, at its sole option, to replace such defective goods at its sole expense.

Apart from the warranty and undertakings above set forth, Zy-Tech Global Industries, Inc. assumes no obligation or liability for losses, expenses or damages, direct or consequential, suffered or incurred as a result of any failure of, or defect in, the goods described herein, including but not limited to such costs, expenses, or damages as may result from the necessity to remove, replace, restore, or transport the goods from any location or service in which they may be used, regardless of the cause of such failure or defect.

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Since 1830

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Fax: (403) 469-1293



### **ZY-TECH GLOBAL INDUSTRIES, INC.**

*Formerly Zidell Valve Corporation*

10600 Corporate Drive  
Stafford, TX 77477

Tel: (281) 565-1010

Fax: (281) 565-3171

Toll Free: (800) 231-3530

E-MAIL: [Sales@Zy-Tech.com](mailto:Sales@Zy-Tech.com)

Website: [www.zy-tech.com](http://www.zy-tech.com)