

# BRONZE GATE VALVES

## 101S/101S-LF SERIES



**Features:**  
Threaded Bonnet  
Solid Disc  
Rising Stem  
Solder Ends



**Body, Bonnet & Wedge:**  
ASTM B62 Bronze  
LF = ASTM B584-C89836

**Stem:** ASTM B371 Sil-Brz

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

All dimensions are in inches and pounds.

### 200 CWP GATE VALVE

Part Number	LEAD FREE Part Number	NPS	Length	Height	Weight
30-083-01	30LF-083-01	1/2	1.88	4.85	1.00
30-084-01	30LF-084-01	3/4	2.43	5.71	1.30
30-085-01	30LF-085-01	1	2.96	6.71	2.20
30-086-01	30LF-086-01	1 1/4	3.14	8.10	3.20
30-087-01	30LF-087-01	1 1/2	3.44	9.08	4.40
30-088-01	30LF-088-01	2	4.11	11.28	7.00
30-089-01	30LF-089-01	2 1/2	4.79	14.58	13.80
30-080-01	30LF-080-01	3	5.43	19.07	17.70

Length is measured from end to end. Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

## 101T/101T-LF SERIES



**Features:**  
Threaded Bonnet  
Solid Disc  
Rising Stem  
NPT



**Body, Bonnet & Wedge:**  
ASTM B62 Bronze  
LF = ASTM B584-C89836

**Stem:** ASTM B371 Sil-Brz

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

All dimensions are in inches and pounds.

### Class 125 (200 CWP, 125 SWP) GATE VALVE

Part Number	LEAD FREE Part Number	NPS	Length	Height	Weight
30-001-01	30LF-001-01	1/4	1.76	4.57	0.80
30-002-01	30LF-002-01	3/8	1.76	4.51	0.77
30-003-01	30LF-003-01	1/2	2.03	4.85	1.00
30-004-01	30LF-004-01	3/4	2.07	5.71	1.30
30-005-01	30LF-005-01	1	2.45	6.71	2.16
30-006-01	30LF-006-01	1 1/4	2.63	8.10	3.20
30-007-01	30LF-007-01	1 1/2	2.88	9.08	4.36
30-008-01	30LF-008-01	2	3.06	11.28	7.01
30-009-01	30LF-009-01	2 1/2	4.13	14.58	13.79
30-000-01	30LF-000-01	3	4.48	19.07	17.70

Length is measured from end to end. Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

## 102S/102S-LF SERIES



**Features:**  
Threaded Bonnet  
Solid Disc  
Non-Rising Stem  
Solder Ends



**Body, Bonnet & Wedge:**  
ASTM B62 Bronze  
LF = ASTM B584-C89836

**Stem:** ASTM B371 Sil-Brz

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

All dimensions are in inches and pounds.

### 200 CWP GATE VALVE

Part Number	LEAD FREE Part Number	NPS	Length	Height	Weight
30-043-01	30LF-043-01	1/2	1.88	3.56	0.85
30-044-01	30LF-044-01	3/4	2.43	4.05	1.19
30-045-01	30LF-045-01	1	2.96	4.55	1.98
30-046-01	30LF-046-01	1 1/4	3.14	5.14	2.80
30-047-01	30LF-047-01	1 1/2	3.44	6.02	3.95
30-048-01	30LF-048-01	2	4.11	7.09	5.88
30-049-01	30LF-049-01	2 1/2	4.79	9.11	12.19
30-040-01	30LF-040-01	3	5.43	12.61	16.84

Length is measured from end to end. Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.



# BRONZE GATE VALVES

All dimensions are in inches and pounds.

## 102T/102T-LF SERIES



**Features:**  
Threaded Bonnet  
Solid Disc  
Non-Rising Stem  
NPT



**Body, Bonnet & Wedge:**  
ASTM B62 Bronze  
**LF** = ASTM B584-C89836

**Stem:** ASTM B371 Sil-Brz

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

### Class 125 (200 CWP, 125 SWP) GATE VALVE

Part Number	LEAD FREE Part Number	NPS	Length	Height	Weight
30-031-01	30LF-031-01	1/4	1.76	3.29	0.74
30-032-01	30LF-032-01	3/8	1.76	3.29	0.71
30-033-01	30LF-033-01	1/2	2.03	3.56	0.85
30-034-01	30LF-034-01	3/4	2.07	4.05	1.19
30-035-01	30LF-035-01	1	2.45	4.55	1.98
30-036-01	30LF-036-01	1 1/4	2.63	5.14	2.80
30-037-01	30LF-037-01	1 1/2	2.88	6.02	3.95
30-038-01	30LF-038-01	2	3.06	7.09	5.88
30-039-01	30LF-039-01	2 1/2	4.13	9.11	12.19
30-030-01	30LF-030-01	3	4.48	12.61	16.84

Length is measured from end to end. Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

All dimensions are in inches and pounds.

## 102T-K SERIES (Irrigation)



**Features:**  
Threaded Bonnet  
Solid Disc  
Non-Rising Stem  
NPT  
Cross-Handle (irrigation)

**Body, Bonnet & Wedge:**  
ASTM B62 Bronze

**Stem:** ASTM B371 Sil-Brz

**Packing:** Graphoil

**Cross-Handle:** Bronze

### Class 125 (200 CWP, 125 SWP) GATE VALVE

Part Number	NPS	Length	Height	Weight
30-033-01K	1/2	2.03	3.56	0.85
30-034-01K	3/4	2.07	4.05	1.19
30-035-01K	1	2.45	4.55	1.98
30-036-01K	1 1/4	2.63	5.14	2.80
30-037-01K	1 1/2	2.88	6.02	3.95
30-038-01K	2	3.06	7.09	5.88
30-039-01K	2 1/2	4.13	9.11	12.19
30-030-01K	3	4.48	12.61	16.84

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

All dimensions are in inches and pounds.

## 103T SERIES



**Features:**  
Union Bonnet  
Solid Disc  
Rising Stem  
NPT

**Body, Bonnet & Wedge:**  
ASTM B62 Bronze

**Stem:** ASTM B371 Sil-Brz

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

### Class 125 (200 CWP, 125 SWP) GATE VALVE

Part Number	NPS	Length	Height	Weight
30-051-01	1/4	1.76	4.57	0.90
30-052-01	3/8	1.76	4.51	0.86
30-053-01	1/2	2.03	4.85	1.07
30-054-01	3/4	2.07	5.71	1.43
30-055-01	1	2.45	6.71	2.44
30-056-01	1 1/4	2.63	8.10	3.71
30-057-01	1 1/2	2.88	9.08	4.89
30-058-01	2	3.06	11.28	7.53
30-059-01	2 1/2	4.96	14.58	15.33
30-050-01	3	4.48	19.07	19.56

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.



For additional information, submittal sheets and manuals, visit [www.apollovalves.com](http://www.apollovalves.com)

Customer Service (704) 841-6000

# BRONZE GATE VALVES

All dimensions are in inches and pounds.

## 106T SERIES



**Features:**  
Threaded Bonnet  
Solid Disc  
Non-Rising Stem  
NPT

**Body, Bonnet & Wedge:**  
ASTM B62 Bronze

**Stem:** ASTM B371 Sil-Brz

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

### Class 150 (300 CWP, 150 SWP) GATE VALVE

Part Number	NPS	Length	Height	Weight
30-281-01	1/4	1.76	3.29	0.74
30-282-01	3/8	1.76	3.29	0.71
30-283-01	1/2	2.03	3.56	0.98
30-284-01	3/4	2.07	4.05	1.21
30-285-01	1	2.45	4.55	1.98
30-286-01	1 1/4	2.63	5.14	2.80
30-287-01	1 1/2	2.88	6.02	4.06
30-288-01	2	3.06	7.09	5.88
30-289-01	2 1/2	4.13	9.11	12.19
30-280-01	3	4.48	12.61	16.90

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

All dimensions are in inches and pounds.

## 107T SERIES



**Features:**  
Union Bonnet  
Solid Disc  
Rising Stem  
NPT

**Body, Bonnet & Wedge:**  
ASTM B62 Bronze

**Stem:** ASTM B371 Sil-Brz

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

### Class 150 (300 CWP, 150 SWP) GATE VALVE

Part Number	NPS	Length	Height	Weight
30-201-01	1/4	1.76	4.57	0.90
30-202-01	3/8	1.76	4.51	0.86
30-203-01	1/2	2.03	4.85	1.07
30-204-01	3/4	2.07	5.71	1.43
30-205-01	1	2.45	6.71	2.50
30-206-01	1 1/4	2.63	8.10	3.69
30-207-01	1 1/2	2.88	9.13	5.01
30-208-01	2	3.06	11.28	7.53
30-209-01	2 1/2	4.13	14.58	15.33
30-200-01	3	4.48	16.90	19.56

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

All dimensions are in inches and pounds.

## 111T SERIES and 116T SERIES



**Features:**  
Union Bonnet  
Solid Disc  
Rising Stem  
NPT

**Body, Bonnet & Wedge:**  
ASTM B61 Bronze

**SS Seat Option:** Type 316 SS

**Stem:** ASTM B371 Sil-Brz

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

### Class 300 (1000 CWP, 300 SWP) GATE VALVE

Part Number	SS Seat Part Number	NPS	Length	Height	Weight
30-443-01	30-453-01	1/2	2.31	4.97	1.40
30-444-01	30-454-01	3/4	2.56	6.22	2.30
30-445-01	30-455-01	1	2.89	6.94	3.50
30-446-01	30-456-01	1 1/4	3.01	8.29	5.10
30-447-01	30-457-01	1 1/2	3.05	9.28	6.80
30-448-01	30-458-01	2	3.08	11.37	9.60

Length is measured from end to end. Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.



# IRON GATE VALVES

## 610F SERIES *Apollo International*



### FEATURES:

Compatible with ANSI 125# & 150# Flanges  
Full Port  
Bronze Mounted Seat Rings  
Solid Wedge  
Adjustable Graphite Stem Packing  
Non-Rising Stem  
Bolted Bonnet  
Back Seat Protection

### STANDARDS:

**MSS SP-70**  
"Gray Iron Gate Valves Flanged and Threaded"  
**ASME B16.10**  
"Face-to-Face and End-to-End Dimensions of Valves"

### PERFORMANCE RATING:

**Saturated Steam:**  
125 psi (8.6 Bar) to 353°F (178°C) (2"-12")  
100 psi (6.9 Bar) to 338°F (170°C) (14"-24")  
**Cold Working Pressure:**  
200 psi (13.8 Bar) at 100°F (2"-12")  
150 psi (10.3 Bar) at 100°F (14"-24")

### Temperature Range:

-20°F to 406°F

### MATERIALS:

**Body, Bonnet & Wedge:** ASTM A126 CL-B, CI  
**Stem:** ASTM B16  
**Packing & Gasket:** Graphoil

## 620F SERIES *Apollo International*



### FEATURES:

Compatible with ANSI 250# & 300# Flanges  
Full Port  
Bronze Mounted Seat Rings  
Solid Wedge  
Adjustable Graphite Stem Packing  
Non-Rising Stem  
Flanged Connection  
Bolted Bonnet  
Rugged Iron Hand Wheel  
Back Seat Protection

### STANDARDS:

**MSS SP-70**  
"Gray Iron Gate Valves Flanged and Threaded"  
**ASME B16.10**  
"Face-to-Face and End-to-End Dimensions of Valves"

### PERFORMANCE RATING:

**Saturated Steam:** 250 psi (17.2 Bar) to 406°F (207°C)  
**Cold Working Pressure:** 500 psi (34.5 Bar) at 100°F  
**Temperature Range:** -20°F to 406°F

### MATERIALS:

**Body, Bonnet & Wedge:** ASTM A126 CL-B, CI  
**Stem:** ASTM B16  
**Packing & Gasket:** Graphoil

All dimensions are in inches and pounds.

### Class 125 FLANGED GATE VALVE

Part Number	NPS	Length	Height	Weight
6GA-108-B1	2	7.00	14.57	36.0
6GA-109-B1	2 1/2	7.50	16.34	48.0
6GA-100-B1	3	8.00	18.90	59.0
6GA-10A-B1	4	9.00	20.67	104.0
6GA-10B-B1	5	10.00	24.61	150.0
6GA-10C-B1	6	10.50	28.74	192.0
6GA-10E-B1	8	11.50	32.48	260.0
6GA-10G-B1	10	13.00	37.40	434.0
6GA-10H-B1	12	14.00	43.31	606.0
6GA-10J-B1	14	15.00	37.01	926.0
6GA-10K-B1	16	16.00	42.52	1098.0
6GA-10M-B1	18	17.00	46.46	1543.0
6GA-10N-B1	20	18.00	54.33	1638.0
6GA-10P-B1	24	20.00	57.48	2756.0

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

*NOTE: Flat face mating flanges and full face gaskets must be installed to avoid damage to the cast iron body.*

All dimensions are in inches and pounds.

### Class 250 FLANGED GATE VALVE

Part Number	NPS	Length	Height	Weight
6GA-208-B1	2	8.50	11.28	42.0
6GA-209-B1	2 1/2	9.50	12.72	55.0
6GA-200-B1	3	11.00	13.31	66.0
6GA-20A-B1	4	12.00	16.18	115.0
6GA-20C-B1	6	16.00	22.00	205.0
6GA-20E-B1	8	16.50	25.59	278.0
6GA-20G-B1	10	18.00	30.31	456.0
6GA-20H-B1	12	19.75	33.90	633.0

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

*NOTE: Class 250 flanges and flanged fittings have a 0.06 inch raised face in accordance with MSS SP-6.*



# IRON GATE VALVES

All dimensions are in inches and pounds.

## 611F SERIES *Apollo International*



### FEATURES:

Compatible with ANSI 125# & 150# Flanges  
Full Port  
Bronze Mounted Seat Rings  
Solid Wedge  
Adjustable Graphite Stem Packing  
Outside Screw and Yoke  
Bolted Bonnet  
Back Seat Protection

### STANDARDS:

**MSS SP-70**  
"Gray Iron Gate Valves Flanged and Threaded"  
**ASME B16.10**  
"Face-to-Face and End-to-End Dimensions of Valves"

### PERFORMANCE RATING:

**Saturated Steam:**  
125 psi (8.6 Bar) to 353°F (178°C) (2"-12")  
100 psi (6.9 Bar) to 338°F (170°C) (14"-24")  
**Cold Working Pressure:**  
200 psi (13.8 Bar) at 100°F (2"-12")  
150 psi (10.3 Bar) at 100°F (14"-24")

### Temperature Range:

-20°F to 406°F

### MATERIALS:

**Body, Bonnet & Wedge:** ASTM A126 CL-B, CI  
**Stem:** ASTM B16  
**Packing & Gasket:** Graphoil

### Class 125 FLANGED GATE VALVE

Part Number	NPS	Length	Height	Weight
6GA-118-B1	2	7.00	14.96	38.0
6GA-119-B1	2 1/2	7.50	16.93	51.0
6GA-110-B1	3	8.00	19.09	62.0
6GA-11A-B1	4	9.00	24.21	110.0
6GA-11B-B1	5	10.00	27.56	154.0
6GA-11C-B1	6	10.50	32.87	203.0
6GA-11E-B1	8	11.50	37.76	284.0
6GA-11G-B1	10	13.00	48.03	459.0
6GA-11H-B1	12	14.00	56.50	637.0
6GA-11J-B1	14	15.00	65.16	966.0
6GA-11K-B1	16	16.00	71.85	1135.0
6GA-11M-B1	18	17.00	79.53	1753.0
6GA-11N-B1	20	18.00	90.16	2238.0
6GA-11P-B1	24	20.00	132.28	3197.0

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

*NOTE: Flat face mating flanges and full face gaskets must be installed to avoid damage to the cast iron body.*

## 621F SERIES *Apollo International*



### FEATURES:

Compatible with ANSI 250# & 300# Flanges  
Full Port  
Bronze Mounted Seat Rings  
Solid Wedge  
Adjustable Graphite Stem Packing  
Outside Screw and Yoke  
Flanged Connection  
Bolted Bonnet  
Back Seat Protection

### STANDARDS:

**MSS SP-70**  
"Gray Iron Gate Valves Flanged and Threaded"  
**ASME B16.10**  
"Face-to-Face and End-to-End Dimensions of Valves"

### PERFORMANCE RATING:

**Saturated Steam:** 250 psi (17.2 Bar) to 406°F (207°C)  
**Cold Working Pressure:** 500 psi (34.5 Bar) at 100°F  
**Temperature Range:** -20°F to 406°F

### MATERIALS:

**Body, Bonnet & Wedge:** ASTM A126 CL-B, CI  
**Stem:** ASTM B16  
**Packing & Gasket:** Graphoil

All dimensions are in inches and pounds.

### Class 250 FLANGED GATE VALVE

Part Number	NPS	Length	Height	Weight
6GA-218-B1	2	8.50	14.96	44.0
6GA-219-B1	2 1/2	9.50	16.93	57.0
6GA-210-B1	3	11.12	19.09	71.0
6GA-21A-B1	4	12.00	24.21	121.0
6GA-21B-B1	5	15.00	27.56	165.0
6GA-21C-B1	6	15.88	32.87	216.0
6GA-21E-B1	8	16.50	39.76	302.0
6GA-21G-B1	10	18.00	48.03	481.0
6GA-21H-B1	12	19.75	56.50	642.0

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

*NOTE: Class 250 flanges and flanged fittings have a 0.06 inch raised face in accordance with MSS SP-6.*

# BRONZE GLOBE VALVES

All dimensions are in inches and pounds.

## 120S/120S-LF SERIES



### Features:

Threaded Bonnet  
PTFE Disc  
Solder Ends



### Body & Bonnet:

ASTM B62 Bronze

**Stem:** ASTM B371 Sil-Brz

**Disc:** PTFE

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

## 200 CWP GLOBE VALVE

Part Number	LEAD FREE Part Number	NPS	Length	Height	Weight
33-143-01	33LF-143-01	1/2	2.97	3.47	1.00
33-144-01	33LF-144-01	3/4	3.83	4.75	1.90
33-145-01	33LF-145-01	1	4.57	5.40	2.80
33-146-01	33LF-146-01	1 1/4	5.95	7.80	7.30
33-147-01	33LF-147-01	1 1/2	5.95	7.80	6.80
33-148-01	33LF-148-01	2	7.18	8.43	10.60

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

## 120T/120T-LF SERIES



### Features:

Threaded Bonnet  
PTFE Disc  
NPT



### Body & Bonnet:

ASTM B62 Bronze

**Stem:** ASTM B371 Sil-Brz

**Disc:** PTFE

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

## Class 125 (200 CWP, 125 SWP) GLOBE VALVE

Part Number	LEAD FREE Part Number	NPS	Length	Height	Weight
33-132-01	33LF-132-01	3/8	2.39	3.37	1.00
33-133-01	33LF-133-01	1/2	2.70	3.47	1.10
33-134-01	33LF-134-01	3/4	3.20	4.75	1.90
33-135-01	33LF-135-01	1	3.75	5.40	3.00
33-136-01	33LF-136-01	1 1/4	4.74	7.78	7.30
33-137-01	33LF-137-01	1 1/2	4.74	7.78	7.00
33-138-01	33LF-138-01	2	5.72	8.43	10.70

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

## 121T/121T-LF SERIES



### Features:

Threaded Bonnet  
Bronze Disc  
NPT



### Body & Bonnet:

ASTM B62 Bronze

**LF** = ASTM B584-C89836

**Stem:** ASTM B371 Sil-Brz

**Disc:** ASTM B505 Brz

**LF** = C27451 Brz

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

## Class 125 (200 CWP, 125 SWP) GLOBE VALVE

Part Number	LEAD FREE Part Number	NPS	Length	Height	Weight
33-161-01	33LF-161-01	1/4	2.39	3.46	1.00
33-162-01	33LF-162-01	3/8	2.39	3.46	1.00
33-163-01	33LF-163-01	1/2	2.70	3.56	1.10
33-164-01	33LF-164-01	3/4	3.20	4.75	1.90
33-165-01	33LF-165-01	1	3.75	5.40	3.00
33-166-01	33LF-166-01	1 1/4	4.74	7.78	7.30
33-167-01	33LF-167-01	1 1/2	4.74	7.78	7.00
33-168-01	33LF-168-01	2	5.72	8.43	11.00

Length is measured from end to end. Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.



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Customer Service (704) 841-6000

# BRONZE GLOBE VALVES

## 122T SERIES



**Features:**

Union Bonnet  
PTFE Disc  
NPT

**Body & Bonnet:**

ASTM B62 Bronze

**Stem:** ASTM B371 Sil-Brz

**Disc:** PTFE

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

All dimensions are in inches and pounds.

### Class 150 (300 CWP, 150 SWP) GLOBE VALVE

Part Number	NPS	Length	Height	Weight
33-221-01	1/4	2.39	4.23	1.40
33-222-01	3/8	2.39	4.23	1.40
33-223-01	1/2	2.70	4.31	1.40
33-224-01	3/4	3.20	4.89	2.20
33-225-01	1	3.75	5.40	3.50
33-226-01	1 1/4	4.74	7.79	7.70
33-227-01	1 1/2	4.74	7.79	7.40
33-228-01	2	5.20	8.76	12.40
33-229-01	2 1/2	6.60	10.07	18.80
33-220-01	3	7.74	11.39	25.50

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

## 127T SERIES



**Features:**

Union Bonnet  
Bronze Disc and Seat  
NPT

**Body & Bonnet:**

ASTM B61 Bronze

**Stem:** ASTM B371 Sil-Brz

**Disc:** ASTM B61 Bronze

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

All dimensions are in inches and pounds.

### Class 300 (1000 CWP, 300 SWP) GLOBE VALVE

Part Number	NPS	Length	Height	Weight
33-663-01	1/2	2.70	5.40	1.78
33-664-01	3/4	3.20	5.86	2.28
33-665-01	1	4.00	6.71	4.22
33-666-01	1 1/4	5.25	8.50	8.30
33-667-01	1 1/2	5.25	8.50	8.10
33-668-01	2	6.25	9.75	13.00

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

## 128T SERIES



**Features:**

Union Bonnet  
Stainless Steel Disc and Seat  
NPT

**Body & Bonnet:**

ASTM B61 Bronze

**Stem:** ASTM B371 Sil-Brz

**Disc and Seat:** ASTM A276-420 SS

**Packing:** Graphoil

**Hand Wheel:** Malleable Iron

All dimensions are in inches and pounds.

### Class 300 (1000 CWP, 300 SWP) GLOBE VALVE

Part Number	NPS	Length	Height	Weight
33-743-01	1/2	2.70	5.40	1.78
33-744-01	3/4	3.20	5.86	2.28
33-745-01	1	4.00	6.71	4.22
33-746-01	1 1/4	5.25	8.50	8.30
33-747-01	1 1/2	5.25	8.50	8.10
33-748-01	2	6.25	9.75	13.00

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.



# IRON GLOBE VALVES

## 711F SERIES *Apollo International*



### FEATURES:

Compatible with ANSI 125# & 150# Flanges  
Full Port  
Bronze Mounted Seat Rings  
Positive Shut-Off  
Throttling Capabilities  
Adjustable Graphite Stem Packing  
Outside Screw and Yoke  
Bolted Bonnet  
Back Seat Protection

### STANDARDS:

MSS SP-85  
"Gray Iron Globe & Angle Valves Flanged & Threaded Ends"  
ASME B16.10  
"Face-to-Face and End-to-End Dimensions of Valves"

### PERFORMANCE RATING:

**Saturated Steam:** 125 psi (8.6 Bar) to 353°F (178°C)  
**Cold Working Pressure:** 200 psi (13.8 Bar) at 100° F  
**Temperature Range:** -20°F to 406°F

### MATERIALS:

**Body, Bonnet & Disc:** ASTM A126 CL-B, CI  
**Stem:** ASTM B16  
**Packing & Gasket:** Graphite

All dimensions are in inches and pounds.

### Class 125 FLANGED GLOBE VALVE

Part Number	NPS	Length	Height	Weight
6GB-118-B1	2	8.00	11.61	36.0
6GB-119-B1	2 1/2	8.50	12.99	49.0
6GB-110-B1	3	9.50	14.37	64.0
6GB-11A-B1	4	11.50	15.75	94.0
6GB-11B-B1	5	13.00	17.72	137.0
6GB-11C-B1	6	14.00	20.67	195.0
6GB-11E-B1	8	19.50	23.43	315.0
6GB-11G-B1	10	24.50	26.97	485.0

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

*NOTE: Flat face mating flanges and full face gaskets must be installed to avoid damage to the cast iron body.*

## 721F SERIES *Apollo International*



### FEATURES:

Compatible with ANSI 250# & 300# Flanges  
Full Port  
Bronze Mounted Seat Rings  
Positive Shut-Off  
Throttling Capabilities  
Adjustable Graphite Stem Packing  
Outside Screw and Yoke  
Flanged Connection  
Bolted Bonnet  
Rugged Iron Hand Wheel  
Back Seat Protection

### STANDARDS:

MSS SP-85  
"Gray Iron Globe & Angle Valves Flanged & Threaded Ends"  
ASME B16.10  
"Face-to-Face and End-to-End Dimensions of Valves"

### PERFORMANCE RATING:

**Saturated Steam:** 250 psi (17.2 Bar) to 406°F (207°C)  
**Cold Working Pressure:** 500 psi (34.5 Bar) at 100° F  
**Temperature Range:** -20°F to 406°F

### MATERIALS:

**Body, Bonnet & Disc:** ASTM A126 CL-B, CI  
**Stem:** ASTM B16  
**Packing & Gasket:** Graphite

All dimensions are in inches and pounds.

### Class 250 FLANGED GLOBE VALVE

Part Number	NPS	Length	Height	Weight
6GB-218-B1	2	10.50	14.17	40.8
6GB-219-B1	2 1/2	11.50	15.75	52.9
6GB-210-B1	3	12.50	16.93	70.5
6GB-21A-B1	4	14.00	18.90	99.2
6GB-21C-B1	6	17.50	23.62	202.8
6GB-21E-B1	8	21.00	27.56	332.9

Length is measured from end to end.  
Height is measured from centerline to top of wheel in full open position.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

*NOTE: Class 250 flanges and flanged fittings have a 0.06 inch raised face in accordance with MSS SP-6.*



# BRONZE SWING CHECK VALVES

All dimensions are in inches and pounds.

## 161S/161S-LF SERIES



**Features:**

Y-Pattern  
Bronze Disc  
Solder Ends



**Body & Cap:**

ASTM B62 Bronze  
LF = ASTM B584-C89836

**Hanger:** SS for 1/2", 3/4" & 1",  
or B62 on 1 1/4" to 3"

LF - Stainless

**Pin:** Stainless Steel

**Seat:** ASTM B62 Bronze

LF - ASTM B584-C89836

**Plug:** Brass (ASTM B16)

## 200 CWP SWING CHECK

Part Number	LEAD FREE Part Number	NPS	Length	Height	Weight
61Y-093-01	61YLF-093-01	1/2	2.53	1.65	0.62
61Y-094-01	61YLF-094-01	3/4	3.36	1.90	0.91
61Y-095-01	61YLF-095-01	1	4.07	2.26	1.70
61Y-096-01	61YLF-096-01	1 1/4	4.68	2.65	2.00
61Y-097-01	61YLF-097-01	1 1/2	5.28	2.99	2.70
61Y-098-01	61YLF-098-01	2	6.50	3.74	4.90
61Y-099-01	not available	2 1/2	8.30	5.11	9.70
61Y-090-01	not available	3	9.58	6.05	15.00

Height is measured from centerline to top of unit.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

## 161T/161T-LF SERIES



**Features:**

Y-Pattern  
Bronze Disc  
NPT



**Body & Cap:**

ASTM B62 Bronze  
LF = ASTM B584-C89836

**Hanger:** SS for 1/2", 3/4" & 1",  
or B62 on 1 1/4" to 3"

LF - Stainless

**Pin:** Stainless Steel

**Seat:**

ASTM B62 Bronze  
LF - ASTM B584-C89836

**Plug:** Brass (ASTM B16)

## Class 125 (200 CWP, 125 SWP) SWING CHECK

Part Number	LEAD FREE Part Number	NPS	Length	Height	Weight
61Y-191-01	61YLF-191-01	1/4	2.14	1.51	0.64
61Y-192-01	61YLF-192-01	3/8	2.14	1.51	0.62
61Y-193-01	61YLF-193-01	1/2	2.48	1.65	0.73
61Y-194-01	61YLF-194-01	3/4	2.94	1.90	1.06
61Y-195-01	61YLF-195-01	1	3.57	2.26	1.70
61Y-196-01	61YLF-196-01	1 1/4	4.50	2.99	3.30
61Y-197-01	61YLF-197-01	1 1/2	4.50	2.99	3.10
61Y-198-01	61YLF-198-01	2	5.25	3.74	5.50
61Y-199-01	not available	2 1/2	8.00	5.11	11.70
61Y-190-01	not available	3	9.24	6.05	17.80

Height is measured from centerline to top of unit.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

## 162T SERIES



**Features:**

Y-Pattern  
Viton® Disc  
NPT

**Body & Cap:**

ASTM B62 Bronze

**Hanger:** SS for 1/2", 3/4" & 1",  
or B62 on 1 1/4" to 2"

**Pin:** Stainless Steel

**Seat:** Viton®

**Plug:** Brass (ASTM B16)

## Class 125 (200 CWP, 125 SWP) SWING CHECK

Part Number	NPS	Length	Height	Weight
61Y-201-V1	1/4	2.14	1.51	0.64
61Y-202-V1	3/8	2.14	1.51	0.62
61Y-203-V1	1/2	2.48	1.65	0.73
61Y-204-V1	3/4	2.94	1.90	1.06
61Y-205-V1	1	3.57	2.26	1.70
61Y-206-V1	1 1/4	4.50	2.99	3.30
61Y-207-V1	1 1/2	4.50	2.99	3.10
61Y-208-V1	2	5.25	3.74	5.40

Height is measured from centerline to top of unit.  
For Flow Coefficients (C<sub>v</sub>) see page 17.



# BRONZE SWING CHECK VALVES

All dimensions are in inches and pounds.

## 163S/163S-LF SERIES



**Features:**  
Y-Pattern  
PTFE Disc  
Solder



**Body & Cap:**  
ASTM B62 Bronze  
**LF** = ASTM B584-C89836

**Hanger:** SS for 1/2", 3/4" & 1",  
or B62 on 1 1/4" to 2"  
**LF** - Stainless

**Pin:** Stainless Steel

**Seat:** PTFE

**Plug:** Brass (ASTM B16)

## 200 CWP SWING CHECK

Part Number	LEAD FREE Part Number	NPS	Length	Height	Weight
61Y-103-T1	61YLF-103-T1	1/2	2.53	1.65	0.62
61Y-104-T1	61YLF-104-T1	3/4	3.36	1.90	0.91
61Y-105-T1	61YLF-105-T1	1	4.07	2.26	1.70
61Y-106-T1	61YLF-106-T1	1 1/4	5.28	2.99	3.20
61Y-107-T1	61YLF-107-T1	1 1/2	5.28	2.99	2.70
61Y-108-T1	61YLF-108-T1	2	6.50	3.74	4.90

Height is measured from centerline to top of unit.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

## 163T/163T-LF SERIES



**Features:**  
Y-Pattern  
PTFE Disc  
NPT



**Body & Cap:**  
ASTM B62 Bronze  
**LF** = ASTM B584-C89836

**Hanger:** SS for 1/2", 3/4" & 1",  
or B62 on 1 1/4" to 2"  
**LF** - Stainless

**Pin:** Stainless Steel

**Seat:** PTFE

**Plug:** Brass (ASTM B16)

## Class 125 (200 CWP, 125 SWP) SWING CHECK

Part Number	LEAD FREE Part Number	NPS	Length	Height	Weight
61Y-201-T1	not available	1/4	2.14	1.51	0.64
61Y-202-T1	not available	3/8	2.15	1.51	0.62
61Y-203-T1	61YLF-203-T1	1/2	2.48	1.65	0.73
61Y-204-T1	61YLF-204-T1	3/4	2.94	1.90	1.06
61Y-205-T1	61YLF-205-T1	1	3.57	2.26	1.70
61Y-206-T1	61YLF-206-T1	1 1/4	4.50	2.99	3.30
61Y-207-T1	61YLF-207-T1	1 1/2	4.50	2.99	3.10
61Y-208-T1	61YLF-208-T1	2	5.25	3.74	5.40

Height is measured from centerline to top of unit.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

## 164T SERIES



**Features:**  
Y-Pattern  
Bronze Disc  
NPT

**Body & Cap:**  
ASTM B62 Bronze

**Hanger:** SS for 1/2", 3/4" & 1",  
or B62 on 1 1/4" to 3"

**Pin:** Stainless Steel

**Seat:** ASTM B62 BRONZE

**Plug:** Brass (ASTM B16)

## Class 150 (300 CWP, 150 SWP) SWING CHECK

Part Number	NPS	Length	Height	Weight
61Y-211-01	1/4	2.14	1.51	0.64
61Y-212-01	3/8	2.14	1.51	0.62
61Y-213-01	1/2	2.48	1.65	0.73
61Y-214-01	3/4	2.94	1.90	1.06
61Y-215-01	1	3.57	2.26	1.70
61Y-216-01	1 1/4	4.50	2.99	3.30
61Y-217-01	1 1/2	4.50	2.99	3.10
61Y-218-01	2	5.25	3.74	5.50
61Y-219-01	2 1/2	8.00	5.11	11.70
61Y-210-01	3	9.24	6.05	17.80

Height is measured from centerline to top of unit.  
For Flow Coefficients (C<sub>v</sub>) see page 17.



For additional information, submittal sheets and manuals, visit [www.apollovalves.com](http://www.apollovalves.com)

Customer Service (704) 841-6000

# BRONZE SWING CHECK VALVES

## 168T SERIES



**Features:**

Y-Pattern  
Bronze Disc  
NPT

**Body & Cap:**

ASTM B61 Bronze

**Hanger:** SS for 1/2", 3/4" & 1",  
or B62 on 1 1/4" to 2"

**Pin:** Stainless Steel

**Seat:** ASTM B61 BRONZE

**Plug:** Brass (ASTM B16)

All dimensions are in inches and pounds.

### Class 300 (600 CWP, 300 SWP) SWING CHECK

Part Number	NPS	Length	Height	Weight
61Y-753-01	1/2	2.50	1.65	.75
61Y-754-01	3/4	2.95	1.90	1.20
61Y-755-01	1	3.57	2.27	1.80
61Y-756-01	1 1/4	4.50	3.00	3.50
61Y-757-01	1 1/2	4.50	3.00	3.20
61Y-758-01	2	5.25	3.75	5.60

Height is measured from centerline to top of unit.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

## 169T SERIES



**Features:**

Y-Pattern  
PTFE Disc  
NPT

**Body & Cap:**

ASTM B61 Bronze

**Hanger:** SS for 1/2", 3/4" & 1",  
or B62 on 1 1/4" to 3"

**Pin:** Stainless Steel

**Seat:** PTFE

**Plug:** Brass (ASTM B16)

All dimensions are in inches and pounds.

### Class 300 (600 CWP) SWING CHECK

Part Number	NPS	Length	Height	Weight
61Y-753-T1	1/2	2.5	1.65	.75
61Y-754-T1	3/4	2.95	1.90	1.20
61Y-755-T1	1	3.57	2.27	1.80
61Y-756-T1	1 1/4	4.50	3.00	3.50
61Y-757-T1	1 1/2	4.50	3.00	3.20
61Y-758-T1	2	5.25	3.75	5.60

Height is measured from centerline to top of unit.  
For Flow Coefficients (C<sub>v</sub>) see page 17.



# IRON SWING CHECK VALVES

## 910F SERIES *Apollo International*



### FEATURES:

Compatible with ANSI 125# & 150# Flanges  
Full Port  
Minimal Pressure Drop  
Bolted Bonnet  
Integral Bronze Seat

### STANDARDS:

MSS SP-71  
"Gray Iron Swing Check Valves Flanged and Threaded"  
ASME B16.10  
"Face-to-Face and End-to-End Dimensions of Valves"

### PERFORMANCE RATING:

**Saturated Steam:**  
125 psi (8.6 Bar) to 353°F (178°C) (2"-12")  
100 psi (6.9 Bar) to 338°F (170°C) (14"-20")  
**Cold Working Pressure:**  
200 psi (13.8 Bar) at 100°F (2"-12")  
150 psi (10.3 Bar) at 100°F (14"-20")

### Temperature Range:

-20°F to 406°F

### MATERIALS:

**Body, Cover & Disc:** ASTM A126 CL-B, CI  
**Seat & Disc Ring:** ASTM B62 Bronze (2"-6") ASTM A126 CL-B, (8"-20")  
**Gasket:** Graphoil

All dimensions are in inches and pounds.

### Class 125 FLANGED SWING CHECK

Part Number	NPS	Length	Height	Weight
6SC-108-B1	2	8.00	4.41	26.0
6SC-109-B1	2 1/2	8.50	5.24	39.0
6SC-100-B1	3	9.50	5.67	47.0
6SC-10A-B1	4	11.50	6.61	82.0
6SC-10B-B1	5	13.00	7.80	124.0
6SC-10C-B1	6	14.00	8.54	160.0
6SC-10E-01	8	19.50	10.28	271.0
6SC-10G-01	10	24.50	11.30	437.0
6SC-10H-01	12	27.50	12.56	644.0
6SC-10J-01	14	31.00	17.50	950.0
6SC-10K-01	16	36.00	23.45	1160.0
6SC-10M-01	18	36.00	27.50	1720.0
6SC-10N-01	20	40.00	29.25	2094.0

Height is measured from centerline to top of unit.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

*NOTE: Flat face mating flanges and full face gaskets must be installed to avoid damage to the cast iron body.*

## 910FLW SERIES *Apollo International*



### FEATURES:

Compatible with ANSI 125# & 150# Flanges  
Full Port  
Minimal Pressure Drop  
Bolted Bonnet  
Integral Seat  
Lever and Weight Design

### STANDARDS:

MSS SP-71  
"Gray Iron Swing Check Valves Flanged & Threaded"  
ASME B16.10  
"Face-to-Face and End-to-End Dimensions of Valves"

### PERFORMANCE RATING:

**Saturated Steam:** 125 psi (8.6 Bar) to 353°F  
**Cold Working Pressure:** 200 psi (13.8 Bar) at 100°F  
**Temperature Range:** -20°F to 406°F

### MATERIALS:

**Body, Cover & Disc:** ASTM A126 CL-B, CI  
**Seat & Disc Ring:** ASTM B62 Bronze (2"-6") ASTM A126 CL-B, (8"-12")  
**Packing & Gasket:** Graphoil

All dimensions are in inches and pounds.

### Class 125 FLANGED SWING CHECK

Part Number	NPS	Length	Height	Weight
6SC-108-B1L	2	8.00	4.41	38.8
6SC-109-B1L	2 1/2	8.50	5.24	45.2
6SC-100-B1L	3	9.50	5.67	61.7
6SC-10A-B1L	4	11.50	6.61	99.2
6SC-10B-B1L	5	13.00	7.80	132.3
6SC-10C-B1L	6	14.00	8.54	169.8
6SC-10E-01L	8	19.50	10.28	282.2
6SC-10G-01L	10	24.50	11.30	438.7
6SC-10H-01L	12	27.50	12.56	672.4

Height is measured from centerline to top of unit.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

*NOTE: Flat face mating flanges and full face gaskets must be installed to avoid damage to the cast iron body.*



# IRON SWING CHECK VALVES

## 920F SERIES *Apollo International*



### FEATURES:

Compatible with ANSI 250# & 300# Flanges  
Full Port  
Minimal Pressure Drop  
Bolted Bonnet  
Integral Seat

### STANDARDS:

MSS SP-71  
"Gray Iron Swing Check Valves Flanged and Threaded"  
ASME B16.10  
"Face-to-Face and End-to-End Dimensions of Valves"

### PERFORMANCE RATING:

Saturated Steam: 250 psi (17.2 Bar) to 406°F  
Cold Working Pressure: 500 psi (34.5 Bar) at 100°F  
Temperature Range: -20°F to 406°F

### MATERIALS:

Body, Cover & Disc: ASTM A126 CL-B, CI  
Seat & Disc Ring: ASTM B62 (2"-6") & ASTM A126 CL-B, CI (8")  
Gasket: Graphoil

All dimensions are in inches and pounds.

### Class 250 FLANGED SWING CHECK

Part Number	NPS	Length	Height	Weight
6SC-208-B1	2	10.51	4.41	30.0
6SC-209-B1	2 1/2	11.50	5.24	44.0
6SC-200-B1	3	12.50	5.67	55.0
6SC-20A-B1	4	14.00	6.61	90.0
6SC-20C-B1	6	17.50	8.54	172.0
6SC-20E-01	8	21.00	10.28	289.0

Height is measured from centerline to top of unit.  
For Flow Coefficients (C<sub>v</sub>) see page 17.

NOTE: Class 250 flanges and flanged fittings have a 0.06 inch raised face in accordance with MSS SP-6.

# IRON WAFER CHECKS

## 910WB SERIES *Apollo International*



### FEATURES:

Compatible with ANSI 125# & 150# Flanges  
Full Port  
Minimal Pressure Drop  
Light Weight  
Spring Assisted Closing for Quicker Response

### PERFORMANCE RATING:

Cold Working Pressure:  
200 psi (13.8 Bar) at 100°F (2"-12")  
150 psi (10.3 Bar) at 100°F (14"-24")  
Temperature Range:  
10°F to 180°F

### MATERIALS:

Body: ASTM A126 CL-B, CI  
Disc: Aluminum Bronze  
Seat: Nitrile (Buna-N)

All dimensions are in inches and pounds.

### Class 125 WAFER CHECK - Nitrile (Buna-N)

Part Number	NPS	Length	Height	Weight
6WC-108-N1	2	2.21	4.00	5.0
6WC-109-N1	2 1/2	2.38	4.75	7.0
6WC-100-N1	3	2.62	5.25	10.0
6WC-10A-N1	4	2.62	6.75	12.0
6WC-10B-N1	5	3.25	7.50	15.0
6WC-10C-N1	6	3.75	8.50	22.0
6WC-10E-N1	8	5.00	11.00	35.0
6WC-10G-N1	10	5.50	13.25	66.0
6WC-10H-N1	12	7.12	16.00	108.0
6WC-10J-N1	14	7.25	17.75	172.0
6WC-10K-N1	16	7.50	20.00	132.0
6WC-10M-N1	18	8.00	21.50	223.0
6WC-10N-N1	20	8.38	23.75	333.0
6WC-10P-N1	24	8.75	28.00	474.0

For Flow Coefficients (C<sub>v</sub>) see page 17.

# IRON WAFER CHECKS

All dimensions are in inches and pounds.

## 910WE SERIES *Apollo International*



### FEATURES:

Compatible with ANSI 125# & 150# Flanges  
 Full Port  
 Minimal Pressure Drop  
 Light Weight  
 Spring Assisted Closing for Quicker Response

### PERFORMANCE RATING:

**Saturated Steam:** 125 psi (8.6 Bar) to 353°F (178°C)  
**Cold Working Pressure:** 200 psi (13.8 Bar) at 100°F  
**Temperature Range:** -30°F to 275°F

*NOTE: The maximum saturated steam working pressure (SWP) for soft seated valves is determined by the limits of the non-metallic materials.*

### MATERIALS:

**Body:** ASTM A126 CL-B, CI  
**Disc:** Aluminum Bronze  
**Seat:** EPDM

### Class 125 WAFER CHECK - EPDM

Part Number	NPS	Length	Height	Weight
6WC-108-E1	2	2.12	4.00	5.0
6WC-109-E1	2 1/2	2.38	4.75	7.0
6WC-100-E1	3	2.62	5.25	10.0
6WC-10A-E1	4	2.62	6.75	12.0
6WC-10B-E1	5	3.25	7.50	15.0
6WC-10C-E1	6	3.75	8.50	22.0
6WC-10E-E1	8	5.00	11.00	35.0
6WC-10G-E1	10	5.50	13.25	66.0
6WC-10H-E1	12	7.12	16.00	108.0

For Flow Coefficients (C<sub>v</sub>) see chart below.

## C<sub>v</sub> COEFFICIENTS – For Flow Estimation Only

Size	Bronze Gate	Bronze Globe	Bronze Swing Check	CI Gate	CI Globe	CI Swing Check	CI Wafer Check
1/4	3.0	1.4	2.6				
3/8	6.0	2.6	4.5				
1/2	12.5	4.4	7.0				
3/4	24.0	7.4	12.0				
1	72.3	12.1	28.6				
1-1/4	80	29	39				
1-1/2	119	30	56				
2	338	49	152	328	52	132	75
2-1/2	395	74	198	482	76	192	95
3	435	112	242	744	116	298	191
4				1316	204	526	377
5				2130	328	852	483
6				3176	488	1272	821
8				5692	874	2278	1590
10				8972	1376	3588	2920
12				13352		5342	4470
14				16278		6512	5870
16				21564		8626	8690
18				28716		11488	10940
20				35762		14304	14290
24				52166			23000

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