



GATE, GLOBE & CHECK CATALOG

LEAD FREE
Options Available



**NEW
CLASS
300#**



MULTI-TURN takes a **new** turn

Introduction

Apollo Valves is proud to introduce our new line of multi-turn cast bronze gate, globe and check valves. Suitable for a wide range of applications including HVAC systems, potable water, irrigation and OEM, these valves are an ideal complement to our existing family of commercial products including ball valves, butterfly valves, backflow preventers and pressure reducing valves.

Proudly **Made in the USA**, our new line of bronze multi turn valves are cast, machined, assembled and 100% tested in our foundry and assembly plants in Pageland, South Carolina.

Apollo Valves – committed to **quality, innovation** and **service** since 1928.



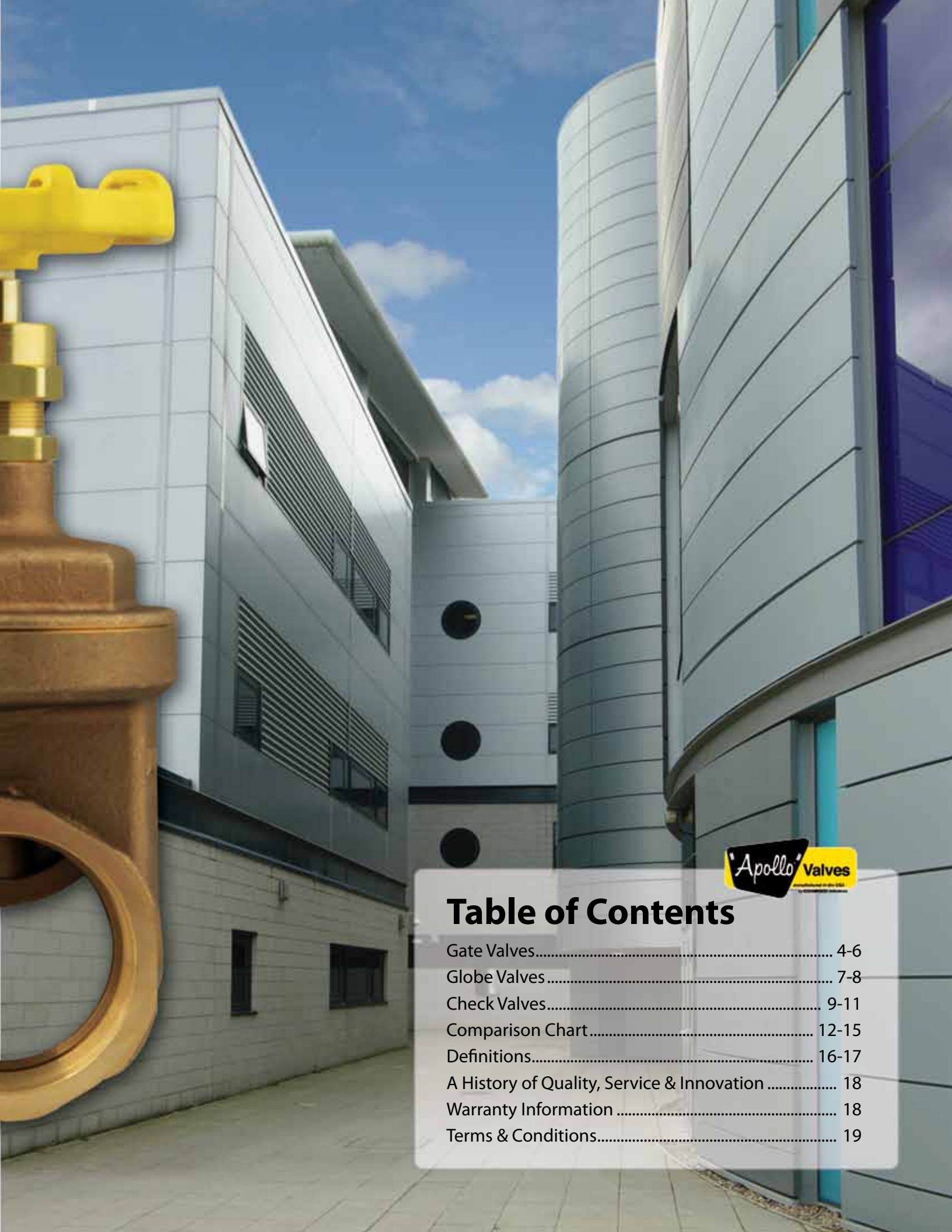


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GATE VALVES

101S/101S-LF SERIES

NEW



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	2.03	4.85	1.00
30-084-01	30LF-084-01	3/4	2.07	5.71	1.30
30-085-01	30LF-085-01	1	2.45	6.71	2.20
30-086-01	30LF-086-01	1 1/4	2.63	8.10	3.20
30-087-01	30LF-087-01	1 1/2	2.88	9.08	4.40
30-088-01	30LF-088-01	2	3.06	11.28	7.00
30-089-01	30LF-089-01	2 1/2	4.13	14.58	13.80
30-080-01	30LF-080-01	3	4.48	19.07	17.70

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

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



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

All dimensions are in inches and pounds.

102T-K SERIES



Features:

Threaded Bonnet
Solid Disc
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

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



for additional information, submittal sheets and manuals, visit www.apollovalves.com

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GATE VALVES

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

All dimensions are in inches and pounds.

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

107T SERIES



Features:
Union Bonnet
Solid Disc
Rising Stem

Body, Bonnet & Wedge:
ASTM B62 Bronze

Stem: ASTM B371 Sil-Brz

Packing: Graphoil

Hand Wheel: Malleable Iron

All dimensions are in inches and pounds.

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

111T SERIES



Features:
Union Bonnet
Solid Disc
Rising Stem
NPT

Body, Bonnet & Wedge:
ASTM B61 Bronze

Stem: ASTM B371 Sil-Brz

Packing: Graphoil

Hand Wheel: Malleable Iron

All dimensions are in inches and pounds.

Class 300 (1000 CWP, 300 SWP) GATE VALVE

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



GLOBE VALVES

120S SERIES



Features:

Threaded Bonnet
PTFE Disc
Solder Ends

Body, Bonnet & Wedge:

ASTM B62 Bronze

Stem: ASTM B371 Sil-Brz

Disc: PTFE

Packing: Graphoil

Hand Wheel: Malleable Iron

All dimensions are in inches and pounds.

200 CWP GLOBE VALVE

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

120T SERIES



Features:

Threaded Bonnet
PTFE Disc
Solder Ends
NPT

Body, Bonnet & Wedge:

ASTM B62 Bronze

Stem: ASTM B371 Sil-Brz

Disc: PTFE

Packing: Graphoil

Hand Wheel: Malleable Iron

All dimensions are in inches and pounds.

Class 125 (200 CWP, 125 SWP) GLOBE VALVE

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

121T/121T-LF SERIES



Features:

Threaded Bonnet
Bronze Disc
NPT

Body, Bonnet & Wedge:

ASTM B62 Bronze

LF = ASTM B584-C89836

Stem: ASTM B371 Sil-Brz

Disc: ASTM B505

Packing: Graphoil

Hand Wheel: Malleable Iron



All dimensions are in inches and pounds.

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



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GLOBE VALVES

122T SERIES



Features:

Union Bonnet
PTFE Disc
NPT

Body, Bonnet & Wedge:

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

127T SERIES

NEW



Features:

Union Bonnet
Bronze Disc and Seat
NPT

Body, Bonnet & Wedge:

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



SWING CHECK VALVES

161S/161S-LF SERIES



Features:

Y-Pattern
Bronze Disc
Solder Ends



Body & Cap:

ASTM B62 Bronze
LF = ASTM B584-C89836

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

LF - Stainless

Seat: ASTM B62 Bronze

LF - ASTM B584-C89836

Plug: Brass

All dimensions are in inches and pounds.

200 CWP SWING CHECK

Part Number	LEAD FREE	NPS	Length	Height	Weight
	Part Number				
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

161T/161T-LF SERIES



Features:

Y-Pattern
Bronze Disc
NPT



Body & Cap:

ASTM B62 Bronze
LF = ASTM B584-C89836

Hanger & Pin: Stainless

Seat:

ASTM B62 Bronze
LF - ASTM B584-C89836

Plug: Brass

All dimensions are in inches and pounds.

Class 125 (200 CWP, 125 SWP) SWING CHECK

Part Number	LEAD FREE	NPS	Length	Height	Weight
	Part Number				
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

162T SERIES



Features:

Y-Pattern
Viton® Disc
NPT

Body & Cap:

ASTM B62 Bronze

Hanger & Pin: Stainless

Seat: Viton®

Plug: Brass

All dimensions are in inches and pounds.

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



for additional information, submittal sheets and manuals, visit www.apollovalves.com

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SWING CHECK VALVES

163T/163T-LF SERIES



Features:

Y-Pattern
PTFE Disc
NPT



Body & Cap:

ASTM B62 Bronze
LF = ASTM B584-C89836

Hanger & Pin: Stainless

Seat: PTFE

Plug: Brass

Class 125 (200 CWP, 125 SWP) SWING CHECK

Part Number	LEAD FREE Part Number	NPS	Length	Height	Weight
61Y-201-T1	61YLF-201-T1	1/4	2.14	1.51	0.64
61Y-202-T1	61YLF-202-T1	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

All dimensions are in inches and pounds.

164T SERIES



Features:

Y-Pattern
Bronze Disc
NPT

Body & Cap:

ASTM B62 Bronze

Hanger & Pin: Stainless

Seat: ASTM B62 BRONZE

Plug: Brass

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

All dimensions are in inches and pounds.

168T SERIES

NEW



Features:

Y-Pattern
Bronze Disc
NPT

Body & Cap:

ASTM B61 Bronze

Hanger & Pin: Stainless

Seat: ASTM B61 BRONZE

Plug: Brass

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

All dimensions are in inches and pounds.



SWING CHECK VALVES

169T SERIES

NEW



Features:

Y-Pattern
PTFE Disc
NPT

Body & Cap:

ASTM B61 Bronze

Hanger & Pin: Stainless

Seat: PTFE

Plug: Brass

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



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BRONZE CROSS REFERENCE CHART

BRONZE GATE VALVES	Apollo Model	101S	101S-LF	101T	101T-LF	102S	
	Apollo P/N	30-08X-01	30LF-08X-01	30-00X-01	30LF-00X-01	30-04X-01	
	Size Range	1/2" to 3"	1/2" to 3"	1/4" to 3"	1/4" to 3"	1/2" to 3"	
	Description	200 CWP Gate Valve Bronze Threaded Bonnet Solid Disc Rising Stem Solder Ends	200 CWP Gate Valve LF-Bronze Threaded Bonnet Solid Disc Rising Stem Solder Ends	Class 125 (200 CWP, 125 SWP) Gate Valve Bronze Threaded Bonnet Solid Disc Rising Stem NPT	Class 125 (200 CWP, 125 SWP) Gate Valve LF-Bronze Threaded Bonnet Solid Disc Rising Stem NPT	200 CWP Gate Valve Bronze Threaded Bonnet Solid Disc NRS Solder Ends	
	Design Standard	MSS SP-80	MSS SP-139	MSS SP-80	MSS SP-139	MSS SP-80	
	Crane Model	1334		428		1320	
	Hammond Model	IB635		IB640		IB647	
	Kitz Model	444		24		41	
	Milwaukee Model	149	UP149	148	UP148	115	
	Nibco Model	S111		T111		S113	
	Stockham Model	B108K		B100K		B104K	
	Walworth Model	55SJ		55		4SJ	

BRONZE CHECK VALVES	Apollo Model	161S	161S-LF	161T	161T-LF	162T	
	Apollo P/N	61Y-09X-01	61YLF-09X-01	61Y-19X-01	61YLF-19X-01	61Y-20X-VI	
	Size Range	1/2" to 3"	1/2" to 2"	1/4" to 3"	1/4" to 2"	1/4" to 2"	
	Description	200 CWP Swing Check Bronze Y-Pattern Bronze Disc Solder Ends	200 CWP Swing Check LF-Bronze Y-Pattern Bronze Disc Solder Ends	Class 125 (200 CWP, 125 SWP) Swing Check Bronze Y-Pattern Bronze Disc NPT	Class 125 (200 CWP) Swing Check LF-Bronze Y-Pattern Bronze Disc NPT	Class 125 (200 CWP, 125 SWP) Swing Check Bronze Y-Pattern Viton® Disc NPT	
	Design Standard	MSS SP-80	MSS SP-139	MSS SP-80	MSS SP-139	MSS SP-80	
	Crane Model	1340		37			
	Hammond Model	IB912		IB904			
	Kitz Model			22			
	Milwaukee Model	1509	UP1509	509	UP509		
	Nibco Model	S413B		T413B		T413V	
	Stockham Model	B309YK		B319YK		B320BYK	
	Walworth Model	3406SJ		3406			



BRONZE CROSS REFERENCE CHART

	102S-LF	102T	102T-LF	102T-K	103T	106T	107T	111T	BRONZE GATE VALVES
	30LF-04X-01	30-03X-01	30LF-03X-01	30-03X-01K	30-05X-01	30-28X-01	30-20X-01	30-44X-01	
	1/2" to 3"	1/4" to 3"	1/4" to 3"	1/4" to 3"	1/4" to 3"	1/4" to 3"	1/4" to 3"	1/2" to 2"	
	200 CWP Gate Valve LF-Bronze Threaded Bonnet Solid Disc NRS Solder Ends	Class 125 (200 CWP, 125 SWP) Gate Valve Bronze Threaded Bonnet Solid Disc NRS NPT	Class 125 (200 CWP, 125 SWP) Gate Valve LF-Bronze Threaded Bonnet Solid Disc NRS NPT	Class 125 (200 CWP, 125 SWP) Gate Valve Bronze Threaded Bonnet Solid Disc NRS NPT	Class 125 (200 CWP, 125 SWP) Gate Valve Bronze Union Bonnet Solid Disc Rising Stem NPT	Class 150 (300 CWP, 150 SWP) Gate Valve Bronze Threaded Bonnet Solid Disc NRS NPT	Class 150 (300 CWP, 150 SWP) Gate Valve Bronze Union Bonnet Solid Disc Rising Stem NPT	Class 300 (1000 CWP, 300 SWP) Gate Valve Bronze Union Bonnet Solid Disc Rising Stem NPT	
	MSS SP-139	MSS SP-80	MSS SP-139	MSS SP-80	MSS SP-80	MSS SP-80	MSS SP-80	MSS SP-80	
		438			428UB	437	431UB	662E	
		IB645			IB617	IB646	IB629	IB652	
		40				46	42	37	
	UP115	105	UP105		1152	1140	1151	1182	
	S113-LF	T113	T113-LF	T113-K	T124	T133	T134	T174A	
		B103K			B105K	B128K	B120K	B144K	
		4			2	14	11	3048	

	163T	163T-LF	164T	168T	169T	BRONZE CHECK VALVES
	61Y-20Y-T1	61YLF-20X-T1	61Y-21X-01	61Y-75X-01	61Y-75X-T1	
	1/4" to 2"	1/2" to 2"	1/4" to 3"	1/2" to 2"	1/2" to 2"	
	Class 125 (200 CWP, 125 SWP) Swing Check Bronze Y-Pattern PTFE Disc NPT	Class 125 (200 CWP) Swing Check LF-Bronze Y-Pattern PTFE Disc NPT	Class 150 (300 CWP, 150 SWP) Swing Check Bronze Y-Pattern Bronze Disc NPT	Class 300 (600 CWP, 300 SWP) Swing Check Bronze Y-Pattern Bronze Disc NPT	Class 300 (600 CWP, 300 SWP) Swing Check Bronze Y-Pattern PTFE Disc NPT	
	MSS SP-80	MSS SP-139	MSS SP-80	MSS SP-80	MSS SP-80	
	41TF		137	76E		
	IB940			IB949		
	22T	822T	29	19		
	509T		510	507		
	T413Y	T413Y-LF	T433b	T473B	T473Y	
	B320TYK		B321K	B375K		
				3428		



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BRONZE AND IRON CROSS REFERENCE CHART

BRONZE GLOBE VALVES	Apollo Model	120S	120T	121T	121T-LF	122T	127T	BRONZE GLOBE VALVES
	Apollo P/N	33-14X-01	33-13X-01	33-16X-01	33LF-16X-01	33-22X-01	33-66X-01	
	Size Range	1/2" to 2"	3/8" to 2"	1/4" to 2"	1/4" to 2"	1/4" to 3"	1/2" to 2"	
	Description	200 CWP Globe Valve Bronze Threaded Bonnet PTFE Disc Solder Ends	Class 125 (200 CWP, 125 SWP) Globe Valve Bronze Threaded Bonnet PTFE Disc NPT	Class 125 (200 CWP, 125 SWP) Globe Valve Bronze Threaded Bonnet Bronze Disc NPT	Class 125 (200 CWP) Globe Valve LF-Bronze Threaded Bonnet Bronze Disc NPT	Class 150 (300 CWP, 150 SWP) Globe Valve Bronze Union Bonnet PTFE Disc NPT	Class 300 (1000 CWP, 300 SWP) Globe Valve Bronze Union Bonnet Bronze Disc NPT	
	Design Standard	MSS SP-80	MSS SP-80	MSS SP-80	MSS SP-139	MSS SP-80	MSS SP-80	
	Crane Model		5TF	1		7TF		
	Hammond Model			IB440		IB413T	IB412	
	Kitz Model			11		9	17	
	Milwaukee Model			502	UP502	590T	572	
	Nibco Model	S211Y	T211Y	T211b		T235Y	T275B	
	Stockham Model	B14TK	B13TK	B16K		B22TK	B66K	
	Walworth Model	3095SJ		3058		3095	3205	

IRON GLOBE VALVES	Apollo Model	711F	721F	IRON GLOBE VALVES
	Apollo P/N	6GB-11X-B1	6GB-21X-B1	
	Size Range	2" to 10"	2" to 8"	
	Description	Class 125 Flanged Globe Valve Cast Iron OS&Y IBBM	Class 250 Flanged Globe Valve Cast Iron OS&Y IBBM	
	Design Standard	MSS SP-85	MSS SP-85	
	Crane Model	351	21E	
	Hammond Model	IR116	IR313	
	Kitz Model			
	Milwaukee Model	2981M	2983M	
	Nibco Model	F718B	F768B	
	Stockham Model	G512	F532	
	Walworth Model	W906F	W955F	



IRON CROSS REFERENCE CHART

IRON GATE VALVES	Apollo Model	610F	620F	611F	621F	IRON GATE VALVES
	Apollo P/N	6GA-10X-B1	6GA-20X-B1	6GA-11X-B1	6GA-21X-B1	
	Size Range	2" to 24"	2" to 12"	2" to 24"	2" to 12"	
	Description	Class 125 Flanged Gate Valve Cast Iron NRS IBBM	Class 250 Flanged Gate Valve Cast Iron NRS IBBM	Class 125 Flanged Gate Valve Cast Iron OS&Y IBBM	Class 250 Flanged Gate Valve Cast Iron OS&Y IBBM	
	Design Standard	MSS SP-70	MSS SP-70	MSS SP-70	MSS SP-70	
	Crane Model	461		465 1/2	7 1/2E	
	Hammond Model	IR1138		IR1140	IR330	
	Kitz Model					
	Milwaukee Model	2882M		2885M	2894M	
	Nibco Model	F619	F669	F617-0	F667-0	
	Stockham Model	G612	F661	G623	F667	
	Walworth Model	W719F		W726F	W786F	

IRON CHECK VALVES	Apollo Model	910F	910FLW	920F	910WB	910WE	IRON CHECK VALVES
	Apollo P/N	6SC-10X-B1	6SC-10X-B1L	6SC-20X-B1	6WC-10X-N1	6WC-10X-E1	
	Size Range	2" to 24"	2" to 12"	2" to 8"	2" to 24"	2" to 12"	
	Description	Class 125 Flanged Swing Check Cast Iron IBBM	Class 125 Flanged Swing Check Cast Iron IBBM w/ lever & weight	Class 250 Flanged Swing Check Cast Iron IBBM	Class 125 Wafer Check Buna Cast Iron IBBM	Class 125 Wafer Check EPDM Cast Iron IBBM	
	Design Standard	MSS SP-71	MSS SP-71	MSS SP-71			
	Crane Model	373	383	39E			
	Hammond Model	IR1124		IR322	IR9253		
	Kitz Model						
	Milwaukee Model	2974M	C2974MLW	2970M	1400		
	Nibco Model	F918B	F918BLW	F968B	W910B		
	Stockham Model	G931	G931W	F947	WG970	WG961	
	Walworth Model	W928F		W8970F			



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DEFINITIONS

VALVE TYPES:

Apollo offers cast bronze alloy Gate, Globe and Swing Check valves in a variety of configurations and sizes:

Gate Valves: Apollo Gate valves are all fully guided solid wedge style available in Type 1A, "Non-Rising Stem and External Stuffing Box" and Type 2, "Rising Stem, Inside Screw, External Stuffing Box" designs.

Globe Valves: Apollo Globe valves are available in Type 1, "Metallic Disc, Integral Seat" and Type 2, "Non-Metallic Disc, Integral Seat", and Type 3, "Metallic Disc, Replaceable/Renewable Seat" designs.

Check Valves: Apollo Swing Check valves are available in Type 3, "Metal to Metal Seated", and Type 4, "Non-Metallic Disc, Metal Seat" designs.

PRESSURE RATINGS:

SWP: "Steam Working Pressure" is defined as the maximum allowable working pressure for saturated steam service.

CWP: The acronym for "Cold Working Pressure" and is the allowable working pressure for the device in the temperature range of -20°F to 150°F (-29°C to 66°C)

Class 125: The CWP for Apollo's Class 125 valves is 200 psig.

Class 150: The CWP for Apollo's Class 150 valves is 300 psig

Class 300: The CWP for Apollo's Class 300 valves is 1000 psig (600 psig for swing checks)

200 CWP: Commonly applied to solder-end valves and equates to 200 psig.

125 SWP: The SWP for Apollo's Class 125 metal to metal seated valves is 125 psig.*

150 SWP: The SWP for Apollo's Class 150 metal to metal seated valves is 150 psig.*

300 SWP: The SWP for Apollo's Class 300 metal to metal seated valves is 300 psig.*

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

TEMPERATURE RATINGS:

Maximum temperature ratings for valves with non-metallic seating (such as is offered in some globe and check valves) are dependant upon the composition of the sealing element. It is the responsibility of the user to specify the service conditions and verify that the valves selected are suitable for their intended use.

END CONNECTION:

Threaded Ends: Valves supplied with threaded ends comply with ASME B1.20.1.

Solder Ends: Valves supplied with solder joint ends comply with ASME B16.18.

STEM TYPES:

Rising Stem: Rising stem, inside screw is the most common stem design used in bronze gate and globe valves. In the fully open, back seated position the stem threads are isolated from the media. The rising stem also give a clearly visible indication as to whether the valve is open or closed. Because the stem and handle rise above the valve during operation, adequate clearance must be provided.

Non-Rising Stem: Applicable only to gate valves. Valves with non-rising stems have a lower profile but the stem threads are exposed to the media leaving them subject to damage from erosion, corrosions or deposits. There is no visual open-closed indication.

BONNET OPTIONS:

Threaded Bonnet: This is the most cost effective method for assembling the bonnet of Gate and Globe valves.

Union Bonnet: Union bonnets are intended to simplify inspection of the interior of the valve.



DEFINITIONS

MATERIALS OF CONSTRUCTION:

For Standard Valves: All materials of construction comply with the requirements of MSS SP-80. Class 125, Class 150 and 200 CWP bodies and bonnets or covers are produced from ASTM B62 cast bronze containing a nominal 85% copper. Class 300 bodies and bonnets or covers are produced from ASTM B61 cast bronze containing a nominal 88% copper. Stems are produced from ASTM B371 silicon bronze.

"Lead-Free" Valves: Bodies and bonnets or covers are produced from ASTM B584-C89836 cast bronze containing a nominal 89% copper and no more than 0.1% lead. Stems are produced from ASTM B371 silicon bronze.

STEM PACKING:

All Apollo Bronze Gate and Globe valves are factory equipped with Die-Formed Graphite stem packing which ensures an effective seal under a wide range of service conditions.

MARKING:

All Apollo Bronze Gate, Globe and Check valves are marked in compliance with MSS SP-80, MSS SP-139 and MSS SP-25. Swing check valves include a cast flow direction arrow. Lead Free valves feature a cast "LF" symbol where space permits.

TESTING:

All Apollo Bronze Gate, Globe and Check valves are tested in compliance with MSS SP-80 and MSS SP-139.

STANDARDS COMPLIANCE:

ASME B1.20.1, "Pipe Threads, General Purpose (Inch)"

ASME B16.18, "Cast Copper Solder Joint Pressure Fittings"

ASTM B61, "Standard Specification for Steam or Valve Bronze Castings"

ASTM B62, "Composition Bronze or Ounce Metal Castings"

ASTM B371, "Standard Specification for Copper-Zinc-Silicon Alloy Rod"

ASTM B584, "Standard Specification for Copper Alloy Sand Castings for General Applications"*

MSS SP-25, "Standard Marking System for Valves, Fittings and Flanges"

MSS SP-80, "Bronze Gate, Globe, Angle and Check Valves"

MSS SP-139, "Copper Alloy Globe, Angle, and Check Valves for Low Pressure/Low Temperature Plumbing Applications"*

* Lead-Free versions of Apollo's Gate, Globe and Check valves

CAUTIONS:

Bubble tight shut-off should not be expected on metal seated check valves. MSS SP-80 defines acceptable leakage rates as 40 ml of water per hour per inch of Nominal Pipe Size (NPS) for valves 1" and larger or 0.4 Standard Cubic Foot (SCF) air per hour per inch of NPS. For valves smaller than 1" the allowable leak rate is 40 ml of water per hour or 0.4 SCF of air per hour.

Bubble tight shut-off should not be expected on metal to metal seated Gate or Globe valves. MSS SP-80 defines acceptable leakage rates as 10 ml of water per hour per inch of Nominal Pipe Size (NPS) for valves 1" and larger or 0.1 SCF of air per hour per inch of NPS. For valves smaller than 1" the allowable leak rate is 10 ml of water per hour or 0.1 SCF of air per hour.

Gate valves are not recommended for throttling service and should only be used in the fully open or fully closed positions to minimize vibration and chatter which may damage the seat or wedge. For throttling applications refer to Apollo's Globe valve offering.

Safe working pressures and temperatures for solder end valve depends not only on the valve and tubing strength, but also on the composition of the solder used to produce the joints. It is the responsibility of the user to choose a solder that is compatible with the service conditions.

Properly sized swing check valves frequently are smaller than the pipe in which they are used. This practice keeps velocities up so the valve operates near full open, minimizing noise and vibration while maximizing valve life.



WARRANTY AND LIMITATIONS OF LIABILITY

Conbraco Industries, Inc. warrants, to its initial purchaser only, that its products which are delivered to this initial purchaser will be of the kind described in the order or price list and will be free of defects in workmanship or material for a period of FIVE years from the date of delivery to you, our initial purchaser. This warranty applies to Apollo brand product with "Made in the USA" markings only.

Should any failure to conform to this warranty appear within FIVE years after the date of the initial delivery to our initial purchaser, Conbraco will, upon written notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with Conbraco's recommendations and standard industry practice, correct such defects by suitable repair or replacement at Conbraco's own expense.

APOLLO INTERNATIONAL PRODUCTS: Conbraco Industries, Inc. warrants its International products, to its initial purchaser only, that its international products which are delivered to this initial purchaser will be of the kind described in the order or price list and will be free of defects in workmanship or material for a period of TWO years from the date of delivery to you, our initial purchaser.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OF QUALITY, WHETHER EXPRESSED OR IMPLIED, EXCEPT THE WARRANTY OF TITLE AND AGAINST PATENT INFRINGEMENT. Correction of non-conformities, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of Conbraco to our initial purchaser, with respect to the goods, whether based on contract, negligence, strict tort or otherwise. It is the intention of Conbraco Industries, Inc. that no warranty of any kind, whether expressed or implied shall pass through our initial purchaser to any other person or corporation.

LIMITATION OF LIABILITY: Conbraco Industries, inc. SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES SUCH AS, BUT NOT LIMITED TO, DAMAGES OR TO LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS OR REVENUE, COST OF CAPITAL, COST OF PURCHASED OR REPLACEMENT GOODS, OR CLAIMS OF CUSTOMERS OF OUR INITIAL PURCHASER. THE REMEDIES OF OUR INITIAL PURCHASER, AND ALL OTHERS, SET FORTH HEREIN, ARE EXCLUSIVE, AND THE LIABILITY OF CONBRACO WITH RESPECT TO SAME SHALL NOT, EXCEPT AS EXPRESSLY PROVIDED HEREIN, EXCEED THE PRICE OF THE GOODS UPON WHICH SUCH LIABILITY IS BASED.

* It is the end user's responsibility to confirm that items intended for use satisfy local codes and standards.

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Bronze Foundry | Pageland, SC



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The Conbraco line continues to expand - with new products, designs and advanced materials - to better serve the needs of our customers in the chemical processing, pulp and paper, petroleum, residential and commercial plumbing and heating markets, as well as manufacturing and other markets.

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TERMS, CONDITIONS & WARRANTY INFORMATION

TERMS & CONDITIONS OF SALE

- Payment: 2% 10th prox. Net 30 days.
- All prices F.O.B. shipping point with freight allowed on shipments of 750 pounds and/or \$5,000 net minimum to all shipping points within the United States excluding Alaska and Hawaii. No freight allowed on Air Freight or Parcel Post shipments. Claims for shortages must be made within 10 days of receipt of material. Our responsibility ends when a delivery receipt is furnished us by the carrier.
- No invoice rendered For Less than \$50.00.
- No freight will be allowed on Air Freight, Air Express, Parcel Post or U.P.S. shipments.
- All Conbraco products may be combined to make sufficient weight for full freight allowance.
- Phone order quoted prices are subject to correction. Prices and designs are subject to change without notice.
- Orders for material of special design or specification are made to customer's order and are not subject to cancellation or return.
- All goods returned to us will not be accepted unless a full explanation has been made and our written authorized permission obtained in advance. All goods returned - if accepted - will be credited at invoice price, less 30% for service and rehandling charges, plus shipping expenses.
- We reserve the right to adjust orders to box quantities.

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				905-761-6666
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	Jimmy White	Central	jwhite@lascofittings.com	661-775-0713
	Ben Freeman	Southeast	bfreeman@lascofittings.com	731-234-2372
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				205-919-4944
				386-451-2307



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	Pro Marketing, Inc.	NC/SC/TN-East	sales@promarketinginc.net	864-578-4334	864-578-4889
	Spirit Group	FL (except Panhandle)	info@spiritgroupinc.com	407-291-6035	407-299-0378
	Tim Morales & Associates, Inc.	AL/FL Panhandle	sales@timmorales.com	251-602-8333	251-602-8339
	White Wolf Group	GA	info@whitewolfgroupinc.com	800-401-4870	888-908-9372
SOUTHERN REGION	BWC Inc.	LA (Commercial Products)	chuck@bwcassoc.com	504-734-0229	504-734-3711
	Marathon Flow Control	TX, OK, KS except Northeast, LA (Industrial)	sales@marathonflowcontrol.com	214-201-0100	214-201-0104
	Southern Marketing Group	MS/TN-West/AR/Bowie Cty.-TX	SMG49@bellsouth.net	901-547-0042	901-547-0035
MIDWESTERN REGION	FourMation Sales	MN/ND/SD/WI-West	ryan@fourmationsales.com	763-420-6900	763-420-6993
	Marshall-Rodeno Heartland	NE/IA (Except River Counties)	trodeno@marshallrodeno.com	303-575-6701	303-575-6706
	Midwest Spec	KY/OH/PA-West/WV-West	glsales@mwspec.com	330-538-0406	330-538-0410
	New Tech Marketing	Northern-IL/WI-East/IN/MI-UP/IA-River Counties	sales@new-techmarketing.com	630-378-4300	630-378-0343
	New Tech Marketing	MO/Southern IL/Northeast Kansas	ntm112@aol.com	618-394-0329	618-394-0427
	V.E. Sales Co., Inc.	MI (Except Upper Peninsula)	tomv@vesalesinc.com	586-774-7760	586-774-1490
WESTERN REGION	Elmco Duddy	CA - South	tduddy@elmcoduddy.com	626-333-9942	626-855-4811
	Gordon & Associates	WA, OR, AK, Northern counties ID	laura@gordonandassoc.com	360-566-1470	360-566-1478
	HC Fletcher	CA - North (AB 1953 compliant product)	apollosales@hcfletcher.com	800-432-7047	949-660-9072
	Marshall-Rodeno Associated	CO/WY/MT/ID-SE/UT/NV-NE/NM/El Paso-TX	trodeno@marshallrodeno.com	303-575-6701	303-575-6706
	Romatec	CA - North PVF (non AB 1953)	apollo@romatec.com	877-530-3530	661-588-3534
	Southwest Valves	CA (Waterworks and Fire Protection)	d.burell@southwestvalve.com	559-261-2703	559-261-2711
	Southwestern Industrial Sales Co.	AZ/Nevada-SW	eduardop@sw-ind.com	480-458-5838	480-458-5843
NORTHEAST REGION	Spec Management Group	HI	msmarch4@cox.net	949-481-4225	949-487-0990
	Conroy & Griese Sales, Inc.	NY-East/NJ-North	iezzi52@aol.com	856-663-4440	856-663-6644
	Keith Engle & Associates	OEM accounts	keith.engle@verizon.net	610-827-9560	610-827-9561
	Layden Company	NY-Upstate/PA-East/DE/NJ-South	joejr@laydencompany.com	610-363-6657	877-529-3361
IRRIGATION ONLY REPS	Urell, Inc.	MA/New England States	conbraco@urell.com	617-923-9500	617-926-9414
	Active Sales Northwest, Inc.	OR, WA, Western ID	skactive@aol.com	541-726-0320	541-726-1148
	Biz Sales Company	OH, KY, MI, IN, parts of PA, WV, WI	dzavelson@bizpvf.com	216-595-2888	216-595-2899
	Fourmation Sales	MN/ND/SD/WI-West	dean@fourmationsales.com	763-262-4700	763-262-4740
	Hall Marketing	AL, LA	hallmarketing@bellsouth.net	228-547-4637	228-832-6666
	J&J Midwest Sales	NE, IA, MO, KS	john@jandjmidwestsales.com	314-422-8419	
	Jim Benton & Associates	AL, FL Panhandle	jim@bentonandassoc.com	205-664-1221	205-664-1277
	John Hart	FL	jhart@lascofittings.com	772-595-7773	772-489-4305
	Larry Perkins	TX - Southern	lperkins@lascofittings.com	936-443-1096	
	Marel Enterprises	New England, NY, DE, MD, VA, DC, parts of PA & WV	marelenterprise@gmail.com	631-271-1718	631-427-8558
	Marshall-Rodeno Associated	CO/WY/MT/ID-SE/UT/NV-NE	trodeno@marshallrodeno.com	303-575-6701	303-575-6706
	NSC Marketing Group Inc.	OK	nsc_tulsa@sbcglobal.net	918-627-5340	918-664-1408
	Pro Marketing, Inc.	NC/SC/TN-East	sales@promarketinginc.net	864-578-4334	864-578-4889
	Sherman Dobbs	TX - Northern	sdobbs@lascofittings.com	469-442-8510	972-417-9733
	Southern Marketing Group	MS/TN-West/AR/Bowie Cty.-TX	SMG49@bellsouth.net	901-547-0042	901-547-0035
	Spec Management Group	CA-South	msmarch4@cox.net	949-481-4225	949-487-0990
	VPC Sales	AZ	chudson@vpcsales.com	661-257-3923	661-257-3928
CANADA	Ventes Techniques Nimatec	Quebec	nimatec@nimatec.com	450-691-9427	450-691-4949
	Barclay Sales Ltd.	British Columbia	bbarclay@barclaysales.com	604-945-1010	604-945-3030
	Conbraco Industries, Canada	178 Pennsylvania Ave., Unit 1, Concord, Ontario L4K 4B1	conbraco.canada@conbraco.com	905-761-6161	905-761-6666
	D & M Mechanical Sales	Ontario/East	don@dandmsales.ca	613-384-7084	613-384-3407
	Dynamic Agencies, Ltd.	Saskatchewan	doug.dynamicage@sasktel.net	306-343-1901	306-343-1901
	J. Levandier Sales, Inc.	Nova Scotia, New Brunswick, Prince Edward Island & Newfoundland	service@jlevandiersales	506-858-1615	506-858-1084
	Kern Industries, Ltd.	Alberta-North	kernind@telusplanet.net	780-451-2056	780-454-6687
	Kern Industries Calgary, Ltd.	Alberta-South	marty.yucytus@kernindustries.ca	403-730-7791	403-239-8179
	Key to the North Sales Agency, Inc.	Ontario-North	hmehes@keytothenorth.ca	705-524-6714	705-566-0148
	Task Controls, Inc.	Ontario	infotoronto@taskcontrols.com	416-291-3004	416-754-3481
	Tom Beggs Agencies Ltd.	Manitoba/NW Ontario	tba@mts.net	204-953-1900	204-774-6915

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