



PRODUCT CATALOG
2016

MARINEPRODUCTS
valves & fittings

MACA9000





A history of Quality, Service and Innovation

Now in its ninth decade, Conbraco Industries, Inc. is a leading manufacturer of flow control products for U.S. and international markets. The company's headquarters is based in Matthews, NC with manufacturing plants and foundries located in Pageland and Conway, SC.

Conbraco has a history of new product development and innovation that dates back to the company's inception in 1928. Today, the Conbraco line of products is marketed under the "Apollo Valves" brand and includes: ball valves, butterfly valves, backflow prevention devices, water pressure reducing valves, mixing valves, safety relief valves, water gauges, strainers, actuation and APOLLOXPRESS® products.

Conbraco's vertically integrated manufacturing ensures a consistency of production, testing, quality and availability. You can be assured that Conbraco flow control products will deliver long term reliability. All manufacturing facilities are ISO 9001:2008 certified.

The Conbraco line continues to expand with new products, designs and advanced materials to better serve the needs of our customers. Markets served include: chemical processing, pulp and paper, petroleum, residential and commercial plumbing and heating, OEM, irrigation, water works, and fire protection.

- >>> FUEL SHUT OFF VALVES
- >>> SEA FLANGE VALVES
- >>> BRONZE & STAINLESS STEEL CONE CHECK VALVES
- >>> THRU HULL CONNECTIONS & COMPONENTS
- >>> INTAKE STRAINERS
- >>> PIPE TO HOSE ADAPTERS



T A B L E O F C O N T E N T S

Apollo Full Flow Sea Flange Valves	3	Ball Type Fuel Shut-Off Valve.....	7
Apollo Economy Sea Flange Valves	3	Bronze Ball Cone Check Valve 61 Series.....	7
32-100 Series Regular Port Economy Ball Valve	4	Stainless Steel Ball Cone Check Valve 62 Series	8
78-600/900 Series Bronze Valve w/Center Drain	4	Thru-Hull Connections and Components	8-9
77-100-10 Series Shut-Off Valve	5	Intake Strainer - One Piece.....	10
70-100-10 Series Shut-Off Valve	5	Pipe to Hose Adapter	10
5-Port Fuel Tank Selector Ball Valve	6	90° Pipe to Hose Adapter	10
Series 70-600-10 Three-Way Diverter Valve.....	6	Warranty	11

MARINE VALVES AND FITTINGS

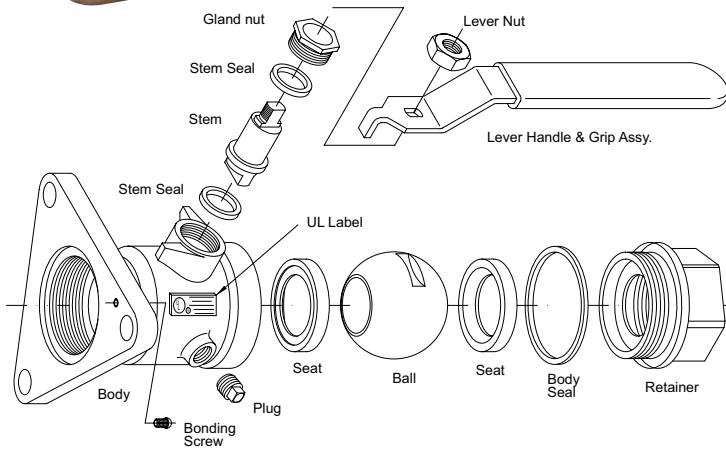
Sea Flange Valves

APOLLO® FULL FLOW SEA FLANGE VALVES

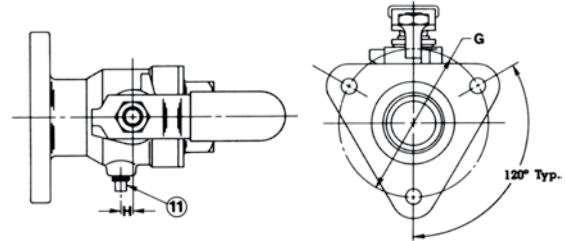
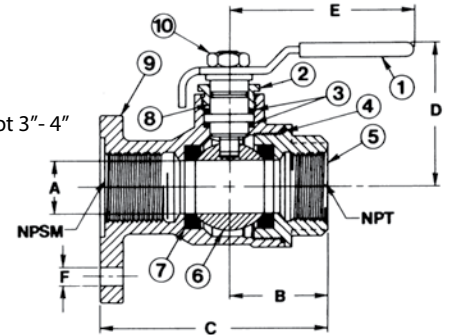
An 85-5-5 bronze ball type valve developed to replace plug and other types of sea cocks in the boating industry. Features like these make the full flow Apollo® Sea Flange your best choice for long-lasting performance and value.

FEATURES:

- Underwriters Laboratories listed
- All AYBA recommended materials
- All bronze wetted metallic components
- Large flow ports (designated by "F" at the end of the part #)**
- RPTFE seats and seals
- Chromium plated bronze ball—resists damage from marine growth
- Easy on-off operation
- Winterizing drain plug
- No thumb screws to create seal
- Stainless steel lever and nut
- Compact, streamlined efficient design
- No lubrication required
- Bonding screw standard



1. Lever & grip
2. Gland screw
3. Stem seals
4. Body seal, except 3"- 4"
5. Retainer
6. Ball
7. Seat (2)
8. Stem
9. Body
10. Lever nut
11. Plug



Part Number	NPT Size	Dimensions (in.)									WT/lbs.
		A	B	C	D	E	F	G	H		
78-115-01F**	3/4"	0.75	1.56	3.62	2.16	4.78	0.34	3.12	0.06	2.70	
78-118-01	1"	1.00	1.87	4.25	2.62	5.50	0.34	3.37	0.25	3.80	
78-119-01	1-1/4"	1.25	2.15	4.81	2.81	5.50	0.34	3.62	0.37	5.75	
78-116-01F**	1-1/2"	1.50	2.37	5.21	3.13	5.37	0.34	4.50	0.34	7.25	
78-120-01	2"	2.00	2.84	6.25	4.68	8.00	0.34	5.00	0.87	12.90	
78-117-01	2-1/2"	2.50	3.18	6.87	4.00	8.00	0.34	5.87	1.00	18.20	
78-121-01A	3"	3.12	3.54	7.23	5.21	9.93	0.40	7.00	1.25	21.18	
78-122-01A	4"	4.00	3.75	8.06	5.68	9.93	1.13	8.44	1.90	33.05	

Contact Customer Service for availability on locking handle option

** Large flow ports

APOLLO® ECONOMY SEA FLANGE VALVES

Same great features and quality all-bronze construction as Full Flow Sea Flange valves, but with standard port design and lower cost.

Part Number	NPT Size	Dimensions (in.)									WT/lbs.
		A	B	C	D	E	F	G	H		
78-115-01	3/4"	0.68	1.50	3.50	2.18	4.87	0.34	3.12	0.06	2.32	
78-116-01	1-1/2"	1.25	2.18	4.81	2.87	5.50	0.34	4.50	0.18	6.30	

Contact Customer Service for availability on locking handle option

NOTE: Apollo Marine Valves used in applications where marine growth can become intrusive should be actuated to the fully closed and fully open positions as often as once per month and at minimum once every other month. Such cycling of these valves can reduce the effort needed to open and close the valves while also helping to clear marine growth buildup on components.



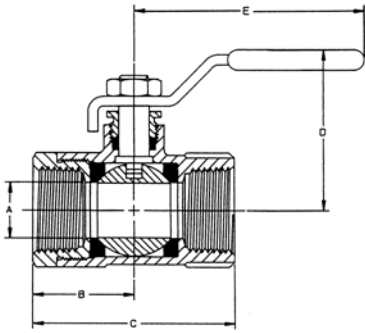
For additional information, submittal sheets and manuals, visit www.apollovalves.com

Customer Service (704) 841-6000

MARINE VALVES AND FITTINGS

Regular Port Economy Ball Valves

32-100 SERIES



NPT threaded ball valve rated to 400 psig CWP, non-shock and 125 psig for saturated steam. Blowout-proof stem design with adjustable packing gland.

FEATURES

- ASTM B584 Bronze
- PTFE seats and MPTFE stuffing box ring

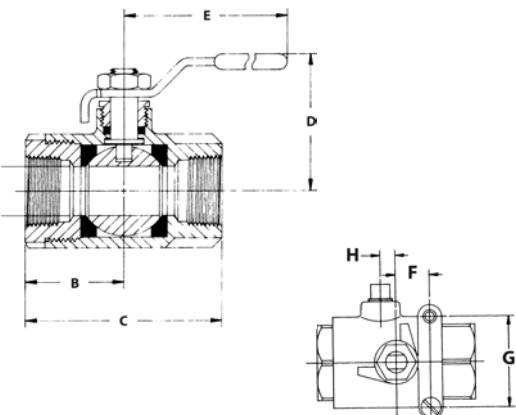
OPTIONS

- 2-1/4" stem extension (-04)
- Tee handle (-07)
- Stainless Steel Lever & Nut (-10)
- Round handle (-15)
- SS latch-lock lever & nut (-27)
- Balancing stop (-92)

Model Number	Size (in.)	Dimensions (in.)					WT/lbs.
		A	B	C	D	E	
32-104-10	3/4	0.65	1.20	2.41	1.90	3.87	0.719
32-105-10	1	0.75	1.55	3.09	2.18	4.87	1.394
32-106-10	1-1/4	1.00	1.72	3.44	2.53	5.50	2.596
32-107-10	1-1/2	1.12	1.93	3.87	2.69	5.50	3.557

Bronze Valve with Center Drain

78-600/900 SERIES



Center tap drain allows winterization of the valve. Bonding screw allows valve to be connected to the vessel's bonding system.

FEATURES:

- Bronze body
- Chromium plated brass ball
- RPTFE seats and stuffing box ring
- Blow-out-proof stem design
- Stainless steel lever and nut
- Mounting pads
- Tapered pipe threads

Part Number	NPT Size	Dimensions (in.)								WT/lbs.
		A	B	C	D	E	F	G	H	
78-664-01	3/4"	0.68	1.50	3.00	2.12	4.87	0.87	1.37	0.17	1.53
78-665-01	1"	0.87	1.68	3.37	2.25	4.87	0.87	1.37	0.21	1.86
78-666-01	1-1/4"	1.00	2.00	4.00	2.62	5.50	0.93	1.50	0.28	3.39
78-667-01	1-1/2"	1.25	2.18	4.37	3.05	8.00	0.93	1.50	0.40	4.68
78-962-01	2"	1.50	2.34	4.69	3.24	8.00	0.93	1.50	0.45	5.72

MARINE VALVES AND FITTINGS

Shut-Off Valve

77-100-10 SERIES



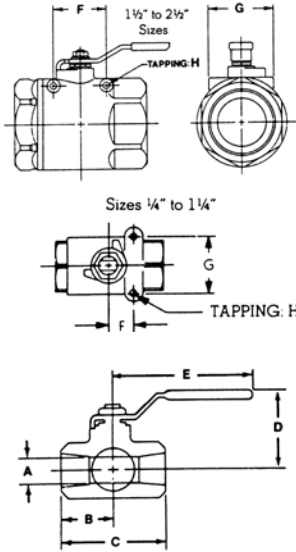
The bronze full port Apollo® with mounting pads for easy, secure installation and quick, convenient bonding. Use in any valve application where full flow is required.

FEATURES:

- Bronze Body
- Chromium Plated Brass Ball
- RPTFE Seats And Stuffing Box Ring
- Blow-Out-Proof Stem Design
- Stainless Steel Lever And Nut

OPTIONS:

- 316 stainless steel ball and stem



Part Number	NPT Size	Dimensions (in.)								WT/lbs.
		A	B	C	D	E	F	G	H	
77-101-10	1/4"	0.43	1.12	2.25	1.81	3.87	0.50	1.12	10-24NC	.79
77-102-10	3/8"	0.50	1.12	2.25	1.81	3.87	0.50	1.12	10-24NC	.75
77-103-10	1/2"	0.50	1.12	2.25	1.81	3.87	0.50	1.12	10-24NC	.69
77-104-10	3/4"	0.81	1.56	3.12	2.12	4.87	0.87	1.37	10-24NC	1.83
77-105-10	1"	1.00	1.81	3.62	2.62	5.50	0.93	1.50	1/4-20NC	3.32
77-106-10	1-1/4"	1.25	2.12	4.25	2.87	5.50	0.93	1.50	1/4-20NC	5.05
77-107-10	1-1/2"	1.50	2.37	4.75	3.34	8.00	2.08	3.06	5/16-24NF	6.71
77-108-10	2"	2.00	2.65	5.37	3.71	8.00	2.41	3.52	5/16-24NF	11.75
77-109-10	2-1/2"	2.50	3.25	6.50	4.12	8.00	2.75	3.37	1/4-20NC	17.25

70-100-10 SERIES



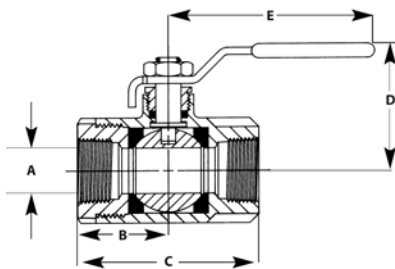
The mainstay of our valve line. Dependable, competitive and available with stainless steel lever and nut.

FEATURES:

- Bronze body
- Chromium plated brass ball
- RPTFE seats and stuffing box ring
- Blow-out-proof stem design
- Stainless steel lever and nut

OPTIONS:

- 316 stainless steel ball and stem

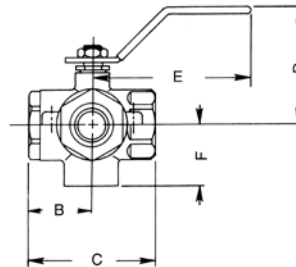
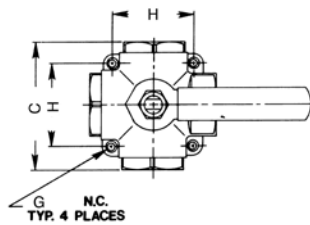
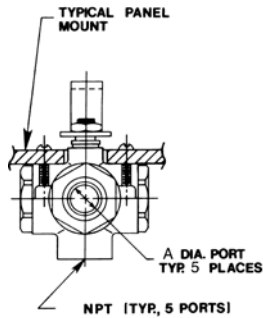


Part Number	NPT Size	Dimensions (in.)					WT/lbs.
		A	B	C	D	E	
70-101-10	1/4"	0.37	1.03	2.06	1.75	3.87	.60
70-102-10	3/8"	0.37	1.03	2.06	1.75	3.87	.56
70-103-10	1/2"	0.50	1.12	2.25	1.75	3.87	.63
70-104-10	3/4"	0.68	1.50	3.00	2.12	4.87	1.39
70-105-10	1"	0.87	1.68	3.37	2.25	4.87	1.72
70-106-10	1-1/4"	1.00	2.00	4.00	2.62	5.50	3.26
70-107-10	1-1/2"	1.25	2.18	4.37	3.06	8.00	4.61
70-108-10	2"	1.50	2.34	4.68	3.25	8.00	6.08
70-109-10A	2-1/2"	2.50	3.25	6.50	4.12	8.00	17.25
70-100-10	3"	2.50	3.37	6.75	4.12	8.00	18.60
70-10A-10	4"	3.12	3.69	7.37	5.25	9.94	25.50

MARINE VALVES AND FITTINGS

5-Port Fuel Tank Selector Ball Valve

MODELS 78-124-01 & 78-125-01A



Unique ball design allows for higher flow capacities. Perfect for tank selection on larger vessels. Five port construction allows access to four tanks using only one valve.

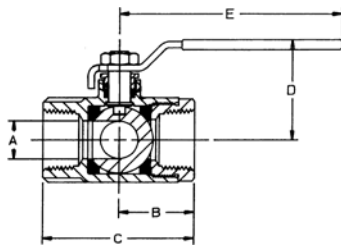
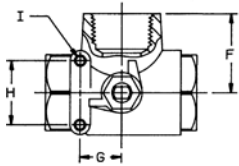
FEATURES:

- Five NPT connections
- Bronze ball valve with stainless steel lever and nut
- RPTFE stem packing (virgin seats)
- Stem packing adjustable for wear
- 50 psig pressure rating
- Operation: Four selected inlets feed one common outlet - pointer on handle indicates the selected inlet
- Non-lubricated
- Easy mounting design

Part Number	Size	Dimensions (in.)								WT/lbs.
		A	B	C	D	E	F	G	H	
78-124-01	1/2"	0.50	1.26	2.52	2.27	3.53	1.12	10-24	1.40	1.06
78-125-01A	3/4"	0.75	1.53	3.12	2.87	3.87	1.53	1/4-20	1.98	2.64

Three-Way Diverter Valve

SERIES 70-600-10



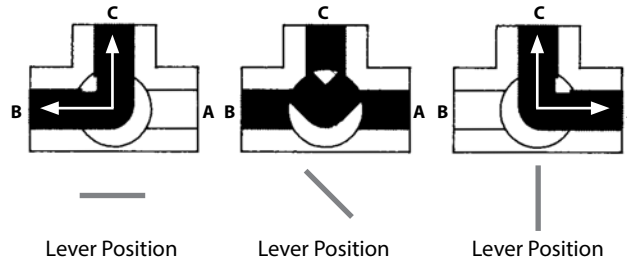
Fuel tank selection, oil transfer, and water tank selection are only a few of the uses for this versatile valve.

FEATURES:

- Bronze body
- Chromium plated bronze ball
- RPTFE seats and stuffing box ring
- Stainless steel lever and nut
- Mounting/bonding pads
- Blow-out-proof stem design
- 400 psig service rating
- Adjustable packing gland

Part Number	Size	Dimensions (in.)									WT/lbs.
		A	B	C	D	E	F	G	H	I	
70-603-10	1/2"	0.50	1.09	2.25	1.75	3.87	1.18	0.87	1.37	10-24	.76
70-604-10	3/4"	0.68	1.50	3.00	2.12	4.87	1.62	0.87	1.37	10-24	2.31
70-605-10	1"	0.81	1.59	3.18	2.25	4.87	1.71	0.87	1.37	10-24	2.04
70-606-10	1-1/4"	1.00	1.97	3.95	2.69	5.50	2.01	0.93	1.50	1/4-20	3.85
70-607-10	1-1/2"	1.25	2.21	4.40	2.87	5.50	2.38	0.94	1.50	1/4-20	5.22
70-608-10	2"	1.50	2.34	4.69	3.00	5.50	2.50	0.94	1.50	1/4-20	6.20

FLOW PATTERN



NOTE: Open port pressure must exceed Closed port pressure.

Also available in all Stainless Steel. Specify 76-600 Series.



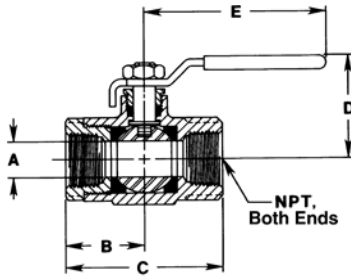
MARINE VALVES AND FITTINGS

Ball Type Fuel Shut-Off Valve

78-248, 250, 256, 438 SERIES



(Optional Tee Handle Illustrated)



Quality bronze valve features "mounting ears" for quick easy installation, and positive mounting. Can also be used for bonding.

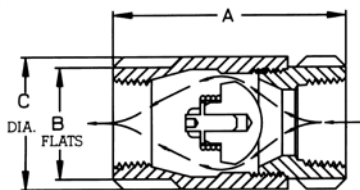
FEATURES:

- Surface mounted
- 400 psig service rating
- RPTFE seats and seals
- All wetted metallic parts are brass or cast bronze
- Fast 90° on-off turn
- Tested 100 psig air under water
- Stainless steel lever and nut
- Optional with stainless steel ball and stem

Part Number	Size	Dimensions (in.)					WT/lbs.
		A	B	C	D	E	
78-248-10	1/4"	0.43	1.12	2.25	1.78	3.87	.68
78-250-10	3/8"	0.50	1.12	2.25	1.78	3.87	.68
78-256-10	1/2"	0.50	1.12	2.25	1.78	3.87	.65
78-438-10	3/4"	0.68	1.50	3.00	2.12	4.87	1.40

Bronze Ball Cone Check Valve

61 SERIES



61-100 Shown

Prevents reverse flow with minimum change in flow velocity.

FEATURES:

- Tight shut off
- No radial alignment necessary
- Straight through and streamlined for minimum change in velocity
- Ball-Cone™ Check Is spring loaded for fast seating action (constructed of RPTFE)
- Not recommended for reciprocating pumps and similar applications conducive to repetitious vibrations
- Optional light spring
- Soft seat design - specify 61-500 Series
- Solder connections – specify 61-600 Series

Part Number	Part Number	Size	Dimensions (in.)			Approx. Open Pressure	WT/lbs.
			A	B	C		
61-101-01	61-501-01	1/4"	2-1/16	1 1/8	1 1/8	1/2 PSIG	.38
61-102-01	61-502-01	3/8"	2-1/8	1 1/8	1 1/8	1/2 PSIG	.38
61-103-01	61-503-01	1/2"	2-5/18	1 1/8	1 1/8	1/2 PSIG	.38
61-104-01	61-504-01	3/4"	2-7/8	1 3/8	1 1/2	1/2 PSIG	.75
61-105-01	61-505-01	1"	3-1/2	1 3/4	1 15/16	1/2 PSIG	1.45
61-106-01	61-506-01	1-1/4"	4-3/16	2 1/8	2 3/8	1/2 PSIG	2.75
61-107-01	61-507-01	1-1/2"	4-15/16	2 1/2	2 13/16	1/2 PSIG	3.94
61-108-01	61-508-01	2"	6	3	3 11/16	1/2 PSIG	6.30

MARINE VALVES AND FITTINGS

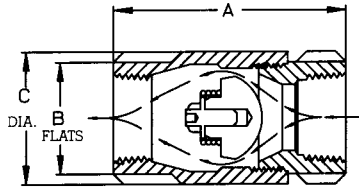
Stainless Steel Ball Cone Check Valve

62 SERIES

Prevents reverse flow with minimum change in flow velocity.

FEATURES:

- Tight shut off
- No radial alignment necessary
- Straight through and streamlined for minimum change in velocity
- Ball-Cone™ Check Is spring loaded for fast seating action (constructed of RPTFE)
- All wetted metal parts are 316 stainless steel
- Not recommended for reciprocating pumps and similar applications conducive to repetitious vibrations
- Optional light spring
- Soft seat design - specify 62-500 Series



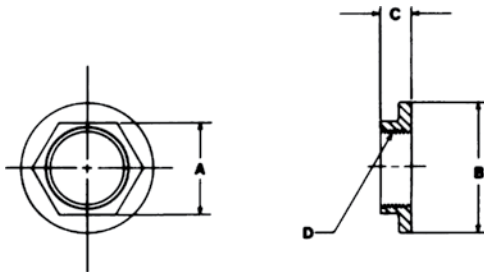
62-100 Shown

Part Number	Part Number	Size	Dimensions (in.)			Approx. Open Pressure	WT/lbs.
			A	B	C		
62-102-01	62-502-01	3/8"	2-1/8	1 1/8	1 1/8	1/2 PSIG	.38
62-103-01	62-503-01	1/2"	2-5/18	1 1/8	1 1/8	1/2 PSIG	.38
62-104-01	62-504-01	3/4"	2-7/8	1 3/8	1 1/2	1/2 PSIG	.75
62-105-01	62-505-01	1"	3-1/2	1 3/4	1 15/16	1/2 PSIG	1.45
62-106-01	-	1-1/4"	4-3/16	2 1/8	2 3/8	1/2 PSIG	2.75
62-107-01	-	1-1/2"	4-15/16	2 1/2	2 13/16	1/2 PSIG	3.94
62-108-01	-	2"	6	3	3 11/16	1/2 PSIG	6.30

Thru-Hull Connections and Components

BRONZE FLANGE NUTS - PLAIN BRONZE FINISH ONLY

Conbraco offers a wide selection of thru-hull connections and components, available in a wide range of sizes. ** = Specify "BF" for Bronze Fitting only. Specify "BN" for Bronze Fitting with nut. Designed and built with large surface to distribute load, for longer service life and more reliable connections; 85-5-5 bronze.



Part Number	Size	Dimensions (in.)				WT/100
		A	B	C	D	
65-007-65	1/2"	1.00	1.50	0.312	1/2" NPSM	7
65-006-38	3/4"	1.25	1.84	0.406	3/4" NPSM	12.5
65-006-39	1"	1.56	2.15	0.468	1" NPSM	20
65-006-40	1-1/4"	1.90	2.59	0.50	1 1/4" NPSM	29
65-006-41	1-1/2"	2.16	2.90	0.50	1 1/2" NPSM	40
65-006-42	2"	2.59	3.31	0.593	2" NPSM	52

MARINE VALVES AND FITTINGS

Thru-Hull Connections and Components

THRU-HULL CONNECTIONS

For connections below the waterline; 85-5-5-5 Bronze



(Excludes 1/2, 3/4")

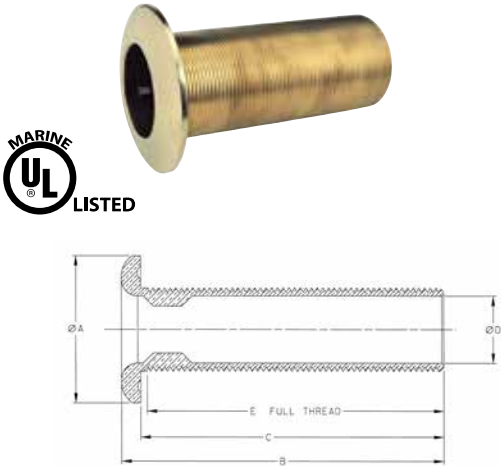
Part Number	Size	Dimensions (in.)					WT/100*
		A	B	C	D	E	
65-**7-63	1/2"	1.70	2.5	2.26	0.469	1/2" NPSM	33.5
65-**7-50	3/4"	1.93	2.46	2.25	0.75	3/4" NPSM	35
65-**7-51	1"	2.31	2.75	2.5	1.03	1" NPSM	47.5
65-**7-52	1 1/4"	2.81	3.28	3	1.313	1-1/4" NPSM	84
65-**7-53	1 1/2"	3.06	3.62	3.31	1.53	1-1/2" NPSM	107.5
65-**7-54	2"	3.62	3.81	3.5	2.00	2" NPSM	142
65-**7-55	2 1/2"	4.31	3.93	3.56	2.43	2-1/2" NPSM	216.5

** = Specify "BF" For Bronze Fitting Only. Specify "BN" For Bronze Fitting With Nut.

* = Weights are listed without nuts

EXTRA LONG THRU-HULL CONNECTIONS

Extra long to allow for thru-hull connections through the transom or through the bottom of foam filled hulls; 85-5-5-5 bronze.



(Excludes 3/4")

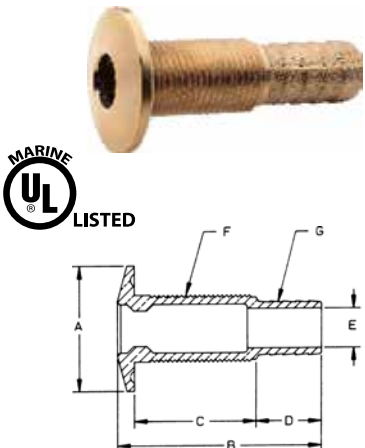
Part Number	Max. Hull	Dimensions (in.)					Pipe Size	WT/100*
		A	B	C	D	E		
65-**8-03	5.25	1.88	5.94	5.63	0.75	5.51	3/4" NPSM	70.5
65-**8-04	5.19	2.25	5.88	5.53	1.00	5.41	1" NPSM	95
65-**8-05	5	2.75	5.88	5.50	1.25	5.38	1-1/4" NPSM	159.5
65-**8-06	5	3.06	5.88	5.50	1.50	5.38	1-1/2" NPSM	188.5
65-**8-07	5	3.69	6.03	5.63	2.00	5.51	2" NPSM	209.5
65-**8-08	5	4.44	5.94	5.50	2.50	5.38	2-1/2" NPSM	314

** = Specify "BF" For Bronze Fitting Only. Specify "BN" For Bronze Fitting With Nut.

* = Weights are listed without nuts

THRU-HULL CONNECTIONS - BARBED

Recommended for use above the waterline; 85-5-5-5 bronze.



(Excludes 1/2", 3/4")

Part Number	Max. Hull	Dimensions (in.)					Pipe Size F	Hose Size G	WT/100*
		A	B	C	D	E			
65-**7-97	1.06	1.56	3.00	1.5	1.25	0.44	1/2" NPSM	0.63	28.5
65-**7-98	1.63	1.88	3.69	2.06	1.38	0.56	3/4" NPSM	0.75	40.5
65-**7-99	1.75	2.42	3.88	2.25	1.31	0.75	1" NPSM	1.00	74
65-**7-01	1.88	2.81	4.25	2.44	1.47	1.00	1-1/4" NPSM	1.25	106.5
65-**7-02	1.88	3.06	4.25	2.38	1.50	1.25	1-1/2" NPSM	1.50	123.5
65-**7-03	1.88	2.81	4.25	2.44	1.44	0.87	1-1/8" NPSM	1.13	104

** = Specify "BF" For Bronze Fitting Only. Specify "BN" For Bronze Fitting With Nut.

* = Weights are listed without nuts

MARINE VALVES AND FITTINGS

Intake Strainer

ONE PIECE INTAKE STRAINER

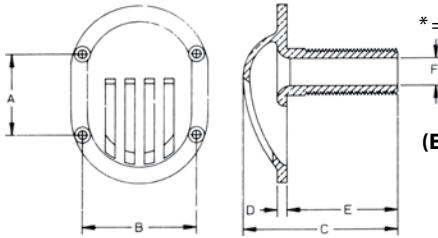
Designed for long life, easy installation; 85-5-5-5 bronze.



Part Number	Max. Hull	Strainer Dim.	Dimensions (in.)						Pipe Size	WT/100*
			A	B	C	D	E	F		
65-**8-09	2.00	2.6 X 3.5	1.56	2.19	3.00	0.19	2.13	0.53	1/2" NPSM	68
65-**8-10	2.19	3 X 4	1.94	2.47	3.63	0.19	2.56	0.75	3/4" NPSM	93.4
65-**8-11	2.50	3 X 4	1.88	2.50	3.88	0.19	2.91	1.00	1" NPSM	104
65-**8-12	3.00	3-1/4" X 4-1/4"	1.75	2.81	4.50	0.19	3.50	1.25	1-1/4" NPSM	158

** = Specify "BF" For Bronze Fitting Only. Specify "BN" For Bronze Fitting With Nut.

* = Weights are listed without nuts

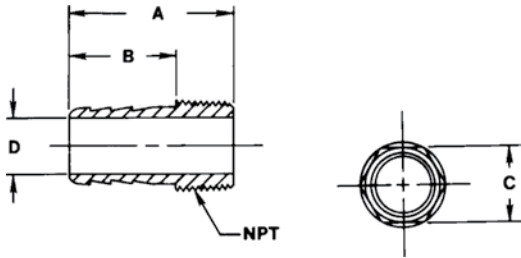


(Excludes 1/2", 3/4")

Adapters

PIPE TO HOSE ADAPTER

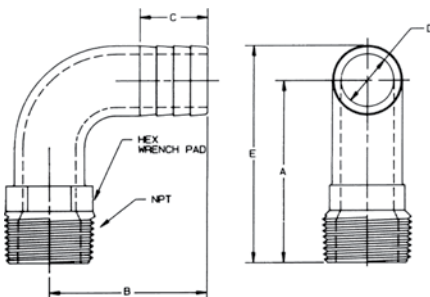
Features single-piece construction. Cast-in wrench flats make installation easier. 85-5-5-5 bronze.



Part Number	NPT Size	Hose I.D.	Dimensions (in.)				WT/lbs.
			A	B	C	D	
65-007-56	1/2"	1/2" or 5/8"	2.58	1.63	0.87	0.40	.18
65-007-51	3/4"	3/4"	1.93	1.00	0.87	0.51	.23
65-007-52	1"	1"	2.25	1.13	1.12	0.80	.35
65-007-53	1-1/4"	1-1/4"	2.69	1.44	1.37	1.03	.61
65-007-54	1-1/2"	1-1/2"	2.63	1.44	1.62	1.28	.81
65-007-55	2"	2"	2.88	1.63	2.12	1.75	1.30

90° PIPE TO HOSE ADAPTER

One-piece adapter simplifies right angle connections. Cast with wrench flats for easy installation; 85-5-5-5 bronze.



Part Number	NPT Size	Hose Size	Hex	Dimensions (in.)					WT/lbs.
				A	B	C	D	E	
65-907-50	1/2"	1/2" and 5/8"	5/8"	1.75	1.91	1.28	0.28	2.08	.35
65-907-51	3/4"	3/4"	7/8"	2.50	2.25	1.13	0.54	2.92	.41
65-907-52	1"	1"	1 1/8"	2.72	2.35	1.00	0.80	3.24	.67
65-907-53	1-1/4"	1-1/4"	1 3/8"	3.11	2.66	1.25	1.03	3.75	1.06
65-907-54	1-1/2"	1-1/2"	1 5/8"	3.44	3.11	1.25	1.28	4.20	1.30
65-907-55	2"	2"	2 1/8"	3.99	3.99	1.50	1.63	5.00	2.60

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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.

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



Fuel Shut Off Valves Sea Flange Valves Bronze & Stainless Steel Cone Check Valves
Thru Hull Connections & Components Intake Strainers Pipe to Hose Adapters



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Customer Service (704) 841-6000



SALES & CUSTOMER SERVICE:

Phone: (704) 841-6000

Fax: (704) 841-6020

To find a Sales Rep in your area, visit our website: www.apollovalves.com/replocator

	AREAS COVERED	ADDRESS	PHONE
MARINE MARKET OFFICE MANAGERS			
Joey Epperson joeye@usmarinemarketing.com	New England States/NY/PA-Eastern/MD/VA/NC/SC/ TN/GA/FL/AL/MS/LA/TX/CA/NV/AZ	US Marine Marketing Inc. 1500 Hwy 17 N Suite 105, Surfside Beach, SC 29575	(P) 843-945-4605 (F) 888-203-6494 (C) 843-907-6648
T.L. Groseclose npmar@aol.com	WA/OR/BC Canada	North Pacific Marketing 2514 100th Ave. NE, Bellevue, WA 98004	(P) 425-454-6660 (C) 206-669-0165

REGIONAL MANAGEMENT – APOLLO VALVES, ELKHART PRODUCTS & LASCO FITTINGS

	AREAS COVERED	EMAIL	PHONE
SENIOR MANAGEMENT			
Brian Ragone	Senior VP - Sales & Marketing	brian.ragone@conbraco.com	513-200-5415
Don Russell	VP Sales - Commercial & Industrial	don.russell@conbraco.com	614-943-0688

REGIONAL SALES DIRECTORS – COMMERCIAL & INDUSTRIAL			
Mike Bedzyk	Central/Northeast	michael.bedzyk@conbraco.com	614-619-4993
Mitch Davis	S. Central/Southeast	mitch.davis@conbraco.com	678-628-4478
Phillip Merino	West	phillip.merino@conbraco.com	702-960-9935

REGIONAL SALES MANAGERS – COMMERCIAL & INDUSTRIAL			
Kevin Ashworth	Midsouth	kevin.ashworth@conbraco.com	757-272-6200
Keith Baca	Southeast	keith.baca@conbraco.com	615-630-3892
Mike Blair	Central	mike.blair@conbraco.com	330-413-0035
Ken Copeland	Southwest	ken.copeland@conbraco.com	623-853-5744
Ben Lauletta	Northeast	ben.lauletta@conbraco.com	518-795-4629
Wesley Reinart	S. Central	wesley.reinart@conbraco.com	214-620-9901

INDUSTRIAL MARKET MANAGERS			
Dave Eck	Northeast	david.eck@conbraco.com	302-268-4411
Ken Griffin	Industrial & Commercial Valve Trainer	ken.griffin@conbraco.com	704-621-9296
Mark Sordelet	Central	mark.sordelet@conbraco.com	260-433-7393
Skip Wilson	Northwest	skip.wilson@conbraco.com	760-518-2222

BACKFLOW MARKET MANAGERS			
Pete Chapman	National Manager	pete.chapman@conbraco.com	559-577-2593
Cary Wiley	East	cary.wiley@conbraco.com	678-642-3356

APOLLOXPRESS MARKET MANAGERS			
John Rankel	National Manager	john.rankel@conbraco.com	702-445-0309
Todd Green	South Central	todd.green@conbraco.com	501-920-2029
Brian Jennings	North Central	brian.jennings@conbraco.com	859-394-3319
Jason Orawiec	West	jason.orawiec@conbraco.com	847-650-0170
Robert Purchia	East	robert.purchia@conbraco.com	704-960-3532

	AREAS COVERED	EMAIL	PHONE
APOLLOPUSH MARKET MANAGERS			
George Dragosz	Northeast	george.dragosz@elkhartproducts.com	574-206-3953
Mark Schanback	Southeast	mark.schanback@conbraco.com	407-916-9626
Jeremy Small	Central	jeremy.small@conbraco.com	214-766-2106
Dean Weidlein	West	dean.weidlein@elkhartproducts.com	702-355-8615

WROT/CAST MARKET MANAGERS			
Cindy Goodwin	National Manager	cindy.goodwin@elkhartproducts.com	517-294-0007

CANADA			
Jeff Cooper	General Manager	jeff.cooper@conbraco.com	416-451-9336
Andy Fretz	Commercial	andy.fretz@conbraco.com	647-281-3161
Jim Todman	Industrial	jim.todman@conbraco.com	905-407-8385

LASCO FITTINGS REGIONAL SALES MANAGERS – IRRIGATION			
David Beyer	Northeast	dbeyer@lascofittings.com	561-718-9379
Don Caver	Central	dcaver@lascofittings.com	469-628-4918
Bryan Jackman	West	bjackman@lascofittings.com	714-673-5875
Jimmy White	National Sales Manager	jwhite@lascofittings.com	731-234-2372
Rick Williamson	Eastern Specifications Manager	rwilliamson@lascofittings.com	386-451-2307

INTERNATIONAL SALES MANAGERS			
Bill McNamara	Director of International Sales	bill.mcnamara@elkhartproducts.com	1-574-903-3821
JR Jefferson	Central/South America & the Caribbean	jr.jefferson@conbraco.com	1-832-220-3783
Brencliff Group	Australia, New Zealand	petermcl@brencliff.com	61 477 223110
Pegler Yorkshire	United Kingdom	adrian.byrne@conbraco.com	44-7740-449858
Pegler Yorkshire Mid East	Middle East/India	peter.pydubai@gmail.com	971-4-454-2353
	Europe/Africa/Israel	customersupport@conbraco.com	1-704-841-6000

For more information about **Apollo Valves, Elkhart Products Corporation,** and our family of **AMERICAN MADE** products, contact:

