

PermaLynx™ System for Copper Tube



The Victaulic PermaLynx product line offers a complete system of push-to-connect couplings, fittings, valves and specialty adapters for ½ – 1½"/15 – 40mm for ASTM B88 hard-drawn (K, L & M) copper tube.

The PermaLynx push-to-connect technology offers a safer alternative to a solder system by providing a flame-free method of installation.

The PermaLynx system is rated to 200 psi/1380 kPa* and is recommended for use in potable hot and cold water distribution systems** up to 180°F/82°C. In addition, PermaLynx products are recommended for use in ambient, oil-free compressed air systems.

* All PermaLynx products are rated to 200 psi/1380 kPa with the exception of the supply stop valve which is rated to 125 psi/860 kPa.

** Refer to the current version of the Uniform Plumbing Code, the International Plumbing Code, the International Residential Code and NSF 61.



JOB/OWNER	CONTRACTOR	ENGINEER
System No. _____	Submitted By _____	Spec Sect _____ Para _____
Location _____	Date _____	Approved _____
		Date _____

PermaLynx™ System for Copper Tube

MATERIAL SPECIFICATIONS

Suitability for Service:

Materials are as shown below. Typical applications as suggested by literature are general in nature. Engineer of record is responsible to determine suitability for the intended service.

Tube: ASTM B88, Type K,L or M, hard-drawn copper

All PermaLynx fittings are NSF/ANSI 61 certified.

Permanent push-to-connect wrought copper alloy fittings:

Wrought copper alloy in accordance with ASME/ANSI B16.22

Permanent push-to-connect cast copper alloy fittings:

Cast copper alloy in accordance with ASME/ANSI B16.18.

Wrought and cast copper alloy threaded adapters:

All male and female threads in accordance with ASME/ANSI B1.20.1

Cast copper alloy flange adapters:

All flanges are Class 125. Material, workmanship and dimensions in accordance with MSS-SP-106.

Stainless steel internal components:

Type 301 stainless steel in accordance with ASTM A240.

Seal:

Grade "E" EPDM

Valves:

300 Series Ball Valve

NSF/ANSI 61 certified; Full-port, forged brass body and end pieces with push-to-connect ends.

- **Handle:** Zinc-plated steel with vinyl sleeve
- **Handle Nut:** Zinc-plated steel
- **Pack Nut:** Brass ASTM B 16 Alloy C36000
- **Packing:** Teflon (PTFE)
- **O-Ring:** Fluorocarbon (FKM)
- **Thrust Washer:** Teflon* (PTFE)
- **Body Seal:** Graphite
- **Seat Ring (2):** Teflon* (PTFE)
- **Stem:** Brass ASTM B 16 Alloy C36000
- **Ball:** Brass chrome plated ASTM B283 Alloy C36000
- **Body:** Brass forged ASTM B283 C37700
- **Body End Piece:** Brass forged ASTM B283 C37700
- **Push-to-Connect End:** Wrot copper, type 301 SS washers/gripper, EPDM seal

*Viton and Teflon are registered trademarks of Dupont Co.

PermaLynx™ System for Copper Tube

MATERIAL SPECIFICATIONS CONTINUED

510 Series Check Valve

NSF/ANSI 61 certified; In-line, lift-type check valve suitable for installation in horizontal or vertical lines with upward flow. Not for use with reciprocating air compressor service. Available with push-to-connect ends only.

- **Body:** Cast red bronze ASTM B 584 alloy C84400
- **Stem:** SS ASTM A 582 alloy C30300
- **Spring:** 316 SS
- **Disc Holder:** SS Type 301
- **Disc:** TFE
- **Seat Screw:** SS ASTM A 276 alloy C43000
- **Body End Piece:** Cast red bronze ASTM B 584 alloy C84400
- **Push-to-Connect End:** Wrot copper, type 301 SS washers/gripper, EPDM seal

Supply Stop Valve

Multi-purpose shut-off; straight and angle patterns for copper push-to-connect inlet and compression outlet connections; Heavy duty chrome-plated one-piece forged brass; Blowout-proof stem; 125 psi/860 kPa; Rated for operating temperatures from 33°F to 150°F/0°C to 66°C.

- **Valve Body:** Brass
- **Support Clip:** Stainless Steel
- **Seat:** FKM
- **Ball:** Brass
- **O-Ring:** FKM
- **Stem:** Brass
- **Screw:** Brass
- **Handle:** Zinc alloy
- **Gland:** Brass
- **Ferrule:** Brass
- **Nut:** Brass
- **Extension:** Chrome plated copper
- **Escutcheon:** Chrome plated stamping
- **Push-to-Connect End:** Wrot copper, type 301 SS washers/gripper, EPDM seal

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PIPE PREPARATION

Installation: Prepare copper tube and install in strict accordance with installation instructions. (I-PermaLynx)

Reference should always be made to the PermaLynx Field Installation Instructions for Copper Connection Products (I-PermaLynx). Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

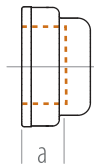
PermaLynx™ System for Copper Tube

FITTINGS

KEY

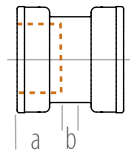
- PL: PermaLynx
- F: Female
- M: Male
- R: Reducer
- RR: Double Reducer

PL617
Cap PL (Wrot)



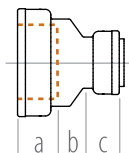
Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	—	—	0.50 12.70	—	—	—	—	—	0.03 0.014
¾ 20	—	—	0.63 16.00	—	—	—	—	—	0.06 0.027
1 25	—	—	0.69 17.53	—	—	—	—	—	0.10 0.045
1¼ 32	—	—	0.63 16.00	—	—	—	—	—	0.13 0.059
1½ 40	—	—	0.75 19.05	—	—	—	—	—	0.20 0.091

PL600
Coupling PL x PL (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	—	—	0.50 12.70	0.13 [†] 3.30	—	—	—	—	0.04 0.018
¾ 20	—	—	0.63 16.00	0.13 [†] 3.30	—	—	—	—	0.09 0.041
1 25	—	—	0.69 17.53	0.13 [†] 3.30	—	—	—	—	0.16 0.073
1¼ 32	—	—	0.63 16.00	0.13 [†] 3.30	—	—	—	—	0.21 0.095
1½ 40	—	—	0.75 19.05	0.13 [†] 3.30	—	—	—	—	0.30 0.136

PL600R
Coupling (R) PL x PL (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
¾ 20	½ 15	—	0.63 16.00	0.44 [†] 11.11	0.50 12.70	—	—	—	0.08 0.036
1 25	½ 15	—	0.69 17.53	0.44 [†] 11.11	0.50 12.70	—	—	—	0.13 0.059
1 25	¾ 20	—	0.69 17.53	0.56 [†] 14.22	0.63 16.00	—	—	—	0.14 0.064
1¼ 32	¾ 20	—	0.63 16.00	0.88 [†] 22.35	0.63 16.00	—	—	—	0.23 0.104
1¼ 32	1 25	—	0.63 16.00	0.50 [†] 12.70	0.69 17.53	—	—	—	0.21 0.095
1½ 40	1 25	—	0.75 19.05	0.75 [†] 19.05	0.69 17.53	—	—	—	0.28 0.127
1½ 40	1¼ 32	—	0.75 19.05	0.56 [†] 14.22	0.63 16.00	—	—	—	0.30 0.136

† Dimensions may vary +/- 1/32

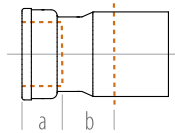
NOTE: Do not sweat/solder within 6"/150 mm of any PermaLynx product. Refer to PermaLynx installation instructions for details.

PermaLynx™ System for Copper Tube

FITTINGS CONTINUED

PL600-2R

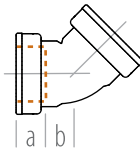
Fitting Coupling (R) PL x Ftg (Wrot)[†]



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	¾ 20	—	0.50 12.70	0.38 [†] 9.53	—	—	—	—	0.06 0.027
½ 15	1 25	—	0.50 12.70	0.50 [†] 12.70	—	—	—	—	0.09 0.041
¾ 20	1 25	—	0.63 16.00	0.56 [†] 14.22	—	—	—	—	0.11 0.050

PL606

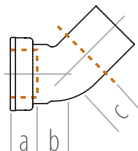
45° Elbow PL x PL (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	—	—	0.50 12.70	0.25 [†] 6.35	—	—	—	—	0.05 0.023
¾ 20	—	—	0.63 16.00	0.38 [†] 9.53	—	—	—	—	0.12 0.054
1 25	—	—	0.69 17.53	0.44 [†] 11.11	—	—	—	—	0.20 0.091
1 ¼ 32	—	—	0.63 16.00	0.69 [†] 17.53	—	—	—	—	0.31 0.141
1 ½ 40	—	—	0.75 19.05	0.69 [†] 17.53	—	—	—	—	0.44 0.200

PL606-2

45° Fitting Elbow PL x Ftg (Wrot)[†]



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	—	—	0.50 12.70	0.19 [†] 4.83	0.25 6.35	—	—	—	0.04 0.018
¾ 20	—	—	0.63 16.00	0.44 [†] 11.11	0.44 11.11	—	—	—	0.11 0.050
1 25	—	—	0.69 17.53	0.56 [†] 14.22	0.63 16.00	—	—	—	0.18 0.082
1 ¼ 32	—	—	0.63 16.00	0.69 [†] 17.53	0.94 23.88	—	—	—	0.27 0.122
1 ½ 40	—	—	0.75 19.05	0.75 [†] 19.05	1.13 28.70	—	—	—	0.38 0.172

PL607

90° Elbow — Short Radius PL x PL (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs.
½ 15	—	—	0.50 12.70	0.31 [†] 7.87	—	—	—	—	0.05 0.023
¾ 20	—	—	0.63 16.00	0.69 [†] 17.53	—	—	—	—	0.12 0.054
1 25	—	—	0.69 17.53	0.75 [†] 19.05	—	—	—	—	0.22 0.100
1 ¼ 32	—	—	0.63 16.00	1.19 [†] 30.23	—	—	—	—	0.37 0.168
1 ½ 40	—	—	0.75 19.05	1.31 [†] 33.27	—	—	—	—	0.55 0.249

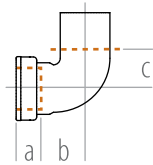
† Dimensions may vary +/- 1/32

NOTE: Do not sweat/solder within 6"/150 mm of any PermaLynx product. Refer to PermaLynx installation instructions for details.

PermaLynx™ System for Copper Tube

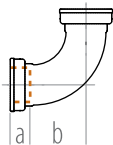
FITTINGS CONTINUED

PL607-2
90° Fitting Elbow PL x Ftg (Wrot)¹



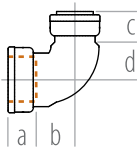
Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	—	—	0.50 12.70	0.13 [†] 3.30	0.50 12.70	—	—	—	0.05 0.023
¾ 20	—	—	0.63 16.00	0.44 [†] 11.11	0.88 22.35	—	—	—	0.11 0.050
1 25	—	—	0.69 17.53	0.94 [†] 23.88	1.19 30.23	—	—	—	0.20 0.091
1¼ 32	—	—	0.63 16.00	1.19 [†] 30.23	1.31 33.27	—	—	—	0.34 0.154
1½ 40	—	—	0.75 19.05	1.31 [†] 33.27	1.69 42.93	—	—	—	0.49 0.222

PL607LT
90° Elbow — Long Radius PL x PL (Wrot)



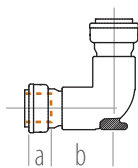
Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	—	—	0.50 12.70	0.81 [†] 20.57	—	—	—	—	0.09 0.041
¾ 20	—	—	0.63 16.00	1.31 [†] 33.27	—	—	—	—	0.18 0.082
1 25	—	—	0.69 17.53	1.50 [†] 38.10	—	—	—	—	0.32 0.145
1¼* 32	—	—	0.63 16.00	2.13 [†] 54.10	—	—	—	—	0.48 0.218
1½* 40	—	—	0.75 19.05	2.44 [†] 61.98	—	—	—	—	0.73 0.331

PL607R
90° Elbow — Short Radius (R) PL x PL (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
¾ 20	½ 15	—	0.63 16.00	0.69 [†] 17.53	0.50 12.70	0.69 17.53	—	—	0.12 0.054

PL707-5
90° Drop Elbow PL x PL (Cast)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	—	—	0.50 12.70	1.50 [†] 38.10	—	—	—	—	0.19 0.086

[†] Dimensions may vary +/- 1/32

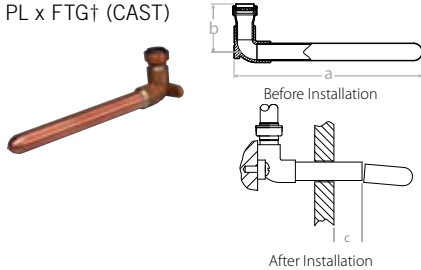
NOTE: Do not sweat/solder within 6"/150 mm of any PermaLynx product. Refer to PermaLynx installation instructions for details.

PermaLynx™ System for Copper Tube

FITTINGS CONTINUED

PL707-5S

90° Drop Elbow Stubout
PL x FTG† (CAST)

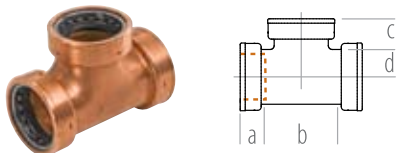


Size Inches/mm			Dimensions Inches/mm						Wgt.	
A	B	C	a	b	c*	d	e	f	Lbs./Kg.	
½ 15	½ 15	—	6.88 1.75	1.50† 38	0.75-1 19-25	—	—	—	0.31 0.141	

* Recommended copper tube protusion from wall
† FTG = Fitting End

PL611

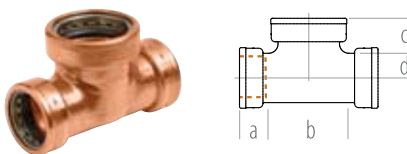
Tee PL x PL x PL (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.	
A	B	C	a	b	c	d	e	f	Lbs./Kg.	
½ 15	—	—	0.50 12.70	0.63† 15.88	0.50 12.70	0.31 7.87	—	—	0.09 0.041	
¾ 20	—	—	0.63 16.00	1.19† 30.23	0.63 16.00	0.63 16.00	—	—	0.20 0.091	
1 25	—	—	0.69 17.53	1.50† 38.10	0.69 17.53	0.69 17.53	—	—	0.36 0.163	
1 ¼ 32	—	—	0.63 16.00	1.88† 47.75	0.63 15.88	1.00 25.40	—	—	0.54 0.245	
1 ½ 40	—	—	0.75 19.05	2.00† 50.80	0.75 19.05	1.06 26.92	—	—	0.78 0.354	

PL611BH

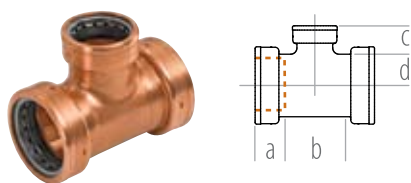
Bullhead Tee PL x PL x PL (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.	
A	B	C	a	b	c	d	e	f	Lbs./Kg.	
½ 15	½ 15	¾ 20	0.50 12.70	1.00† 25.40	0.63 16.00	0.50 12.70	—	—	0.48 0.218	
¾ 20	¾ 20	1 25	0.63 16.00	1.69† 42.86	0.69 17.53	0.56 14.22	—	—	0.26 0.118	

PL611R

Tee (R) PL x PL x PL (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.	
A	B	C	a	b	c	d	e	f	Lbs./Kg.	
¾ 20	¾ 20	½ 15	0.63 16.00	1.06† 26.92	0.50 12.70	0.44 11.11	—	—	0.16 0.073	
1 25	1 25	½ 15	0.69 17.53	1.13† 28.70	0.50 12.70	0.69 17.53	—	—	0.30 0.136	
1 25	1 25	¾ 20	0.69 17.53	1.25† 31.75	0.63 16.00	0.88 22.35	—	—	0.34 0.154	
1 ¼ 32	1 ¼ 32	½ 15	0.63 16.00	1.25† 31.75	0.50 12.70	0.81 20.57	—	—	0.40 0.181	
1 ¼ 32	1 ¼ 32	¾ 20	0.63 16.00	1.56† 39.62	0.63 16.00	0.94 23.88	—	—	0.43 0.195	
1 ¼ 32	1 ¼ 32	1 25	0.63 16.00	1.94† 49.21	0.69 17.53	0.88 22.35	—	—	0.44 0.200	
1 ½ 40	1 ½ 40	½ 15	0.75 19.05	1.13† 28.70	0.50 12.70	0.94 23.88	—	—	0.47 0.213	
1 ½ 40	1 ½ 40	¾ 20	0.75 19.05	1.44† 36.53	0.63 16.00	1.06 26.92	—	—	0.55 0.249	
1 ½ 40	1 ½ 40	1 25	0.75 19.05	1.69† 42.93	0.69 17.53	1.06 26.92	—	—	0.63	
1 ½ 40	1 ½ 40	1 ¼ 32	0.75 19.05	1.88† 47.75	0.63 16.00	1.13 28.70	—	—	0.75 0.340	

† Dimensions may vary +/- 1/32

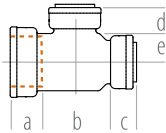
NOTE: Do not sweat/solder within 6"/150 mm of any PermaLynx product. Refer to PermaLynx installation instructions for details.

PermaLynx™ System for Copper Tube

FITTINGS CONTINUED

PL611RR

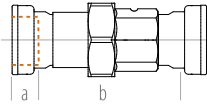
Tee (RR) PL x PL x PL (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
3/4 20	1/2 15	1/2 15	0.63 16.00	1.06 [†] 26.92	0.50 12.70	0.50 12.70	0.44 11.11	—	0.15 0.068
3/4 20	1/2 15	3/4 20	0.63 16.00	1.31 [†] 33.27	0.50 12.70	0.63 15.88	0.56 14.29	—	0.20 0.091

PL733

Union PL x PL (Cast)

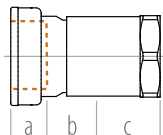


Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
1/2 15	—	—	0.50 12.70	1.56 [†] 39.62	—	—	—	—	0.27 0.122
3/4 20	—	—	0.63 16.00	2.44 [†] 61.98	—	—	—	—	0.42 0.191
1 25	—	—	0.69 17.53	2.69 [†] 68.33	—	—	—	—	0.71 0.322
1 1/4 32	—	—	0.63 16.00	3.00 [†] 76.20	—	—	—	—	0.98 0.445
1 1/2 40	—	—	0.75 19.05	3.38 [†] 85.85	—	—	—	—	1.35 0.612

ADAPTERS

PL603

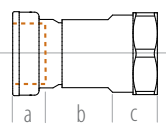
Coupling PL x F (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
1/2 15	—	—	0.50 12.70	0.88 [†] 22.35	0.50 12.70	—	—	—	0.11 0.050
3/4 20	—	—	0.63 16.00	0.75 [†] 19.05	0.56 14.22	—	—	—	0.23 0.104
1 25	—	—	0.69 17.53	1.44 [†] 36.58	0.69 17.53	—	—	—	0.37 0.168
1 1/4 32	—	—	0.63 16.00	1.69 [†] 42.93	0.69 17.53	—	—	—	0.55 0.249
1 1/2 40	—	—	0.75 19.05	1.81 [†] 46.05	0.69 17.53	—	—	—	0.72 0.327

PL603R

Coupling (R) PL x F (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
1/2 15	—	—	0.50 12.70	1.00 [†] 25.40	0.56 14.22	—	—	—	0.18 0.082
3/4 20	—	—	0.63 16.00	1.06 [†] 26.92	0.50 12.70	—	—	—	0.20 0.091
1 25	—	—	0.69 17.53	1.38 [†] 34.93	0.56 14.22	—	—	—	0.34 0.154

† Dimensions may vary +/- 1/32

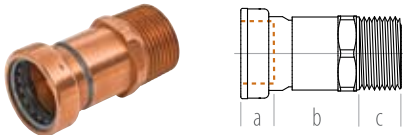
NOTE: Do not sweat/solder within 6"/150 mm of any PermaLynx product. Refer to PermaLynx installation instructions for details.

PermaLynx™ System for Copper Tube

ADAPTERS CONTINUED

PL604

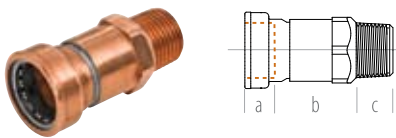
Coupling PL x M (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	—	—	0.50 12.70	0.69† 17.53	0.50 12.70	—	—	—	0.11 0.050
¾ 20	—	—	0.63 16.00	1.19† 30.23	0.56 14.22	—	—	—	0.23 0.104
1 25	—	—	0.69 17.53	1.50† 38.10	0.69 17.53	—	—	—	0.36 0.163
1 ¼ 32	—	—	0.63 16.00	1.56† 39.62	0.69 17.53	—	—	—	0.56 0.254
1 ½ 40	—	—	0.75 19.05	1.69† 42.93	0.69 17.53	—	—	—	0.73 0.331

PL604R

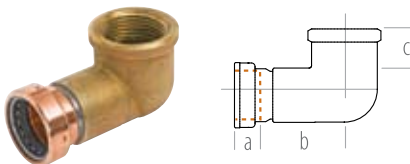
Coupling (R) PL x M (Wrot)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	¾ 20	—	0.50 12.70	0.94† 23.88	0.56 14.22	—	—	—	0.17 0.077
¾ 20	½ 15	—	0.63 16.00	1.25† 31.75	0.50 12.70	—	—	—	0.19 0.086

PL707-3

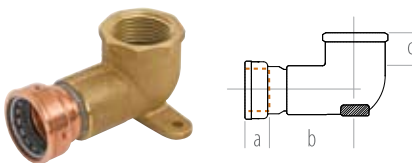
90° Elbow PL x F (Cast)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	—	—	0.50 12.70	1.00† 25.40	0.50 12.70	—	—	—	0.18 0.082
¾ 20	—	—	0.63 16.00	1.63† 41.28	0.56 14.22	—	—	—	0.33 0.150
1 25	—	—	0.69 17.53	1.88† 47.75	0.69 17.53	—	—	—	0.61 0.300

PL707-3-5

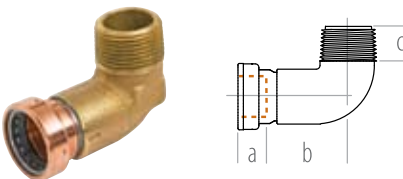
90° Drop Elbow PL x F (Cast)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	—	—	0.50 12.70	1.13† 28.70	0.50 12.70	—	—	—	0.21 0.095
¾ 20	—	—	0.63 16.00	1.63† 41.28	0.56 14.22	—	—	—	0.39 0.177

PL707-4

90° Elbow PL x M (Cast)



Size Inches/mm			Dimensions Inches/mm						Wgt.
A	B	C	a	b	c	d	e	f	Lbs./Kg.
½ 15	—	—	0.50 12.70	1.00† 25.40	0.50 12.70	—	—	—	0.18 0.082
¾ 20	—	—	0.63 16.00	1.63† 41.28	0.56 14.22	—	—	—	0.34 0.154
1 25	—	—	0.69 17.53	1.81† 46.05	0.69 17.53	—	—	—	0.58 0.263

† Dimensions may vary +/- 1/32

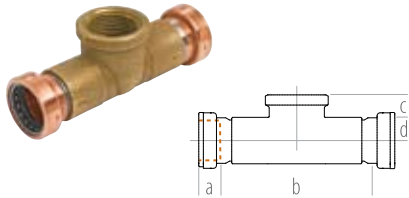
NOTE: Do not sweat/solder within 6"/150 mm of any PermaLynx product. Refer to PermaLynx installation instructions for details.

PermaLynx™ System for Copper Tube

ADAPTERS CONTINUED

PL712

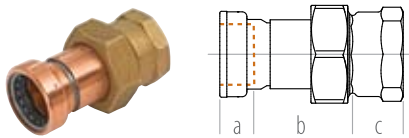
Tee PL x PL x F (Cast)



Size Inches/mm			Dimensions Inches/mm						Wgt.	
A	B	C	a	b	c	d	e	f	Lbs./Kg.	
½ 15	—	—	0.50 12.70	2.19 [†] 55.63	0.50 12.70	0.38 9.53	—	—	0.22 0.100	
¾ 20	—	—	0.63 16.00	3.13 [†] 75.50	0.56 14.22	0.44 11.11	—	—	0.51 0.231	
1 25	—	—	0.69 17.53	3.94 [†] 100.08	0.69 17.53	0.56 14.22	—	—	0.84 0.381	

PL733-3

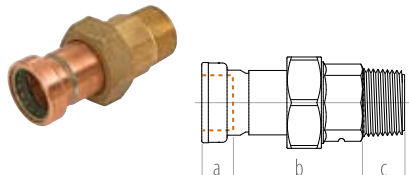
Union PL x F (Cast)



Size Inches/mm			Dimensions Inches/mm						Wgt.	
A	B	C	a	b	c	d	e	f	Lbs./Kg.	
½ 15	—	—	0.50 12.70	1.25 [†] 31.75	0.50 12.70	—	—	—	0.31 0.141	
¾ 20	—	—	0.63 16.00	1.75 [†] 44.45	0.56 14.22	—	—	—	0.52 0.236	
1 25	—	—	0.69 17.53	1.88 [†] 47.75	0.69 17.53	—	—	—	0.76 0.345	

PL733-4

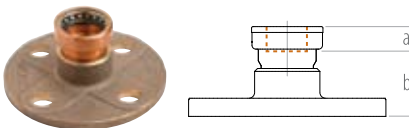
Union PL x M (Cast)



Size Inches/mm			Dimensions Inches/mm						Wgt.	
A	B	C	a	b	c	d	e	f	Lbs./Kg.	
½ 15	—	—	0.50 12.70	1.81 [†] 46.05	0.50 12.70	—	—	—	0.32 0.145	
¾ 20	—	—	0.63 16.00	2.38 [†] 60.33	0.56 14.22	—	—	—	0.53 0.240	
1 25	—	—	0.69 17.53	2.44 [†] 61.98	0.69 17.53	—	—	—	0.83 0.376	

PL771

Flange PL x Flange (Cast)



Size Inches/mm			Dimensions Inches/mm						Wgt.	
A	B	C	a	b	c	d	e	f	Lbs./Kg.	
1 25	—	—	0.69 17.53	1.25 [†] 31.75	—	—	—	—	1.75 0.794	
1 ¼ 32	—	—	0.63 16.00	1.31 [†] 33.27	—	—	—	—	2.10 0.953	
1 ½ 40	—	—	0.75 19.05	1.44 [†] 36.53	—	—	—	—	2.88 1.306	

† Dimensions may vary +/- 1/32

NOTE: Do not sweat/solder within 6"/150 mm of any PermaLynx product. Refer to PermaLynx installation instructions for details.

PermaLynx™ System for Copper Tube

SERIES 300 BALL VALVE

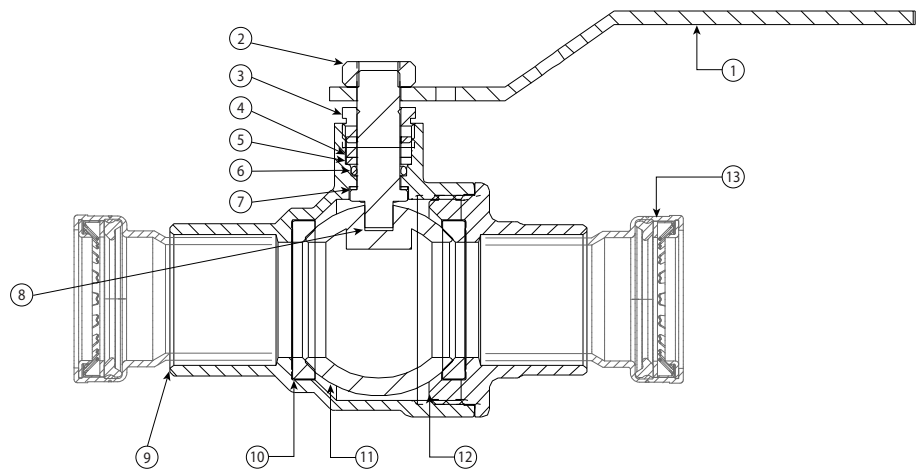
Multiple-purpose, full port, shut-off valve



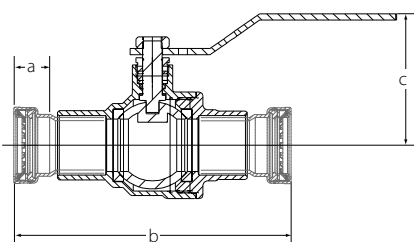
Bill of Materials

- 1 Handle
- 2 Handle Nut
- 3 Packing Nut
- 4 Packing
- 5 O-Ring
- 6 Thrust Washer
- 7 Body Seal
- 8 Seat Ring (2)
- 9 Stem
- 10 Ball
- 11 Body
- 12 Body End Piece
- 13 Push-to-Connect End

For material specifications refer to page 2.



SERIES 300 BALL VALVE DIMENSIONS



Size	a	b	c	Weight
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Lbs./Kg.
1/2	0.50	3.302	1.95	0.530
15	12.70	83.8	49.52	0.24
3/4	0.63	4.432	2.30	0.915
20	15.88	112.5	58.41	0.42
1	0.69	5.25	2.50	1.435
25	17.46	133.3	63.50	0.65
1 1/4	0.63	5.455	3.05	2.085
32	15.88	138.5	77.46	0.95
1 1/2	0.75	6.225	3.23	3.285
40	19.05	158.1	82.04	1.49

PermaLynx™ System for Copper Tube

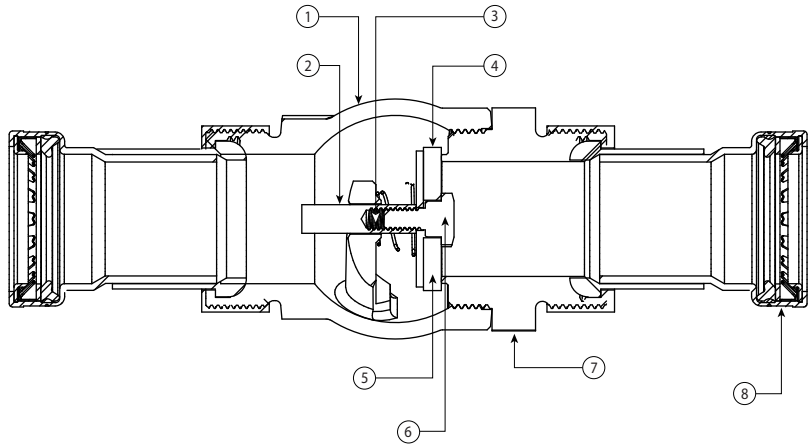
SERIES 510 CHECK VALVE

Double-union, in-line, lift check valve



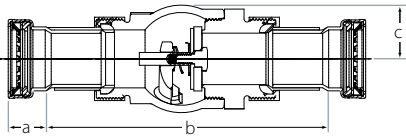
Bill of Materials #

- 1 Body
- 2 Stem
- 3 Spring
- 4 Disc Holder
- 5 Disc
- 6 Seat Screw
- 7 Body End Piece
- 8 Push-to-Connect End



For material specifications refer to page 3.

SERIES 510 CHECK VALVE DIMENSIONS



Size	a	b	c	Weight
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Lbs./Kg.
½	0.50	4.27	0.70	0.97
15	12.70	108.46	17.78	0.44
¾	0.63	5.09	0.82	1.39
20	15.88	129.29	20.83	0.63
1	0.69	5.98	1.02	2.27
25	17.46	151.90	25.91	1.03
1¼	0.63	6.62	1.21	3.20
32	15.88	168.15	30.74	1.46
1½	0.75	7.33	1.43	4.55
40	19.05	186.19	36.33	2.07

PermaLynx™ System for Copper Tube

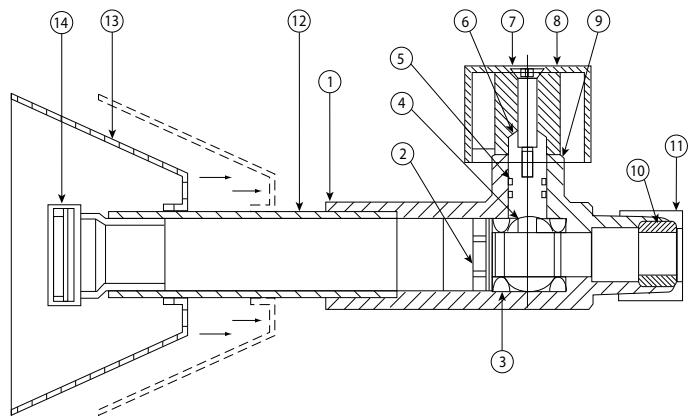
SUPPLY STOP VALVES



- Straight and angle patterns with 1/2" (half-inch) copper push-to-connect inlet and 3/8" (three-eighths inch) compression outlet connections
- Rated to 125 psi/860 kPa
- Rated for operating temperature from 33°F to 150°F/0°C to 66°C

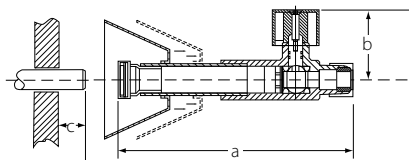
Bill of Materials

- 1 Valve Body
- 2 Support Clip
- 3 Seat
- 4 Ball
- 5 O-Ring
- 6 Stem
- 7 Screw
- 8 Handle
- 9 Gland
- 10 Ferrule
- 11 Nut
- 12 Extension
- 13 Escutcheon
- 14 Push-to-Connect End



For material specifications refer to page 3.

SUPPLY STOP VALVES DIMENSIONS



Model No.	Description	Inlet x Outlet	Dimensions – Inches/mm			Weight
			a	b	c°	Lbs/Kg
PL7120	Straight Pattern – PermaLynx x Compression – 4"	1/2 x 3/8 x 4"	4.00 101	1.34 34	.75 – 1 19 – 25	0.31 0.14
PL7125	Angled Pattern – PermaLynx x Compression – 4"	1/2 x 3/8 x 4"	4.00 101	1.30 33	.75 – 1 19 – 25	0.33 0.15

° Recommended copper tube protrusion from the wall. See PN400-36 PermaLynx Installation Instruction for tube end preparation requirements.

PermaLynx™ System for Copper Tube

The Tube Prep Tool and Tube Prep Max offer the simplest way to chamfer, deburr and ream ½ – 1 ½” copper tube (K,L,M) for use in PermaLynx system products.

The Tube Prep Tool comes in two sizes:



- Small for preparing ½ – 1” tube
- Large for preparing ½ – 1 ½” tube

The Tube Prep Tool is intended to be used with a power drive (i.e. Rigid 300).

The Tube Prep Max, comes in two sizes:

- Small for preparing ½ – 1” tube
- Large for preparing 1 ¼ – 1 ½” tube

The Tube Prep Max is intended to be used with a hand held drill.

PRODUCT	Tube Prep Tool Options	Figure Number
Tube Prep Tool (Power Drive) 	Small Chamfer/Deburr Tool For use with ½ – 1” Tube Diameter	PL-PREP-S
	Large Chamfer/Deburr Tool, For use with ½ – 1 ½” Tube Diameter	PL-PREP-L
Tube Prep Max (Drill Compatible) 	Small Chamfer/Deburr Tool For use with ½ – 1” Tube Diameter	PL-PREPMAX-S
	Large Chamfer/Deburr Tool For use with 1 ¼ – 1 ½” Tube Diameter	PL-PREPMAX-L

All tube inserted into PermaLynx products must be chamfered, deburred and reamed to avoid damaging EPDM rubber seals and maintain warranty.

PermaLynx™ System for Copper Tube

INSTALLATION

Reference should always be made to the PermaLynx Field Installation Instructions for Copper Connection Products (I-PermaLynx). Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

WARRANTY

Refer to the Warranty section of the current Price List or contact Victaulic for details.

NOTE

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.



WCAS-78KKX7

For complete contact information, visit www.victaulic.com

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