Streamline®
Tube • Fittings • Valves

COPPER FITTINGS FOR HVACR APPLICATIONS

Job Name _____ **Contractor** _____

Job Location _____ **Wholesaler** _____

Engineer _____ **Streamline® Rep** _____

Product Description:

Streamline® Wrot Copper fittings for use in refrigeration applications. Available sizes ranging from 1/8" to 8-1/8" in outside diameter. Product is designed to join ASTM B280 and ASTM B88 seamless copper tube.

Material:

Streamline® Wrot Copper fittings shall be made from material in compliance with UNS C12200 grade of copper.

Key Specifications:

Streamline® Wrot Copper pressure fittings shall conform to ASME B16.22 and MSS SP104. Streamline® Wrot Copper pressure fittings are third party verified in select sizes[1] through Underwriters Laboratories (UL) for operating pressure of 700psi at 250°F.

Installation:

Installations shall comply with the latest applicable building codes for the local jurisdiction. For detailed installation instructions, consult the Copper Development Association at copper.org.

References:

Product Line	Product Type	Outer Diameter
Copper Fittings c UL us 700 PSI R410A	Streamline® Wrot Solder-Joint Pressure	1/8" – 2-5/8"

*700PSI at 250°F in select patterns

C12200	99.9% Pure Copper
ASME B16.22	Wrot Copper and Copper Alloy Solder Joint Pressure Fittings
MSS SP104	Wrot Copper Solder and Joint Pressure Fittings

Other Applicable Standards

ASTM B88	Seamless Copper Water and Gas Tube (Types K, L, M)
ASTM B280	Seamless Copper Tube for Air Conditioning and Refrigeration

COPPER FITTINGS – HVACR

SOLDER/BRAZE JOINT PRESSURE WROT & CAST

NOTE: ALL SIZES ARE OD

ADAPTER

FEMALE
WC-402
C x F

Part	Size	Box	Ctn	Wt
W 01204	1/4 x 1/2	100	300	0.1
W 01205	x 3/8	100	700	0.05
W 01206	x 1/4	100	900	0.04
W 01207	x 1/8	100	1,500	0.04
W 01214	3/8 x 3/8	50	750	0.06
W 01215	x 1/4	50	750	0.04
W 01216	x 1/8	100	1,500	0.03
W 01223	1/2 x 3/4	50	300	0.16
W 01224	x 1/2	50	500	0.1
W 01225	x 3/8	50	750	0.07
W 01226	x 1/4	50	750	0.06
W 01230	5/8 x 3/4	25	250	0.16
W 01231	x 1/2	50	500	0.1
W 01232	x 3/8	50	500	0.07
W 01233	x 1/4	50	500	0.06
W 01238	3/4 x 3/4	50	500	0.15
W 01239	x 1/2	50	500	0.09
W 01245	7/8 x 1	25	250	0.27
W 01246	x 3/4	25	250	0.14
W 01247	x 1/2	25	250	0.11
W 01261	1-1/8 x 1-1/4	10	100	0.28
W 01263	x 1	25	250	0.25
W 01264	x 3/4	25	250	0.22
W 01265	x 1/2	20	200	0.25
W 01270	1-3/8 x 1-1/2	10	100	0.5
W 01271	x 1-1/4	10	100	0.45
W 01272	x 1	10	100	0.33
W 01278	1-5/8 x 2	–	60	0.74
W 01279	x 1-1/2	10	100	0.53
W 01280	x 1-1/4	5	50	0.39
W 01287	2-1/8 x 2	–	50	0.57
W 01288	x 1-1/2	5	50	0.74
W 01296	2-5/8 x 2-1/2	–	25	1.22
W 01297	3-1/8 x 3	–	15	

ADAPTER

FITTING
WC-405
FTG x F

Part	Size	Box	Ctn	Wt
W 01514	3/8 x 3/8	50	750	0.06
W 01524	1/2 x 1/2	50	350	0.1
W 01525	x 3/8	50	750	0.05
W 01526	x 1/4	50	750	0.06
W 01531	5/8 x 1/2	50	450	0.11
W 01532	x 3/8	50	750	0.07
W 01546	7/8 x 3/4	25	250	0.17
W 01547	x 1/2	50	500	0.11
W 01563	1-1/8 x 1	25	250	0.24
W 01564	x 3/4	25	250	0.18
W 01571	1-3/8 x 1-1/4	10	100	0.4
W 01579	1-5/8 x 1-1/2	10	100	0.46
W 01587	2-1/8 x 2	–	50	0.65
W 01596	2-5/8 x 2-1/2	–	25	1.2

ADAPTER

MALE
WC-401
C x M

Part	Size	Box	Ctn	Wt
W 01105 †	1/4 x 3/8	50	750	0.06
W 01106 †	x 1/4	50	1,200	0.03
W 01107 †	x 1/8	50	2,400	0.02
W 01109 †	5/16 x 3/8	50	800	0.07
W 01110 †	x 1/4	50	1,200	0.03
W 01113 †	3/8 x 1/2	50	500	0.08
W 01114 †	x 3/8	50	750	0.06
W 01115 †	x 1/4	50	1,200	0.03
W 01116 †	x 1/8	50	2,000	0.02
W 01123 †	1/2 x 3/4	25	250	0.17
W 01124 †	x 1/2	50	500	0.09
W 01125 †	x 3/8	50	500	0.06

ADAPTER CONT.

W 01126	†	x 1/4	50	750	0.05
W 01129	†	5/8 x 1	15	150	0.3
W 01130	†	x 3/4	25	250	0.17
W 01131	†	x 1/2	50	500	0.06
W 01132	†	x 3/8	50	500	0.07
W 01133	†	x 1/4	25	600	0.06
W 01138	†	3/4 x 3/4	25	250	0.14
W 01139	†	x 1/2	25	250	0.12
W 01145	†	7/8 x 1	10	100	0.29
W 01146	†	x 3/4	25	250	0.13
W 01147	†	x 1/2	25	250	0.12
W 01161	†	1-1/8 x 1-1/2	10	100	0.48
W 01162	†	x 11/4	10	100	0.39
W 01163	†	x 1	10	100	0.24
W 01164	†	x 3/4	10	100	0.17
W 01165	†	x 1/2	10	100	0.18
W 01170	†	1-3/8 x 1-1/2	10	100	0.48
W 01171	†	x 1-1/4	10	100	0.41
W 01172	†	x 1	10	100	0.24
W 01173	†	x 3/4	10	100	0.21
W 01178	†	1-5/8 x 2	–	50	0.78
W 01179	†	x 1-1/2	10	100	0.51
W 01180	†	x 1-1/4	10	100	0.37
W 01181	†	x 1	10	100	0.38
W 01187	†	2-1/8 x 2	5	50	0.57
W 01188	†	x 1-1/2	–	50	0.64
W 01189	†	x 1-1/4	–	50	0.57
W 01196	†	2-5/8 x 2-1/2	–	20	1.26
W 01197	†	x 2	–	20	0.98
W 01198	†	x 1-1/2	–	22	0.98
W 01199		3-1/8 x 3	–	20	1.7
W 01150		4-1/8 x 4	–	16	3.71

ADAPTER

FITTING
WC-404
FTG x M

Part	Size	Box	Ctn	Wt
W 01425 †	1/2 x 3/8	50	750	0.05
W 01431 †	5/8 x 1/2	50	500	0.09
W 01432 †	x 3/8	50	750	0.06
W 01446 †	7/8 x 3/4	50	500	0.15
W 01447 †	x 1/2	50	500	0.13
W 01463 †	1-1/8 x 1	25	250	0.23
W 01464 †	x 3/4	25	250	0.19
W 01471 †	1-3/8 x 1-1/4	10	100	0.41
W 01479 †	1-5/8 x 1-1/2	10	100	0.49
W 01487 †	21/8 x 2	–	50	0.76
W 01496 †	2-5/8 x 2-1/2	–	20	1.95

BUSHING

FLUSH
WC-106
FTG x C

Part	Size	Box	Ctn	Wt
W 01706 †	3/8 x 1/4	100	4,000	0.01
W 01712 †	1/2 x 3/8	100	4,000	0.01
W 01714 †	x 1/4	100	2,400	0.02
W 01715 †	5/8 x 1/2	100	1,500	0.02
W 01717 †	x 3/8	100	1,500	0.04
W 01720 †	3/4 x 5/8	50	750	0.03
W 01721 †	x 1/2	50	750	0.06
W 01722 †	x 3/8	50	750	0.08
W 01725 †	7/8x 3/4	50	500	0.04
W 01726 †	x 5/8	50	500	0.07
W 01727 †	x 1/2	50	500	0.11
W 01737 †	1-1/8 x 7/8	50	500	0.12
W 01738 †	x 3/4	50	500	0.18
W 01739 †	x 5/8	25	250	0.22
W 01743 †	1-3/8 x 1-1/8	10	200	0.16
W 01745 †	x 7/8	10	200	0.3
W 01750 †	1-5/8 x 1-3/8	10	100	0.22
W 01751 †	x 1-1/8	10	100	0.41
W 01758 †	2-1/8 x 1-5/8	10	100	0.68
W 01759 †	x 1-3/8	5	50	0.94
W 01767 †	2-5/8 x 2-1/8	–	50	0.92

BUSHING

FLUSH
WC-417
(BRASS)
FTG x F

Part	Size	Box	Ctn	Wt
A 07812	5/8 x 1/8	100	1,600	0.04
A 07813	x 1/4	50	1,200	0.02
A 07814	7/8 x 3/8	50	450	0.08
A 07815	1-1/8 x 1/2	50	300	0.17
A 07816	1-3/8 x 3/4	10	160	0.25
A 07817	1-5/8 x 1	10	90	0.34
A 07819	2-1/8 x 1-1/2	10	90	0.48

CAP

FLUSH
WC-415
C

Part	Size	Box	Ctn	Wt
W 07002	1/4	50	2,000	0
W 07004	3/8	50	2,000	0.01
W 07006	1/2	50	1,000	0.01
W 07007	5/8	100	1,000	0.02
W 07008	3/4	50	2,000	0.03
W 07009	7/8	50	500	0.04
W 07011	1-1/8	50	500	0.08
W 07012	1-3/8	25	250	0.11
W 07013	1-5/8	25	250	0.18
W 07014	2-1/8	–	100	0.3
W 07015	2-5/8	–	50	0.48
W 07016	3-1/8	–	50	0.73
W 07017	3-5/8	–	25	1.15
W 07018	4-1/8	–	20	1.5

COUPLING

NO STOP
WC-400NS
C x C

Part	Size	Box	Ctn	Wt
W 01900 †	1/4	100	4,000	0
W 01901 †	3/8	50	2,000	0.01
W 01902 †	1/2	50	1,700	0.01
W 01903 †	5/8	100	1,000	0.03
W 01904 †	3/4	25	375	0.04
W 01905 †	7/8	50	500	0.06
W 01906 †	1-1/8	25	250	0.11
W 01907 †	1-3/8	25	250	0.15
W 01908 †	1-5/8	10	100	0.25
W 01909 †	2-1/8	–	75	0.4
W 01910 †	2-5/8	–	50	0.66
W 01911	3-1/8	–	25	1.03
W 01913	4-1/8	–	15	2.15

COUPLING

ROLLED STOP
WC-400
C x C

Part	Size	Box	Ctn	Wt
W 01000 †	1/8	100	4,000	0
W 01001 †	3/16	100	4,000	0
W 01003 †	1/4	100	4,000	0
W 01009 †	3/8	50	2,000	0.01
W 01017 †	1/2	50	1,700	0.01
W 01022 †	5/8	100	1,000	0.03
W 01028 †	3/4	50	500	0.05
W 01034 †	7/8	50	500	0.06
W 01040 †	1	25	250	0.09
W 01047 †	1-1/8	25	250	0.11
W 01055 †	1-3/8	25	250	0.15
W 01062 †	1-1/2	–	150	0.22
W 01063 †	1-5/8	10	100	0.21
W 01072 †	2-1/8	–	75	0.4
W 01082 †	2-5/8	–	50	0.66
W 01092	3-1/8	–	25	1.03
W 10100	3-5/8	–	20	1.18
W 10107	4-1/8	–	15	2.11

† UL Recognized to 700 PSI (select sizes)

COUPLING

STACKED STOP
WC-400S
C x C

Part	Size	Box	Ctn	Wt
W 10141 †	1/4	100	3,400	0
W 10142 †	5/16	100	5,600	0.01
W 10143 †	3/8	50	2,000	0.01
W 10144 †	1/2	50	1,700	0.01
W 10145 †	5/8	100	1,000	0.03
W 10157 †	3/4	25	500	0.04
W 10146 †	7/8	50	500	0.06
W 10147 †	1-1/8	25	250	0.11
W 10148 †	1-3/8	25	250	0.15
W 10149 †	1-5/8	10	100	0.22
W 10150 †	2-1/8	–	75	0.41
W 10151 †	2-5/8	–	50	0.66
W 10152	3-1/8	–	25	1.02
W 10153	3-5/8	–	20	1.03
W 10154	4-1/8	–	15	2.15
W 10155	5-1/8	–	8	3.34
W 10156	6-1/8	–	3	4.61
W 10130	8-1/8	–	1	14.13

COUPLING

REDUCING
WC-400R
C x C

Part	Size	Box	Ctn	Wt
W 01004 †	1/4 x 3/16	50	2,000	0.01
W 01005 †	x 1/8	50	2,000	0
W 01010 †	3/8 x 5/16	50	1,700	0.01
W 01011 †	x 1/4	50	2,000	0.01
W 01019 †	1/2 x 3/8	50	1,700	0.01
W 01021 †	x 1/4	50	1,200	0.02
W 01023 †	5/8 x 1/2	100	1,000	0.03
W 01025 †	x 3/8	100	1,000	0.03
W 01027 †	x 1/4	100	1,000	0.03
W 01029 †	3/4 x 5/8	100	600	0.05
W 01030 †	x 1/2	100	600	0.04
W 01031 †	x 3/8	100	600	0.04
W 01035 †	7/8 x 3/4	100	1,000	0.06
W 01036 †	x 5/8	50	500	0.08
W 01037 †	7/8 x 1/2	50	500	0.06
W 01038 †	x 3/8	50	500	0.06
W 01049 †	1-1/8 x 7/8	25	250	0.13
W 01050 †	x 3/4	25	250	0.11
W 01051 †	x 5/8	25	250	0.11
W 01052 †	x 1/2	25	250	0.11
W 01056 †	1-3/8 x 1-1/8	10	100	0.2
W 01058 †	x 7/8	10	100	0.17
W 01060 †	x 5/8	10	100	0.17
W 01064 †	1-5/8 x 1-3/8	10	100	0.23
W 01065 †	x 1-1/8	10	100	0.23
W 01067 †	x 7/8	10	100	0.24
W 01069 †	x 5/8	10	100	0.22
W 01073 †	2-1/8 x 1-5/8	–	100	0.43
W 01074 †	x 1-3/8	–	100	0.43
W 01075 †	x 1-1/8	–	100	0.46
W 01077 †	x 7/8	–	100	0.4
W 01079 †	x 5/8	–	75	0.41
W 01083 †	2-5/8 x 2-1/8	–	50	0.65
W 01084 †	x 1-5/8	–	50	0.75
W 01085 †	x 1-3/8	–	50	0.7
W 01086 †	x 1-1/8	–	50	0.71
W 01093	3-1/8 x 2-5/8	–	25	1.06
W 01094	x 2-1/8	–	25	1.1
W 01095	x 1-5/8	–	25	1.01
W 10101	3-5/8 x 3-1/8	–	25	1.22
W 10108	4-1/8 x 3-5/8	–	20	1.87
W 10109	x 3-1/8	–	20	0.76
W 10110	x 2-5/8	–	15	1.88
W 10111	x 2-1/8	–	20	1.97

45° ELBOW

WE-504
C x C

Part	Size	Box	Ctn	Wt
W 03005 †	1/4	50	2,000	0.01
W 03012 †	3/8	50	2,800	0.01
W 03021 †	1/2	50	850	0.03
W 03026 †	5/8	50	500	0.04
W 03030 †	3/4	50	500	0.06
W 03034 †	7/8	25	250	0.09
W 03044 †	1-1/8	25	250	0.16
W 03050 †	1-3/8	10	100	0.25
W 03055 †	1-5/8	10	100	0.36
W 03059 †	2-1/8	10	50	0.6
W 03063 †	2-5/8	5	25	1
W 03067	3-1/8	2	20	1.53
W 03070	3-5/8	2	10	2.81
W 03073	4-1/8	–	5	3.14

45° ELBOW

STREET
WE-505
FTG x C

Part	Size	Box	Ctn	Wt
W 03312 †	3/8	100	3,400	0.01
W 03321 †	1/2	100	1,500	0.03
W 03326 †	5/8	50	500	0.03
W 03330 †	3/4	50	500	0.06
W 03334 †	7/8	25	250	0.09
W 03344 †	1-1/8	25	250	0.15
W 03350 †	1-3/8	10	100	0.24
W 03355 †	1-5/8	10	100	0.33
W 03359 †	2-1/8	5	50	0.61
W 03363 †	2-5/8	2	20	1.05
W 03368	3-1/8	2	10	1.52
W 03373	4-1/8	–	5	3.11

45° ELBOW

WE-507
FTG x FTG

Part	Size	Box	Ctn	Wt
W 03621 †	1/2	50	1,700	0.02
W 03626 †	5/8	50	750	0.04
W 03634 †	7/8	25	250	0.1
W 03644 †	1-1/8	10	100	0.18

90° ELBOW

SHORT RADIUS
WE-500
C x C

Part	Size	Box	Ctn	Wt
W 02003 †	1/4	50	2,000	0.01
W 02009 †	3/8	50	1,700	0.02
W 02017 †	1/2	50	1,000	0.03
W 02022 †	5/8	100	1,000	0.05
W 02028 †	3/4	50	500	0.08
W 02034 †	7/8	50	500	0.11
W 02040 †	1	20	200	0.22
W 02047 †	1-1/8	25	250	0.24
W 02084 †	1-3/8	10	100	0.3
W 02085 †	1-5/8	10	100	0.42
W 02086 †	2-1/8	10	50	0.76
W 02087 †	2-5/8	5	25	1.19
W 02088	3-1/8	5	25	1.88
W 02089	3-5/8	2	10	2.77
W 02090	4-1/8	2	10	4
W 02097	6-1/8	–	1	13.73
REDUCING				
W 02011 †	3/8 x 1/4	50	750	0.02
W 02019 †	1/2 x 3/8	50	750	0.03
W 02023 †	5/8 x 1/2	50	500	0.05
W 02025 †	x 3/8	50	500	0.05
W 02029 †	3/4 x 5/8	50	500	0.06
W 02030 †	x 1/2	50	500	0.07
W 02035 †	7/8 x 3/4	50	500	0.11
W 02036 †	x 5/8	50	500	0.11
W 02037 †	x 1/2	50	500	0.11
W 02049 †	1-1/8 x 7/8	25	250	0.17
W 02050 †	x 3/4	25	250	0.16
W 02051 †	x 5/8	25	250	0.18
W 02052 †	x 1/2	25	150	0.2
W 02056 †	1-3/8 x 1-1/8	20	200	0.32
W 02077 †	1-5/8 x 1-3/8	5	100	0.33
W 02078 †	2-1/8 x 1-5/8	5	50	0.6

90° ELBOW

LONG RADIUS
WE-500L
C x C

Part	Size	Box	Ctn	Wt
W 02701 †	3/16	50	1,000	0
W 02715 †	1/4	50	2,000	0.01
W 02710 †	5/16	50	1,700	0.01
W 02716 †	3/8	50	1,700	0.02
W 02717 †	1/2	50	500	0.04
W 02722 †	5/8	50	500	0.06
W 02728 †	3/4	50	500	0.09
W 02734 †	7/8	25	250	0.13
W 02747 †	1-1/8	10	100	0.27
W 02055 †	1-3/8	10	100	0.42
W 02063 †	1-5/8	5	50	0.6
W 02072 †	2-1/8	5	25	1.23
W 02082 †	2-5/8	5	25	2.05
W 02092	3-1/8	2	10	3.13
W 02093	3-5/8	1	5	5.53
W 02095	4-1/8	–	1	7.98
REDUCING				
W 02711 †	3/8 x 1/4	50	3,000	0.01
W 02719 †	1/2 x 3/8	50	2,000	0.03
W 02723 †	5/8 x 1/2	50	1,000	0.04
W 02725 †	x 3/8	50	1,000	0.03
W 02735 †	7/8 x 3/4	25	250	0.12
W 02736 †	x 5/8	50	500	0.09
W 02749 †	1-1/8 x 7/8	10	100	0.17
W 02756 †	1-3/8 x 1-1/8	10	100	0.31
W 02058 †	x 7/8	10	100	0.37
W 02060 †	x 5/8	10	100	0.37
W 02064 †	1-5/8 x 1-3/8	5	50	0.44
W 02065 †	x 1-1/8	5	50	0.52
W 02067 †	x 7/8	5	50	0.51
W 02073 †	2-1/8 x 1-5/8	2	20	0.98
W 02074 †	x 1-3/8	2	20	0.94
W 02075 †	x 1-1/8	2	20	0.97
W 02083 †	2-5/8 x 2-1/8	2	20	1.53

90° ELBOW

STREET SHORT RADIUS
WE-503
FTG x C

Part	Size	Box	Ctn	Wt
W 02305 †	1/4	50	2,000	0.01
W 02312 †	3/8	50	1,700	0.02
W 02321 †	1/2	50	750	0.03
W 02326 †	5/8	50	500	0.05
W 02330 †	3/4	25	250	0.09
W 02334 †	7/8	25	250	0.11
W 02344 †	1-1/8	25	250	0.22
W 02384 †	1-3/8	25	125	0.29
W 02385 †	1-5/8	10	100	0.44
W 02386 †	2-1/8	10	50	0.77
W 02387 †	2-5/8	5	25	1.23
W 02388	3-1/8	2	20	1.94
W 02389	3-5/8	1	10	2.78
W 02390	4-1/8	2	10	4.03

90° ELBOW

STREET LONG RADIUS
WE-503L
FTG x C

Part	Size	Box	Ctn	Wt
W 02809 †	3/8	50	1,700	0.02
W 02817 †	1/2	50	500	0.04
W 02822 †	5/8	50	500	0.06
W 02828 †	3/4	25	250	0.09
W 02834 †	7/8	25	250	0.13
W 02847 †	1-1/8	10	100	0.26
W 02350 †	1-3/8	10	100	0.42
W 02355 †	1-5/8	5	50	0.6
W 02359 †	2-1/8	5	25	1.23
W 02363 †	2-5/8	5	25	2.08
W 02368	3-1/8	2	10	3.12
W 02393	3-5/8	1	5	5.52
W 02395	4-1/8	–	1	8.07

† UL Recognized to 700 PSI (select sizes)