

COPPER FITTINGS FOR HVAC/R APPLICATIONS

Project Name	Contractor
Job Name	Wholesaler
Hailiang Rep	Engineer

Product Description:

Hailiang Wrot Copper Fittings: For use with refrigeration applications. Specified product size range 1/4" to 8-1/8" (OD). Product is designed to join ASTM B280, ASTM B743 and ASTM B88

Material:

Hailiang Wrot Copper fittings shall be made from UNS C12200 grade of copper and compliant with ASTM B75.

Key Specifications:

Hailiang Wrot Copper, solder-joint, pressure fittings shall conform to ASME B16.22 and MSS SP104.

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:


ASME B16.22	Wrot Copper and Copper Alloy Solder Joint Pressure Fittings
MSS SP104	Wrot Copper Solder and Joint Pressure Fittings
ASTM B75	Seamless Copper Tube
C12200	99.9% Pure Copper


Other Applicable Standards:


ASTM B88	Seamless Water and Gas Tube (Types K, L, M)
ASTM B280	Seamless Copper Tube for Air Conditioning and Refrigeration
ASTM B743	Seamless Copper Tube for Air Conditioning Refrigeration Field Service


Copper Fittings: Wrot Pressure


Male Adapter C X M 					Female Adapter C X F 				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn	HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-101-0001	1/8	1/4 x 1/8	25	3000	HL15-105-0001	1/8	1/4 x 1/8	25	1500
HL15-101-0002	1/4	3/8 x 1/4	25	1600	HL15-105-0002	1/4	3/8 x 1/4	25	1000
HL15-101-0025	3/8	1/2 x 3/8	25	1000	HL15-105-0025	3/8	1/2 x 3/8	25	800
HL15-101-0050	1/2	5/8 x 1/2	25	600	HL15-105-0050	1/2	5/8 x 1/2	25	450
HL15-101-0100	3/4	7/8 x 3/4	25	250	HL15-105-0100	3/4	7/8 x 3/4	25	200
HL15-101-0150	1	1 1/8 x 1	10	150	HL15-105-0150	1	1 1/8 x 1	10	140
HL15-101-0215	1 1/4	1 3/8 x 1 1/4		110	HL15-105-0215	1 1/4	1 3/8 x 1 1/4		80
HL15-101-0295	1 1/2	1 5/8 x 1 1/2	65		HL15-105-0295	1 1/2	1 5/8 x 1 1/2	60	
HL15-101-0390	2	2 1/8 x 2	38		HL15-105-0390	2	2 1/8 x 2	36	
HL15-101-0520	2 1/2	2 5/8 x 2 1/2	48		HL15-105-0520	2 1/2	2 5/8 x 2 1/2	48	
HL15-101-0650	3	3 1/8 x 3	24		HL15-105-0650	3	3 1/8 x 3	30	
HL15-101-0860	4	4 1/8 x 4		12					
Reducing					Reducing				
HL15-101-0024	1/8 x 1/4	1/4 x 1/4	25	4000	HL15-105-0024	1/8 x 1/4	1/4 x 1/4	25	1000
HL15-101-0005	1/4 x 1/2	3/8 x 1/2	25	600	HL15-105-0006	1/4 x 3/8	3/8 x 3/8	25	900
HL15-101-0006	1/4 x 3/8	3/8 x 3/8	25	750	HL15-105-0031	3/8 x 1/2	1/2 x 1/2	25	500
HL15-101-0007	1/4 x 1/8	3/8 x 1/8	25	2000	HL15-105-0032	3/8 x 1/4	1/2 x 1/4	25	750
HL15-101-0031	3/8 x 1/2	1/2 x 1/2	25	500	HL15-105-0056	1/2 x 1	5/8 x 1	10	160
HL15-101-0032	3/8 x 1/4	1/2 x 1/4	25	750	HL15-105-0057	1/2 x 3/4	5/8 x 3/4	25	300
HL15-101-0056	1/2 x 1	5/8 x 1	10	150	HL15-105-0058	1/2 x 3/8	5/8 x 3/8	25	800
HL15-101-0057	1/2 x 3/4	5/8 x 3/4	25	250	HL15-105-0059	1/2 x 1/4	5/8 x 1/4	25	500
HL15-101-0058	1/2 x 3/8	5/8 x 3/8	25	800	HL15-105-0060	1/2 x 1/8	5/8 x 1/8	25	500
HL15-101-0059	1/2 x 1/4	5/8 x 1/4	25	1000	HL15-105-0092	5/8 x 3/4	3/4 x 3/4	25	250
HL15-101-0092	5/8 x 3/4	3/4 x 3/4	25	250	HL15-105-0093	5/8 x 1/2	3/4 x 1/2	25	250
HL15-101-0093	5/8 x 1/2	3/4 x 1/2	25	250	HL15-105-0106	3/4 x 1	7/8 x 1	10	140
HL15-101-0106	3/4 x 1	7/8 x 1	10	150	HL15-105-0107	3/4 x 1/2	7/8 x 1/2	25	300
HL15-101-0107	3/4 x 1/2	7/8 x 1/2	25	250	HL15-105-0158	1 x 1 1/4	1 1/8 x 1 1/4		85
HL15-101-0157	1 x 1 1/2	1 1/8 x 1 1/2	65		HL15-105-0159	1 x 3/4	1 1/8 x 3/4	10	150
HL15-101-0158	1 x 1 1/4	1 1/8 x 1 1/4		85	HL15-105-0160	1 x 1/2	1 1/8 x 1/2	10	150
HL15-101-0159	1 x 3/4	1 1/8 x 3/4	10	150	HL15-105-0221	1 1/4 x 1 1/2	1 3/8 x 1 1/2		65
HL15-101-0160	1 x 1/2	1 1/8 x 1/2	10	180	HL15-105-0222	1 1/4 x 1	1 3/8 x 1		120
HL15-101-0221	1 1/4 x 1 1/2	1 3/8 x 1 1/2		90	HL15-105-0223	1 1/4 x 3/4	1 3/8 x 3/4		120
HL15-101-0222	1 1/4 x 1	1 3/8 x 1		120	HL15-105-0302	1 1/2 x 2	1 5/8 x 2		60
HL15-101-0223	1 1/4 x 3/4	1 3/8 x 3/4		130	HL15-105-0303	1 1/2 x 1 1/4	1 5/8 x 1 1/4		70
HL15-101-0302	1 1/2 x 2	1 5/8 x 2		50	HL15-105-0398	2 x 1 1/2	2 1/8 x 1 1/2		40
HL15-101-0303	1 1/2 x 1 1/4	1 5/8 x 1 1/4		60					
HL15-101-0304	1 1/2 x 1	1 5/8 x 1		120	Fitting Female Adapter Ftg X F 				
HL15-101-0398	2 x 1 1/2	2 1/8 x 1 1/2		48	HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-101-0399	2 x 1 1/4	2 1/8 x 1 1/4		48	HL15-115-0002	1/4	3/8 x 1/4	25	1500
HL15-101-0531	2 1/2 x 2	2 5/8 x 2		36	HL15-115-0025	3/8	1/2 x 3/8	25	800
					HL15-115-0050	1/2	5/8 x 1/2	25	500
					HL15-115-0057	1/2 x 3/4	5/8 x 3/4	25	300
					HL15-115-0058	1/2 x 3/8	5/8 x 3/8	25	700
					HL15-115-0100	3/4	7/8 x 3/4	25	250
					HL15-115-0150	1	1 1/8 x 1	10	140
					HL15-115-0215	1 1/4	1 3/8 x 1 1/4		85
					HL15-115-0295	1 1/2	1 5/8 x 1 1/2		80
					HL15-115-0390	2	2 1/8 x 2		40
Fitting Male Adapter Ftg X M 									
HLAC Part #	Nominal Size	OD Size	Bag	Ctn					
HL15-114-0002	1/4	3/8 x 1/4	25	1000					
HL15-114-0025	3/8	1/2 x 3/8	25	800					
HL15-114-0050	1/2	5/8 x 1/2	25	500					
HL15-114-0057	1/2 x 3/4	5/8 x 3/4	25	250					
HL15-114-0100	3/4	7/8 x 3/4	25	250					
HL15-114-0150	1	1 1/8 x 1	10	130					
HL15-114-0215	1 1/4	1 3/8 x 1 1/4		80					
HL15-114-0295	1 1/2	1 5/8 x 1 1/2		50					
HL15-114-0390	2	2 1/8 x 2		38					


Flush Bushing Ftg X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-140-0032	3/8 x 1/4	1/2 x 3/8	25	2500
HL15-140-0058	1/2 x 3/8	5/8 x 1/2	25	1500
HL15-140-0059	1/2 x 1/4	5/8 x 3/8	25	1500
HL15-140-0093	5/8 x 1/2	3/4 x 5/8	25	500
HL15-140-0149	3/4 x 5/8	7/8 x 3/4	25	700
HL15-140-0107	3/4 x 1/2	7/8 x 5/8	25	700
HL15-140-0108	3/4 x 3/8	7/8 x 1/2	30	600
HL15-140-0109	3/4 x 1/4	7/8 x 3/8	25	700
HL15-140-1498	1 x 5/8	1 1/8 x 3/4	10	320
HL15-140-0159	1 x 3/4	1 1/8 x 7/8	10	300
HL15-140-0160	1 x 1/2	1 1/8 x 5/8	10	320
HL15-140-0222	1 1/4 x 1	1 3/8 x 1 1/8	200	
HL15-140-0223	1 1/4 x 3/4	1 3/8 x 7/8	200	
HL15-140-0303	1 1/2 x 1 1/4	1 5/8 x 1 3/8	140	
HL15-140-0398	2 x 1 1/2	2 1/8 x 1 5/8	60	


Cap				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-154-0001	1/8	1/4	25	3300
HL15-154-0002	1/4	3/8	25	3000
HL15-154-0025	3/8	1/2	25	2500
HL15-154-0050	1/2	5/8	25	1400
HL15-154-0090	5/8	3/4	25	850
HL15-154-0100	3/4	7/8	25	500
HL15-154-0150	1	1 1/8	10	300
HL15-154-0215	1 1/4	1 3/8	200	
HL15-154-0295	1 1/2	1 5/8	140	
HL15-154-0390	2	2 1/8	60	
HL15-154-0520	2 1/2	2 5/8	30	
HL15-154-0650	3	3 1/8	20	
HL15-154-0780	3 1/2	3 5/8	25	
HL15-154-0860	4	4 1/8	25	
HL15-154-1100	6	6 1/8	5	


Coupling w/Rolled Tube Stop C X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-165-0001	1/8	1/4	25	3000
HL15-165-0002	1/4	3/8	25	2000
HL15-165-0015	-	5/16	25	3000
HL15-165-0025	3/8	1/2	25	1200
HL15-165-0050	1/2	5/8	25	800
HL15-165-0090	5/8	3/4	25	400
HL15-165-0100	3/4	7/8	25	300
HL15-165-0150	1	1 1/8	10	150
HL15-165-0215	1 1/4	1 3/8	100	
HL15-165-0295	1 1/2	1 5/8	60	
HL15-165-0390	2	2 1/8	40	
HL15-165-0520	2 1/2	2 5/8	50	
HL15-165-0650	3	3 1/8	30	
HL15-165-0780	3 1/2	3 5/8	20	
HL15-165-0860	4	4 1/8	12	
HL15-165-0975	5	5 1/8	6	
HL15-165-1100	6	6 1/8	3	
HL15-165-1225	8	8 1/8	1	


Reducing Coupling C X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-165-0007	1/4 x 1/8	3/8 x 1/4	25	2000
HL15-165-0008	-	1/4 x 3/16	25	2000
HL15-165-0032	3/8 x 1/4	1/2 x 3/8	100	800
HL15-165-0033	3/8 x 1/8	1/2 x 1/4	25	800
HL15-165-0058	1/2 x 3/8	5/8 x 1/2	25	800
HL15-165-0059	1/2 x 1/4	5/8 x 3/8	25	800
HL15-165-0060	1/2 x 1/8	5/8 x 1/4	25	800
HL15-165-0093	5/8 x 1/2	3/4 x 5/8	25	500
HL15-165-0094	5/8 x 3/8	3/4 x 1/2	25	500
HL15-165-0095	5/8 x 1/4	3/4 x 3/8	25	500
HL15-165-0149	3/4 x 5/8	7/8 x 3/4	25	350
HL15-165-0107	3/4 x 1/2	7/8 x 5/8	25	350
HL15-165-0108	3/4 x 3/8	7/8 x 1/2	25	400
HL15-165-0109	3/4 x 1/4	7/8 x 3/8	25	400
HL15-165-1498	1 x 5/8	1 1/8 x 3/4	10	200
HL15-165-0159	1 x 3/4	1 1/8 x 7/8	10	160
HL15-165-0160	1 x 1/2	1 1/8 x 5/8	10	200
HL15-165-0222	1 1/4 x 1	1 3/8 x 1 1/8	100	
HL15-165-0223	1 1/4 x 3/4	1 3/8 x 7/8	100	
HL15-165-0224	1 1/4 x 1/2	1 3/8 x 5/8	100	
HL15-165-0303	1 1/2 x 1 1/4	1 5/8 x 1 3/8	100	
HL15-165-0304	1 1/2 x 1	1 5/8 x 1 1/8	100	
HL15-165-0305	1 1/2 x 3/4	1 5/8 x 7/8	100	
HL15-165-0306	1 1/2 x 1/2	1 5/8 x 5/8	100	
HL15-165-0398	2 x 1 1/2	2 1/8 x 1 5/8	50	
HL15-165-0399	2 x 1 1/4	2 1/8 x 1 3/8	50	
HL15-165-0400	2 x 1	2 1/8 x 1 1/8	50	
HL15-165-0401	2 x 3/4	2 1/8 x 7/8	50	
HL15-165-0402	2 x 1/2	2 1/8 x 5/8	50	
HL15-165-0531	2 1/2 x 2	2 5/8 x 2 1/8	30	
HL15-165-0532	2 1/2 x 1 1/2	2 5/8 x 1 5/8	30	
HL15-165-0533	2 1/2 x 1 1/4	2 5/8 x 1 3/8	30	
HL15-165-0534	2 1/2 x 1	2 5/8 x 1 1/8	30	
HL15-165-0662	3 x 2 1/2	3 1/8 x 2 5/8	15	
HL15-165-0663	3 x 2	3 1/8 x 2 1/8	20	
HL15-165-0664	3 x 1 1/2	3 1/8 x 1 5/8	20	
HL15-165-0870	4 x 3	4 1/8 x 3 1/8	18	
HL15-165-0871	4 x 2 1/2	4 1/8 x 2 5/8	18	
HL15-165-0872	4 x 2	4 1/8 x 2 1/8	18	
HL15-165-1109	6 x 4	6 1/8 x 4 1/8	4	
HL15-165-1111	6 x 3	6 1/8 x 3 1/8	4	


Coupling w/Dimple Tube Stop C X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-170-0001	1/8	1/4	25	3000
HL15-170-0002	1/4	3/8	25	2000
HL15-170-0025	3/8	1/2	25	1200
HL15-170-0050	1/2	5/8	25	800
HL15-170-0090	5/8	3/4	25	400
HL15-170-0100	3/4	7/8	25	300
HL15-170-0150	1	1 1/8	10	150
HL15-170-0215	1 1/4	1 3/8	100	
HL15-170-0295	1 1/2	1 5/8	60	
HL15-170-0390	2	2 1/8	40	
HL15-170-0520	2 1/2	2 5/8	50	
HL15-170-0650	3	3 1/8	30	
HL15-170-0860	4	4 1/8	12	
HL15-170-0975	5	5 1/8	6	
HL15-170-1100	6	6 1/8	3	
HL15-170-1225	8	8 1/8	1	


Coupling Less Tube Stop C X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-172-0001	1/8	1/4	25	3000
HL15-172-0002	1/4	3/8	25	2000
HL15-172-0025	3/8	1/2	25	1200
HL15-172-0050	1/2	5/8	25	800
HL15-172-0090	5/8	3/4	25	400
HL15-172-0100	3/4	7/8	25	300
HL15-172-0150	1	1 1/8	10	150
HL15-172-0215	1 1/4	1 3/8	100	
HL15-172-0295	1 1/2	1 5/8	60	
HL15-172-0390	2	2 1/8	40	
HL15-172-0520	2 1/2	2 5/8	50	
HL15-172-0650	3	3 1/8	30	
HL15-172-0860	4	4 1/8	12	
HL15-172-0975	5	5 1/8	6	

90° Long Turn Ell C X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-242-0001	1/8	1/4	25	2000
HL15-242-0002	1/4	3/8	25	1200
HL15-242-0015	-	5/16	25	1600
HL15-242-0025	3/8	1/2	25	750
HL15-242-0050	1/2	5/8	25	350
HL15-242-0090	5/8	3/4	25	200
HL15-242-0100	3/4	7/8	10	120
HL15-242-0150	1	1 1/8	10	60
HL15-242-0215	1 1/4	1 3/8		35
HL15-242-0295	1 1/2	1 5/8		25
HL15-242-0390	2	2 1/8		12
HL15-242-0520	2 1/2	2 5/8		16
HL15-242-0650	3	3 1/8		8
HL15-242-0860	4	4 1/8		3


90° Short Turn Ell C X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-235-0001	1/8	1/4	25	3000
HL15-235-0002	1/4	3/8	25	1200
HL15-235-0025	3/8	1/2	25	1000
HL15-235-0050	1/2	5/8	100	800
HL15-235-0090	5/8	3/4	25	300
HL15-235-0100	3/4	7/8	25	250
HL15-235-0150	1	1 1/8	10	100
HL15-235-0215	1 1/4	1 3/8	50	
HL15-235-0295	1 1/2	1 5/8	35	
HL15-235-0390	2	2 1/8	17	
HL15-235-0520	2 1/2	2 5/8	20	
HL15-235-0650	3	3 1/8	13	
HL15-235-0860	4	4 1/8	6	
HL15-235-0975	5	5 1/8	2	
HL15-235-1100	6	6 1/8	1	
HL15-235-1225	8	8 1/8	1	
Reducing				
HL15-235-0032	3/8 x 1/4	1/2 x 3/8	25	800
HL15-235-0058	1/2 x 3/8	5/8 x 1/2	25	500
HL15-235-0059	1/2 x 1/4	5/8 x 3/8	25	500
HL15-235-0107	3/4 x 1/2	7/8 x 5/8	25	200
HL15-235-0159	1 x 3/4	1 1/8 x 7/8	10	80
HL15-235-0160	1 x 1/2	1 1/8 x 5/8	10	80
HL15-235-0222	1 1/4 x 1	1 3/8 x 1 1/8	50	
HL15-235-0223	1 1/4 x 3/4	1 3/8 x 7/8	50	
HL15-235-0303	1 1/2 x 1 1/4	1 5/8 x 1 3/8	35	
HL15-235-0398	2 x 1 1/2	2 1/8 x 1 5/8	17	


90° Short Turn Street Ell Ftg X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-254-0002	1/4	3/8	25	1200
HL15-254-0025	3/8	1/2	25	1000
HL15-254-0050	1/2	5/8	25	500
HL15-254-0090	5/8	3/4	25	300
HL15-254-0100	3/4	7/8	25	200
HL15-254-0150	1	1 1/8	10	100
HL15-254-0215	1 1/4	1 3/8	50	
HL15-254-0295	1 1/2	1 5/8	35	
HL15-254-0390	2	2 1/8	17	
HL15-254-0520	2 1/2	2 5/8	20	
HL15-254-0650	3	3 1/8	13	
HL15-254-0860	4	4 1/8	6	


90° Long Turn Street Ell Ftg X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-272-0001	1/8	1/4	25	2000
HL15-272-0002	1/4	3/8	25	1200
HL15-272-0025	3/8	1/2	25	750
HL15-272-0050	1/2	5/8	25	350
HL15-272-0090	5/8	3/4	25	200
HL15-272-0100	3/4	7/8	10	120
HL15-272-0150	1	1 1/8	10	60
HL15-272-0215	1 1/4	1 3/8		35
HL15-272-0295	1 1/2	1 5/8		25
HL15-272-0390	2	2 1/8		12
HL15-272-0520	2 1/2	2 5/8		16
HL15-272-0650	3	3 1/8		8
HL15-272-0860	4	4 1/8		3

45° Ell C X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-290-0001	1/8	1/4	25	2000
HL15-290-0002	1/4	3/8	25	2000
HL15-290-0025	3/8	1/2	25	800
HL15-290-0050	1/2	5/8	25	500
HL15-290-0090	5/8	3/4	25	300
HL15-290-0100	3/4	7/8	25	200
HL15-290-0150	1	1 1/8	10	100
HL15-290-0215	1 1/4	1 3/8		60
HL15-290-0295	1 1/2	1 5/8		40
HL15-290-0390	2	2 1/8		18
HL15-290-0520	2 1/2	2 5/8		20
HL15-290-0650	3	3 1/8		15
HL15-290-0860	4	4 1/8		6
HL15-290-0975	5	5 1/8		4
HL15-290-1100	6	6 1/8		2

Fitting Reducer (Continued)				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-410-0400	2 x 1	2 1/8 x 1 1/8		50
HL15-410-0401	2 x 3/4	2 1/8 x 7/8		50
HL15-410-0402	2 x 1/2	2 1/8 x 5/8		50
HL15-410-0531	2 1/2 x 2	2 5/8 x 2 1/8		30
HL15-410-0532	2 1/2 x 1 1/2	2 5/8 x 1 5/8		30
HL15-410-0533	2 1/2 x 1 1/4	2 5/8 x 1 3/8		30
HL15-410-0534	2 1/2 x 1	2 5/8 x 1 1/8		30
HL15-410-0662	3 x 2 1/2	3 1/8 x 2 5/8		15
HL15-410-0663	3 x 2	3 1/8 x 2 1/8		20
HL15-410-0664	3 x 1 1/2	3 1/8 x 1 5/8		20
HL15-410-0665	3 x 1 1/4	3 1/8 x 1 3/8		20
HL15-410-0870	4 x 3	4 1/8 x 3 1/8		18
HL15-410-0871	4 x 2 1/2	4 1/8 x 2 5/8		18
HL15-410-0872	4 x 2	4 1/8 x 2 1/8		18
HL15-410-0874	4 x 1 1/4	4 1/8 x 1 3/8		20

45° Street Ell Ftg X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-295-0002	1/4	3/8	25	2000
HL15-295-0025	3/8	1/2	25	800
HL15-295-0050	1/2	5/8	25	500
HL15-295-0090	5/8	3/4	25	300
HL15-295-0100	3/4	7/8	25	200
HL15-295-0150	1	1 1/8	10	100
HL15-295-0215	1 1/4	1 3/8		60
HL15-295-0295	1 1/2	1 5/8		40
HL15-295-0390	2	2 1/8		18
HL15-295-0520	2 1/2	2 5/8		20
HL15-295-0650	3	3 1/8		15
HL15-295-0860	4	4 1/8		6


Tee C X C X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-460-0001	1/8	1/4	25	2000
HL15-460-0002	1/4	3/8	25	1300
HL15-460-0025	3/8	1/2	25	600
HL15-460-0050	1/2	5/8	50	500
HL15-460-0090	5/8	3/4	25	200
HL15-460-0100	3/4	7/8	20	160
HL15-460-0150	1	1 1/8	10	60
HL15-460-0215	1 1/4	1 3/8		35
HL15-460-0295	1 1/2	1 5/8		20
HL15-460-0390	2	2 1/8		30
HL15-460-0520	2 1/2	2 5/8		15
HL15-460-0650	3	3 1/8		10
HL15-460-0860	4	4 1/8		5
HL15-460-0975	5	5 1/8		2
HL15-460-1100	6	6 1/8		1


Fitting Reducer Ftg X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-410-0007	1/4 x 1/8	3/8 x 1/4	25	3300
HL15-410-0032	3/8 x 1/4	1/2 x 3/8	25	1200
HL15-410-0033	3/8 x 1/8	1/2 x 1/4	25	1200
HL15-410-0058	1/2 x 3/8	5/8 x 1/2	25	1000
HL15-410-0059	1/2 x 1/4	5/8 x 3/8	25	1000
HL15-410-0093	5/8 x 1/2	3/4 x 5/8	25	500
HL15-410-0094	5/8 x 3/8	3/4 x 1/2	25	500
HL15-410-0149	3/4 x 5/8	7/8 x 3/4	25	400
HL15-410-0107	3/4 x 1/2	7/8 x 5/8	25	400
HL15-410-0108	3/4 x 3/8	7/8 x 1/2	25	400
HL15-410-0109	3/4 x 1/4	7/8 x 3/8	25	400
HL15-410-1498	1 x 5/8	1 1/8 x 3/4	10	200
HL15-410-0159	1 x 3/4	1 1/8 x 7/8	10	160
HL15-410-0160	1 x 1/2	1 1/8 x 5/8	10	200
HL15-410-0161	1 x 3/8	1 1/8 x 1/2	10	200
HL15-410-0222	1 1/4 x 1	1 3/8 x 1 1/8		100
HL15-410-0223	1 1/4 x 3/4	1 3/8 x 7/8		100
HL15-410-0224	1 1/4 x 1/2	1 3/8 x 5/8		100
HL15-410-0303	1 1/2 x 1 1/4	1 5/8 x 1 3/8		100
HL15-410-0304	1 1/2 x 1	1 5/8 x 1 1/8		100
HL15-410-0305	1 1/2 x 3/4	1 5/8 x 7/8		100
HL15-410-0306	1 1/2 x 1/2	1 5/8 x 5/8		100
HL15-410-0398	2 x 1 1/2	2 1/8 x 1 5/8		50
HL15-410-0399	2 x 1 1/4	2 1/8 x 1 3/8		50


Reducing				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-460-0006	1/4 x 1/4 x 3/8	3/8 x 3/8 x 1/2	25	500
HL15-460-0013	1/4 x 1/8 x 1/8	3/8 x 1/4 x 1/4	25	1500
HL15-460-0031	3/8 x 3/8 x 1/2	1/2 x 1/2 x 5/8	25	350
HL15-460-0032	3/8 x 3/8 x 1/4	1/2 x 1/2 x 3/8	25	600
HL15-460-0041	3/8 x 1/4 x 1/4	1/2 x 3/8 x 3/8	25	350
HL15-460-0056	1/2 x 1/2 x 1	5/8 x 5/8 x 1 1/8	10	70
HL15-460-0057	1/2 x 1/2 x 3/4	5/8 x 5/8 x 7/8	10	180
HL15-460-0058	1/2 x 1/2 x 3/8	5/8 x 5/8 x 1/2	25	400
HL15-460-0059	1/2 x 1/2 x 1/4	5/8 x 5/8 x 3/8	25	400
HL15-460-0060	1/2 x 1/2 x 1/8	5/8 x 5/8 x 1/4	25	400
HL15-460-0066	1/2 x 3/8 x 1/2	5/8 x 1/2 x 5/8	25	350
HL15-460-0067	1/2 x 3/8 x 3/8	5/8 x 1/2 x 1/2	25	400
HL15-460-0075	1/2 x 1/4 x 1/2	5/8 x 3/8 x 5/8	25	400
HL15-460-0095	5/8 x 5/8 x 1/4	3/4 x 3/4 x 3/8	25	400
HL15-460-0098	5/8 x 1/2 x 1/2	3/4 x 5/8 x 5/8	25	200
HL15-460-0106	3/4 x 3/4 x 1	7/8 x 7/8 x 1 1/8	10	80
HL15-460-0149	3/4 x 3/4 x 5/8	7/8 x 7/8 x 3/4	10	150
HL15-460-0107	3/4 x 3/4 x 1/2	7/8 x 7/8 x 5/8	10	170
HL15-460-0108	3/4 x 3/4 x 3/8	7/8 x 7/8 x 1/2	10	170
HL15-460-0109	3/4 x 3/4 x 1/4	7/8 x 7/8 x 3/8	10	170
HL15-460-0117	3/4 x 1/2 x 3/4	7/8 x 5/8 x 7/8	10	120
HL15-460-0118	3/4 x 1/2 x 1/2	7/8 x 5/8 x 5/8	10	180
HL15-460-0157	1 x 1 x 1 1/2	1 1/8 x 1 1/8 x 1 5/8		25
HL15-460-0158	1 x 1 x 1 1/4	1 1/8 x 1 1/8 x 1 3/8		35
HL15-460-1498	1 x 1 x 5/8	1 1/8 x 1 1/8 x 3/4	10	70
HL15-460-0159	1 x 1 x 3/4	1 1/8 x 1 1/8 x 7/8	10	60

Tee (Continued)				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-460-0160	1 x 1 x 1/2	11/8 x 11/8 x 5/8	10	100
HL15-460-0161	1 x 1 x 3/8	11/8 x 11/8 x 1/2	10	100
HL15-460-0169	1 x 3/4 x 1	11/8 x 7/8 x 11/8	10	60
HL15-460-0170	1 x 3/4 x 3/4	11/8 x 7/8 x 7/8	10	60
HL15-460-0171	1 x 3/4 x 1/2	11/8 x 7/8 x 5/8	10	60
HL15-460-0180	1 x 1/2 x 1	11/8 x 5/8 x 11/8	10	60
HL15-460-0181	1 x 1/2 x 3/4	11/8 x 5/8 x 7/8	10	80
HL15-460-0182	1 x 1/2 x 1/2	11/8 x 5/8 x 5/8	10	100
HL15-460-0220	11/4 x 11/4 x 2	13/8 x 13/8 x 21/8	10	10
HL15-460-0221	11/4 x 11/4 x 11/2	13/8 x 13/8 x 15/8	20	20
HL15-460-0222	11/4 x 11/4 x 1	13/8 x 13/8 x 11/8	40	40
HL15-460-0223	11/4 x 11/4 x 3/4	13/8 x 13/8 x 7/8	50	50
HL15-460-0224	11/4 x 11/4 x 1/2	13/8 x 13/8 x 5/8	50	50
HL15-460-0234	11/4 x 1 x 11/4	13/8 x 11/8 x 13/8	30	30
HL15-460-0235	11/4 x 1 x 1	13/8 x 11/8 x 11/8	50	50
HL15-460-0236	11/4 x 1 x 3/4	13/8 x 11/8 x 7/8	50	50
HL15-460-0237	11/4 x 1 x 1/2	13/8 x 11/8 x 5/8	60	60
HL15-460-0245	11/4 x 3/4 x 11/4	13/8 x 7/8 x 13/8	35	35
HL15-460-0246	11/4 x 3/4 x 1	13/8 x 7/8 x 11/8	45	45
HL15-460-0247	11/4 x 3/4 x 3/4	13/8 x 7/8 x 7/8	50	50
HL15-460-0248	11/4 x 3/4 x 1/2	13/8 x 7/8 x 5/8	50	50
HL15-460-0256	11/4 x 1/2 x 11/4	13/8 x 5/8 x 13/8	35	35
HL15-460-0257	11/4 x 1/2 x 1/2	13/8 x 5/8 x 5/8	75	75
HL15-460-0302	11/2 x 11/2 x 2	15/8 x 15/8 x 21/8	10	10
HL15-460-0303	11/2 x 11/2 x 11/4	15/8 x 15/8 x 13/8	25	25
HL15-460-0304	11/2 x 11/2 x 1	15/8 x 15/8 x 11/8	35	35
HL15-460-0305	11/2 x 11/2 x 3/4	15/8 x 15/8 x 7/8	35	35
HL15-460-0306	11/2 x 11/2 x 1/2	15/8 x 15/8 x 5/8	40	40
HL15-460-0315	11/2 x 11/4 x 11/2	15/8 x 13/8 x 15/8	20	20
HL15-460-0316	11/2 x 11/4 x 11/4	15/8 x 13/8 x 13/8	30	30
HL15-460-0317	11/2 x 11/4 x 1	15/8 x 13/8 x 11/8	30	30
HL15-460-0318	11/2 x 11/4 x 3/4	15/8 x 13/8 x 7/8	40	40
HL15-460-0319	11/2 x 11/4 x 1/2	15/8 x 13/8 x 5/8	40	40
HL15-460-0328	11/2 x 1 x 11/2	15/8 x 11/8 x 15/8	20	20
HL15-460-0329	11/2 x 1 x 11/4	15/8 x 11/8 x 13/8	30	30
HL15-460-0330	11/2 x 1 x 1	15/8 x 11/8 x 11/8	35	35
HL15-460-0331	11/2 x 1 x 3/4	15/8 x 11/8 x 7/8	40	40
HL15-460-0332	11/2 x 1 x 1/2	15/8 x 11/8 x 5/8	40	40
HL15-460-0339	11/2 x 3/4 x 11/2	15/8 x 7/8 x 15/8	20	20
HL15-460-0340	11/2 x 3/4 x 11/4	15/8 x 7/8 x 13/8	30	30
HL15-460-0341	11/2 x 3/4 x 1	15/8 x 7/8 x 11/8	40	40
HL15-460-0342	11/2 x 3/4 x 3/4	15/8 x 7/8 x 7/8	30	30
HL15-460-0343	11/2 x 3/4 x 1/2	15/8 x 7/8 x 5/8	40	40
HL15-460-0350	11/2 x 1/2 x 11/2	15/8 x 5/8 x 15/8	20	20
HL15-460-0351	11/2 x 1/2 x 11/4	15/8 x 5/8 x 13/8	30	30
HL15-460-0352	11/2 x 1/2 x 1	15/8 x 5/8 x 11/8	40	40
HL15-460-0397	2 x 2 x 21/2	21/8 x 21/8 x 25/8	15	15
HL15-460-0398	2 x 2 x 11/2	21/8 x 21/8 x 15/8	10	10
HL15-460-0399	2 x 2 x 11/4	21/8 x 21/8 x 13/8	15	15
HL15-460-0400	2 x 2 x 1	21/8 x 21/8 x 11/8	18	18
HL15-460-0401	2 x 2 x 3/4	21/8 x 21/8 x 7/8	20	20
HL15-460-0402	2 x 2 x 1/2	21/8 x 21/8 x 5/8	20	20
HL15-460-0413	2 x 11/2 x 2	21/8 x 15/8 x 21/8	10	10
HL15-460-0414	2 x 11/2 x 11/2	21/8 x 15/8 x 15/8	10	10
HL15-460-0415	2 x 11/2 x 11/4	21/8 x 15/8 x 13/8	10	10
HL15-460-0416	2 x 11/2 x 1	21/8 x 15/8 x 11/8	20	20
HL15-460-0417	2 x 11/2 x 3/4	21/8 x 15/8 x 7/8	20	20
HL15-460-0418	2 x 11/2 x 1/2	21/8 x 15/8 x 5/8	20	20
HL15-460-0429	2 x 11/4 x 2	21/8 x 13/8 x 21/8	10	10
HL15-460-0430	2 x 11/4 x 11/2	21/8 x 13/8 x 15/8	15	15
HL15-460-0431	2 x 11/4 x 11/4	21/8 x 13/8 x 13/8	15	15
HL15-460-0432	2 x 11/4 x 1	21/8 x 13/8 x 11/8	20	20
HL15-460-0433	2 x 11/4 x 3/4	21/8 x 13/8 x 7/8	20	20

Tee (Continued)				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-460-0444	2 x 1 x 2	21/8 x 11/8 x 21/8		15
HL15-460-0445	2 x 1 x 11/2	21/8 x 11/8 x 15/8		15
HL15-460-0447	2 x 1 x 1	21/8 x 11/8 x 11/8		20
HL15-460-0457	2 x 3/4 x 2	21/8 x 7/8 x 21/8		10
HL15-460-0458	2 x 3/4 x 11/2	21/8 x 7/8 x 15/8		15
HL15-460-0470	2 x 1/2 x 2	21/8 x 5/8 x 21/8		15
HL15-460-0531	21/2 x 21/2 x 2	25/8 x 25/8 x 21/8		15
HL15-460-0532	21/2 x 21/2 x 11/2	25/8 x 25/8 x 15/8		20
HL15-460-0533	21/2 x 21/2 x 11/4	25/8 x 25/8 x 13/8		20
HL15-460-0534	21/2 x 21/2 x 1	25/8 x 25/8 x 11/8		25
HL15-460-0535	21/2 x 21/2 x 3/4	25/8 x 25/8 x 7/8		25
HL15-460-0536	21/2 x 21/2 x 1/2	25/8 x 25/8 x 5/8		25
HL15-460-0548	21/2 x 2 x 21/2	25/8 x 21/8 x 25/8		15
HL15-460-0549	21/2 x 2 x 2	25/8 x 21/8 x 21/8		15
HL15-460-0550	21/2 x 2 x 11/2	25/8 x 21/8 x 15/8		20
HL15-460-0551	21/2 x 2 x 11/4	25/8 x 21/8 x 13/8		20
HL15-460-0552	21/2 x 2 x 1	25/8 x 21/8 x 11/8		20
HL15-460-0564	21/2 x 11/2 x 21/2	25/8 x 15/8 x 25/8		15
HL15-460-0580	21/2 x 11/4 x 21/2	25/8 x 13/8 x 25/8		15
HL15-460-0595	21/2 x 1 x 21/2	25/8 x 11/8 x 25/8		15
HL15-460-0608	21/2 x 3/4 x 21/2	25/8 x 7/8 x 25/8		15
HL15-460-0662	3 x 3 x 21/2	31/8 x 31/8 x 25/8		10
HL15-460-0663	3 x 3 x 2	31/8 x 31/8 x 21/8		13
HL15-460-0664	3 x 3 x 11/2	31/8 x 31/8 x 15/8		15
HL15-460-0665	3 x 3 x 11/4	31/8 x 31/8 x 13/8		15
HL15-460-0666	3 x 3 x 1	31/8 x 31/8 x 11/8		20
HL15-460-0667	3 x 3 x 3/4	31/8 x 31/8 x 7/8		20
HL15-460-0668	3 x 3 x 1/2	31/8 x 31/8 x 5/8		10
HL15-460-0677	3 x 21/2 x 3	31/8 x 25/8 x 31/8		10
HL15-460-0678	3 x 21/2 x 21/2	31/8 x 25/8 x 25/8		10
HL15-460-0679	3 x 21/2 x 2	31/8 x 25/8 x 21/8		15
HL15-460-0680	3 x 21/2 x 11/2	31/8 x 25/8 x 15/8		15
HL15-460-0693	3 x 2 x 3	31/8 x 21/8 x 31/8		10
HL15-460-0694	3 x 2 x 21/2	31/8 x 21/8 x 25/8		10
HL15-460-0695	3 x 2 x 2	31/8 x 21/8 x 21/8		15
HL15-460-0870	4 x 4 x 3	41/8 x 41/8 x 31/8		5
HL15-460-0871	4 x 4 x 21/2	41/8 x 41/8 x 25/8		5
HL15-460-0872	4 x 4 x 2	41/8 x 41/8 x 21/8		6
HL15-460-0873	4 x 4 x 11/2	41/8 x 41/8 x 15/8		8
HL15-460-0874	4 x 4 x 11/4	41/8 x 41/8 x 13/8		8
HL15-460-0875	4 x 4 x 1	41/8 x 41/8 x 11/8		8
HL15-460-0876	4 x 4 x 3/4	41/8 x 41/8 x 7/8		8
HL15-460-0893	4 x 3 x 4	41/8 x 31/8 x 41/8		5
HL15-460-0895	4 x 3 x 3	41/8 x 31/8 x 31/8		5
HL15-460-0914	4 x 2 x 4	41/8 x 21/8 x 41/8		4
HL15-460-1109	6 x 6 x 4	61/8 x 61/8 x 41/8		2
HL15-460-1233	8 x 8 x 4	81/8 x 81/8 x 41/8		1

Suction Line P-Trap C X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-533-0050	1/2	5/8	5	60
HL15-533-0090	5/8	3/4	5	40
HL15-533-0100	3/4	7/8	5	40
HL15-533-0150	1	1 1/8	3	15
HL15-533-0215	1 1/4	1 3/8	2	10
HL15-533-0295	1 1/2	1 5/8	2	6
HL15-533-0390	2	2 1/8	1	4

U-Type Strap				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HL15-947-0001	1/8	1/4	25	2000
HL15-947-0002	1/4	3/8	100	2000
HL15-947-0025	3/8	1/2	25	1300
HL15-947-0050	1/2	5/8	25	1000
HL15-947-0100	3/4	7/8	25	600
HL15-947-0150	1	1 1/8	10	350
HL15-947-0215	1 1/4	1 3/8		350
HL15-947-0295	1 1/2	1 5/8		300
HL15-947-0390	2	2 1/8		300

Union No Lead C X C				
				
HLAC Part #	Nominal Size	OD Size	Bag	Ctn
HLC15-657-0050	1/2	5/8	25	200
HLC15-657-0100	3/4	7/8	25	100
HLC15-657-0150	1	1 1/8	20	100
HLC15-657-0215	1 1/4	1 3/8	10	50
HLC15-657-0295	1 1/2	1 5/8	5	30
HLC15-657-0390	2	2 1/8	3	18
HLC15-657-0520	2-1/2	2 5/8	2	8
HLC15-657-0650	3	3 1/8	2	6

Symbol of Joint Ends

- C Solder joint fitting end made to receive copper tube diameter
- Ftg. Solder joint fitting end made to copper tube diameter
- F Internal ANSI Standard Taper Pipe Thread-Female
- M External ANSI Standard Taper Pipe Thread-Male

Not recommended for marine or aviation applications. Usage in these applications will void all warranties and liability.