

IAPMO RESEARCH AND TESTING, INC.

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CERTIFICATE OF LISTING

IAPMO Research and Testing, Inc. is a product certification body which tests and inspects samples taken from the supplier's stock or from the market or a combination of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

The most updated information on this Certificate of Listing is available online at pld.iapmo.org

Effective Date: May 2016

Void After: May 2017

Product: Lead Free Plumbing Products

File No. 6503

Issued To: ZHEJIANG HAILIANG CO., LTD. C/O HAILIANG (VIETNAM) COPPER MANUFACTURING CO. LTD.
Jiefang Road 386
Diankou Town
Zhuji City,
China

Identification: Each product shall bear permanent and legible markings to identify the manufacturer. This marking shall be the trade name, trademark, or other mark known to identify the manufacturer. The product and/or product packaging may also bear the term "Lead Plumbing Law", "Complies with Lead Plumbing Law", or either "Lead Free" or "Low Lead" above or in close proximity to the appropriate IAPMO R&T certification mark, or the term "Certified by IAPMO R&T". The product packaging may also bear a grey dot, a check mark with circle, or any other home centers marking requirements.

Characteristics: Products may include any pipe, pipe fitting, solder, flux, or other plumbing products providing water for human consumption. Products listed below are to be installed in accordance with the manufacturer's instruction. These products have been verified with weighted average lead content $\leq 0.25\%$; Solder and flux lead content $\leq 0.2\%$.

Products listed on this certificate have been tested by an IAPMO R&T


Chairman, Product Certification Committee


CEO, The IAPMO Group



This listing period is based upon the last date of the month indicated on the Effective Date and Void After Date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Production of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing.

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recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

Products are in compliance with the following standard(s):

Section 1417(d) of the Safe Drinking Water Act

The lead content requirements of Section 116875 of the California Health & Safety Code

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Issued To: Zhejiang Hailiang Co., Ltd. C/o Hailiang (vietnam) Copper Manufacturing Co. Ltd.

Model No. Description

BRASS FITTING

BRASS PEX MALE ADAPTER 3/8" to 1 1/4"
BRASS PEX FEMALE ADAPTER 3/8" to 1 1/4"
BRASS PEX MALE SWEAT ADAPTER 3/8" to 1 1/4"
BRASS PEX FEMALE SWEAT ADAPTER 3/8" to 1 1/4"
BRASS PEX TEE 3/8" to 1 1/4"
BRASS PEX COUPLING 3/8" to 1 1/4"
BRASS PEX 90 DEGREE ELBOW 3/8" to 1 1/4"
BRASS PEX PLUG 3/8" to 1 1/4"
Copper crimp rings 3/8" to 1 1/4"
Brass PEX MPT Elbow 3/8" to 1 1/4"
Brass PEX Swivel FPT Adapter 3/8" to 1 1/4"
Brass PEX Drop-ear FPT ELBOW 3/8" to 1 1/4"
Brass PEX Swivel Elbows W/Plastic or brass Nut 3/8" to 1 1/4"
Copper 90 Elbow PEX to Copper 3/8" to 1 1/4"
Copper stub out elbow 3/8" to 1 1/4", (to maximum 12" length and header ends consisting of plain end, closed, barbed or threaded adapters or Tee)
Copper straight copper stub 3/8" to 1 1/4"
Copper crimp rings with stop 3/8" to 1 1/4"

LEAD FREE BRASS FITTING

<u>Description</u>	<u>Size Range</u>
Lead Free Brass PEX Male Adapter	3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
Lead Free Brass PEX Female Adapter	3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
Lead Free Brass PEX Male Sweat Adapter	3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
Lead Free Brass PEX Female Sweat Adapter	3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
Lead Free Brass PEX Tee	3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
Lead Free Brass PEX Coupling	3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
Lead Free Brass PEX 90 Degree Elbow	3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
Lead Free Brass PEX Plug	3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
Lead Free Brass PEX MPT Elbow	3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
Lead Free Brass PEX Swivel FPT Adapter	3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
Lead Free Brass PEX Drop-ear FPT Elbow	3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"
Lead Free Brass PEX Swivel Elbows w/ Plastic or Brass Nut	3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2"

Potable Water Distribution Manifold

MANIFOLDS "Minimum Copper Type L Manifolds, to maximum 24" length, with header body sizes of 1", 1-1/4", 1-1/2", and 2", with header ends consisting of plain end, reduced, capped, or threaded adapters, and manifolds have maximum 8 branch outlets size 1/2" or 3/4"."

BRASS PIPE FITTINGS

Elbow

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HLPE44	1/4" F/F
HLPE66	3/8" F/F
HLPE88	1/2" F/F
HLPE1212	3/4" F/F
HLPE1616	1"F/F
HLPE2020	1 1/4" F/F
HLPE2424	1 1/2" F/F
HLPE3232	2"F/F
HLPE64	3/8" x 1/4" F/F
HLPE86	1/2" x 3/8" F/F
HLPE128	3/4"x 1/2"F/F
HLPE1612	1"x3/4" F/F
<u>Elbow (F/M)</u>	
HLPME44	1/4"F/M
HLPME66	3/8"F/M
HLPME88	1/2" F/M
HLPME1212	3/4" F/M
HLPME1616	1"F/M
HLPME2020	1 1/4" F/M
HLPME2424	1 1/2" F/M
HLPME3232	2" F/M
HLPME128	3/4"x1/2" F/M
<u>Tee</u>	
HLPT444	3F/F 1/4"
HLPT666	3F/F 3/8"
HLPT888	3F/F 1/2"
HLPT121212	3F/F 3/4"
HLPT161616	3F/F 1"
HLPT202020	3F/F 1 1/4"
HLPT242424	3F/F 1 1/2"
HLPT323232	3F/F 2"
HLPT12812	3F/F 3/4"x1/2"x3/4"
<u>Reduce Socket</u>	
HLPC86	1/2" X 3/8"
HLPC128	3/4" X 1/2"
HLPC168	1 X 1/2"
HLPC1612	1 X 3/4"
HLPC2016	1 1/4"X 1"
<u>Bushing(male pipe to female pipe)</u>	
HLPMFA42	1/4"X1/8"
HLPMFA43	3/8"X1/8"
HLPMFA44	3/8"X1/4"
HLPMFA45	1/2"X1/8"
HLPMFA46	1/2"X1/4"
HLPMFA47	1/2"X3/8"
HLPMFA48	3/4"X1/8"
HLPMFA49	3/4"X3/8"
HLPMFA50	3/4"X1/2"

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Issued To: Zhejiang Hailiang Co., Ltd. C/o Hailiang (vietnam) Copper Manufacturing Co. Ltd.

HLPMFA51	1"X1/4"
HLPMFA52	1"X3/8"
HLPMFA53	1"X1/2"
HLPMFA54	1"X3/4"
HLPMFA55	1 1/4"X1/2"
HLPMFA56	1 1/4"X3/4"
HLPMFA57	1 1/4"X1"
HLPMFA58	1 1/2"X3/4"
HLPMFA59	1 1/2"X1"
HLPMFA60	1 1/2"X1 1/4"
HLPMFA61	2"X1"
HLPMFA62	2"X1 1/4"
HLPMFA63	2"X1 1/2"

Reduce Hexagon Nipple

HLPMA42	1/4"X1/8"
HLPMA43	3/8"X1/4"
HLPMA44	1/2"X1/8"
HLPMA45	1/2"X1/4"
HLPMA46	1/2"X3/8"
HLPMA47	3/4"X1/2"
HLPMA48	1"X3/8"
HLPMA49	1"X1/2"
HLPMA50	1"X3/4"
HLPMA51	1 1/4"X3/4"
HLPMA52	1 1/4"X1"
HLPMA53	1 1/2"X1"
HLPMA54	1 1/2"X1 1/4"
HLPMA55	2"X1"
HLPMA56	2"X1 1/4"
HLPMA57	2"X1 1/2"

Negative Reduce Socket F/M

HLPFMA64	3/8"X1/4"
HLPFMA84	1/2"X1/4"
HLPFMA86	1/2"X3/8"
HLPFMA128	3/4"X1/2"
HLPFMA168	1"X1/2"
HLPFMA1612	1"X3/4"
HLPFMA2016	1 1/4"X1"
HLPFMA2416	1 1/2"X1"
HLPFMA3220	2" X 1 1/4"
HLPFMA3224	2" X 1 1/2"

Socket

HLP A22	1/8"
HLP A44	1/4"
HLP A66	3/8"
HLP A88	1/2"
HLP A1212	3/4"
HLP A1616	1"

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HLPA2020 1 1/4"
HLPA2424 1 1/2"
HLPA3232 2"

Hexagon Nipple

HLPHN22 1/8"
HLPHN44 1/4"
HLPHN66 3/8"
HLPHN88 1/2"
HLPHN1212 3/4"
HLPHN1616 1"
HLPHN2020 1 1/4"
HLPHN2424 1 1/2"
HLPHN3232 2"

Plug Square Head

HLPP22 1/8"
HLPP44 1/4"
HLPP66 3/8"
HLPP88 1/2"
HLPP1212 3/4"
HLPP1616 1"
HLPP2020 1 1/4"
HLPP2424 1 1/2"
HLPP3232 2"

Hexagon Nut

HLPN22 1/8"
HLPN44 1/4"
HLPN66 3/8"
HLPN88 1/2"
HLPN1212 3/4"

Hexagon Cap

HLPC44 1/4"
HLPC66 3/8"
HLPC88 1/2"
HLPC1212 3/4"
HLPC1616 1"
HLPC2020 1 1/4"

HLPU4 Union F/F/F teflon gasket 1/4"
HLPU6 Union F/F/F teflon gasket 3/8"
HLPU8 Union F/F/F teflon gasket 1/2"
HLPU12 Union F/F/F teflon gasket 3/4"
HLPU16 Union F/F/F teflon gasket 1"
HLPUMFF4 Union M/F/F teflon gasket 1/4"
HLPUMFF6 Union M/F/F teflon gasket 3/8"
HLPUMFF8 Union M/F/F teflon gasket 1/2"
HLPUMFF12 Union M/F/F teflon gasket 3/4"
HLPUMFF16 Union M/F/F teflon gasket 1"
HLPUMFM4 Union M/F/M teflon gasket 1/4"
HLPUMFM6 Union M/F/M teflon gasket 3/8"

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HLPUMFM8	Union M/F/M teflon gasket	1/2"
HLPUMFM12	Union M/F/M teflon gasket	3/4"
HLPUMFM16	Union M/F/M teflon gasket	1"
HLPUMFF4	Elbow M/F/F teflon gasket	1/4"
HLPUMFF6	Elbow M/F/F teflon gasket	3/8"
HLPUMFF8	Elbow M/F/F teflon gasket	1/2"
HLPUMFF12	Elbow M/F/F teflon gasket	3/4"
HLPUMFF16	Elbow M/F/F teflon gasket	1"

BRASS GRIP TITE HOSE FITTINGS

Grip-Tite, Male Pipe

HLGTBMP42	1/4 X 1/8
HLGTBMP44	1/4 X 1/4
HLGTBMP46	1/4 X 3/8
HLGTBMP52	5/16 X 1/8
HLGTBMP54	5/16 X 1/4
HLGTBMP62	3/8 X 1/8
HLGTBMP64	3/8 X 1/4
HLGTBMP66	3/8 X 3/8
HLGTBMP68	3/8 X 1/2
HLGTBMP84	1/2 X 1/4
HLGTBMP86	1/2 X 3/8
HLGTBMP88	1/2 X 1/2
HLGTBMP812	1/2 X 3/4
HLGTBMP106	5/8 X 3/8
HLGTBMP108	5/8 X 1/2
HLGTBMP1012	5/8 X 3/4
HLGTBMP128	3/4 X 1/2
HLGTBMP1212	3/4 X 3/4

Working Male Pipe Swivel

HLGTBMS44	1/4 X 1/4
HLGTBMS64	3/8 X 1/4
HLGTBMS66	3/8 X 3/8
HLGTBMS86	1/2 X 3/8
HLGTBMS88	1/2 X 1/2
HLGTBMS1212	3/4 X 3/4

45 S.A.E. Male Flare

HLGTBMF44-45	1/4 X 1/4
HLGTBMF45-45	1/4 X 5/16
HLGTBMF46-45	1/4 x 3/8
HLGTBMF55-45	5/16 x 5/16
HLGTBMF64-45	3/8 X 1/4
HLGTBMF65-45	3/8 X 5/16
HLGTBMF66-45	3/8 X 3/8
HLGTBMF68-45	3/8 x 1/2
HLGTBMF88-45	1/2 X 1/2
HLGTBMF810-45	1/2 x 5/8
HLGTBMF1210-45	3/4 X 5/8

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HLGTBMF1212-45 3/4 X 3/4

45 S.A.E. Female Flare Swivel

HLGTBFF44-45 1/4 X 1/4
HLGTBFF45-45 1/4 X 5/16
HLGTBFF66-45 3/8 X 3/8
HLGTBFF68-45 3/8 X 1/2
HLGTBFF86-45 1/2 X 3/8
HLGTBFF88-45 1/2 X 1/2
HLGTBFF810-45 1/2 X 5/8
HLGTBFF108-45 5/8 X 1/2
HLGTBFF1010-45 5/8 X 5/8
HLGTBFF1212-45 3/4 X 3/4

HOSE SPLICER

HLGTBHS44 1/4
HLGTBHS55 5/16
HLGTBHS66 3/8
HLGTBHS88 1/2
HLGTBHS1010 5/8
HLGTBHS1212 3/4

Female Stright Pipe Swivel (GASKET TYPE)

HLGTBFG42 1/4 X 1/8
HLGTBFG44 1/4 X 1/4
HLGTBFG64 3/8 X 1/4
HLGTBFG66 3/8 X 3/8
HLGTBFG88 1/2 X 1/2
HLGTBFG1212 3/4 X 3/4

Female Stright Pipe Swivel (BALL TYPE)

HLGTBFB42 1/4 X 1/8
HLGTBFB44 1/4 X 1/4
HLGTBFB64 3/8 X 1/4
HLGTBFB66 3/8 X 3/8
HLGTBFB88 1/2 X 1/2
HLGTBFB1212 3/4 X 3/4

RIGID Tube Shank

HLGTBRT43 1/4 X 3/16
HLGTBRT44 1/4 X 1/4
HLGTBRT45 1/4 X 5/16
HLGTBRT55 5/16 X 5/16
HLGTBRT66 3/8 X 3/8
HLGTBRT88 1/2 X 1/2
HLGTBRT1010 5/8 X 5/8
HLGTBRT1212 3/4 X 3/4

45 S.A.E. MALE INVERTED FLARE SWIVEL

HLGTBMI43 1/4 X 3/16
HLGTBMI44 1/4 X 1/4
HLGTBMI45 1/4 X 5/16
HLGTBMI54 5/16 X 1/4
HLGTBMI55 5/16 X 5/16

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HLGTBMI56	5/16 X 3/8
HLGTBMI65	3/8 X 5/16
HLGTBMI66	3/8 X 3/8
HLGTBMI68	3/8 X 1/2
HLGTBMI86	1/2 X 3/8
HLGTBMI88	1/2 X 1/2
HLGTBMI1010	5/8 X 5/8

45 S.A.E. FEMALE INVERTED FLARE

HLGTBFI43	1/4 X 3/16
HLGTBFI44	1/4 X 1/4
HLGTBFI45	1/4 X 5/16
HLGTBFI55	5/16 X 5/16
HLGTBFI65	3/8 X 5/16
HLGTBFI66	3/8 X 3/8
HLGTBFI88	1/2 X 1/2

37 J.I.C. Male Flare

HLGTBMF44-37	1/4 X 1/4
HLGTBMF45-37	1/4 X 5/16
HLGTBMF46-37	1/4 x 3/8
HLGTBMF55-37	5/16 x 5/16
HLGTBMF64-37	3/8 X 1/4
HLGTBMF65-37	3/8 X 5/16
HLGTBMF66-37	3/8 X 3/8
HLGTBMF68-37	3/8 x 1/2
HLGTBMF88-37	1/2 X 1/2
HLGTBMF810-37	1/2 x 5/8
HLGTBMF1210-37	3/4 X 5/8
HLGTBMF1212-37	3/4 X 3/4

37 J.I.C. Female Flare Swivel

HLGTBFF44-45	1/4 X 1/4
HLGTBFF45-45	1/4 X 5/16
HLGTBFF66-45	3/8 X 3/8
HLGTBFF68-45	3/8 X 1/2
HLGTBFF86-45	1/2 X 3/8
HLGTBFF88-45	1/2 X 1/2
HLGTBFF810-45	1/2 X 5/8
HLGTBFF108-45	5/8 X 1/2
HLGTBFF1010-45	5/8 X 5/8
HLGTBFF1212-45	3/4 X 3/4

90 ELBOW HOSE MALE PIPE

HLGTBME42	1/4 X 1/8
HLGTBME44	1/4 X 1/4
HLGTBME52	5/16 X 1/8
HLGTBME54	5/16 X 1/4
HLGTBME62	3/8 X 1/8
HLGTBME64	3/8 X 1/4
HLGTBME66	3/8 X 3/8
HLGTBME68	3/8 X 1/2

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HLGTBME88	1/2 X 1/2
HLGTBME108	5/8 X 1/2
HLGTBME1012	5/8 X 3/4
HLGTBME1212	3/4 X 3/4

HOSE BARB FITTING

Hose MIP Coupler Hose Barb to Male Pipes

HLHMA22	1/8"*1/8"M
HLHMA24	1/8"*1/4"M
HLHMA32	3/16"*1/8"M
HLHMA34	3/16"*1/4"M
HLHMA42	1/4"*1/8"M
HLHMA44	1/4"*1/4"M
HLHMA46	1/4"*3/8"M
HLHMA48	1/4"*1/2"M
HLHMA52	5/16"*1/8"M
HLHMA62	3/8"*1/8"M
HLHMA54	5/16"*1/4"M
HLHMA56	5/16"*3/8"M
HLHMA58	5/16"*1/2"M
HLHMA64	3/8"*1/4"M
HLHMA66	3/8"*3/8"M
HLHMA68	3/8"*1/2"M
HLHMA612	3/8"*3/4"M
HLHMA84	1/2"*1/4"M
HLHMA86	1/2"*3/8"M
HLHMA88	1/2"*1/2"M
HLHMA812	1/2"*3/4"M
HLHMA106	5/8"*3/8"M
HLHMA1012	5/8"*3/4"M
HLHMA108	5/8"*1/2"M
HLHMA128	3/4"*1/2"M
HLHMA1212	3/4"*3/4"M
HLHMA1612	1"*3/4"M
HLHMA1616	1"*1"M

COUPLING

Hose Barb

HLHC22	1/8"
HLHC33	3/16"
HLHC44	1/4"
HLHC55	5/16"
HLHC66	3/8"
HLHC88	1/2"
HLHC1010	5/8"
HLHC1212	3/4"
HLHC64	3/8"*1/4"
HLHC86	1/2"*3/8"
HLHC108	5/8"*1/2"
HLHC1210	3/4"*5/8"

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ELBOW Hose Barb both ends

HLHE44	1/4"
HLHE55	5/16"
HLHE66	3/8"
HLHE88	1/2"

TEE Hose Barb all ends

HLHT444	1/4"
HLHT555	5/16"
HLHT666	3/8"
HLHT888	1/2"

90 ELBOW Hose Barb to Male pipe

HLHME32	3/16"*1/8"M
HLHME42	1/4"*1/8"M
HLHME44	1/4"*1/4"M
HLHME46	1/4"*3/8"M
HLHME52	5/16"*1/8"M
HLHME54	5/16"*1/4"M
HLHME56	5/16"*3/8"M
HLHME62	3/8"*1/8"M
HLHME64	3/8"*1/4"M
HLHME66	3/8"*3/8"M
HLHME68	3/8"x1/2"M
HLHME84	1/2"*1/4"M
HLHME86	1/2"*3/8"M
HLHME88	1/2"*1/2"M
HLHME106	5/8"*3/8"M
HLHME108	5/8"*1/2"M
HLHME128	3/4"*1/2"M
HLHME1212	3/4"*3/4"M

45 ELBOW Hose Barb To Male Pipe

HLHMP42	1/4"*1/8"M
HLHMP44	1/4"*1/4"M
HLHMP52	5/16"*1/8"M
HLHMP62	3/8"*1/8"M
HLHMP64	3/8"*1/4"M
HLHMP66	3/8"*3/8"M
HLHMP86	1/2"*3/8"M
HLHMP106	5/8"*3/8"M

90 ELBOW Hose Barb to Female pipe

HLHFE42	1/4"*1/8"F
HLHFE68	3/8"x1/2"F

SWIVEL COUPLER

Hose Barb flat seat with Gasket to Female Straight pipe

HLHSA22	1/8"*1/8"F
HLHSA34	3/16"*1/4"F
HLHSA42	1/4"*1/8"F
HLHSA44	1/4"*1/4"F
HLHSA46	1/4"*3/8"F

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HLHSA56 5/16"*3/8"F
HLHSA64 3/8"*1/4"F
HLHSA66 3/8"*3/8"F
HLHSA68 3/8"*1/2"F
HLHSA88 1/2"x1/2"F
HLHSA812 1/2"x3/4"F
HLHSA1212 3/4"x3/4"F

COUPLING Hose Barb To Female Pipe

HLHFA22 1/8"*1/8"F
HLHFA24 1/8"*1/4"F
HLHFA32 3/16"*1/8"F
HLHFA34 3/16"*1/4"F
HLHFA42 1/4"*1/8"F
HLHFA44 1/4"*1/4"F
HLHFA46 1/4"*3/8"F
HLHFA52 5/16"*1/8"F
HLHFA54 5/16"*1/4"F
HLHFA56 5/16"*3/8"F
HLHFA62 3/8"*1/8"F
HLHFA64 3/8"*1/4"F
HLHFA66 3/8"*3/8"F
HLHFA68 3/8"*1/2"F
HLHFA84 1/2"*1/4"F
HLHFA86 1/2"*3/8"F
HLHFA88 1/2"*1/2"F
HLHFA1212 3/4"*3/4"F

SWIVEL COUPLER

Hose Barb To Female 45 SAE Flare

HLHSF34 3/16"*1/4"F
HLHSF44 1/4"*1/4"F
HLHSF45 1/4"*5/16"F
HLHSF46 1/4"*3/8"F
HLHSF55 5/16"*5/16"F
HLHSF56 5/16"*3/8"F
HLHSF66 3/8"*3/8"F
HLHSF68 3/8"*1/2"F
HLHSF88 1/2"*1/2"F
HLHSF810 1/2"*5/8"F
HLHSF1010 5/8"*5/8"F
HLHSF1212 3/4"*3/4"F

COUPLER Hose Barb To Male 45 S.A.E. Flare

HLHCF44 1/4"*1/4"M
HLHCF46 1/4"*3/8"M
HLHCF55 5/16"*5/16"M
HLHCF66 3/8"*3/8"M
HLHCF68 3/8"*1/2"M
HLHCF88 1/2"*1/2"M

WATER HOSE FITTING

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Brass Water Hose fittings Connector Hose Barb to Male Water Hose

HLWMC66	3/8*3/8
HLWMC88	1/2*1/2
HLWMC1010	5/8*5/8
HLWMC1212	3/4*3/4
HLWMC1616	1*1

Brass Water Hose Fitting Swivel Connector, Hose Barb*Female Water Hose

HLWFC66	3/8*3/8
HLWFC88	1/2*1/2
HLWFC1010	5/8*5/8
HLWFC1212	3/4*3/4
HLWFC1616	1*1

KNURLED CAP NUT

HLWT1212	3/4 FHT
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OPEN HEX NUT

HLWFN122	3/4" FHT X 1/8" FIP
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COUPLING FEMALE HOSE TO MALE PIPE

HLWFMA126	3/4" FHT X 3/8" MIP
HLWFMA128	3/4" FHT X 1/2" MIP

COUPLING MALE HOSE TO MALE PIPE

HLWMA128	3/4" MHT X 1/2" MIP
HLWMA1212	3/4" MHT X 3/4" MIP

COUPLING MALE HOSE TO FEMALE PIPE

HLWMFA128	3/4" MHT X 1/2" FIP
HLWMFA1212	3/4" MHT X 3/4" FIP

COUPLING MALE HOSE TO MALE HOSE

HLWMMC66	3/8" MHT X 3/8" MHT
HLWMMC88	1/2" MHT X 1/2" MHT
HLWMMC1212	3/4" MHT X 3/4" MHT

COUPLING FEMALE HOSE TO MALE PIPE

HLWFMA128	3/4" FHT X 1/2" MIP
HLWFMA1212	3/4" FHT X 3/4" MIP

COUPLING FEMALE HOSE TO FEMALE HOSE

HLWFFC66	3/8" FHT X 3/8" FHT
HLWFFC88	1/2" FHT X 1/2" FHT
HLWFFC1212	3/4" FHT X 3/4" FHT

Coupling Female Hose to Female pipe

HLWFFA128	3/4" FHT X 1/2" FIP
HLWFFA1212	3/4" FHT X 3/4" FIP

SWIVEL COUPLING Female Hose *female pipe

HLWFS1212	3/4" FHT X 3/4" FIP (SWIVEL)
HLWFS128	3/4" FHT X 1/2" FIP (SWIVEL)

SWIVEL COUPLING Female Hose both ends

HLWFSC1212	3/4" FHT X 3/4" FHT (SWIVEL)
HLWFSC128	3/4" FHT X 1/2" FHT (SWIVEL)

EXTRUDED FITTINGS

90 ELBOW FPT, EXTRUDED

HLXE22	1/8 *1/8
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HLXE44 1/4*1/4
HLXE66 3/8*3/8
HLXE88 1/2*1/2

Tee FPT, Extruded

HLXT2 1/8*1/8*1/8
HLXT4 1/4*1/4*1/4
HLXT6 3/8*3/8*3/8
HLXT8 1/2*1/2*1/2

45 elbow, FPT, Extruded

HLXL2 1/8
HLXL4 1/4

Male Branch Tee, FPT*FPT*MPT, Extruded

HLXTFFM2 1/8FX1/8FX1/8M
HLXTFFM4 1/4FX1/4FX1/4M
HLXTFFM6 3/8FX3/8FX3/8M

Street Tee, FPT*MPT*FPT, Extruded

HLXTFMF2 1/8FX1/8MX1/8F
HLXTFMF4 1/4FX1/4MX1/4F
HLXTFMF6 3/8FX3/8MX3/8F
HLXTFMF8 1/2FX1/2MX1/2F

90 STREET ELBOW, FPT*MPT, Extruded

HLXEFM22 1/8FX1/8M
HLXEFM44 1/4FX1/4M
HLXEFM42 1/4FX1/8M
HLXEFM66 3/8FX3/8M
HLXEFM88 1/2FX1/2M
HLXEFM86 1/2FX3/8M
HLXEFM1010 3/4FX3/4M

45 street elbow, FPT*MPT, Extruded

HLXLFM22 1/8FX1/8M
HLXLFM44 1/4FX1/4M
HLXLFM66 3/8F*3/8M
HLXLFM88 1/2FX1/2M
HLXLFM1010 3/4FX3/4M

BARSTOCK FITTINGS

CC UNION BAR STOCK

HLBU88 1/2
HLBU1212 3/4

CF ADAPTER BARSTOCK

HLBFA88 1/2
HLBFA1212 3/4
HLBFA84 1/2*1/4
HLBFA86 1/2*3/8
HLBFA812 1/2*3/4
HLBFA128 3/4*1/2
HLBFA1216 3/4*1

CM ADAPTER BARSTOCK

HLBMA88 1/2

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HLBMA1212 3/4
HLBMA84 1/2*1/4
HLBMA86 1/2*3/8
HLBMA812 1/2*3/4
HLBMA128 3/4*1/2
HLBMA1612 1*3/4
HLBMA1616 1

FTG*FEM BAR FLUSH BUSH

HLBFB82 1/2*1/8
HLBFB84 1/2*1/4
HLBFB122 3/4*1/8

COMPRESSION FITTING

COMPRESSION*FIP CONNECTOR

HL CFA22 1/8COMP*1/8FIP
HL CFA32 3/16COMP*1/8FIP
HL CFA33 3/16COMP*3/16FIP
HL CFA42 1/4COMP*1/8FIP
HL CFA44 1/4COMP*1/4FIP
HL CFA46 1/4COMP*3/8FIP
HL CFA48 1/4COMP*1/2FIP
HL CFA102 5/16COMP*1/8FIP
HL CFA104 5/16COMP*1/4FIP
HL CFA62 3/8COMP*1/8FIP
HL CFA64 3/8COMP*1/4FIP
HL CFA66 3/8COMP*3/8FIP
HL CFA68 3/8COMP*1/2FIP
HL CFA84 1/2COMP*1/4FIP
HL CFA86 1/2COMP*3/8FIP
HL CFA88 1/2COMP*1/2FIP
HL CFA812 1/2COMP*3/4FIP
HL CFA106 5/8COMP*3/8FIP
HL CFA108 5/8COMP*1/2FIP
HL CFA1012 5/8COMP*3/4FIP
HL CFA128 3/4COMP*1/2FIP
HL CFA1212 3/4COMP*3/4FIP
HL CFA148 7/8COMP*1/2FIP
HL CFA11412 7/8COMP*3/4FIP
HL CFA1414 7/8COMP*7/8FIP

Compression *MIP CONNECTOR

HL CMA22 1/8COMP*1/8MIP
HL CMA32 3/16COMP*1/8MIP
HL CMA36 3/16COMP*3/8MIP
HL CMA42 1/4COMP*1/8MIP
HL CMA44 1/4COMP*1/4MIP
HL CMA46 1/4COMP*3/8MIP
HL CMA48 1/4COMP*1/2MIP
HL CMA52 5/16COMP*1/8MIP
HL CMA54 5/16COMP*1/4MIP

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HL CMA56	5/16COMP*3/8MIP
HL CMA62	3/8COMP*1/8MIP
HL CMA64	3/8COMP*1/4MIP
HL CMA66	3/8COMP*3/8MIP
HL CMA68	3/8COMP*1/2MIP
HL CMA612	3/8COMP*3/4MIP
HL CMA74	7/16COMP*1/4MIP
HL CMA76	7/16COMP*3/8MIP
HL CMA84	1/2COMP*1/4MIP
HL CMA86	1/2COMP*3/8MIP
HL CMA88	1/2COMP*1/2MIP
HL CMA812	1/2COMP*3/4MIP
HL CMA106	5/8COMP*3/8MIP
HL CMA108	5/8COMP*1/2MIP
HL CMA1012	5/8COMP*3/4MIP
HL CMA1212	3/4COMP*3/4MIP
HL CMA1412	7/8COMP*3/4MIP

Compression Elbow

HL CE22	1/8COMP*1/8COMP
HL CE33	3/16COMP*3/16COMP
HL CE44	1/4COMP*1/4COMP
HL CE55	5/16COMP*5/16COMP
HL CE66	3/8COMP*3/8COMP
HL CE77	7/16COMP*7/16COMP
HL CE88	1/2COMP*1/2COMP
HL CE1010	5/8COMP*5/8COMP
HL CE1212	3/4COMP*3/4COMP
HL CE1414	7/8COMP*7/8COMP
HL CE64	3/8COMP*1/4COMP
HL CE86	1/2COMP*3/8COMP
HL CE106	5/8COMP*3/8COMP
HL CE108	5/8COMP*1/2COMP

Compression*MIP Elbow

HLCME22	1/8COMP*1/8MIP
HLCME32	3/16COMP*1/8MIP
HLCME34	3/16COMP*1/4MIP
HLCME36	3/16COMP*3/8MIP
HLCME42	1/4COMP*1/8MIP
HLCME44	1/4COMP*1/4MIP
HLCME46	1/4COMP*3/8MIP
HLCME48	1/4COMP*1/2MIP
HLCME52	5/16COMP*1/8MIP
HLCME54	5/16COMP*1/4MIP
HLCME56	5/16COMP*3/8MIP
HLCME62	3/8COMP*1/8MIP
HLCME64	3/8COMP*1/4MIP
HLCME66	3/8COMP*3/8MIP
HLCME68	3/8COMP*1/2MIP

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HLCME74	7/16COMP*1/4MIP
HLCME76	7/16COMP*3/8MIP
HLCME84	1/2COMP*1/4MIP
HLCME86	1/2COMP*3/8MIP
HLCME88	1/2COMP*1/2MIP
HLCME812	1/2COMP*3/4MIP
HLCME106	5/8COMP*3/8MIP
HLCME108	5/8COMP*1/2MIP
HLCME1012	5/8COMP*3/4MIP
HLCME1212	3/4COMP*3/4MIP
HLCME1412	7/8COMP*3/4MIP

Compression*FIP Elbow

HLCFE44	1/4COMP*1/4FIP
HLCFE84	1/2COMP*1/4FIP
HLCFE86	1/2COMP*3/8FIP
HLCFE88	1/2COMP*1/2FIP
HLCFE66	3/8COMP*3/8FIP
HLCFE108	5/8COMP*1/2FIP

Compression Tee

HLCT222	1/8COMP
HLCT333	3/16COMP
HLCT444	1/4COMP
HLCT555	5/16COMP
HLCT666	3/8COMP
HLCT777	7/16COMP
HLCT888	1/2COMP
HLCT101010	5/8COMP
HLCT121212	3/4COMP
HLCT141414	7/8COMP
HLCT446	1/4*1/4*3/8COMP
HLCT664	3/8*3/8*1/4COMP
HLCT644	3/8*1/4*1/4COMP
HLCT886	1/2*1/2*3/8COMP
HLCT10106	5/8*5/8*3/8COMP
HLCT10108	5/8*5/8*1/2COMP

Compression*MIP TEE

HLCMT444	1/4COMP*1/4COMP*1/4MIP
HLCMT555	5/16COMP*5/16COMP*5/16MIP
HLCMT666	3/8COMP*3/8COMP*3/8MIP
HLCMT888	1/2COMP*1/2COMP*1/2MIP
HLCMT101010	5/8COMP*5/8COMP*5/8MIP
HLCMT121212	3/4COMP*3/4COMP*3/4MIP
HLCMT442	1/4COMP*1/4COMP*1/8MIP
HLCMT554	5/16COMP*5/16COMP*1/4MIP
HLCMT665	3/8COMP*3/8COMP*5/16MIP
HLCMT886	1/2COMP*1/2COMP*3/8MIP
HLCMT10108	5/8COMP*5/8COMP*1/2MIP

Compression Union

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HLCU22	1/8COMP
HLCU33	3/16COMP
HLCU44	1/4COMP
HLCU55	5/16COMP
HLCU66	3/8COMP
HLCU64	3/8COMP*1/4COMP
HLCU77	7/16COMP
HLCU88	1/2COMP
HLCU86	1/2COMP*3/8COMP
HLCU1010	5/8COMP
HLCU1212	3/4COMP
HLCU1414	7/8COMP
HLCU106	5/8COMP*3/8COMP
HLCU108	5/8COMP*1/2COMP

Compression Insert

HLCI4	1/4COMP
HLCI5	5/16COMP
HLCI6	3/8COMP
HLCI8	1/2COMP
HLCI10	5/8COMP

Compression Cap

HLCC2	1/8CAP
HLCC3	3/16CAP
HLCC4	1/4CAP
HLCC5	5/16CAP
HLCC6	3/8CAP
HLCC7	7/16 CAP
HLCC8	1/2CAP
HLCC10	5/8CAP
HLCC12	3/4CAP
HLCC14	7/8 CAP

Compression Nut

HLCN2	1/8COMP
HLCN3	3/16COMP
HLCN4	1/4COMP
HLCN5	5/16COMP
HLCN6	3/8COMP
HLCN7	7/16COMP
HLCN8	1/2COMP
HLCN10	5/8COMP
HLCN12	3/4COMP
HLCN14	7/8 COMP

COMPRESSION SLEEVE

HLCS2	1/8COMP
HLCS3	3/16COMP
HLCS4	1/4COMP
HLCS5	5/16COMP
HLCS6	3/8COMP

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HLCS7 7/16COMP
HLCS8 1/2COMP
HLCS10 5/8COMP
HLCS12 3/4COMP
HLCS14 7/8COMP

FLARE FITTING

LONG FLARE NUT FORGED

HLFNL2 1/8
HLFNL3 3/16
HLFNL4 1/4
HLFNL5 5/16
HLFNL6 3/8
HLFNL8 1/2
HLFNL10 5/8
HLFNL12 3/4
HLFNL14 7/8

SHORT FLARE NUT FORGED

HLFNS2 1/8
HLFNS3 3/16
HLFNS4 1/4
HLFNS5 5/16
HLFNS6 3/8
HLFNS8 1/2
HLFNS10 5/8
HLFNS12 3/4
HLFNS14 7/8

90 ELBOW FLARE *FLARE

HLFE44 1/4
HLFE55 5/16
HLFE66 3/8
HLFE86 1/2 X 3/8
HLFE88 1/2
HLFE106 5/8 X 3/8
HLFE108 5/8 X 1/2
HLFE1010 5/8
HLFE1212 3/4

90 ELBOW FLARE*FIP

HLFFE42 1/4 X 1/8
HLFFE44 1/4
HLFFE64 3/8 X 1/4
HLFFE66 3/8
HLFFE68 3/8 X 1/2
HLFFE612 3/8 X 3/4
HLFFE84 1/2 X 1/4
HLFFE86 1/2 X 3/8
HLFFE88 1/2
HLFFE812 1/2 X 3/4
HLFFE106 5/8 X 3/8

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HLFFE108 5/8 X 1/2

HLFFE1012 5/8 X 3/4

90 ELBOW FLARE*MIP

HLFME22 1/8 X 1/8MIP

HLFME32 3/16 X 1/8MIP

HLFME33 3/16 X 3/16MIP

HLFME42 1/4 X 1/8MIP

HLFME44 1/4 X 1/4MIP

HLFME46 1/4 X 3/8MIP

HLFME48 1/4 X 1/2MIP

HLFME52 5/16 X 1/8MIP

HLFME54 5/16 X 1/4MIP

HLFME56 5/16 X 3/8MIP

HLFME62 3/8 X 1/8MIP

HLFME64 3/8 X 1/4MIP

HLFME66 3/8 X 3/8MIP

HLFME68 3/8 X 1/2MIP

HLFME612 3/8 X 3/4MIP

HLFME84 1/2 X 1/4MIP

HLFME86 1/2 X 3/8MIP

HLFME88 1/2 X 1/2MIP

HLFME812 1/2 X 3/4MIP

HLFME106 5/8 X 3/8MIP

HLFME108 5/8 X 1/2MIP

HLFME1012 5/8 X 3/4MIP

HLFME128 3/4 X 1/2MIP

HLFME1212 3/4 X 3/4MIP

HLFME1412 7/8 X 3/4MIP

FLARE UNION

HLFC22 1/8

HLFC33 3/16

HLFC44 1/4

HLFC54 5/16

HLFC64 5/16 X 1/4

HLFC64 3/8 X 1/4

HLFC65 3/8 X 5/16

HLFC68 3/8 X 1/2

HLFC66 3/8

HLFC810 1/2 X 5/8

HLFC84 1/2*1/4

HLFC86 1/2 X 3/8

HLFC88 1/2

HLFC106 5/8x3/8

HLFC108 5/8 X 1/2

HLFC1010 5/8

HLFC1012 5/8 X 3/4

HLFC128 3/4 X 1/2

HLFC1212 3/4

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FLARE CONNECTOR FLARE*MIP

HLFMA22	1/8 X 1/8MIP
HLFMA32	3/16 X 1/8MIP
HLFMA42	1/4 X 1/8MIP
HLFMA44	1/4 X 1/4MIP
HLFMA46	1/4 X 3/8MIP
HLFMA48	1/4 X 1/2MIP
HLFMA52	5/16 X 1/8MIP
HLFMA54	5/16 X 1/4MIP
HLFMA56	5/16 X 3/8MIP
HLFMA62	3/8 X 1/8MIP
HLFMA64	3/8 X 1/4MIP
HLFMA66	3/8 X 3/8MIP
HLFMA68	3/8 X 1/2MIP
HLFMA612	3/8 X 3/4MIP
HLFMA84	1/2 X 1/4MIP
HLFMA86	1/2 X 3/8MIP
HLFMA88	1/2 X 1/2MIP
HLFMA812	1/2 X 3/4MIP
HLFMA106	5/8 X 3/8MIP
HLFMA108	5/8 X 1/2MIP
HLFMA1012	5/8 X 3/4MIP
HLFMA128	3/4 X 1/2MIP
HLFMA1212	3/4 X 3/4MIP
HLFMA1412	7/8 X 3/4MIP

FLARE CONNECTOR MALE FLARE* FEMALE FLARE

HLFFMFA42	1/4X 1/8
HLFFMFA44	1/4
HLFFMFA52	5/16X 1/8
HLFFMFA54	5/16X 1/4
HLFFMFA46	1/4 X 3/8
HLFFMFA48	1/4X 1/2
HLFFMFA64	3/8X 1/4
HLFFMFA66	3/8X 3/8
HLFFMFA68	3/8X 1/2
HLFFMFA612	3/8*3/4
HLFFMFA84	1/2*1/4
HLFFMFA86	1/2 X 3/8
HLFFMFA88	1/2
HLFFMFA810	1/2 X 5/8
HLFFMFA812	1/2*3/4
HLFFMFA108	5/8X1/2
HLFFMFA1012	5/8 X 3/4
HLFFMFA128	3/4 X 1/2
HLFFMFA1210	3/4X 5/8

SWIVEL NUT UNION

HLFSU44	1/4
HLFSU55	5/16

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HLFSU66 3/8
HLFSU64 3/8*1/4
HLFSU86 1/2 X 3/8
HLFSU88 1/2
HLFSU108 5/8 x 1/2
HLFSU1010 5/8
HLFSU1212 3/4

FLARE CAP

HLFC3 3/16
HLFC4 1/4
HLFC5 5/16
HLFC6 3/8
HLFC8 1/2
HLFC10 5/8
HLFC12 3/4
HLFC15 15/16

PLUG

HLFP3 3/16
HLFP4 1/4
HLFP5 5/16
HLFP6 3/8
HLFP8 1/2
HLFP10 5/8
HLFP12 3/4

TEE

HLFT222 1/8
HLFT333 3/16
HLFT444 1/4
HLFT555 5/16
HLFT666 3/8
HLFT886 1/2*1/2*3/8
HLFT888 1/2
HLFT101010 5/8
HLFT121212 3/4
HLFT141414 7/8

CROSS

HLFCS6666 3/8
HLFCS8888 1/2

BONNETT

HLFB4 1/4
HLFB5 5/16
HLFB6 3/8
HLFB8 1/2
HLFB10 5/8

FLARE GASKET

HLFG4 1/4
HLFG5 5/16
HLFG6 3/8

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HLFG8 1/2
HLFG10 5/8
HLFG12 3/4

FLARE CONNECTOR MALE FLARE* FIP

HLFFA22	1/8 X 1/8FIP
HLFFA32	3/16 X 1/8FIP
HLFFA42	1/4 X 1/8FIP
HLFFA44	1/4 X 1/4FIP
HLFFA48	1/4 X 1/2FIP
HLFFA52	5/16 X 1/8FIP
HLFFA54	5/16 X 1/4FIP
HLFFA46	1/4 X 3/8FIP
HLFFA48	1/4 X 1/2FIP
HLFFA62	3/8 X 1/8FIP
HLFFA64	3/8 X 1/4FIP
HLFFA66	3/8 X 3/8FIP
HLFFA68	3/8 X 1/2FIP
HLFFA612	3/8 X 3/4FIP
HLFFA84	1/2 X 1/4FIP
HLFFA86	1/2 X 3/8FIP
HLFFA88	1/2 X 1/2FIP
HLFFA810	1/2 X 5/8FIP
HLFFA812	1/2 X 3/4FIP
HLFFA106	5/8 X 3/8FIP
HLFFA108	5/8 X 1/2FIP
HLFFA1012	5/8 X 3/4FIP
HLFFA128	3/4 X 1/2FIP
HLFFA1212	3/4 X 3/4FIP
HLFFA1412	7/8 X 3/4FIP

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ADDITIONAL COMPANY INFO:

CB SUPPLIES LTD.

No-Lead Brass - PEX Insert Brass Tee 3/8" to 1 1/4"
No-Lead Brass - PEX Insert Brass 90 Elbow 3/8" to 1 1/4"
No-Lead Brass - PEX X Male SWT 90 Elbow 3/8" to 1 1/4"
No-Lead Brass - PEX X FPT Nut Swivel Elbow 3/8" to 1 1/4"
No-Lead Brass - PEX X FIP Drop Ear Elbow 3/8" to 1 1/4"
No-Lead Brass - PEX Coupling 3/8" to 1 1/4"
No-Lead Brass - PEX X FIP Adapter 3/8" to 1 1/4"
No-Lead Brass - PEX X MIP Adapter 3/8" to 1 1/4"
No-Lead Brass - PEX X Male SWT Adapter 3/8" to 1 1/4"
No-Lead Brass - PEX X Female SWT Adapter 3/8" to 1 1/4"
No-Lead Brass - PEX X FIP Swivel Adapter 3/8" to 1 1/4"
No-Lead Brass - PEX PLUG 3/8" TO 1 1 /4"

EVERFLOW SUPPLIES INC.

BRASS FITTING

BRASS PEX MALE ADAPTER 3/8" to 1 1/4"
BRASS PEX FEMALE ADAPTER 3/8" to 1 1/4"
BRASS PEX MALE SWEAT ADAPTER 3/8" to 1 1/4"
BRASS PEX FEMALE SWEAT ADAPTER 3/8" to 1 1/4"
BRASS PEX TEE 3/8" to 1 1/4"
BRASS PEX COUPLING 3/8" to 1 1/4"
BRASS PEX 90 DEGREE ELBOW 3/8" to 1 1/4"
BRASS PEX PLUG 3/8" to 1 1/4"
BRASS PEX MPT Elbow 3/8" to 1 1/4"
BRASS PEX Swivel FPT Adapter 3/8" to 1 1/4"
BRASS PEX Drop-ear FPT ELBOW 3/8" to 1 1/4"
BRASS PEX Swivel Elbows W/Plastic or brass Nut 3/8" to 1 1/4"
Copper crimp rings 3/8" to 1 1/4"
Copper crimp rings with stop 3/8" to 1 1/4"
Copper 90 Elbow PEX to Copper 3/8" to 1 1/4"
Copper stub out elbow 3/8" to 1 1/4", (to maximum 12" length and header ends consisting of plain end, closed, barbed or threaded adapters or Tee)
Copper straight copper stub 3/8" to 1 1/4"

Nibco, Inc.

<u>Model No.</u>	<u>Description</u>
PX80911	1/2" Copper Crimp Sleeve
PX80921	3/4" Copper Crimp Sleeve
PX80931	1" Copper Crimp Sleeve

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