





PMG-1438

Effective Date: August 2024 This listing is subject to re-examination in one year.

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A Subsidiary of the International Code Council®

CSI: DIVISION: 23 00 00—HEATING, VENTILATING AND AIR CONDITIONING (HVAC)

Section: 23 11 00—Facility Fuel Piping

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Products: Aquatechnik Gas PEX-AL-PEX Pipe and Fitting System

Listee: Aquatechnik Group s.p.a

Via P.F. Calvi, 40

Magnago (MI) 20020 Italy www.aquatechnik.it www.aquatechnikNA.com

Compliance with the following codes:

2024, 2021, 2018, 2015, 2012 and 2009 International Fuel Gas Code® (IFGC) 2024, 2021, 2018, 2015, 2012 and 2009 International Residential Code® (IRC) 2024, 2021, 2018, 2015, 2012 and 2009 Uniform Plumbing Code® (UPC)*

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Compliance with the following standards:

ASTM F1281-2024, Standard Specification for Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Pressure Pipe

Identification:

Pipe: The Aquatechnik PEX-AL-PEX pipe shall be marked every 5 feet (1.5 m) with the following: company name or trademark, material (PEX-AL-PEX), nominal size (for example, 1216), temperature and pressure ratings, ASTM F1281 designation, production code, and the ICC-ES PMG listing mark.

Fittings: Fittings shall be marked with manufacturer's name or trademark, and the ICC-ES PMG listing mark.

Installation:

Aquatechnik PEX-AL-PEX pipes must be installed in accordance with the manufacturer's published installation instructions, the applicable codes and this listing.



Authority Having Jurisdiction for the area in which this product is to be installed, shall have the final decision regarding approval for installation in accordance with Sections R104.11 and G2415.17 of the IRC, Sections 105.2 and 404.17 of the IPC, and Sections 301.3 and 1210.1.7 of the UPC.

Models:

The pipe is available in nominal pipe sizes from 1/2 inches (1216 mm) to 2-1/2 inches (6075 mm) (6075 mm). Aquatechnik Multi-Gas pipe are yellow in color for gas applications

Pipe: Aquatechnik Multi-Gas PEX-AL-PEX pipe is manufactured from cross-linked polyethylene (PEX) and aluminum materials satisfying ASTM F1281.

COD	Description	Dimensions
174303U		½" x 0.08"
174303		/2 X U.UU
174304U		½" x 0.08"
174304		72 X 0.00
174307U		5⁄8" x 0.08"
174307		
174308U	PN 10 - 95° C, in yellow rolls	%" x 0.08"
174308		
174309U 174309		%" x 0.12"
174309 174310U		
174310		%" x 0.12"
174311U		4" 0.40"
174311		1" x 0.12"
174312U		1" x 0.12"
174312		1 X 0.12
174323U	PN 10 - 95° C, with corrugated insulation, in yellow rolls	½"x 0.08"
174323		72 X 0.00
174324U		½"x 0.08"
174324		723330
174327U		%"x 0.08"
174327		
174328U 174328		%"x 0.08"
174329U		
174329		7⁄₃"x 0.12"
174330U		7/11 0 4011
174330		⅓"x 0.12"

Fitting: Aquatechnik Safety®-Gas Brass Fittings of the following sizes can only be used on Aquatechnik PEX-AL-PEX pipe; fittings cannot be used with pipe from other manufacturer.

COD	Description	Dimensions
240022U	THREADED JOINT M, safety-gas with NPT thread	M ½"- sm ½"
240026U		M ½"- sm ⅓"
240030U		M ¾"- sm ¾"
240032U		M 1"-sm ⅓"
240034U		M 1"-sm 1"
30044U	THREADED JOINT M/F,safety-gas with NPT thread	M ½" - sf 5%"
30045U		M 3/4" - sf 7/8"
30046U		M ¾" - sf 1"
30048U		M 1" - sf %"
30047U		M 1" - sf 1"

30072U	30070U	THREADED JOINT M, safety-metal, of alloy, for manifolds ø 26 and 32 mm, nickel-plated, with NPT thread	M 1" - sf 1/6"
240086U	30072U		M 1" - sf 1"
240088U THREADED JOINT F, safety-gas with NPT thread F ½*- sm ½** 240090U F ½*- sm ½** 240094U F 1*- sm 1** 30106U F ½*- sf ½** 30107U F ½*- sf ½** 30108U THREADED JOINT F/F, safety-gas with NPT thread F ½*- sf ½** 30110U F ½*- sf ½** F ½*- sf ½** 30111U F ½*- sf ½** Sf ½*- sm ½** 240122U sf ½*- sm ½** sf ½*- sm ½** 240126U REDUCER, safety-gas sf ½*- sm ½** 240130U Sf ½*- sm ½** sf ½*- sm ½** 240132U THREADED ELBOW F, safety-gas with bracket, with NPT thread F ½*- sm ½** 240206U THREADED ELBOW F, safety-gas with NPT thread F ½*- sm ½** 240260U THREADED ELBOW F, safety-gas with NPT thread F ½*- sm ½** 240270U M ½*- sm ½** F ½*- sm ½** 240326U THREADED ELBOW M, safety-gas with NPT thread M ½*- sm ½** 240730U REDUCED TEE, safety-gas with NPT thread M ½*- sm ½** 240730U REDUCED TEE, safety-gas safety-gas with "S m ½*- sm ½* 240752U	240082U		F ½"- sm ½"
240090U 240094U F 1/- sm 1/" 30106U 30107U 30108U 30109U THREADED JOINT F/F, safety-gas with NPT thread F 1/- sm 1/" 240122U 240124U 240126U 240130U 240130U 240132U THREADED ELBOW F, safety-gas with bracket, with NPT thread F 1/- sm 1/" 240266U 240266U 240260U THREADED ELBOW F, safety-gas with NPT thread F 1/- sm 1/" F 1/- sm	240086U		F ½"- sm ⁵ ⁄ ₈ "
240094U 30106U 30106U 30107U 30108U THREADED JOINT F/F, safety-gas with NPT thread F ½* - sf ½* F ½* - sm ½	240088U		F ¾"- sm ⅓"
30106U 30107U 30108U THREADED JOINT F/F, safety-gas with NPT thread F ½* - sf ½* F ½* - sm ½* S f ½* - sm ½*	240090U		F ¾"- sm ½"
30107U 30108U 30108U THREADED JOINT F/F, safety-gas with NPT thread F ½" - sf ½" F ½" - sm ½" F ½	240094U		F 1"- sm 1"
THREADED JOINT F/F, safety-gas with NPT thread F ½" - sf ½"	30106U		F ½" - sf 5%"
30109U 30110U 30111U F\%" - sf 1" F 1" -	30107U		F ½" - sf ½"
30109U 30110U 30111U Ft/s - sf 1" Sf 1/s - sm 1/s" Sf 1" - sm 1/s"	30108U	THREADED JOINT F/F. safety-gas	F 3/4" - sf 7/8"
30111U 240122U 240124U 240126U 240126U 240128U 240130U 240132U 240202U THREADED ELBOW F, safety-gas with NPT thread 240266U 240270U 240274U 240322U 240328U THREADED ELBOW M, safety-gas with NPT thread THREADED ELBOW M, safety-gas with NPT thread F ½*- sm ½* F ½*-	30109U		F¾" - sf 1"
240122U 240124U 240126U REDUCER, safety-gas Sf %" - sm ½" Sf 1" -	30110U	7	F 1" - sf 1"
240124U 240126U REDUCER, safety-gas sf ¼" - sm ½" sf ½" - sm ½" sf	30111U		F ½" - sf 1"
REDUCER, safety-gas Sf %" - sm %" Sf 1"	240122U		sf 5/8" - sm 1/2"
REDUCER, safety-gas sf 1" - sm ½" sf 1"	240124U		sf ½" - sm ½"
240128U St 1" - sm ½" St	240126U		sf 1/8" - sm 5/8"
240132U Sf 1" - sm ½" Sf	240128U	REDUCER, safety-gas	sf 1" - sm ½"
240202U			
### THREADED ELBOW F, safety-gas with bracket, with NPT thread ####################################	240132U		
240266U 240262U 240266U THREADED ELBOW F, safety-gas with NPT thread 240274U 240322U 240326U THREADED ELBOW M, safety-gas with NPT thread F 1"- sm 1" 240329 240330U THREADED ELBOW M, safety-gas with NPT thread M ½- sm ½" M ½- sm ½" M ½- sm ½" M ½- sm ½" M 1"- sm 1" 240720U 240730U REDUCED TEE, safety-gas sm 1"- sm ½" - sm ½" sm ½- sm ½" sm 1"- sm ½" sm ½- sm ½" sm ½- sm ½" sm ½- sm ½" sm ½-	240202U	THREADED ELBOW F, safety-gas	F ½"- sm ½"
240266U THREADED ELBOW F, safety-gas with NPT thread F ½"- sm ½" 240274U F 1"- sm 1" 240322U M ½"- sm ½" 240326U THREADED ELBOW M, safety-gas with NPT thread M ½"- sm ½" 240330U M ½"- sm ½" 240334U M 1"- sm 1" 240720U sm ½" - sm ½" - sm ½" - sm ½" 240730U sm 1"- sm ½" - sm ½" - sm ½" 240752U sm 1" - sm ½" - sm ½" - sm 1" 240382U sm ½" - sm ½" - sm ½" 240386U ELBOW , safety-gas sm ½" - sm ½"	240206U	with bracket, with NPT thread	F ½"- sm ¾"
240270U with NPT thread F ½"- sm ½"	240262U		F ½"- sm ½"
240270U with NPT thread F ½"- sm ½" 240274U F 1"- sm 1" 240322U M ½"- sm ½" 240326U THREADED ELBOW M, safety-gas with NPT thread M ½"- sm ½" 240330U M ½"- sm ½" 240720U sm ½"- sm ½" 240730U sm ½" - sm ½" - sm ½" 240746U sm ½" - sm ½" - sm ½" 240752U sm 1"- sm ½" - sm ½" - sm 1" 240382U sm ½" - sm ½" 240386U ELBOW , safety-gas	240266U	THREADED ELBOW F. safety-gas	F ½"- sm 5%"
240322U	240270U		F ¾"- sm ½"
240326U THREADED ELBOW M, safety-gas with NPT thread M ½"- sm ½"	240274U	1	F 1"- sm 1"
240330U with NPT thread M ¾"- sm ½" 240334U M 1"- sm 1" 240720U sm ½" - sm ½" - sm ½" - sm ½" 240730U sm ½" - sm ½" - sm ½" - sm ½" 240746U sm 1"- sm ½" - sm 1" 240752U sm 1" - sm ½" - sm 1" 240382U sm ½" - sm ½" 240386U ELBOW , safety-gas	240322U		M ½"- sm ½"
240330U with NPT thread M ¾"- sm ½" 240334U M 1"- sm 1" 240720U sm ½" - sm ½" - sm ½" - sm ½" 240730U sm ½" - sm ½" - sm ½" - sm ½" 240746U sm 1"- sm ½" - sm 1" 240382U sm ½" - sm ½" 240386U ELBOW , safety-gas	240326U	THREADED ELBOW M, safety-gas	M ½"- sm ¾"
240720U sm 5/6" - sm 1/2" - sm 5/6" 240730U sm 7/6" - sm 5/6" - sm 7/6" - sm 7/6" 240746U sm 1" - sm 5/6" - sm 1" 240752U sm 1" - sm 1" 240382U sm 1/2" - sm 1/2" 240386U ELBOW , safety-gas	240330U		M 3/4"- sm 7/8"
240730U REDUCED TEE, safety-gas 240746U 240752U sm 1"- sm ½" - sm 1" sm 1" - sm ½" - sm 1" sm 1" - sm ½" - sm ½"	240334U	7	M 1"- sm 1"
240746U REDUCED TEE, safety-gas 240752U sm 1"- sm %" - sm 1" 240382U sm ½" - sm ½" 240386U ELBOW , safety-gas sm ½" - sm ½" sm ½" - sm ½"	240720U		sm %" - sm ½" - sm %"
240746U sm 1"- sm %" - sm 1" 240752U sm 1" - sm ½" - sm 1" 240382U sm ½" - sm ½" 240386U ELBOW , safety-gas sm ½" - sm ½"	240730U	REDITCED TEE cofoby acc	sm 1/8" - sm 5/8" - sm 1/8"
240382U sm ½" - sm ½" 240386U ELBOW , safety-gas sm 5%" - sm 5%"	240746U	NEDUCED TEE, Salety-gas	sm 1"- sm 5/6" - sm 1"
240386U ELBOW , safety-gas sm %" - sm %"	240752U		sm 1" - sm 1/6" - sm 1"
	240382U		sm ½" - sm ½"
240390U sm 1/6" -sm 1/6"	240386U	ELBOW , safety-gas	sm %" - sm 5/8"
	240390U		sm ½" -sm ½"

240394U		sm 1" - sm 1"
240442U		sm ½" - sm ½"
240446U	DIDE COLUDI NO. 11	sm %" - sm %"
240450U	PIPE COUPLING, safety-gas	sm ⅓" - sm ⅓"
240454U		sm 1" - sm 1"
240662U	TEE, safety-gas	sm ½" - sm ½" - sm ½"
240666U		sm ¾" - sm ¾" - sm ¾"
240670U		sm ½" - sm ½" - sm ½"
240674U		sm 1" - sm 1" - sm 1"
249102U	PA-M CAP, safety-gas, yellow color	sf ½"
249106U		sf ¾"
249108U		sf ⅓"
249110U		sf 1"

Conditions of Listing:

- 1. During placement of cover over the pipe, the pipe must be maintained at the greater of 1½ times the working pressure or 100 psi (689.4 kPa).
- 2. The Aquatechnik PEX-AL-PEX pipe and fittings recognized in this listing shall be installed as a system and fittings shall be not used on pipes from other manufacturer.
- The Authority Having Jurisdiction for the area in which this product is to be installed, shall have the final decision regarding approval for installation in accordance with Sections R104.11 and G2415.17 of the IRC, Sections 105.2 and 404.17 of the IPC, and Sections 301.3 and 1210.1.7 of the UPC.
- 4. The pipe installation must be pressure-tested for leaks in the presence of the code official or the code official's designated representative.
- 5. When installation is in fire-resistance-rated assemblies, evidence must be provided to the code official of compliance with *International Building Code*® (IBC) Section 713 (penetrations).
- 6. The pipe must not be used as a source of electrical ground.
- 7. Pipe bends must be installed in accordance with the manufacturer's published installation instructions.
- 8. When the system is embedded in concrete, piping must be covered a minimum of ³/₄ inch (19.1 mm) and installation must comply with IBC Section 1906.3 or UBC Section 1906.3, as applicable.
- 9. Pipe and Fittings recognized in this listing are under a quality control program with surveillance inspections two times per year by ICC-ES.