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Date: 2013/01/25
Subscriber: 441098001
PartySite: 88391
File No: EX6157
Project No: 12CA09564
PD No: 13M03583
Type: R
PO Number:

Subject: **Procedure And/Or Report Material**

The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
2013/01/23	3	1	Cert of Compliance	
2013/01/23	3	1	Add New Volume	
2013/01/23			Add New Indep Report	

Resending all documents to reflect some changes that were made to the description IP, description IR and test record IR all dated 2013-01-23. Please completely replace the documents for the same date in your file with the ones provided.

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to UL's Customer Service Professionals. Contact information for all of UL's global offices can be found at <http://www.ul.com/global/eng/pages/corporate/contactus>.

If you'd like to receive updated materials FASTER, UL offers electronic access and/or delivery of this material. For more details, contact UL's Customer Service Professionals as shown above.

This material is provided on behalf of UL LLC (UL) or any authorized licensee of UL.

NBK File

Follow-Up Service Procedure

DO NOT DISCARD THIS PAGE

It is important to keep UL Procedures and Test Reports up-to-date as new or revised pages are received. Correct maintenance will decrease the amount of time the UL Representative spends when visiting your facility.

UL LLC offers MyHome @UL, a dedicated website providing secure access to online tools and databases that can help simplify your compliance activities. You can customize your personal MyHome @UL page to include the content needed most, including timely information about certification updates and links to other Web sites you visit regularly. Visit <http://my.home.ul.com/> to sign up today!

PAGES (in content order)	FUNCTION	HOW TO UPDATE
Authorization Page	Displays the Product Category, the type of Follow-Up Service (Type R=Reexamination / Type L=Label), the File Number and the Volume Number associated with each Applicant's, Manufacturer's and Listee's company name and address.	Replace existing page by matching the UL File Number and Volume Number. Discard the older page (refer to "Issued" or "Revised" date).
Addendum to Authorization Page*	Lists the additional names and addresses of manufacturing locations, when multiple locations exist	Replace existing page by matching the UL File Number and Volume Number. Discard the older page (refer to "Issued" or "Revised" date).
Listing Mark Data (LMD), Classification Mark Data (CMD) or Recognized Component Mark Data (RCMD) Pages* #	Used only for products covered under Type R Service. Displays the correct LMD, CMD, or RCMD Mark, the Control Number for Listed and Classified categories and additional information regarding minimum size, application, procurement, and any other optional markings, in addition to the UL Mark.	Replace existing page by matching the UL File Number and Volume Number. Discard the older page (refer to "Issued" or "Revised" date).
Multiple Listing (ML) Correlation Sheet	Correlates product model numbers between those products made by a Manufacturer for the Basic Applicant and those supplied to another company, the Multiple Listee.	Replace, add or delete page(s) with most current "Issued" or "Revised" date.
Index*	Catalogs the contents of the Procedure by some logical means, i.e. Section Number, Report Reference Number, or Issue Date.	Replace present page by matching the UL File Number, Volume Number, Page Number and most current "Revised" date.
Appendices* # (App.)	Contains instructions for the Manufacturer and UL Representative concerning specific responsibilities and required periodic tests. May also outline tests to be conducted on samples to be forwarded to UL's facilities.	Replace present page by matching the UL File Number, Volume Number, Appendix letter (eg. App. A), Page Number and most current "Revised" date.
	Standardized Appendix Pages are the same for all manufacturers within a particular product category.	Replace present page by matching the Appendix letter (eg. App. A), Page Number and most current "Revised" date.
Follow-Up Inspection Instructions (FUII) Pages*	Contains information similar to that in the Appendices. FUII Pages are issued as part of the Procedure when a UL Standard is used in conjunction with the Procedure, and are the same for all manufacturers within a particular category.	Replace present pages by matching the Page Number and most current "Issued" or "Revised" date.
Section General* # (Sec. Gen.)	Contains description, requirements, identifications and/or specifications that are common to all products covered by the entire volume and supplements the information provided in the Description Section.	Replace present page by matching the UL File Number, Volume Number, Page Number and most current "Revised" date.
Description, or Section (Sec.)	Contains the specific description of one or more products or systems. This includes written text supplemented by photographs, drawings, etc., as necessary, to define features that affect compliance with the applicable requirements.	Replace present page by matching the UL File Number, Volume Number, Section Number, Page Number and most current "Issued" date.

* The above page(s) may not appear in all UL Follow-Up Service Procedures; UL's Conformity Assessment Services staff determines their inclusion.

These pages are combined in the **Generic Inspection Instructions** for International Style Reports, identified, as example by Vol. X1, X2, etc.

PLEASE NOTIFY YOUR LOCAL UL OFFICE OF ANY CHANGES IN CONTACT NAME, COMPANY NAME OR ADDRESS, SO THIS MATERIAL AND IMPORTANT INFORMATION CONTINUES TO BE DELIVERED TO YOUR FACILITY WITHOUT INTERRUPTION.



FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

FITTINGS, RUBBER GASKETED
(VIZM,VIZM7)

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

88391 (Party Site)
Applicant: VIEGA GMBH & CO KG
(441098-001) ENNESTER WEG 9
57439 ATTENDORN GERMANY

2894278 (Party Site)
Listee/Classified Co.: VIEGA MEGAPRESS LLC (EX16265)
(100595-177) EPIC CENTER
301 N. MAIN, FLOOR 9
WICHITA KS 67202

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party and any applicable Service Terms. The UL Contracting Party for Follow-Up Services is listed on addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

UL further defines responsibilities, duties and requirements for both Manufacturers and UL representatives in the document titled, "UL Mark Surveillance Requirements" that can be located at the following web-site: <http://www.ul.com/fus> and in the document titled "UL and Subscriber Responsibilities" that can be located at the following website: <http://www.ul.com/responsibilities>. Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the applicable Service Terms, please contact UL's Customer Service at <http://www.ul.com/global/eng/pages/corporate/contactus>, select a location and enter your request, or call the number listed for that location.

The Applicant, the specified Manufacturer(s) and any Listee/Classified Co. in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable agreement is a Global Services Agreement ("GSA") with an effective date of January 1, 2012 or later and this Follow-Up Service Procedure is issued on or after that effective date, the Applicant, the specified Manufacturer(s) and any Listee/Classified Co. will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of use of the prescribed UL Mark, acceptance of the factory inspection, or payment of the Follow-Up Service fees which will incorporate such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking here: <http://www.ul.com/contracts/Terms-After-12-31-2011>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

It is the responsibility of the Listee/Classified Co. to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

This Follow-Up Service Procedure contains information for the use of the above Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Manufacturer with the understanding that it will be returned upon request and is not to be copied in whole or in part.

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the above named Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

UL LLC has signed below solely in its capacity as the accredited entity to indicate that this Follow-Up Service Procedure is in compliance with the accreditation requirements.

William R. Carney
Director
North American Certification Program

LOCATION

(441098-001) 88391 (Party Site)
VIEGA GMBH & CO KG
ENNESTER WEG 9
57439 ATTENDORN GERMANY
Factory ID: NONE
UL Contracting Party for above site is: UL AG

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

LISTING MARK

The Listing Mark consists of four elements placed in close proximity and shall appear on Listed products only. Minimum size is not specified, as long as the Listing Mark is legible. The following is suggested.



XXXX = The control number assigned by UL, EX16265.

The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Mark is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye.

The product identity is: "RUBBER-GASKETED PIPE FITTING".

The product identity may be omitted if the Mark is directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process. The product identity may appear elsewhere on the product if the other three elements are part of the nameplate which includes the rating or the catalog or model designation.

Separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) will always include the four elements.

The complete four element Listing Mark will appear on the smallest unit container in which the product is packaged when the product is of such a size that only the UL Symbol can be applied to the product or when the product size, shape, material or surface texture makes it impossible to apply any legible marking to the product.

The manufacturer may reproduce the Mark or obtain it from a UL authorized supplier.

THIS PAGE IS TO BE REVISED BY FUS DEPARTMENT ONLY

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

LISTING MARK

The Listing Mark consists of four elements placed in close proximity and shall appear on Listed products only. Minimum size is not specified, as long as the Listing Mark is legible. The following is suggested. (If only Canadian coverage is authorized, use only the C-UL Symbol).

UL Symbol to the left and the C-UL Symbol to the right.



Alternatively, the Canadian/US Mark may be used. The UL Symbol with "C" to the left and "US" to the right.



XXXX = The control number assigned by UL, EX16265.

The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Mark is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye.

The product identity is: "RUBBER-GASKETED PIPE FITTING".

The product identity may be omitted if the Mark is directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process. The product identity may appear elsewhere on the product if the other three elements are part of the nameplate which includes the rating or the catalog or model designation.

Separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) will always include the four elements.

All elements of the Listing Mark will appear on the smallest unit container in which the product is packaged when the product is of such a size that only the Symbol(s) can be applied to the product or when the product size, shape, material or surface texture makes it impossible to apply any legible marking to the product.

The manufacturer may reproduce the Mark or obtain it from a UL authorized supplier.

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MegaPress	3	1

APPENDIX A

INSTRUCTIONS TO THE UL FIELD REPRESENTATIVE FOR EXAMINATION OF PRODUCT

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UL Representative's Responsibilities	
Procedure in the Event of Nonconformance	
Instructions for Examination of the Product	
UL Representative's Countercheck Program	
a.	Verification of Material
b.	Examination of Parts and Subassemblies
c.	Visual Inspection
d.	Countercheck Tests

UL REPRESENTATIVE'S RESPONSIBILITIES:

The UL Representative's duties include, but are not limited to:

Examining the construction of production intended to bear the UL Mark or Marking to determine compliance with the description of the product and any other requirements expressed in this Procedure.

Where so specified in App. B, forward samples to UL for follow-up tests.

Witness the manufacturer's personnel conduct the testing to be witnessed by the UL Representative when described in App. D.

Witness the manufacturer's personnel conduct production testing when described in App. D.

Where so specified in App. D, inspect the test records and facilities of the manufacturer to ensure that:

- a. The proper number of samples are undergoing the required tests,
- b. The required tests are being performed correctly,
- c. The proper information is being recorded and is up-to-date, and
- d. The instruments being used for the tests have been calibrated at the prescribed interval and are in good working order.

Reporting to the manufacturer and Follow-Up Services Department by means of a Variation Notice (VN) if:

- a. Variations in construction are found,
- b. The manufacturer's method and/or frequency of test is not as described,

- c. The records maintained by the manufacturer are not as described,
- d. The manufacturer's inspection program is not being performed as described,
- e. Unacceptable test results are witnessed during tests conducted specifically for the UL Representative, or
- f. The manufacturer fails to calibrate his test gauges at the specified intervals.

Explain to the manufacturer that a VN is a means of communication with the manufacturer and forms a record of those items where nonconformance to the Procedure has been found.

PROCEDURE IN THE EVENT OF NONCONFORMANCE:

When a product does not comply with the Follow-Up Service Procedure, the manufacturer shall be required to either

- a. Remove any markings referencing UL from the product,
- b. Suitably modify all products that do not comply with the Follow-Up Service Procedure, or
- c. Hold shipment pending further instructions from UL.

In the event of disagreement between the manufacturer and the UL Representative as to whether a product is acceptable, the manufacturer shall hold production at the factory pending resolution of the variations. The manufacturer has the right to appeal a decision with which he/she disagrees. Should Follow-Up Services grant temporary authorization for the continued use of the UL Mark, such temporary authorization shall only be for the time needed to review and/or process the Procedure revisions, or as otherwise specified to cover a particular lot or production run.

INSTRUCTIONS FOR EXAMINATION OF THE PRODUCT:

At each inspection, samples of current production and/or stock, which the manufacturer has previously determined acceptable, shall be examined for compliance with the applicable descriptions and requirements contained in this Procedure.

UL REPRESENTATIVE'S COUNTERCHECK PROGRAM:

VERIFICATION OF MATERIAL:

At each inspection, the UL Representative shall review the manufacturer's records to determine compliance with material, plating, and paint specifications.

EXAMINATION OF PARTS AND SUBASSEMBLIES:

At each inspection, the UL Representative shall:

- a. Select one or more assembled products, parts and subassemblies from stock or current production and examine the construction of the product to determine compliance with the description of the product and any other requirements expressed in this Procedure. Particular attention shall be given to those items specified below.
- b. The body castings of the product shall be examined for defects. The castings shall be free from scale, lumps, cracks, blisters, sand holes, and defects of any nature that could make the product unfit for the use in which it is intended. A casting shall not be plugged or filled, but may be impregnated to remove porosity.
- c. Threads shall be checked with the appropriate thread gauges. Orifices shall be checked with drill or other appropriate gauges. Other dimensions shall be checked with measuring instruments, such as micrometers, steel rulers, calipers, hole gauges, etc.
- d. The drawings show all production dimensions, but for inspection purposes, the checks described below will be sufficient. Other dimensions need not be measured, but shall be periodically surveyed to confirm the general design, location of threaded openings, holes, etc., are as shown on the illustrations.

The critical dimensions on the illustrations shall be checked at each inspection. Critical dimensions are dimensions that can directly affect the performance characteristics of the product. These include, but are not limited to:

- flow path geometry for fluid transmission components
- wall thickness for pressure retaining components
- special close (or tight) tolerances
- clearance or interference fit between mating components
- specific geometric, positional, or angle tolerances
- form tolerances for single features and for related features
- surface roughness, waviness, and lay

VISUAL INSPECTION:

At each inspection, the UL Representative shall visually survey the completely assembled product and packaging and determine:

- a. The product and/or packaging contains the required marking as specified in the Procedure.
- b. The product has been assembled and contains all components as specified in the assembly drawings of the Procedure.
- c. The installation and use instructions (or other instructions) are provided with each packaged product or shipment of product as specified in the Procedure.
- d. The installation instructions (or other instructions) provided with the product are the same as specified in the Procedure.

COUNTERCHECK TESTS:

UL Representative shall witness testing conducted by the manufacturer as specified in Appendix D.

APPENDIX B

INSTRUCTIONS TO THE UL FIELD REPRESENTATIVE FOR SAMPLE PICK-UP

UL REPRESENTATIVE:

Certain products covered by this Procedure employ constructions or materials requiring periodic follow-up tests by UL.

The selected samples shall be properly tagged and identified, and forwarded to the Follow-Up Services Department, Northbrook Office.

The tests to be conducted at UL are indicated in App. C.

SAMPLES FOR DEPARTMENT 3019XFPD:

Once (twice or four times or other frequency, as appropriate) each year, select the following samples, mark with the appropriate identification and forward the samples and appropriate Material Safety Data Sheets (MSDS) to the Department 3019XFPD at Northbrook.

ELASTOMERIC MATERIALS:

Six (6) slab samples (6 in. by 6 in. by 80 mils) of the following elastomeric materials.

Part	Manufacturer	Material	Compound
Rubber Gasket	Viega	EPDM	B1-4771 or B1-4750

APPENDIX C

INSTRUCTIONS FOR FOLLOW-UP TESTS AT THE UL TESTING FACILITY

DEPARTMENT 3019XFPD:

PHYSICAL TESTS OF ELASTOMERIC MATERIALS:

Method

The samples of the elastomeric materials shall be tested in accordance with UL 157.

The tests to be conducted are:

- A. Tensile and Elongation
- B. Oven Aging
- C. Permanent Set
- D. Hardness

Basis for Acceptability

The results before and after aging shall comply with UL 213. In addition, the as-received hardness shall be as specified.

Part	Manufacturer	Material	Compound	Hardness, Shore Type A, +/- 5 units
Rubber Gasket	Viega	EPDM	B1-4771 or B1-4750	70

APPENDIX D

MANUFACTURER'S RESPONSIBILITIES AND REQUIREMENTS FOR FACTORY TESTS AND INSPECTION

TABLE OF CONTENTS:

Manufacturer's Responsibilities
General
Manufacturer's Test Program
Calibration of Testing and Measuring Equipment

MANUFACTURER'S RESPONSIBILITIES:

GENERAL:

The manufacturer's responsibilities include, but are not limited to:

a. Restricting the use of markings that reference UL (either directly by use of the name, an abbreviation of it, or the UL symbol or Recognition Mark, or indirectly by means of agreed upon markings that are understood to indicate acceptance by UL) to those products that are found by the manufacturer's own inspection to comply with the Follow-Up Service Procedure description. Use of such markings is further limited by the Agreements that have been executed by the Subscriber and UL.

b. Conducting the factory tests detailed in App. D.

c. Determining that the test equipment is functioning properly and calibrated at the required frequency, or whenever it has been subjected to abuse (such as being dropped or struck with an object) or its accuracy is questionable. Calibration may be by the manufacturer or an outside laboratory. In either case, it shall be by comparison with a standard that is traceable to the applicable U.S. or foreign National Standard. Certification of calibration shall be maintained by the manufacturer until the next succeeding certification, and shall be readily available for review by the UL Representative.

d. Maintaining records of test performance. The records shall include the model or catalog designation of the product, the date of production, the tests performed, and the test results. Records may consist of a statement that a lot or group was tested and the results were acceptable. The records shall be retained for 6 months and shall be readily available for review by the UL Representative.

Exception: Records of test results need not be maintained for 100 percent Production Line Tests.

e. Providing a system to identify and isolate material as having been tested or not tested, found to comply or not to comply, scheduled for rework, or the like. Tags, or a similar means of identification, to indicate the required information, are acceptable for this purpose.

f. Instituting corrective action when unacceptable features are found. The manufacturer shall bring unacceptable features of incoming parts and subassemblies to the vendor's attention so that corrective action is taken.

g. Keeping records of raw materials, parts, and subassemblies to verify correct material specifications and compliance with plating and painting specifications, where appropriate. These records shall be made available to the UL Representative upon request.

MANUFACTURER'S TEST PROGRAM:

As a minimum, the manufacturer shall conduct the following tests, as described below.

NONE

CALIBRATION OF TESTING AND MEASURING EQUIPMENT:

The manufacturer shall maintain a program to assure that testing and measurement equipment used in production and/or inspection is kept clean, maintained in good working order, and in calibration. Testing and measurement equipment shall be calibrated as follows:

- a. At least annually.
- b. Whenever the gauge has been subjected to physical abuse such as might result from its being dropped or struck with an object.
- c. At any other time when the accuracy of the gauge appears questionable.

The testing and measurement equipment shall be calibrated against a standard traceable to a National Standard.

Certification of this calibration shall be maintained by the manufacturer until the next succeeding certification is provided and shall be available for review by the UL representative.

Calibration frequency should be increased in cases where the results of previous calibrations indicate that such action is appropriate.

GENERAL

PRODUCT COVERED:

Rubber gasketed fittings.

MARKING:

1. The housing of a rubber gasketed fitting shall be marked with the following, where visible after installation:

- a) Name or identifying symbol of the manufacturer or private labeler.
- b) Nominal size of fitting.
- c) Distinctive model number or catalog designation.

Exception: The housing of configuration type rubber gasketed fittings (tees, elbows, etc.) are not required to be marked with a distinctive model number or catalog designation.

3. The markings required by 1. (a), (b), and (c) shall be included in the form of legible letters and figures on the fitting casting or on an etched or stamped brass or equivalently corrosion-resistant metal nameplate permanently mounted to the fitting.

4. The year of manufacture shall be marked on the fitting in accordance with 3. The year of manufacture is not prohibited from being in code. Fittings produced in the last 3 months of a calendar year are not prohibited from being marked with the following year as the date of manufacture.

5. If a manufacturer produces fittings at more than one factory, each fitting shall have a distinctive marking by which the fitting is identifiable as the product of a particular factory.

CERTIFICATE OF COMPLIANCE

Certificate Number 20130124-EX16265
Report Reference EX6157-20130123
Issue Date 2013-JANUARY-24

Issued to: VIEGA MEGAPRESS LLC
EPIC CENTER
301 N. MAIN, FLOOR 9
WICHITA KS 67202


This is to certify that representative samples of FITTINGS, RUBBER GASKETED Model, MEGAPRESS.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: Standard for Rubber Gasketed Fittings for Fire Protection Service, UL 213 and ULC/ORD C213.

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers:  the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.



William R. Carney, Director, North American Certification Programs
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus





File EX6157
Project 12CA09564

January 23, 2013

REPORT

on

Fittings, Rubber Gasketed

Viega Gmbh & Co Kg
ATTENDORN, DEUTSCHLAND

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DESCRIPTION

PRODUCT COVERED:

USL, CNL Rubber gasketed fittings of the following types, sizes and rated pressures:

Press Fittings

MegaPress rubber gasketed fittings in the following types, sizes and rated pressures are intended for use with Schedule 10 and Schedule 40 steel sprinkler pipe and are to be installed in accordance with the manufacturer's installation instructions.

Groove Type	Size (in.)	Rated Pressure (psig)	Rated Pressure (kPa)
Cap (P)	1-1/4, 1-1/2, 2	175	1210
Coupling (P x P)	1-1/4, 1-1/2, 2	175	1210
90 Degree Elbow (P x P)	1-1/4, 1-1/2, 2	175	1210
45 Degree Elbow (P x P)	1-1/4, 1-1/2, 2	175	1210
Tee (P x P x P)	1-1/4, 1-1/2, 2	175	1210
Reducing Tee (P x P x P)	1-1/2 x 1-1/2 x 1-1/4; 2 x 2 x 1-1/4, 1-1/2	175	1210
Reducing Tee (P x P x NPT)	1 x 1 x 1/2, 3/4; 1-1/2 x 1-1/2 x 1/2, 3/4, 1, 1-1/4; 2 x 2 x 1/2, 3/4, 1, 1-1/4, 1-1/2	175	1210
Union (P x P)	1-1/4, 2	175	1210
Flange Adapter (P x F)	1-1/4, 1-1/2, 2	175	1210
Male Adapter (P x MNPT)	1, 1-1/4, 1-1/2, 2	175	1210
Female Adapter (P x FNPT)	1 x 1/2, 3/4, 1; 1-1/4 x 1/2, 3/4, 1, 1-1/4; 1-1/2 x 1/2, 3/4, 1, 1-1/4, 1-1/2; 2 x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2	175	1210

MegaPress rubber gasketed fittings in the following types, sizes and rated pressures are intended for use with Schedule 40 steel sprinkler pipe and are to be installed in accordance with the manufacturer's installation instructions.

Groove Type	Size (in.)	Rated Pressure (psig)	Rated Pressure (kPa)
Cap (P)		175	1210
Coupling (P x P)		175	1210
90 Degree Elbow (P x P)		175	1210
45 Degree Elbow (P x P)		175	1210
Tee (P x P x P)		175	1210
Reducing Tee (P x P x P)	1-1/2 x 1-1/2 x 1; 2 x 2 x 1	175	1210
Union (P x P)		175	1210
Flange Adapter (P x F)		175	1210

All model MegaPress rubber gasketed fittings are suitable for use in dry pipe systems for temperatures to -40 degree F.

P - Press

F - Flange

FNPT - Female NPT Threads

MNPT - Male NPT Threads

10 refers to Schedule 10 steel sprinkler pipe in accordance with NFPA 13.

40 refers to Schedule 40 steel sprinkler pipe in accordance with NFPA 13.

CONSTRUCTION DETAILS:

The product has been examined and found to comply with the requirements of the UL Standard for Rubber Gasketed Fittings for Fire-Protection Service, UL 213, and the Standard for Rubber Gasketed Fittings for Fire Protection Service, ULC C213, in effect as of the date of this Report.

USE:

The products covered by this Report are intended for use in accordance with the National Fire Protection Association Standard for the Installation of Sprinkler Systems, NFPA 13; Standard for the Installation of Standpipe, Private Hydrants, and Hose Systems, NFPA 14; Standard for Water Spray Fixed Systems for Fire Protection, NFPA 15; and Standard for the Installation of Private Fire Service Mains and Their Appurtenances, NFPA 24 and the manufacturer's installation instructions.

TEST RECORD NO. 1

SAMPLES:

Samples of the rubber gasketed fittings as indicated below and constructed as described herein, were submitted by the manufacturer for examination and test.

DESCRIPTION

PRODUCT COVERED:

USL, CNL

Press Fittings

MegaPress rubber gasketed fittings in the following types, sizes and rated pressures are intended for use with Schedule 10 and Schedule 40 steel sprinkler pipe and are to be installed in accordance with the manufacturer's installation instructions.

Groove Type	Size (in.)	Rated Pressure (psig)	Rated Pressure (kPa)
Cap (P)	1-1/4, 1-1/2, 2	175	1210
Coupling (P x P)	1-1/4, 1-1/2, 2	175	1210
90 Degree Elbow (P x P)	1-1/4, 1-1/2, 2	175	1210
45 Degree Elbow (P x P)	1-1/4, 1-1/2, 2	175	1210
Tee (P x P x P)	1-1/4, 1-1/2, 2	175	1210
Reducing Tee (P x P x P)	1-1/2 x 1-1/2 x 1-1/4; 2 x 2 x 1-1/4, 1-1/2	175	1210
Reducing Tee (P x P x NPT)	1 x 1 x 1/2, 3/4; 1-1/2 x 1-1/2 x 1/2, 3/4, 1, 1-1/4; 2 x 2 x 1/2, 3/4, 1, 1-1/4, 1-1/2	175	1210
Union (P x P)	1-1/4, 2	175	1210
Flange Adapter (P x F)	1-1/4, 1-1/2, 2	175	1210

Groove Type	Size (in.)	Rated Pressure (psig)	Rated Pressure (kPa)
Male Adapter (P x MNPT)	1, 1-1/4, 1-1/2, 2	175	1210
Female Adapter (P x FNPT)	1 x 1/2, 3/4, 1; 1-1/4 x 1/2, 3/4, 1, 1-1/4; 1-1/2 x 1/2, 3/4, 1, 1-1/4, 1-1/2; 2 x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2	175	1210

MegaPress rubber gasketed fittings in the following types, sizes and rated pressures are intended for use with Schedule 40 steel sprinkler pipe and are to be installed in accordance with the manufacturer's installation instructions.

Groove Type	Size (in.)	Rated Pressure (psig)	Rated Pressure (kPa)
Cap (P)	1	175	1210
Coupling (P x P)	1	175	1210
90 Degree Elbow (P x P)	1	175	1210
45 Degree Elbow (P x P)	1	175	1210
Tee (P x P x P)	1	175	1210
Reducing Tee (P x P x P)	1-1/2 x 1-1/2 x 1; 2 x 2 x 1	175	1210
Union (P x P)	1	175	1210
Flange Adapter (P x F)	1	175	1210

All model MegaPress rubber gasketed fittings are suitable for use in dry pipe systems for temperatures to -40 degree F.

P - Press

F - Flange

FNPT - Female NPT Threads

MNPT - Male NPT Threads

10 refers to Schedule 10 steel sprinkler pipe in accordance with NFPA 13.

40 refers to Schedule 40 steel sprinkler pipe in accordance with NFPA 13.

GENERAL:

Test results relate only to the items tested. The following tests were conducted.

Test Name	Standard, Section, Edition
Metallic Materials:	UL 213, Section 8, Edition 4; ULC/ORD C213, Section 2.2, Ed. 1
Leakage and Hydrostatic:	UL 213, Section 10 and 11, Edition 4; ULC/ORD C213, Section 3.4 and 3.5, Ed. 1
Bending Moment - Couplings:	UL 213, Section 12.1 & 12.2, Edition 4; ULC/ORD C213, Section 3.6.1 and 3.6.2, Ed. 1
Bending Moment - Side Outlets:	UL 213, Section 12.1 & 12.3, Edition 4; ULC/ORD C213, Section 3.6.1 and 3.6.3, Ed. 1
Low Temperature:	UL 213, Section 14, Edition 4; ULC/ORD C213, Section 3.7, Ed. 1
Vibration:	UL 852, Section 15, Ed. 1; ULC/ORD C199S, Section 3.6, Ed. 1

Tests were considered covered as follows:

Test	Standard, Section, Edition	File Reference	Report Date	Test Record No.
Elastomeric Parts	UL 213, Section 9, Edition 4; ULC/ORD C213, Section 3.3, Ed. 1	EX6157	2002-10-11	2

The following tests were not considered necessary.

Test Name		Rationale
Flexibility	UL 213, Section 13, Edition 4	Submitted couplings are not intended to be flexible.
Sprinkler Outlet Flow Characteristics	UL 213, Section 15, Edition 4; ULC/ORD C213, Section 3.9, Edition 1	Product complies with construction requirements and testing is not required.
Pipe Outlet Flow Characteristics	UL 213, Section 16, Edition 4	Not an outlet fitting.

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Standard	Title	Edition or Publication Date	Latest Revision Date
UL 213	Rubber Gasketed Fittings for Fire Protection Service	4 th	2009-10-23
ULC/ORD C213	Rubber Gasketed Fittings for Fire Protection Service	1st	1996-04-01

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

CONCLUSION

Samples of the products covered by this Report have been found to comply with the requirements covering the category and the products are found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify UL certification or that the product(s) described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the UL Listing Mark on such products which comply with UL's Follow-Up Service Procedure and any other application requirements of UL LLC. The Listing Mark of UL LLC on the product, or the UL symbol on the product and the Listing Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

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