

Rapid Adoption Project (RAP)- Training for the Installation of Viega MegaPress CuNi Fittings

Date: March 2023

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Agenda

- Mission Statement
- Project Participants
- Completion Summary
- Task Status/Updates



Mission Statement

- Get Pipe Fitters Trained So Shipyards Can Use Viega MegaPress Fittings.
 - Previous NSRP Projects funded testing of the fittings to prove compliance with ASTM F1387 as required by ship specification section 505.
 - Technical Warrant Approval Letters 9505 Ser 05Z/181 dated April 14, 2022 and 9505 Ser 05Z/177 dated May 3, 2021 approved the use of the Viega MegaPress CuNi fittings for use in many systems and US Navy ship classes.
 - Class specific specifications allow use either as a baseline requirement or via Specification Change Notice.
 - Section 505 of the Class specifications requires training before the pipe fitters can install the fittings.
 - Since this is a new application for the US Navy a training course is being developed under this NSRP project.

PROJECT PARTICIPANTS

- BIW
 - Wendy Greenbaum – Project Technical Lead
- ATI
 - Mark Smitherman
- D'Angelo Technologies, LLC
 - Maurissa D'Angelo – PTR
- Fincantieri Marinette Marine (FMM)
 - Alberto Woll – TPOC
- Supervisor of Shipbuilding, Bath
 - Joseph Leeman, Gary Morissette
- Viega USA
 - Jesus Herrero

COMPLETION SUMMARY

- Draft Course Curriculum – 100% Complete
- Mid-Project Report – 100% Complete
- Comment of Draft Curriculum – 100% Complete
- Final Curriculum – 100% Complete
- Order Material – 0% Complete
- Obtain Tooling for Class – 50% Complete
- Announce Location and Date of Class – 100% Complete
- Execute Training Class – 0% Complete
- Final Report – 0% Complete

Curriculum Content

- General Info about Viega and Press Connect Technology
- Support Services
- Navsea Approval
 - Fittings approved
 - Testing and Test Results
 - TWH Approval Letters
- Fitting Construction
- Approved Applications
- Fitting Installation and Process Requirements
- Tools
- Knowledge Checkpoints
- Warranty
- Credential Testing
- Additional Content

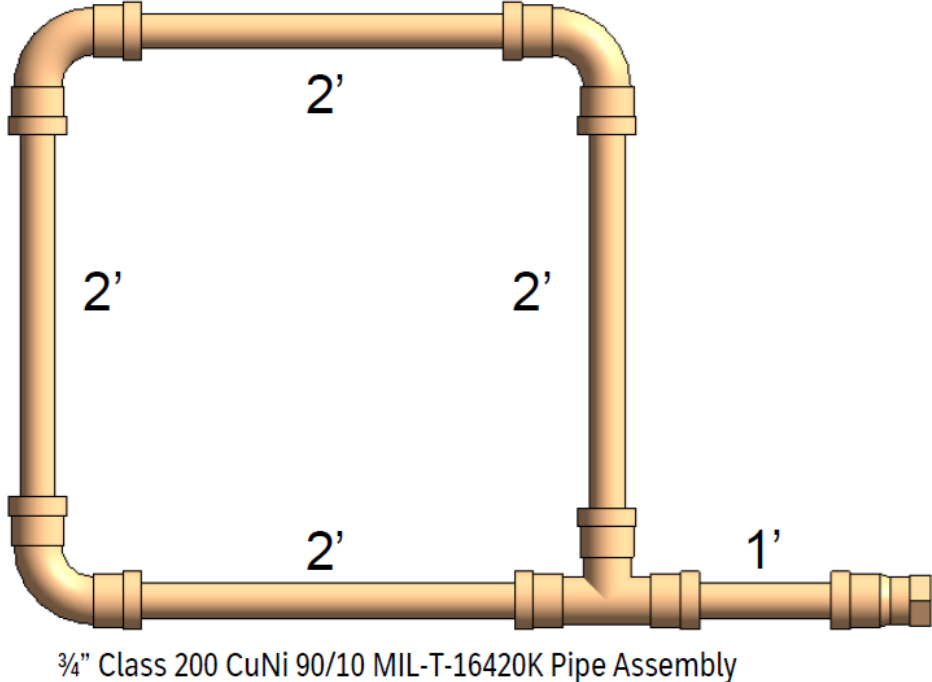
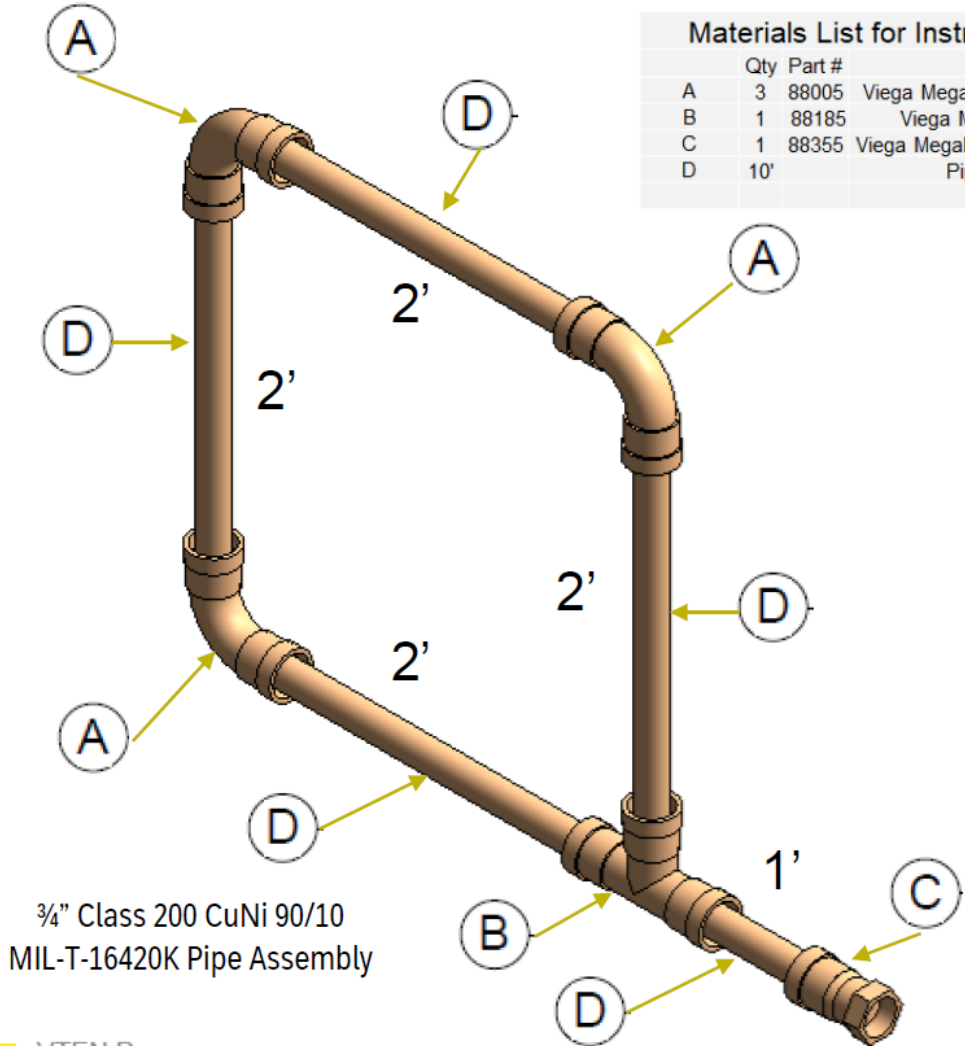
Curriculum Content – Pipe Spools

Materials List for Instructor Led Hands-On Training

	Qty	Part #	Description
A	3	88005	Viega MegaPress CuNi 90° elbow
B	1	88185	Viega MegaPress CuNi tee
C	1	88355	Viega MegaPress CuNi male adapter
D	10'		Pipe, CuNi 90/10

**Installation Skills
Deflection Test Assembly**

*Please Note: Viega (VTEN program) will supply necessary Fittings (except couplings), Tooling and Equipment for construction of the knowledge checkpoint MegaPress CuNi Spools



VTEN Program



Curriculum Content – Pipe Spools

Installation Skills Test Assembly

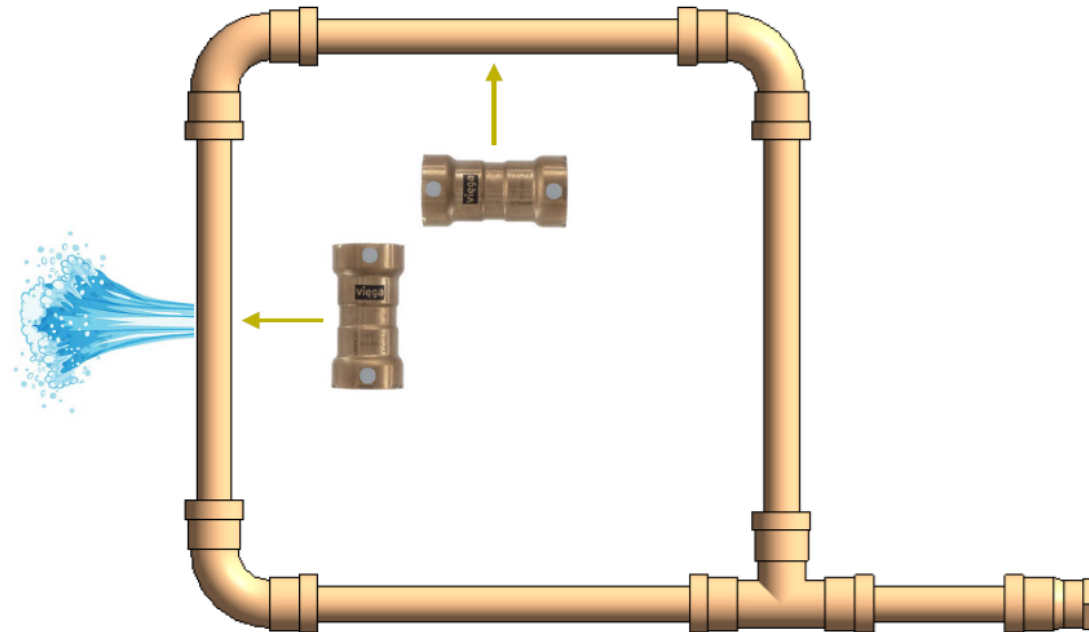
Cut & Repair Piping Assembly

- Cutting into piping assembly to make repairs for a “pipe leak”.
- Make repair using Approved MegaPress CuNi ¾” Coupling with stop.
- Part # 88385



Stock Image for Scenario Simulation Purpose Only

*Please Note: Viega (VTEN program) will supply necessary Fittings (except couplings), Tooling and Equipment for construction of the knowledge checkpoint MegaPress CuNi Spools



¾” Class 200 CuNi 90/10 MIL-T-16420K Pipe Assembly

■ VTEN Program



Curriculum Content – Pipe Spools

Destructive Test Assembly

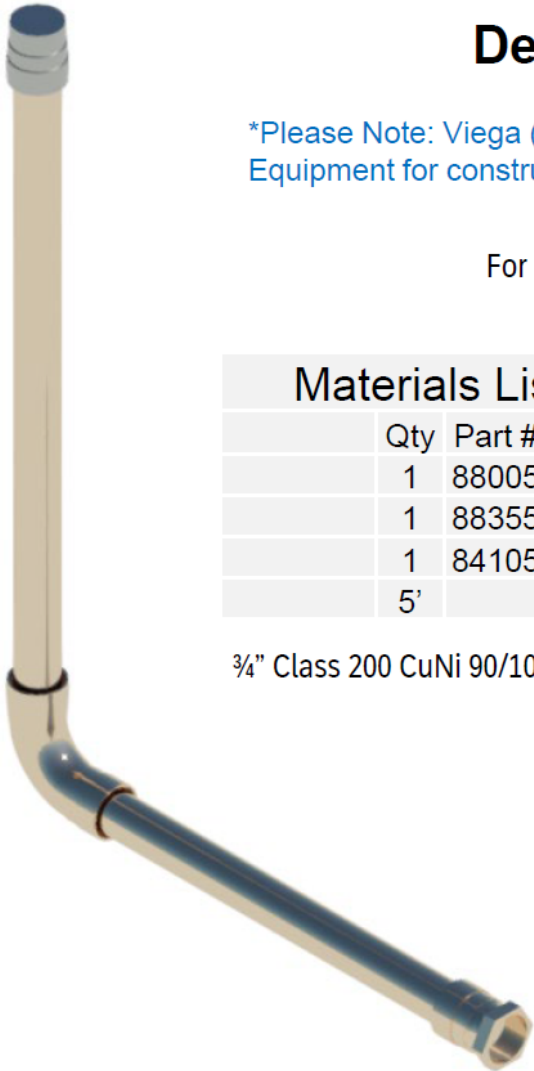
*Please Note: Viega (VTEN program) will supply necessary Fittings, Tooling and Equipment for construction of the knowledge checkpoint MegaPress CuNi Spools

For use in installations of Class 200 CuNi 90/10 pipe

Materials List for Instructor Led Hands-On Training

Qty	Part #	Description
1	88005	Viega MegaPress CuNi 90° elbow
1	88355	Viega MegaPress CuNi male adapter
1	84105	Viega MegaPress Carbon cap
5'		Pipe, CuNi 90/10

3/4" Class 200 CuNi 90/10 MIL-T-16420K Pipe Assembly



Curriculum Content – Pipe Spools

Hands-On Training

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Instructor Led Install Demo's & Live Destruction Testing



Install

Pressurize

Bend



VTEN Program

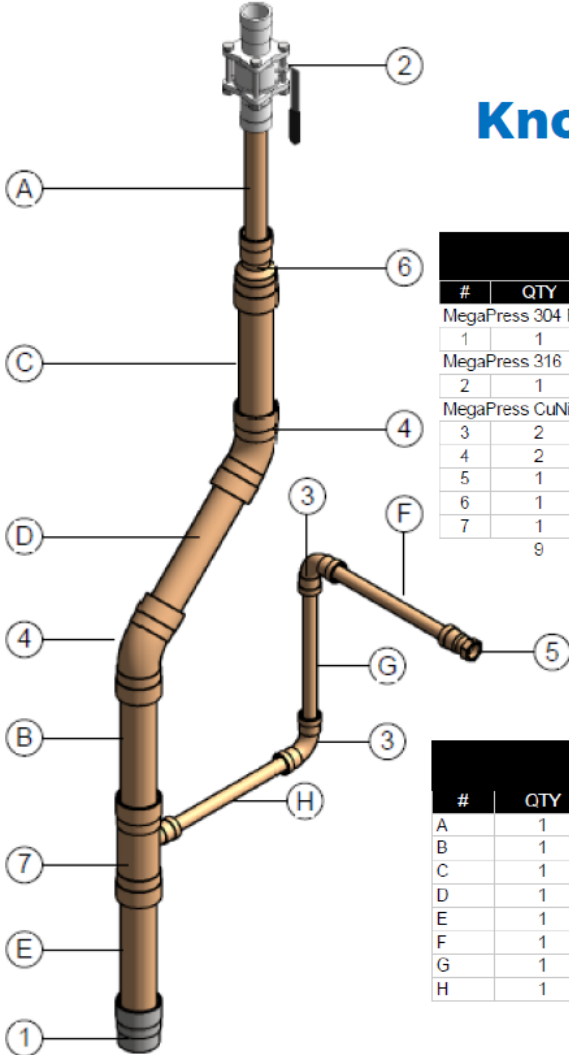


Curriculum Content – Pipe Spools

Title:
NSRP Pilot Training

Project:
Building Assemblies

Knowledge Checkpoint



VIEGA - BILL OF MATERIALS (By Series)								
#	QTY	SERIES	DESCRIPTION	SIZE	ANGLE	MODEL	ENDTYPE	PN#
MegaPress 304 FKM								
1	1	MegaPress 304 FKM	Cap	2"		4156	P	95410
MegaPress 316								
2	1	MegaPress 316	Ball Valve	1 1/4"x1 1/4"		5175.8	P x P	86545
MegaPress CuNi								
3	2	MegaPress CuNi	Elbow	3/4"x3/4"	90.00°	0516-0526	P x P	88005
4	2	MegaPress CuNi	Elbow	2"x2"	45.00°	0516-0526	P x P	88115
5	1	MegaPress CuNi	Female Adapter	3/4"x3/4"		0512	P x FPT	88355
6	1	MegaPress CuNi	Reducer	2"x1 1/4"		0515.2	P x P	88505
7	1	MegaPress CuNi	Tee	2"x2"x3/4"		0518	P x P x P	88240

*Please Note: NSRP Training Attendees will supply

VIEGA - PIPE SCHEDULE (Itemized)						
#	QTY	SERIES	DESCRIPTION	SIZE	LENGTH	
A	1	MegaPress CuNi	Pipe, CuNi CL200 90/10	1 1/4"	1' - 0"	
B	1	MegaPress CuNi	Pipe, CuNi CL200 90/10	2"	1' - 0"	
C	1	MegaPress CuNi	Pipe, CuNi CL200 90/10	2"	1' - 0"	
D	1	MegaPress CuNi	Pipe, CuNi CL200 90/10	2"	1' - 0"	
E	1	MegaPress CuNi	Pipe, CuNi CL200 90/10	2"	1' - 0"	
F	1	MegaPress CuNi	Pipe, CuNi CL200 90/10	3/4"	1' - 0"	
G	1	MegaPress CuNi	Pipe, CuNi CL200 90/10	3/4"	1' - 0"	
H	1	MegaPress CuNi	Pipe, CuNi CL200 90/10	3/4"	1' - 0"	

*Please Note: Viega (VTEN program) will supply

VTEN Program

