

# Implementation of Viega MegaPress CuNi Fittings at BIW

Date: August 2025

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# Agenda

- History
- New and Recent Initiatives





# History of the Use of Viega MegaPress at BIW

- SCN (Ship Specification Change Notice)-02640 & CACN (Contract Authorization Change Notice)-0541
  - These two change authorities were created as the Navy's Response to BIW Change Request 02363
    - This change request was written to update the DDG 51 Class requirements for MAFs to include press connect.
  - BIW wrote this change request before the first Navsea Approval Letter for MegaPress existed.
  - The SCN and CACN were for drains and couplings only.
  - These were to update DDG 51 Class ship spec. section 505 and PPD 5959353.
    - The PPD is a DDG 51 Class version of Mil-STD-777
  - These changes were authorized in September 2021



# History of the Use of Viega MegaPress at BIW

- Navsea Approval Letters for MegaPress
  - Ser 05Z/177 May 3, 2021 – approves the use of Viega MegPress couplings for many systems.
  - Ser 05Z/181 April 14, 2022 – Adds Elbows, Tees and Reducers to the approval letter.
- NSRP RAP project complete
  - This project provided training for pipe shop trainers for the installation of MegaPress fittings.
    - Ship Spec Section 505 requires pipe fitters to be trained on proper installation of MAFs.
    - Training was done in May 2023



# History of the Use of Viega MegaPress at BIW

- SCN-02721 and CACN-0574 created as a result of BIW CR 02469
  - Approved March 2024
  - Expanded BIW's usage on DDG 51 Class ships to all shapes and systems allowed by the Navsea Approval Letters
  - BIW updated the BIW piping material selection guide as a result of the approval of the SCN and CACN.
    - Material selection guide, included a note that MegaPress was to be used for repairs only. Our approach was, walk before you run.
      - Press connect is particularly helpful for trials and any repairs required during trials.
  - We are now ready to increase usage due to positive outcomes with product



## New and Recent Initiatives at BIW

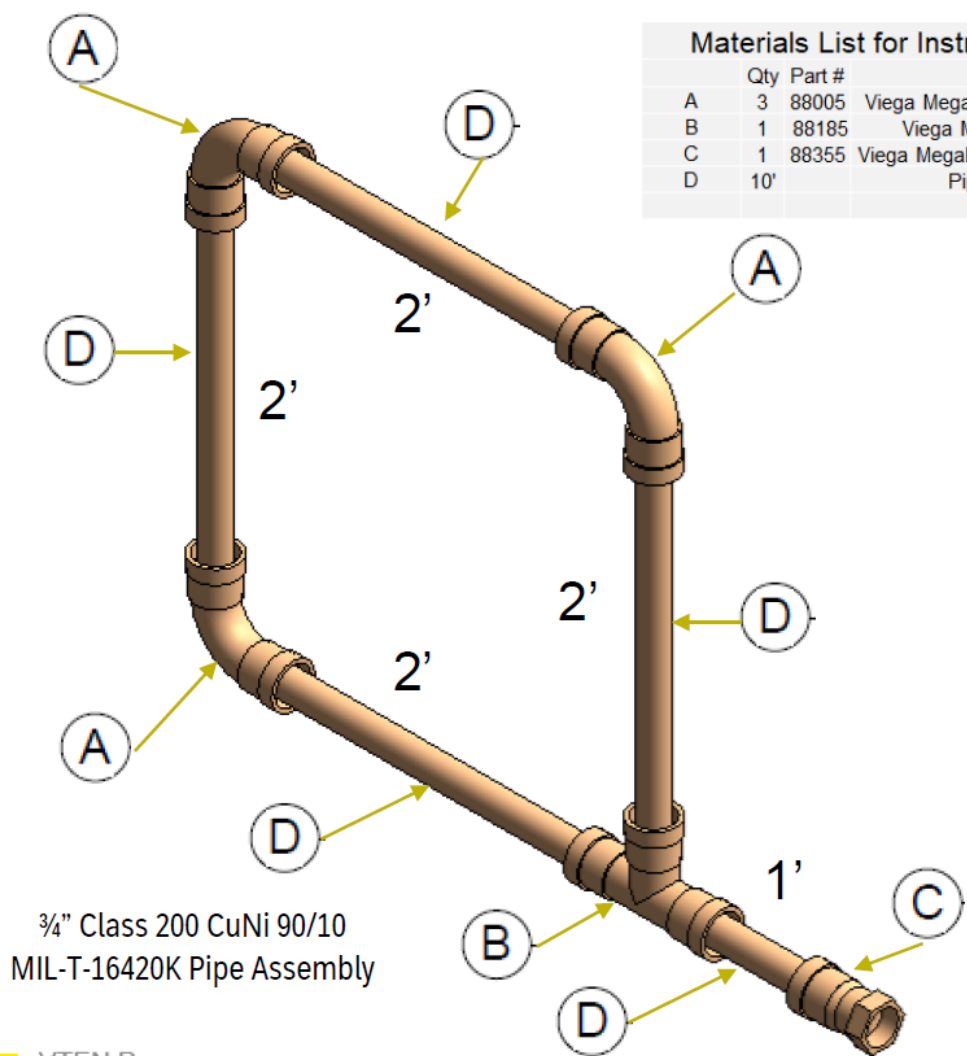
- MegaPress fittings with EDPM o-rings, required by Navsea Approval Letter for drain systems, just became available in May 2025.
- Training for Liaison Designers happened in July 2025.
- Working on funding to implement in class design vice just repairs.
  - The biggest impediment to implementation in class is the development of library parts.



# Back-up Slides



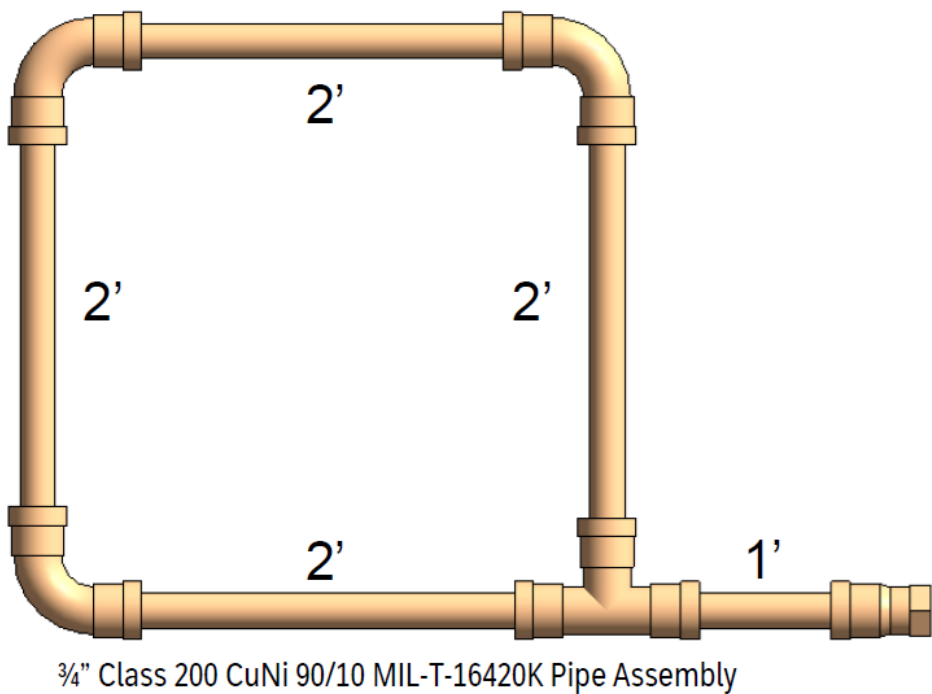
# Curriculum Content – Pipe Spools



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





# Curriculum Content – Pipe Spools

## Installation Skills Test Assembly

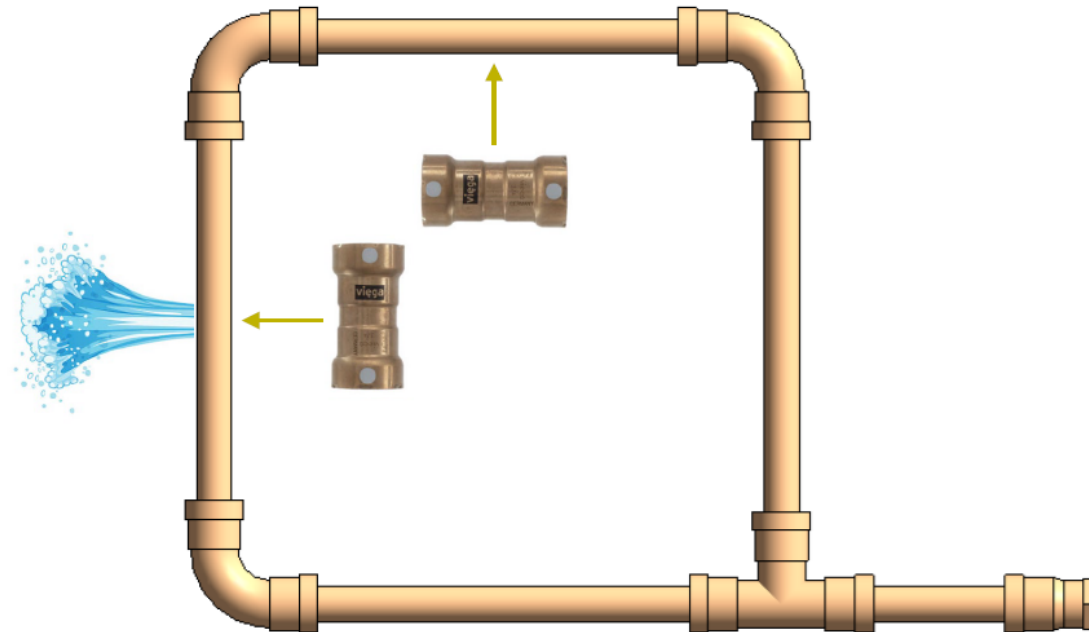
### Cut & Repair Piping Assembly

- Cutting into piping assembly to make repairs for a “pipe leak”.
- Make repair using Approved MegaPress CuNi  $\frac{3}{4}$ ” Coupling with stop.
- Part # 88385



■ VTEN Program

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



$\frac{3}{4}$ ” Class 200 CuNi 90/10 MIL-T-16420K Pipe Assembly





# Curriculum Content – Pipe Spools

## Destructive Test Assembly

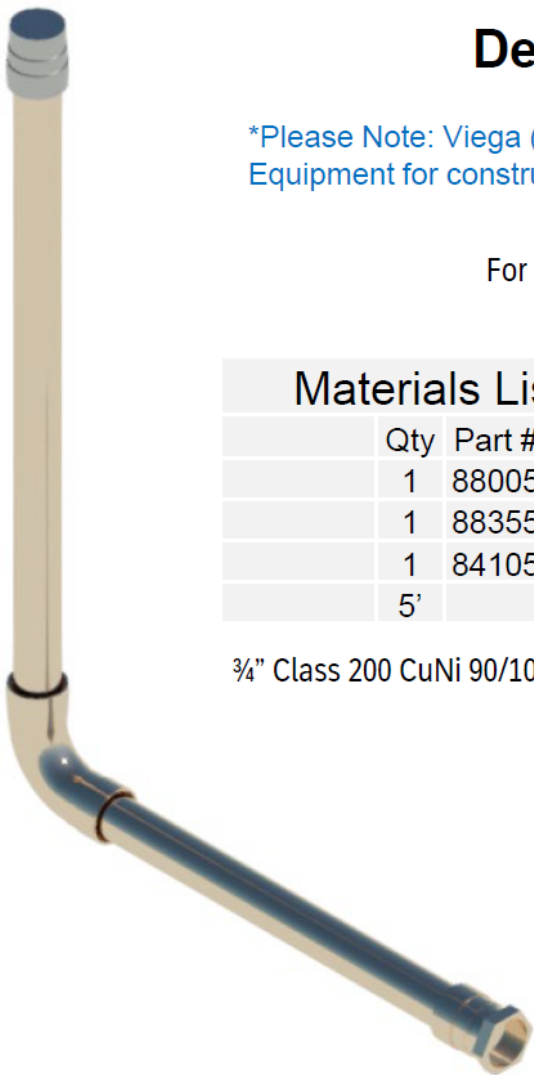
\*Please Note: Viega (VTEN program) will supply necessary Fittings, Tooling and Equipment for construction of the knowledge checkpoint MegaPress CuNi Spools

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

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

### Instructor Led Install Demo's & Live Destruction Testing



Install  
Pressurize  
Bend



VTEN Program



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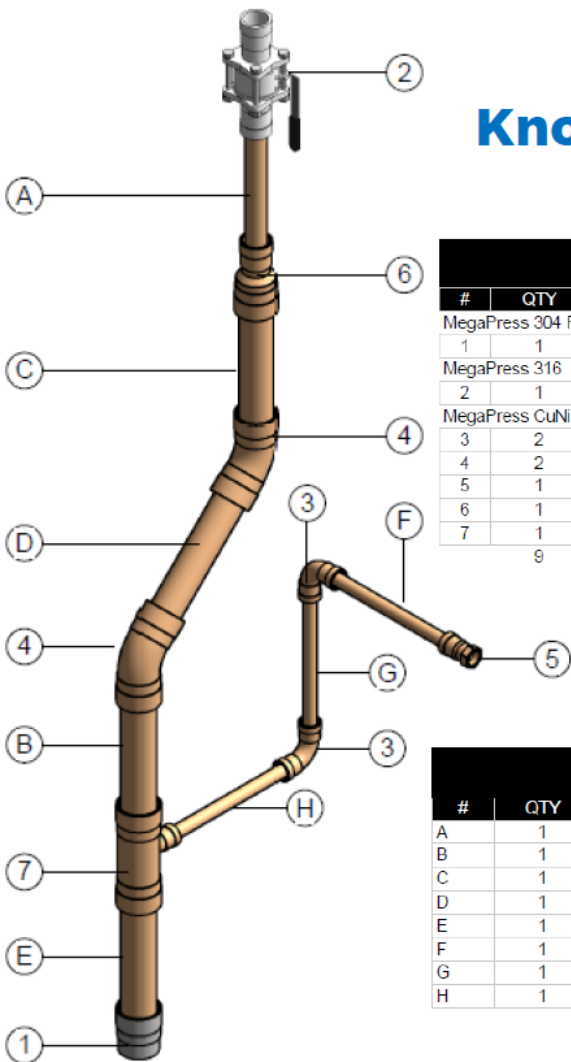


# Curriculum Content – Pipe Spools

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

