

STANDARD PHRASEOLOGY

SECTION G

1. This section of standard phraseology is for general use in piping disciplines.

Hydrostatically test \_\_\_, using \_\_\_ at \_\_\_ PSIG for a minimum of \_\_\_ minutes. Allowable leakage: None.

G1

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NOTE: USE ASTM F993, OR 810-5596087, SUPSHIP PORTSMOUTH STANDARD DRAWING VALVE LOCKING DEVICE (FOR CABLE LOCKING DEVICES, BUTTERFLY VALVES, AND LOCKED POSITION INDICATORS).

Install new locking devices on each valve listed in \_\_\_ in accordance with 2. \_\_.

G2

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NOTE: USE IN REPAIR OR SHIPALT WORK ITEMS FOR CLEANING NEW AND MODIFIED LEVEL II (AS DEFINED IN GSO SECTION 505j2) PIPING SYSTEMS WHICH DO NOT REQUIRE SPECIAL CLEANING REQUIREMENTS. REFER TO NOTE 1 IN GSO SECTION 505K2 FOR SYSTEMS REQUIRING SPECIAL CLEANING REQUIREMENTS.

Isolate components subject to damage and clean the new and modified \_\_\_ piping system to a cleanliness level that results in the internal surfaces being visually free of grease, oil, flux, scale, dirt, loose particles, and any other contamination foreign to the base metal. Tap water residues on metals and light superficial rust on carbon steel surfaces, caused by a short time exposure to the atmosphere, are permitted. Light dust on cleaned surfaces is not objectionable, provided that the quantity and size of the particle does not adversely affect system operation.

G3a

NOTE: USE FOR CLEANING NEW AND MODIFIED LEVEL III PIPING SYSTEMS.

Isolate components subject to damage and clean the new and modified \_\_\_ piping system to a cleanliness level that results in the internal system surfaces being cleaned free of contamination and any remaining residue on the surface does not interfere with the operation of or damage system components.

G3b

Restore piping flange mating surfaces exposed by disassembly of piping system. Repair by removing high spots, burrs, abrasions, and foreign matter, where removal can be accomplished by hand tools. Take precautions to maintain phonographic finish on flanges that have it.

G4

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The copper-nickel piping shall be MIL-T-16420, Type \_\_\_, Class \_\_\_, \_\_\_-inch wall thickness.

G5a

The carbon steel piping shall be MIL-P-24691.

G5b

The copper piping shall be MIL-T-24107, \_\_\_-inch wall thickness.

G5c

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Purge, evacuate, and dehydrate \_\_\_ in accordance with 2.\_\_\_. Charge with refrigerant \_\_\_ in accordance with 2.\_\_\_.

G6

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NOTE:    FOR USE WITH 810-4714432 REV J, FOR PIPING HANGERS.

NNSY Standard Drawing, Std Pipe Hangers Fabrication Dets & Instl Instr  
(Non-Nuc Constr)

G7

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Empty and clean \_\_\_, including piping associated with this Work Item.

G8

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Align the piping to each \_\_\_. Piping shall be supported independently and shall not impose a strain.

G9a

Align the piping to each \_\_\_. Piping shall be supported independently and shall not impose a strain on the equipment.

G9b

NOTE:    FOR REFERENCE USE 804-1385781, HANGERS, PIPE, FOR  
SURFACE SHIPS.

Install new hangers on new piping in accordance with 2.\_\_.

G10a

Install new hangers to support the piping and prevent vibration in  
accordance with 2.\_\_.

G10b

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Accomplish a static head pressure test of \_\_\_\_ for \_\_\_\_ minutes. Allowable  
leakage: None.

G11

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Accomplish tests in accordance with General Notes \_\_\_\_ of 2.\_\_.

G12

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MIL-STD-777, Schedule of Piping, Valves, Fittings, and Associated Piping  
components for Naval Surface Ships

G14a

802-5959353, MIL-STD-777D Modified for DDG-51 Class, Schedule of Piping,  
Valves, fittings, and Associated Piping Components

G14b

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NOTE:    FOR REFERENCE USE MIL-STD-777, SCHEDULE OF PIPING,  
VALVES, FITTINGS, AND ASSOCIATED PIPING COMPONENTS FOR  
NAVAL SURFACE SHIPS.

New materials shall conform to 2.\_\_, including Category and Group \_\_\_\_.

G15

NOTE: ALLOWS PLANNER USE OF OTHER NAVSEA-APPROVED GASKETS AND FASTENERS NOT COVERED IN MIL-STD-777.

FOR BUTTERFLY VALVES INSTALLED IN **FIREMAIN AND** SALTWATER SYSTEMS, USE GASKET MATERIAL CONFORMING TO MIL-DTL-24696, **TYPE II** (FOR DDG-51 CLASS ONLY).

Install each valve, installing new gaskets conforming to \_\_\_\_ and new fasteners conforming to \_\_\_\_.

G16

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NOTE: FOR REFERENCE USE MIL-STD-777, SCHEDULE OF PIPING, VALVES, FITTINGS, AND ASSOCIATED PIPING COMPONENTS FOR NAVAL SURFACE SHIPS.

Install each valve, installing new gaskets and fasteners conforming to 2.\_\_\_\_, including Category and Group \_\_\_\_.

G17

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Accomplish an operational test of the new and disturbed piping at \_\_\_\_ PSIG. Allowable external leakage: None.

G22

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Accomplish an operational test of each newly installed valve at \_\_\_\_ PSIG.

G23a

Cycle each valve from full closed to full open to full closed 4 times. Allowable external leakage: None.

G23b

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NOTE: FOR REFERENCE USE S9086-RK-STM-010/CH-505, PIPING SYSTEMS.

Measure and record alignment of expansion joint piping flanges in accordance with Paragraphs 505-3.3.1 through 3.3.6.5 of 2.\_\_\_\_.

G24a

NOTE: WHEN NO HARD COPY IS REQUIRED, THE WORDS "HARD COPY OR" SHALL BE DELETED.

Submit one legible copy, in hard copy or approved transferrable media, of a report listing measurements taken to the SUPERVISOR.

G24b

Nitrogen pressure test each brazed and mechanical joint at \_\_\_\_ PSIG for a minimum of 15 minutes.

G25a

Inspect each brazed and mechanical joint, using a soap bubble method.  
Allowable leakage: None.

G25b

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Machine each seat and disc to remove hardfacing.

G26a

Weld build-up each seat and disc.

G26b

Accomplish the requirements of 009-12 of 2.1, including Table One, Column C, Lines One through 9.

G26c

Machine each seat and disc to \_\_\_\_.

G26d

Accomplish nondestructive testing in accordance with Line \_\_\_\_.

G26e

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Machine each seal ring seating area to remove stainless steel inlay.

G27a

Weld build-up each seal ring seating area.

G27b

Accomplish the requirements of 009-12 of 2.1, including Table One, Column H, Lines One through 9.

G27c

Machine each seal ring seating area to \_\_\_\_.

G27d

Accomplish nondestructive testing in accordance with Line \_\_\_\_.

G27e

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NOTE:    FOR REFERENCE USE MIL-STD-777, SCHEDULE OF PIPING,  
              VALVES, FITTINGS, AND ASSOCIATED PIPING COMPONENTS FOR  
              NAVAL SURFACE SHIPS.

Install new \_\_\_\_ valves in place of those removed in 3.\_\_\_\_. New materials shall conform to 2.\_\_\_\_, including Category and Group \_\_\_\_.

G28a

Shop test and set each relief valve prior to installation.

G28b

Test medium shall be \_\_\_\_.

G28c

Seat tightness shall be \_\_\_\_.

G28d

Lifting pressure shall be \_\_\_\_.

G28e

After setting each relief valve, install wire and leadlock seals and attach a metal tag to each valve stamped with the following information:

Ship name and hull number

Valve number or identification

Date valve tested and set

Name of repair facility

G28f

NOTE:    FOR USE IN CLEANING OF NEW HYDRAULIC PIPING  
FABRICATIONS. ENSURE WORK ITEM INCLUDES POST  
FABRICATION HYDROSTATIC TESTING REQUIREMENTS IN SUPPORT  
OF THE STANDARD AS WELL AS NSTM 505. PLANNER TO  
SPECIFY FLUID USED FOR HYDROSTATIC TESTING.

Clean, pickle, and protect new hydraulic piping in accordance with MIL-STD-419.

G29