

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

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 **each** locking device on each valve listed in _____ in accordance with 2.____.

G2

Restore each piping flange mating surface exposed by disassembly of piping system. Repair by removing **each** high spot, burr, abrasion, and foreign matter, where removal can be accomplished by a hand tool. Maintain phonographic finish on **each** flange that **has** it.

G4

Ensure the copper-nickel piping is MIL-T-16420, Type _____, Class _____, _____-inch wall thickness.

G5a

Ensure the carbon steel piping is MIL-P-24691.

G5b

Ensure the copper piping is MIL-T-24107, _____-inch wall thickness.

G5c

Purge, evacuate, and dehydrate _____ in accordance with 2.____. Charge with refrigerant _____ in accordance with 2.____.

G6

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

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

G7

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

G8

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 each new hanger on new piping in accordance with 2.____.

G10a

Install each new hanger to support the piping and prevent vibration in accordance with 2.____.

G10b

Accomplish each test in accordance with General Notes _____ of 2.____.

G12

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

NOTE: FOR REFERENCE USE MIL-STD-777, SCHEDULE OF PIPING, VALVES, FITTINGS, AND ASSOCIATED PIPING COMPONENTS (G14a).

FOR REFERENCE USE 802-5959353, MIL-STD-777D MODIFIED FOR DDG-51 CLASS, SCHEDULE OF PIPING, VALVES, FITTINGS, AND ASSOCIATED PIPING COMPONENTS (G14b).

Ensure **each** new material 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 **each** gasket conforming to _____ and new **each** fastener conforming to _____.

G16

NOTE: FOR REFERENCE USE MIL-STD-777, SCHEDULE OF PIPING, VALVES, FITTINGS, AND ASSOCIATED PIPING COMPONENTS FOR NAVAL SURFACE SHIPS (G14a).

FOR REFERENCE USE 802-5959353, MIL-STD-777D MODIFIED FOR DDG-51 CLASS, SCHEDULE OF PIPING, VALVES, FITTINGS, AND ASSOCIATED PIPING COMPONENTS (G14b).

Install each valve, installing new **each** gasket and fastener conforming to 2.____, including Category and Group _____.

G17

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

G22

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

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

Measure and record alignment of each expansion joint piping flange in accordance with Paragraphs 505-3.3.1 through 3.3.6.5 of 2.____.

G24a

Submit one legible copy, in hard copy or approved transferrable media, of a report listing **each** measurement 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

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

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

NOTE: FOR REFERENCE USE MIL-STD-777, SCHEDULE OF PIPING, VALVES, FITTINGS, AND ASSOCIATED PIPING COMPONENTS FOR NAVAL SURFACE SHIPS (G14a).

FOR REFERENCE USE 802-5959353, MIL-STD-777D MODIFIED FOR DDG-51 CLASS, SCHEDULE OF PIPING, VALVES, FITTINGS, AND ASSOCIATED PIPING COMPONENTS (G14b).

Install new **each** ____ valve in place of those removed in 3.__. **Each** new material shall conform to 2.__, including Category and Group ____.

G28a

Shop test and set each relief valve prior to installation.

G28b

Ensure the test medium is _____.

G28c

Ensure seat tightness is _____.

G28d

Ensure lifting pressure is _____.

G28e

Install **each** wire and leadlock seals and attach a metal tag to each valve stamped with the following information after setting each relief valve:

Ship name and hull number
Valve number or identification
Date valve tested and set
Name of repair facility

G28f