

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 F933, 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 505K2) 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 \_\_\_\_ 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 \_\_\_\_ 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 or ASTM A106, Grade A or B, Schedule \_\_\_\_.

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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G7           PHRASE DELETED

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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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G13 PHRASE DELETED

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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-777 Modified for DDG-51 Class, Schedule of Piping, Valves, Fittings, and Associated Piping Components for Naval Surface Ships

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

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

G16

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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G18        PHRASE DELETED

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G19        PHRASE DELETED

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G20        PHRASE DELETED

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G21        PHRASE RENUMBERED G10b

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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 on each newly installed valve at \_\_\_\_ PSIG.

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

G23

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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.\_\_\_\_.

      Submit four legible copies of a report listing measurements taken to the SUPERVISOR.

G24

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

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

G25a

G25b PHRASE DELETED

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Machine each seat and disc to remove hardfacing.

Weld build-up each seat and disc.

Accomplish the requirements of 009-12 of 2.a, including Table One, Column C, Lines One through 9.

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

Accomplish nondestructive testing in accordance with Line 12.

G26

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

Weld build-up each seal ring seating area.

Accomplish the requirements of 009-12 of 2.a, including Table One, Column H, Lines One through 9.

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

Accomplish nondestructive testing in accordance with Line 12.

G27

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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.

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

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

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

G28b

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.

Valve lifting pressure.

Date valve tested and set.

Name of repair facility.

G28c