

INCH-POUND

MIL-T-960E(SH)
AMENDMENT 3
30 October 1991SUPERSEDING
AMENDMENT 2
14 September 1981**MILITARY SPECIFICATION****TRAPS, STEAM, INTERMITTENT DISCHARGE AND CONTINUOUS
FLOW, NAVAL SHIPBOARD**

This amendment forms a part of MIL-T-960E(SHIPS), dated 21 June 1963, and is approved for use by Naval Sea Systems Command, Department of the Navy and is available for use by all departments and agencies of the Department of Defense.

PAGE 1

2.1, SPECIFICATIONS, MILITARY: Delete reference to: "MIL-D-963" and substitute "MIL-T-3100 - Technical Data Packages, General Specification For" and delete reference to "MIL-S-2953".

* 2.1, SPECIFICATIONS, MILITARY: Delete "MIL-G-21032 - Gaskets, Metallic-Asbestos, Spiral Wound (for ASA Commercial Flanged Joints in Piping Systems) (Identification Symbol 2410)" and substitute "MIL-G-24716 - Gaskets, Metallic-Flexible Graphite, Spiral Wound."

PAGE 2

3.1, delete and substitute:

"3.1 Qualification. Steam traps (type I and II) furnished under this specification shall be products which are qualified for listing on the applicable qualified products list at time set for opening of bids (see 4.2 and 6.2)."

3.2, line 2: Delete "as approved" and substitute "and shall be reviewed"; line 2, delete "Bureau of Ships" and substitute "Naval Sea Systems Command (NAVSEA)".

AMSC N/A

FSC 4730

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PAGE 3

* TABLE I, delete and substitute:

TABLE I. Materials of steam traps.

Parts	Series 100		Series 150		Series 300		Series 400		Series 600 and 1500	
	Material	Applicable documents	Material	Applicable documents	Material	Applicable documents	Material	Applicable documents	Material	Applicable documents
Bodies, ⁴ bonnets	Bronze	ASTM B-61 B-143-2A	Steel	ASTM A-105, grade II, A-216, grade WCB	Steel	ASTM A-105, grade II, A-216, grade WCB	Steel	ASTM A-105, grade II, A-216, grade WCB	Cr-Moly alloy ³ steel	ASTM A-182 F11 or F22 ASTM A-217 WC6 or WC9
Valves, valve seats orifices ¹ (see 3.2.1)	Ni-Cu alloy Cres	QQ-N-281 ASTM A-276	Hard facing on body Cres	MIL-R-17131 ASTM A-276, type 410	Hard facing on body Cres	MIL-R-17131 ASTM A-276, type 410	Hard facing on body Cres	MIL-R-17131 ASTM A-276, type 410	Hard facing on body Cres	MIL-R-17131 ASTM A-276, type 410
Bonnet gasket ²	Sheet	Commercial	Spiral- wound	Commercial MIL-G-24716	Spiral- wound Soft steel	MIL-G-24716 80 Brinell maximum	Spiral- wound Soft steel	MIL-G-24716 80 Brinell maximum	Spiral- wound Monel	MIL-G-24716
Bonnet and body Bolts, nuts	Steel	MIL-B-857, type II	Steel	MIL-B-857, type II	Steel	MIL-S-1222, symbol B7 symbol H symbol 4	Steel	MIL-S-1222, symbol B7 symbol H symbol 4	Alloy steel	MIL-S-1222, symbol B16 symbol 4
Strainer element	Ni-Cu alloy	QQ-N-281 QQ-S-763 or QQ-S-766	Cres	QQ-S-736 or QQ-S-766	Cres	QQ-S-736 or QQ-S-766	Cres	QQ-S-736 or QQ-S-766	Cres	QQ-S-763 or QQ-S-766

¹Other materials which have demonstrated their suitability will be approved by the command or agency concerned.
²Reference to MIL-S-24716 is for construction and materials. Dimensions shall be made to suit joint. Commercial equivalent gaskets may be used.
³ASTM A 276 type 410 may be used with flanged end only.
⁴Body and bonnet materials listed for series 600 and 1500 may be used in flanged applications of series 150, 300, and 400."

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PAGES 5 and 6

3.3.4, first sentence: Delete.

Table IV, delete and substitute:

**"TABLE IV. Minimum requirements for continuous discharge capacities of
1/2 inch traps at specified temperature depressions with
constant back pressure of 30 lb/in.**

Traps series	Inlet pressure	Minimum capacity pounds per hour		
		10 °F depression	20 °F depression	30 °F depression
Type I				
100	100	800	900	1000
150	150	800	900	1000
Type II				
150	150	1000	1100	1300
300	300	1000	1100	1300
400	400	1000	1100	1300
600	600	1000	1100	1300
1500	1400	2000	2500	3000

3.8.1.1, delete and substitute:

"3.8.1.1 Series. Type I traps may be furnished in series 100 and 150 only."

3.8.2, delete and substitute:

"3.8.2 Type II. Type II traps may be furnished in all series except 100."

Add as paragraph 3.8.3:

"3.8.3 Type III. Type III traps may be furnished in all series."

3.9, delete and substitute:

"3.9 Drawings. Drawings shall be furnished in accordance with MIL-T-31000."