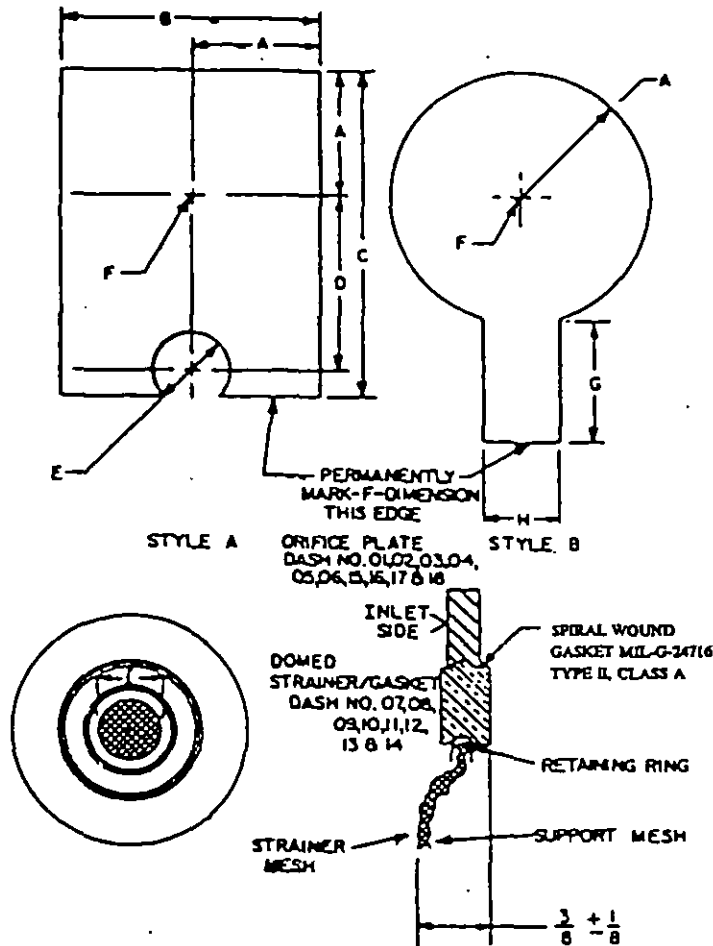


FED. SUP CLASS

4730



(B) Denotes changes  
(Project 4730-N081)

AMSC N/A

DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited.

APPROVED 7 July 1972 REVISED (A) 1 October 1974 (B) 28 February 1992

P. A. SH Other Code (B)	INTERNATIONAL INTEREST	TITLE  HIGH PRESSURE DRAIN ORIFICE PLATES AND STRAINERS	MILITARY STANDARD  MS18301(SH) (B)
PROCUREMENT SPECIFICATION NONE	SUPERSEDES	SHEET 1 OF 3	

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DASH NO.	SERIES	IPS	A ± 1/64	B ± 1/64	C ± 1/32	D ± 1/64	E ± 1/64	F ± .001	G ± 1/64	H ± 1/64	I MI.
01	1500	1/2	1- 1/4	2-1/2	2-15/16	1- 5/8	7/8	0.020	1- 1/8	3/4	
02	1500	3/4	1- 3/8	2-3/4	3- 3/16	1- 3/4	7/8	0.020	1- 3/16	3/4	
03	600	1/2	1- 1/16	2-1/8	2- 7/16	1-5/16	5/8	0.031	13/16	3/4	
04	600	3/4	1- 5/16	2-5/8	3	1- 5/8	3/4	0.031	1	3/4	
05	150	1/2	15/16	1-7/8	2- 3/16	1-3/16	5/8	0.031	13/16	3/4	
06	150	3/4	1- 1/8	2-1/4	2- 9/16	1- 3/8	5/8	0.031	13/16	3/4	
07	1500	1/2									1/2
08	1500	3/4									3/4
09	600	1/2									1/2
10	600	3/4									3/4
11	150	1/2									1/2
12	150	3/4									3/4
13	1500	1									1
14	600	1									1
15	1500	1/2	1- 1/4	2-1/2	2-15/16	1- 5/8	7/8	0.036	1- 1/8	3/4	
16	1500	3/4	1- 3/8	2-3/4	3- 3/16	1- 3/4	7/8	0.036	1- 3/16	3/4	
17	1500	1	1- 9/16	3-1/8	3- 5/8	2	1	0.020	1- 3/8	3/4	
18	600	1	1- 7/16	2-7/8	3- 1/4	1- 3/4	3/4	0.031	1	3/4	

## NOTES:

- Orifice plate shall be constructed of 1/4 inch thick, type 304 corrosion-resistant steel plate. Surface finish in gasket contact area shall not exceed 500 roughness height rating (R.H.R.).
- Orifice plates, dash numbers 01, 02, 03, 04, 05, 06, 15, 16, 17, and 18 may be constructed in either style A or style B at manufacturer's option.

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PROCUREMENT SPECIFICATION NONE	SUPERSEDES	SHEET 2 OF 3	

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3. Orifice plate material shall be certified. Mill certification of materials will be accepted in lieu of performing chemical and physical tests.
4. Domed strainer/gasket dash numbers 07, 08, 09, 10, 11, 12, 13, and 14:
  - (a) Strainer portion of strainer/gasket assembly shall be constructed of type 18-8 corrosion-resisting steel alloy.
    - (1) Strainer mesh shall be 60X60 mesh with 0.0075 inch diameter wire.
    - (2) Support mesh shall be 16X16 mesh with 0.018 inch diameter wire.
    - (3) Retaining ring shall be crimped to hold strainer and support mesh together.
  - (b) Strainer shall be positively retained as an integral part of a spiral wound gasket in accordance with MIL-G-24716, type II, class A; series (as specified by dash number).
    - (1) Gasket compression characteristics shall not be affected by the strainer.
    - (2) Metal outer ring shall be permanently marked "inlet" on the strainer mesh side.
5. Pieces detailed on this military standard are designed for use in conjunction with gaskets specified as MIL-G-24716, type II, class A and flanges specified in ANSI B16.5.
6. Break sharp edges.
7. All dimensions are in inches.
8. Dimension F shall be inspected in accordance with the requirements of MIL-STD-105, level I with an Acceptance Quality Level (AQL) of 1.0 percent.
9. For design feature purposes, this standard takes precedence over procurement documents referenced herein.
10. Referenced documents shall be of the issue in effect on date of invitation for bid.

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PROCUREMENT SPECIFICATION NONE	SUPERSEDED	SHEET 3 OF 3	

This military standard is approved for use by the Naval Sea Systems Command, Department of the Navy and is available for use by all Departments and Agencies of the Department of Defense.