



DEFENSE LOGISTICS AGENCY
WEAPONS SUPPORT
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October 1, 2026

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Draft of: MIL-DTL-17813/4 AMD 1
Project Number: 4730-2026-076

The initial draft of this document is now available for viewing and downloading from the DLA Weapons Support (Columbus) -VA website:

<https://weaponssupportapps.dla.mil/programs/milspec/default.aspx>

Major reason for this amendment: add a description to the PIN example provided. other changes are minor per MIL-DTL-961.

Concurrence or comments are required at this office within 30 days from the date of this letter. Comments received after this period will be retained for consideration during the next coordination cycle of this document. Comments submitted by military departments must be clearly identified as either “**Essential**” or “**Suggested.**” Essential comments must include supporting justification or data. Military review activities should forward their comments through their respective custodians, as applicable, allowing sufficient time for consolidation of the department’s response. A lack of response to this draft will be interpreted as concurrence.

If this document is of interest to you, please provide your comments or suggested changes. The point of contact for this document is Mr. Ahmad, phone number 614-693-0661, e-mail Haseeb.Ahmad@dla.mil, or may be mailed via the US Postal Service to DLA Weapons Support (Columbus), ATTN: VAI (Attention: Haseeb Ahmad), P.O. Box 3990, Columbus, OH 43218-3990.

Sincerely,

-/Signed/-
MUHAMMAD AKBAR
Chief,
Interconnection Branch

NOTE: This draft, dated **Oct 1, 2026** prepared by **DLA – CC**, has not been approved and is subject to modification. DO NOT USE PRIOR TO APPROVAL. (Project 4730-2026-076)

INCH-POUND

MIL-DTL-17813/4
w/AMENDMENT 1
DRAFT
SUPERSEDING
MIL-DTL-17813/4
29 August 2009

DETAIL SPECIFICATION SHEET

EXPANSION JOINTS, PIPE, METALLIC, CORRUGATED BELLOWS, EXTERNALLY PRESSURIZED

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet
and MIL-DTL-17813.

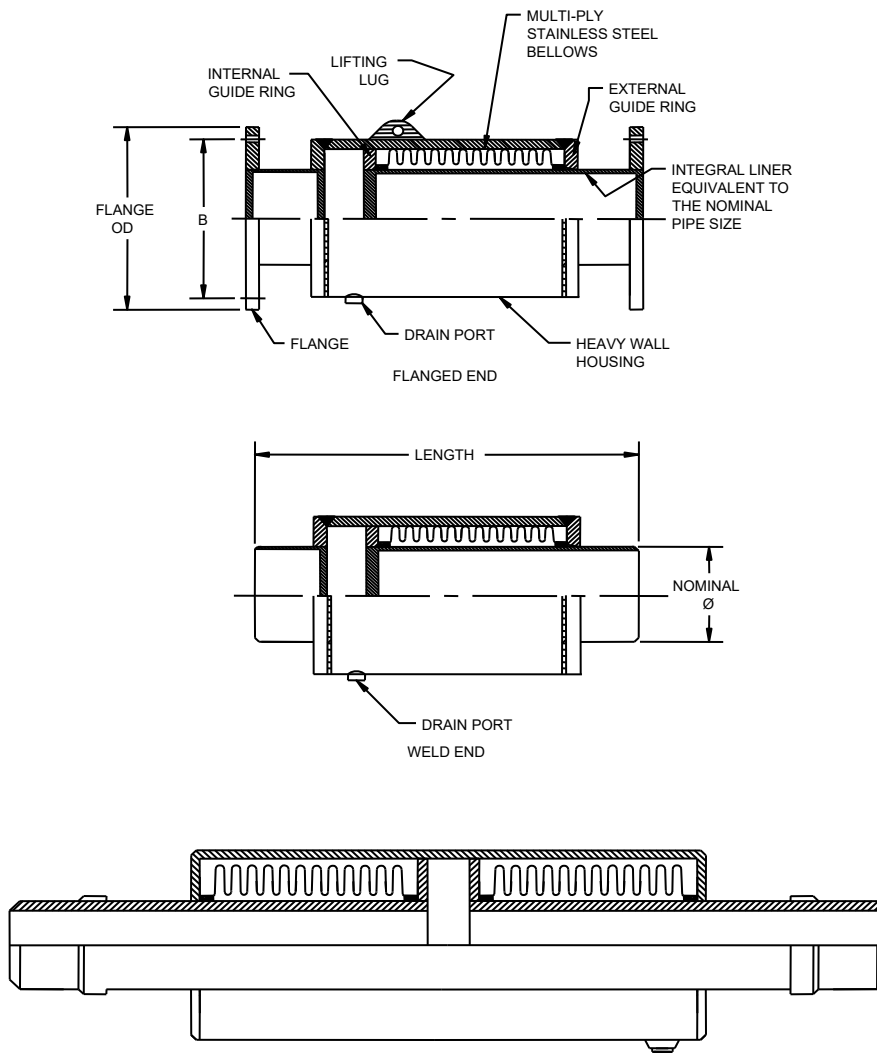


FIGURE 1. Expansion joint, externally pressurized.

AMSC N/A

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FSC 4730



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DN	C-NPS inch (mm)	Flange OD inch (mm) 1/	B (bolt circle diameter) inch (mm) 1/
50	2 (50.8)	6 (152.4)	4.75 (120.7)
65	2.5 (76.2)	7 (177.8)	5.5 (139.7)
80	3 (76.2)	7.5 (190.5)	6 (152.4)
90	3.5 (101.6)	8.5 (215.9)	7 (177.8)
100	4 (101.6)	9 (228.6)	7.5 (190.5)
125	5 (127)	10 (254.0)	8.5 (215.9)
150	6 (152.4)	11 (279.4)	9.5 (241.3)
200	8 (203.2)	13.5 (342.9)	11.75 (298.5)
250	10 (254)	16 (406.4)	14.25 (362.0)
300	12 (304.8)	19 (482.6)	17 (431.8)
350	14 (355.6)	21 (533.4)	18.75 (476.3)
400	16 (406.4)	23.5 (596.9)	21.25 (539.8)
450	18 (457.2)	25 (635)	22.75 (577.9)
500	20 (508)	27.5 (698.5)	25 (635)
550	22 (558.8)	-	-
600	24 (609.6)	32 (812.8)	29.5 (749.3)

1/ See ASME B16.5, flange dimensions, 150 pound.

NOTES:

1. Dimensions are in inches. Metric equivalents are given for information only.
2. The illustration is for identification purposes only and is not intended to restrict designs and shapes of fastening devices, which conform to the requirements and are within the envelope dimensions.

FIGURE 1. Expansion joint, externally pressurized – Continued.

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1.

Construction: Externally pressurized expansion joints shall be constructed of welded metal piping. Each unit shall be constructed with both internal and external guide rings. Each unit shall be equipped with a drain port to be located on the outer shell of the unit. The design shall incorporate a totally enclosed, externally pressurized stainless steel bellows that is protected from by a heavy-walled shroud designed for full line pressure. The bellows shall be of single-ply, or multi-ply construction.

The classification of the expansion joints covered under this specification sheet are as follows:

- | | |
|---------|---|
| Type I | - shall have corrugated bellows. |
| Class 4 | - shall be of the externally pressurized variety either single or double bellows. |

The bellows in class 4 expansion joints shall be designed and manufactured in accordance with the EJMA Standards. Sizes up to and including 10 inches shall be formed from seamless tubing

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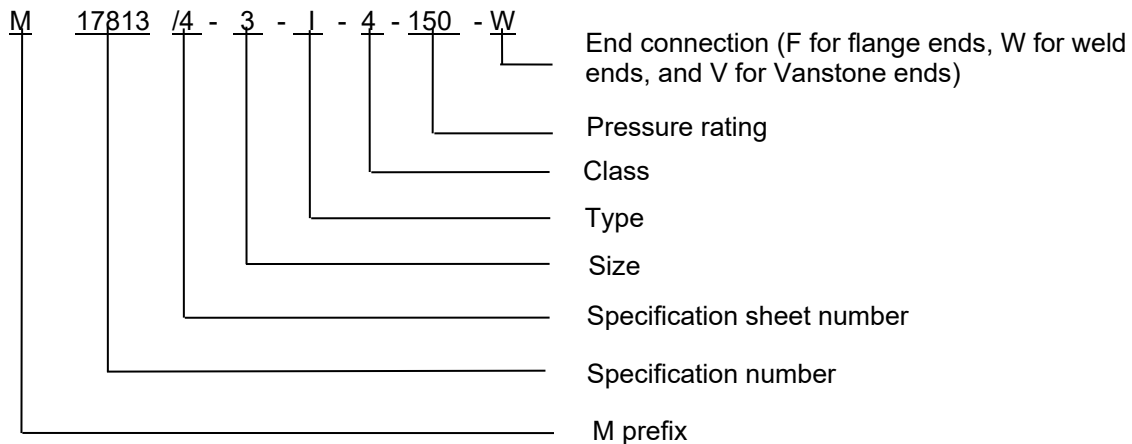
or from a tube having only one longitudinal welded seam. For sizes larger than 10 inches, more than one longitudinal seam is permissible. In no case will circumferential seams be accepted unless the requirements of a particular application require such construction and the design is approved by the agency concerned. Convolutions shall be symmetrical and of similar dimensions.

Single or double bellows construction shall be specified in MIL-DTL-17813.

Materials and finishes.

Materials and finishes for the bellows and flanges shall be in accordance with MIL-DTL-17813.

The Part or Identifying Number (PIN) consists of the letters M, the basic specification number, specification sheet number, size, type, class, pressure rating, and end connection.



PIN example: M17813/4-3-I-4-150-W indicates expansion joint, size 3, corrugated, externally pressurized, 150 pressure rating and welded ends.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. In addition to MIL-DTL-17813, this document references the following:

ASME B16.5
EJMA Standards

MIL-DTL-17813/4
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CONCLUDING MATERIAL

Custodians:

Army - AT

Navy - SH

~~Air Force - 99 71~~

DLA - CC

Preparing activity:

DLA - CC

(Project 4730-2026-076)

Review activities:

Army - CE

Navy - MC, SA

~~Air Force - 71~~

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil> ~~<http://assist.daps.dla.mil>~~.