

Fed. Std. No. 149a

August 3, 1961

(GG-S-947a and GG-S-00948, Issues in Effect)

SUPERSEDING

Int. Fed. Std. No. 00149 (GSA-FSS)

February 6, 1961

FEDERAL STANDARD**SYRINGE, LUER, INTERCHANGEABLE
COMPONENT, DIMENSIONS OF**

Authority.—This standard is issued pursuant to the Federal Property and Administrative Services Act of 1949, as amended, and its application to the purchase of commodities referred to herein is mandatory on all Federal agencies.

S1. Purpose and scope. The purpose of this standard is the establishment of uniform dimensions to the extent necessary to assure interchangeability of components and thus obviate the need for selective assembly of glass luer syringes.

S2. Application. This standard shall be used by reference in Government specifications and

invitations for bids to insure that syringes of the capacities covered, procured for use by the Government, will have barrels and plungers that fit and function properly with the plungers or barrels respectively from any other syringe procured under this standard.

S3. Dimensions. The dimensions of syringe barrels and plungers shall be as indicated in table I.

TABLE I.

Capacity (c.c.)	Barrel dimensions (Inches)				Plungers dimensions (Inches)	
	Length overall not including tip		Inside diameter ¹		Outside diameter ²	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
2	2.10	2.30	0.359950	0.360050	0.359775	0.359825
5	2.80	3.00	0.489950	0.490050	0.489775	0.489825
10	3.60	3.85	0.589950	0.590050	0.589775	0.589825
20	4.20	4.50	0.789960	0.790040	0.789710	0.789790
30	4.60	4.90	0.899960	0.900040	0.899690	0.899770
50	5.00	5.30	1.099960	1.100040	1.099620	1.099700

¹The inside diameter of the barrel up to the full capacity mark shall be within the indicated limiting dimensions except that the final $\frac{1}{4}$ inch at the discharge end may be tapered to a diameter not to exceed 0.002 inch less than the indicated minimum.

²The point of greatest diameter shall be not less than $\frac{5}{16}$ inch nor more than $\frac{3}{4}$ inch from distal end of plunger. The distal end of the plunger shall be tapered. This taper shall start in an area $\frac{17}{64}$ to $\frac{5}{16}$ inch from distal end of plunger and shall be such that the diameter at a point $\frac{1}{4}$ inch from distal end shall be 0.003 inch to 0.006 inch under the indicated minimum.

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S4. Changes. When a Federal agency considers a Federal Standard does not provide for its essential needs, written request for adding to or otherwise changing the standard, supported by adequate justification, shall be sent to the Administration. This justification shall explain wherein the standard does not provide for essential needs. The request shall be sent in duplicate to the General Services Administration, Federal Supply Service Standardization Division, Washington 25, D.C. The Administration will determine the appropriate action to be taken and will notify the agency.

S5. Conflict with referenced specifications. Where the requirements specified in this standard conflict with any requirements in a referenced specification, the requirements of the standard shall apply. Nature of conflict between the standard and the referenced specification shall be submitted in duplicate to the General Services Administration, Federal Supply Service, Standardization Division, Washington 25, D.C.

NAVY INTEREST:

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Single copies of this standard are available without charge at the GSA Regional Offices in Boston, New York, Atlanta, Chicago, Kansas City, Mo., Dallas, Denver, San Francisco, Los Angeles, Seattle, and Washington, D. C. Additional copies may be purchased for 5 cents each from the General Services Administration, Business Service Center, Washington 25, D. C.