

Dimensions, in.

Nominal Diameter	Standard Specimen	Small-Size Specimens Proportional to Standard		
	0.500	0.350	0.250	0.160
G—Gage length	2.000 ± 0.005	1.400 ± 0.005	1.000 ± 0.005	0.640 ± 0.005
D—Diameter (Note 1)	0.500 ± 0.010	0.350 ± 0.007	0.250 ± 0.005	0.160 ± 0.003
R—Radius of fillet, min	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{8}$
A—Length of reduced section, min (Note 2)	2%	1%	1%	$\frac{1}{2}$

NOTE 1—The reduced section may have a gradual taper from the ends toward the center, with the ends not more than 1% larger in diameter than the center (controlling dimension).

NOTE 2—If desired, the length of the reduced section may be increased to accommodate an extensometer of any convenient gage length. Reference marks for the measurement of elongation should, nevertheless, be spaced at the indicated gage length.

NOTE 3—The gage length and fillets shall be as shown, but the ends may be of any form to fit the holders of the testing machine in such a way that the load shall be axial (see Fig. 7). If the ends are held in wedge grips it is desirable, if possible, to make the length of the grip section great enough to allow the specimen to extend into the grips a distance equal to two thirds or more of the length of the grips.

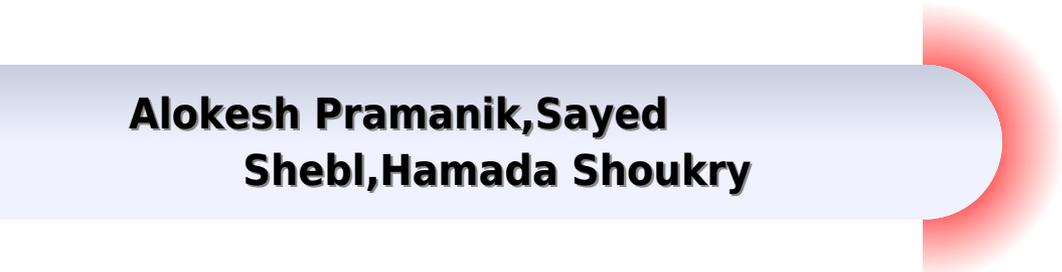
NOTE 4—On the round specimens in Figs. 8 and 9, the gage lengths are equal to four times the nominal diameter. In some product specifications other specimens may be provided for, but unless the 4-to-1 ratio is maintained within dimensional tolerances, the elongation values may not be comparable with those obtained from the standard test specimen.

NOTE 5—The use of specimens smaller than 0.250-in. diameter shall be restricted to cases when the material to be tested is of insufficient size to obtain larger specimens or when all parties agree to their use for acceptance testing. Smaller specimens require suitable equipment and greater skill in both machining and testing.

NOTE 6—Four sizes of specimens often used have diameters of approximately 0.505, 0.357, 0.252, and 0.160 in., the reason being to permit easy calculations of stress from loads, since the corresponding cross-sectional areas are equal or close to 0.200, 0.100, 0.0500, and 0.0200 in.<sup>2</sup>, respectively. Thus, when the actual diameters agree with these values, the stresses (or strengths) may be computed using the simple multiplying factors 5, 10, 20, and 50, respectively.

# Astm B557

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*Manufacturing and Automation* Hari Vasudevan, Vijaya Kumar N. Kottur, Amool A. Raina, 2018-11-04 This book presents the outcomes of the International Conference on Intelligent Manufacturing and Automation ICIMA 2018 organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J Sanghvi College of Engineering Mumbai and the Indian Society of Manufacturing Engineers It includes original research and the latest advances in the field focusing on automation mechatronics and robotics CAD CAM CAE CIM FMS in manufacturing product design and development DFM DFA FMEA MEMS and Nanotechnology rapid prototyping computational techniques industrial engineering manufacturing process management modelling and optimization techniques CRM MRP and ERP green lean agile and sustainable manufacturing logistics and supply chain management quality assurance and environment protection advanced material processing and characterization and composite and smart materials **International Conference on**

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