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Dimensions for Cylindrical Hydraulic Couplers for Lawn and Garden Tractors

Developed by the ASAE Small Tractor and Power Equipment Committee; approved by the ASAE Power and Machinery Division Standards Committee; adopted by ASAE April 1983; corrected editorially June 1984; reconfirmed December 1987; approved as an American National Standard August 1988; revised editorially July 1989; reaffirmed by ASAE December 1992, December 1993, December 1994; withdrawn as an ANSI Standard December 1999; reaffirmed by ASAE December 1999; February 2005; revised October 2010; approved as an American National Standard November 2010; reaffirmed by ASABE December 2014; reaffirmed by ANSI January 2015.

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1 Purpose

1.1 The purpose of this Standard is to establish interface dimensions of cylindrical hydraulic couplers frequently used by the equipment industry to connect hydraulic remote cylinders and other hydraulic devices to lawn and garden tractors.

1.2 The purpose of this Standard is also to permit interchangeable use of remote cylinders and other hydraulic devices on different makes of tractors when designed for this use.

2 Scope

2.1 This Standard covers only cylindrical couplers where interchange between makes is recommended.

2.2 This Standard does not preclude other types of hydraulic couplers used for similar purposes.

3 Coupler Dimensions

3.1 The male half of the coupler is considered part of the cylinder or hydraulic device and shall conform to dimensions given in Table 1.

3.2 The female half of the coupler is considered part of the tractor hydraulic system and shall accept the male half which conforms to dimensions given in Table 1.

3.3 When a quick release, breakaway, or other special feature is required, it shall be provided as part of the female coupler without interfering with interchangeability of the standard male coupler.

3.4 The travel of the valve in the male coupler will be limited as shown in Figure 1, and the force required to open the valve when no pressure is in the coupler shall not exceed 44 N (10 lb).

