

ANSI/ASABE AD5675:2008 JUN2016 (R2020)

Agricultural tractors and machinery — General purpose quick-action hydraulic couplers



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History of ANSI/ASAE S366, Agricultural tractors and machinery – General purpose quick-action hydraulic couplers: Proposed by the Engineering Policy Committee of the Farm and Industrial Equipment Institute; approved by the ASAE Power and Machinery Division Standards Committee; adopted by ASAE as a Recommendation December 1973; reclassified as a Standard March 1978; reaffirmed December 1978; revised March 1982; revised editorially and reaffirmed December 1986; revised editorially July 1989; reaffirmed December 1991; December 1996, December 1997, December 1998; December 1999; January 2001; December 2001, February 2003; adoption with modification of ISO 5675:1992 May 2004; approved by ANSI August 2004; reaffirmed by ASABE February 2009; reaffirmed by ANSI August 2009. Replaced by adoptions with deviations of ISO 5675:2008 June 2016; reaffirmed December 2020.

Keywords: Couplers, Hydraulic, Quick Disconnects, Tractors

0 Foreword

0.1 ANSI/ASABE AD5675:2008 JUN2016, Agricultural tractors and machinery — General purpose quick-action hydraulic couplers, is an adoption with deviations of the identically titled ISO standard ISO 5675:2008, Agricultural tractors and machinery — General purpose quick-action hydraulic couplers. Deviations noted in the following Foreword sections pertain to those provisions where harmonization could not be achieved between ASABE and the International Standard.

Deviations from the subsequently printed international standard are noted with underscore (addition) or strikethrough (deletions) text. Deviations from the international standard figures, tables and equations are clearly marked.

0.2 ANSI/ASABE AD5675:2008 JUN2016 specifies the essential interface dimensions, as defined in ISO 7241:2014, and the operating requirements for hydraulic couplers employed to transmit hydraulic power from agricultural tractors to agricultural machinery. It is applicable to couplers used in hydraulic lines other than those used for braking circuits (see ISO 5676).

0.3 Two normative references are listed in ISO 5675:2008. The responsible ASABE committee has reviewed these references and approved the following deviation.

0.3.1 Replace the reference ISO 7241-1:1987 *Hydraulic fluid power — Quick-action couplings — Part 1: Dimensions and requirements* with ISO 7241:2014 *Hydraulic fluid power — Dimensions and requirements of quick-action couplings*. Any reference to ISO 7241-1:1987 in the printed portion of ISO 5675:2008 shall be replaced by ISO 7241:2014.

0.4 This standard has been approved as an American National standard by ANSI (American National Standards Institute). The original content of ISO 5675:2008 was based on ANSI/ASAE 366.2.

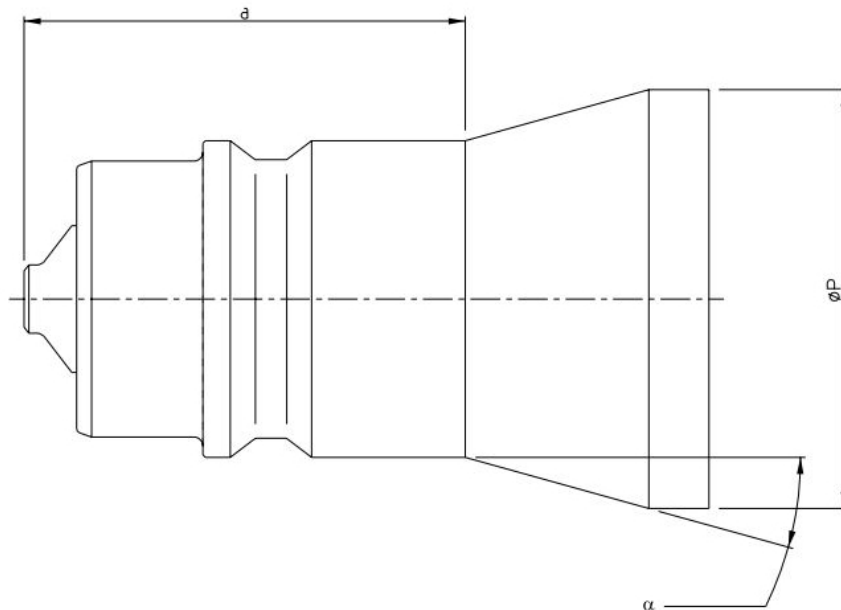
0.5 This standard deviates from ISO 5675:2008 as follows:

0.5.1 See Section 0.3 for Normative reference deviation.

4.1 Dimensional requirements: Change entire section to:

The dimensions of the coupler male part shall be in accordance with ISO 7241:2014, Table 1 and Figure 1, series "A", for sizes 12.5 and 20. The coupler male part dimension shall be in accordance with Figure 1 and Table 1 of this International Standard, Additionally, the 15 degree angle shall be added to be compatible with dust protection devices.

Note 1: Replace ISO Figure 1 with Figure 1 and ISO Table 1 with Table 1 below.



For dimension P , see Table 1

^a Dimension in accordance with ISO 7241, series "A".

Figure 1 – Coupler male part dimensions

Table 1 – Dimension P & α

Nominal Size (according to ISO 7241:2014)	Dimension P	Angle α
12.5	≤ 31	$15^\circ \pm 3^\circ$
20	≤ 38	$15^\circ \pm 3^\circ$

NOTE 1 The nominal size designation corresponds to the nominal inside diameter of the hose recommended for use with the coupling, as specified in ISO 4397

NOTE 2 Similar couplers are described in ISO 7241; however, couplers conforming to ISO 7241 might not conform to this International Standard.