

ASAE S491 APR1992 (R2017)
Graphic Symbols for Pressurized Irrigation System Design



**American Society of
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1 Purpose and Scope

1.1 The purpose of this Standard is to establish a common set of symbols that represent equipment components and can be used in the design and planning of pressurized irrigation systems. Standardization of the graphic symbols makes irrigation plans and drawings more descriptive and easily understood.

1.2 Some irrigation systems may require the use of equipment for which this Standard does not provide a symbol. It is not the intent of this Standard to restrict or inhibit the creation and/or use of additional symbols that may be required by individual circumstances.

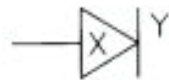
1.3 Symbols have not been included for items such as irrigation machines (i.e., center pivots, moving lateral, traveler, etc.) since these are manufactured irrigation systems.

1.4 This Standard does not specify the size of the symbols used, however the importance of legibility must be considered.

2 General

2.1 Letters may be used in conjunction with the graphic symbols to denote differences in a component such as type, model, pattern, nozzle, pop-up height, size, etc. When there is only one model of a component used in a system, the letter symbol may be omitted.

In the example, symbol X denotes a particular type of irrigation fixture (if D, then an automatic drain valve is represented, see paragraph 3.3) and Y would be any letter (A to Z) that would be referenced to the drawing legend.



Example Symbol

2.2 Drawing legend

2.2.1 The drawing legend shall identify all symbols and give information necessary for procurement.

2.2.2 When symbols are used with identification letters, all symbols for the same type of component shall be grouped together and arranged alphabetically.