

Process Industry Practices P&ID

# PIP PIC001 Piping and Instrumentation Diagram Documentation Criteria

#### PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

In an effort to minimize the cost of process industry facilities, this Practice has been prepared from the technical requirements in the existing standards of major industrial users, contractors, or standards organizations. By harmonizing these technical requirements into a single set of Practices, administrative, application, and engineering costs to both the purchaser and the manufacturer should be reduced. While this Practice is expected to incorporate the majority of requirements of most users, individual applications may involve requirements that will be appended to and take precedence over this Practice. Determinations concerning fitness for purpose and particular matters or application of the Practice to particular project or engineering situations should not be made solely on information contained in these materials. The use of trade names from time to time should not be viewed as an expression of preference but rather recognized as normal usage in the trade. Other brands having the same specifications are equally correct and may be substituted for those named. All Practices or guidelines are intended to be consistent with applicable laws and regulations including OSHA requirements. To the extent these Practices or guidelines should conflict with OSHA or other applicable laws or regulations, such laws or regulations must be followed. Consult an appropriate professional before applying or acting on any material contained in or suggested by the Practice.

This Practice is subject to revision at any time.

© Process Industry Practices (PIP), Construction Industry Institute, The University of Texas at Austin, 3925 West Braker Lane (R4500), Austin, Texas 78759. PIP member companies and subscribers may copy this Practice for their internal use. Changes, overlays, addenda, or modifications of any kind are not permitted within any PIP Practice without the express written authorization of PIP.

**Note:** *PIP PIC001, Piping and Instrumentation Diagram Documentation Criteria*, incorporates symbols previously published in standards owned and copyrighted by The Instrumentation, Systems, and Automation Society (ISA). These are printed with agreement from ISA.

PRINTING HISTORYNovember 1998IssuedApril 2008Complete Revision

Not printed with State funds



## Process Industry Practices P&ID

## PIP PIC001 Piping and Instrumentation Diagram Documentation Criteria

### **Table of Contents**

1.		oduction Purpose	
	1.2	Scope	2
2.	References2		
	2.1	Process Industry Practices	2
		Industry Codes and Standards	
	2.3	Government Regulations	3
3.	Def	initions	3
4.	Red	guirements	5
4.	<b>Rec</b> 4.1	quirements	<b>5</b>
4.	4.1 4.2	General Format	5 6
4.	4.1 4.2 4.3	General Format Equipment	5 6 11
4.	4.1 4.2 4.3 4.4	General Format Equipment Piping	5 6 11 17
4.	4.1 4.2 4.3 4.4	General Format Equipment	5 6 11 17
	4.1 4.2 4.3 4.4 4.5	General Format Equipment Piping Instrumentation and Controls	5 6 11 17
	4.1 4.2 4.3 4.4 4.5 <b>pen</b> App	General Format Equipment Piping Instrumentation and Controls	5 6 11 17

Appendix C – Example P&IDs