

BUILDING SERVICES PIPING ENFORCEMENT SUMMARY (Nov 2011)

This summary was created by the Ohio Board of Building Standards (BBS) staff as a reference tool for code users. The content of this document is not adopted material and, therefore, is not enforceable.

List of abbreviations used in this table:

- ASHRAE-American Society of Heating, Refrigerating, and Air Conditioning Engineers
- ASME-American Society of Mechanical Engineers
- DIC-Ohio Division of Industrial Compliance
- IFGC-International Fuel Gas Code
- N/A-Not applicable
- NFPA-National Fire Protection Association
- OBC-Ohio Building Code
- OFC-Ohio Fire Code
- OMC-Ohio Mechanical Code
- OPC-Ohio Plumbing Code
- ORC-Ohio Revised Code

ENFORCEMENT SUMMARY of OHIO PIPING SYSTEMS					
Type of piping system	Use for type of piping	Pressure or other identification	Ohio Revised Code authority and other applicable code section(s)	Other referenced codes or standards	Regulation enforced by:
Power	Steam from power boilers (at plant)	All	ORC 4104.41 and 4104.42	ASME B31.1	N/A (self-regulated by owner)
	Steam for chemical process piping	All	ORC 4104.41 and 4104.42	ASME B31.1 or B31.3 (designer's choice)	
	Water from high pressure, high temperature boilers (at plant)	All	ORC 4104.41 and 4104.42	ASME B31.1	
	Steam condensate from power boilers	All	ORC 4104.41 and 4104.42	ASME B31.1	
	High pressure, high temperature water condensate	All	ORC 4104.41 and 4104.42	ASME B31.1	
	Compressed Air for tools or machines	All	ORC 4104.41 and 4104.42	ASME B31.1	
	Hydraulic oil tool or machine piping	All	ORC 4104.41 and 4104.42	ASME B31.1	

Type of piping system	Use for type of piping	Pressure or other identification	Ohio Revised Code authority and other applicable code section(s)	Other referenced codes or standards	Regulation enforced by:
Process	Industrial, refinery, and plant process piping	All	ORC 4104.41 and 4104.42	ASME B31.3	N/A (self-regulated by owner)

Type of piping system	Use for type of piping	Pressure or other identification	Ohio Revised Code authority and other applicable code section(s)	Other referenced codes or standards	Regulation enforced by:
Building Services	Water for plumbing fixtures	All	ORC 4104.41 and 4104.43; OPC Chapter 6		Plumbing Inspector in certified municipal department, health district plumbing inspector, or DIC
	Sanitary lines for plumbing fixtures	All	ORC 4104.41 and 4104.43; OPC Chapter 7		
	Non-flammable medical gas, medical oxygen, medical air, and medical vacuum	Nitrogen, oxygen, CO ₂ , NO, etc.	ORC 4104.41 and 4104.43; OPC 1202	NFPA 99C	Medical gas inspector in department certified to enforce med gas; health district employing certified med gas inspector, or DIC
	Fire Protection Systems	Automatic sprinkler piping, special hazards systems piping, compressed air piping for fire protection	ORC 4104.41 and 4104.43; OBC Chapter 9	NFPA 13, 11, 12, 14, 17, and 2001	Certified fire protection system inspector or building inspector in certified department
	Refrigerant piping <i>for comfort cooling systems</i> and refrigerated rooms or spaces (not including self-contained refrigeration systems such as walk-in coolers, freezers, and coolers) (external connecting piping starting at 1 st joint adjacent to compressors, coils, pumps, heat exchangers, chillers, etc.)	All field installed piping (not including factory installed piping integral to self-contained listed equipment)	ORC 4104.41 and 4104.43; OMC section 1107	ASHRAE 15 and 34	Mechanical inspector or building inspector in certified department
		Pre-charged line sets (inspecting only the connections/joints of the line sets to the equipment)	ORC 4104.41 and 4104.43; OMC section 1107	ASHRAE 15 and 34	
	Chilled Water or glycol-based chilled water used for comfort cooling	All	ORC 4104.41 and 4104.43; OMC Chapter 12		Mechanical inspector or building inspector in certified department
	Condenser and cooling tower water	All	ORC 4104.41 and 4104.43; OMC Chapter 12		Mechanical inspector or building inspector in certified department
	Condensate from cooling or dehumidifying coils	All	ORC 4104.41 and 4104.43; OMC Chapter 12		Mechanical inspector or building inspector in certified department
	Antifreeze or Brine secondary coolants (salt, alcohol, or glycol water solutions) used for comfort cooling	All	ORC 4104.41 and 4104.43; OMC section 1107		Mechanical inspector or building inspector in certified department

Type of piping system	Use for type of piping	Pressure or other identification	Ohio Revised Code authority and other applicable code section(s)	Other referenced codes or standards	Regulation enforced by:
Building Services (continued)	Steam heating (hydronic piping)	All	ORC 4104.41 and 4104.43; OMC Chapter 12		Mechanical inspector or building inspector in certified department
	Hot water heating (hydronic piping)	All	ORC 4104.41 and 4104.43; OMC Chapter 12		Mechanical inspector or building inspector in certified department
	Condensate from boilers	All	ORC 4104.41 and 4104.43; OMC Chapter 12 and section 307		Mechanical inspector or building inspector in certified department
	Ground Source Heat Pump systems	All	ORC 4104.41 and 4104.43; OMC Chapter 12		Mechanical inspector or building inspector in certified department
	Fuel Oil	All	ORC 4104.41 and 4104.43; OMC Chapter 13		Mechanical inspector or building inspector in certified department
	Natural gas and fuel gas piping (other than LP gas piping) used for comfort heating, cooking, and emergency fuel applications	From point of delivery (defined in IFGC) to each utilization device	ORC 4104.41 and 4104.43; OMC section 301.3	IFGC	Mechanical inspector or building inspector in certified department
	LP Gas piping (propane, propylene, butane, isobutane, butylene, or mixtures of these hydrocarbons) used for comfort heating, cooking, and emergency fuel applications	Piping used to deliver gas to building (from tank to point of delivery) for use as a fuel gas	ORC 4104.41 and 4104.43; OMC section 301.3	IFGC section 401.2, NFPA 58 and IFC	Mechanical inspector or building inspector in certified department
From point of delivery (defined in IFGC) to each utilization device		IFGC			