

**TABLE 3-2
Hangers and Supports**

Materials	Types of Joints	Horizontal	Vertical	
Cast	Lead and Oakum	5 feet (1,524 mm), except may be 10 feet (3,048 mm) where 10 foot lengths are installed ^{1,2,3}	Base and each floor not to exceed 15 feet (4,572 mm)	
	Compression Gasket	Every other joint, unless over 4 feet (1,219 mm), then support each joint ^{1,2,3}	Base and each floor not to exceed 15 feet (4,572 mm)	
Cast-Iron Hubless	Shielded Coupling	Every other joint, unless over 4 feet (1,219 mm), then support each joint ^{1,2,3,4}	Base and each floor not to exceed 15 feet (4,572 mm)	
Copper Tube and Pipe	Soldered or Brazed	1-1/2 inches (40 mm) and smaller, 6 feet (1,829 mm), 2 inches (50 mm) and larger, 10 feet (3,048 mm)	Each floor, not to exceed 10 feet (3,048 mm) ⁵	
Steel and Brass Pipe for Water or DWV	Threaded or Welded	3/4 inch (20 mm) and smaller, 10 feet (3,048 mm), 1 inch (25 mm) and larger, 12 feet (3,658 mm)	Every other floor, not to exceed 25 feet (7,620 mm) ⁵	
Steel, Brass, and Tinned Copper Pipe for Gas	Threaded or Welded	1/2 inch (15 mm), 6 feet (1,829 mm), 3/4 inch (20 mm) and 1 inch (25.4 mm), 8 feet (2,438 mm), 1-1/4 inch (32 mm) and larger, 10 feet (3,048 mm)	1/2 inch (12.7 mm), 6 feet (1,829 mm), 3/4 inch (19 mm) and 1 inch (25.4 mm), 8 feet (2,438 mm), 1-1/4 every floor level	
Schedule 40 PVC and ABS DWV	Solvent Cemented	All sizes, 4 feet (1,219 mm). Allow for expansion every 30 feet (9,144 mm). ^{5,6}	Base and each floor. Provide mid-story guides. Provide for expansion every 30 feet (9,144 mm). ⁶	
CPVC	Solvent Cemented	1 inch (25 mm) and smaller, 3 feet (914 mm), 1-1/4 inch (932 mm) and larger, 4 feet (1,219 mm)	Base and each floor. Provide mid-story guides. ⁶	
Lead	Wiped or Burned	Continuous Support	Not to exceed 4 feet (1,219 mm)	
Copper	Mechanical	In accordance with standards acceptable to the Authority Having Jurisdiction		
Steel and Brass	Mechanical	In accordance with standards acceptable to the Authority Having Jurisdiction		
PEX	Metal Insert and Metal Compression	32 inches (800 mm)	Base and each floor. Provide mid-story guides.	
PEX-AL-PEX	Metal Insert and Metal Compression	1/2 inch (12 mm)	All sizes 98 inches (2,489 mm)	Base and each floor. Provide mid-story guides.
		3/4 inch (20 mm)		
		1 inch (25 mm)		
PE-AL-PE	Metal Insert and Metal Compression	1/2 inch (12 mm)	All sizes 98 inches (2,489 mm)	Base and each floor. Provide mid-story guides.
		3/4 inch (20 mm)		
		1 inch (25 mm)		

¹ Support adjacent to joint, not to exceed eighteen (18) inches (457 mm).
² Brace at not more than forty (40) foot (12,192 mm) intervals to prevent horizontal movement.
³ Support at each horizontal branch connection.
⁴ Hangers shall not be placed on the coupling.
⁵ Vertical water lines may be supported in accordance with recognized engineering principles with regard to expansion and contraction, when first approved by the Authority Having Jurisdiction.
⁶ See the appropriate IAPMO Installation Standard for expansion and other special requirements.