

AUSTRALIAN STANDARD PIPE MARKING GUIDE

Australian Standard 1345-1995 identifies the contents, direction of flow and safety parameters for pipes, conduits and ducts through color coding. Pipe contents can include water, fluids, air, gasses and electronics and communications wiring. It is not intended to apply to buried or normally inaccessible services. However, the general principles may be applied when considering those services.




COLOUR CODE

Pipe Contents	Colour Name	Example (application) ¹	Exclusions ¹
Water	GREEN	Drinking water ² , waste water, cooling water (seawater), heating water, storm water, hydraulic power supply, recycled water	Sewage, and other dangerously polluted waste water
Steam	SILVER-GREY	Live steam, process steam, exhaust steam, space heating steam	
Oils, flammable & combustible liquids	BROWN	Fuel & lubrication oils, animal & vegetable oils for food processing ² , petrol, diesel, other light fraction fuels, other flammable or combustible liquid substances	Liquefied gases under pressure
Gases	YELLOW-OCBRE	Fuel gases, process gases, liquefied gases under pressure, pneumatic transport of particulate solids, exhaust gases and fumes, medical gases ²	Air, Highly acid or alkaline gases
Acids & Alkalis	VIOLET	All corrosive liquids & gases	
Air	LIGHT BLUE	Compressed air, instrument air, vacuum, ventilation, pneumatic conveyer	
Other liquids	BLACK	Chemical mixtures in water or organic solvent, liquid food stuffs ² , sewage, organic waste, chemical & process wastes	Corrosive materials, Flammable or combustible material
Fire Services	RED	Dedicated water, foam, other fire extinguishing supply lines	Electrical supply, Communication circuits
Electric Power	ORANGE	Electricity supply circuits	Extra-low voltage circuits
Communication	WHITE	Telephone & other communication circuits, extra-low voltage supply	

¹List of applications may not be exhaustive ²Services containing materials for human consumption have a supplementary colour (see **Additional Band Colour** chart below)

ADDITIONAL BAND COLOURS

Certain materials require an additional band of colour displaced in conjunction with the base colour band or pipe marker

Materials for Human Consumption	DARK BLUE	Potable water, food stuffs, other liquids for human consumption and medical gases.	
Hazard Identification	YELLOW	If contaminated with ionizing radiation include radiation symbol	
		If contaminated with biologically hazardous material, include biological hazard symbol	
	All other cases, alternate black and yellow stripes of equal width		

PIPE MARKER SIZE CHART

Minimum height of pipe marker colour patches and letters

Size of service (Outside diameter or depth of side)	Minimum height of background patch	Minimum letter height
<40 mm	≠	≠
40 mm to 75 mm	25 mm	12 mm
>75 mm	50 mm	24 mm

≠ **Small services** - The basic identification colour for use on pipes of less than 40 mm outside diameter shall be a continuous band around the circumference of the pipe with the word or words, where required, in not less than 4 mm upper-case letters placed longitudinally along the pipe and repeated several times around the circumference so that they are visible from all viewing directions.

LABEL ELEMENTS & SIZE



Basic Identification Colour Legend Colour Chevron Colour

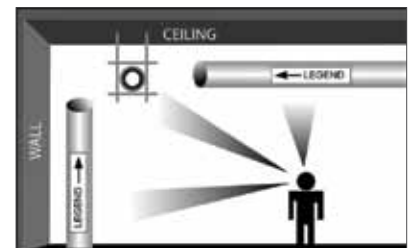
Green, Brown, Red, Violet, Light Blue, Orange, Black	White	Same as basic identification colour
Silver-Grey, White, Yellow-Ochre	Black	Black

Note: One arrow should be removed if flow is in one direction

LOCATION

Pipe markers shall be located adjacent to all junctions, valves, service appliances, bulkheads, wall penetrations and the like, and at spacings not greater than 8 m long. Uninterrupted external services marking spacing shall not exceed 50 m.

LEFT: Label placement in relation to point of normal approach



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