

PLUMBING AND MECHANICAL
INTERPRETATION MANUAL



CODE: 2003 IPC & IRC

DATE:

CODE REF: IRC 2803.6.1 & IPC 504.6.

4/1/2004

SUBJECT: Pan and T & P Relief Drains PAGE 1 OF 2

The code requires relief valve drains to be extended to the outside of the building or to an approved indirect waste receptor located inside the building.

When a sink is installed that requires the waste to be discharged into a sump and pumped to an approved drain, the sump will not be considered an approved location to drain a temperature and pressure relief valve.

IRC P2803.6.1 Requirements of discharge pipe. The outlet of a pressure relief valve, temperature relief valve or combination thereof, shall not be directly connected to the drainage system. The discharge from the relief valve shall be piped full size separately to the outside of the building or to an indirect waste receptor located inside the building. In areas subject to freezing, the relief valve shall discharge through an air gap into an indirect waste receptor located within a heated space, or by other approved means. The discharge shall be installed in a manner that does not cause personal injury or property damage and that is readily observable by the building occupants. The discharge from a relief valve shall not be trapped. The diameter of the discharge piping shall not be less than the diameter of the relief valve outlet. The discharge pipe shall be installed so as to drain by gravity flow and shall terminate atmospherically not more than 6 inches (152 mm) above the floor. The end of the discharge pipe shall not be threaded.

IPC P504.6 Relief outlet waste. The outlet of a pressure, temperature or other relief valve shall not be directly connected to the drainage system.

P504.6.1 Discharge. The relief valve shall discharge full size to a safe place of disposal such as the floor, outside the building, or an indirect waste receptor. The discharge pipe shall not have any trapped sections and shall have a visible air gap or air gap fitting located in the same room as the water heater. The discharge shall be installed in a manner that does not cause personal injury to occupants in the immediate area or structural damage to the building.

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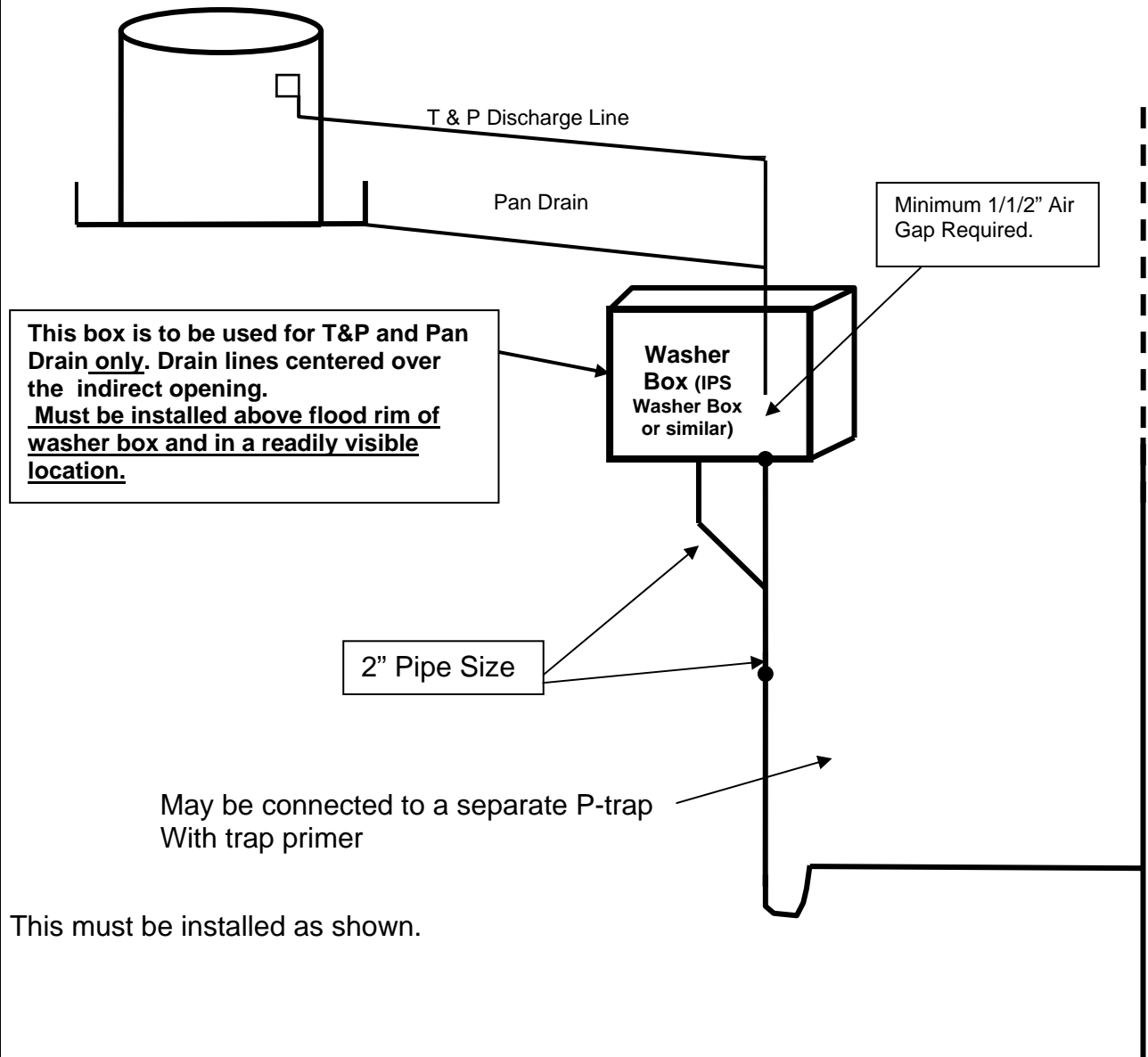
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3/22/2005

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Note that these sections state "or indirect waste receptor". The following configuration may be used as alternative to out side the building.



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