

## Inspection and Technical Services

### Gas Equipment Bulletin: Flexible Connectors

ITS 21-014

**Rationale:** Clarify requirements for using flexible connectors on moveable and stationary appliances (as per section 36 of The Gas and Oil Burner Regulation).

1. Flexible connectors for domestic movable appliances:
  - a. When using flexible connectors for appliances such as dryers, ranges, etc., these connectors should comply with the current A gas connector shall be certified to ANSI Z21.24/CSA 6.10, ANSI Z21.69/CSA 6.16,
  - b. ANSI Z21.75/CSA 6.27, or ANSI Z21.101/CSA 8.5. Connectors for gas appliances. The minimum length may be 3 feet (90 mm). Maximum length 6 feet (1.8 m).
  - c. Each appliance of the above type should have an acceptable restraining device installed in a manner that will effectively prevent undue strain on the connector when the appliance is moved
  
2. Flexible connectors for domestic stationary appliances:
  - a. Flexible connectors for domestic appliances should comply with the current CSA 6.10/ANSI Z21.24 "Connectors for gas appliances." The maximum allowable horizontal deflection from centre to centre is 1 ½ inches. Refer to CSA B149.1 Clause 6.21.3.
  - b. When a flexible connector is installed on a water heater, it should be located to prevent physical damage, and may follow the contour of the appliance.
  - c. A flexible connector should not pass through the walls of a cabinet unless it is approved to do so and this approval is stated within the manufacturer's certified installation instructions. To explain methods to protect copper and corrugated stainless steel tubing systems from mechanical damage.
  
3. CSA Brazed-end flexible connectors:

All CSA **Brazed-end** flexible connectors must be replaced when the appliance they serve is being serviced or replaced.

*ANSI Z21.24/CSA 6.10, ANSI Z21.69/CSA 6.16 and ANSI Z21.75/CSA 6.27 Connectors and fittings are designed for use only on the original installation and **should not be reused** for another appliance or at another location.*