

6% (Luer) Taper Reference Conical Fittings/Gauges

Reference Conical Fittings/Gauges

A Luer fitting is the most common means of achieving a leak-free connection between two medical devices that carry small volumes of fluids.

There are two types of Luer fittings, Luer slip and Luer lock.

- ◆ A Luer slip fitting consists of a tapered cone and a mating tapered cavity.
- ◆ A Luer lock fitting consists of a Luer slip fitting with locking threads added. The Luer lock fitting creates a more secure connection.

Our Reference Conical Fittings/Gauges are useful for performing the following tests as per ISO 594-1:1986 & ISO 594-2:1998

- ◆ **Ease of Assembly:** Ensures that the sample Luer can be assembled with minimum axial force and torque.
- ◆ **Gauging:** A dimensional check is performed using a calibrated plug gauge.
- ◆ **Liquid Leakage:** Ensures that the sample Luer does not leak when pressurized with water.
- ◆ **Air Leakage:** Ensures that the sample Luer does not leak when a vacuum pressure is applied.
- ◆ **Aspiration Leakage:** Ensure that the sample luer does not form bubbles when a vacuum pressure is applied.
- ◆ **Separation Force:** Ensures that the sample Luer remains attached to the reference fitting when an axial load is applied.
- ◆ **Unscrewing Torque:** Ensures that the sample Luer remains attached under a specific unscrewing (counter-clockwise) torque.
- ◆ **Resistance to Overriding:** Ensures that the threads cannot be overridden by a specific screwing (clockwise) torque.
- ◆ **Stress Cracking:** Ensures that the sample Luer does not crack when assembled for 48 hours.

Our Reference Conical fittings/Gauges with a 6% (Luer) taper are designed and manufactured according to ISO 594-1:1986 & ISO 594-2:1998 for testing the Syringes, Luer Hub: Needles, Catheters, Filters, Adaptors, Connectors and certain other medical equipments including Infusion Set, Transfusion Set & Three Way Stopcock.












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ISO Part: 1

ISO Part: 2

ISO Standard No.	Picture	Application
ISO 594/1:1986(E)	 Fig 3A	Ring Gauge: Gauge for testing rigid male conical fittings. a. Gauging Test
ISO 594/1:1986(E)	 Fig 3B	Ring Gauge: Gauge for testing semi-rigid male conical fittings. a. Gauging Test
ISO 594/1:1986(E)	 Fig 3C	Plug Gauge: Gauge for testing female conical fittings of all materials. a. Gauging Test b. Stress Cracking
ISO 594/1:1986(E)	 Fig 4	Female Reference Conical Fitting For testing Male Luer Slip Fittings for: a. Liquid Leakage b. Air Leakage c. Separation Force d. Stress Cracking
ISO 594/1:1986(E)	 Fig 5	Male Reference Conical Fitting For Testing Female Luer Slip Fittings for: a. Liquid Leakage b. Air Leakage c. Separation Force d. Stress Cracking

ISO Standard No.	Picture	Application
ISO 594-2:1998(E)	 Fig 5	Female Reference Conical Fitting for testing male Luer lock fittings for: a. Liquid leakage b. Air Leakage c. Ease of Assembly d. Unscrewing Torque e. Stress Cracking
ISO 594-2:1998(E)	 Fig 6	Female Reference Conical Fitting for testing male Luer lock fittings for a. Separation Force b. Resistance to Overriding
ISO 594-2:1998(E)	 Fig 7	Male Reference Conical Fitting for testing Female Luer lock fittings for: a. Liquid leakage b. Air Leakage c. Ease of Assembly d. Unscrewing Torque e. Stress Cracking
ISO 594-2:1998(E)	 Fig 8	Male Reference Conical Fitting for testing Female Luer lock fittings for: a. Separation Force b. Resistance to Overriding