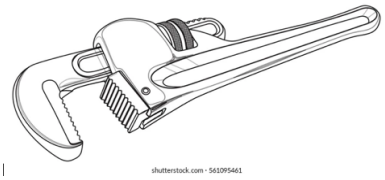
A **pipe wrench** is a type of adjustable wrench specifically designed for gripping and turning pipes and other round objects. It has **serrated jaws** that **grip tightly** onto cylindrical surfaces, and the adjustable jaw can be moved to accommodate different pipe sizes. The key characteristic in pipe wrench are **Adjustable Jaw**, **Self-Locking Grip** and **Teeth and Serrated Jaws.**




Pipe wrenches are often used in **plumbing**, construction, and other fields where pipes and fittings need to be installed, removed, or tightened.

Consumers expect following qualities in a pipe wrench to ensure durability, safety, and efficiency:

**High-Strength and Durable Material**

**Corrosion Resistance**

**Strong, Slip-Resistant Grip**

**Adjustability and Precision**

**Ergonomic Design**

**Lightweight**

**Replaceable Jaw Teeth**

**Impact Resistance**

**Versatility in Design**

**Safety and Reliability**

*Let us see how the requirements given in the standard meets the expectation of the customers!*

Requirement of **material** for Handle and movable jaw, frame, spring and Adjusting nut and hinge pin has been provided in the standard. You can see all major components has been covered.

The requirement for **hardness** of the various components has been prescribed in the standard such as hardness of the jaw shall be **50 to 55 Hardness Rockwell C Scale (HRC)** and hardness of the Handle and shank of the **movable jaw** shall be maximum **41 HRC**.

To **guide** the manufacturer's, the **manufacturing process** parameters of all the components such as Handle, Movable Jaw, Adjusting Nut, Frame, Hinge Pin and Spring has been prescribed in the standard.

After the workmanship and finish the wrenches shall be free from flaws, cracks, rust, burrs and other injurious defects. The movable jaw shall be properly finished.

To ensure the high strength and durability of material used to make wrench, **static load test** and **static-shock load test** has been prescribed in the standard.