



## IS 13382:2018

### Cast Iron Specials For Mechanical and Push-On flexible Joints for Pressure Pipelines for Water, Gas and Sewage

**Cast iron specials** refer to specialized fittings and connectors designed for **pressure pipelines** that carry water, gas, and sewage. These fittings, which include **mechanical and push-on flexible joints**, are essential for securely linking cast iron pipes, providing strength and flexibility to withstand high pressures and accommodate slight movement or shifts in the pipeline. These joints are critical in ensuring the safety and efficiency of pipeline systems in municipal and industrial applications.

Consumers and engineers expect cast iron specials to meet high standards of **durability, leak resistance, and corrosion protection**. In particular, the joints must be strong enough to handle high pressure without failing, even when exposed to varying environmental conditions or potential chemical exposure in sewage and gas pipelines. Additionally, flexible joints are valued for their ability to absorb movement from thermal expansion, ground shifts, and installation variations, which helps reduce stress on the pipeline and extends its operational lifespan.

**IS:13382** for cast iron specials, like those for mechanical and push-on flexible joints, establish strict criteria for **material quality, tensile strength, and manufacturing precision**. IS:13382 ensure that each fitting can reliably withstand pressure and environmental factors without leaks or failures. They also set guidelines for **corrosion-resistant coatings** and testing procedures, guaranteeing that these joints deliver reliable performance and longevity in water, gas, and sewage systems.

Summary: Cast iron produced under **IS:13382** specials for mechanical and push-on flexible joints are engineered to provide **secure, leak-resistant connections** in pressure pipelines, meeting high durability and flexibility standards for various applications in water, gas, and sewage management.

