# Pipeline Transportation Systems for Liquids and Slurries

Standards for Engineers Worldwide

## ASME B31.4-2012

ASME has been defining piping safety since 1922.

ASME B31.4 covers piping transporting liquids between production facilities, tank farms, natural gas processing plants, refineries, pump stations, ammonia plants, terminals (marine, rail, and truck), and other delivery and receiving points.

Piping here consists of pipe, flanges, bolting, gaskets, valves, relief devices, fittings, and the pressure-containing parts of other piping components. It also includes hangers and supports, and other equipment items necessary to prevent overstressing the pressure-containing parts. ASME B31.4 does not include support structures such as frames of buildings, stanchions, or foundations, or any equipment. Requirements for offshore pipelines are found in Chapter IX. Requirements for $CO_2$ piping are found in Chapter X. Requirements for slurry piping are found in Chapter XI.

Key changes to this revision include new requirements for $CO_2$ piping and the incorporation of requirements of ASME B31.11 into ASME B31.4.

This Code prescribes comprehensive solutions for materials, design, fabrication, assembly, erection, testing and inspection. It also serves as a companion to ASME's other B31 codes on piping systems. Together, they remain essential references for anyone engaged with piping.

**Careful application of these ASME B31 standards will help users to comply with applicable regulations within their jurisdictions,** while achieving the operational, cost and safety benefits to be gained from the many industry best-practices detailed within these volumes.

**Intended for** liquid pipeline designers, owners, regulators, inspectors, and manufacturers. Primary industries served include those for carbon dioxide, liquid alcohol, liquid anhydrous ammonia, and liquid petroleum products.

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