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3.6 Two-phase flow pressure drop3.7 General aspects in design of piping systems in oil, gas, and petrochemical plants; 3.8 Isometric drawings; 3.9 Line identification list; 3.10 Pipe supports; 3.11 Pressure testing diagram; 3.12 Tie-in diagram; 3.13 Above-ground piping systems; 3.14 Valves; 3.15 Flanges; 3.16 Instrument piping; 3.17 Sample systems; 3.18 Vents and drains; 3.19 Blow-down; 3.20 Utility piping; 3.21 Piping adjacent to equipment; 3.22 Piping flexibility; 3.23 Piping supports; 3.24 Insulation; 3.25 Piping connections to existing plant; 3.26 Underground piping systems; References

Further readingChapter 4 - Gas-Liquid Separators; 4.1 Gravity settling; 4.2 Gas-liquid separators in oil and gas processing; 4.3 Conventional gas-liquid separators; 4.4 Design criteria of separators; 4.5 Gas-liquid separator sizing; 4.6 Specification sheet; 4.7 Mist eliminator type and installation point; 4.8 Centrifugal gas-liquid separators; 4.9 Flare knock-out drums; 4.10 Gas-liquid filter separators; 4.11 Process requirements of vessels, reactors, and separators; 4.12 Nature of the feed; 4.13 Solid-liquid separators

4.14 Typical equations, which can be used for terminal velocity calculation4.15 Vessels; Reference; Further reading; Chapter 5 - Gas Compressors; 5.1 Type selection criteria; 5.2 Centrifugal compressors; 5.3 Design criteria; 5.4 Reciprocating compressors; 5.5 Axial compressors; 5.6 Screw compressors; 5.7 Rotary compressors; 5.8 Compressor cooling water jacket; 5.9 Atmospheric pressure; 5.10 Specification sheets; 5.11 Material for axial and centrifugal compressors and expander-compressors; 5.12 Centrifugal and axial compressors; 5.13 Integrally geared compressors; 5.14 Expander-compressors

Reference

Sommario/riassunto

Natural gas is considered the dominant worldwide bridge between fossil fuels of today and future resources of tomorrow. Thanks to the recent shale boom in North America, natural gas is in a surplus and quickly becoming a major international commodity. Stay current with conventional and now unconventional gas standards and procedures with Natural Gas Processing: Technology and Engineering Design. Covering the entire natural gas process, Bahadori's must-have handbook provides everything you need to know about natural gas, including: Fundamental background on natural gas pro
