

Steam Piping Guidelines

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Steam systems should be piped to allow gravity drain-down when not in use, or should be blown out with compressed air at the end of each heating season. Source: Thanks to Duane Hagen of Merlo Steam for providing these photos and an explanation of what the problem is and the best way to fix it.

[Steam Piping Best Practices | CleanBoiler.org](#)

Steam Piping Guidelines CLEAN STEAM & PIPING DESIGN GUIDELINES 1. Extra care should be taken for ex-pansion stresses due to the higher coefficient of expansion for stain-less steel. 2. Branch connections are to be made from the top of headers with the block valve as close as possible to the header. 3. The recommended types of branch connections ...

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Acces PDF Steam Piping Guidelines steam system: 1. The initial pressure at the boiler and the allowable pressure drop of the total system. The total pressure drop in the system should not exceed 20% of the total maximum pressure at the boiler. Pipe Sizing Steam Supply and Condensate Return Lines A steam trap is an automatic valve that allows ...

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Best Practice #1: Choose Trap Locations Carefully. Best Practice #2: Provide Proper Support and Inclined Steam Piping. Best Practice #3: Pay Attention to Drip Leg (Drain Pocket) Configuration. Sample Guidelines for Drip Leg Dimensions. Best Practice #4: Properly Remove Air and Condensate at End of Steam Line.

[Best Practices for Condensate Removal on Steam Lines | TLV—](#)

Since the steam velocity must not exceed 25 m/s, the pipe size must be at least 130 mm; the nearest commercially available size, 150 mm, would be selected. Again, a nomogram has been created to simplify this process, see Figure 10.2.8.

[Pipes and Pipe Sizing | Spirax-Sarco](#)

Steam safety valves are required by codes, insurance, and corporate mandates. Therefore, it is important to have the safety valve properly sized and installed to meet all code requirements. A well-documented database and up-to- date records of all safety valves in the steam system is a standard for today ' s plant operation.

[PROPER SIZING AND INSTALLATION FOR STEAM SYSTEM SAFETY VALVES](#)

intended, and if the steam piping meets the following criteria: a) design temperature not exceeding 370 deg C (700 deg F); b) the total pipe system length not exceeding 10 m and the spacing between supports not exceeding 3 m; c) pipes and pipe components used are of NPS 2" (DN50 mm) to NPS 12" (DN300 mm), and

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Steam lines MUST have slope, as no matter how effective the insulation is, some heat will always be lost, and a portion of the steam will condense. This water must be effectively removed. The preferred method is forward slope, in which the steam and condensate flow in the same direction. Recommended forward slope is 1" in 20 feet.

[Slope for steam line—Pipelines, Piping and Fluid—](#)

A simple rule of thumb for smaller steam piping (6" and below) is to keep steam velocities below 10,000 feet/minute (165 feet/second) for short lengths of pipe only. The length of the steam line between X and A is 1000 feet, so the simple rule of thumb can not be applied here because the pressure drop will be too high.

[ENGINEERING GUIDE—Steam Specialty](#)

Armstrong Steam and Condensate Group, 816 Maple St., Three Rivers, MI 49093 – USA Phone: (269) 273-1415 Fax: (269) 278-6555 [armstronginternational.com](#) 2 Designs, materials, weights and performance ratings are approximate and subject to change without notice.

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The distribution pressure of steam is influenced by a number of factors, but is limited by: The maximum safe working pressure of the boiler. The minimum pressure required at the plant. As steam passes through the distribution pipework, it will inevitably lose pressure due to: Frictional resistance within the pipework (detailed in Module 10.2).

[Introduction to Steam Distribution | Spirax-Sarco](#)

Pipes and piping components are normally manufactured to meet the requirements of national standards such as ASME B31 Code for Pressure Piping or BS 1560 Circular Flanges for Pipes, Valves and...

[Design Codes—Pipework—HSE](#)

Relief valves 2-1/2" and larger shall in the case of all medium and low pressure steam piping systems be arranged for flanged inlet and screwed outlet connections. Such relief valves shall be Consolidated Type 1511 or Spirax Sarco 252, ASME Standard Cast Iron Safety Valves, or approved equal. 3.

[5.23.22 STEAM AND CONDENSATE PIPING AND PUMPS DESIGN AND—](#)

Piping systems designed for steam pressures from 25 psig up to and including 125 psig are medium-pressure steam. Systems 126 psig and above are high-pressure steam. 2. Distribution piping complying with Thermal Energy Cooperative (TECO) requirements is considered high-pressure steam.