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Steam Piping

Guidelines Steam Piping Guidelines

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Steam Study: Looking
at Traps, Condensate
Returns, and

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~~Guidelines - Boiling~~

Point **Steam Heating**

System Piping

Steam Boiler Piping

Tips ~~Steam Systems |~~

~~What is a Drip Leg? -~~

Weekly Boiler Tips

Guidelines for Steam

System Efficiency

Pipe Class and Piping

Specification - A

Complete Guide

Guidelines for Steam-

Air Coil System

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~~Design PIPE SIZING |~~

~~LINE SIZING |~~

~~EXAMPLE |~~

~~HYDRAULICS |~~

~~PIPING MANTRA |~~

~~Become a Steam
Piping System Expert
with AFT Arrow~~

~~Radiator and Banging
Steam Pipes Pt.1~~

~~Steam System | Near
Trap Steam Piping~~

~~Weekly Boiler Tips~~

~~Near-Boiler Piping in~~

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~~Steam Heating~~

~~Systems Piping~~

~~Engineering : why~~

~~steam trap is required~~

~~for steam lines Boilers~~

~~Basic Principles~~

~~\u0026 Types | Piping~~

~~Analysis Piping~~

~~Interview Questions~~

~~Part 1 Code and~~

~~Standard~~

Radiator and Banning

steam pipes Pt 2 *What*

is Steam Hammer?

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Steam Pipe sizing

Armstrong Guidelines
for Steam Trap Repair

**Steam Header Pipe
Sizing for a Rental
Boiler - Boiling Point**

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Guidelines~~

Steam systems
should be piped to
allow gravity drain-
down when not in
use, or should be
blown out with

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~~Guidelines~~ 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~~

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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

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block valve as close as possible to the header. 3. The recommended types of branch connections ...

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DESIGN

GUIDELINES 1. Extra care should be taken for expansion stresses due to the higher coefficient of expansion for stainless steel. 2. Branch connections are to be made from the top of headers with the block valve as close as possible to the

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~~orrisrestaurant.com~~

CLEAN STEAM & PIPING DESIGN

GUIDELINES 1. Extra care should be taken for expansion stresses due to the higher coefficient of expansion for stainless steel. 2. Branch

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~~Guidelines~~ 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 are tees and reducing tees. 4.

~~CLEAN STEAM~~

~~DESIGN~~

~~GUIDELINES CLEAN~~

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~~STEAM & PIPING
DESIGN ...~~

Acces PDF Steam
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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

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pressure at the boiler.
Pipe Sizing Steam
Supply
and Condensate Return Lines A steam trap
is an automatic valve
that allows ...

~~Steam Piping
Guidelines — embrace
africagroup.co.za
Best Practice #1:
Choose Trap
Locations Carefully.~~

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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.

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~~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

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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

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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~~

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~~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

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Guidelines components used are of NPS 2" (DN50 mm) to NPS 12" (DN300 mm), and

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~~Guide 06~~

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

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~~Guidelines~~ Condensate. 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~~

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Fluid Guidelines

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

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thumb can not be applied here because the pressure drop will be too high.

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Armstrong Steam and
Condensate Group,
816 Maple St., Three
Rivers, MI 49093 –
USA Phone: (269)
273-1415 Fax: (269)

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weights and
performance ratings
are approximate and
subject to change
without notice.

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CONSERVATION
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Armstrong Inc.
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Piping Guidelines

Would reading compulsion change your life? Many tell yes. Reading steam piping guidelines is a good habit; you can build this infatuation to be such interesting way. Yeah, reading need will not and no-one else make you have any favourite activity.

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kolabdigital.com

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higher coefficient of expansion for stainless 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.

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Guidelines - web.sima
.notactivelylooking.co
m~~

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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

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Guidelines 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

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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

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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~~

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~~GUIDELINES
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

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Cooperative (TECO)

requirements is
considered high-
pressure steam.

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