

GP 03-16-03	Heat/Weather Shields for Flanges and Flangeless Valves	July 2001
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Heat/Weather Shields for Flanges and Flangeless Valves

GP 03-16-03

Scope

[I] This Global Practice (GP) covers the design of heat/weather shields for the protection of flangeless valve installations and flanged joints (with or without spacers) in dangerous material services. Flange leak bands (with or without the use of external insulation) are also covered by this design.

[I] An asterisk (*) indicates that additional information is required. If a job is contracted, this additional information is furnished in the Job Specification.

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1. Definitions

Term	[I] Definition
Equipment with a high potential for fire	Defined for purposes of heat / weather shield selection as: a. Pumps handling flammable liquids b. Gas compressors handling flammable materials c. Fired heaters handling flammable liquids in the tubes d. Vessels, heat exchangers, and other equipment containing flammable liquids at a temperature over 600°F (315°C)
Heat / weather shields	Devices to protect pipe flanges and bolting from the effects of flame or firewater impingement and the cooling effects of rain, where such exposure could result in flange leakage
Leak bands	Devices to contain leakage from flanged connections
"Long body" flangeless control valves	Types having the vane or plug fully contained within the valve body when in the open position
Services categories	Defined as follows for the purpose of heat / weather shield selection: a. Category I Services: Flammable, combustible, toxic, or highly corrosive materials, at a design temperature > 600°F (315°C) b. Category II Services: Flammable, combustible, toxic, or highly corrosive materials, at a design temperature ≤ 600°F (315°C) c. Category III Services: Any material not listed in Subparagraph. a. or b., above, at a design temperature > 600°F (315°C)

2. Application

- 1) * [S] The selection and use of heat / weather shields shall be according to Table 1.
- 2) [R] The design and installation of heat / weather shields for Category II and III services shall conform to the following:
 - a) Shields shall be fabricated from Type 304 stainless steel, 0.06 in. (1.5 mm) thick.
 - b) Shields shall:
 - i) Enclose the flanged assembly (end to end)
 - ii) Be lapped to shed water
 - iii) Be secured with band.

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