



Hartford Steam Boiler

ISO 9001 - HSB Registration Services  
PED - HSB UK



Certified to  
NSF/ANSI 61

## EMERGENCY SERVICE FLANGES AND FITTINGS

### Branch Outlet Fittings - SP97

- A. Conventional Weld-On: 1/8" - 72"
  - a. Buttweld, Socket-weld, Threaded, Flanged, Nipple, Grooved, Lateral, Elbow Mount, Hill Side,
- B. Insert / Weld-In: 1/8" - 72"
  - a. Sweep Style, Nozzle Style, Safety Relief, Buttweld, Socket-weld, Threaded, Flanged, Lateral, Elbow Mount, Hill Side

### Forged Steel Fittings - B16.11

- A. Tee, Cross, Lateral: 1/8" - 6"
  - a. Socket-weld, Threaded, Combination
- B. 45° / 90° Elbow: 1/8" - 6"
  - a. Socket-weld, Threaded, Combination
- C. Coupling, Couplet, Boss, Cap: 1/8" - 6"
  - a. Socket-weld, Threaded, Combination

### Buttwelding Fittings - B16.9, SP75

- A. Tee, Cross, Lateral, Wye: 1/2" - 24"
- B. Concentric / Eccentric Reducer: 1/2" - 24"
- C. 45° / 90° Elbow (Forged Style): 1/2" - 6"
- D. Lap Joint Stub End: 1/2" - 24"
- E. Cap: 1/2" - 24"

### Flanges - B16.5, SP44, VIII-1 App.24

- A. Welding Neck Flange: 1/2" - 24"
- B. Blind Flange: 1/2" - 24"
- C. Hub Flange: 1/2" - 24"
  - a. Slip-on, Lap, Socket-Weld, Threaded

### Swages - SP95

- A. Concentric: 1/4" - 6"
- B. Eccentric: 1/4" - 6"

### Pipe Nipples

- A. Plain, Beveled, Threaded, Grooved: 1/8" - 6"

### Miscellaneous

- A. Hemi-Heads
- B. Nozzles
- C. Studding Outlets
- D. Transition Pieces

### Forging Materials

- A. Carbon Steel - A105
- B. Carbon Steel - A105 *Enhanced*  
Mn:C ratio  $\geq$  5:1, C  $\leq$  0.23, CE  $\leq$  0.43,  
Grain Size 7 or finer
- C. Low Temperature - A350 LF2 CL.1
- D. HF Acid / HF Alky (A961 S62)
- E. Low Temperature Flanges - A707 L3 CL.3
- F. High Yield  
F42, F46, F48, F50, F52, F56, F60, F65, F70
- G. 300 Series Stainless Steel  
304/L, 304H, 316/L, 316H, 317, 321, 321H,  
347, 347H
- H. Duplex Ferritic-Austenitic Stainless Steel  
F51, F53, F55, F60
- I. Low Alloy Steels  
F5, F9, F91 Type 1, F91 Type 2, F11 CL.1,  
F11 CL.2, F11 CL.3, F22 CL.1, F22 CL.3
- J. Nickel Alloys  
200, 400, 600, 625, 800H, 800HT, 825
- K. High Temp. Corrosion Resistant  
A20, AL6XN, C276, HAST-B2, C-22

"WOI Products are manufactured in the United States Of America"