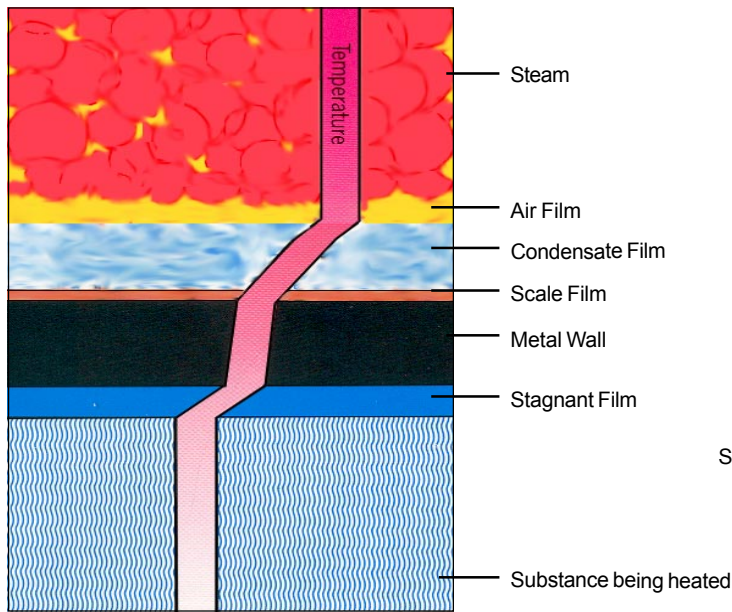
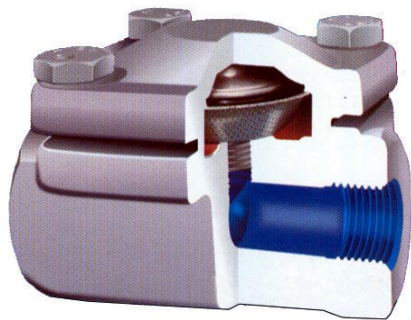
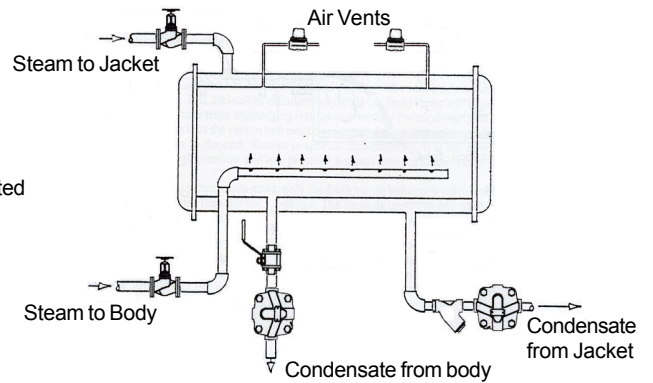
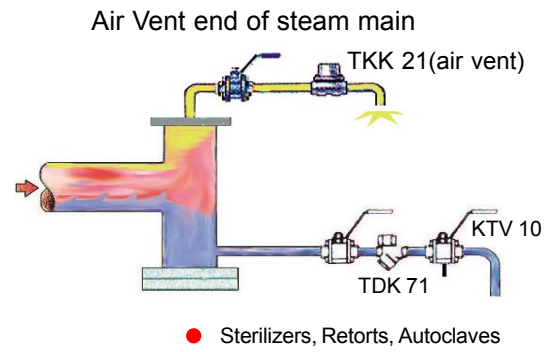


# Effect of air in steam piping

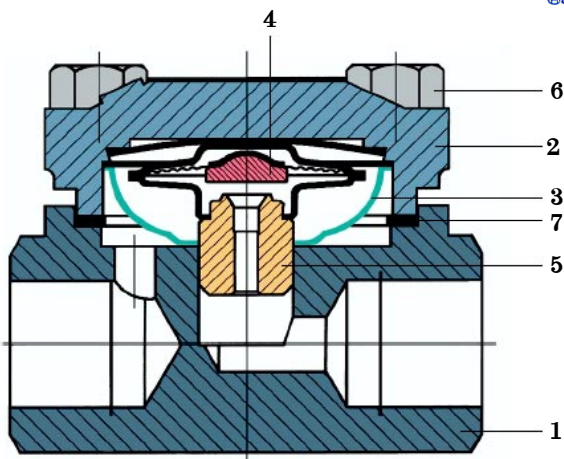
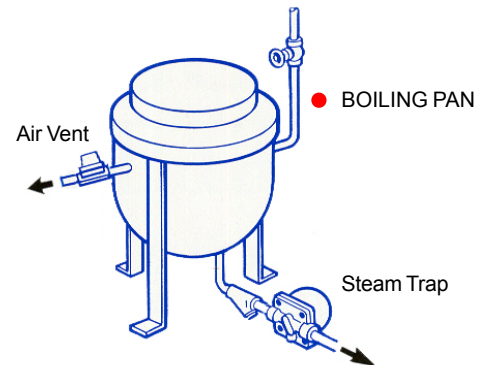
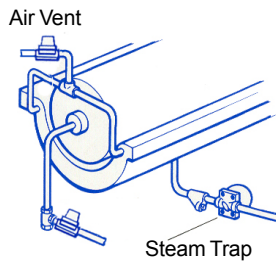
## TYPICAL APPLICATIONS



■ Steam    
 ■ Condensate    
 ■ Air



● LAUNDRY CALENDER (WITH HEATED BED & ROLL)



## Effect of air in steam piping

Air is the enemy to steam system like heat resistance (poor heat transfer) as 1 mm thickness of air film its resistance equal to water thickness 25 mm or equal to steel thickness 1,320 mm

**Example** Air in the steam system 1/3 and steam system pressure 3 barg  
 air pressure existing =  $1/3 \times 3 = 1$  barg  
 steam existing pressure =  $2/3 \times 3 = 2$  barg

if 100 % steam in this system 3 barg. its saturation temperature must be = 143.75 °C but now steam only 2 barg its saturation temperature only = 133.69 C  
 its reduced steam temperature = 143.75 - 133.69 °C = 10.06 °C

### Materials

1 Body	Forged Steel ASTM A1 05
2 Cover	Forged Steel ASTM A1 05
3 Strainer	Stainless Steel
4 Thermostatic Capsule	Stainless Steel
5 Seat	Stainless Steel AISI 304
6 Cover Bolts	ASTM A1 93 B 16
7 Gasket	Klingcrit Asbestos Free