



Description

- 1. The water inside the jet mixing with the steam fully, ensure that the heating process to be quiet, effcient and safe.
- 2. Reduce chemical oxygen demand.
- 3. Stainless steel, long life, maintenance-free.
- 4. To avoid the water tank temperature stratification and maintain efficient.

Selection of possible applications

steam injectors use steam to raise the temperature of water or other liquids. The injector draws in cold liquid, mixes it with steam inside the injector and distributes the heated liquid in the tank. In many applications the circulation induced by the injector is an advantage ensuring thorough mixing and avoiding temperature stratification.

Selection of possible flow media

Steam



SI Steam injectors

Dimensions and Weights(mm/kg)

Туре	A	В	С	Weights
SI15	1/2"	205	28	0.4
SI25	1"	84	71	0.8
SI40	1½"	115	88	1.6

Materials

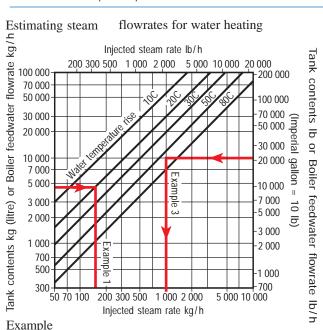
Austenitic stainless steel ASTM A351 CF3M.

Size and connections

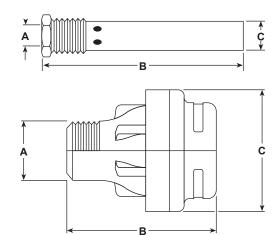
1/2", 1", 11/2"BSP or NPT 1", 11/2" Butt-weld

Temperture and Pressure limits

Body design rating	362.6 psi/PN25	
Minimum operating pressure	7.25 psi g/0.5 bar g	
Maximum saturated steam condition	246 psi-404°F/17 bar-207°C	
Maximum heated liquid temperature	194 °F/90 °C	



- Example
- 1. 'My tank size is 1.5 m \times 2 m \times 1.5 m. I want to heat it from 20 to 40C in one hour'. Assume the tank is full. The tank volume = 4.5 m = 4500 litre (4500 kg).From the graph the required injected steam rate = 155 kg/h.
- 2. 'My tank is the same as example 1, but I want to heat it in 20 minutes'. Since it is required to heat it up 3 times faster, then the injected steam rate will be three time as great i.e. 465 kg/h.
- 3. 'I want to heat up my boiler hotwell fron C30 90C, I have two boilers steaming all year round. They are each generating



Capacity - selecting a steam injector

SI15

SI25 SI40

Injector type	SI15	SI25	SI40		
System pressure psi/bar g	Saturated steam capacity kg/h				
7.25/0.5	11	75	222		
14.5/1	20	135	400		
29/2	48	175	580		
43.5/3	66	280	805		
58/4	84	350	970		
72.5/5	102	410	1125		
87/6	120	500	1295		
101.5/7	138	580	1445		
116/8	156	640	1620		
130.5/9	174	700	1820		
145/10	192	765	1950		
159.5/11	210	830	2250		
174/12	228	900	2370		
188.5/13	246	975	2595		
203/14	264	1045	2710		
217.5/15	282	1095	2815		
232/16	300	1170	3065		
246.5/17	318	1225	3200		