

## BRONZE STEAM WATER MIXER "Fig.93"

### Thread connections

fig.93



### Description

Steam water mixer fig.93 is a simple, yet efficient device for low cost heating of process liquids by direct steam injection. Designed for direct connection to liquid and steam lines, the heater mixes cold liquid and steam and raise the temperature of the liquid instantly to predetermined levels.

When the heater is in operation, there is no water pressure drop through the unit.

These units have no moving parts to adjust or repair.

Temperature and water flow at the outlet of the mixer are regulated by using water and steam valves settled to the connections (not included in supply).

### Construction

Fig. 93 steam water mixer consists of a one-piece body an diffuser and a removable steam nozzle.

These heaters are normally made and stocked in bronze, but can be supplied in other machinable and castable alloys.

### Operation

Steam under pressure enters the heater and flows through the motive nozzle.

The steam jet emerging from the motive nozzle at high velocity transmits its kinetic energy to the liquid; Intimate mixing of steam and water occurs in the venturi diffuser.

Thus the steam is completely condensed and the liquid is heated before it is discharged into the connecting pipeline.

Steam and water adjustment valves are mandatory to obtain flow rate of hot water at the required temperature.

### Installation

The heater can be installed in any position.

The steam valve shall be installed directly at the steam connection, if possible.

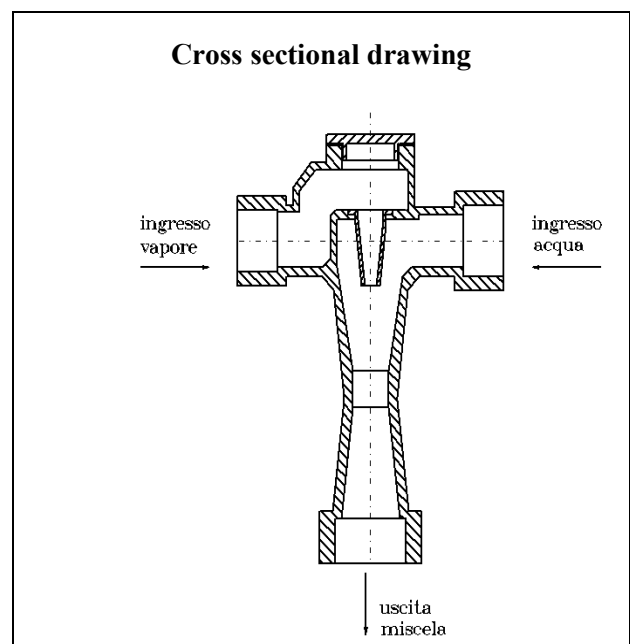
It is recommended that a strainer is fitted at the steam inlet in order to avoid any impurities.

The heater performs a noiseless operation.

To ensure correct operation of the mixer, the steam inlet steam pressure must be:

- Minimum 1.0 bar.
- Equal to or not less of the water pressure

The fig. 93 steam water mixer, available in two size, operates with a maximum steam pressure of 10 bar. Maximum hot water temperature is 90°C at atmospheric pressure.



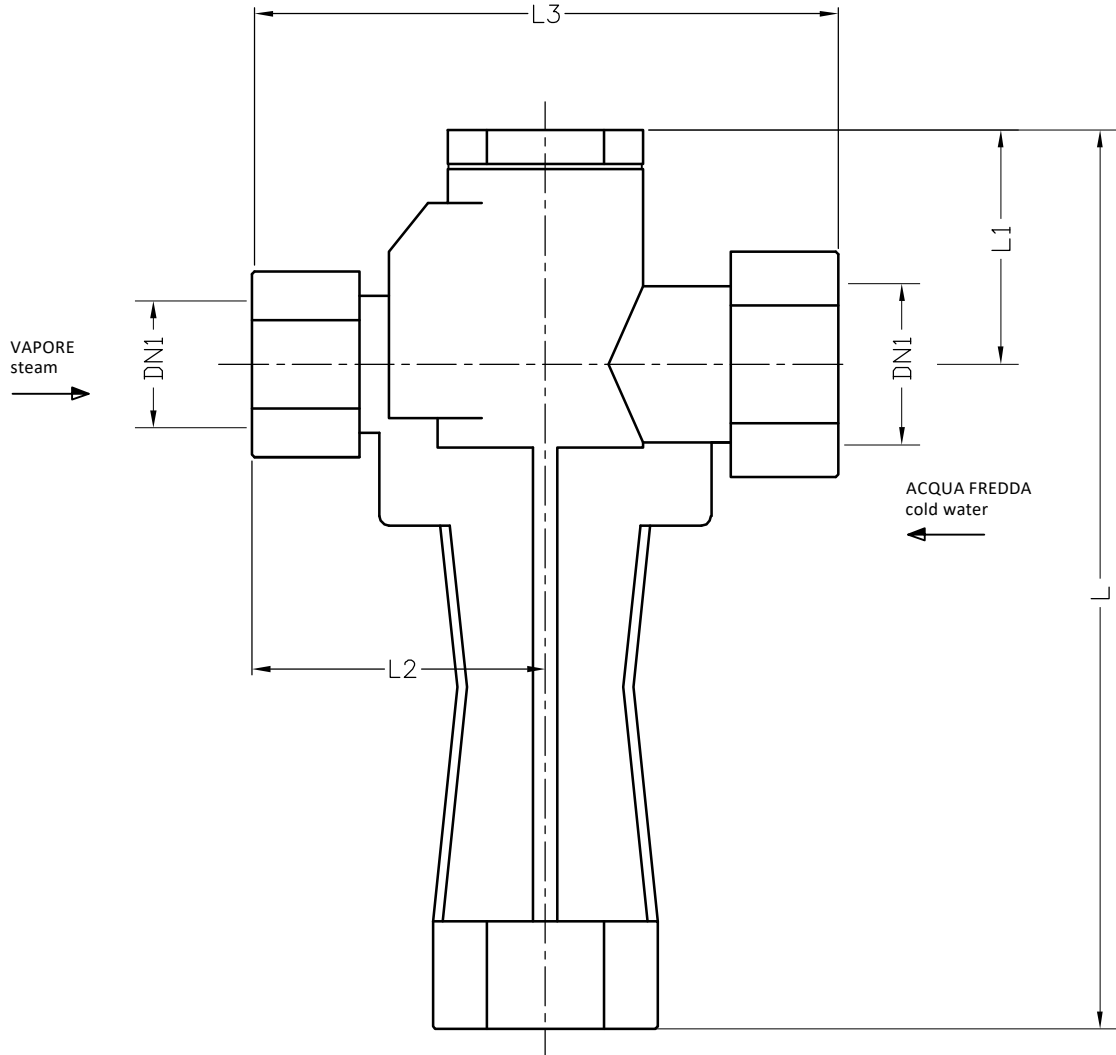


# MISCELATORE Serie 0093 - Mixer 0093 Series

DISEGNO (Drawing) N°  
**0093TB2-3S**

## DISEGNO D'ASSIEME - General Drawing

FOGLIO 1 DI 1  
Sheet of  
REV. 0  
JOB -



### MATERIALI - Materials

1	GUARNIZIONE - Gasket	ASBESTOS FREE	
1	UGELLO - Nozzle	BRONZE	
1	CORPO - Body	BRONZE	
POS.	Q.TY	DESCRIZIONE - Description	MATERIALI - Materials

### ATTACCHI - Connections

	DN1	DN2	DN3	L	L1	L2	L3	Peso (kg)
0093TB2S	3/4"	1"	1"	184	48	60	120	1.5
0093TB3S	1"	1"1/4	1"1/4	224	60	79	158	2.5

### DIMENSIONI - Dimensions mm

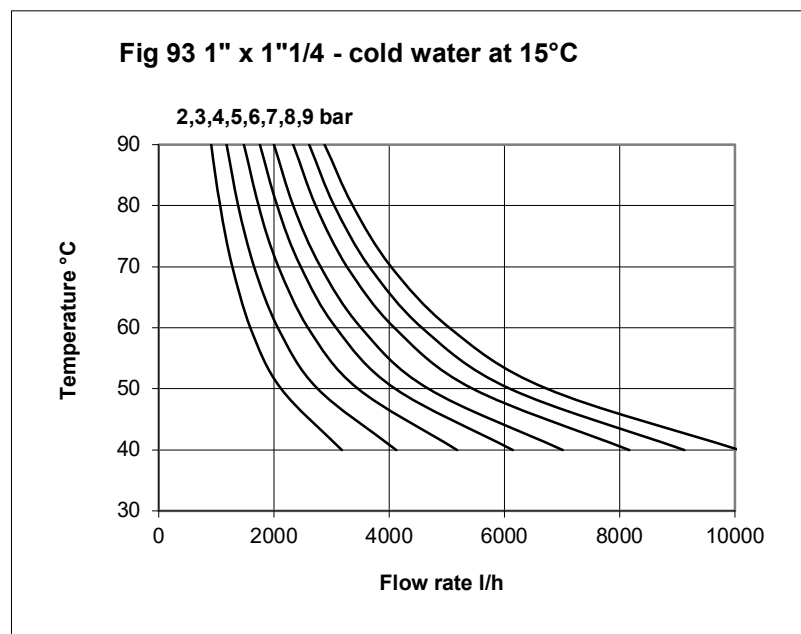
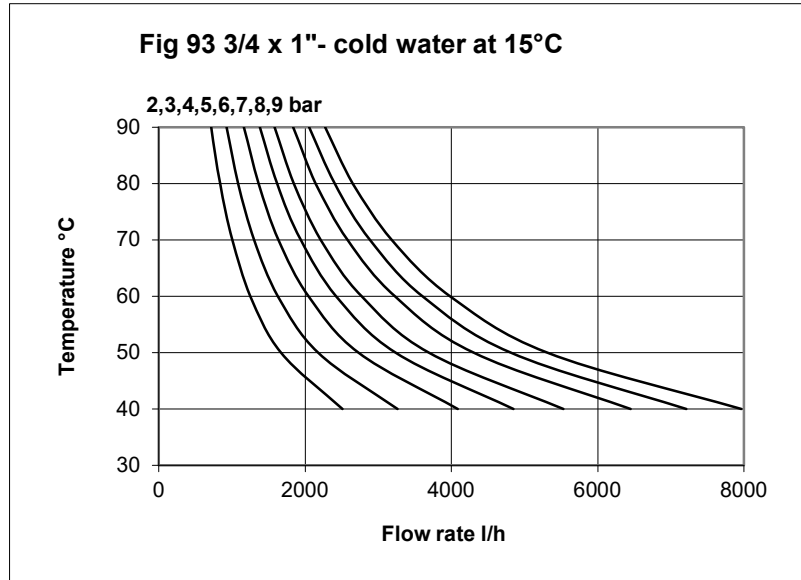
CLIENTE - Customer -  
IMPIANTO - Plant -  
SERVIZIO - Service -  
SIGLA - Item -  
ORDINE - Order -

### DATI GENERALI - General data

DATA SHEET N° -	TIPO -Type 0093TB2_3S	
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0	05/02/2019	INFORMATIVO - for information	av	AG
N°	DATE	REVISIONI - Revisions	DRAWN	APPR.

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