INLINE STEAM HEATER

Threaded connections **MIR type**

It is a simple but effective device for mixing process liquids by direct steam injection. Thanks to its simplicity of construction and low cost, it is widely used in many industrial applications where it is necessary to mix a cold liquid by using steam.

The MIR heater consists of a body and a diffuser made in a single piece inside which the removable nozzle is threaded. It also allows the handle of sludge with solids or semi-solids in suspension.

If used correctly, the mixer guaranties silent and vibration-free operation.

As there are no moving parts, it is maintenance free. For the installation, it is necessary to provide check valves upstream of the steam and water connections.

Operating principle **MIR type**

Due to pressurisation the liquid and the steam enter the mixer; the steam passes through the calibrated orifices of the mixing nozzle; the mixing causes the complete condensation of the steam and as a consequence the heating of the liquid.
Maximum operating values:

- Maximum operating values: steam pressure of 10 bar
- Steam pressure must be at least 0.3 bar higher than that of the water
- Maximum outlet temperature of water, at atmospheric pressure, is 90°C

In any case, water must have the necessary head to exit the heater with at least a pressure of 0.1 bar..
Our technical office will help you to size up the correct Mir heater according to the available pressure, flow rate and temperature of the steam and water.

Materials

Condensation nozzle and body in SS 316 or bronze

Other materials available on customer request.

Installation

Mir inline steam heaters can be installed in both horizontal or vertical pipe since their assembly does not affect their operation.

Sizes and connections **MIR type**

- MIR steam heater, connections: 1/2” BSP (steam) – 3/4” BSP (water) - Cod.: MIR 34
- MIR steam heater, connections: 3/4” BSP (steam) – 1” BSP (water) - Cod.: MIR 100
  Different size can be manufactured on request.

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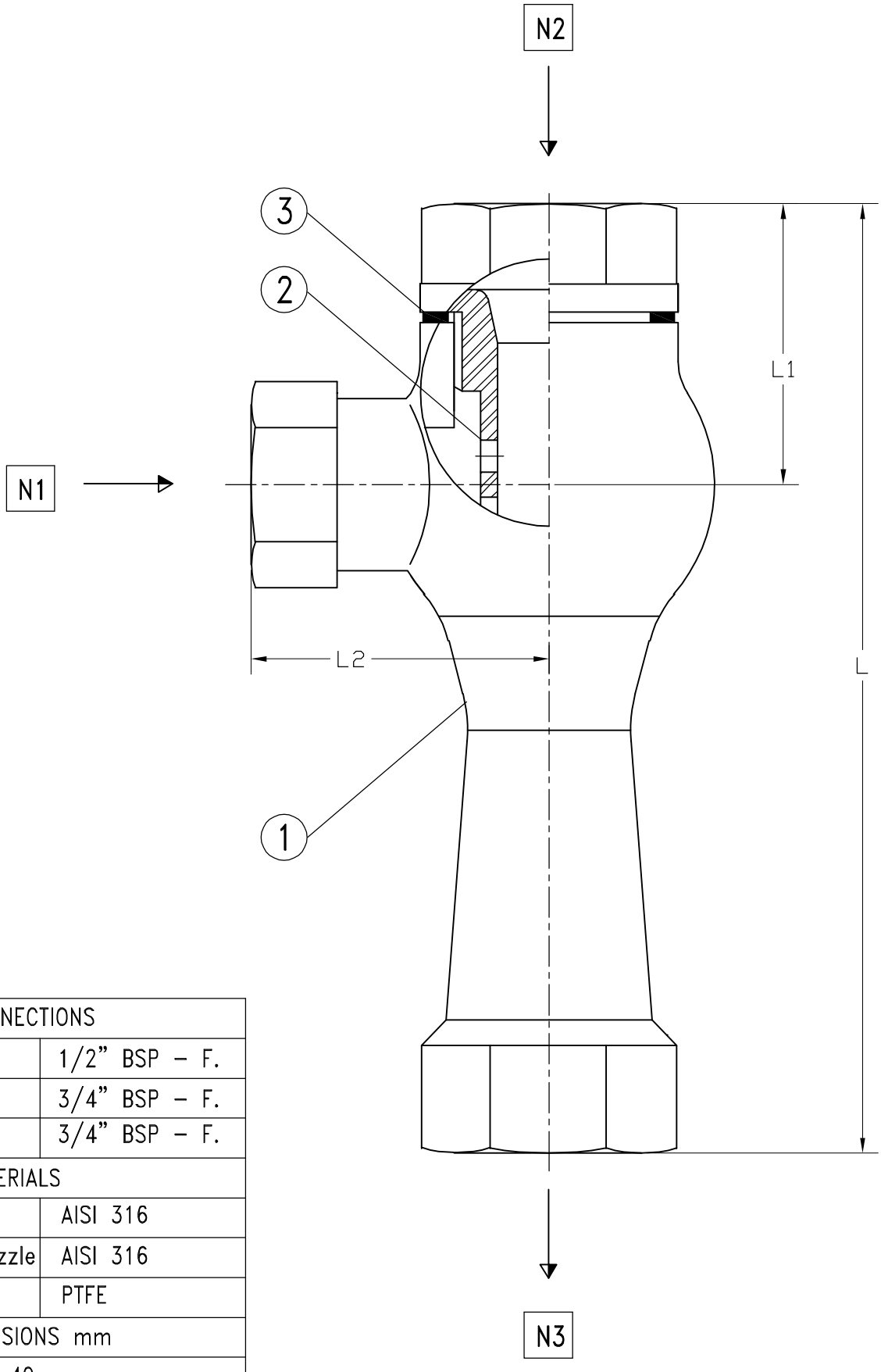
MIR STEAM HEATER

DIMENSIONS AND CONNECTIONS

DISEGNO (Drawing) N°	MIR 34
FOGLIO Sheet	1
DI of	1
REV.	0
DATE	13/11/2015



CONNECTIONS		
N1	Steam	1/2" BSP – F.
N2	cold water	3/4" BSP – F.
N3	hot water	3/4" BSP – F.
MATERIALS		
①	Head	AISI 316
②	Condens. nozzle	AISI 316
③	Gasket	PTFE
DIMENSIONS mm		
L1	40	
L2	41	
L	128	

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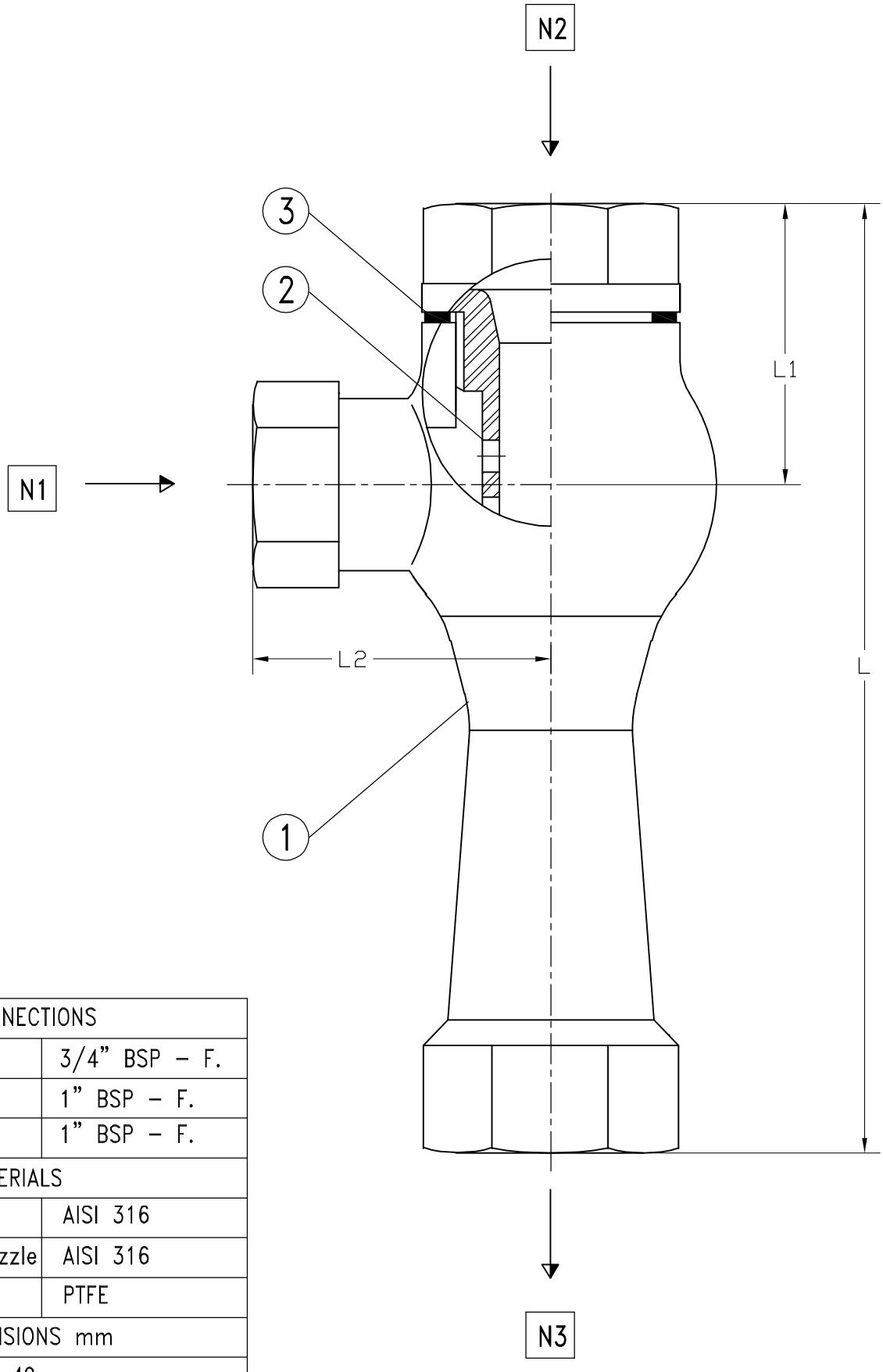
MIR STEAM HEATER

DIMENSIONS AND CONNECTIONS

DISEGNO (Drawing) N°	MIR 100
FOGLIO Sheet	1 DI of 1
REV.	0
DATE	13/11/2015



CONNECTIONS		
N1	Steam	3/4" BSP – F.
N2	cold water	1" BSP – F.
N3	hot water	1" BSP – F.
MATERIALS		
①	Head	AISI 316
②	Condens. nozzle	AISI 316
③	Gasket	PTFE
DIMENSIONS mm		
L1	49	
L2	52	
L	145	