

TRI Series

INAIL manifold and accessories

Technical Data Sheet



Description

The **TRI Series** instrument manifold is equipped with the instruments and accessories prescribed by the “R” regulations for central heating systems that use pressurised hot water with a temperature not exceeding 110°C and maximum overall power of the space heaters of over 35 kW. It is supplied complete with immersion shut-off thermostat with manual resetting, maximum pressure switch with manual resetting, minimum pressure switch with manual resetting, predisposition for safety valve connection, copper alloy pressure gauge valve with flange, 407D/SRN nickel-plated copper coil, pressure gauge, pocket for shut-off valve, test pocket, thermometer and 3-piece fittings.



TRI

INAIL instrument manifold and accessories as prescribed by the “R” regulations for boiler room safety and control. Steel manifold. PN 10 bar.

Max. temperature 110°C.

Complete with:

- INAIL approved **TS TU Series** immersion shut-off thermostat with manual resetting;
- **PRM Series** maximum pressure switch with manual resetting;
- **PRMIN Series** minimum pressure switch with manual resetting;
- INAIL compliant DN80 **TB-80/VE Series** thermometer;
- INAIL compliant **M1-ABS 63/R Series** pressure gauge;
- INAIL compliant 403/RF copper alloy pressure gauge valve with flange;
- **407D/SRN Series** nickel-plated copper coil;
- INAIL **G50 Series** test pocket;
- **NVFN Series** pocket for shut-off valve;
- predisposition for **VST Series** 1” safety valve connection (2 connections for flanged versions);
- 3-piece fittings, tailpieces for 1 to 1/4” version (threaded versions).

Type	Part No.	DN	Weight (Kg)
TRI	TRI114	1.1/4”	4.9
TRI	TRI112	1.1/2”	5.9
TRI	TRI200	2”	6.8
TRI	TRI065	65	13.3
TRI	TRI080	80	13.8

Technical features

Manifold body	Painted steel
Flanged connection (DN65 and DN80 models)	UNI EN 1092-1 PN16 flange (DN65 4 holes)

Features

Nominal pressure	PN10
Maximum temperature	110°C

Application

As an alternative to the individual safety, protection and control devices specified by the “R” regulations for central systems, the **TRI Series** manifold includes the instruments and accessories. The **NVFN Series** shut-off valve and the **VST Series** diaphragm safety valves must be selected on the basis of the power of the boiler.

Installation

The manifold must be installed on the flow pipe at a distance of no more than 1 metre from the boiler, and the fluid can flow through it in both directions. The manifold can be installed either vertically or horizontally, in line with the following recommendations.

Vertical installation

For vertical installation, the recommended configuration is as shown in Fig.1.

The inclined pocket must be positioned with the end facing up, so that the oil used for temperature measurement does not spill out.

This configuration also ensures that no drips from the safety valve fall on the electrical connections.

The pressure gauge loop must be bent using suitable tools, taking care not to change its diameter.

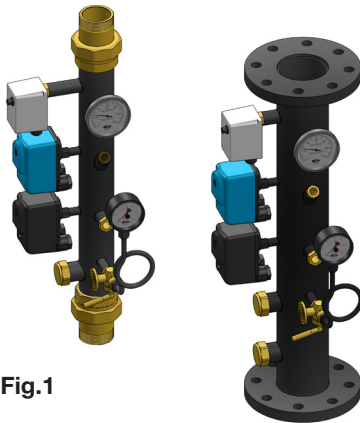


Fig.1

Horizontal installation

For horizontal installation, the recommended configuration is as shown in Fig.2.

The inclined pocket must be positioned in such a way that the oil used for temperature measurement does not spill out.

The manifold must be positioned in such a way that the thermometer is easy to read.

If this is not possible, you are advised to replace the thermometer with a **TBR-80/VE Series** thermometer with bottom connection (P/N PT8A507009).

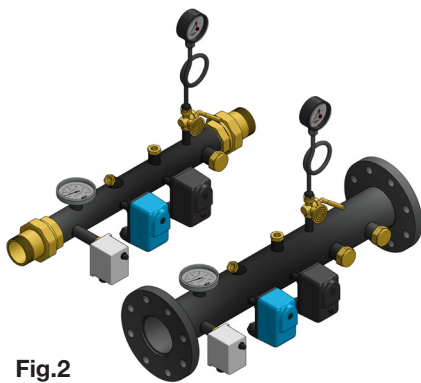


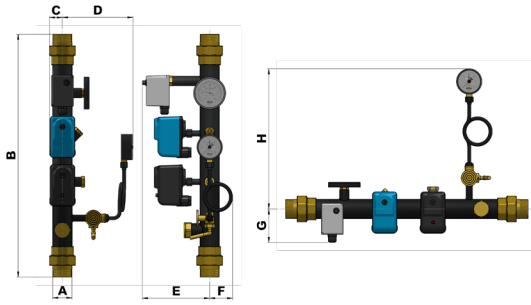
Fig.2

For both configurations, the pressure switches and thermostat must be positioned in such a way as to ensure compliance with the minimum curvature radius of the respective power cables. The position shown in the figures is indicative.

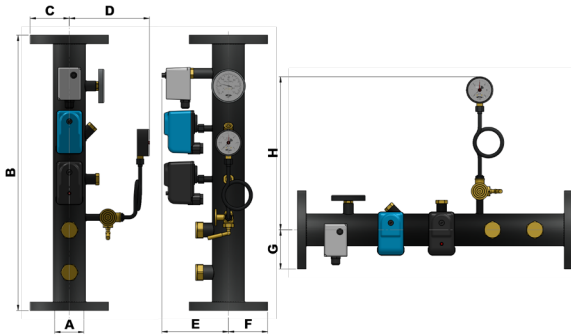
When installing the manifold and components, adhere to the positions indicated in the instruction manual and use suitable seals.

Only the brass caps are supplied complete with seals.

Overall dimensions (mm)



	A	B	C	D	E	F	G	H
TRI114	1 1/4"	556	32	175	167	57	83	347.5
TRI112	1 1/2"	602	32	175	167	57	83	347.5
TRI200	2.	644	41	182	163	57	83	354.5



	A	B	C	D	E	F	G	H
TRI065	DN65	650	92.5	189	157	92.5	92.5	361.5
TRI080	DN80	650	100	195	157.5	100	100	367.5

Specification text

TRI Series

INAIL instrument manifold and accessories **TRI Series** – WATTS brand – as prescribed by the “R” regulations for boiler room safety and control. Steel manifold. PN10 bar. Max. temperature: 110°C. 1.1/4” to 2” threaded connections and DN65 and DN80 flanged connections. Supplied complete with INAIL approved **TS TU Series** immersion shut-off thermostat with manual resetting, **PRM Series** maximum pressure switch with manual resetting, **PRMIN Series** minimum pressure switch with manual resetting, INAIL compliant **TB-80/VE Series** DN80 thermometer, INAIL compliant **M1-ABS 63/R Series** pressure gauge, INAIL compliant **403/RF Series** copper alloy pressure gauge valve with flange, **407D/SRN Series** nickel-plated copper coil, INAIL **G50 Series** test pocket, **NVFN Series** pocket for shut-off valve, and predisposition for **VST Series** safety valve connection.

The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.

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