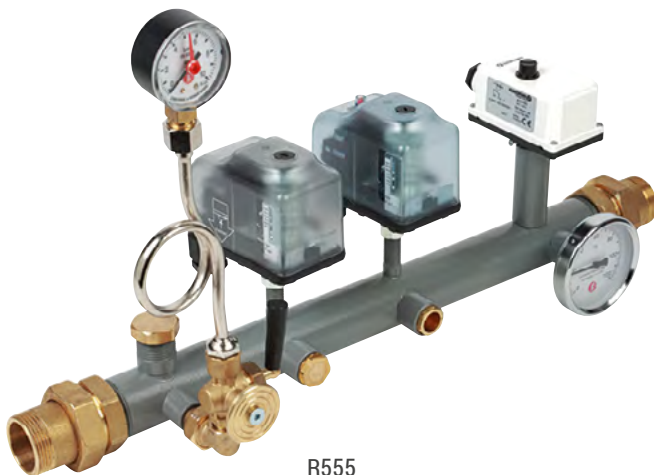
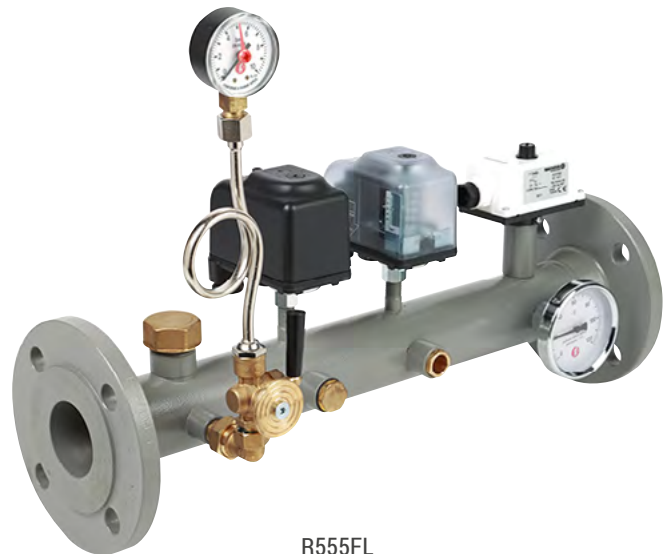


Instruments manifolds INAIL compliant for boiler room

Datasheet
0476EN  06/2025



R555



R555FL

Instruments manifolds for grouping together the various INAIL components envisaged by the "R" collection for boiler room safety, protection and checks. The manifolds are compact, and can be easily and quickly installed.

The instruments and fittings on the manifold are as follows:

- safety pressure switch with manual reset K374Y001
- minimum pressure switch with manual reset K374Y002
- safety thermostat with manual reset K373Y023
- pressure gauge R225I with damper coil R228A and pressure gauge holder cock R228I
- thermometer R540I
- housing R227
- a connection for the fuel shut-off valve probe N143
- one or two connections for the safety valve R140D (depending on versions)

The R140D safety valves and relative funnels must be ordered separately.

The end parts of the R555 are fitted with 3-piece couplings (code R18).

On R555FL, the flanges comply with UNI EN 1092-1 PN16.

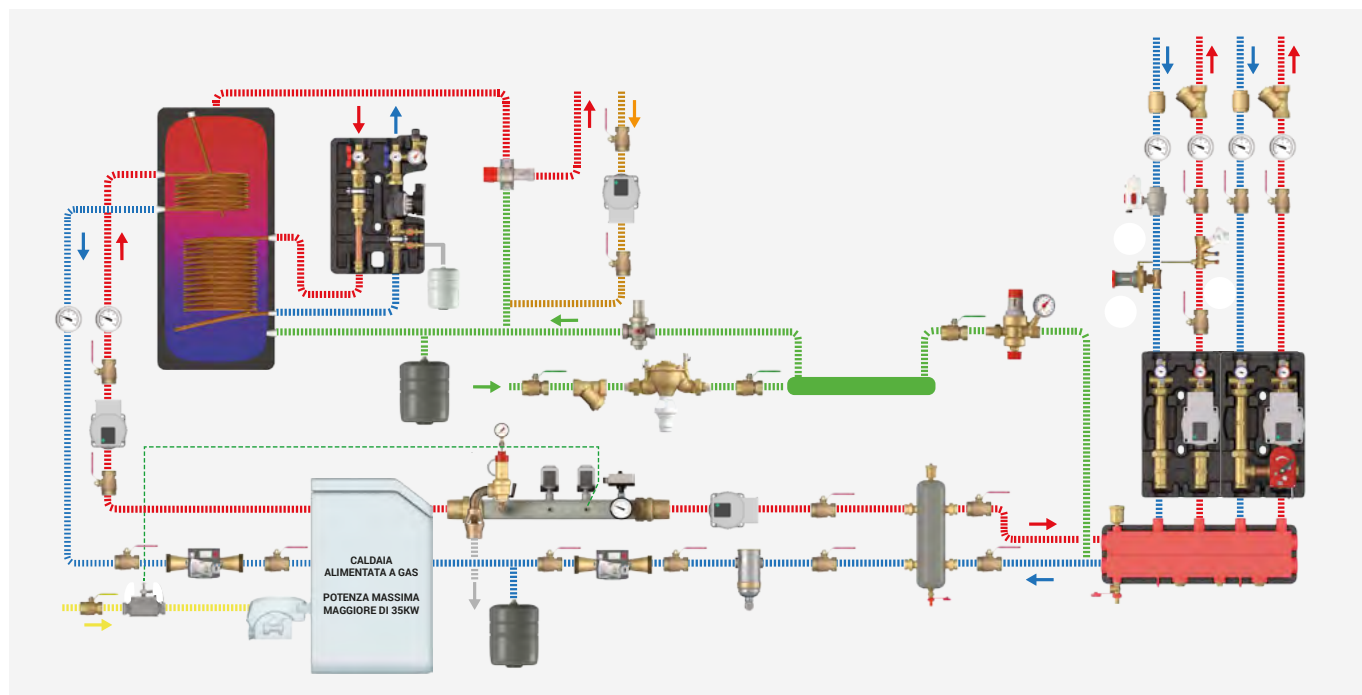
➤ Versions and codes

SERIES	PRODUCT CODE	SYSTEM CONNECTIONS		SAFETY VALVES CONNECTIONS		WEIGHT [kg]
		TYPE	DIMENSIONS	N°	DIMENSIONS	
R555	R555Y016	Threaded	G 1-1/4" M	1	3/4"	4,3
	R555Y017		R 1-1/2"	1	1"	5,3
	R555Y018		R 2"	1	1"	6,5
R555FL	R555Y105	Flanged	DN50	1	1"	8,3
	R555Y106		DN65	2	1-1/4" e 1"	10,4
	R555Y108		DN80	2	1-1/4"	12,9
	R555Y110		DN100	2	1-1/4"	16,1
	R555Y112		DN125	2	1-1/4"	20,6
	R555Y115		DN150	2	1-1/4"	24,3

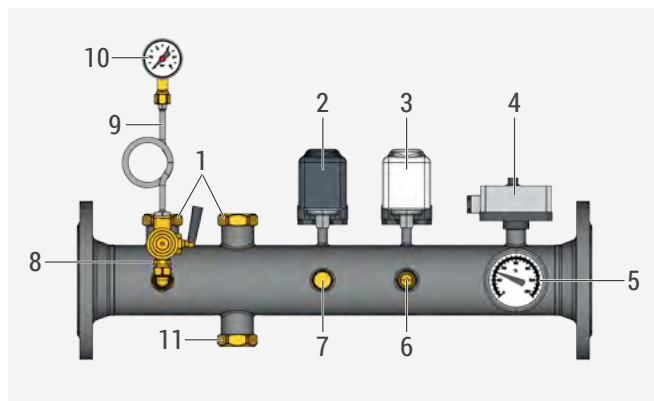
➤ Technical data

- Temperature range: 4÷110 °C
- Max. working pressure: 5 bar

➤ Example of application diagram



Components



Fitting for R140D safety valve connections INAIL compliant

- Nominal pressure: 10 bar
- Temperature range: 5÷110 °C
- Open overpressure: 10%
- Closure range: 20%

Minimum pressure switch with manual reset K374Y002 INAIL compliant

- Regulation range: 0,5÷1,7 bar
- Max. working pressure: 5 bar
- Differential for reset: 0,4 bar
- Factory set: 0,9 bar
- Tolerance: $\pm 0,1$ bar
- Fluid temperature range: 4÷110 °C
- Connection: 1/4" F (ISO 228)

Safety pressure switch with manual reset K374Y001 INAIL compliant

- Regulation range: 1÷5 bar
- Max. pressure: 5 bar
- Differential for reset: 0,4 bar
- Factory set: 3 bar
- Tolerance: $\pm 0,1$ bar
- Fluid temperature range: 4÷110 °C
- Connection: 1/4" F (ISO 228)

Safety thermostat with manual reset K373Y023 INAIL compliant

- Max. working pressure: 10 bar
- Differential for reset: 20 ± 5 K
- Limiter factory set: 100 °C (+0 °C / -6 °C)
- Tolerance: -6 K
- Max. head temperature: 80 °C
- Max. bulb temperature: 125 °C
- Thermal gradient: <1 K/min

Thermometer housing - R540I INAIL compliant

- Scale: 0÷120 °C
- Connection: 1/2" M rear

Thermometer housing - R227 INAIL compliant

- Connection: 1/2" M
- Length: 45 mm

Fitting for R143 fuel shut-off valve probe connection INAIL compliant

- Connection: 1/2"

3-way pressure gauge holder cock - R228I

- Max. working pressure: 16 bar
- Connection: 3/8"

Damper for pressure gauge - R228A INAIL compliant

- Max. working pressure: 25 bar
- Max. working temperature: 120 °C
- Conduit in nickel-plated copper

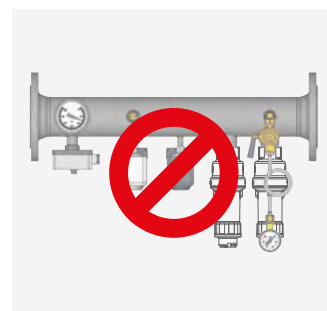
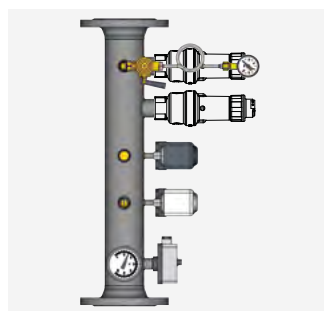
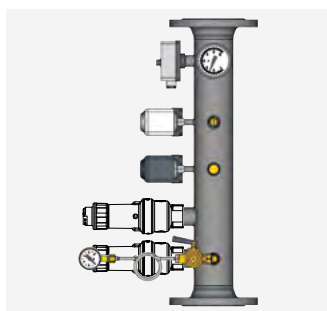
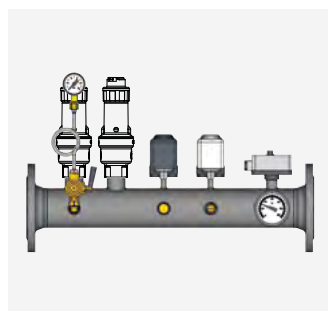
Pressure gauge - R225I INAIL compliant

- Scale: 0÷10 bar
- Connection: 3/8"

11 Additional 3/4" connection (only for R555Y110, 112, 115)

Installation

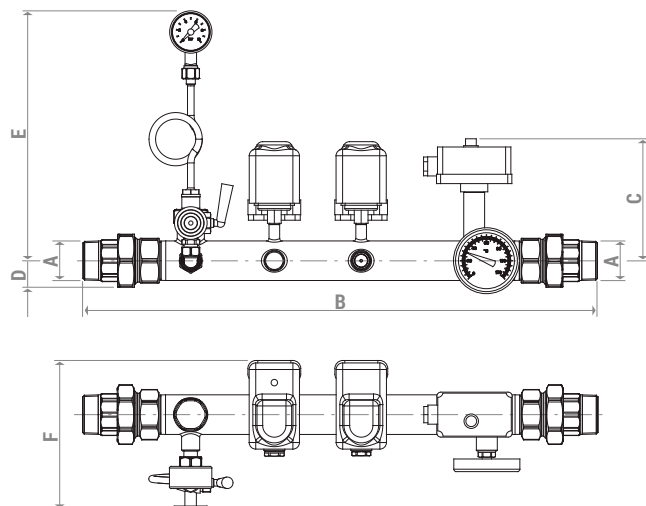
The R555, R555FL manifolds must be assembled on the boiler delivery circuit; the safety elements of the Instruments manifold must be no further than 1 m from the boiler itself.



NOTE. Channel the drainage from the R140D safety valves, using suitable R141 funnels (plus curved couplings R19 + R189 if necessary) to prevent any spray from reaching the electric components.

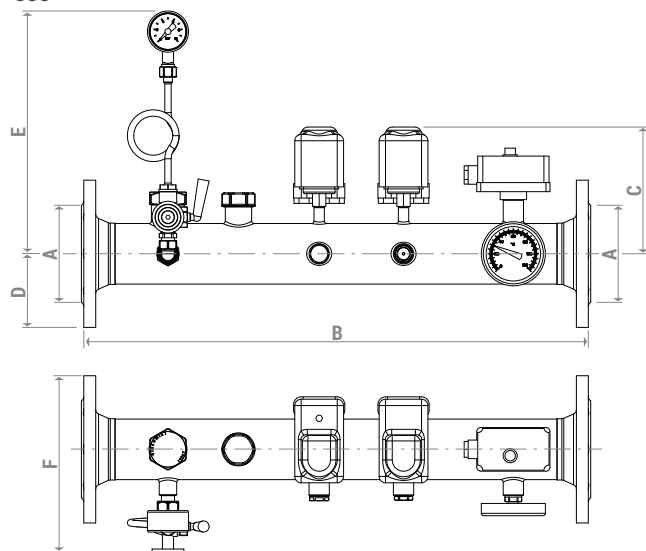
➤ Dimensions

R555



PRODUCT CODE	A [inch.]	B [mm]	C [mm]	D [mm]	E [mm]	E [mm]
R555Y016	G 1-1/4"M	566	151	52	305	178
R555Y017	R 1-1/2"	628	149	52	305	181
R555Y018	R 2"	647	152	52	305	187

R555FL



PRODUCT CODE	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	E [mm]
R555Y105	DN50	520	152	83	305	204
R555Y106	DN65	640	160	93	305	222
R555Y108	DN80	650	166	100	305	236
R555Y110	DN100	650	179	110	305	259
R555Y112	DN125	650	191	125	305	286
R555Y115	DN150	650	205	143	305	318

➤ Standards reference

"R" collection

INAIL "R" collection for boiler room safety, protection and checks: italian D.M. 1.12.75.

PED

European Pressure Equipment Directive (97/23/EC).

Product specification

R555

Threated instruments manifold in steel (from 1-1/4" to 2"), for grouping together the various INAIL components envisaged by the "R" collection for boiler room safety, protection and checks. Complete with: safety pressure switch with manual reset product code; minimum pressure switch with manual reset product code; safety thermostat with manual reset product code; pressure gauge with damper coil and pressure gauge holder cock; thermometer; control housing; a probe connection for the fuel shut-off valve; a connection for the safety valve; 3-piece couplings. Fluid temperature range 4÷110 °C. Max. working pressure 5 bar.

R555FL

Flanged instruments manifold in steel (from DN50 to DN150), for grouping together the various INAIL components envisaged by the "R" collection for boiler room safety, protection and checks. Complete with: safety pressure switch with manual reset product code; minimum pressure switch with manual reset product code; safety thermostat with manual reset product code; pressure gauge with damper coil and pressure gauge holder cock; thermometer; control housing; a probe connection for the fuel shut-off valve; a connection for the safety valve (two connections on the DN65 and DN80 versions). Flanges complying with UNI EN 1092-1 PN16. Fluid temperature range 4÷110 °C. Max. working pressure 5 bar.

 **Safety Warning.** Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

 **Package Disposal.** Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

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 **Product Disposal.** Do not dispose of product as municipal waste at the end of its life cycle. Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.