

RT pressure switches



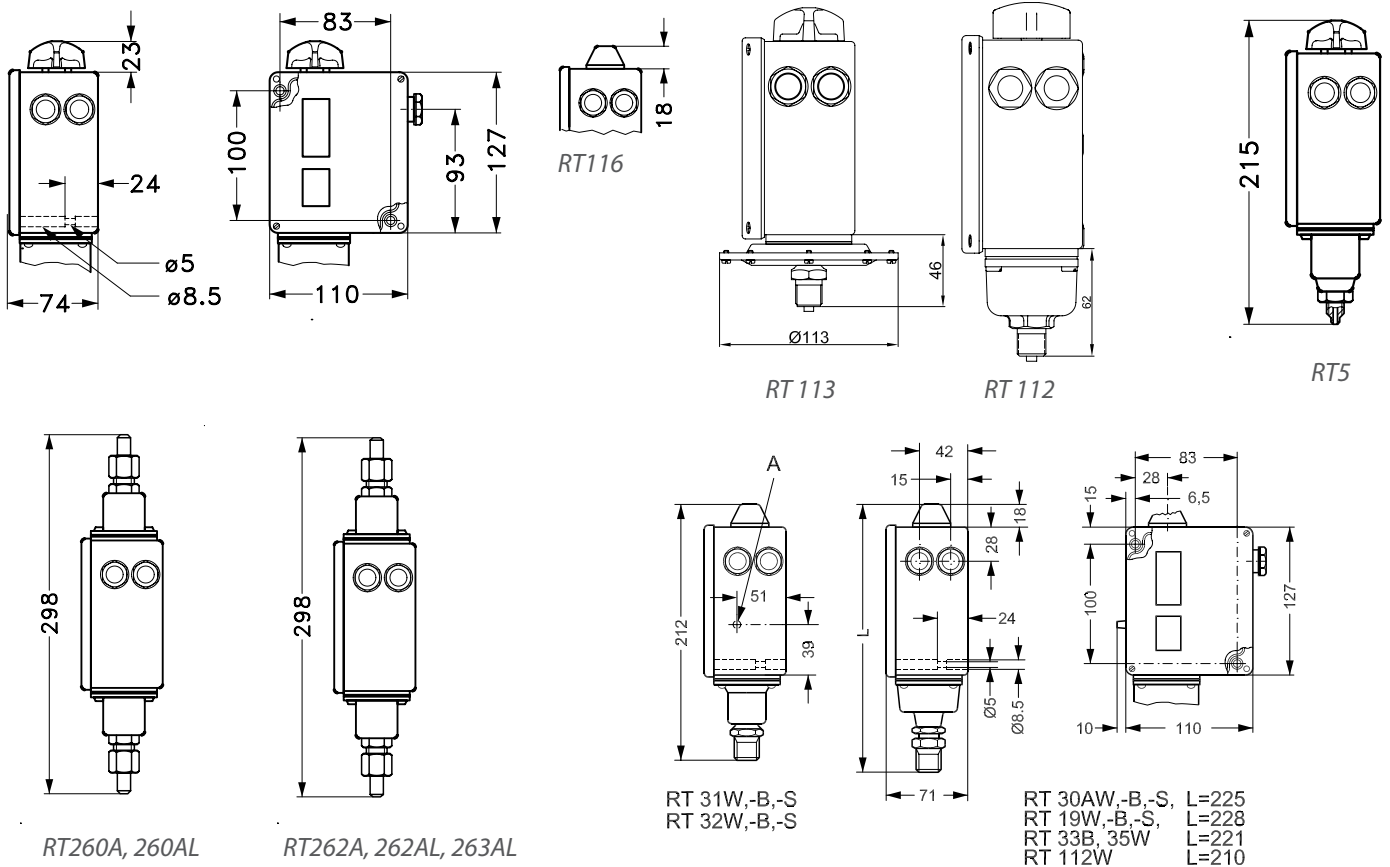
RT switches are used in general industrial, heating and marine sectors. The RT single pressure switches series consist of a variety of controls including neutral zone pressure switches and safety pressure switches for steam boiler plant.

RT switches have been in service for more than 70 years.

- Pressure range: -1 – 30 bar
- Replaceable contact system
- Also available with gold plated contact systems
- Fail-safe design
- Adjustable differential
- Adjustable neutral zone
- Enclosure IP66
- Available with TÜV approvals
- Available with min. and max. reset function (IP54)
- Also available as differential switch
- Available with all relevant marine approvals
- Versions for drinking water

Dimensions and weight:

Weight: Appr. 1 kg



All dimensions in millimetres

Approvals: CE marked in accordance with EN60947-4/-5. Relevant marine approvals.

RT pressure switches

Contact type:	Single pole double throw (SPDT)
Contact material:	Silver cadmium oxide (other contact types - see accessories)
Loads:	AC-1 ohmic 10A 400V AC-3 (motor) 4A 400V AC-15 (inductive) 3A 400V
Ambient temperature:	-50 – 70 °C
Media temperature:	-40 – 100 °C

RT pressure switches

Pressure connection: G 3/8 A

Type	Setting range P _e [bar]	Mechanical differential [bar]	Max. working pressure P _e [bar]	Reset		Code number
				Auto- matic	Min. Max.	
RT121	-1 – 0	0.09 – 0.4	7.0	✓		017-521566
RT113 ¹⁾	0 – 0.3	0.01 – 0.05	0.4	✓		017-519666
RT112	0.1 – 1.1	0.07 – 0.16	7.0	✓		017-519166
RT112	0.1 – 1.1	0.07	7.0		✓	017-519266
RT110	0.2 – 3	0.08 – 0.25	7	✓		017-529166
RT200	0.2 – 6	0.25 – 1.2	22	✓		017-523766
RT200	0.2 – 6	0.25	22		✓	017-523866
RT200	0.2 – 6	0.25	22		✓	017-523966
RT116	1 – 10	0.3 – 1.3	22	✓		017-520366
RT116	1 – 10	0.3	22		✓	017-520466
RT116	1 – 10	0.3	22		✓	017-519966
RT116 ²⁾	1 – 10	0.3 – 1.3	22	✓		017-520066
RT5	4 – 17	1.2 – 1.3	22		✓	017-509466
RT5	4 – 17	1.2 – 4	22	✓		017-525566
RT117	10 – 30	1 – 4	42	✓		017-529566

¹⁾Ambient temperature: -10 – 70 °C

²⁾Tamper proof setting knob

RT pressure switches with neutral zone

Pressure connection: G 3/8 A

Type	Setting range P _e [bar]	Mechanical differential [bar]	Adjustable neutral zone [bar]	Max. working pressure P _e [bar]	Code number
RT 200L	0.2 – 6	0.25	0.25 – 0.7	22	017L003266

RT pressure switches for steam plant

Pressure connection: G 1/2 A



Type	Setting range P _e [bar]	Mechanical differential [bar]	Max. working pressure P _e [bar]	Reset			Code number
				Automatic	Min.	Max.	

PED approved. For rising pressure. Ambient temperature: -40 – 70 °C

RT112W	0.1 – 1.1	0.07	7	✓			017-528266
RT35W	0 – 2.5	0.1	7	✓			017-528066
RT30AS	1 – 10	0.4	22			✓	017-518966
RT30AB	1 – 10	0.6	22			✓	017-518866
RT30AW	1 – 10	0.8	22	✓			017-518766
RT19B	5 – 25	1.0	42			✓	017-518266
RT19W	5 – 25	1.2	42	✓			017-518166

PED approval. For falling pressure. Ambient temperature: -40 – 70 °C

RT33B	0 – 2.5	0.1	7		✓		017-526266
RT31W	2 – 10	0.3 – 1	22	✓			017-526766
RT31B	2 – 10	0.3	22		✓		017-526866
RT31S	2 – 10	0.3	22		✓		017-526966

All RT pressure switches for steam plant are TÜV approved. Media temperature: -40 – 150 °C

Differential pressure switches

Pressure connection: G 3/8 A



Type	Setting range P _e [bar]	Mechanical differential [bar]	Operation range [bar]	Max. working pressure P _e [bar]	Code number
RT262A	0.1 – 1.5	0.1	-1 – 9	11	017D002566
RT262A	0 – 0.3	0.035	-1 – 10	11	017D002766
RT260A	0.5 – 4	0.3	-1 – 18	22	017D002166
RT260A	0.5 – 6	0.5	-1 – 36	42	017D002366
RT260A	1.5 – 11	0.5	-1 – 31	42	017D002466

Differential pressure switches with adjustable neutral zone

Pressure connection: G 3/8 A



Type	Setting range P _e [bar]	Mechanical differential [bar]	Adjustable neutral zone [bar]	Operation range [bar]	Max. working pressure P _e [bar]	Code number
RT263AL	0.1 – 1	0.05	0.05 – 0.23	-1 – 6	7	017D004566
RT260AL	0.5 – 4	0.3	0.3 – 0.9	-1 – 18	22	017D004866

Spareparts and accessories for RT pressure switches

Type	Version	Description	
Contact system	Standard	Snap action single-pole changeover switch (SPDT) with silver cadmium oxide contact. Fitted in all standard versions of type RT	017-403066
Contact system	Standard	Snap action single-pole changeover switch (SPDT) with gold plated (oxide free) contact surfaces. Increases cut-in reliability on alarm and monitoring systems etc.	017-424066
Contact system	Max reset	Snap action single-pole changeover switch (SPDT) with silver cadmium oxide contact. Designed for RT units performing max reset function.	017-404266
Contact system	Min reset	Snap action single-pole changeover switch (SPDT) with silver cadmium oxide contact. Designed for RT units performing min reset function.	017-404166



Type	Description	
Setting knob	Replacement. Pale grey Ral 7035	017-436366
Seal cap	Seal cap to replace setting knob so that setting can only be altered with tools (tamper proof seal cap). Black	017-436066
Screws	Seal screws for cover and seal cap	017-425166
Solder nipple	Pipe thread ISO 228/1, G 3/8 connector, nipple and AL washer (10 mm ext. / 8 mm int. diam). for soldering onto steel or copper tubing. Steel span of jaws: 22	017-436866
Reducer	Pipe thread ISO 228/1, G 1/2 A x G 3/8, steel, span of jaws 22	017-421966
Reducer	Pipe thread ISO 228/1, G 3/8 x 7/16 - 20 UNF reducer, washer, brass, span of jaws 22	017-420566
Adaptor	Pipe thread ISO 228/1, G 3/8 A x R 3/8 (ISO 7/1) brass, span of jaws 17	060-324166



Type	Description	
Damping coil	1 m. damping coil with 7/16 - 20 UNF connectors. Reducer code no 017-420566 is necessary if the damping coil is to be used with RT units with pipe thread: ISO 228/1, G3/8 connection.	060-019166
Damping coil	Pipe thread ISO 228/1, damping coil with G 3/8 connector and 1.5 m copper capillary tube. Standard washers are supplied	060-104766
Armoured damping coil	Pipe thread ISO 228/1, damping coil with G 3/8 connector and 1 m. copper capillary tube. Standard washers are supplied	060-333366
Air bell for liquid level control	Air bell for liquid level control RT113. 62 mm diam. ext x 204 mm length. Pipe thread ISO 228/1, G 3/8 connector and nipple (10 mm o.d./6.5 mm i.d.) for welding or brazing on to steel or copper tubing. Brass.	017-401366