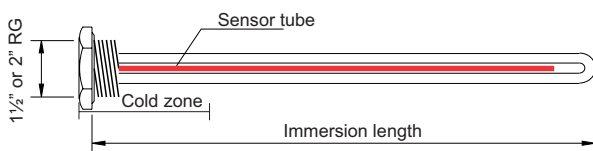




IMMERSION HEATERS

Immersion heaters* are used to heat a variety of mediums, e.g. water, glycol, oil, and other liquids. It is important that the immersion heater is fitted to the side or base of the vessel and that it is always covered by the substance. All immersion heaters have a pouring tube that is designed for a thermostat and thermofuse.

It is possible to install a junction box, for further information please see page 4 and 5.



IMMERSION HEATERS FOR WATER



Immersion heaters in nickel-plated copper for heating water in hot water tanks, open vessels, etc. The immersion heaters are available as standard with 3 x Ø8.5mm tubes or with 6 x Ø6.25 mm tubes and with 1½” or 2” RG, brass nipple. 90mm cold zone.

1½” BRASS NIPPLE, 3X400V:

Item no.	Power	Conn.	Immersion length	Surface load
92809839	2.25 kW	Y	215 mm	10.4 W/cm ²
92809847	3.00 kW	Y	300 mm	8.9 W/cm ²
92809854	4.50 kW	Y	405 mm	8.4 W/cm ²
92809862	6.00 kW	Y	535 mm	8.1 W/cm ²
92809870	7.50 kW	Y	655 mm	8.4 W/cm ²
92809888	9.00 kW	Y	733 mm	8.2 W/cm ²
92809896	10.00 kW	Δ	833 mm	8.2 W/cm ²

2” BRASS NIPPLE, 3X400V:

Item no.	Power	Conn.	Immersion length	Surface load
92804830	2.25 kW	Y	215 mm	10.4 W/cm ²
92804848	3.00 kW	Y	300 mm	8.9 W/cm ²
92804855	4.50 kW	Y	405 mm	8.4 W/cm ²
92804863	6.00 kW	Y	535 mm	8.1 W/cm ²
92800861**	6.00 kW	YY	315 mm	11.6 W/cm ²
92804871	7.50 kW	Y	632 mm	8.4 W/cm ²
92804889	9.00 kW	Y	775 mm	8.2 W/cm ²
92800887**	9.00 kW	YY	420 mm	11.9 W/cm ²
92804897	10.00 kW	Δ	832 mm	8.2 W/cm ²

** In contrast to the remaining immersion heaters in the range which have 3 tubes, these two immersion heaters have 6 tubes. The immersion length is thus reduced. Also available with cable and 55mm cold zone.

**Immersion heater is manufactured according to:
PED Catagory: Art 3.3
Design Pressure: 10 bar (PN10)
Fluid Group: II*



IMMERSION HEATERS FOR AGGRESSIVE LIQUIDS WITH BRASS NIPPLE

Immersion heaters in Incoloy 825 for heating aggressive liquids, chemicals and water containing minerals. The immersion heaters are available as standard with 3 x Ø8.5mm tubes and with 1½" or 2" RG, 55mm cold zone.

1½" BRASS NIPPLE, 3X400V:

Item no.	Power	Conn.	Immersion length	Surface load
92803030	2.25 kW	Y	175 mm	12.5 W/cm ²
92803048	3.00 kW	Y	235 mm	11.3 W/cm ²
92803055	4.50 kW	Y	335 mm	10.7 W/cm ²
92803063	6.00 kW	Y	435 mm	10.7 W/cm ²
92803071	7.50 kW	Y	525 mm	10.7 W/cm ²
92803089	9.00 kW	Y	600 mm	11.0 W/cm ²

2" BRASS NIPPLE, 3X400V:

Item no.	Power	Conn.	Immersion length	Surface load
92808039	2.25 kW	Y	175 mm	12.5 W/cm ²
92808047	3.00 kW	Y	235 mm	11.4 W/cm ²
92808054	4.50 kW	Y	335 mm	10.7 W/cm ²
92808062	6.00 kW	Y	435 mm	10.7 W/cm ²
92808070	7.50 kW	Y	525 mm	10.7 W/cm ²
92808088	9.00 kW	Y	600 mm	11.0 W/cm ²
92808096	12.00 kW	Y	730 mm	12.7 W/cm ²

IMMERSION HEATERS FOR AGGRESSIVE LIQUIDS WITH STAINLESS STEEL NIPPLE

Immersion heaters in Incoloy 825 for heating aggressive liquids, chemicals and water containing minerals. The immersion heaters are available as standard with 3 x Ø8.5mm tubes and with 1½" or 2" RG, 55mm cold zone.

1½" STAINLESS STEEL NIPPLE, 3X400V:

Item no.	Power	Conn.	Immersion length	Surface load
92815300	3.00 kW	Y	235 mm	11.3 W/cm ²
92815450	4.50 kW	Y	335 mm	10.7 W/cm ²
92815600	6.00 kW	Y	435 mm	10.7 W/cm ²
92815750	7.50 kW	Y	525 mm	10.7 W/cm ²
92815900	9.00 kW	Y	600 mm	11.0 W/cm ²

2" STAINLESS STEEL NIPPLE, 3X400V:

Item no.	Power	Conn.	Immersion length	Surface load
92820300	3.00 kW	Y	235 mm	11.4 W/cm ²
92820450	4.50 kW	Y	335 mm	10.7 W/cm ²
92820600	6.00 kW	Y	435 mm	10.7 W/cm ²
92820750	7.50 kW	Y	525 mm	10.7 W/cm ²
92820900	9.00 kW	Y	600 mm	11.0 W/cm ²
92821200	12.00 kW	Y	730 mm	12.7 W/cm ²



IMMERSION HEATERS FOR OIL

Immersion heaters in stainless steel (AISI 304) are designed for heating oil, e.g. in oil preheaters and for frost protection in oil tanks. The immersion heaters are available as standard with 3 x Ø8.5mm tubes and with 2" RG, brass nipple. 90mm cold zone.

2" BRASS NIPPLE, 3X400V:

Item no.	Power	Conn.	Immersion length	Surface load
92201904	0.50 kW	Y	335 mm	1.2 W/cm ²
92201912	0.75 kW	Y	485 mm	1.1 W/cm ²
92201920	1.00 kW	Y	660 mm	1.1 W/cm ²
92201938	1.50 kW	Y	700 mm	1.1 W/cm ²
92201946	2.00 kW	Y	1025 mm	1.0 W/cm ²
92602911	0.70 kW	Y	360 mm	1.5 W/cm ²
92602929	1.00 kW	Y	460 mm	1.6 W/cm ²
92602937	1.50 kW	Y	660 mm	1.6 W/cm ²
92602945	2.00 kW	Y	660 mm	1.6 W/cm ²
92602952	2.50 kW	Y	825 mm	1.5 W/cm ²
92602960	3.00 kW	Y	1025 mm	1.5 W/cm ²
92602978	4.00 kW	Y	1450 mm	1.5 W/cm ²
92202928	1.00 kW	Y	335 mm	2.4 W/cm ²
92202936	1.50 kW	Y	485 mm	2.3 W/cm ²
92202944	2.00 kW	Y	660 mm	2.1 W/cm ²
92202951	3.00 kW	Y	700 mm	2.1 W/cm ²
92202969	4.00 kW	Y	1025 mm	2.1 W/cm ²
92203934	1.50 kW	Δ	335 mm	3.6 W/cm ²
92203942	2.25 kW	Δ	485 mm	3.4 W/cm ²
92203959	3.00 kW	Δ	660 mm	3.2 W/cm ²
92203967	4.50 kW	Δ	700 mm	3.2 W/cm ²
92203975	6.00 kW	Δ	1025 mm	3.1 W/cm ²
92605914	2.10 kW	Δ	360 mm	4.6 W/cm ²
92605922	3.00 kW	Δ	460 mm	4.8 W/cm ²
92605930	4.50 kW	Δ	660 mm	4.8 W/cm ²
92605948	6.00 kW	Δ	660 mm	4.7 W/cm ²
92605955	7.50 kW	Δ	825 mm	4.6 W/cm ²
92605963	9.00 kW	Δ	1025 mm	4.6 W/cm ²
92605971	12.00 kW	Δ	1450 mm	4.6 W/cm ²

IMMERSION HEATER GASKETS

Item no.	Description
10048999	for 1½" RG, Ø48 x Ø60 x 2 mm, max. 250°C
10060994	for 2" RG, Ø60 x Ø75 x 2 mm, max. 250°C

ACCESSORIES

Junction boxes and gaskets must be ordered separately. Note: even if you order a standard immersion heater, these accessories will not be supplied.

It is possible to freely combine the junction boxes, thermofuses and thermostats from our product range.

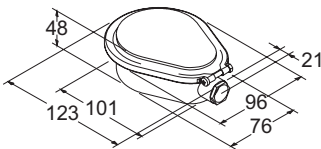
Read more about junction boxes on pages 4 to 7.

JUNCTION BOXES FOR IMMERSION HEATERS

Junction boxes are also available without holes for use in connecting heating elements, joining cables, etc.

Junction boxes type B - J are made of galvanized steel. In addition 2 junction boxes type B are also available in stainless steel AISI 304.

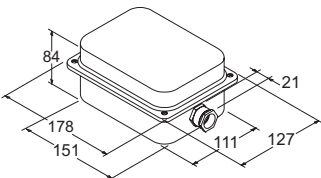
TYPE B - OVAL BOX



- IP55
- PG13.5

Item no.	Thread	Description
19905017	1½" RG	10mm cover
19905025	2" RG	10mm cover
19900554	1½" RG	stainless steel with 10mm cover
19900547	2" RG	stainless steel with 10mm cover
19905033	1½" RG	35mm cover
19905041	2" RG	35mm cover

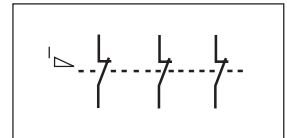
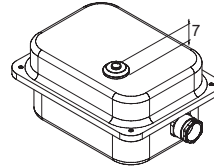
TYPE B - RECTANGULAR BOX



- IP65
- M20
- 30mm cover

Item no.	Thread
19905058	1½" RG
19905066	2" RG

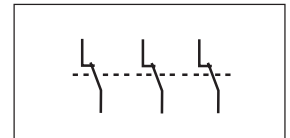
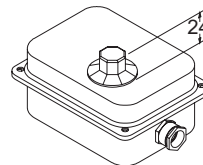
TYPE D - RECTANGULAR BOX



- IP44
- M20
- 3-pole thermofuse 110°C / +0 -10 K
- Manual reset - on the external reset button
- Switch: 3
- Contact rating: 20A / 400V

Item no.	Thread
19905090	1½" RG
19905108	2" RG

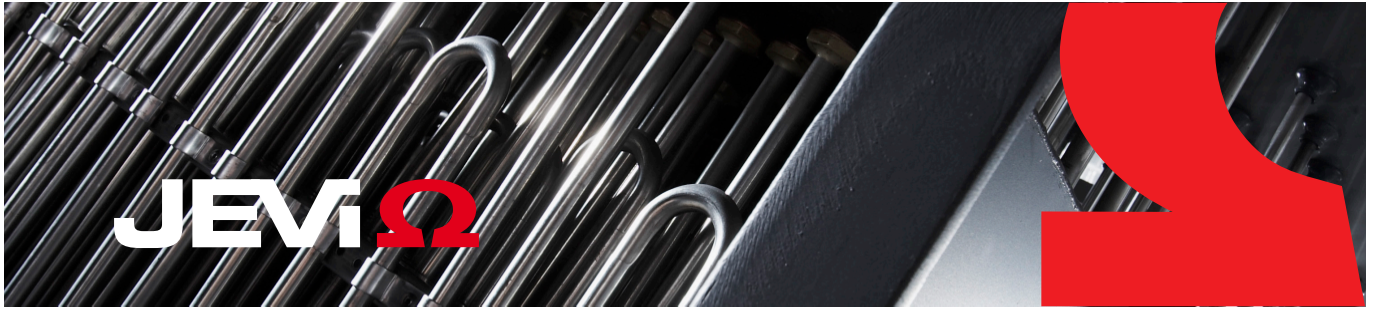
TYPE E - RECTANGULAR BOX



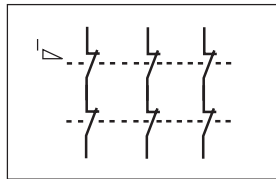
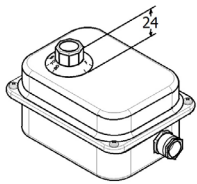
- IP22
- M20
- 3-pole operating thermostat 30-85°C / ± 3 K
- External knob
- Switch: 3
- Contact rating: 16A / 400 V

Item no.	Thread
19905116	1½" RG
19905124	2" RG

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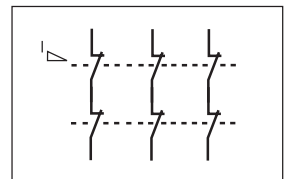
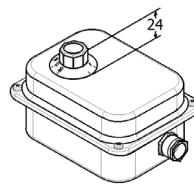
TYPE H - RECTANGULAR BOX WITH EXTERNAL KNOB



- IP22
- M20
- 3-pole operating thermostat 30-85°C / ± 3 K
- 3-pole thermofuse 110°C / +0 -9 K
- Switch: 3
- Contact rating: 20A / 400 V

Item no.	Thread
19905199	1½" RG
19905207	2" RG

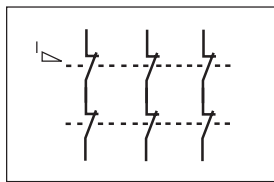
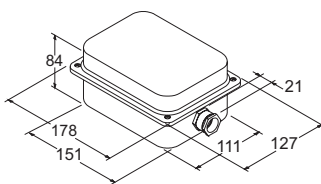
TYPE J - RECTANGULAR BOX WITH EXTERNAL KNOB



- IP22
- M20
- 3-pole operating thermostat 0-45°C / ± 2 K
- 3-pole thermofuse 76°C / +0 -8 K
- Switch: 3
- Contact rating: 20A / 400 V

Item no.	Thread
19900216	1½" RG
19900265	2" RG

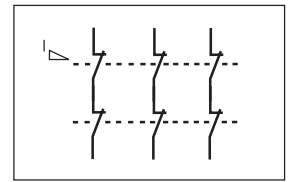
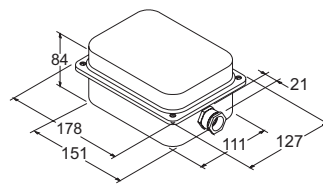
TYPE H - RECTANGULAR BOX WITH INSIDE SETTINGS



- IP65
- M20
- 3-pole operating thermostat 30-85°C / ± 3 K
- 3-pole thermofuse 110°C / +0 -9 K
- Switch: 3
- Contact rating: 20A / 400 V

Item no.	Thread
19900489	1½" RG
19900471	2" RG

TYPE J - RECTANGULAR BOX WITH INSIDE SETTINGS



- IP65
- M20
- 3-pole operating thermostat 0-45°C / ± 2 K
- 3-pole thermofuse 76°C / +0 -8 K
- Switch: 3
- Contact rating: 20A / 400 V

Item no.	Thread
19900083	1½" RG
19900067	2" RG

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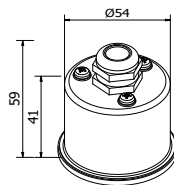
MAY 2023

Junction boxes type AR - MR are made of acid proof stainless steel AISI 316.

TYPE AR - ROUND BOX

- IP65
- M20

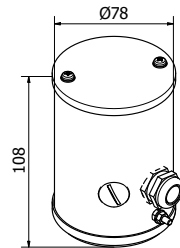
Item no.	Thread
19630050	1½" RG



TYPE BR - ROUND BOX

- IP65
- M20

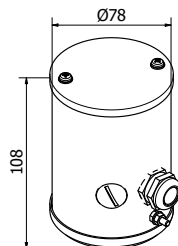
Item no.	Thread
19630001	1½" RG
19630002	2" RG



TYPE DR - ROUND BOX

- IP65
- M20
- 3-pole thermofuse 110°C / +0 -10 K
- Manual reset of thermofuse -by removing the lid
- Switch: 3
- Contact rating: 20A / 400V

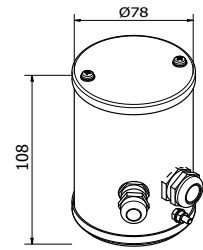
Item no.	Thread
19630003	1½" RG
19630004	2" RG



TYPE NR - ROUND BOX

- IP65
- M16 + M20
- 1-pole thermofuse 113°C / +0 -6 K
- Manual reset of thermofuse - by removing the lid
- Switch: 1
- Contact rating: 16A / 400V

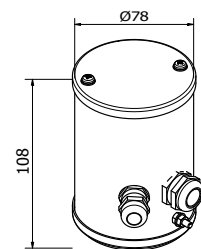
Item no.	Thread
19630013	1½" RG
19630014	2" RG



TYPE OR - ROUND BOX

- IP65
- M16 + M20
- 1-pole thermofuse 120°C / +0 -5 K
- Manual reset of thermofuse - by removing the lid
- Switch: 1
- Contact rating: 16A / 400V

Item no.	Thread
19630015	1½" RG
19630016	2" RG

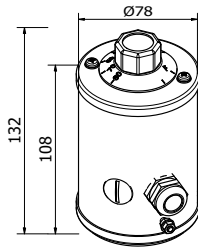


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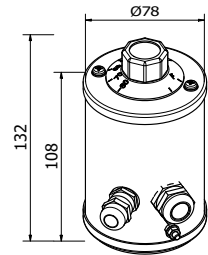
TYPE ER - ROUND BOX

- IP44
- M20
- 3-pole operating thermostat
- Switch: 3
- Contact rating: 16A / 400V



TYPE MR - ROUND BOX

- IP44
- M16 + M20
- 1-pole operating thermostat
- Switch: 1
- Contact rating: 16A / 400V



Item no.	Thread	Thermostat	Tolerance
19630005	1½" RG	30-85°C	± 3 K
19630006	2" RG	30-85°C	± 3 K
19630007	1½" RG	30-110°C	± 3 K
19630008	2" RG	30-110°C	± 3 K
19630009	1½" RG	0-40°C	± 2 K
19630010	2" RG	0-40°C	± 2 K

Item no..	Thread	Thermostat	Tolerance
19630017	1½" RG	30-85°C	± 3 K
19630018	2" RG	30-85°C	± 3 K
19630011	1½" RG	30-110°C	± 3 K
19630012	2" RG	30-110°C	± 3 K
19630019	1½" RG	0-40°C	± 2 K
19630020	2" RG	0-40°C	± 2 K