

Щупы температуры EX P1744, P1734

Технические характеристики

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BOLA Double Temperature Probes PT 100 Lemo® Compact EX

Material: PTFE-EX	Temperature resistance: from -200°C to +250°C	Temperature range from -50°C to +250°C	Chemical resistance: ++ very good	Conductivity: 10 ⁶ Ohm
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Product description:

Two independent sensors PT 100 in a stainless steel tube (1.4571) encapsulated with static dissipative PTFE-EX. Collar ring Ø 12mm, bore dia. 5 mm for earthing connection. The electric circuits are locally separated complying with European Standard EN 61010-2-010:2013. Connection by two couplings (type Lemo®, socket size 1, 4-wire-system) fixed directly at the end of the probe.

Typical response times:

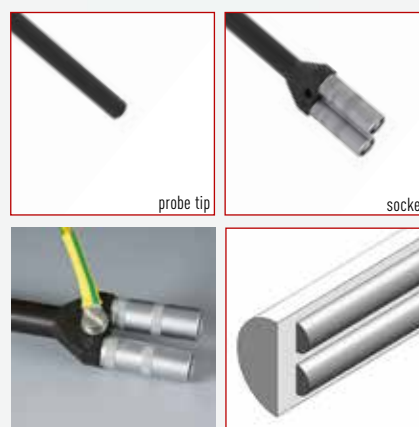
- » T 50: 20 - 24 s
- » T 90: 30 s

See page 352 for detailed explanation.

Usable length mm	Probe dia. mm	Total length mm	Number of sensors	Width of coupling mm approx.	Cat. No.:
300	8	400	2 x PT 100	27	P 1744-20
400	8	400	2 x PT 100	27	P 1744-23
500	8	400	2 x PT 100	27	P 1744-30

Applications:

- » avoiding of electric charging
- » parallel temperature measurement in aggressive liquids
- » double safety due to redundant systems
- » control function due to two independent sensors
- » Suitable for simultaneous temperature measurement and safety circuit as per the specifications of the standard DIN EN 61010-2-010 but only one NS/GL socket will be occupied, separately switched sensors.
- » ideal for built-in measurement cables



BOLA Temperature Probes PT 100 Lemo® Compact EX

Material: PTFE-EX	Temperature resistance: from -200 °C to +250 °C	Temperature range from -50 °C to +250 °C	Chemical resistance: ++ very good	Conductivity 10 ⁶ Ohm
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Product description:

One measuring sensor PT 100 in a stainless steel tube (1.4571) encapsulated with static dissipative PTFE-EX. Temperature probe Ø 8 mm, tip Ø 6 mm, collar ring Ø 12 mm. Electrostatic charges can be discharged by a grounding clamp (not included in the scope of delivery). Connection by a coupling (type Lemo®, socket size 1, 4-wire-system) fixed directly at the end of the probe.

Typical response times:

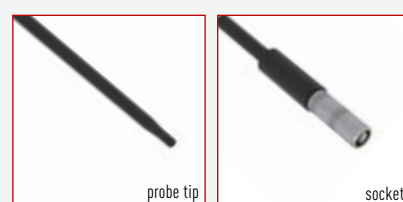
- » T 50: 20 - 24 s
- » T 90: 30 s

See page 352 for detailed explanation.

Usable length mm	Total length mm	Connector	Cat. No.:
200	270	socket, 4-wire-system	P 1734-10
300	370	socket, 4-wire-system	P 1734-15
400	470	socket, 4-wire-system	P 1734-20
500	570	socket, 4-wire-system	P 1734-25

Applications:

- » Avoiding electrostatic charging
- » temperature measurement in aggressive liquids
- » ideal for built-in measurement cables





All features at a glance:

- » Easy assembly
- » Flexibly expandable
- » Compatible with glass reactors with SCHOTT®-flat flange
- » Completely made of static dissipative PTFE-EX, universal chemical resistance
- » With connectors for the use of existing equipment with ground joint or GL thread
- » Also available in virgin PTFE (see page 267)

Selection and Assembly:

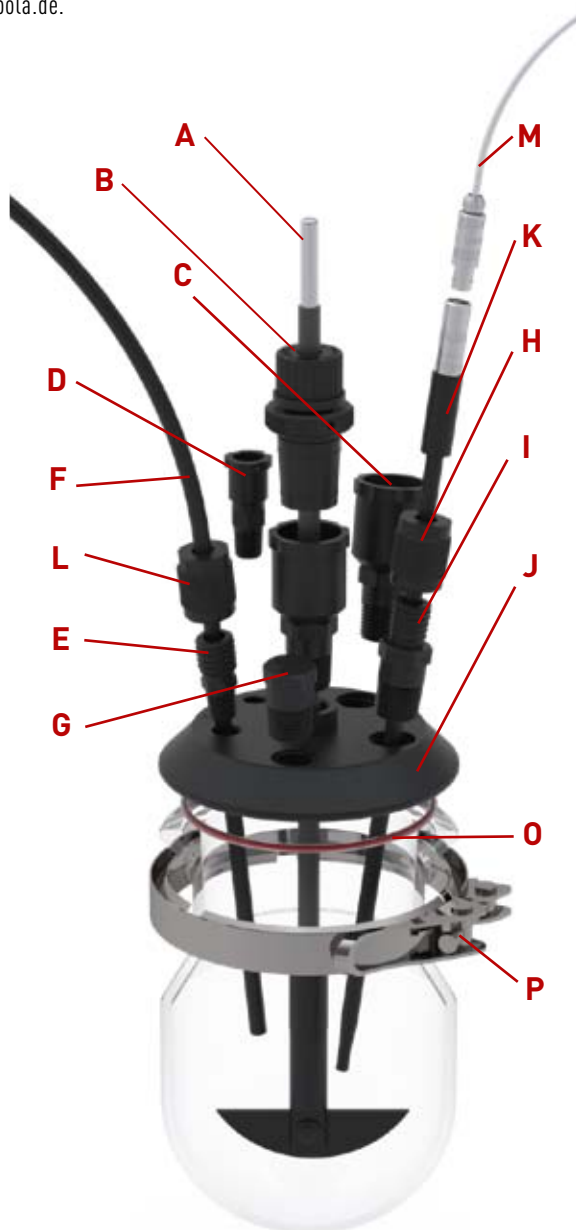
- » Choose a lid that fits onto the flange of your glass reactor, as well as the number of connectors needed.
- » Choose the necessary transition fittings according to NPT threads in the chosen lid.
- » Mount the transition fittings into the connectors of the reactor lid. The lid is now ready for service.
- » All fittings can be acquired separately and can be exchanged amongst each other depending on the NPT thread.
- » Ground the assembled lid by connecting an earthing cable to the bore M5x6 on the reactor lid.

Custom Manufacture – Lid and Fitting

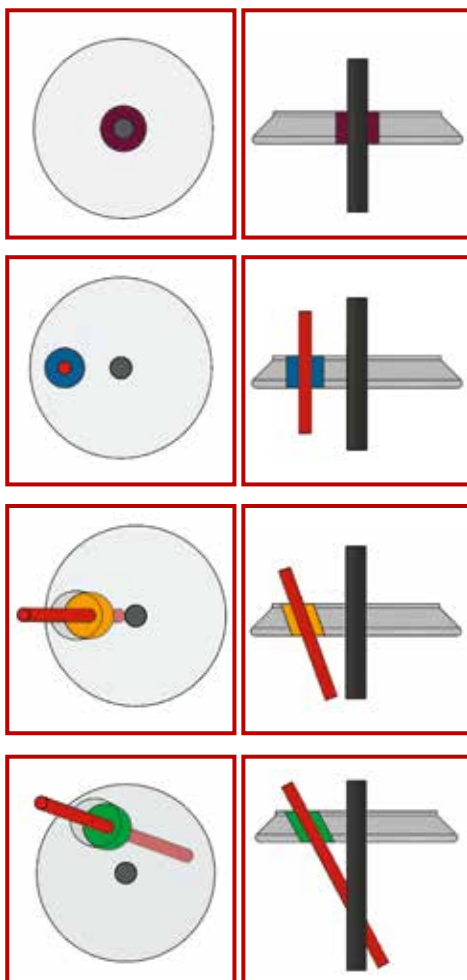
If we do not even have the correct reactor lid in our wide range, we are pleased to offer you a modified reactor lid or modified components accordingly. Just give us a call: +49 (0) 9346 9286-0 or send us a little sketch with the requested component by e-mail to info@bola.de.

Example: Reactor Lid DN 100 EX

- A** Moon-shaped Stirrer Shaft EX
Cat. No.: C 276-14
see page 158
- B** Stirrer Bearing EX
Cat. No.: C 423-10
see page 165
- C** Screw-in Connector with Ground Joint EX
Cat. No.: B 174-06
see page 164
- D** Screw-in Connector with Ground Joint EX
Cat. No.: B 174-02
see page 164
- E** Screw-in Connector GL EX
Cat. No.: B 172-32
see page 164
- F** Antistatic Tubing
Cat. No.: S 1827-50
see page 130



- G** Screw-in Stopper EX
Cat. No.: B 173-04
see page 164
- H** Laboratory Screw Joints EX
Cat. No.: D 841-62
see page 146
- I** Screw-in Connector EX
Cat. No.: B 172-18
see page 164
- J** Reactor Lid DN100 EX
Cat. No.: B 170-16
see page 163
- K** Temperature Probe Lemo Compact EX
Cat. No.: P 1734-20
see page 159
- L** Laboratory Screw Joint EX
Cat. No.: D 841-62
see page 146
- M** Extension Cable
Cat. No.: P 1724-38
see page 241
- O** O-Ring
Cat. No.: H 969-25
see page 270
- P** Quick Release Clamps
Cat. No.: B 277-03
see page 270

Thread connections in detail:**Centric thread connection (purple):**

For insertion of the stirrer bearing (see page 160).

Vertical thread connection with parallel alignment to the stirrer shaft (blue):

Components such as probes can be led into the reactor parallel to the stirrer shaft.

Inclined thread connection with direction straight to the stirrer shaft (yellow):

Components such as tubes and tubing can be led directly to the stirrer shaft to achieve an optimal mixing of the medium.

Inclined thread connection with direction aside the shaft (green):

Collisions of long components such as temperature probes are avoided as they are led aside the stirrer shaft by means of this thread connection.



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