

# *Guide to Bayonet Accessories*

# Contents

<b>Introduction</b> .....	<b>3</b>
<b>Assembling</b> .....	<b>5</b>
TIM8xx/TIM9xx/IONxxx/ABU52/ABU62/SAM7 .....	5
SAC850 .....	6
SAC950 .....	7
<b>Electrode Heads</b> .....	<b>8</b>
Mounting the Electrode Heads .....	9
Mounting the Bayonet Sockets .....	10
Mounting the Electrodes, Delivery Tips etc. ....	10
<b>Accessories</b> .....	<b>11</b>
Bayonet Electrode Heads .....	11
Bayonet Electrode Head Holder .....	11
Delivery and suction tips .....	12
Beakers .....	13
Choosing the right sample changer turntable for the beaker .....	14
Adapter for Bayonet Electrode Heads .....	15

# Introduction

The Bayonet Accessory range from Radiometer Analytical allows greater flexibility in the laboratory.

The bayonet electrode heads are designed to keep electrodes and delivery tips securely in place during use. This helps ensure reproducible results and safe handling of the electrodes. Thanks to the L-shaped slot on the adapters the electrodes fit into place in one easy movement.

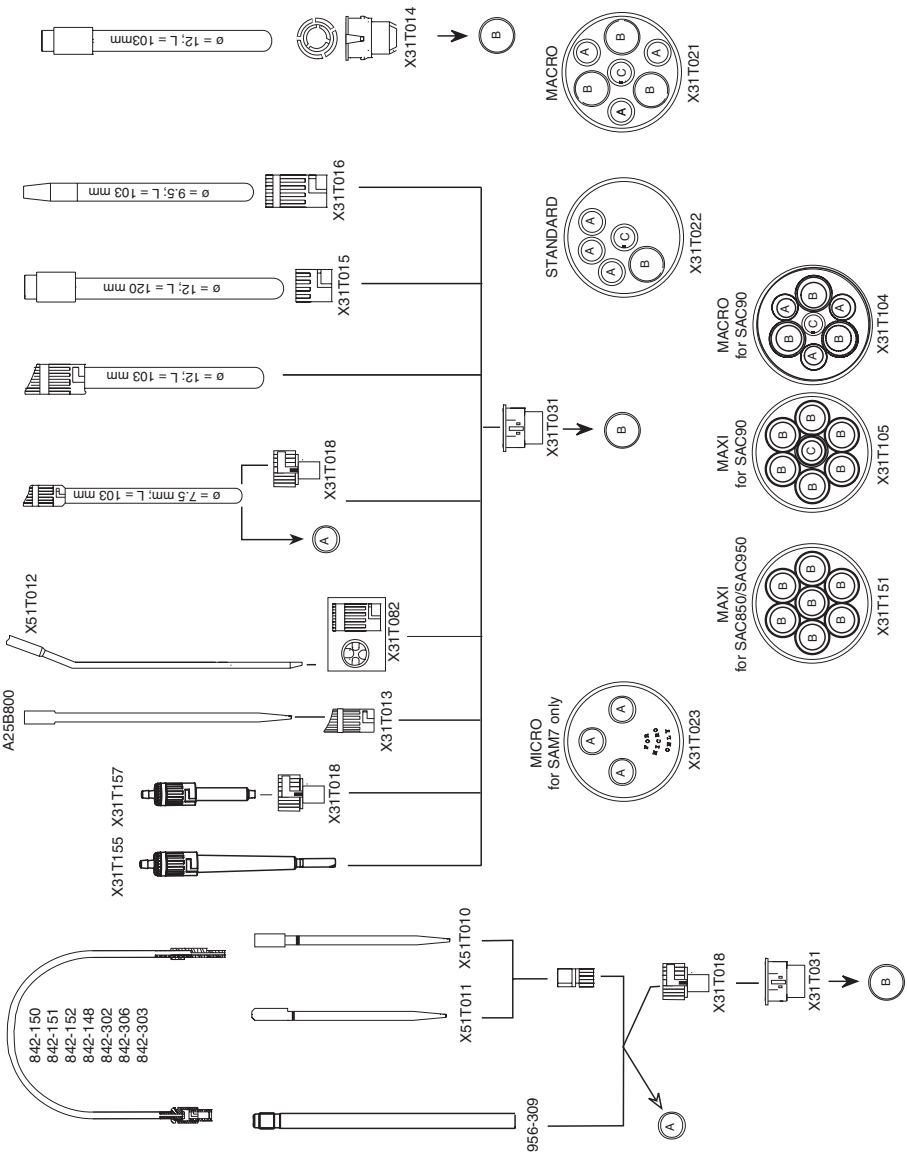
Various combinations of electrodes, temperature sensors and delivery tubes can be easily mounted onto one of the three electrode heads. Choose from Micro, Macro and Standard electrode heads depending on the number and size of the electrodes required for your analysis.

The bayonet accessories can be used with Radiometer Analytical sample changers and sample stands.

The overview on page 4 of this booklet illustrates which adapter to use with which electrode.

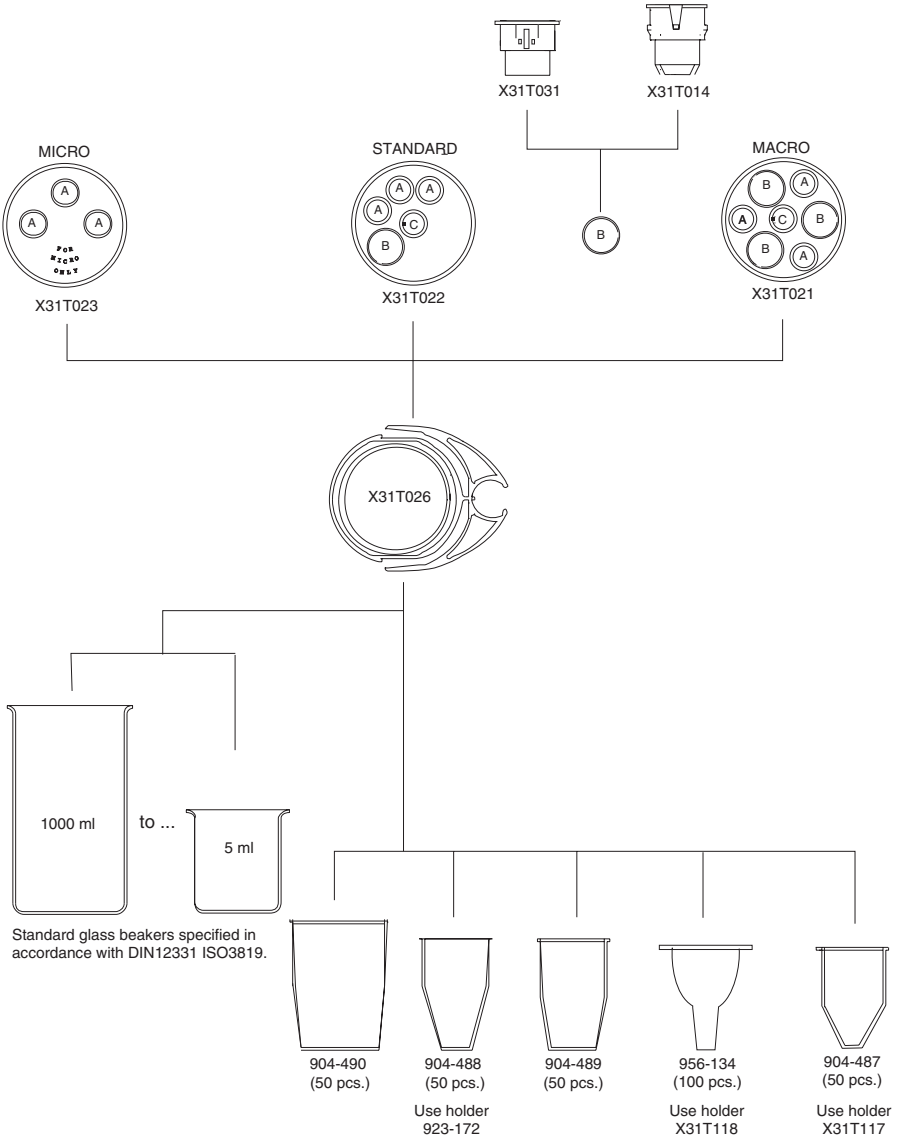
The drawings on pages 5 to 7 will help you choose the electrode holder and support for the sample changer or sample stand in use. The table on page 15 will help you select the right adapter for your electrodes.

The Bayonet Accessories are fully illustrated on pages 11 to 17.

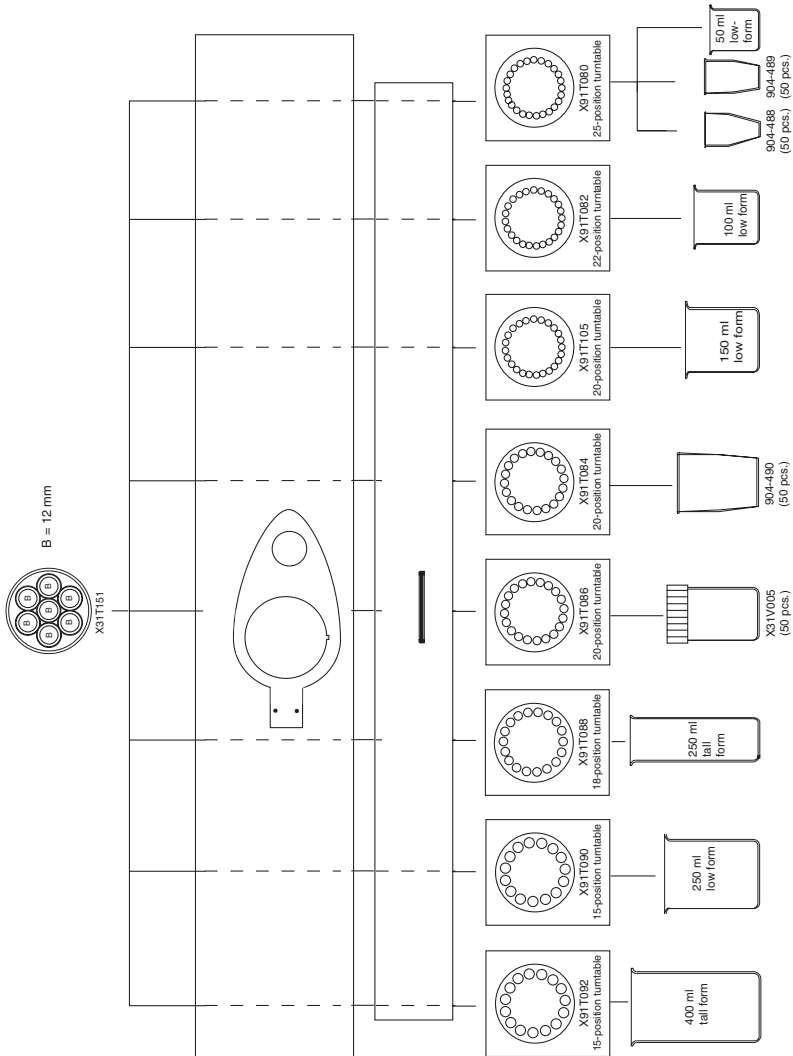


# Assembling

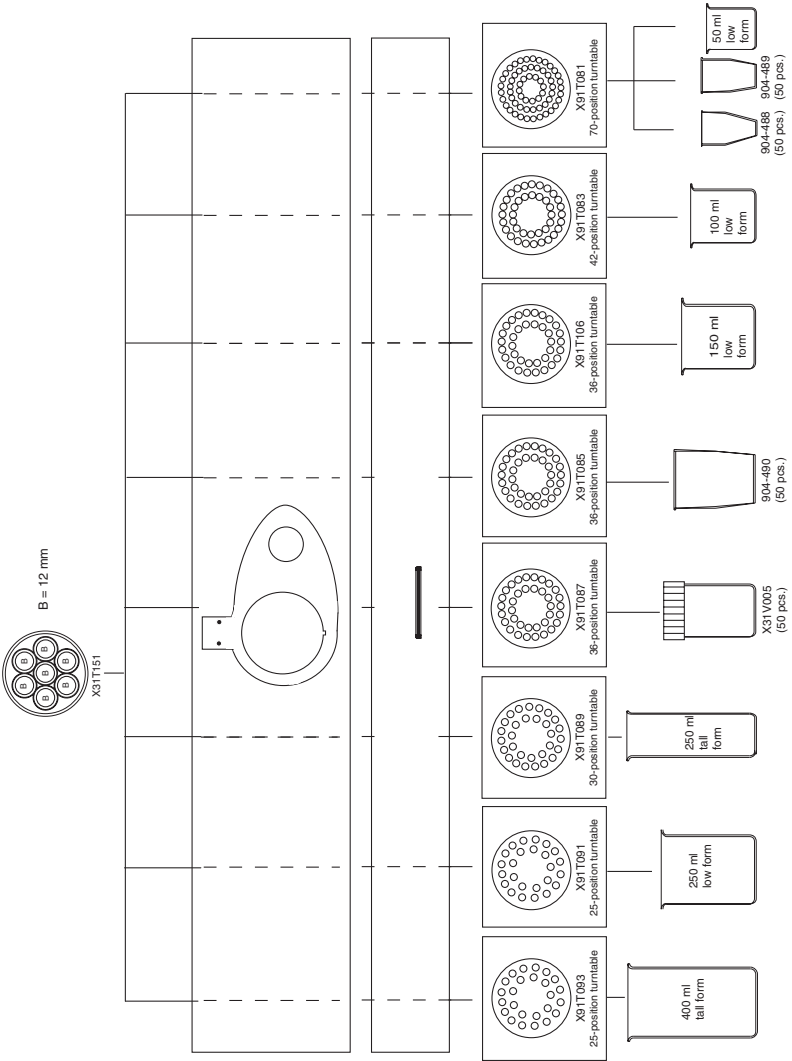
## TIM8xx/TIM9xx/IONxxx/ABU52/ABU62/SAM7



# SAC850

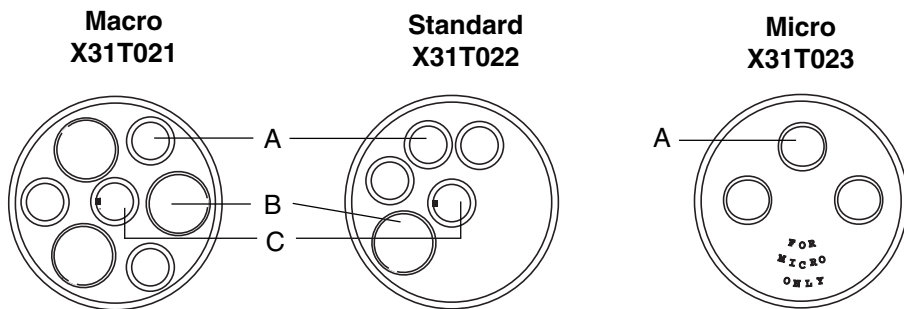


# SAC950



# Electrode Heads

Three types of Bayonet Electrode Heads are available:



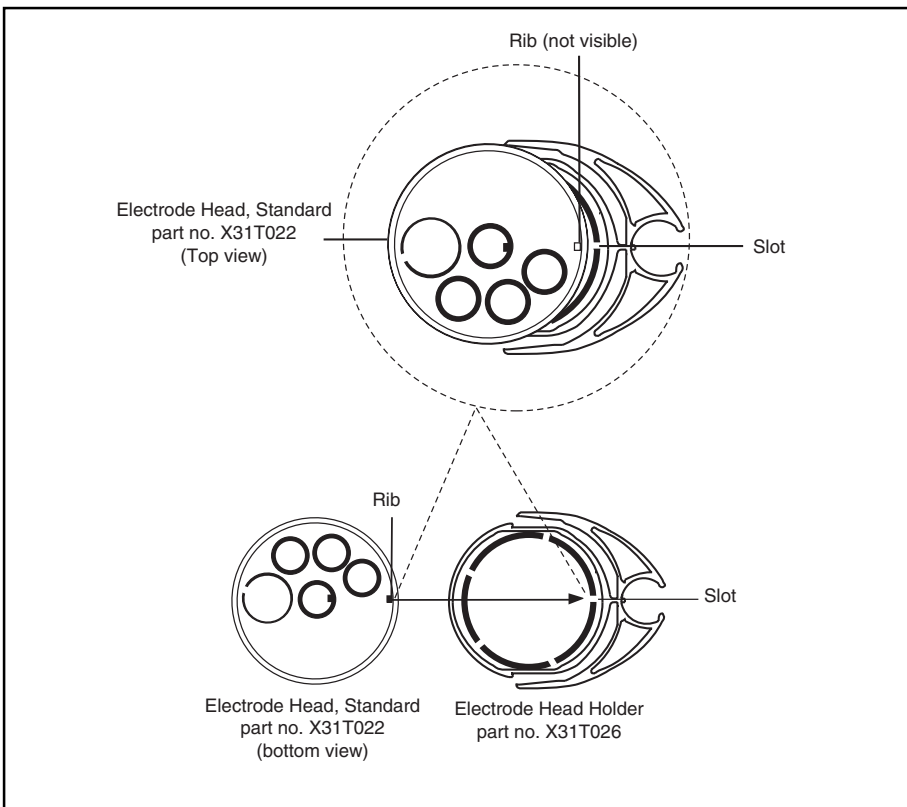
- A. 10.5 mm holes.
- B. 19.5 mm holes.
- C. 14.5 mm centre hole for mounting of optional stirrer.

Refer to the table on page 15 for information on the type of adapters to use.



## Mounting the Electrode Heads

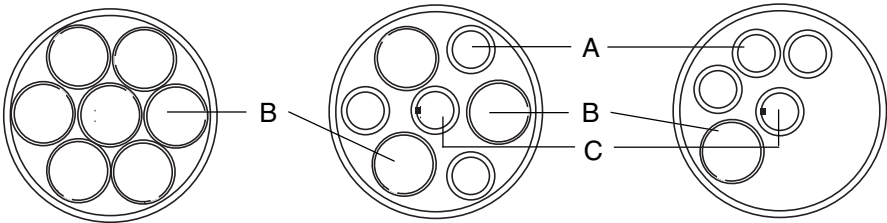
1. Choose the appropriate Bayonet Electrode Head for your application. Refer to the overview on page 4.
2. Select the corresponding Bayonet Electrode Head Holder. Refer to pages 5 to 7.
3. Mount the Bayonet Electrode Head onto the Bayonet Electrode Head Holder in the following way:
  - a. Line up the rib on the electrode head with the slot in the electrode head holder.
  - b. Push the electrode head firmly onto the holder.



*Fig. 1: Mounting the electrode head onto the electrode head holder*

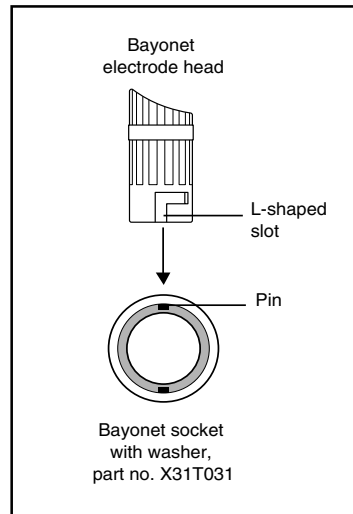
## Mounting the Bayonet Sockets

1. Select the appropriate bayonet sockets (X31T014 or X31T031). Refer to the overview on page 4.
2. Insert the socket into the type B holes and press firmly into place.



## Mounting the Electrodes, Delivery Tips etc.

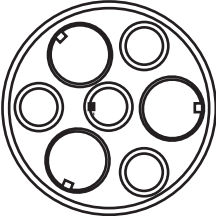
1. Mount the appropriate bayonet adapters onto the electrode(s), delivery tip(s), etc. Refer to the table on page 15.
2. Line up the pin on the bayonet socket with the L-shaped slot on the bayonet electrode head.
3. Slide the pin along the slot until fully inserted.
4. Twist the bayonet electrode head (clockwise) to lock the electrode into place.



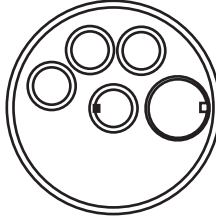
*Fig. 2: Mounting the electrodes, delivery tips etc.*

# Accessories

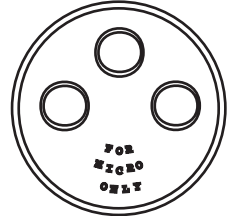
## Bayonet Electrode Heads



Macro,  
part no. X31T021

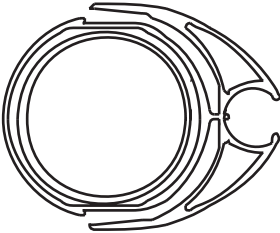


Standard,  
part no. X31T022



Micro,  
part no. X31T023

## Bayonet Electrode Head Holder



For SAM7/TIM8xx/TIM9xx/  
ABU52/ABU62  
part no. X31T026

## Delivery and suction tips



D4360, Delivery tip,  
burette > 5 ml  
part no. X51T010



D4361, Delivery tip,  
burette <5 ml  
part no. X51T011



D4362, Delivery tip,  
curved  
part no. X51T012



D4353, Delivery tip,  
Antidiffusion  
part no. 956-309



PAF-X3 Delivery tip,  
complete  
part no. A25B800



Addition Tip for SAC850/950  
X31T157

## Beakers

Type	Part no.	Min./max. volumes (ml) SACx50 (*)	Min. volume (ml) SAM7
1000 ml low form **			280
400 ml tall form **		300 - 360	125
250 ml tall form **		180 - 225	90
250 ml low form **		130 - 225	115
150 ml tall form **			70
150 ml low form **		80 - 135	60
100 ml low form **		50 - 90	45
50 ml low form **		30 - 45	30
25 ml low form **			7
5 ml low form **			2
180 ml PP Gosselin	X31V005, pack of 50	100 - 160	
40 - 100 ml PP	904-490, pack of 50 956-265 (each)	55 - 90	50
22 - 45 ml	904-489, pack of 50 956-178 (each)	22 - 45	20
8 - 25 ml	904-488, pack of 50 956-177 (each)	10 - 22	10
1 - 9 ml	904-487, pack of 50 956-176 (each)		1.5
0.5 - 5 ml	956-134, pack of 100 956-768 (each)		2

\* SACx50 = SAC850 or SAC950.








\*\* Standard glass beakers specified in accordance with DIN12331 ISO3819.

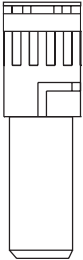

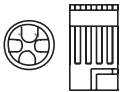
## Choosing the right sample changer turntable for the beaker

Sample changer Beakers	SAC850	SAC950
400 ml tall form *	15-pos. X91T092	25-pos. X91T093
250 ml tall form *	18-pos. X91T088	30-pos. X91T089
250 ml low form *	15-pos. X91T090	25-pos. X91T091
150 ml low form *	20-pos. X91T105	36-pos. X91T106
100 ml low form *	22-pos. X91T082	42-pos. X91T083
50 ml low form *	25-pos. X91T080	70-pos. X91T081
180 ml Gosselin	20-pos. X91T086	36-pos. X91T087
40 - 100 ml PP	20-pos. X91T084	36-pos. X91T085
22 - 45 ml	25-pos. X91T080	70-pos. X91T081
10 - 22 ml	25-pos. X91T080	70-pos. X91T081

\* Standard glass beakers specified in accordance with DIN12331 ISO3819.

## Adapter for Bayonet Electrode Heads

Part no.	Adapter	Description
X31T013		Bayonet Adapter for PAF-X3 and D4362 Delivery Tip
X31T014		Bayonet Socket for 103 mm screw cap electrode
X31T015		Bayonet Adapter for 120 mm screw cap electrode
X31T016		Bayonet Adapter for ø9.5 mm electrode type GK2401
X31T018		Bayonet Adapter ø12 mm to ø7.5 mm
X31T031		Bayonet Socket ø12 mm with washer, standard
X31T127		Stirring Shaft, PP, L = 96 mm with propellers 10 & 18 mm

Part no.	Adapter	Description
X31T032		Bayonet Stopper $\varnothing$ 12 mm
X31T033		Bayonet Stopper $\varnothing$ 7.5 mm
X31T082		Bayonet Adapter for 4 x X51T012 glass addition tip



***Accessories for titration of microvolumes***

1	Titration Vessel, PP, 1-9 ml (pack of 50)	904-487
1	Stirring Magnet diam. 10 mm, (pack of 10)	912-036
1	Titration Vessel, PP, 0.5-5 ml (pack of 100)	956-134
1	Bayonet Electrode Head, micro	X31T023
2	Bayonet Adapter for PAF-X3 and D4362 Delivery Tip	X31T013
1	Bayonet Electrode Head Holder	X31T026
1	Holder for 904-487 titration vessel	X31T117
1	Holder for 956-134 titration vessel	X31T118