making a difference



YOUR RESULTS - OUR PIPETTES

SAPPHIRE
Pipettes

greiner
BIO-ONE

DOMINIQUE DUTSCHER SAS



DOMINIQUE DUTSCHER SAS

Sapphire Pipettes by Greiner Bio-One combine state-of-the-art engineering and design in the ultimate instrument for modern liquid handling.

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SAPPHIRE PIPETTES
OPTIMUM ERGONOMICS AND PERFORMANCE

Sapphire Pipettes are a variable volume range of air-displacement pipettes designed and built to deliver optimal performance, ergonomics, and robustness in day-to-day use. The lightweight design coupled with a special mechanism reduces pipetting forces and makes our pipettes both comfortable and easy-to-use.

The contoured body shape allows for a relaxed grip whatever size your hand, and the 3-position tip ejector button makes pipetting comfortable for both left-handed and right-handed users.

Precision and accuracy is taken as read, with the Sapphire Pipettes performing well within the requirements specified in ISO 8655 forming the optimum solution for liquid handling when used in combination with pipette tips from Greiner Bio-One.

THE SAPPHIRE PORTFOLIO

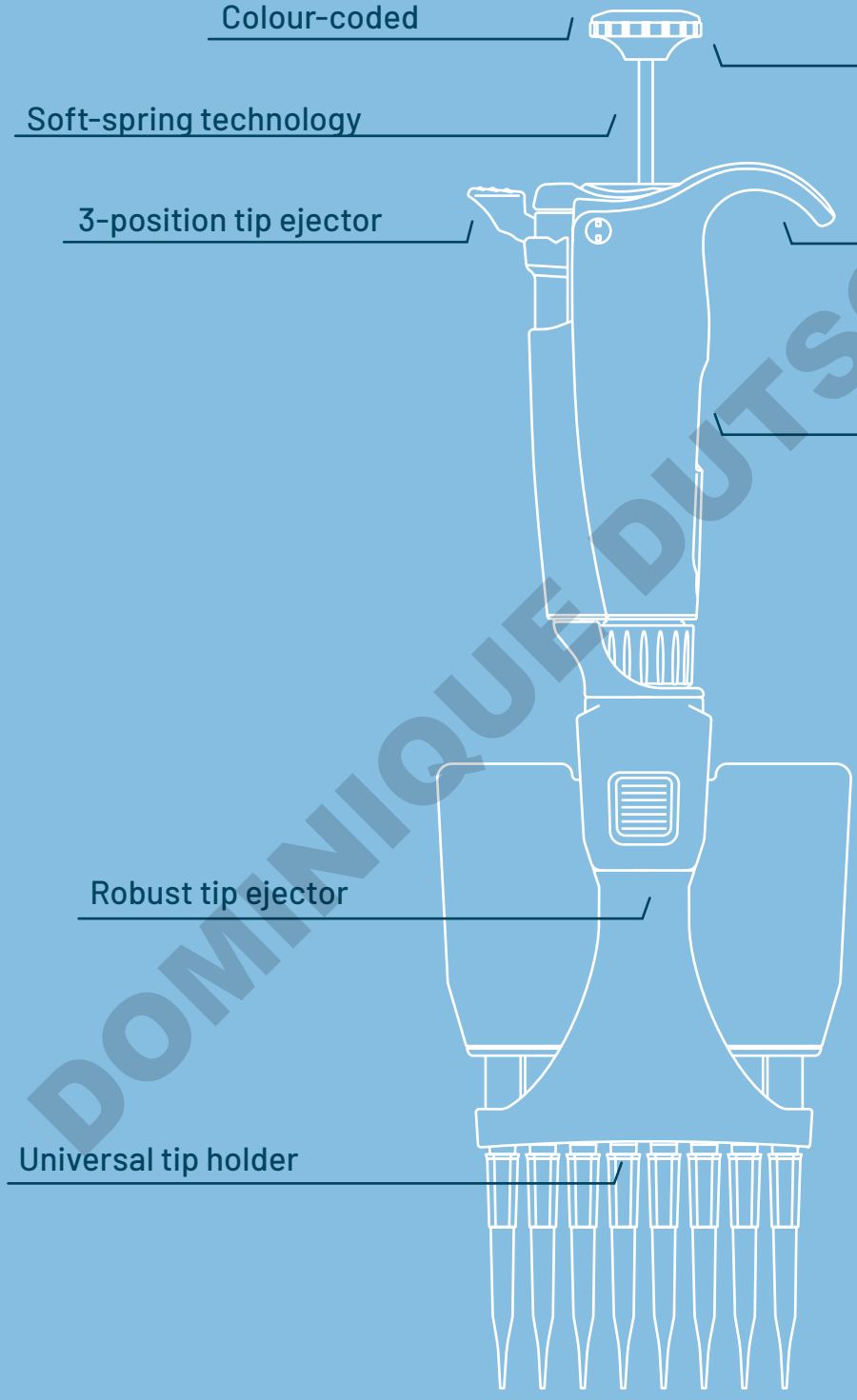
- **8 single-channel models with a volume range from 0.2 µl up to 10 ml**
- **8 multi-channel pipettes (8-channel and 12-channel) with a volume range from 0.5 µl up to 300 µl**



EACH PIPETTE

- **Has a unique serial number**
- **Is fully autoclavable**
- **Comes with a 3-year warranty**

PRODUCT FEATURES



KEY FACTS

- Ergonomic design for optimum comfort
- Lightweight
- Minimal pipetting forces
- Outstanding accuracy and precision
- Robust
- Fully autoclavable
- UV-resistant
- ISO 8655 compliant

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ERGONOMIC & CONVENIENT

- Lightweight, comfortable design
- Soft-spring technology for low pipetting forces
- Perfect shape for small and large hands alike
- 3-position tip ejector for both left-hand and right-hand users
- Long finger hook for a relaxed grip
- 360° adjustable head for multi-channel pipettes to allow work in every position





ACCURATE & PRECISE

- Large display for easy volume identification
- Freely rotating push button to adjust the volume and to avoid accidental volume changes
- High precision and accuracy
- Optimal performance with Greiner Bio-One pipette tips
- Compatible with other manufacturers' tips

RESISTANT & RELIABLE

- Durable materials and design
- UV-resistance over extended periods
- Fully autoclavable
- Unique serial number for easy tracking



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SAPPHIRE PIPETTES
PERFORMANCE DATA

The Sapphire Pipettes perform within ISO 8655 which is considered the basis for determining the accuracy and precision of air-displacement pipettes.

The Sapphire Pipettes have one of the lowest error tolerances on the market. Test results are generated using Greiner Bio-One Pipette Tips.

Single-Channel Pipettes

Model	Volume range	Volume	Sapphire Pipette Specifications				ISO 8655 Specifications			
			Systematic error		Random error		Systematic error		Random error	
	[µl]	[µl]	[µl]	[%]	[µl]	[%]	[µl]	[%]	[µl]	[%]
1 x 2	**0.2 - 2**	**0.2**	± 0.026	± 13.2	≤ 0.013	≤ 6.6	± 0.080	± 40.0	≤ 0.040	≤ 20.0
		2	± 0.033	± 1.7	≤ 0.015	≤ 0.8	± 0.080	± 4.0	≤ 0.040	≤ 2.0
1 x 10	**1 - 10**	**1**	± 0.028	± 2.8	≤ 0.013	≤ 1.3	± 0.120	± 12.0	≤ 0.080	≤ 8.0
		10	± 0.110	± 1.1	≤ 0.044	≤ 0.4	± 0.120	± 1.2	≤ 0.080	≤ 0.8
1 x 20	**2 - 10**	**2**	± 0.11	± 5.5	≤ 0.033	≤ 1.7	± 0.20	± 10.0	≤ 0.100	≤ 5.0
		20	± 0.20	± 1.0	≤ 0.066	≤ 0.3	± 0.20	± 1.0	≤ 0.100	≤ 0.5
1 x 100	**10 - 100**	**10**	± 0.39	± 3.9	≤ 0.11	≤ 1.1	± 0.80	± 8.0	≤ 0.30	≤ 3.0
		100	± 0.80	± 0.8	≤ 0.17	≤ 0.2	± 0.80	± 0.8	≤ 0.30	≤ 0.3
1 x 200	**20 - 200**	**20**	± 0.55	± 2.8	≤ 0.22	≤ 1.1	± 1.60	± 8.0	≤ 0.60	≤ 3.0
		200	± 1.60	± 0.8	≤ 0.33	≤ 0.2	± 1.60	± 0.8	≤ 0.60	≤ 0.3
1 x 1000	**100 - 1000**	**100**	± 3.3	± 3.3	≤ 0.7	≤ 0.7	± 8.0	± 8.0	≤ 3.0	≤ 3.0
		1000	± 8.0	± 0.8	≤ 1.7	≤ 0.2	± 8.0	± 0.8	≤ 3.0	≤ 0.3
1 x 5000	**500 - 5000**	**500**	± 13	± 2.6	≤ 3.3	≤ 0.7	± 40	± 8.0	≤ 15	≤ 3.0
		5000	± 33	± 0.7	≤ 8.8	≤ 0.2	± 40	± 0.8	≤ 15	≤ 0.3
1 x 10000	**1000 - 10000**	**1000**	± 33	± 3.3	≤ 6.6	≤ 0.7	± 60	± 6.0	≤ 30	≤ 3.0
		10000	± 60	± 0.6	≤ 17.6	≤ 0.2	± 60	± 0.6	≤ 30	≤ 0.3

Multi-Channel Pipettes

Model	Volume range	Volume	Sapphire Pipette Specifications				ISO 8655 Specifications			
			Systematic error		Random error		Systematic error		Random error	
	[µl]	[µl]	[µl]	[%]	[µl]	[%]	[µl]	[%]	[µl]	[%]
8 x 10	**0.5 - 10**	**0.5**	± 0.09	± 17.6	≤ 0.04	≤ 8.8	± 0.24	± 48.0	≤ 0.16	≤ 32.0
12 x 10		**10**	± 0.22	± 2.2	≤ 0.11	≤ 1.1	± 0.24	± 2.4	≤ 0.16	≤ 1.6
8 x 20	**2 - 20**	**2**	± 0.11	± 5.5	≤ 0.09	≤ 4.4	± 0.40	± 20.0	≤ 0.20	≤ 10.0
12 x 20		**20**	± 0.40	± 2.0	≤ 0.17	≤ 0.8	± 0.40	± 2.0	≤ 0.20	≤ 1.0
8 x 200	**20 - 200**	**20**	± 0.6	± 2.8	≤ 0.28	≤ 1.4	± 3.2	± 16.0	≤ 1.20	≤ 6.0
12 x 200		**200**	± 2.2	± 1.1	≤ 0.55	≤ 0.3	± 3.2	± 1.6	≤ 1.20	≤ 0.6
8 x 300	**20 - 300**	**20**	± 1.10	± 5.5	≤ 0.39	≤ 1.9	± 3.2	± 16.0	≤ 1.20	≤ 6.0
12 x 300		**300**	± 3.30	± 1.1	≤ 1.10	≤ 0.4	± 3.2	± 1.6	≤ 1.20	≤ 0.6

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ORDERING INFORMATION

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Sapphire Pipettes

Item no.	Description	Colour code	Volume range	Qty. inner / outer
89000002	single-channel pipette	orange	0.2 - 2 µl	1 / 1
89000010	single-channel pipette	red	1 - 10 µl	1 / 1
89000020	single-channel pipette	light yellow	2 - 20 µl	1 / 1
89000100	single-channel pipette	light orange	10 - 100 µl	1 / 1
89000200	single-channel pipette	yellow	20 - 200 µl	1 / 1
89001000	single-channel pipette	blue	100 - 1000 µl	1 / 1
89000500	single-channel pipette	violet	500 - 5000 µl	1 / 1
89010000	single-channel pipette	light blue	1000 - 10000 µl	1 / 1
89000810	8-channel pipette	red	0.5 - 10 µl	1 / 1
89000820	8-channel pipette	light yellow	2 - 20 µl	1 / 1
89008200	8-channel pipette	yellow	20 - 200 µl	1 / 1
89008300	8-channel pipette	green	20 - 300 µl	1 / 1
89001210	12-channel pipette	red	0.5 - 10 µl	1 / 1
89001220	12-channel pipette	light yellow	2 - 20 µl	1 / 1
89012200	12-channel pipette	yellow	20 - 200 µl	1 / 1

Accessories

Item no.	Description	Colour code	Qty. inner / outer
89000099	carrousel pipette holder	-	1 / 1
89019801	ID Clip	white	10
89019803	ID Clip	red	10
89019804	ID Clip	blue	10
89019805	ID Clip	green	10
89019806	ID Clip	yellow	10
89019809	ID Clip	assorted	10

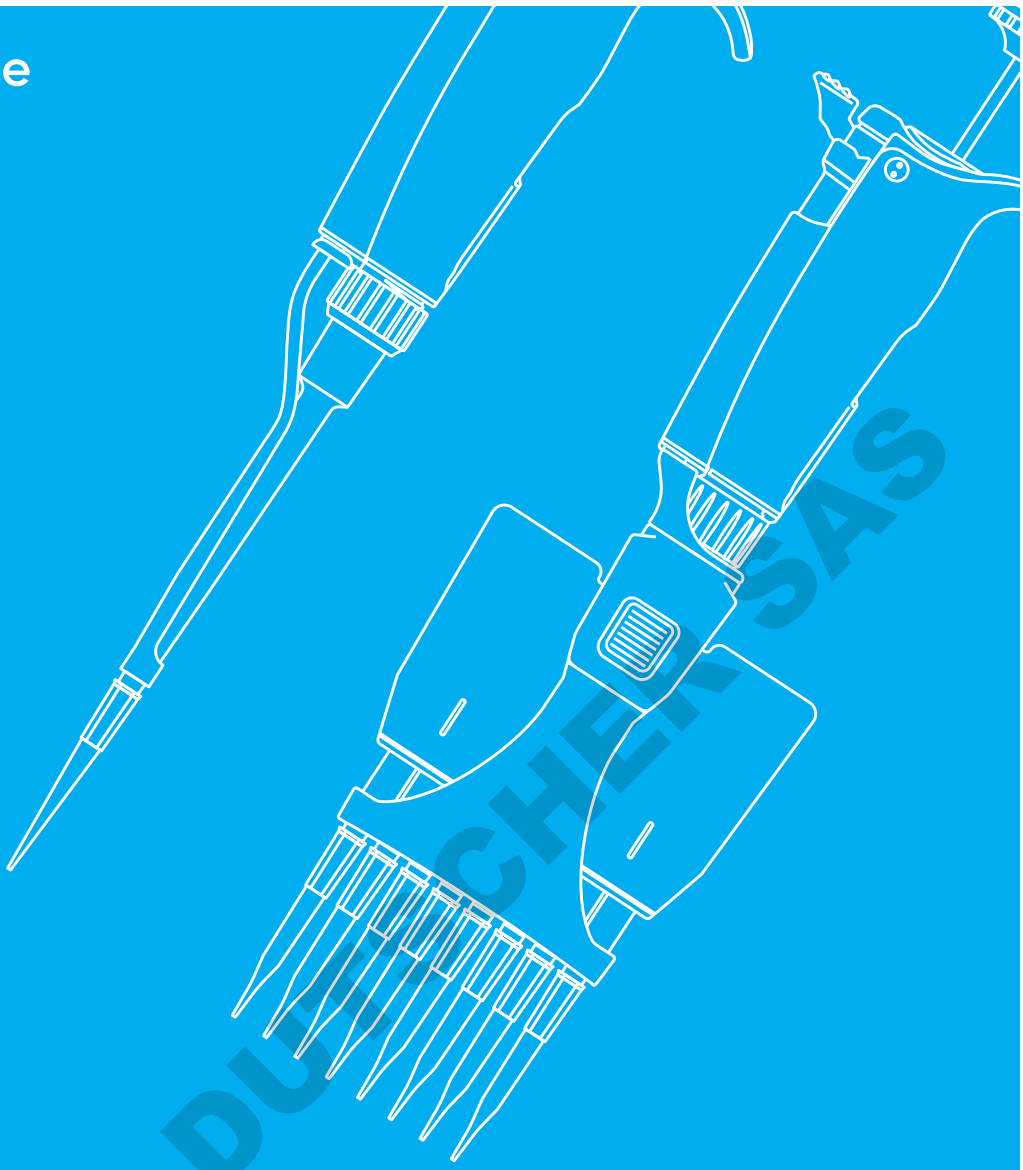
HAVE A CLOSER LOOK AT OUR SAPPHIRE PIPETTES

SERVICE & MAINTENANCE

We recommend that pipettes are serviced and calibrated annually by an authorised service provider. Please contact your local Greiner Bio-One representative for servicing options.

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