

Faster, safer, simply better!
Graduated pipettes, class AS, nominal volume at top!



The 5-Second Pipettes

BLAUBRAND®

F I R S T C L A S S · B R A N D

Reduced waiting time and simplified handling – the result: much easier pipetting!

■ **Now only 5 seconds**

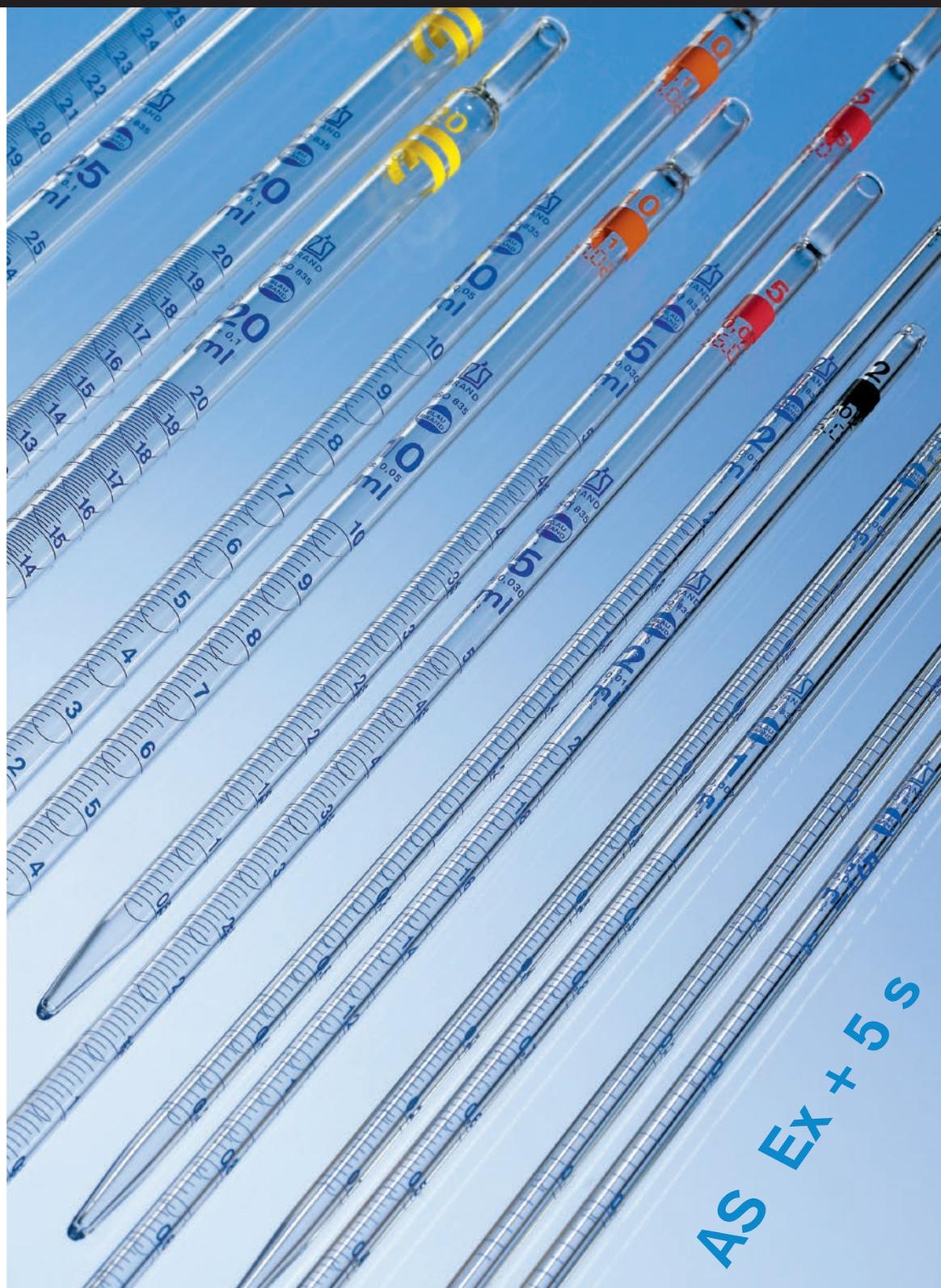
By making structural changes to the pipette, BRAND has reduced the waiting time by two-thirds to only 5 seconds, while retaining the same volume precision.

■ **Now set the meniscus only once at partial volume**

Because the nominal volume of type 2 graduated pipettes is located at the top, you can set the meniscus directly to the desired partial volume.

■ **DIN EN ISO 835 standard**

BRAND was instrumental in getting these pipettes and protocols accepted as a standard for graduated pipettes. Publication of the standard replaces the previous DIN 12697 standard. From now on, the waiting time for all class AS graduated pipettes is a mere 5 seconds.



AS Ex + 5 s

A practical example

Pipetting a 3 ml partial volume:

Zero point at the top

Nominal volume at the top

In the DIN EN ISO 835, the waiting time for graduated pipettes class AS was reduced from 15 to 5 seconds and the type 2, total delivery, nominal volume at top, was included.

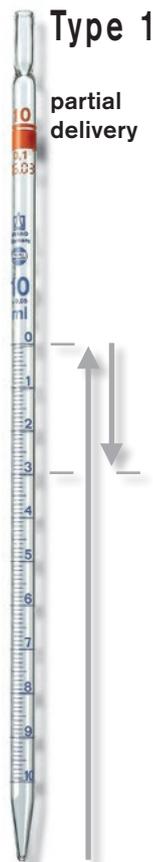
We recommend the graduated pipette type 2 as with these pipettes the meniscus needs to be set only once to achieve exact pipetting. In contrast, with types 1 and 3, there is a risk of over-dispensing while setting the meniscus the second time. In such a case, the sample would have to be prepared again.

Precision pipette tip



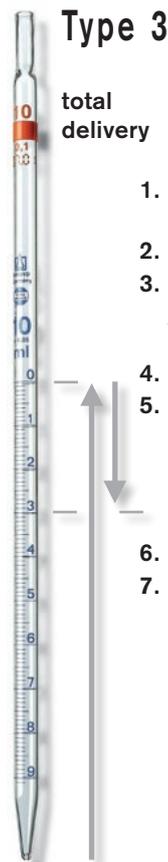
Optimized flow geometry in the tip ensures reliable liquid dispensing from bulb and graduated pipettes.

The mechanical resilience of the tip and its fire-polished edges ensure a long service life.



Type 1

partial delivery



Type 3

total delivery

1. Draw volume a bit over 0
2. Set meniscus to 0
3. Deliver liquid until just before the 3 ml marking
4. Wait 5 sec.
5. Deliver desired volume by releasing liquid slowly to set meniscus exactly to 3 ml
6. Wipe tip
7. Discard remaining volume



Type 2

total delivery

1. Draw volume a bit over 3 ml
2. Set meniscus
3. Deliver volume
4. Wait 5 sec.
5. Wipe tip

- Total delivery at partial volume
- Set meniscus only once
- Wait 5 sec.

Graduated pipettes, type 2, total delivery

BLAUBRAND®, class AS, nominal volume at the top, DE-M marking

AR-Glas®. DIN EN ISO 835. Calibrated to deliver (TD, Ex). Incl. one batch certificate. Pack of 12 (20, 25, 50 ml: Pack of 6).

Volume ml	Error Limit ml	Subdivision ml	Cotton plug upper end	BLAUBRAND® Cat. No.	BLAUBRAND® ETERNA Cat. No.
0.5	0.006	0.01	no	278 16	278 36
1	0.007	0.01	no	278 17	278 37
1	0.007	0.01	yes	278 27	278 47
1	0.007	0.1	no	278 18	–
2**	0.010	0.01	no	278 29	–
2	0.010	0.02	no	278 19	278 39
2	0.010	0.02	yes	278 28	278 48
2	0.010	0.1	no	278 20	–
5	0.030	0.05	yes	278 21	278 41
5	0.030	0.1	yes	278 22	278 42
10	0.05	0.1	yes	278 23	278 43
20	0.1	0.1	yes	278 24	278 44
25	0.1	0.1	yes	278 25	278 45
50*	0.2	0.5	yes	278 26	–



* in addition to the ISO range ** in addition to the ISO range, not conformity certified

Additional information on the graduated pipettes can be found at www.brand.de

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California Residents: For more information concerning California Proposition 65, please refer to www.brand.de/calprop65

Subject to technical modifications without notice. Errors excepted.

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