

Accuracy and precision of IKA PETTE fix and vario

Product	Ident. No.	Color Code	Increments	Nominal Volume	Accuracy 100% of nominal volume (+/-)		Precision 100% of nominal volume (+/-)		Accuracy 50% of nominal volume (+/-)		Precision 50% of nominal volume (+/-)		Accuracy 10% of nominal volume (+/-)		Precision 10% of nominal volume (+/-)	
PETTE vario 0.1 – 2 µl	0020011210	gray	0.002 µl	2 µl	1.4 %	0.028 µl	0.7 %	0.014 µl	2.5 %	0.025 µl	1.5 %	0.015 µl	12 %	0.024 µl	6 %	0.012 µl
PETTE vario 0.5 – 10 µl	0020011211	gray	0.01 µl	10 µl	1 %	0.1 µl	0.4 %	0.04 µl	1.5 %	0.075 µl	0.8 %	0.04 µl	2.5 %	0.025 µl	1.8 %	0.018 µl
PETTE vario 2 – 20 µl	0020011213	yellow	0.02 µl	20 µl	1 %	0.2 µl	0.3 %	0.06 µl	1.2 %	0.12 µl	0.6 %	0.06 µl	5 %	0.1 µl	1.5 %	0.03 µl
PETTE vario 10 – 100 µl	0020011214	yellow	0.1 µl	100 µl	0.8 %	0.8 µl	0.2 %	0.2 µl	1 %	0.5 µl	0.3 %	0.15 µl	3 %	0.3 µl	1 %	0.1 µl
PETTE vario 20 – 200 µl	0020011215	yellow	0.2 µl	200 µl	0.6 %	1.2 µl	0.2 %	0.4 µl	1 %	1 µl	0.3 %	0.3 µl	2.5 %	0.5 µl	0.7 %	0.14 µl
PETTE vario 100 – 1000 µl	0020011216	blue	1 µl	1000 µl	0.6 %	6 µl	0.2 %	2 µl	1 %	5 µl	0.2 %	1 µl	3 %	3 µl	0.6 %	0.6 µl
PETTE vario 0.5 – 5 ml	0020011217	green	5 µl	5000 µl	0.6 %	30 µl	0.15 %	7.5 µl	1.2 %	30 µl	0.25 %	6.25 µl	2.4 %	12 µl	0.6 %	3 µl
PETTE vario 1 – 10 ml	0020011218	red	10 µl	10000 µl	0.6 %	60 µl	0.15 %	15 µl	0.8 %	40 µl	0.2 %	10 µl	3 %	30 µl	0.6 %	6 µl
PETTE fix 5 µl	0020011219	gray	–	5 µl	1.2 %	0.06 µl	0.6 %	0.03 µl	–	–	–	–	–	–	–	–
PETTE fix 10 µl	0020011220	gray	–	10 µl	1.2 %	0.12 µl	0.6 %	0.06 µl	–	–	–	–	–	–	–	–
PETTE fix 20 µl	0020011221	yellow	–	20 µl	1 %	0.2 µl	0.3 %	0.06 µl	–	–	–	–	–	–	–	–
PETTE fix 25 µl	0020011222	yellow	–	25 µl	1 %	0.25 µl	0.3 %	0.075 µl	–	–	–	–	–	–	–	–
PETTE fix 50 µl	0020011223	yellow	–	50 µl	0.7 %	0.35 µl	0.3 %	0.15 µl	–	–	–	–	–	–	–	–
PETTE fix 100 µl	0020011224	yellow	–	100 µl	0.6 %	0.6 µl	0.2 %	0.2 µl	–	–	–	–	–	–	–	–
PETTE fix 200 µl	0020011225	yellow	–	200 µl	0.6 %	1.2 µl	0.2 %	0.4 µl	–	–	–	–	–	–	–	–
PETTE fix 250 µl	0020011226	blue	–	250 µl	0.6 %	1.5 µl	0.2 %	0.5 µl	–	–	–	–	–	–	–	–
PETTE fix 500 µl	0020011227	blue	–	500 µl	0.6 %	3 µl	0.2 %	1 µl	–	–	–	–	–	–	–	–
PETTE fix 1000 µl	0020011228	blue	–	1000 µl	0.6 %	6 µl	0.2 %	2 µl	–	–	–	–	–	–	–	–

Accuracy and precision of IKA PETTE multi

Product	Ident. No.	Color Code	Increments	Nominal Volume	Accuracy 100% of nominal volume (+/-)		Precision 100% of nominal volume (+/-)		Accuracy 50% of nominal volume (+/-)		Precision 50% of nominal volume (+/-)		Accuracy 10% of nominal volume (+/-)		Precision 10% of nominal volume (+/-)	
PETTE multi 8 x 0.5 – 10 µl	0020017943	gray	0.01 µl	10 µl	2 %	0.2 µl	1 %	0.1 µl	4 %	0.2 µl	2 %	0.1 µl	8 %	0.08 µl	5 %	0.05 µl
PETTE multi 8 x 10 – 100 µl	0020017944	yellow	0.1 µl	100 µl	0.8 %	0.8 µl	0.3 %	0.3 µl	1 %	0.5 µl	0.8 %	0.4 µl	3 %	0.3 µl	2 %	0.2 µl
PETTE multi 8 x 20 – 200 µl	0020017945	yellow	0.2 µl	200 µl	0.8 %	1.6 µl	0.3 %	0.6 µl	1 %	1 µl	0.65 %	0.65 µl	3 %	0.6 µl	1.25 %	0.25 µl
PETTE multi 12 x 0.5 – 10 µl	0020017946	gray	0.01 µl	10 µl	2 %	0.2 µl	1 %	0.1 µl	4 %	0.2 µl	2 %	0.1 µl	8 %	0.08 µl	5 %	0.05 µl
PETTE multi 12 x 10 – 100 µl	0020017947	yellow	0.1 µl	100 µl	0.8 %	0.8 µl	0.3 %	0.3 µl	1 %	0.5 µl	0.8 %	0.4 µl	3 %	0.3 µl	2 %	0.2 µl
PETTE multi 12 x 20 – 200 µl	0020017948	yellow	0.2 µl	200 µl	0.8 %	1.6 µl	0.3 %	0.6 µl	1 %	1 µl	0.65 %	0.65 µl	3 %	0.6 µl	1.25 %	0.25 µl

The accuracy and precision data listed in the table (acc. to DIN EN ISO 8655) only apply if IKA pipette tips are used. Technical specifications are subject to change.

Accuracy and precision: The accuracy is described through the max. permissible systematic error (deviation of the mean volume of 10 measurements). Precision is described through the max. permissible random error (variation coefficient of 10 measurements).