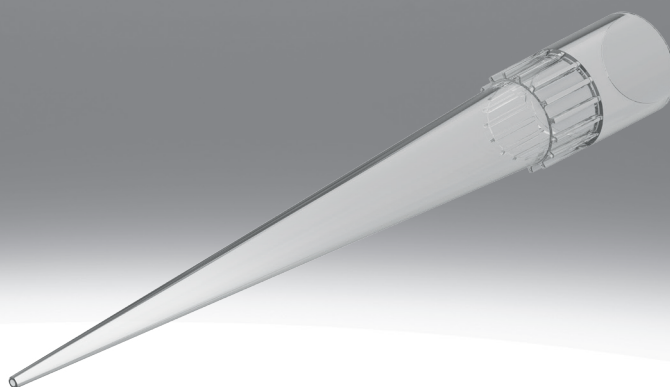


Disposable tip DHAP

**FESTO**



## Characteristics

### At a glance

The single-use pipette tip DHAP is a laboratory component that can be used anywhere and is intended to be integrated into automated liquid handling systems. The single component is for research use only and not for medical or diagnostic use.

The use of the component in a medical or diagnostic environment (IVD) is the sole responsibility of the user and must be validated within the liquid handling system.

Note: The single-use pipette tips, such as the pipette heads DHOE and DHOP, are suitable for Festo pipetting solutions.

### Volume

[20] 20 µl



[300] 300 µl



[1000] 1000 µl



Note: The tip volume refers to the maximum amount of liquids that can be aspirated. The pipetting head determines the smallest volumes that can be dispensed.

### Filter and sterile

[FS] Yes

[ ] No

### Type of packaging

[S] Stack

[R] Rack

## Type code

001	Product type
DHAP	Accessories for pipettes

002	Volume
20	20 µl
300	300 µl
1000	1000 µl

003	Output connection
TA1	Tip adapter for 20 ... 1000 µl pipette tips from Festo

004	Filter and sterile
FS	Yes
	No

005	Packaging quantity [pieces]
P960	960

006	Type of packaging
R	Rack
S	Stack

## Datasheet

### General technical data

Design	Pipette tip holder for 20...1000 µl single-use tips from Festo
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### Operating and environmental conditions

Bioburden	DNase: ≤ 5E-7 Kunitz u./µl Free of BSE/TSE RNase: ≤ 5E-9 Kunitz u./µl Endotoxin: ≤ 0.001 EU/ml DNA: < 32 pg human DNA ATP: < 2E-12 mg/µl
Sterility	SAL 1E-6, pre-sterilised
Storage temperature	5 ... 40 C
Note on storage temperature	Temporarily during transport in packaging -25 ... 55°C
Ambient temperature	5 ... 40 C
Environmental conditions	Atmospheric pressure 80 ... 106 kPa
Relative air humidity	10 - 90%, Non-condensing
Corrosion resistance class CRC <sup>1)</sup>	4 - Very high corrosion stress

1) More information [www.festo.com/x/topic/kbk](http://www.festo.com/x/topic/kbk)

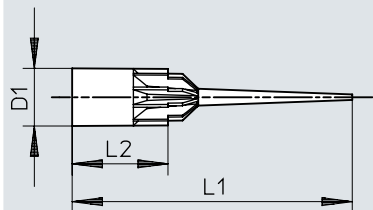
### Materials

Note on materials	RoHS-compliant
Pipette tip material	PP
LABS (PWIS) conformity	VDMA24364 zone III

## Dimensions

Dimensions – DHAP-20-...

Download CAD data → [www.festo.com](http://www.festo.com)

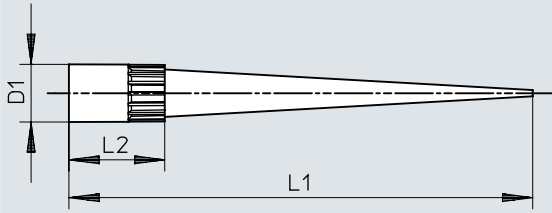


	D1 ∅	L1	L2
DHAP-20-TA1-P960S	7,7	37,1	12,7
DHAP-20-TA1FS-P960S			

## Dimensions

Dimensions – DHAP-...300-...

Download CAD data → [www.festo.com](http://www.festo.com)

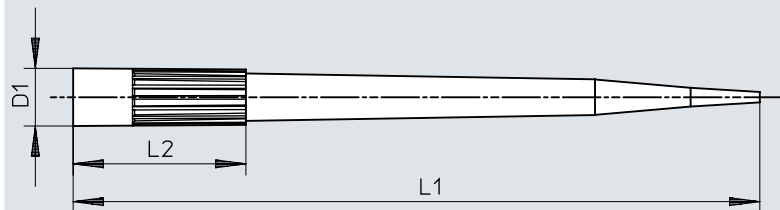


	D1 ∅	L1	L2
DHAP-300-TA1-P960S	7,7	61,4	12,7
DHAP-300-TA1FS-P960S			

## Dimensions

Dimensions – DHAP-...1000-...

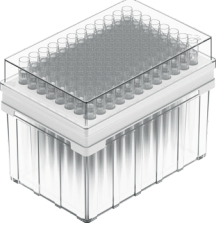
Download CAD data → [www.festo.com](http://www.festo.com)



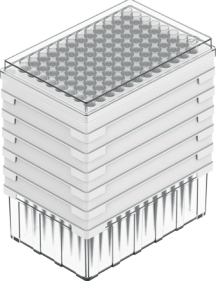
	D1 ∅	L1	L2
DHAP-1000-TA1-P960S	7,7	90,9	22,9
DHAP-1000-TA1FS-P960S			

## Ordering data

### Single-use pipette tip, rack

	Volume	Filter	Sterility	Packaging type	Size of pack	Part no.	Type
	20 µl	yes	SAL 1E-6, pre-sterilised	Rack	960	<b>8160285</b>	<b>DHAP-20-TA1FS-P960R</b>
	300 µl					<b>8160286</b>	<b>DHAP-300-TA1FS-P960R</b>
	1000 µl	-	-			<b>8160284</b>	<b>DHAP-1000-TA1-P960R</b>
		yes	SAL 1E-6, pre-sterilised			<b>8160287</b>	<b>DHAP-1000-TA1FS-P960R</b>

### Disposable pipette tip, stack

	Volume	Filter	Sterility	Packaging type	Size of pack	Part no.	Type
	20 µl	-	-	Stack	960	<b>8160282</b>	<b>DHAP-20-TA1-P960S</b>
	300 µl					<b>8160283</b>	<b>DHAP-300-TA1-P960S</b>