DATA SHEET

Type TVU003

Fittings for UNF connections with PTFE hose for analysis valves with UNF 1/4"-28 connection

- Screw joints for laboratory applications
- Cavity-free connection
- No media turbulence
- Reliable seal
- Materials: PP, PEEK, PPS, ETFE, PTFE

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

Type 0127
2/2-way or 3/2-way rocker solenoid valve with separating diaphragm

Type description

In medical, biological and chemical laboratory and analysis technology, UNF threads in combination with fittings are typically used to connect hoses (PTFE, ...) and pipes/capillaries (VA, PEEK, ...). Bürkert valves Type 0117, 0127, 6126, 6606, 6650, 6624, 6712 and 6724 are available with a UNF thread 1/4"-28. Fittings for UNF connections consist of a basic screw joint and a collet. The connections can be assembled very easily and quickly. They are cavity-free and prevent the medium from swirling when it is transferred from the valve to the hose. Assembly instructions: tighten basic screw joint hand-tight only, never squeeze it. The collet and the hose form a reliable seal without the use of other materials.

DTS 1000106481 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

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Visit product website

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 4.
Material	
Basic screw connection	PEEK, PP, PPS
Collet	ETFE (TEFZEL)
Valve connecting thread	UNF ¼"...28
Hose outer diameter	1/16" (1.6 mm) ⅛" (3.2 mm)
Pressure for collet [1.)]	Max. 131 bar

1.) The pressure was measured at + 20 °C with water. It refers only to the joint.

2. Approvals and conformities

2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

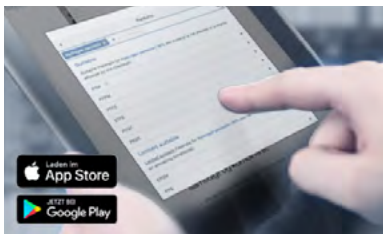
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3. Materials

3.1. Bürkert resistApp



Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

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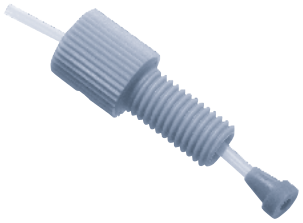
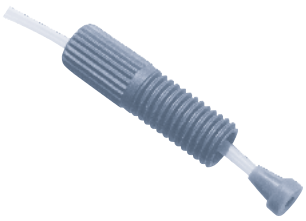
4. Product variants

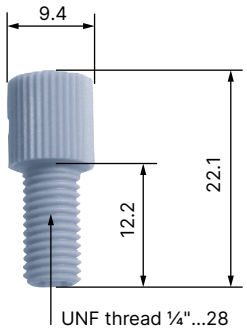
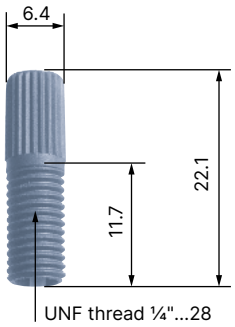
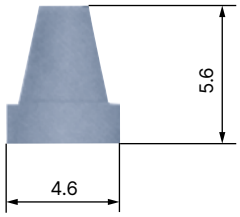
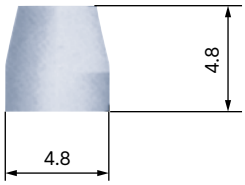
Variant type 1013-AA 05 with 1/16" tube Basic screw connection: PP and PEEK	Variant type 1013-AA 05 with 1/16" tube Basic screw connection: PPS
	

5. Dimensions

5.1. Straight basic screw connections with UNF ¼...28 thread

Note:
Dimensions in mm

Mounting instruction:
Only tighten the basic screw connection by hand, never squeeze it. The collet forms a reliable seal with the hose without further use of material.

Variant PP and PEEK, for 1/16" and ⅛" hose outer diameter	Variant PPS, for 1/16" and ⅛" hose outside diameter
	
Collet for hose outer diameter 1/16", blue	**Collet for hose outer diameter ⅛", yellow**
	

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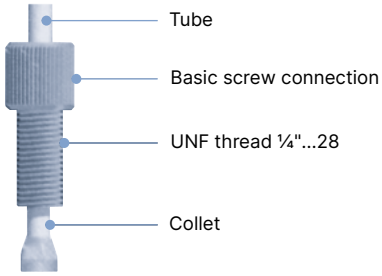
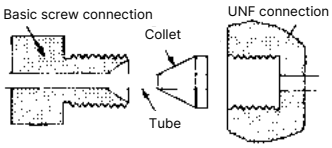
6. Product design and assembly

6.1. Product features





7. Ordering information

7.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

7.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

7.3. Ordering chart

Variant	Outer hose diameter	Material	Colour	Delivery quantity	Article no.
Straight basic fitting with thread	1/16" (1.6 mm)	PP	White	1 piece	787065
		PPS	Black	1 piece	787063
		PEEK	Beige	1 piece	787064
UNF ¼...28 thread	⅛" (3.2 mm)	PP	White	1 piece	787062
		PEEK	Beige	1 piece	787061
Collets	1/16" (1.6 mm)	ETFE	Blue	1 piece	787058
	⅛" (3.2 mm)	ETFE	Yellow	1 piece	787059
Tubes	Øa x Øi = 1.6 mm (1/16") x 0.8 mm	PTFE	White	10 m	784360
	Øa x Øi = 1.6 mm (1/16") x 1.0 mm	PTFE	White	10 m	784361
	Øa x Øi = 3.2 mm (⅛") x 1.6 mm	PTFE	White	10 m	784362

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