

## Pipe system overview

For establishing a TITANUS® aspirating smoke detector system, pipe components with various diameters are available in PVC and ABS:

- Pipe diameter

As standard, the air sampling pipes and fittings are manufactured with 25 mm outer diameter.

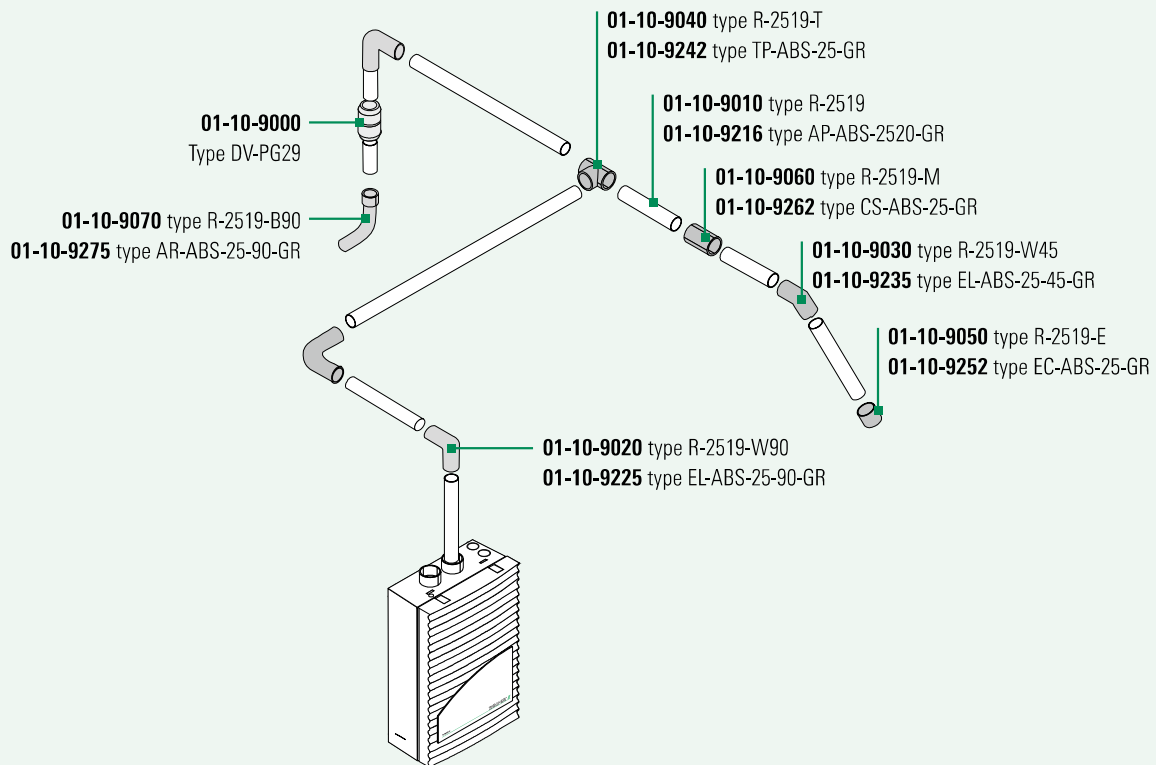
- Pipe material

In general, the PVC version is sufficient for air sampling pipes. However, in cold storage areas and in areas where halogen-free installation systems are required, ABS piping must be used. The same applies to fittings. The pipe components offered meet the requirements stated in EN 54-20, in accordance with EN 61386-1 Class 1131.

The diagram below shows combination options with the components of a 25 mm pipe system.



### Pipe system for smoke aspiration, 25 mm (sample setup)



## Air sampling pipe

### Air sampling pipe

Air sampling pipe for establishing a pipe system for room and equipment monitoring; meets the requirements according to EN 61386-1 for the stated temperature range

Air sampling pipe								
Outer diameter [mm]	Material	Halogen-free	Packing unit [m/pc]	Article number	Type	Inner diameter [mm]	Color	Operating temperature range [°C]
25	PVC	–	5.0	01-10-9010	R-2519	21.2	Dark gray	–10 to +60
		–	5.0	01-10-6010	RR-2519	21.2	Red	
	ABS	×	5.0	01-10-9216	AP-ABS-2520-GR	21.0	Light gray	–40 to +80
		×	2.5	01-10-9215	AP-ABS-2520-GR	21.0	Light gray	
		×	5.0	01-10-6216	AP-ABS-2520-RD	21.0	Red	
		×	2.5	01-10-6215	AP-ABS-2520-RD	21.0	Red	

### Pipe colors and materials



Dark gray  
(PVC)



Light gray  
(ABS, halogen-free)



Red  
(PVC and ABS, halogen-free)

## Fittings for air sampling pipe

### Fittings for air sampling pipe

Fittings for establishing a pipe system for room and equipment monitoring; meet the requirements according to EN 61386-1 for the stated temperature range

PVC					
-10 °C to +60 °C					
For pipe outer diameter [mm]	Color	Type	Article number	Type	Packing unit [pcs]
25	Dark gray	90° bend	01-10-9070	R-2519-B90	10
		90° elbow	01-10-9020	R-2519-W90	
		45° elbow	01-10-9030	R-2519-W45	
		T-piece	01-10-9040	R-2519-T	
		Coupler	01-10-9060	R-2519-M	
		End cap	01-10-9050	R-2519-E	
25	Red	90° bend	01-10-6070	RR-2519-B90	10
		90° elbow	01-10-6020	RR-2519-W90	
		45° elbow	01-10-6030	RR-2519-W45	
		T-piece	01-10-6040	RR-2519-T	
		Coupler	01-10-6060	RR-2519-M	
		End cap	01-10-6050	RR-2519-E	

**Fittings**



ABS (halogen-free)					
-40 °C to +80 °C					
For pipe outer diameter [mm]	Color	Type	Article number	Type	Packing unit [pcs]
25	Light gray	90° bend	01-10-9275	AR-ABS-25-90-GR	10
		90° elbow	01-10-9225	EL-ABS-25-90-GR	
		45° elbow	01-10-9235	EL-ABS-25-45-GR	
		T-piece	01-10-9242	TP-ABS-25-GR	
		Coupler	01-10-9262	CS-ABS-25-GR	
		End cap	01-10-9252	EC-ABS-25-GR	
25	Red	90° bend	01-10-6275	AR-ABS-25-90-RD	10
		90° elbow	01-10-6225	EL-ABS-25-90-RD	
		45° elbow	01-10-6235	EL-ABS-25-45-RD	
		T-piece	01-10-6242	TP-ABS-25-RD	
		Coupler	01-10-6262	CS-ABS-25-RD	
		End cap	01-10-6252	EC-ABS-25-RD	

## Pipe connection pieces

Article no. **01-10-9000**



### Double screw fitting Type DV-PG29

Screw fitting to make a disengageable connection of two air sampling pipes with an outer diameter of 25 mm

#### Data sheet excerpt:

Temperature range	-40 °C to +100 °C
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VPE	1 pc
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Article no. **01-10-9207**



### ABS adhesive screw fitting Type CJ-ABS-25-GR

Adhesive screw fitting to make a disengageable connection of two ABS air sampling pipes with an outer diameter of 25 mm

#### Data sheet excerpt:

Color	Gray
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Temperature range	-40 °C to +80 °C
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VPE	10 pcs
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Article no. **01-10-9005**



### PVC adhesive screw fitting Type KV-R-2519

Adhesive screw fitting to make a disengageable connection of two PVC air sampling pipes with an outer diameter of 25 mm

#### Data sheet excerpt:

Color	Gray
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Temperature range	-10 °C to +100 °C
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VPE	10 pcs
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## Adhesives and sealants for pipe components

### Adhesives and sealants

Accessories for bonding pipe components, removing adhesive residues  
and sealing threads

Article no. **01-90-1000**



### PVC adhesive Type TI60

Adhesive for PVC plastics

#### Data sheet excerpt:

Temperature resistance	0 °C to +60 °C
Storage temperature range	+5 °C to +35 °C

VPE 125 g

Article no. **01-90-1070**



### ABS adhesive Type TIS10

Adhesive for ABS plastics

#### Data sheet excerpt:

Temperature resistance	-40 °C to +60 °C
Storage temperature range	+5 °C to +50 °C

VPE 0.5 l

Article no. **01-90-1010**



### Plastic cleaner Type TM20N

Cleaning agent for bonding points on ABS and PVC plastics

#### Data sheet excerpt:

Operating temperature range	0 °C to +35 °C
Storage temperature range	0 °C to +35 °C

VPE 125 ml

Article no. **01-90-1080**
**Plastic cleaner**  
**Type TM8N**
**Cleaning agent for bonding points on ABS and PVC plastics**
**Data sheet excerpt:**

Operating temperature range	0 °C to +35 °C
Storage temperature range	0 °C to +35 °C

VPE	1 l
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Article no. **01-90-1668**
**Thread sealing tape**  
**Type GDB-Rück90**
**Thread sealing tape for producing gas-tight threaded connections**
**Data sheet excerpt:**

Material	PTFE
Width	12.7 mm
Thickness	0.09 mm
Length	13.7 m
Thread reversing angle	90°
Temperature range	-240 °C to +260 °C

Article no. **01-90-1720**
**Sealing tape**  
**Type DB-Teflon**
**Thread sealing tape for producing gas-tight threaded connections**
**Data sheet excerpt:**

Material	PTFE
Width	12 mm
Thickness	0.1 mm
Length	12 m
Thread reversing angle	45°
Temperature range	-200 °C to +260 °C

**Pipe shears for cutting air sampling pipes**

**Tools**

Shears with easy and safe handling for separating pipe components

Article no. **85-20-2821**



**Pipe shears**  
**Type D200107**

For shortening air sampling pipes made of plastics (PVC and ABS)  
up to a max. outer diameter of 42 mm

VPE 1 pc



### Connecting parts and fastenings for establishing pipe systems

#### Fastenings

Screw fittings, adapters and connecting parts for the transition between different pipe components as well as accessories for fastening the pipe system in the application area

Article no. **01-35-0440**



#### Pressure clamp for air sampling pipe Type 18/30

Pressure clamp with multiple snap-in positions for optionally clamping with play or firm seating. Can be used for 25 mm air sampling pipe

##### Data sheet excerpt:

Material	Polyamide
Temperature range	-40 °C to +140 °C

**VPE** 25 pcs

Article no. **01-35-1075**



#### Clamp for air sampling pipe Type NG 23

For 25 mm air sampling pipe

##### Data sheet excerpt:

Material	Polypropylene
Temperature range	-30 °C to +90 °C

**VPE** 100 pcs

Article no. **01-35-2450**



#### Plastic pipe clamp Type CLIC-PA

For 25 mm air sampling pipe

##### Data sheet excerpt:

Material	Polyamide
Temperature range	-40 °C to +90 °C

**VPE** 1 pc