

# Plumbing, heating, air-conditioning

Jansen services installations range of products

**JANSEN**

# JANSEN PRIMA, EVO & FUTURA

## The clever installation systems



A fitting combined with various pipe types covers a broad spectrum of use in the field of services installations. Drinking water and heating systems can be installed with the Jansen services installations range just as well as underfloor heating systems and cooling ceilings. For the first time there is a range in Switzerland that is used for the heating and sanitary fields in equal measure.



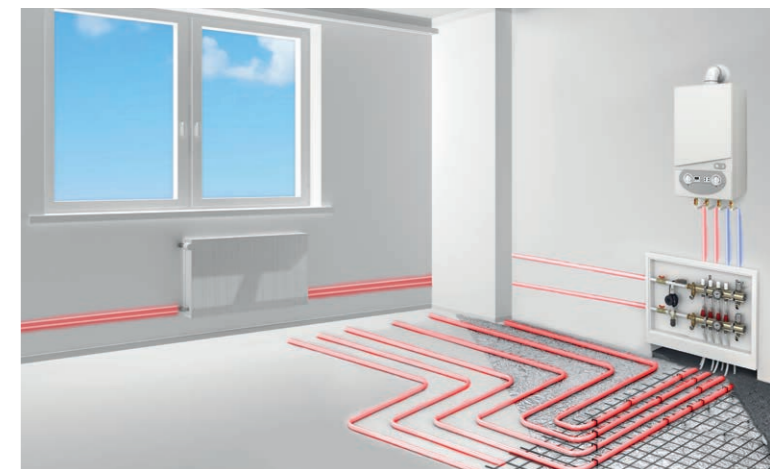
### Drinking water installations

With the JANSEN PRIMA installation system inlays, surface-mounted and under-plaster installations as well as rising mains and basement sub-distribution systems can be realised.



### Heating installations

The JANSEN EVO installation system is excellently suited to all heat distribution and connection lines. For panel heating we recommend the JANSEN FUTURA composite pipes.



### Thermoactive installations

Thermoactive components (TABS) as well as all risers and distribution lines can also be implemented with the pipe range by Jansen and the Comisa Press System.





# Guaranteed safety

## Maximum flexibility



- 1 Fitting contour**  
The special fitting contour allows repositioning of the pipe after pressing for a quick and secure installation.
- 2 Recessed O-rings**  
Thanks to the recessing there is no risk of damage to the O-rings when connecting the pipe and fitting.
- 3 Spacer made from plastic**  
Prevents contact corrosion between the individual metals brass, chrome steel and aluminium. Furthermore, the spacer eases the positioning of the pressing jaw.
- 4 Chrome steel sleeve**  
with insertion depth indicator for a quick and secure installation.

- 5 PE-RT aluminium composite pipe  
PE-RT 5-layer pipe with EVOH**
- 6 Pre-insulated pipes**
- 7 PB3-layer pipe with EVOH**
- 8 Pipes in protective conduit**





# PRIMA

## High-temperature range with approval for drinking water

The PRIMA pipe range covers a wide range of services installation applications.

### Application

Drinking water and heating installations, underfloor and wall heating systems, and cooling ceilings

### Drinking water installations

The pipes can be used for surface-mounted and under-plaster installations, rising mains and distribution.

### Heating installations

The pipes are suitable for all types of heat distribution, radiator connections and underfloor heating, as well as for cooling ceilings and wall heating systems.

### Advantages

- Certified for drinking water application
- Suitable for both high and low temperature range
- Pipe classification facilitates allocation to the correct application area.

### Product range

Type of pipe	Options	Dimensions	Standards/approvals
PE-RT multilayer pipe with aluminium	Straight lengths Coils Coils, with external protection Coils, in conduit	16 - 63 mm 16 - 32 mm 16 - 32 mm 16 and 20 mm	EN ISO 21003 DVGW DW-8236BN0125 SVGW 1410-6325 SKZ-A349 KIWA K40804/04





# EVO

## High temperature rang

The EVO pipe range covers all heating and cooling systems.

### Application

Heating installations, underfloor and wall heating systems as well as cooling ceilings

### Heating installations

The pipes are suitable for all types of heat distribution, radiator connections and underfloor heating, as well as for cooling ceilings and wall heating systems.

### Advantages

- Suitable for both high and low temperature range
- Pipe classification facilitates allocation to the correct application area.

### Product range

Type of pipe	Options	Dimensions	Standards/approvals
PE-RT multilayer pipe with aluminium	Straight lengths	16 - 20 mm	ISO 10508
	Coils	12 - 26 mm	SKZ-A349
	Coils, pre-insulated	14 - 26 mm	
PE-RT 5-layer pipe	Coils	8 - 32 mm	ISO 22391 SKZ-A325
PB 3-layer pipe	Coils	8 - 20 mm	ISO 15876 SKZ-A141





# FUTURA

## Low temperature range

The FUTURA pipe range covers heat distribution in the low temperature range.

### Application

Underfloor and wall heating systems as well as cooling ceilings

### Heating installations

Owing to their excellent soft bending properties, the pipes are suitable for underfloor and wall heating systems, as well as cooling ceilings. Of particular benefit is the low force required for installation.

### Advantages

- Only for low temperature range
- Very soft
- Easy to install, low force required for installation
- Pipe classification facilitates allocation to the correct application area.

### Product range

Type of pipe	Options	Dimensions	Standards/approvals
PE multilayer pipe with aluminium	Coils	16 mm	ISO 10508
PB 3-layer pipe	Coils	10 - 16 mm	EN ISO 15876 SKZ-A141



# Plumbing & heating pipes

## Range of products

All pipes are manufactured at our own production facilities at Oberriet in Switzerland. Our in-house laboratory and quality management, the fully automated production processes and the internal and external quality control by various certification agencies ensure top Swiss quality.

### Insulated pipes and pipes with external protection

The PRIMA and EVO ranges are also available as pre-insulated pipes.

Coils	Dimension	Thickness of insulation
with external protection	16 - 32 mm	6, 10, 15 mm
	16, 20 mm	

### Insulation variants in the PRIMA and EVO range

Dimension	Thickness of insulation to comply with GEG		Thermal conductivity
	50%	100%	
16, 18, 20 x 2.0 mm	10 mm	20 mm	$\lambda = 0.035 \text{ W/mK}$
26 x 3.0 mm	10 mm	20 mm	$\lambda = 0.035 \text{ W/mK}$
32 x 3.0 mm	15 mm	-	$\lambda = 0.035 \text{ W/mK}$

### Range Available dimensions and pipe classification for operating conditions

Classification to ISO class (KI); max. operating pressure pipe in bar

<b>PE-RT multilayer pipe with aluminium PRIMA</b>	<b>16 x 2.0</b> KI 1-5 10 bar	<b>20 x 2.0</b> KI 1-5 10 bar	<b>26 x 3.0</b> KI 1-5 10 bar	<b>32 x 3.0</b> KI 1-4/10 bar KI 5/8 bar	<b>40 x 3.5</b> KI 1-4/10 bar KI 5/8 bar	<b>50 x 4.0</b> KI 1-2/10 bar KI 4-5/6 bar	<b>63 x 6.0</b> KI 1-2/10 bar KI 4-5/6 bar			
<b>PE-RT multilayer pipe with aluminium EVO</b>	<b>12 x 1.3</b> KI 4/5 10 bar	<b>14 x 2.0</b> KI 4/5 10 bar	<b>16 x 2.0</b> KI 4/5 10 bar	<b>16 x 2.25</b> KI 4/5 10 bar	<b>18 x 2.0</b> KI 4/5 10 bar	<b>20 x 2.0</b> KI 4/5 10 bar	<b>20 x 2.5</b> KI 4/5 10 bar	<b>26 x 3.0</b> KI 4/5 10 bar		
<b>PE multilayer pipe with aluminium FUTURA</b>	<b>16 x 2.0</b> KI 4 6 bar									
<b>PE-RT 5-layer pipe EVO with EVOH</b>	<b>8 x 1.0</b> KI 4/6 bar KI 5/4 bar	<b>10 x 1.3</b> KI 4/6 bar KI 5/4 bar	<b>12 x 1.3</b> KI 4/4 bar KI 5/4 bar	<b>14 x 2.0</b> KI 4/8 bar KI 5/6 bar	<b>16 x 2.0</b> KI 4/8 bar KI 5/6 bar	<b>17 x 2.0</b> KI 4/6 bar KI 5/4 bar	<b>18 x 2.0</b> KI 4/6 bar KI 5/4 bar	<b>20 x 2.0</b> KI 4/6 bar KI 5/4 bar	<b>26 x 3.0</b> KI 4/6 bar KI 5/4 bar	<b>32 x 3.0</b> KI 4/6 bar KI 5/4 bar
<b>PB 3-layer pipe EVO with EVOH</b>	<b>8 x 1.0</b> KI 4/10 bar KI 5/8 bar	<b>10 x 1.0</b> KI 4/10 bar KI 5/8 bar	<b>12 x 1.3</b> KI 4/5 10 bar	<b>14.5 x 1.8</b> KI 4/5 10 bar	<b>15 x 1.5</b> KI 4/8 bar KI 5/6 bar	<b>16 x 2.0</b> KI 4/5 10 bar	<b>17 x 2.0</b> KI 4/5 10 bar	<b>18 x 2.0</b> KI 4/5 10 bar	<b>20 x 2.0</b> KI 4/10 bar KI 5/8 bar	
<b>PB 3-layer pipe FUTURA with EVOH</b>	<b>10 x 1.0</b> KI 4/5 8 bar	<b>12 x 1.3</b> KI 4/5 10 bar	<b>15 x 1.5</b> KI 4/5 8 bar	<b>16 x 2.0</b> KI 4/5 10 bar						

# Classification

## Operating conditions

Table from EN ISO 21003

Application class	Design temperature $T_D$	Operating pressure <sup>b</sup> at $T_D$	$T_{max}$	Operating pressure <sup>b</sup> at $T_{max}$	$T_{mal}$	Operating pressure <sup>b</sup> at $T_{max}$	Typical application area
	°C	Years	°C	Years	°C	h	
1 <sup>a</sup>	60	49	80	1	95	100	Hot water supply (60°C)
2 <sup>a</sup>	70	49	80	1	95	100	Hot water supply (70°C)
4 <sup>b</sup>	20 plus cumulative	2.5					Underfloor heating and low-temperature radiator connections
	40 plus cumulative	20	70	2.5	100	100	
	60	25					
5 <sup>b</sup>	20 plus cumulative	14					High-temperature radiator connections
	60 plus cumulative	25	90	1	100	100	
	80	10					

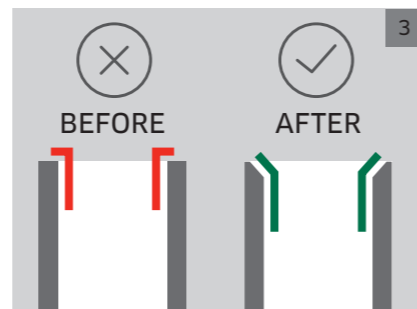
# Installation and press check



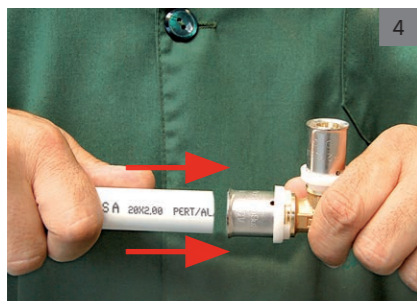
Cutting of pipe



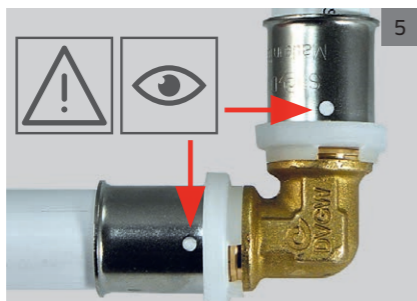
Calibration and deburring



Pipe calibration and end preparation



Installation of fitting



Visual check



Pressing with TH pressing jaws



Unpressed fitting



Unpressed fitting tested between 1 and 4.5 bar - **not sealed**



Pressed fitting tested at between 1 and 4.5 bar - **sealed**

# The benefits of the installation systems

## All from one source

You receive pipes, fittings and pressing tools from one source and in Jansen you have a contact or supplier for several applications.

## Versatile

Be it in the sanitary field, for radiator connections, underfloor heating, wall heating systems, cooling, compressed air or industrial installations - all applications can be covered with just one system.

## Practical

The protective conduits and insulation are available in the colours red and blue. This makes it almost impossible for the two to be mixed up on the building site and the installation is completed even more efficiently.

## Swiss quality

All pipes are manufactured at our own production facilities in Switzerland. The in-house laboratory and quality management, the fully automatic production processes, as well as the checks by the SKZ plastic centre guarantee the highest Swiss quality.

## Simple

Using a four-step process, it requires very little effort to securely, simply and quickly install the pipes and fittings.

## Cost-effective

All installations can be realised with one system. Correspondingly, only one system has to be purchased, stored and administered. This saves significant process costs.

## Long service life

Aluminium and plastic combined create a long-lasting and permanently secure system.

## Certified

The installation system is certified by SVGW and permitted for drinking water applications. It fulfils all hygiene and toxicological requirements. The classification of the operating conditions according to EN ISO 21003 guarantees a service life of 50 years.

## Efficient

The fittings fit all pipe variants and are always pressed with the same pressing tool.

## Clever

The sleeve made from chrome steel has an insertion depth indicator, which reduces installation time and increases safety. Thanks to the fitting geometry, the connections are not sealed when not crimped and sealed when crimped.

## Safe

When connecting the pipe and fitting, the two O-rings are protected by the recessed positioning in the brass body. Thanks to the sophisticated fitting design, the pipe can also be safely repositioned and adjusted after pressing.





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