

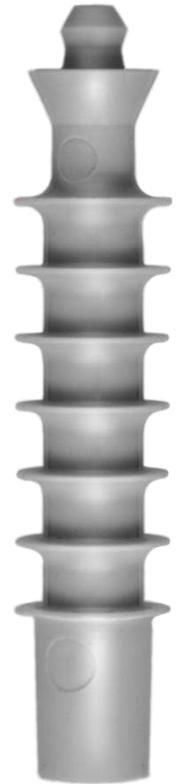


# [ TECHNICAL INFORMATION ]

Technical information about the product lines of SKP – Plastic sealing-packers in diameter 12mm and 18mm with progressive leaf seal and valve

## D12A

SKU:	010 0001
Dimensions	Ø13,8 x 70 (mm)
Borehole	Ø12(±1) x 60 (mm)
Passage	Ø2,4
Material	Polyamide (PA)
Valve	Steel ball, free wheeling
Coupling	Cone-nipple
Coupling	7 fins, progressive
Sealing	Ø13,8 x 70 (mm)
Suitable for:	Hydrophobic silicone fluids
GEL-Injection	<ul style="list-style-type: none"> <li>✓ Hydrophobic silicone fluids</li> <li>✓ GEL-Injection</li> <li>✓ Epoxy- and</li> <li>✓ Polyurethane-based sealers</li> <li>✓ Cement-grout</li> </ul>
Epoxy- and	<ul style="list-style-type: none"> <li>✓ Crack repair</li> <li>✓ Horizontal damp-proof barriers</li> <li>✓ Mould abatement</li> </ul>



The D12A is designed with its cone-nipple for use with high pressure pumps. The valve passage at 2.4 mm is larger (by about 50%) than that of any other commercially available cone nipple.

Our single use injectors negate the need for cleaning or removal like traditional steel packers. After application, the packer remains in the wall and can be cut off flush to the wall. The free-running ball valve ensures a secure closure, provided a backpressure of at least 3 bars is present. In low-pressure applications (less than 3 bars), the ball-closure may not close in this case, caps are available (Kappe / A).

Our products can be used in construction projects great and small. Used correctly they are the best injectors available on the market and are the first choice of construction experts. We do not make any claims as to the maximum back-pressure our products can withstand. You, as construction professionals can judge the conditions present in your own projects and use our products accordingly.

To avoid damage of the quick-coupling clutch and to set the Packer correctly in the borehole, it is necessary to use the setting tool (ESH/A).

### Accessory



**Accessory: Setting tool - ESH/A**  
**Cap - Kappe/A**

**[SKU 030 0001]**  
**[SKU 030 0003]**

## D12C / D12C+

SKU:	010 0002 / 010 0003
Dimensions	Ø13,8 x 76,6 (mm)
Borehole	Ø12(±1) x 60 (mm)
Passage	Ø2,4
Material	Polyamide (PA)
Valve	Steel ball, free wheeling
Coupling	Quick-release coupling 7,2mm
Coupling	appropriate for mixing-tips and ES-D
Sealing	7 fins, progressive
Suitable for:	✓ Hydrophobic silicone fluids
	✓ GEL-Injection
	✓ Epoxy- and
	✓ Polyurethane-based sealers
Applications::	✓ Cement-grout
	✓ Crack repair
	✓ Horizontal damp-proof barriers
	✓ Mould abatement



The **D12C** is designed with a quick-coupling for use with low pressure pumps. It is also suitable for use with straight mixer tips (e.g. Sulzer® Mixpac™). The **valve passage is larger, at 2.4 mm** (by about 50%) than that of any other commercially available packer.

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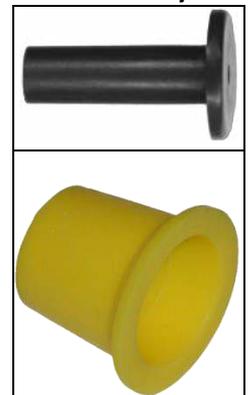
In low-pressure applications (less than 3 bars), the ball-closure may not close, in this case, caps are available (**Cap - Kappe/C**).

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We do not make any claims as to the maximum back-pressure our products can withstand. You, as construction professionals, can judge the conditions present in your own projects and use our products accordingly.

To avoid damage of the quick-coupling clutch and to set the Packer correctly in the borehole, it is necessary to use the setting tool (**ESH/C**).

### Accessory



<b>Accessory: Setting tool - ESH/C</b>	<b>[SKU 030 0002]</b>
<b>Flathead coupling - ES-D</b>	<b>[SKU 030 0005]</b>
<b>Cap - Kappe/C</b>	<b>[SKU 030 0004]</b>

## D12CX



SKU:	010 0008
Dimensions	Ø13,8 x 76,6 (mm)
Borehole	Ø12(±1) x 60 (mm)
Passage	Ø 5 mm
Material	Polyamide (PA)
Valve	<b>No valve</b> / appropriate for multi-stage injection
Coupling	Quick-release coupling 7,2mm
Coupling	appropriate for mixing-tips and ES-D
Sealing	7 fins, progressive
Suitable for:	✓ Hydrophobic silicone fluids
	✓ GEL-Injection
	✓ Epoxy- and
	✓ Polyurethane-based sealers
	✓ Cement-grout
Applications::	✓ Crack repair
	✓ Horizontal damp-proof barriers
	✓ Mould abatement

The D12CX is designed with a quick-coupling for use with low pressure pumps. It is also suitable for use with straight mixer tips (e.g. Sulzer® Mixpac™). The passage of 5 mm is suitable to e.g with a spear (Ø 5mm) perform multistage injections.

The enlarged eighth plate (used with a setting mounting tool) helps to ensure that the packer is not seated too far into the wall, so the clutch is always reachable.

Our single use injectors negate the need for cleaning or removal like traditional steel packers. After application, the packer remains in the wall and can be cut off flush to the wall. In this packer, no valve is fitted. To close the packer after application, caps are available (Kappe/C).

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To avoid damage of the quick-coupling clutch and to set the Packer correctly in the borehole, it is necessary to use the setting tool (ESH/C).

### Accessory



<b>Accessory: Setting tool - ESH/C</b>	<b>[SKU 030 0002]</b>
<b>Flathead coupling - ES-D</b>	<b>[SKU 030 0005]</b>
<b>Cap - Kappe/C</b>	<b>[SKU 030 0004]</b>

## D12D



SKU:	010 0010
Dimensions	Ø13,8 x 79,6 (mm)
Borehole	Ø12(±1) x 60 (mm)
Passage	Ø 2 mm
Material	Polyamide (PA) / POM
Valve	Steel ball, freewheeling inside ES-D
Coupling	Flathead coupling
Coupling	7 fins, progressive
Sealing	✓ Hydrophobic silicone fluids
	✓ GEL-Injection
	✓ Epoxy- and
	✓ Polyurethane-based sealers
	✓ Cement-grout
Suitable for:	✓ Crack repair
	✓ Horizontal damp-proof barriers
	✓ Mould abatement

The **D12D** is a prepared combination of **D12CX** and **ES-D** and ready to use with a flat-head coupling. It eliminates costly screw flat-head-connectors of steel. The Packers can be used immediately.

Our single use injectors negate the need for cleaning or removal like traditional steel packers. After application, the packer remains in the wall and can be cut off flush to the wall.

To avoid damage of the flathead-coupling clutch and to set the Packer correctly in the borehole, it is necessary to use a soft-head hammer and hit it parallel to the head-surface.

Our products can be used in construction projects great and small. Used correctly they are the best injectors available on the market and are the first choice of construction experts.

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## D18C / D18C+

SKU:	010 0004 / 010 0005
Dimensions	Ø 27x107 (mm)
Borehole	Ø 18(±1,5) x 88 (mm)
Passage	Ø 8
Material	Polyethylen (PE-HD)
Valve	<b>No valve</b>
Coupling	Quick-release coupling 7,2mm
Coupling	geeignet für Mischerspitzze
Sealing	7 fins, progressive
Suitable for:	✓ Hydrophobic silicone fluids
	✓ GEL-Injection
	✓ Epoxy- and
	✓ Polyurethane-based sealers
Applications::	✓ Cement-grout
	✓ Crack repair
	✓ Horizontal damp-proof barriers
	✓ Mould abatement



The **D18C** is designed with a quick connector for use with low pressure pumps. By omitting a valve **the outlet at 8mm is downright huge** and suitable for use with large quantities or mineral grout with coarse grit, making the **D18C** your **first choice** for filling cavities in the ground or behind walls in basements or tunnels. The huge outlet allows free flow which avoids a segregation of the material.

The enlarged eighth plate (used with a setting mounting tool) helps to ensure that the packer is not seated too far into the wall, so the clutch is always reachable.

Our single use injectors negate the need for cleaning or removal like traditional steel packers. After application, the packer remains in the wall and can be cut off flush to the wall. In this packer, no valve is fitted. To close the packer after application, caps are available (**Kappe/C**).

Our products can be used in construction projects great and small. Used correctly they are the best injectors available on the market and are the first choice of construction experts. We do not make any claims as to the maximum back-pressure our products can withstand. You, as construction professionals can judge the conditions present in your own projects and use our products accordingly.

To avoid damage of the quick-coupling clutch and to set the Packer correctly in the borehole, it is necessary to use the setting tool (**ESH/C**).

### Accessory



**Accessory: Setting tool - ESH/C**  
**Cap - Kappe/C**

**[SKU 030 0002]**  
**[SKU 030 0004]**

## D18CF

SKU:	010 0006
Dimensions	∅ 27x107 (mm)
Borehole	∅ 18(±1,5) x 88 (mm)
Passage	∅ 4,5mm
Material	Polyethylen (PE-HD)
Valve	Plastic ball, spring-loaded
Coupling	Quick-release coupling 7,2mm
Coupling	appropriate for mixing-tips and ES-D
Sealing	7 fins, progressive
Suitable for:	✓ Hydrophobic silicone fluids
	✓ GEL-Injection
	✓ Epoxy- and
	✓ Polyurethane-based sealers
	✓ Cement-grout
Applications::	✓ Crack repair
	✓ Horizontal damp-proof barriers
	✓ Mould abatement



The **D18CF** is designed with a quick connector for use with low pressure pumps. The spring-loaded valve with a **passband of 4.5 mm** is suitable for filling large volumes with viscous materials or mineral grout, making the **D18CF** very versatile.

The enlarged eighth plate (used with a setting mounting tool) helps to ensure that the packer is not seated too far into the wall, so the clutch is always reachable.

Our single use injectors negate the need for cleaning or removal like traditional steel packers. After application, the packer remains in the wall and can be cut off flush to the wall. The free-running ball valve ensures a secure closure, provided a backpressure of at least 3 bars is present.

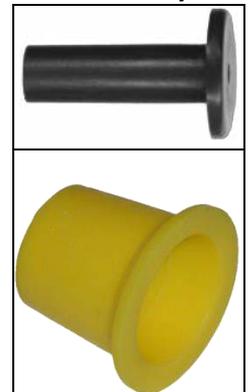
In low-pressure applications (less than 3 bars), the ball-closure may not close. In this case, caps are available (**Kappe/C**).

Our products can be used in construction projects great and small. Used correctly they are the best injectors available on the market and are the first choice of construction experts.

We do not make any claims as to the maximum back-pressure our products can withstand. You, as construction professionals can judge the conditions present in your own projects and use our products accordingly.

To avoid damage of the quick-coupling clutch and to set the Packer correctly in the borehole, it is necessary to use the setting tool (**ESH/C**).

### Accessory



<b>Accessory: Setting tool - ESH/C</b>	<b>[SKU 030 0002]</b>
<b>Flathead coupling - ES-D</b>	<b>[SKU 030 0005]</b>
<b>Cap - Kappe/C</b>	<b>[SKU 030 0004]</b>

## D18CX

SKU:	010 0009
Dimensions	∅ 27x107 (mm)
Borehole	∅ 18(±1,5) x 88 (mm)
Passage	∅ 4,5mm
Material	Polyethylen (PE-HD)
Valve	<b>No valve</b> / appropriate for multi-stage injection
Coupling	Quick-release coupling 7,2mm
Coupling	appropriate for mixing-tips and ES-D
Sealing	7 fins, progressive
Suitable for:	✓ Hydrophobic silicone fluids
	✓ GEL-Injection
	✓ Epoxy- and
	✓ Polyurethane-based sealers
	✓ Cement-grout
Applications:	✓ Crack repair
	✓ Horizontal damp-proof barriers
	✓ Mould abatement



The **D18CX** is designed with a quick-coupling for use with low pressure pumps. It is also suitable for use with straight mixer tips (e.g. Sulzer® Mixpac™). The passage of 5 mm is suitable to e.g with a spear (∅ 5mm) **perform multistage injections**.

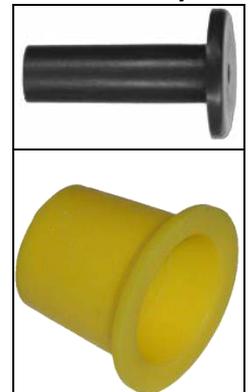
The enlarged eighth plate (used with a setting mounting tool) helps to ensure that the packer is not seated too far into the wall, so the clutch is always reachable.

Our single use injectors negate the need for cleaning or removal like traditional steel packers. After application, the packer remains in the wall and can be cut off flush to the wall. In this packer, no valve is fitted. To close the packer after application, caps are available (**Kappe/C**).

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To avoid damage of the quick-coupling clutch and to set the Packer correctly in the borehole, it is necessary to use the setting tool (**ESH/C**).

### Accessory



<b>Accessory: Setting tool - ESH/C</b>	<b>[SKU 030 0002]</b>
<b>Flathead coupling - ES-D</b>	<b>[SKU 030 0005]</b>
<b>Cap - Kappe/C</b>	<b>[SKU 030 0004]</b>

## D18CTF

SKU:	010 0007
Dimensions	∅ 27x107 (mm)
Borehole	∅ 18(±1,5) x 88 (mm)
Passage	∅ 4,5mm
Material	Polyethylen (PE-HD)
Valve	Plastic ball, spring-loaded
Coupling	Quick-release coupling 7,2mm
Coupling	appropriate for mixing-tips and ES-D
Sealing	7 fins, progressive
Suitable for:	<ul style="list-style-type: none"> <li>✓ Hydrophobic silicone fluids</li> <li>✓ GEL-Injection</li> <li>✓ Epoxy- and</li> <li>✓ Polyurethane-based sealers</li> <li>✓ Cement-grout</li> </ul>
Applications:	<ul style="list-style-type: none"> <li>✓ Crack repair</li> <li>✓ Horizontal damp-proof barriers</li> <li>✓ Mould abatement</li> </ul>



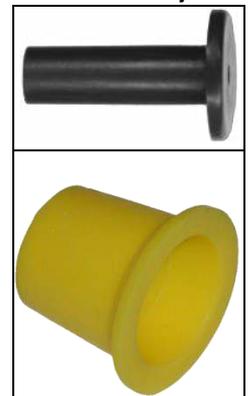
The **D18CTF** is designed with its quick connector for use with low pressure pumps. The spring-loaded valve with a pass band of 4.5 mm is suitable for filling large volumes, viscous materials or mineral grout with fine grit, making the D18CTF very versatile. The **special feature** of the D18CTF lies in the changed position of the valve. In comparison to the D18CF, the valve has been moved 20 mm further away from the coupling, **making it suitable for use at a 45 ° angle**. This ensures the valve stays intact after cutting.

The enlarged eighth plate (used with a setting mounting tool) helps to ensure that the packer is not seated too far into the wall, so the clutch is always reachable.

Our single use injectors negate the need for cleaning or removal like traditional steel packers. After application, the packer remains in the wall and can be cut off flush to the wall. The free-running ball valve ensures a secure closure, provided a backpressure of at least 3 bars is present. In low-pressure applications (less than 3 bars), the ball-closure may not close. In this case, caps are available (**Kappe/C**).

To avoid damage of the quick-coupling clutch and to set the Packer correctly in the borehole, it is necessary to use the setting tool (**ESH/C**).

### Accessory



<b>Accessory: Setting tool - ESH/C</b>	<b>[SKU 030 0002]</b>
<b>Flathead coupling - ES-D</b>	<b>[SKU 030 0005]</b>
<b>Cap - Kappe/C</b>	<b>[SKU 030 0004]</b>

## D18 tube extended / with infusion tube

Dimensions	Ø27x250-1573 (mm)		
Borehole	Ø18(±1,5) x 88 - 1573 (mm)		
Passage	Ø4,5 / Ø8		
Material	Polyethylen (PE-HD)		
Valve	Plastic ball, spring-loaded / none		
Anschluss	Quick-release coupling 7,2mm		
Sealing	7 fins, progressive		
Suitable for:	<ul style="list-style-type: none"> <li>✓ GEL-Injection</li> <li>✓ Epoxy-based sealers</li> <li>✓ Polyurethane-based sealers</li> <li>✓ silicification solution</li> <li>✓ Cement grout</li> <li>✓ Cement haze</li> <li>✓ Hydrophobic agents</li> </ul>	Applications:	<ul style="list-style-type: none"> <li>✓ Exterior waterproofing</li> <li>✓ Cavity filling</li> <li>✓ GEL-Injection</li> <li>✓ Pressure-pulse-method injection</li> <li>✓ Silification</li> <li>✓ Concrete haze injection</li> </ul>

### D18C-RF and D18CF-RF Injection Packer with tube extension and fan-tip for for Gel-Injection / exterior waterproofing



The tube extended (Ø 16mm) packer, is for GEL-injection, that brings the material directly through to the other side of the wall. Cavities in the wall are bridged by the pipe.

The tip is formed so that it not only facilitates the insertion, it also ensures that the material, during the pressing process, does not simply forward outlet, but is distributed laterally to the tube tip.

#### Accessory

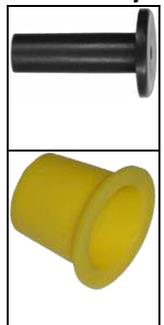


### D18CF-IR with infusion-tube for concrete haze injection / pressure-pulse-method injection



The infusion tube has spray bores (Ø 1mm) in a V-formation at a 60 ° angle in a distance of 80mm. The D18CF-IR is developed specifically for hydrophobing agents and emulsions, which are introduced through a pressure pulse method. Through the pressure pulses, the borehole is only moistened - the material pulls itself into the wall. After an exposure further impetus is required to help increase the penetration of the agent. In this procedure no large quantities are compressed, so hollow and double-shell masonry can be rehabilitated too.

#### Accessory



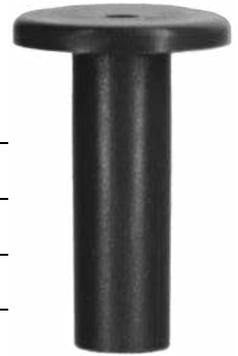
Different drill-diameters (up to Ø 3mm) for other applications are available on request.

To avoid damage of the quick-coupling clutch and to set the Packer correctly in the borehole, it is necessary to use the setting tool (ESH/C).

The specified length of the packer is the distance from the large plate to the outlet openings at the top, corresponding to the wall thickness. **All intermediate lengths from 250mm up to 1500mm** are available.

<b>Accessory: Setting tool - ESH/C</b>	<b>[SKU 030 0002]</b>
<b>Flathead coupling - ES-D</b>	<b>[SKU 030 0005]</b>
<b>Cap - Kappe/C</b>	<b>[SKU: 030 0004]</b>

ES-D



SKU:	030 0005
Coupling	Flathead
Coupling	Appropriate for coupling type C
Sealing	n/a
Material:	Polyoxymethylen (POM)
Suitable for:	✓ Injection packerD12C
	✓ Injection packerD12CX
	✓ Injection packerD18CX
	✓ Injection packerD18CF
	✓ Injection packerD18CTF
Coupling	Flathead

We made a **port expansion** for the most of our Packers with **connection type C** (quick-release coupling 7,2mm)!

Our packers in conjunction with the ES-D, makes it possible using pumps with **flathead connectors**, to operate with.

With the injection packers D12CX and D18CX the possibility for multi-stage application is given.

To pursue the ES-D into the injection packers, no special tools are required. We recommend using a safety hammer.

Cap - Kappe/C



SKU:	030 0004
Coupling	Appropriate for coupling type C
Sealing	n/a
Suitable for:	✓ Injection packerD12C
	✓ Injection packerD12CX
	✓ Injection packerD18CX
	✓ Injection packerD18CF
	✓ Injection packerD18CTF

Mainly the Kappe/C is for the Injection Packer without valve - D12CX, D18C and D18CX - provided. But when using our packers with valve - D18CF, D18CTF, D12C - in conjunction with very low viscosity materials it's may be necessary to close the packer.

Mainly the Kappe/A is for the Injection Packer D12A provided. When using our packers in conjunction with very low viscosity materials it's may be necessary to close the packer.