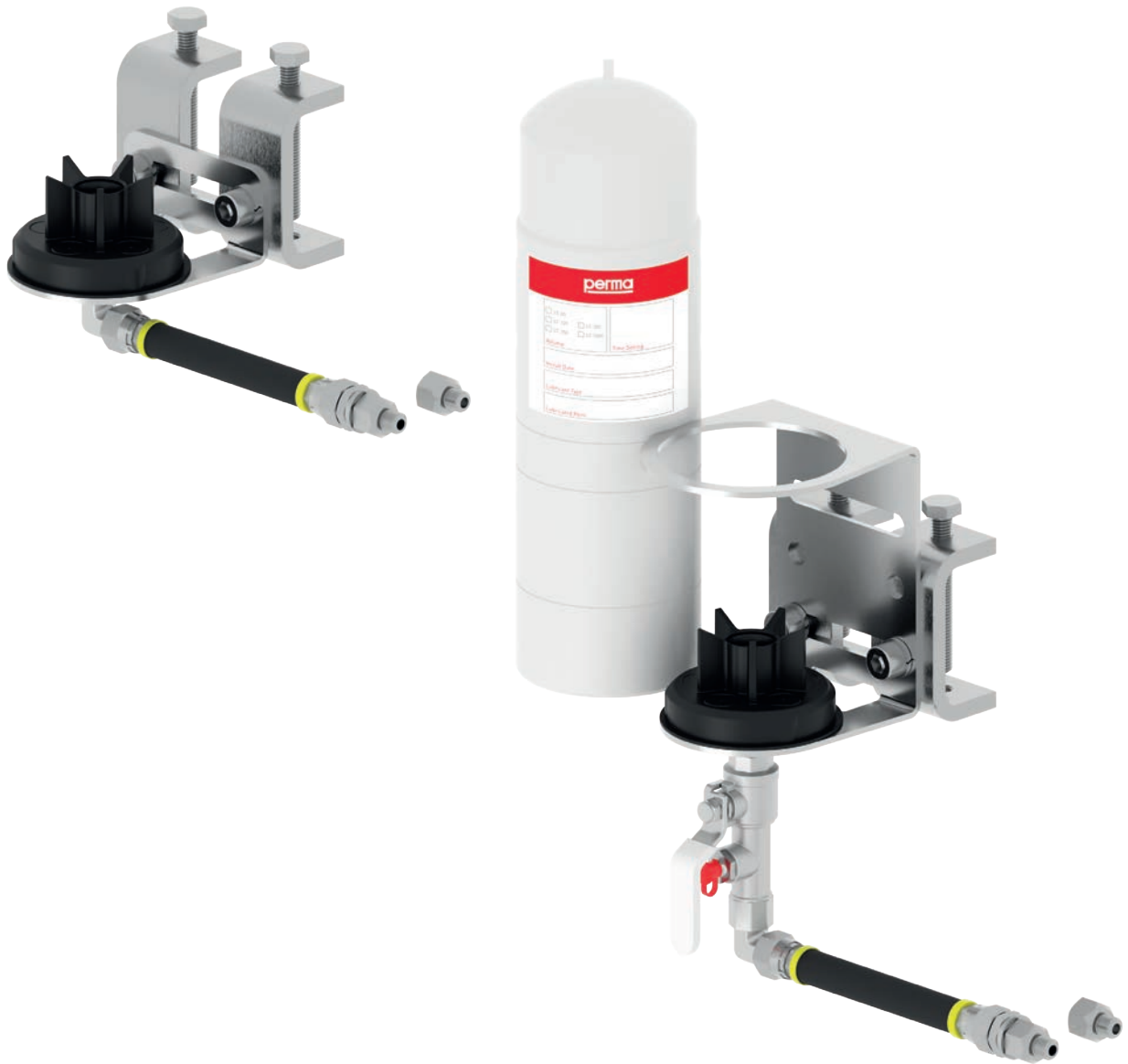


# INSTALLATION GUIDE

ACCESSORY KITS AND INSTALLATION KITS STAR





## ACCESSORY KITS and INSTALLATION KITS STAR Standard and Heavy Duty

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General information



## Sets STAR Standard Duty

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Installation

This Installation guide provides instructions for the installation of ACCESSORY KITS and INSTALLATION KITS STAR and helps in preventing basic mounting errors. The guide should be used with the operating instructions.

Drawings are only examples. There are many other possibilities for mounting, depending on local conditions.

Disclaimers of corresponding operating instructions apply.

Installation guides do not affect validation of the operating instructions.

## ACCESSORY KITS and INSTALLATION KITS STAR Standard and Heavy Duty



### STANDARD DUTY KIT

These kits are very versatile and can be used in areas with normal ambient conditions.

### HEAVY DUTY KIT

Heavy Duty kits have been specifically designed for use in operational areas with harsh ambient conditions which are subject to regular wash down and water impact, such as the conditions found in coal handling preparation plants.

### INSTALLATION KITS

INSTALLATION KITS contain all necessary parts for the complete mounting of the lubrication system to the lubrication point: mounting bracket with mounting support, support flange, hose connectors, reducers and Heavy Duty hose.

### ACCESSORY KITS

The only difference between the ACCESSORY KITS and the INSTALLATION KITS is that no hose is included.

### BEAM CLAMP



### MOUNTING BRACKET CAGE HANGER



Standard Duty:  
Mounting bracket  
cage hanger



Heavy Duty:  
Cage hanger arm

## Kits STAR Standard Duty

Solutions for normal ambient conditions

ACCESSORY KITS and INSTALLATION KITS STAR Standard Duty have been especially designed for operation under normal ambient conditions. The kits contain all necessary parts, including a reducer M10x1 and G1/8 per lubrication point. Unlike the ACCESSORY KITS, the INSTALLATION KITS do already contain the hose.

### INSTALLATION KITS STAR (with hose) Standard Duty



1-point 65 mm  
beam clamp mount  
incl. 3 m hose

**Art. No. 116961**



1-point  
cage hanger mount  
incl. 3 m hose

**Art. No. 116962**



2-point 65 mm  
beam clamp mount  
incl. 5 m hose

**Art. No. 116963**



2-point  
cage hanger mount  
incl. 5 m hose

**Art. No. 116964**

### ACCESSORY KITS STAR (without hose) Standard Duty



1-point 65 mm  
beam clamp mount  
without hose

**Art. No. 116951**



1-point  
cage hanger mount  
without hose

**Art. No. 116952**



2-point 65 mm  
beam clamp mount  
without hose

**Art. No. 116953**



2-point  
cage hanger mount  
without hose

**Art. No. 116954**

## Content

Quantity	Description	
1 x	<b>Art. No. 109663</b> Mounting bracket 1-point or <b>Art. No. 109667</b> Mounting bracket 2-point or <b>Art. No. 109665</b> Mounting bracket cage hanger 1-point or <b>Art. No. 109668</b> Mounting bracket cage hanger 2-point	 Mounting bracket 1-point or 2-point    Mounting bracket cage hanger 1-point or 2-point
2 x	<b>Art. No. 109958</b> Beam clamp 65 mm (stainless steel) (only when mounting with beam clamp)	
1 x per lubrication point	<b>Art. No. 116602</b> Support flange STAR with cover clip for protection cap	
1 x per lubrication point	<b>Art. No. 111883</b> Angle 90° R1/4 male x 9/16 JIC male (stainless steel)	
2 x per lubrication point	<b>Art. No. 116624</b> Hose connector G1/4 male for hose iØ 9.5 mm - push-lock (steel, zinc-plated)	
3 m or 5 m*	<b>Art. No. 101555</b> Heavy Duty hose up to +100 °C oØ 16 mm x iØ 9.5 mm (with NBR lining and fabric insert)	
1 x per lubrication point	<b>Art. No. 104875</b> Reducer G1/8 male x G1/4 female (stainless steel)	
1 x per lubrication point	<b>Art. No. 104879</b> Reducer M10x1 male x G1/4 female (stainless steel)	

\*101555 Heavy Duty Hose is only included in INSTALLATION KITS and needs to be ordered separately in case of ACCESSORY KITS.

## Installation

### ACCESSORY KITS and INSTALLATION KITS STAR Standard Duty



All metal to metal connections must be glued together with Loctite® 243™

#### Install mounting bracket

Installation with beam clamp: Screw together mounting bracket and both beam clamps using a connecting screw. Fix to a suitable part of the equipment part using a clamp screw.



Installation on protective grille: Fix mounting bracket cage hanger to a suitable equipment part



#### Hand-screw support flange STAR with cover clip for protection cap on mounting bracket



#### Fix tube connector to mounting bracket

Hand-screw hexagon nipple of tube connector (116624) into mounting bracket or (only if required): Hand-screw angle 90° into mounting bracket



#### Clean lubrication point, remove lubrication nipple and hand-screw suitable reducer into lubrication point



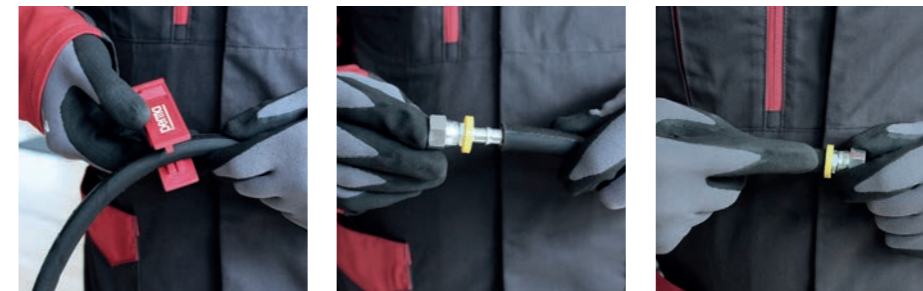
Determine thread size at the lubrication point with perma fitting thread tester Art. No. 110374



#### Hand-screw hexagon nipple of tube connector into reducer

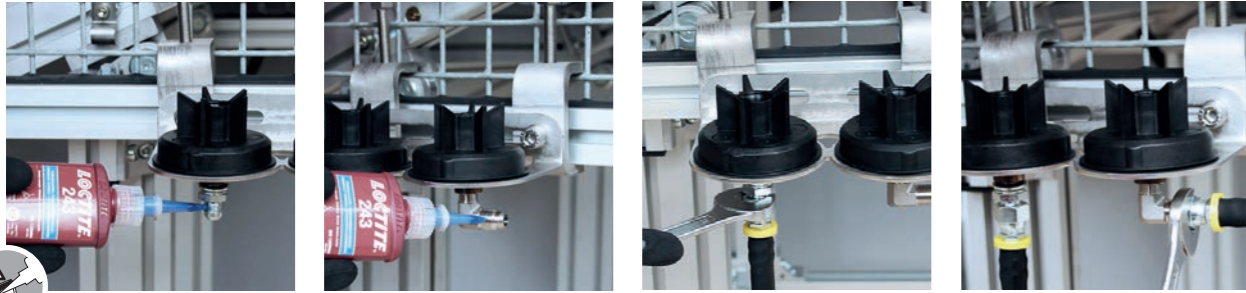


Shorten hose to required length using a tube cutter; press tube connectors into the hose using a suitable tool until the yellow tube marking touches the hose and the tube connector's hexagon



Hose mounting tool for Heavy Duty hose connector Art. No. 113877

Install hose on hexagon nipple resp. on angle 90° (on the side of the mounting bracket)



Fill hose with grease using a grease gun and prefill adapter, starting from mounting bracket until grease can be seen at the end of the line, then stop for an instant



Install tube connector on lubrication point



Fill accessories and lubrication point using a grease gun and prefill adapter with several strokes  
Remove grease gun and prefill adapter, install lubrication system



## Kits STAR Heavy Duty

Solutions for extreme ambient conditions

ACCESSORY KITS and INSTALLATION KITS STAR Heavy Duty have been specifically designed for use in operational areas with harsh ambient conditions. The kits contain all necessary parts, including a protection cap STAR Heavy Duty, a purge connection with manual valve and a reducer M10x1 and G1/8 per lubrication point. Unlike the ACCESSORY KITS, the INSTALLATION KITS do already contain the hose.

### INSTALLATION KITS STAR (with hose) Heavy Duty



1-point 65 mm  
beam clamp mount  
incl. 3 m hose

**Art. No. 116965**



1-point  
cage hanger mount  
incl. 3 m hose

**Art. No. 116966**



2-point 65 mm  
beam clamp mount  
incl. 5 m hose

**Art. No. 116967**



2-point  
cage hanger mount  
incl. 5 m hose

**Art. No. 116968**

### ACCESSORY KITS STAR (without hose) Heavy Duty



1-point 65 mm  
beam clamp mount  
without hose

**Art. No. 116955**



1-point  
cage hanger mount  
without hose

**Art. No. 116956**



2-point 65 mm  
beam clamp mount  
without hose

**Art. No. 116957**



2-point cage  
hanger mount  
without hose

**Art. No. 116958**

## Content

Quantity	Description	
1 x	<b>Art. No. 109664</b> Mounting bracket STAR Heavy Duty C-section 1-point or <b>Art. No. 108648</b> Mounting bracket STAR Heavy Duty C-section 2-point	  Mounting bracket 1-point      Mounting bracket 2-point
2 x	<b>Art. No. 109958</b> Beam clamp 65 mm (stainless steel) or <b>Art. No. 109959</b> Cage hanger arm	 
1 x per lubrication point	<b>Art. No. 116602</b> Support flange STAR with cover clip for protection cap and <b>Art. No. 109999</b> Protection cap STAR Heavy Duty 250	 
1 x per lubrication point	<b>Art. No. 113972</b> Purge connection with manual valve R1/4 male x G1/4 female (brass nickel-plated)	
1 x per lubrication point	<b>Art. No. 111883</b> Angle 90° R1/4 male x 9/16 JIC male (stainless steel)	
2 x per lubrication point	<b>Art. No. 116624</b> Hose connector G1/4 male for hose iØ 9.5 mm - push-lock (steel, zinc-plated)	
3 m or 5 m*	<b>Art. No. 101555</b> Heavy Duty hose up to +100 °C oØ 16 mm x iØ 9.5 mm (with NBR lining and fabric insert)	
1 x per lubrication point	<b>Art. No. 104875</b> Reducer G1/8 male x G1/4 female (stainless steel) and <b>Art. No. 104879</b> Reducer M10x1 male x G1/4 female (stainless steel)	 

\*101555 Heavy Duty Hose is only included in INSTALLATION KITS and needs to be ordered separately for ACCESSORY KITS.

## Installation

### ACCESSORY KITS and INSTALLATION KITS STAR Heavy Duty



All metal to metal connections must be glued together with Loctite® 243™

#### Install mounting bracket

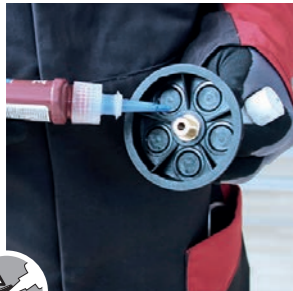
Installation with beam clamp: Screw together mounting bracket and both beam clamps using a connecting screw  
Fix to a suitable equipment part using a clamp screw



Installation on protective grille: Fix mounting bracket and cage hanger arm using a connecting screw  
Fix to a suitable equipment part



#### Hand-screw support flange STAR with cover clip for protection cap on mounting bracket



#### Screw purge connection into mounting bracket

**ATTENTION!** Watch for easy access to lubrication nipple when fixing the accessory



#### Fix tube connector to purge connection

Hand-screw hexagon nipple of the tube connector (116624) into mounting bracket or  
(only if required): hand-screw angle 90° into mounting bracket



#### Clean lubrication point, remove lubrication nipple and hand-screw appropriate reducer into lubrication point



#### Screw hexagon nipple into tube connector of the reducer



Determine thread size at the lubrication point with perma fitting thread tester **Art. No. 110374**



Shorten hose to required length using a tube cutter; press tube connectors into the hose using suitable tools until the yellow tube marking touches the hose and the tube connector's hexagon



Install hose on hexagon nipple resp. on angle 90° on the side of the mounting bracket



Fill hose with grease using a grease gun and prefill adapter, starting from mounting bracket until grease can be seen at the end of the line, then stop for an instant



Fix tube connector to lubrication point



Fill accessories and lubrication point using a grease gun and prefill adapter with several strokes  
Remove grease gun and prefill adapter, install lubrication system



Hose mounting tool for Heavy Duty hose connector  
Art. No. 113877





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