

Please read and observe

these operating instructions carefully! Non-observation of the information it contains may lead to coupling malfunction or failure and consequential damage.



Shaft-hub connections of Schmidt-Kupplung®



Hub version 3
Locking assembly
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Danger and information symbols



Caution! Danger of personal injury and machine damage.



Note! Important points to observe.

Schmidt-Kupplung®

For extreme parallel offset the Schmidt-Kupplung® is a compact, torsionally stiff performance shaft coupling and compensates variable parallel shaft offset without side loads in a very compact envelope.

The Schmidt-Kupplung® is the ideal precision component for small envelopes.

These installation and operating instructions are an integral part of your Schmidt-Kupplung®. They provide important information about correctly installation, operating and maintenance of your coupling.



Please read these instructions carefully and observe all notes.



The coupling must be installed only by qualified and trained personnel.



Schmidt-Kupplung® must be used only as outlined in the associated technical specifications.

Please read and observe

these operating instructions carefully! Non-observation of the information it contains may lead to coupling malfunction or failure and consequential damage.

Manufacturer's Declaration

This product is a component intended for installation in a plant or machine as defined by Machinery Safety Directive 98/37/EC. Commissioning must be performed only after the machine or plant in which this product is to be fitted has been confirmed as conforming to the requirements of the above EC Directive.

Safety instructions

These installation and operating instructions are an integral part of your Schmidt-Kupplung®. Always keep these instructions in an easily accessible place near the coupling. They provide important information about correctly fitting, operating and maintaining your coupling. Please read these instructions carefully and observe all notes.

Schmidt-Kupplung® must be used only as outlined in the associated technical specifications.



Danger! Rotating drive components are potential for danger!

All persons working on or operating the machine or plant must observe the applicable safety regulations and instructions and take appropriate safety precautions. The machine's owner/operator is responsible for ensuring that all necessary safety precautions are in place and that the personnel has been appropriately instructed. The drive components must be used only for their intended purpose and within their specified technical operation limits.



Modifications

The product must not be reworked or otherwise modified.



The coupling must be installed only by qualified, trained personnel.



Carefully read these installation and operating instructions before fitting and commissioning the coupling.

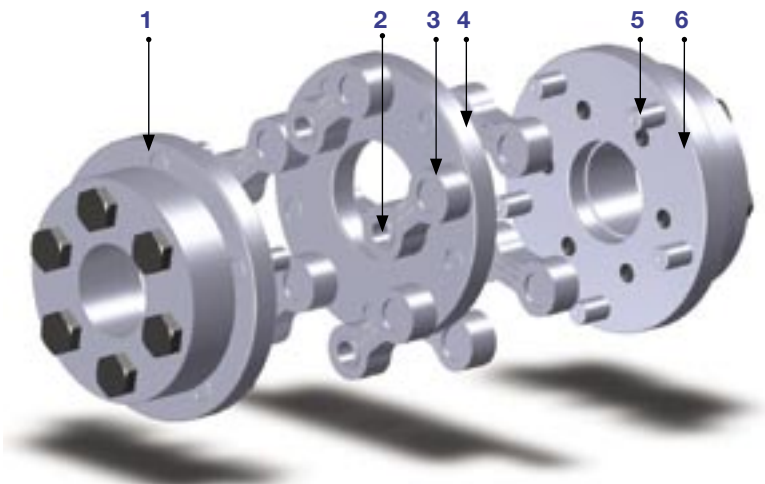


The notes on safety contained in these instructions do not represent completeness.

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Assembly of Schmidt-Kupplung®



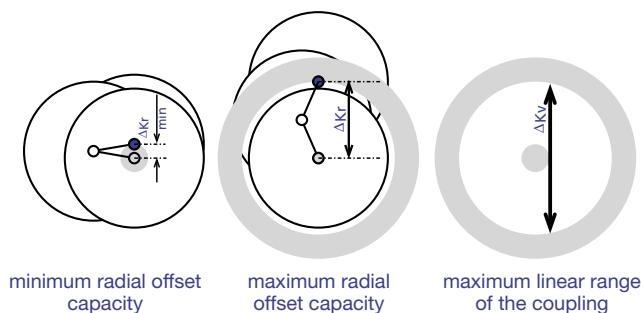
Parts list

- 1 Input hub
- 2 Needle bearing
- 3 Coupling link with funnel-type grease nipple)
- 4 Centre disk
- 5 Drive pins
- 6 Output hub

Function

The Schmidt-Kupplung® consists of three coupling disks that are connected by two sets of minimum 3 parallel coupling links. The links are connected to drive pins on the disks and are equipped with needle bearings. They have the task of transmitting the torsional forces as thrust forces between the disks. Rotary and swivelling motion is transmitted accurately and with low backlash. For minimum misalignment figures ($\Delta K_{r\min}$) see table 1. These values must be maintained. A zero radial offset is not permissible during installation and in operation.

Radial misalignment



minimum radial offset capacity

maximum radial offset capacity

maximum linear range of the coupling

State of delivery

Schmidt-Kupplung® is supplied lubricated and ready for use. At high ambient temperatures, high speeds and in contaminated environments we recommend lubrication with Klüber Staburags NBU 12-300 KP grease (see page 10). Normally the coupling elements are fitted with funnel type grease nipples. Contaminated environments can impair the effectiveness of the lubrication. Keep dirt, caustic solutions, fibres and similar substances away from the

coupling.

Observe the recommended lubrication intervals. Although exceptionally rugged, Schmidt-Kupplung® should be protected from external forces. After the goods-in inspection, keep them in their original packaging until they are ready to be fitted at their installation site. Special packaging, such as overseas packaging or for long-term corrosion protection, is available by special arrangement.



Caution!

Danger of injury through moving parts. Avoid unintentional disassembly through change of coupling's length (do not pull the coupling apart, as parts may drop out).



The product must not be reworked or otherwise modified. SCHMIDT-KUPPLUNG GmbH does not accept liability for any loss or damage resulting from such modifications.

Temperature stability

The couplings are suitable for continuous operation temperatures from -20 °C to +110 °C. If operating temperatures are likely to lie outside this range, please consult the manufacturer.

Maximum bore diameter

Schmidt-Kupplung® are supplied ready to install with the desired bore diameter.



SCHMIDT-KUPPLUNG GmbH does not accept liability for any couplings with prebored hubs that have been reworked by the customer. The customer is solely responsible for any consequential loss, damage or injury in this case.



Caution!

Do not exceed the maximum bore diameter ($\varnothing d$) for the Schmidt-Kupplung® (see the technical documentation for your coupling). Larger bores can result in destruction of the coupling. Coupling fragments hurled at high speed can cause serious or fatal injury.

Misalignment capacity ratings

Schmidt-Kupplung® compensates variable parallel shaft offset without side loads in a very compact envelope.

Radial offset

Schmidt-Kupplung® always need a certain minimum radial offset. For minimum offset figures (ΔK_r , min) see table 1.

These ratings must be maintained. A zero radial offset is not permissible during installation and in operation.

Observe the maximum radial offset capacity ΔK , and the maximum linear range of the coupling ΔK_v (see table 1).

Axial misalignment

The installation dimension L must not be less than the ratings given in table 3. To compensate for thermal expansion, for example an extension of ΔK_a is permissible. It is recommended that the coupling is operated near its nominal length. The couplings are not axially fixed and can therefore be used for an axial installation.

Angular misalignment

Angular misalignment also affects the coupling's lifespan. The angular misalignment should remain within the specified ratings.



The maximum angular misalignment and the maximum deviation from the overall length must not occur at the same time.

Table 1: For the maximum misalignment ratings see next page.

Table 1: Maximum misalignment ratings

| Model | ΔK_v (mm) | $\Delta K_{r \min}$ (mm) | ΔK_r (mm) | ΔK_a (mm) | ΔK_w (°) |
|-----------------|----------------------|-----------------------------|----------------------|----------------------|---------------------|
| Standard | | | | | |
| S 35 | 45 | 6 | 23 | 1 | 0,8 |
| S 40 | 95 | 13 | 50 | 1 | 0,8 |
| S 45 | 45 | 6 | 23 | 1 | 0,8 |
| S 115 | 64 | 9 | 34 | 1 | 0,8 |
| S 150 | 126 | 17 | 66 | 1 | 0,8 |
| S 155 | 64 | 9 | 34 | 1 | 0,8 |
| S 210 | 126 | 17 | 66 | 1 | 0,8 |
| S 215 | 64 | 9 | 34 | 1 | 0,8 |
| S 285 | 100 | 14 | 53 | 1 | 0,5 |
| S 360 | 162 | 22 | 85 | 1 | 0,5 |
| S 365 | 100 | 14 | 53 | 1 | 0,5 |
| S 440 | 162 | 22 | 85 | 1 | 0,5 |
| S 445 | 100 | 14 | 53 | 1 | 0,5 |
| S 630 | 162 | 22 | 85 | 1 | 0,5 |
| S 635 | 122 | 17 | 64 | 1 | 0,5 |
| S 760 | 162 | 22 | 85 | 1 | 0,5 |
| S 765 | 122 | 17 | 64 | 1 | 0,5 |
| S 950 | 162 | 22 | 85 | 1 | 0,5 |
| S 955 | 122 | 17 | 64 | 1 | 0,5 |
| S 1130 | 180 | 25 | 95 | 1 | 0,5 |
| S 1135 | 129 | 18 | 68 | 1 | 0,5 |
| S 1320 | 180 | 25 | 95 | 1 | 0,5 |
| S 1325 | 129 | 18 | 68 | 1 | 0,5 |
| S 1520 | 180 | 25 | 95 | 1 | 0,5 |
| S 1525 | 129 | 18 | 68 | 1 | 0,5 |
| S 2160 | 219 | 30 | 115 | 2 | 0,3 |
| S 2165 | 162 | 22 | 85 | 2 | 0,3 |
| S 2870 | 219 | 30 | 115 | 2 | 0,3 |
| S 2875 | 162 | 22 | 85 | 2 | 0,3 |

| Model | ΔK_v (mm) | $\Delta K_{r \min}$ (mm) | ΔK_r (mm) | ΔK_a (mm) | ΔK_w (°) |
|-------------------|----------------------|-----------------------------|----------------------|----------------------|---------------------|
| Power Plus | | | | | |
| P 3830 | 219 | 30 | 115 | 2 | 0,3 |
| P 3835 | 162 | 22 | 85 | 2 | 0,3 |
| P 4800 | 219 | 30 | 115 | 2 | 0,3 |
| P 4805 | 162 | 22 | 85 | 2 | 0,3 |
| P 6610 | 219 | 30 | 115 | 2 | 0,2 |
| P 6615 | 162 | 22 | 85 | 2 | 0,2 |

| Model | ΔK_v (mm) | $\Delta K_{r \min}$ (mm) | ΔK_r (mm) | ΔK_a (mm) | ΔK_w (°) |
|--------------------|----------------------|-----------------------------|----------------------|----------------------|---------------------|
| Offset Plus | | | | | |
| V 65 | 151 | 21 | 79 | 1 | 0,5 |
| V 210 | 216 | 30 | 114 | 1 | 0,5 |
| V 290 | 360 | 50 | 190 | 1 | 0,5 |
| V 440 | 216 | 30 | 114 | 1 | 0,5 |
| V 680 | 396 | 55 | 209 | 1 | 0,3 |
| V 700 | 216 | 30 | 114 | 1 | 0,5 |
| V 760 | 216 | 30 | 114 | 1 | 0,5 |
| V 950 | 270 | 37 | 142 | 1 | 0,5 |
| V 955 | 216 | 30 | 114 | 1 | 0,5 |
| V 1200 | 432 | 60 | 228 | 1 | 0,3 |
| V 1320 | 234 | 32 | 123 | 1 | 0,5 |
| V 1520 | 320 | 44 | 169 | 1 | 0,5 |
| V 1525 | 234 | 32 | 123 | 1 | 0,5 |
| V 2100 | 504 | 70 | 266 | 1 | 0,3 |
| V 2160 | 270 | 37 | 142 | 2 | 0,3 |
| V 2875 | 270 | 37 | 142 | 2 | 0,3 |
| V 3300 | 522 | 72 | 275 | 2 | 0,2 |
| V 3840 | 270 | 37 | 142 | 2 | 0,3 |

| Model | ΔK_v (mm) | $\Delta K_{r \min}$ (mm) | ΔK_r (mm) | ΔK_a (mm) | ΔK_w (°) |
|-------------------|----------------------|-----------------------------|----------------------|----------------------|---------------------|
| Power Plus | | | | | |
| P 45 | 45 | 6 | 23 | 1 | 0,5 |
| P 60 | 45 | 6 | 23 | 1 | 0,5 |
| P 110 | 95 | 13 | 50 | 1 | 0,5 |
| P 115 | 45 | 6 | 23 | 1 | 0,5 |
| P 200 | 64 | 9 | 34 | 1 | 0,5 |
| P 250 | 64 | 9 | 34 | 1 | 0,5 |
| P 280 | 126 | 17 | 66 | 1 | 0,5 |
| P 285 | 64 | 9 | 34 | 1 | 0,5 |
| P 350 | 126 | 17 | 66 | 1 | 0,5 |
| P 355 | 64 | 9 | 34 | 1 | 0,5 |
| P 590 | 162 | 22 | 85 | 1 | 0,5 |
| P 595 | 100 | 14 | 53 | 1 | 0,5 |
| P 700 | 162 | 22 | 85 | 1 | 0,5 |
| P 705 | 100 | 14 | 53 | 1 | 0,5 |
| P 1010 | 162 | 22 | 85 | 1 | 0,5 |
| P 1015 | 122 | 17 | 64 | 1 | 0,5 |
| P 1580 | 162 | 22 | 85 | 1 | 0,5 |
| P 1585 | 122 | 17 | 64 | 1 | 0,5 |
| P 2880 | 162 | 22 | 85 | 2 | 0,3 |

Installation



Refer to the list of dimensions or assembly drawing. Observe installation dimensions, especially the permissible min./max. radial offset (see table 1). The couplings are normally assembled as complete units. If a coupling, for example, with two standard hubs (hub version 6), is dismantled and the hubs are fitted to the shafts individually, make sure that the bearings and drive pins remain clean and undamaged. When assembling the coupling, be aware that the seals and escaping air will offer some resistance, but do not apply force. Make sure the coupling is pushed together to its nominal overall length. All coupling links of each set must be parallel to each other when the coupling is fitted. The shaft ends to be joined and the bores of the hubs must be clean, dry and free from burrs. Check the connection dimensions and tolerances. Set the overall length according to table 3 or drawing (in the delivery condition, the lower limit dimension is often used). Take into account the direction and magnitude of any length changes, for example in long shafts that are exposed to heat. Protect the coupling from direct exposure to heat, dust, sand, solvents etc. (for example with a metal enclosure).



Caution! Make sure the coupling does not accidentally come apart during installation and dismounting. Take care when transporting, installation and assembling the coupling. Do not pull the coupling apart, as components may drop out.

Hub version 3

with locking assembly



The bores are supplied in tolerance F7 .

The locking assembly versions transmit the torque to the shaft through the outer and inner rings, which have a friction fit between each other and with the hub. Tightening screws are used to secure the hub to the shaft. Before they are tightened, there is a clear gap between the outer ring and the coupling. The gap width and number of screws are matched so that enough spare tightening capacity remains after closing the gap to tighten the outer ring against the coupling. Before installation, degrease the shaft and the coupling's mounting face. Loosely assemble the coupling and locking assembly, slide it onto the shaft and adjust the length. Tighten the screws in several stages up to their full tightening torque (see table 2). To remove the coupling from the shaft, undo the tightening screws one after the other in several stages.

Table 2: For screw tightening torques see next page



Hub version 3

with locking assembly

Table 2: Screw tightening torques

| Model | Screw size | Tightening torque (Nm) |
|-----------------|------------|------------------------|
| Standard | | |
| S 35 | M6 | 12 |
| S 40 | M6 | 12 |
| S 45 | M6 | 12 |
| S 115 | M8 | 29 |
| S 150 | M8 | 29 |
| S 155 | M8 | 29 |
| S 210 | M10 | 58 |
| S 215 | M10 | 58 |
| S 285 | M10 | 58 |
| S 360 | M10 | 58 |
| S 365 | M10 | 58 |
| S 440 | M10 | 58 |
| S 445 | M10 | 58 |
| S 630 | M12 | 100 |
| S 635 | M12 | 100 |
| S 760 | M10 | 58 |
| S 765 | M10 | 58 |
| S 950 | M12 | 100 |
| S 955 | M12 | 100 |
| S 1130 | M12 | 100 |
| S 1135 | M12 | 100 |
| S 1320 | M12 | 100 |
| S 1325 | M12 | 100 |
| S 1520 | M16 | 240 |
| S 1525 | M16 | 240 |
| S 2160 | M12 | 100 |
| S 2165 | M12 | 100 |
| S 2870 | M16 | 240 |
| S 2875 | M16 | 240 |

| | | |
|-------------------|-----|-----|
| Power Plus | | |
| P 45 | M6 | 12 |
| P 60 | M6 | 12 |
| P 110 | M6 | 12 |
| P 115 | M6 | 12 |
| P 200 | M8 | 29 |
| P 250 | M8 | 29 |
| P 280 | M10 | 58 |
| P 285 | M10 | 58 |
| P 350 | M10 | 58 |
| P 355 | M10 | 58 |
| P 590 | M10 | 58 |
| P 595 | M10 | 58 |
| P 700 | M12 | 100 |
| P 705 | M12 | 100 |
| P 1010 | M12 | 100 |
| P 1015 | M12 | 100 |
| P 1580 | M12 | 100 |
| P 1585 | M12 | 100 |

| | | |
|-------------------|-----|-----|
| Power Plus | | |
| P 3440 | M16 | 240 |
| P 3445 | M16 | 240 |
| P 2880 | M16 | 240 |
| P 3830 | M16 | 240 |
| P 3835 | M16 | 240 |
| P 4800 | M16 | 240 |
| P 4805 | M16 | 240 |
| P 6610 | M16 | 240 |
| P 6615 | M16 | 240 |

| | | |
|--------------------|-----|-----|
| Offset Plus | | |
| V 65 | M6 | 12 |
| V 210 | M8 | 29 |
| V 290 | M10 | 58 |
| V 440 | M10 | 58 |
| V 680 | M10 | 58 |
| V 700 | M10 | 58 |
| V 760 | M12 | 100 |
| V 950 | M12 | 100 |
| V 955 | M12 | 100 |
| V 1200 | M12 | 100 |
| V 1320 | M12 | 100 |
| V 1520 | M12 | 100 |
| V 1525 | M12 | 100 |
| V 2100 | M16 | 240 |
| V 2160 | M16 | 240 |
| V 2875 | M16 | 240 |
| V 3300 | M16 | 240 |
| V 3840 | M16 | 240 |

Table 3: Installation length (mm)

| Model | Hub version 3 | Hub version 5 | Hub version 6 |
|-------------------|---------------|---------------|---------------|
| Standard | | | |
| S 35 | 74 | 44 | 60 |
| S 40 | 74 | 44 | 60 |
| S 45 | 74 | 44 | 60 |
| S 115 | 108 | 74 | 94 |
| S 150 | 116 | 74 | 104 |
| S 155 | 116 | 74 | 104 |
| S 210 | 124 | 74 | 104 |
| S 215 | 124 | 74 | 104 |
| S 285 | 151 | 101 | 143 |
| S 360 | 151 | 101 | 143 |
| S 365 | 151 | 101 | 143 |
| S 440 | 151 | 101 | 143 |
| S 445 | 151 | 101 | 143 |
| S 630 | 194 | 134 | 162 |
| S 635 | 194 | 134 | 162 |
| S 760 | 184 | 134 | 170 |
| S 765 | 184 | 134 | 170 |
| S 950 | 202 | 134 | 192 |
| S 955 | 202 | 134 | 192 |
| S 1130 | 209 | 155 | 185 |
| S 1135 | 209 | 155 | 185 |
| S 1320 | 223 | 155 | 195 |
| S 1325 | 223 | 155 | 195 |
| S 1520 | 235 | 155 | 215 |
| S 1525 | 235 | 155 | 215 |
| S 2160 | 264 | 196 | 236 |
| S 2165 | 264 | 196 | 236 |
| S 2870 | 284 | 196 | 266 |
| S 2875 | 284 | 196 | 266 |
| Power Plus | | | |
| P 45 | 74 | 44 | 60 |
| P 60 | 74 | 44 | 60 |
| P 110 | 82 | 44 | 78 |
| P 115 | 82 | 44 | 78 |
| P 200 | 116 | 74 | 104 |
| P 250 | 112 | 74 | 104 |
| P 280 | 124 | 74 | 104 |
| P 285 | 124 | 74 | 104 |
| P 350 | 124 | 74 | 104 |
| P 355 | 124 | 74 | 104 |
| P 590 | 151 | 101 | 143 |
| P 595 | 151 | 101 | 143 |
| P 700 | 161 | 101 | 143 |
| P 705 | 161 | 101 | 151 |

| Model | Hub version 3 | Hub version 5 | Hub version 6 |
|-------------------|---------------|---------------|---------------|
| Power Plus | | | |
| P 1010 | 194 | 101 | 143 |
| P 1015 | 194 | 134 | 170 |
| P 1580 | 202 | 134 | 170 |
| P 1585 | 202 | 134 | 192 |
| P 2880 | 276 | 134 | 192 |
| P 3830 | 276 | 196 | 236 |
| P 3835 | 276 | 196 | 266 |
| P 4800 | 284 | 196 | 266 |
| P 4805 | 284 | 196 | 276 |
| P 6610 | 296 | 196 | 276 |
| P 6615 | 296 | 196 | 322 |

| Model | Hub version 3 | Hub version 5 | Hub version 6 |
|--------------------|---------------|---------------|---------------|
| Offset Plus | | | |
| V 65 | 82 | 48 | 72 |
| V 210 | 116 | 74 | 104 |
| V 290 | 124 | 74 | 124 |
| V 440 | 151 | 101 | 143 |
| V 680 | 151 | 101 | 151 |
| V 700 | 151 | 101 | 151 |
| V 760 | 194 | 134 | 170 |
| V 950 | 194 | 134 | 192 |
| V 955 | 194 | 134 | 192 |
| V 1200 | 194 | 134 | 202 |
| V 1320 | 223 | 155 | 195 |
| V 1520 | 223 | 155 | 215 |
| V 1525 | 223 | 155 | 215 |
| V 2100 | 235 | 155 | 215 |
| V 2160 | 276 | 196 | 236 |
| V 2875 | 284 | 196 | 266 |
| V 3300 | 284 | 196 | 266 |
| V 3840 | 276 | 196 | 266 |

Hub version 5

Flange-mounting



Firmly bolt the flange-mounting hub onto the customer's flanged shafts or other components. Using a torque spanner, tighten the flange mounting bolts to the customer-specified tightening torque.

Hub version 6

Standard hub with keyway and set screw



To achieve a low backlash, a firm shaft connection is required. To prevent axial compressive forces acting on the couple during its installation, provide an axial support for the coupling's components. Alternatively you can push the hubs onto the shafts separately before assembling the coupling. The bores are supplied in tolerance F7.

Maintenance

We recommend lubrication with Klüber Staburags NBU 12-300 KP grease. Normally the coupling elements are fitted with funnel type grease nipples. Observe the recommended lubrication intervals (see figure 3). The most critical parts of the coupling are the bearings in the coupling links and the drive pins in the coupling disks. To minimize downtimes in the event of these components malfunctioning, it is advisable to keep spare coupling links in stock. These are available as ready for use repair kits. Example: For the Standard series, you will need 2 sets = 6 coupling links of the appropriate size. When ordering, please give the coupling model with its part number.

Never replace bearings or links separately.

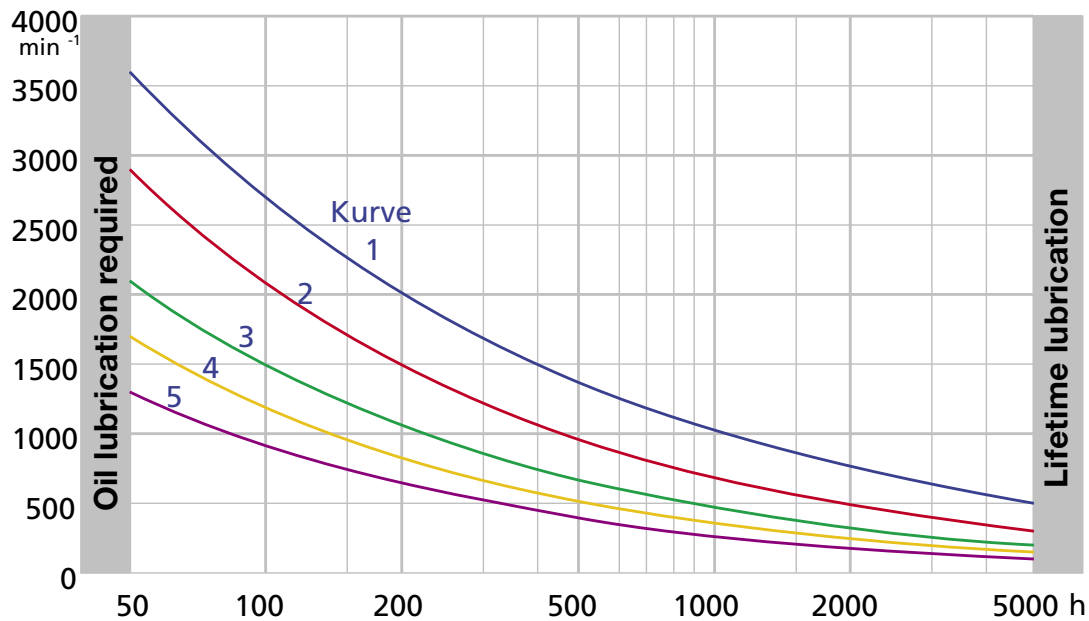
If drive pins are damaged, we recommend that you return the coupling for repairs. Maintenance work on Schmidt-Kupplung® couplings must be performed only by SCHMIDT-KUPPLUNG personnel. The original grease can be ordered in 400 g cartridges under article number 42186.

SCHMIDT-KUPPLUNG GmbH does not accept liability for damage or injury caused by customer-serviced or modified couplings and/or couplings fitted with parts other than those supplied by SCHMIDT-KUPPLUNG. Any warranty becomes void through any such modifications.

Figure 3:

For lubrication intervals for Schmidt-Kupplung, see next page.

Lubrication intervals



Curve 1 Curve 2 Curve 3 Curve 4 Curve 5

| Standard | | | | |
|----------|-------|-------|--------|--------|
| S 115 | S 285 | S 630 | S 1130 | S 2160 |
| S 150 | S 360 | S 635 | S 1135 | S 2165 |
| S 155 | S 365 | S 760 | S 1320 | S 2870 |
| S 210 | S 440 | S 765 | S 1325 | S 2875 |
| S 215 | S 445 | S 950 | S 1520 | |
| | | S 955 | S 1525 | |

Curve 1 Curve 2 Curve 3 Curve 4 Curve 5

| Offset Plus | | | | |
|-------------|-------|--------|--------|--------|
| V 210 | V 440 | V 760 | V 1320 | V 2160 |
| V 290 | V 680 | V 950 | V 1520 | V 2875 |
| | V 700 | V 955 | V 2100 | V 3300 |
| | | V 1200 | | V 3840 |

Curve 1 Curve 2 Curve 3 Curve 4 Curve 5

| Power Plus | | | | |
|------------|-------|--------|--|--------|
| P 200 | P 480 | P 1010 | | P 2880 |
| P 250 | P 590 | P 1015 | | P 3830 |
| P 280 | P 595 | P 1580 | | P 3835 |
| P 285 | P 700 | P 1585 | | P 4800 |
| P 350 | P 705 | | | P 4805 |
| P 355 | | | | P 6610 |
| | | | | P 6615 |

General notes

The failure, incorrect selection and incorrect use of these products can lead to a faulty operation or failure of associated plant sections. Conversely, the incorrect functioning of connected components can cause these products to fail.

Our website, the technical brochures and other publications provide information to help you select the best suited product for your application. The suitability of the selected products should always be verified by a technical expert. Make sure that you have analyzed all aspects of your application and verified the product information provided in these publications.

Because of the many possible applications for these products and the wide range of operating conditions, the user of the products is exclusively responsible for ensuring that the selected products are suitable for the intended application and fulfil all applicable safety requirements. Where necessary, tests should be performed to ensure correct product selection.

The provided specifications are subject to change at any time without prior notification.

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