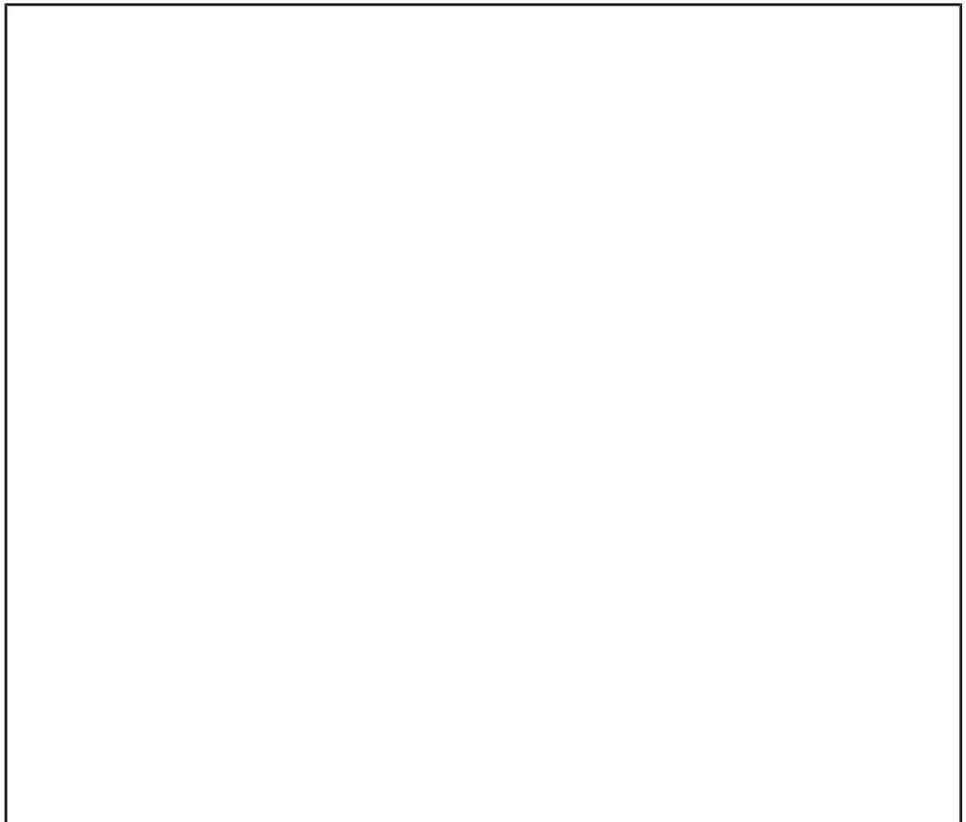


Oil Mist Lubrication

RPH
RPH-RO

Supplementary Operating Manual



Legal information/Copyright

Supplementary Operating Manual Oil Mist Lubrication

Original operating manual

All rights reserved. The contents provided herein must neither be distributed, copied, reproduced, edited or processed for any other purpose, nor otherwise transmitted, published or made available to a third party without the manufacturer's express written consent.

Subject to technical modification without prior notice.

Contents

1	Supplementary Operating Manual	4
1.1	General.....	4
1.2	Installing the oil mist lubrication system	4
1.3	Conversion	4
1.3.1	Conversion from oil mist lubrication to oil bath lubrication.....	4
1.3.2	Conversion from oil bath lubrication to oil mist lubrication.....	4
1.3.3	Conversion from oil bath lubrication to purge oil mist lubrication.....	5
1.3.4	Conversion from purge oil mist lubrication to oil bath lubrication.....	5
1.4	General assembly drawing.....	6

1 Supplementary Operating Manual

1.1 General

This supplementary operating manual accompanies the installation/operating manual. All information contained in the installation/operating manual must be observed.

Table 1: Relevant operating manuals

Type series	Reference number of the installation/operating manual
RPH	1316.8014
RPH-RO	1316.86

1.2 Installing the oil mist lubrication system

- ✓ Bearing covers 360.01/02 have been installed with labyrinth rings 423.01/02.
 1. Unscrew plugs 916.N3 and 916.N4 from the bearing bracket.
 2. Screw in pipe union NPT 1/4" for oil mist inlet 916.N3.
 3. Screw in pipe union NPT 1/2" for oil mist outlet 916.N4.
 4. Connect the pipework to the oil mist lubrication system.
 5. Apply oil mist quantities as stipulated by the manufacturers of the oil mist lubrication units used.

1.3 Conversion

1.3.1 Conversion from oil mist lubrication to oil bath lubrication

Installing the oil bath lubrication system

1. Unscrew grub screws 904.N1 and 916.N2 from the oil return bore.
2. Unscrew plugs 916.N1 and 916.N5, if fitted.
3. Screw in grub screw 904.43 (B02/B03: 3xM10x10; B05: 5xM10x10; B06: 6xM10x10; B07: 3xM10x10).
4. Unscrew and remove the oil mist connections (inlet and outlet).
5. Close bores 916.N3 and 916.N4 with plugs NPT 1/4" and NPT 1/2", respectively.
6. Fit bearing bracket 330 with vent plug 913.03, fitting 720, constant level oiler 638 and protective cage 69-10.

1.3.2 Conversion from oil bath lubrication to oil mist lubrication

Installing the oil mist lubrication system

- ✓ Bearing covers 360.01/02 have been installed with labyrinth rings 423.01/02.
 1. Unscrew plugs 916.N3 and 916.N4 from the bearing bracket.
 2. Screw in pipe union NPT 1/4" for oil mist inlet 916.N3.
 3. Screw in pipe union NPT 1/2" for oil mist outlet 916.N4.
 4. Connect the pipework to the oil mist lubrication system.
 5. Replace constant level oiler 638 by plug 916.N5 (A 1/4-18 NPT made of steel).
 6. Replace vent plug 913.03 by plug 916.N1 (A 1/2-18 NPT made of steel).

	CAUTION
	<p>Incorrect installation Damage to the bearings!</p> <ul style="list-style-type: none"> ▷ Seal and glue in the grub screws made of steel. ▷ The grub screws must not protrude. Screw them in until they no longer protrude from the surface.

7. Remove grub screw 904.43 from the oil return bores in the bearing bracket and replace by grub screw 904.N1 (to ISO 4029 - M10×25 made of steel).
8. Close the oil return bores under the pump-end bearing using plug 916.N2 (to DIN 4029).

Table 2: Plug 916.N2

Bearing bracket	Thread
B02S/L, B03	RP 1/4 A4
B05S/L, B06, B07	Rp 3/8 A4

9. Apply oil mist quantities as stipulated by the manufacturers of the oil mist lubrication units used.

1.3.3 Conversion from oil bath lubrication to purge oil mist lubrication

Installing the oil mist lubrication system

1. Unscrew plugs 916.N3 and 916.N4 from the bearing brackets.
2. Screw in pipe union NPT 1/4" for oil mist inlet.
3. Screw in pipe union NPT 1/2" for oil mist outlet.
4. Connect the pipework of the oil mist lubrication system.
5. Run suitable flexible tubing from the oil sump overflows at the constant level oilers into the oil return lines.

1.3.4 Conversion from purge oil mist lubrication to oil bath lubrication

Installing the oil bath lubrication system

1. Unscrew and remove the oil mist connections (inlet and outlet) from the bearing bracket.
2. Close bores 916.N3 with plugs NPT 1/4".
3. Replace plug 916.N1 by vent plug 913.03.
4. Remove the flexible tube at the oil sump overflow of the constant level oiler.
5. Fit constant level oiler 638 with protective cage 69-10.

1.4 General assembly drawing

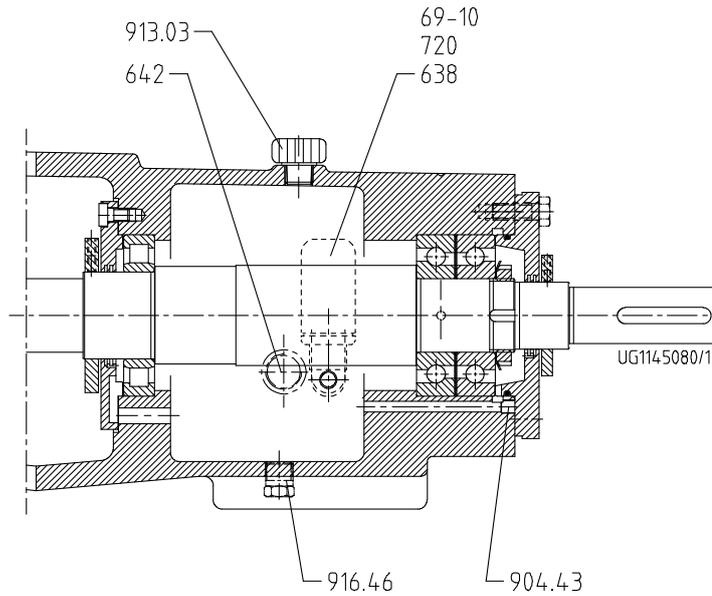


Fig. 1: Oil bath lubrication

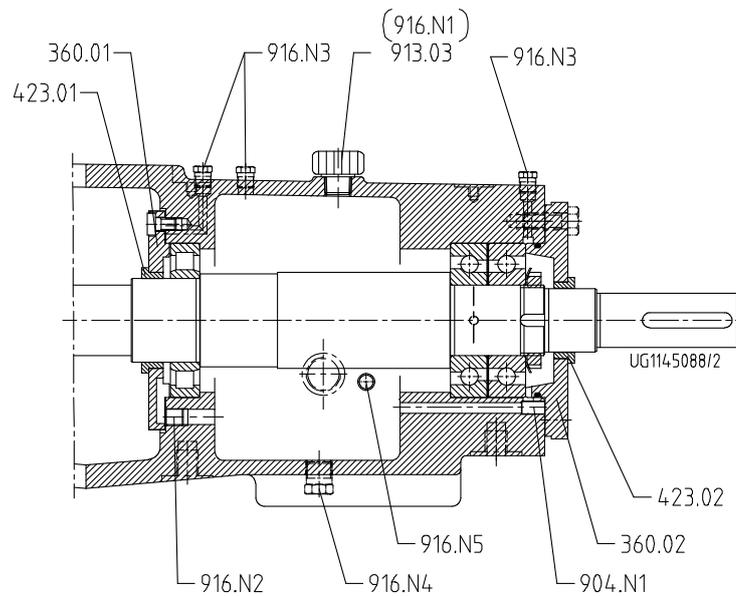


Fig. 2: Oil mist lubrication

Table 3: List of components

Part No.	Description
69-10	Protective cage
360.01/.02	Bearing cover
423.01/.02	Labyrinth ring
638	Constant level oiler
642	Oil level sight glass
720	Fitting
904.N1/.43	Grub screw
913.03	Vent plug
916.N1/.N2/.N3/.N4/.N5/.46	Plug

1316.814/06-EN



KSB SE & Co. KGaA

Johann-Klein-Straße 9 • 67227 Frankenthal (Germany)

Tel. +49 6233 86-0

www.ksb.com

1316.814/06-EN (01333276)