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SEW drives of the series

R.../ K37-K187/ F.../ K.9/ S.../ HS.../ W.../ HW.../ PS.F/ PS.C/ BS.F/ MGF

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Change information:

Chap. /page	Description (changes to the previous edition)	Modification no.
1.3/5	Lubricant change intervals extended, SEW GearOil Synth.	190797
2/8	SEW GearOil Poly 150 E1 approved for gear unit series R, F, K.7.	
2/7;4/12	SEW GearOil Base US1 series added.	
2/7;4/12	Shell Omala SG series replaces Shell Omala S2G series.	
2/8;4/13	SEW GearOil Poly 150-220-460 H1 E1 approved for gear unit series R, F, K.7 & S.	
4/13	SEW GearOil Poly 150-220-460 E1 approved for gear unit series S.	
4/13	Approval CLP PG 680 is revoked for gear unit series S.	
5/16	SEW GearOil Poly 150 E1 approved for gear unit series W / W.7.	
2/9; 4/14; 9/19	SEW GearOil Synth 150-220-460 approved for gear unit series R, F, K.7, MGF2-4.	
2/9; 4/14; 9/19	Castrol Optigear Synthetic PD 150-220-460 revoked for gear unit series R, F, K.7, S, MGF2-4.	

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Abbreviations:

 Synthetic lubricant

 Mineral lubricant

CLP Mineral oil

CLP PG Polyglycol (PG)

CLP HC Synthetic hydrocarbons – polyalphaolefins (PAO)

E Oil based on esters

 Lubricant suitable for ATEX environment

 Lubricant for the food processing industry and feed industry. Oils are NSF-H1 registered and compliant according to FDA 21 CFR § 178.3570.

 Easily biodegradable oil for environmentally sensitive areas

1) Helical-worm gear units with CLP-PG: contact SEW-EURODRIVE

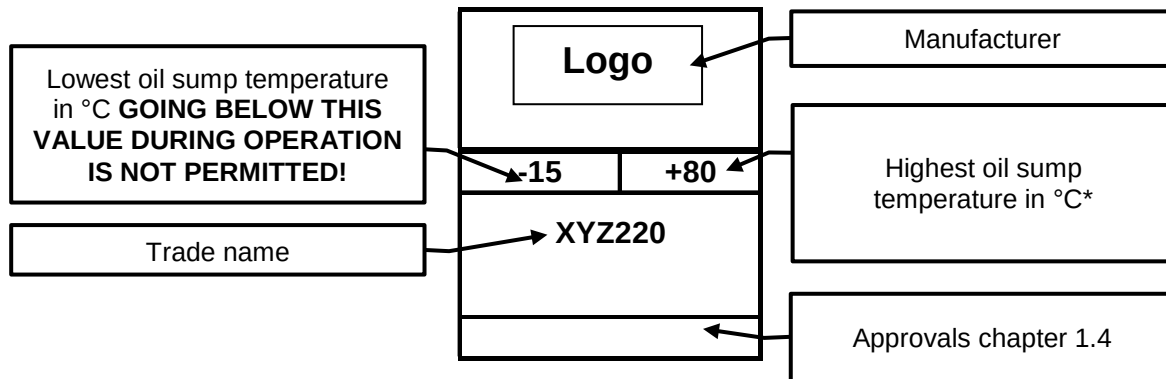
2) Low-viscosity grease

3) Ambient temperatures up to -40 °C can be implemented with appropriate measures. Please contact SEW-EURODRIVE.

RWDR Radial oil seal

PSS Radial oil seal type PSS (Premium Sine Seal).
The addendum "PSS" at the lubricant type signals compatibility with the sealing system.

1.2. Explanations on the individual lubricants

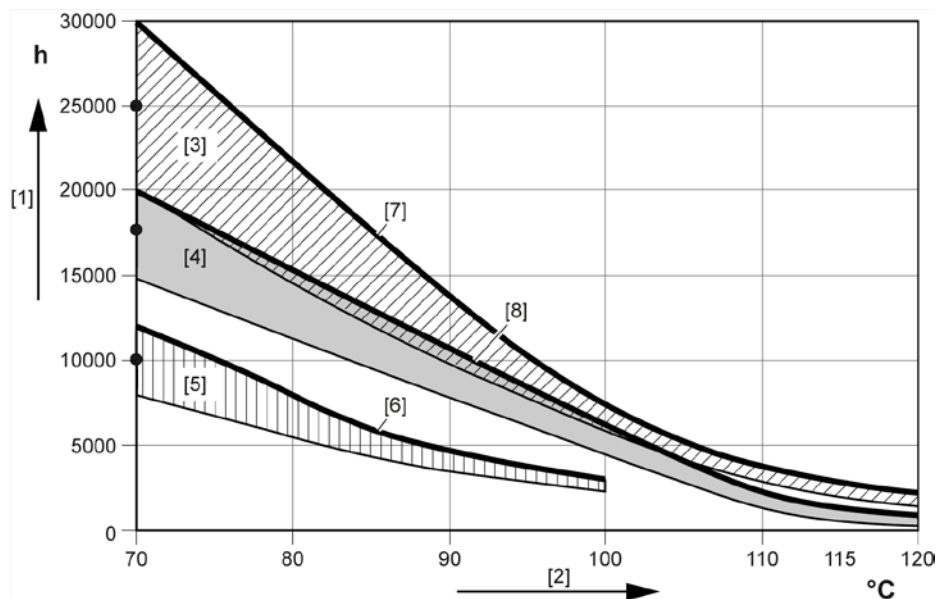


* The service life will be considerably reduced when exceeded. Observe the lubricant change intervals according to chapter 1.3.

1.3. Lubricant change intervals

The following image depicts the change intervals for standard gear units under normal ambient conditions. In case of special designs under severe/aggressive ambient conditions, change the lubricant more frequently.

Notice: Filling of wrong lubricant may lead to a loss of the lubricant properties and thus damage the gear unit. Do not mix synthetic lubricants and mineral lubricants. In general, the guideline FVA 606 must be adhered to.



- [1] Operating hours
- [2] Sustained oil bath temperature
Average value per oil type at 70 °C
- [3] CLP PG/CPL PG NSF H1
- [4] CLP HC/CLP HC NSF H1

- [5] CLP (CC)/E
- [6] SEW GearOil Base
- [7] SEW GearOil Poly
- [8] SEW GearOil Synth

1.4. Compatibility of lubricants with radial oil seals

SEW07004__13: A lubricant especially recommended by SEW-EURODRIVE, also in regard of compatibility with the approved oil seals. The lubricant exceeds the state-of-the-art requirements.

Approved application temperature range of the oil seals

Oil seal material class	Approved oil sump temperature
NBR	-40 °C ... +80 °C
FKM	-25 °C ... +115 °C
FKM-PSS	-25 °C ... +115 °C

In the low temperature range, oil seals can withstand shaft deflections (e. g. through overhung load) only to a limited extent. Especially avoid or limit pulsating or changing radial displacements of the shaft. Please contact SEW-EURODRIVE if required.

Limitations of use of radial oil seals with the specific lubricant are indicated in the following table:

Material class		Manufacturer		Material		
S	1	NBR	1	Freudenberg	72 NBR 902	
			2	Trelleborg	4NV11	
	2	FKM	1	Freudenberg	1	75 FKM 585
			2		2	75 FKM 170055
			2	Trelleborg	1	VCBVR

Example 1:

S11 - Only the elastomer Freudenberg 72 NBR 902 meets the requirements of the SEW-EURODRIVE approval in regard of the specific lubricant.

Example 2:

S2 - Only the elastomer FKM meets the requirements of the SEW-EURODRIVE approval in regard of the specific lubricant.

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2. Helical gear units (R..), helical-bevel gear units (K.7), parallel-shaft helical gear units (F..)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 R.. RES K..7 KES HK.. F..	Standard -15 40	CLP	VG 220	-15 +80 SEW GearOil Base 220 E1 / US1 SEW 070040313		-15 +80 Optigear BM 220	-15 +80 Renolin CLP 220 Plus	-15 +80 Mobilgear 600 XP 220	-15 +80 Klüberoil GEM 1-220 N	-15 +80 Shell Omala SG 220	-15 +80 Carter EP 220
	-20 30			-20 +80 SEW GearOil Base 150 E1 / US1 SEW 070040313		-20 +80 Optigear BM 150	-20 +80 Renolin CLP 150 Plus	-20 +80 Mobilgear 600 XP 150	-20 +80 Klüberoil GEM 1-150 N	-20 +80 Shell Omala SG 150	-20 +80 Carter EP 150
	Standard -15 40			-15 +80 SEW GearOil Base 220 E1 / US1 SEW 070040313							
	-20 30			-20 +80 SEW GearOil Base 150 E1 / US1 SEW 070040313							

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremser & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 R.. RES K..7 KES HK.. F..  	Standard -25 80	Ex	CLP PG	VG 220	-25 +115 SEW GearOil Poly 220 E1 SEW 070040313	-25 +115 Optigear Synthetic 800/220	-25 +115 Renolin PG 220	-25 +115 Mobil Glygoyle 220	-25 +115 Klübersynth GH 6-220	-25 +115 Shell Omala S4 WE 220	-25 +115 Carter SY 220
	-30 70			VG150	-30 +115 SEW GearOil Poly 150 E1 SEW 070040313				-30 +115 Klübersynth GH 6-150		
	Standard -25 80			VG 220	-25 +115 SEW GearOil Poly 220 E1 SEW 070040313				-25 +115 Klübersynth GH 6-220		
	-30 70	Ex	CLP PG - PSS	VG150	-30 +115 SEW GearOil Poly 150 E1 SEW 070040313				-30 +115 Klübersynth GH 6-150		
	Standard -25 40			VG 220	-25 +95 SEW GearOil Poly 220 H1 E1 SEW 070040313				-25 +95 Klübersynth UH1 6-220		
	-20 80			VG 460	-20 +115 SEW GearOil Poly 460 H1 E1 SEW 070040313				-20 +115 Klübersynth UH1 6-460		
	-30 30	Ex	CLP PG-NSF H1 (-PSS)	VG 150	-30 +80 SEW GearOil Poly 150 H1 E1 SEW 070040313				-30 +80 Klübersynth UH1 6-150		

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremser & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 R.. RES K..7 KES HK.. F..  	Standard -25 60	CLP HC	VG 220 ³⁾	-25 +110 SEW GearOil Synth 220 E1 SEW 070040313			-25 +110 Renolin Unisyn CLP 220	-25 +110 Mobil SHC 630	-25 +110 Klübersynth GEM 4-220 N	-25 +110 Shell Omala S4 GX 220	-25 +110 Carter SH 220
	-30 50			-30 +100 SEW GearOil Synth 150 E1 SEW 070040313			-30 +95 Renolin Unisyn CLP 150	-30 +100 Mobil SHC 629	-30 +100 Klübersynth GEM 4-150 N	-30 +100 Shell Omala S4 GX 150	-30 +95 Carter SH 150
	-35 20			VG 68			-35 +75 Renolin Unisyn CLP 68	-40 +75 Mobil SHC 626		-40 +75 Shell Omala S4 GX 68	
	-40 0			VG 32			-40 +50 Renolin Unisyn OL32	-40 +50 Mobil SHC 624			-40 +50 Dacnis SH 32
	Standard -25 60	CLP HC - PSS	VG 220 ³⁾	-25 +110 SEW GearOil Synth 220 E1 SEW 070040313				-25 +110 Mobil SHC 630			
	-30 50			-30 +100 SEW GearOil Synth 150 E1 SEW 070040313				-30 +100 Mobil SHC 629			

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremner & leguill	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 R.. RES K...7 KES HK.. F..	Standard -15 40	  CLP HC - NSF H1	VG 460		-15 +100 Cassida Fluid GL 460 SEW 070040313	-15 +100 Optileb GT 460 SEW 070040313	-15 +100 Cassida Fluid GL 460 SEW 070040313		-15 +105 Klüberoil 4UH1-460 N SEW 070040313		
	-25 30		VG 220		-25 +80 Cassida Fluid GL 220 SEW 070040313	-25 +80 Optileb GT 220 SEW 070040313	-25 +80 Cassida Fluid GL 220 SEW 070040313		-25 +80 Klüberoil 4UH1-220 N SEW 070040313		
	-35 0		VG 68		-40 +50 Cassida Fluid HF 68 SEW 070040313	-35 +50 Optileb HY 68 SEW 070040313	-40 +50 Cassida Fluid HF 68 SEW 070040313		-35 +50 Klüberoil 4UH1-68 N SEW 070040313		
	-40 -10		VG 32		-40 +30 Cassida Fluid HF 32 SEW 070040313	-40 +30 Optileb HY 32 SEW 070040313	-40 +30 Cassida Fluid HF 32 SEW 070040313		-40 +30 KlüberSummit HySyn FG 32 SEW 070040313		
	Standard -15 40	  CLP HC - NSF H1 - PSS	VG 460			-15 +100 Optileb GT 460 SEW 070040313					
	-25 30		VG 220			-25 +80 Optileb GT 220 SEW 070040313					
	-20 40	  E	VG 460				-20 +80 Plantogear 460 S S2		-20 +80 Klüberbio CA2-460 S2		

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

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3. Helical-bevel gear units (K.9)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE				Mobil			
	Standard -20 60		CLP PG (- PSS)	VG 460	-20 +95 SEW GearOil Poly 460 E1 SEW 070040313				-20 +95 Klübersynth GH 6-460		
	-15 80			VG 680					-15 +115 Klübersynth GH 6-680		
	-25 40			VG 220	-25 +70 SEW GearOil Poly 220 E1 SEW 070040313				-25 +70 Klübersynth GH 6-220		
	-30 30			VG150	-30 +60 SEW GearOil Poly 150 E1 SEW 070040313				-30 +60 Klübersynth GH 6-150		
	Standard -20 60		CLP PG - NSF H1 (- PSS)	VG 460	-20 +95 SEW GearOil Poly 460 H1 E1 SEW 070040313				-20 +95 Klübersynth UH1 6-460		
	-15 80			VG 680					-15 +115 Klübersynth UH1 6-680		
	-25 40			VG 220	-25 +70 SEW GearOil Poly 220 H1 E1 SEW 070040313				-25 +70 Klübersynth UH1 6-220		
	-30 30			VG 150	-30 +60 SEW GearOil Poly 150 H1 E1 SEW 070040313				-30 +60 Klübersynth UH1 6-150		

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

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4. Helical-worm gear units (S., HS..)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 S.. HS..	Standard 0 40	CLP	VG 680	0 +80 SEW GearOil Base 680 S E1 SEW 070040313		0 +80 Optigear BM 680	0 +80 Renolin CLP 680 Plus	0 +80 Mobilgear 600 XP 680	0 +80 Klüberoil GEM 1-680 N	0 +80 Shell Omala SG 680	0 +80 Carter EP 680
	-20 25			-20 +65 SEW GearOil Base 150 E1 / US1 SEW 070040313		-20 +65 Optigear BM 150	-20 +65 Renolin CLP 150 Plus	-20 +65 Mobilgear 600 XP 150	-20 +65 Klüberoil GEM 1-150 N	-20 +65 Shell Omala SG 150	-20 +65 Carter EP 150
	Standard 0 40			0 +80 SEW GearOil Base 680 S E1 SEW 070040313							
	-20 25			-20 +65 SEW GearOil Base 150 E1 / US1 SEW 070040313							
	Standard 0 40	CLP - PSS	VG 680	0 +80 SEW GearOil Base 680 S E1 SEW 070040313							
	-20 25			-20 +65 SEW GearOil Base 150 E1 / US1 SEW 070040313							
	Standard 0 40			0 +80 SEW GearOil Base 680 S E1 SEW 070040313							
	-20 25			-20 +65 SEW GearOil Base 150 E1 / US1 SEW 070040313							

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
	Standard -20 80	CLP PG	VG 460 ¹⁾	-20 +115 SEW GearOil Poly 460 E1 SEW 070040313					-20 +115 Klübersynth GH 6-460		
	-25 60			-25 +100 SEW GearOil Poly 220 E1 SEW 070040313		-25 +90 Optigear Synthetic 800/220	-25 +95 Renolin PG 220	-25 +100 Mobil Glygoyle 220	-25 +100 Klübersynth GH 6-220	-25 +90 Shell Omala S4 WE 220	-25 +90 Carter SY 220
	-30 40			-30 +85 SEW GearOil Poly 150 E1 SEW 070040313					-30 +85 Klübersynth GH 6-150		
	Standard -20 80	CLP PG - PSS	VG 460 ¹⁾	-20 +115 SEW GearOil Poly 460 E1 SEW 070040313					-20 +115 Klübersynth GH 6-460		
	-25 60			-25 +100 SEW GearOil Poly 220 E1 SEW 070040313					-25 +100 Klübersynth GH 6-220		
	-30 40			-30 +85 SEW GearOil Poly 150 E1 SEW 070040313					-30 +85 Klübersynth GH 6-150		
	Standard -20 70	CLP PG - NSF H1 (- PSS)	VG 460 ¹⁾	-20 +110 SEW GearOil Poly 460 H1 E1 SEW 070040313					-20 +110 Klübersynth UH1 6-460		
	-25 40			-25 +80 SEW GearOil Poly 220 H1 E1 SEW 070040313					-25 +80 Klübersynth UH1 6-220		
	-30 20			-30 +65 SEW GearOil Poly 150 H1 E1 SEW 070040313					-30 +65 Klübersynth UH1 6-150		

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
S.. HS.. 	Standard -15 60	CLP HC	VG 460				-15 +100 Renolin Unisyn CLP 460	-20 +105 Mobil SHC 634	-15 +105 Klübersynth GEM 4-460 N	-15 +105 Shell Omala S4 GX 460	-15 +105 Carter SH 460
	-30 30		VG 150 ³⁾				-30 +70 Renolin Unisyn CLP 150	-30 +75 Mobil SHC 629	-30 +70 Klübersynth GEM 4-150 N	-30 +75 Shell Omala S4 GX 150	-30 +70 Carter SH 150
	-35 20		VG 68				-35 +50 Renolin Unisyn CLP 68	-40 +55 Mobil SHC 626		-40 +50 Shell Omala S4 GX 68	
	-40 0		VG 32				-40 +30 Renolin Unisyn OL32	-40 +30 Mobil SHC 624			-40 +30 Dacnis SH 32
	Standard -15 60	CLP HC - PSS	VG 460					-20 +105 Mobil SHC 634			
	-30 30		VG 150 ³⁾					-30 +75 Mobil SHC 629			

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

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	Standard -15 40	 CLP HC - NSF H1 	VG 460		-15 +85 Cassida Fluid GL 460	-15 +90 Optileb GT 460	-15 +85 Cassida Fluid GL 460		-15 +90 Klüberoil 4UH1-460 N		
					SEW 070040313						
	-25 30		VG 220		-25 +75 Cassida Fluid GL 220	-25 +70 Optileb GT 220	-25 +75 Cassida Fluid GL 220		-25 +70 Klüberoil 4UH1-220 N		
					SEW 070040313						
	-35 0	 CLP HC - NSF H1 - PSS 	VG 68		-35 +40 Cassida Fluid HF 68	-35 +40 Optileb HY 68	-35 +40 Cassida Fluid HF 68		-35 +40 Klüberoil 4UH1-68 N		
	-40 -10		VG 32		-40 +25 Cassida Fluid HF 32	-40 +20 Optileb HY 32	-40 +25 Cassida Fluid HF 32		-40 +25 KlüberSummit HySyn FG 32		
	Standard -15 40	 CLP HC - NSF H1 - PSS 	VG 460			-15 +90 Optileb GT 460					
					SEW 070040313						
	-25 30		VG 220			-25 +70 Optileb GT 220					
					SEW 070040313						
	-20 40	 E 	VG 460				-20 +80 Plantogear 460 S		-20 +80 Klüberbio CA2-460		
							S2		S2		

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

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5. Spiroplan gear units (W.., HW..)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremner & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
W.. HW.. 	Standard -20 60	 CLP PG (-PSS)	VG 460	-20 +115 SEW GearOil Poly 460 W E1 SEW 070040313							
	-20 60	 CLP PG NSF H1 (-PSS)	VG 460	-20 +115 SEW GearOil Poly 460 H1 E1 SEW 070040313					-20 +115 Klübersynth UH1 6-460		
	-30 20	 CLP PG NSF H1 (-PSS)	VG150 ¹⁾	-30 65 SEW GearOil Poly 150 H1 E1 SEW 070040313					-30 +65 Klübersynth UH1 6-150		
	-40 10	 API GL5	SAE 75W90 (~VG 100)					-40 +65 Mobil Synth Gear Oil 75 W90			

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

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6. PS.F gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguill	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
PS.F 	Standard			-25 +100					-25 +100		
	-25 80	CLP PG (- PSS)	VG 220	SEW GearOil Poly 220 E1					Klübersynth GH 6-220		
				SEW 070040313							
	-20 80	CLP PG NSF H1 (- PSS)	VG 460	-20 +100 SEW GearOil Poly 460 H1 E1					-20 +100 Klübersynth UH1 6-460		
				SEW 070040313							
	-40 0	CLP HC	VG 32					-40 +50 Mobil SHC 624			

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

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SEW drives of the series

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7. PS.C gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 PS.C	Standard -15 40	CLP	VG 220	-15 +80 SEW GearOil Base 220 E1 / US1 SEW 070040313				-15 +80 Mobilgear 600 XP 220 SEW 070040013			
	-40 0	CLP HC	VG 32					-40 +50 Mobil SHC 624			
	-20 40	Fett / Grease 	NLGI 00 ²⁾					-20 +80 Mobilux EP 004			
	-20 40		NLGI 1					-20 +80 Klübersynth UH1 14-151			

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

8. BS.F gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 BS.F	Standard -25 60	 CLP PG (- PSS)	VG 220	-25 +100 SEW GearOil Poly 220 E1 SEW 070040313					-25 +100 Klübersynth GH 6-220		
	-20 60	 CLP PG NSF H1 (- PSS)	VG 460	-20 +100 SEW GearOil Poly 460 H1 E1 SEW 070040313					-20 +100 Klübersynth UH1 6-460		

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

Supplier Approval

SEW drives of the series

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9. MGF gear units

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
MGF...2 MGF...4 	Standard -25 60	CLP HC	VG 220	-25 +110 SEW GearOil Synth 220 E1 SEW 070040313			-25 +110 Renolin Unisyn CLP 220	-25 +110 Mobil SHC 630	-25 +110 Klübersynth GEM 4-220 N	-25 +110 Shell Omala S4 GX 220	-25 +110 Carter SH 220
	-30 50			-30 +100 SEW GearOil Synth 150 E1 SEW 070040313			-30 +95 Renolin Unisyn CLP 150	-30 +100 Mobil SHC 629	-30 +100 Klübersynth GEM 4-150 N	-30 +100 Shell Omala S4 GX 150	-30 +95 Carter SH 150
	Standard -25 60			-25 +110 SEW GearOil Synth 220 E1 SEW 070040313				-25 +110 Mobil SHC 630			
	-30 50			-30 +100 SEW GearOil Synth 150 E1 SEW 070040313				-30 +100 Mobil SHC 629			
		CLP HC - PSS	VG 220	-25 +110 SEW GearOil Synth 220 E1 SEW 070040313							
				-30 +100 SEW GearOil Synth 150 E1 SEW 070040313							
				-25 +110 SEW GearOil Synth 220 E1 SEW 070040313							
				-30 +100 SEW GearOil Synth 150 E1 SEW 070040313							

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

Supplier Approval

SEW drives of the series

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremner & leguill	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
MGF..2 MGF..4 	Standard -15 40	 CLP HC - NSF H1	VG 460		-15 +100 Cassida Fluid GL 460	-15 +100 Optileb GT 460	-15 +100 Cassida Fluid GL 460		-15 +105 Klüberoil 4UH1-460 N		
					SEW 070040313						
	-25 30		VG 220		-25 +80 Cassida Fluid GL 220	-25 +80 Optileb GT 220	-25 +80 Cassida Fluid GL 220		-25 +80 Klüberoil 4UH1-220 N		
					SEW 070040313						
	Standard -15 40	 CLP HC - NSF H1 - PSS	VG 460		-15 +100 Optileb GT 460						
					SEW 070040313						
	-25 30		VG 220		-25 +80 Optileb GT 220						
					SEW 070040313						

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.

Supplier Approval

SEW drives of the series

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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE				Mobil			
 MGF..1- DSM-C MGF..2 /PG MGF..4 /PG	Standard -25 60	CLP HC (- PSS)	VG 220					-25 +110 Mobil SHC 630			
	-30 50		VG 150					-30 +100 Mobil SHC 629			
	Standard -15 40	CLP HC - NSF H1 (-PSS)	VG 460			-15 +100 Optileb GT 460 SEW 070040313					
	-25 30		VG 220			-25 +80 Optileb GT 220 SEW 070040313					

NOTICE: The thermal application limits of radial oil seal materials (chapter 1.4) have to be considered as well.