

Supplier Approval

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SEW drives of the series

R../K.7/ 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.
1.1 /4	Explanation of PSS extended	200223
2 /7	SEW GearOil Base US1 version available for VG 220. Other Us1 viscosities on request.	
2 /7 4 /12	CLP-PSS extended with Mobilgear 600 XP and Fuchs Renolin CLP Plus.	
2 /9	SEW GearOil Synth E1 temperature limits extended.	
2 /10 9 /19-20	SEW GearOil Synth H1 E1 series added.	
9 /19	MGF..-C and MGF1 merged.	
9 /20-21	Nomenclature MGF.. Generation B standardized	

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1. Introduction/area of application

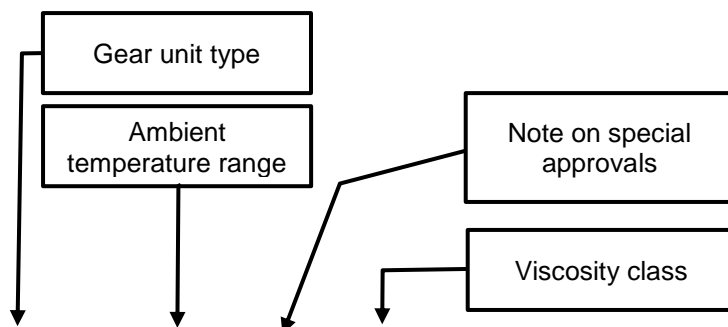
This document describes the approved/recommended lubricants for SEW gear unit series. The approvals/recommendations are worldwide valid.

If other lubricants are used in the gear units and/or lubricants are used with other temperature ranges than the ones recommended, the right to claim under warranty will become invalid.

Lubricants for standard gear units are subject to approval, the approval will be made according to the document 07004__13 "Supplier approval for qualification and approval of lubricants – gear unit oils" in its current version.

NOTE: Printed documents may not include the latest changes. For the latest version of this document, refer to <https://www.sew-eurodrive.de/lubricants>.

1.1. Explanations of the structure of the tables



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 -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			CLP - PSS	VG 220	-15 +80 SEW GearOil Base 220 E1 / US1 SEW 070040313							
	-20 30					-20 +80 SEW GearOil Base 150 E1 / US1 SEW 070040313							

The specified **ambient (environment) temperatures** are **rough guide values for a preselection** of a suitable lubricant. The exact upper and lower temperature limit for the project planning must be taken from the table with the corresponding trade name! Please note during project planning that the starting behavior may change with low temperatures due to the increasing viscosity.

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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. Lubricants with the addendum PSS in brackets are compatible both with conventional oil seals and PSS.

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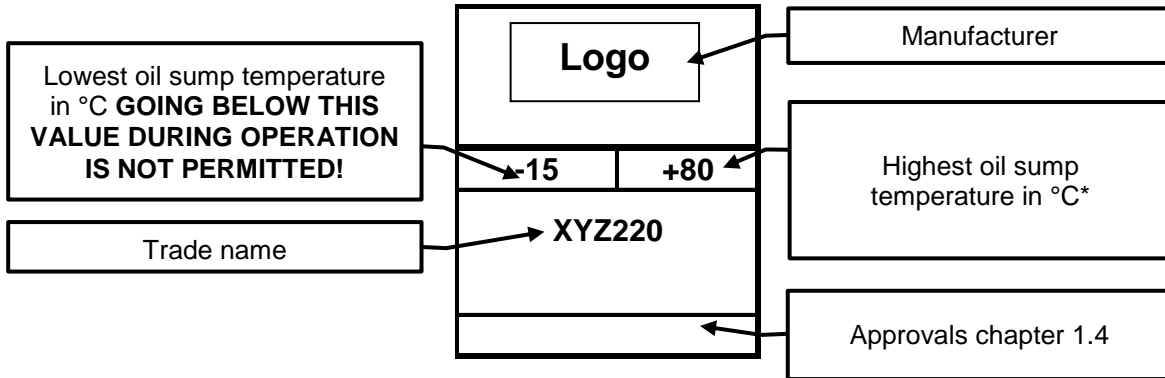
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1.2. Explanations on the individual lubricants

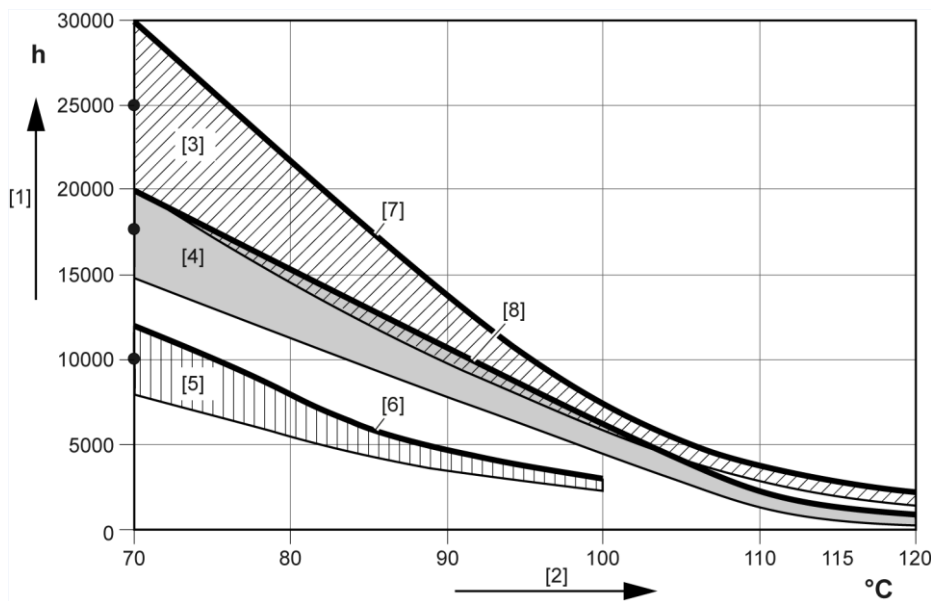


* The service life will be considerably reduced when exceeded. Observe the lubricant change intervals according to chapter 1.3.

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 | [5] CLP (CC)/E |
| [2] Sustained oil bath temperature
Average value per oil type at 70 °C | [6] SEW GearOil Base |
| [3] CLP PG/CPL PG NSF H1 | [7] SEW GearOil Poly |
| [4] CLP HC/CLP HC NSF H1 | [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	75 FKM 585
			2	Trelleborg	75 FKM 170055
			1	Trelleborg	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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
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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		
												-15	+80
 R.. RES K..7 KES HK.. F..	Standard -15 40	CLP	VG 220	-15	+80	SEW GearOil Base 220 E1 / US1	Optigear BM 220	Renolin CLP 220 Plus	Mobilgear 600 XP 220	Klüberoil GEM 1-220 N	Shell Omala SG 220	Carter EP 220	
				VG 150	-20	+80	SEW GearOil Base 150 E1 / US1*	Optigear BM 150	Renolin CLP 150 Plus	Mobilgear 600 XP 150	Klüberoil GEM 1-150 N	Shell Omala SG 150	Carter EP 150
		CLP - PSS	VG 220	-15	+80	SEW GearOil Base 220 E1 / US1		Renolin CLP 220 Plus	Mobilgear 600 XP 220				
			VG 150	-20	+80	SEW GearOil Base 150 E1 / US1*		Renolin CLP 150 Plus	Mobilgear 600 XP 150				

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

* Viscosity as US version available on request.

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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																			
					-25	+115	-25	+115	-25	+115	-25	+115	-25	+115	-25	+115	-25	+115	-25	+115																		
	Standard		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												
	-25	80																																				
	-30	70																																				
					VG 150	-30			+115	SEW GearOil Poly 150 E1		SEW 070040313																	-30	+115	Klübersynth GH 6-150							
R.. RES K..7 KES HK.. F..	Standard		CLP PG - PSS	VG 220	-25	+115	SEW GearOil Poly 220 E1	SEW 070040313													-25	+115	Klübersynth GH 6-220															
	-25	80																																				
	-30	70																																				
					VG 150	-30			+115	SEW GearOil Poly 150 E1	SEW 070040313															-30	+115	Klübersynth GH 6-150										
	Standard		CLP PG-NSF H1 (-PSS)	VG 220	-25	+95	SEW GearOil Poly 220 H1 E1	SEW 070040313														-25	+95	Klübersynth UH1 6-220														
	-25	40																																				
	-20	80																																				
					VG 460	-20			+115	SEW GearOil Poly 460 H1 E1	SEW 070040313																-20	+115	Klübersynth UH1 6-460									
	Standard		CLP PG-NSF H1 (-PSS)	VG 150	-30	+80	SEW GearOil Poly 150 H1 E1	SEW 070040313														-30	+80	Klübersynth UH1 6-150														
	-30	30																																				

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

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


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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									
									-25	+110	-25	+110	-25	+110	-25	+110	-25	+110						
 R.. RES K.7 KES HK.. F..	Standard		CLP HC	VG 220 ³⁾	SEW GearOil Synth 220 E1 SEW 070040313			-25	+110	Renolin Unisyn CLP 220	Mobil SHC 630	Klübersynth GEM 4-220 N	Shell Omala S4 GX 220	Carter SH 220										
	-25 60																							
	-30 50																							
	-35 20																							
 	Standard		CLP HC - PSS	VG 220 ³⁾	SEW GearOil Synth 220 E1 SEW 070040313			-40	+50	Renolin Unisyn OL32	Mobil SHC 624													
	-30 +110																							
	-25 60																							
	-30 50																							

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
 R.. RES K.7 KES HK.. F..	Standard -15 40	 CLP HC - NSF H1	VG 460	-20 +110 SEW GearOil Synth 460 H1 E1	-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	SEW 070040313						
	-25 30			-30 +90 SEW GearOil Synth 220 H1 E1	-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	SEW 070040313						
	-35 0		VG 68		-35 +50 Cassida Fluid HF 68	-40 +50 Optileb HY 68	-35 +50 Cassida Fluid HF 68		-35 +50 Klüberoil 4UH1-68 N		
	-40 -10		VG 32		-40 +30 Cassida Fluid HF 32	-40 +30 Optileb HY 32	-40 +30 Cassida Fluid HF 32		-40 +30 KlüberSummit HySyn FG 32		
 	Standard -15 40	 CLP HC - NSF H1 - PSS	VG 460	-20 +110 SEW GearOil Synth 460 H1 E1		-15 +100 Optileb GT 460					
				SEW 070040313	SEW 070040313						
	-25 30			-30 +90 SEW GearOil Synth 220 H1 E1		-25 +80 Optileb GT 220					
			VG 220	SEW 070040313		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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
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3. Helical-bevel gear units (K.9)

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	b bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL	
K.9 	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			VG 150	-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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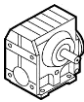
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4. Helical-worm gear units (S., HS..)

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

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

* Viscosity as US version available on request.

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
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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 -20 80	CLP PG	VG 460 ¹⁾	-20 +115 SEW GearOil Poly 460 E1 SEW 070040313					-20 +115 Klübersynth GH 6-460		
	-25 60			Ex	-25 +100 SEW GearOil Poly 220 E1 SEW 070040313	Optigear Synthetic 800/220	Renolin PG 220	Mobil Glygoyle 220	-25 +100 Klübersynth GH 6-220	Shell Omala S4 WE 220	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			Ex	-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			Ex	-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	
							-15	+100	-20	+105	-15	+105	-15	+105	-15	+105
S.. HS.. 	Standard -15 60	CLP HC	VG 460				Renolin Unisyn CLP 460	Mobil SHC 634	Klübersynth GEM 4-460 N	Shell Omala S4 GX 460	Carter SH 460					
	-30 30		VG 150 ³⁾				Renolin Unisyn CLP 150	Mobil SHC 629	Klübersynth GEM 4-150 N	Shell Omala S4 GX 150	Carter SH 150					
	-35 20		VG 68				Renolin Unisyn CLP 68	Mobil SHC 626		Shell Omala S4 GX 68						
	-40 0		VG 32				Renolin Unisyn OL32	Mobil SHC 624			Dacnis SH 32					
	Standard -15 60	CLP HC - PSS	VG 460					Mobil SHC 634								
	-30 30		VG 150 ³⁾					Mobil SHC 629								

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	bremer & leguit	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL	
S.. HS.. 	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	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	 CLP HC - NSF H1 - PSS	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.

Supplier Approval

SEW drives of the series

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

Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & 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.

Supplier Approval

SEW drives of the series

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



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6. PS.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
PS.F 	Standard -25 80	 CLP PG (- PSS)	VG 220	-25 +100 SEW GearOil Poly 220 E1 SEW 070040313					-25 +100 Klübersynth GH 6-220		
	-20 80	  CLP PG NSF H1 (- PSS)	VG 460	-20 +100 SEW GearOil Poly 460 H1 E1 SEW 070040313					-20 +100 Klübersynth UH1 6-460		
	-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.

Supplier Approval

SEW drives of the series

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

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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.

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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..C	Standard -25 60	CLP HC (- PSS)	VG 220	-30 +110 SEW GearOil Synth 220 E1				-25 +110 Mobil SHC 630				
				SEW 070040313								
	-30 50			-35 +105 SEW GearOil Synth 150 E1					-30 +100 Mobil SHC 629			
				SEW 070040313								
 MGF..C	Standard -15 40	CLP HC - NSF H1 (-PSS)	VG 460	-20 +110 SEW GearOil Synth 460 H1 E1			-15 +100 Optileb GT 460					
				SEW 070040313								
	-25 30			-30 +85 SEW GearOil Synth 220 H1 E1					-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.

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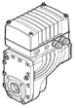
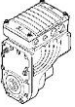
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Produkt / Product	Umgebungstemperatur / Environment Temperature	Öltyp / Oil Type	ISO, SAE NLGI	SEW EURODRIVE	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL	
MGF...-B MGF...- DSM  	Standard -25 60	CLP HC	VG 220	-30 +110 SEW GearOil 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			VG 150	-35 +105 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				CLP HC - PSS	VG 220	-30 +110 SEW GearOil Synth 220 E1 SEW 070040313			-25 +110 Mobil SHC 630		
	-30 50		VG 150				-35 +105 SEW GearOil Synth 150 E1 SEW 070040313			-30 +100 Mobil SHC 629		
	Standard -15 40			CLP HC - NSF H1			VG 460	-20 +110 SEW GearOil Synth 460 H1 E1 SEW 070040313	-15 +100 Cassida Fluid GL 460	-15 +100 Optileb GT 460	-15 +100 Cassida Fluid GL 460	
	-25 30				VG 220	-30 +90 SEW GearOil Synth 220 H1 E1 SEW 070040313		-25 +80 Cassida Fluid GL 220	-25 +80 Optileb GT 220	-25 +80 Cassida Fluid GL 220		-25 +80 Klüberoil 4UH1-220 N
	Standard -15 40	CLP HC - NSF H1 - PSS	VG 460			-20 +110 SEW GearOil Synth 460 H1 E1 SEW 070040313			-15 +100 Optileb GT 460			
	-25 30					VG 220	-30 +90 SEW GearOil Synth 220 H1 E1 SEW 070040313		-25 +80 Optileb GT 220			

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	bremer & leguil	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	TOTAL
 MGF..-B / PG MGF..- DSM / 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				
	-25 30		VG 220				SEW 070040313 -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.