RDE 90245/2026-03-27
Replaces: 2026-01-12

rexroth
A Bosch Company

# Bosch Rexroth Fluid Rating List

## für Rexroth-Hydraulikkomponenten (Pumpen und Motoren)*

## *for Rexroth hydraulic components (pumps and motors)**

**Exception Hägglunds products, see 15414*

Die unten genannten Hydraulikflüssigkeiten sind von der Bosch Rexroth AG positiv bewertet. Sie erfüllen die Bedingungen nach RD 90235 für eine Listung in der Bosch Rexroth Fluid Rating List 90245.

*Hydraulic fluids mentioned below have been rated favourably by Bosch Rexroth AG. The requirements for listing according to RE 90235 on the Bosch Rexroth Fluid Rating List 90245 are fulfilled.*

| **Klassifizierung von Hydraulikflüssigkeiten / *Hydraulic Fluids Classification*** | |
|---|---|
| Hydraulikflüssigkeiten auf Basis von Mineralölen und artverwandten Kohlenwasserstoffen / *Hydraulic fluids based on mineral oil and related hydrocarbons* | HL (HL), HLP (HM), HVLP (HV) und weitere / *and other* |
| Umweltverträgliche Hydraulikflüssigkeiten / *Environmentally acceptable hydraulic fluids* | HETG, HEPG, HEES, HEPR |
| Schwerentflammbare Hydraulikflüssigkeiten – wasserfrei / *Fire-resistent, water-free hydraulic fluids* | HFDR, HFDU und weitere / *and other* |
| Schwerentflammbare Hydraulikflüssigkeiten – wasserhaltig / *Fire-resistent, water-containing hydraulic fluids* | HFAE, HFAS, HFB, HFC und weitere / *and other* |
| Universal-Traktor-Getriebeöle (Fokus auf Hydraulikanforderungen) / *Universal Tractor Transmission Oils (Focus on hydraulics requirements)* | UTTO |

### Hydraulikflüssigkeiten auf Basis von Mineralölen und artverwandten Kohlenwasserstoffen / *Hydraulic fluids based on mineral oil and related hydrocarbons*

| **Hersteller** *Manufacturer* | | **Fluidname** *Fluid brand name* | **Legend** | **ISO VG** 32 | 46 | 68 | **Kategorie** *Category* | **Gültigkeitsdatum bis** *Valid until* |
|---|---|---|---|---|---|---|---|---|
| ADNOC | ADNOC Distribution | ADNOC Hydraulic Oil H46 | 1 | – | ● | – | HLP (HM) | 2027 |
| AEGEAN | Aegean Marine Fuels & Lubricants FZE | Hydralfa 46 | 1 | – | ● | – | HLP (HM) | 2027 |
| APAR | APAR Industries Ltd. | ENI OSO IM | 1 | – | ● | ● | HLP (HM) | 2026 |
| | | Poweroil Hydrol HLP Pro | 1 | – | ● | ● | HLP (HM) | 2026 |
| AVIA | AVIA AG | AVIA FLUID HVR 46 | 1 | – | ● | – | HVLP (HV) | 2031 |
| BARDAHL | Bardahl de Mexico, S.A. de C.V. | BARDAHL HYDRAULIC OIL | 1 | ● | ● | ● | HLP (HM) | 2026 |
| BayWa | BayWa | TECTROL HYDRAFLEXX XL 46 | 1 | – | ● | – | HVLP (HV) | 2028 |
| BELGIN | Belgin Madeni Yağlar Tic. ve San. A.Ş. | HIDROTEX BSX | 1 | ● | ● | ● | HLP(HM) | 2026 |
| | | HIDROTEX BSX HVI | 1 | ● | ● | ● | HVLP (HV) | 2028 |

**Legende / *Legend***

**1** Zinkhaltig / *with zinc*
**2** Zinkfrei / *without zinc*

## Hydraulikflüssigkeiten auf Basis von Mineralölen und artverwandten Kohlenwasserstoffen / *Hydraulic fluids based on mineral oil and related hydrocarbons*

| Hersteller *Manufacturer* | | Fluidname *Fluid brand name* | Legend | ISO VG 32 | ISO VG 46 | ISO VG 68 | Kategorie *Category* | Gültigkeitsdatum bis *Valid until* |
|---|---|---|---|---|---|---|---|---|
| | Bharat Petroleum Corporation Ltd | MAK Hydrol HLP | 1 | ● | ● | ● | HLP (HM) | 2026 |
| Castrol | BP | Castrol Hyspin AWS HX | 1 | ● | ● | ● | HLP (HM) | 2027 |
| | | Castrol Hyspin ZZ HX | 2 | ● | ● | ● | HLP (HM) | 2026 |
| CHAMPION | Champion Chemicals N.V. | Champion HYDRO | 1 | ● | ● | ● | HLP (HM) | 2026 |
| Chevron Texaco Caltex | Chevron, Texaco, Caltex | Rando HD | 1 | ● | ● | ● | HLP (HM) | 2027 |
| | | Rando HDZ | 1 | ● | ● | ● | HVLP (HV) | 2029 |
| CNH INDUSTRIAL | CNH Industrial | Premium Hydraulic Oil HM | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | Premium Hydraulic Oil HV | 1 | – | ● | ● | HVLP (HV) | 2027 |
| | | Tutela Hydrosystem AW | 1 | ● | ● | ● | HLP (HM) | 2027 |
| | | Tutela Hydrosystem HV NT | 1 | ● | ● | ● | HVLP (HV) | 2028 |
| | | Tutela Hydrosystem HV SSL | 1 | – | ● | – | HVLP (HV) | 2029 |
| CPCLUBE | CPC Corporation, Taiwan | CPC Hydraulic Oil AWS | 1 | ● | ● | ● | HLP (HM) | 2027 |
| enilive schmiertechnik | ENILIVE Schmiertechnik GmbH | AUTOL HVLP 46 RDE | 1 | – | ● | – | HVLP (HV) | 2031 |
| enoc | ENOC Marketing LLC | ENOC AXIS | 1 | ● | ● | ● | HLP (HM) | 2026 |
| Mobil Performance by ExxonMobil | ExxonMobil | Mobil DTE 10 Excel | 2 | ● | ● | ● | HVLP (HV) | 2026 |
| | | Mobil DTE 20 Ultra | 1 | ● | ● | ● | HLP (HM) | 2029 |
| | | Mobil DTE Hydraulic Zinc Free Series | 2 | ● | ● | ● | HLP (HM) | 2026 |
| CO-OP | Federated Co-operatives Limited | Co-op Hydraulic oil | 1 | ● | ● | ● | HLP(HM) | 2028 |
| FUCHS | Fuchs Lubricants Germany GmbH | Renolin B HP Plus | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | Renolin B HVI Plus | 1 | ● | ● | ● | HVLP (HV) | 2030 |
| | | Renolin B Plus | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | Renolin Xtreme Temp | 1 | ● | ● | ● | HVLP (HV) | 2028 |
| | | Renolin ZAF MC | 2 | ● | ● | ● | HVLP (HV) | 2029 |
| oest | Georg Oest Mineralölwerk GmbH & Co. KG | Hydrauliköl HVLP 46 NI | 1 | – | ● | – | HVLP (HV) | 2028 |
| IPOL LUBRICANTS | GP Petroleums Limited | Hydropac Premium XR | 1 | ● | ● | ● | HLP (HM) | 2028 |
| MECALAC | Groupe MECALAC S.A.S. | MECALAC Premium Lubricants Hydraulic Oil | 1 | – | ● | – | HVLP (HV) | 2027 |
| GS Caltex | GS Caltex Corporation | Kixx Hydro XW | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | Kixx Hydro XZ | 1 | ● | ● | ● | HVLP(HV) | 2028 |

**Legende / *Legend***

**1** Zinkhaltig / *with zinc*

**2** Zinkfrei / *without zinc*

## Hydraulikflüssigkeiten auf Basis von Mineralölen und artverwandten Kohlenwasserstoffen / *Hydraulic fluids based on mineral oil and related hydrocarbons*

| Hersteller *Manufacturer* | | Fluidname *Fluid brand name* | Legend | ISO VG 32 | ISO VG 46 | ISO VG 68 | Kategorie *Category* | Gültigkeitsdatum bis *Valid until* |
|---|---|---|---|---|---|---|---|---|
| Gulf | Gulf Oil International Limited | Harmony AW Premium | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | Harmony ZF HVI Premium | 2 | ● | ● | ● | HVLP(HV) | 2029 |
| moil | GÜZEL ENERJI AKARYAKIT A.S. | M Oil HIDROMOL | 1 | – | ● | ● | HLP (HM) | 2026 |
| HARDCASTLE PETROFER | Hardcastle Petrofer PVT. LTD | HILUBRIC HLP SP | 1 | ● | ● | ● | HLP(HM) | 2027 |
| AVIA BANTLEON www.bantleon.de | Hermann Bantleon GmbH | Avia Fluid RSL Plus | 1 | ● | ● | – | HLP(HM) | 2027 |
| HP | Hindustan Petroleum Corporation Limited | ENKLO HLP T PLUS | 1 | ● | ● | ● | HLP(HM) | 2028 |
| IndianOil | Indian Oil Corporation Limited | Servosystem XLP Gold | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | Servosystem XLP Star (L) | 1 | ● | ● | ● | HLP (HM) | 2027 |
| Lopal 龙蟠科技 | Jiangsu Lopal Tech. Co.,Ltd. | Lopal Hypal M1 | 1 | ● | ● | ● | HLP (HM) | 2026 |
| RAJ PETRO A BRENNTAG GROUP COMPANY | RAJ Petro Specialities PVT. LTD. | Kyros HydraPremium HM | 1 | ● | ● | ● | HLP (HM) | 2028 |
| LIQUI MOLY | Liqui Moly GmbH | Liqui Moly Hydrauliköl HyPER SG1 | 1 | ● | ● | ● | HLP (HM) | 2028 |
| PROTEC | LLC KSM PROTEC | PROTEC HYDROIL HM+ | 1 | – | ● | – | HLP(HM) | 2026 |
| mabanol PREMIUM PERFORMANCE | Mabanol Schmierstoffe GmbH & Co. KG | Mabanol Helium Hyd HVLP 46 Plus | 1 | – | ● | – | HVLP(HV) | 2031 |
| MEGUIN OILS OF GERMANY | Meguin GmbH & Co. KG | Meguin Spezial-Hydraulikoel 46 | 1 | – | ● | – | HLP(HM) | 2028 |
| moeve | MOEVE COMMERCIAL S.A.U | MOEVE HYDROSTAR HLP<br>Formerly known as: CEPSA HIDRAULICO HM | 1 | ● | ● | ● | HLP(HM) | 2026 |
| MOL | MOL-LUB Kft. | MOL Hydro HME | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | MOL Hydro Prime HV ZF | 2 | ● | ● | ● | HVLP (HV) | 2029 |
| NILS | NILS S.p.A. | RITOMA HVLP 46 | 1 | – | ● | – | HVLP(HV) | 2028 |
| ORLEN OIL | Orlen Oil Sp. z o.o. | HYDROL HEAVY L-HM/HLP | 1 | ● | ● | ● | HLP(HM) | 2028 |
| pakelo LUBRICANTS | Pakelo Motor Oil S.P.A. a s.u. | PAKELO HYDRAULIC EP EVO | 1 | ● | ● | ● | HVLP(HV) | 2029 |
| PALFINGER | Palfinger AG | Hydraulic Oil Premium | 1 | ● | ● | ● | HVLP (HV) | 2027 |
| PERTAMINA LUBRICANTS | PT Pertamina Lubricants | Turalik 43, 48, 52 | 1 | ● | ● | ● | HLP (HM) | 2026 |
| PETRO-CANADA LUBRICANTS | Petro Canada Lubricants Inc. | HYDREX AW | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | HYDREX MV | 1 | ● | ● | ● | HVLP (HV) | 2028 |
| 昆仑润滑 KunLun Lubricating | PetroChina Lubricant Company | Kunlun HM 32, 46, 68 Anti-wear Hydraulic Oil (High Pressure H) | 1 | ● | ● | ● | HLP (HM) | 2026 |
| Petrol Ofisi | Petrol Ofisi A.S. | Hydro Oil HD | 1 | ● | ● | ● | HLP (HM) | 2026 |
| galp | Petrogal S.A. | Galp Hidroleb Plus | 1 | – | ● | ● | HLP (HM) | 2026 |

**Legende / *Legend:***

**1** Zinkhaltig / *with zinc*

**2** Zinkfrei / *without zinc*

## Hydraulikflüssigkeiten auf Basis von Mineralölen und artverwandten Kohlenwasserstoffen / *Hydraulic fluids based on mineral oil and related hydrocarbons*

| Hersteller *Manufacturer* | | Fluidname *Fluid brand name* | Legend | ISO VG 32 | ISO VG 46 | ISO VG 68 | Kategorie *Category* | Gültigkeitsdatum bis *Valid until* |
|---|---|---|---|---|---|---|---|---|
| PETROMIN | Petromin | Hydraulic Oil AW RX 68 | 1 | – | – | ● | HLP (HM) | 2026 |
| PETRONAS | Petronas Lubricant International | Petronas PROHYD Plus<br>Formerly known as: Petronas Hydraulic Plus | 1 | ● | ● | ● | HLP (HM) | 2027 |
| | | Petronas PROHYD HV Plus<br>Formerly known as: Petronas Hydraulic HV Plus | 1 | ● | ● | ● | HVLP (HV) | 2029 |
| | | Petronas Tutela Hydraulic HV LL | 1 | ● | ● | ● | HVLP (HV) | 2028 |
| | | Petronas Tutela Hydraulic HVI Artic | 1 | ● | ● | – | HVLP (HV) | 2029 |
| PHILLIPS 66 | Phillips 66 Company | Powerflow NZ Hydraulic Oil L-HM | 2 | ● | ● | ● | HLP (HM) | 2026 |
| LOTOS | PKN Orlen S.A. | HYDROMIL L-HM BA | 1 | ● | ● | ● | HLP (HM) | 2027 |
| PUMA LUBRICANTS | Puma Energy International | Puma Hydraulic Oil HVI | 1 | – | ● | ● | HVLP (HV) | 2028 |
| Quaker Houghton | Quaker Houghton | QH QUANTOL DRIVE AW 3000 XP Series | 1 | ● | ● | ● | HLP (HM) | 2026 |
| COPTON | Qingdao Copton Technology Co., Ltd. | Copton Wei Li Da | 1 | – | ● | – | HLP (HM) | 2026 |
| Q8Oils | Q8Oils | Q8 Henry | 1 | ● | ● | ● | HLP(HM) | 2028 |
| RALOY | RALOY Lubricantes, S.A. de C.V. | HIDRAFLUID | 1 | ● | ● | ● | HLP (HM) | 2026 |
| REPSOL | Repsol Lubricantes y Especialiadades S.A. | Maker Telex E | 1 | ● | ● | ● | HLP (HM) | 2026 |
| ROPA | ROPA Fahrzeug- und Maschinenbau GmbH | ROPA hydroFluid STRONG HVLP 46 | 1 | – | ● | – | HVLP (HV) | 2026 |
| 零公里润滑油 ZERO MILEAGE LUBRICANT | Shandong Zero Mileage Lubrication Technology Co., Ltd | ZERO MILEAGE HM | 1 | – | ● | – | HLP (HM) | 2026 |
| THO 太行润滑 | Shanxi Lu-'an Taihang | TaiHang Anti-wear Hydraulic oil L-HM | 1 | – | ● | ● | HLP (HM) | 2026 |
| | Shell International Petroleum Company | Shell Tellus S2MX | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | Shell Tellus S2VX | 1 | ● | ● | ● | HVLP (HV) | 2027 |
| | | Shell Tellus S3Z | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | Shell Tellus S4VE | 1 | ● | ● | ● | HVLP (HV) | 2029 |
| | | Shell Tellus Zinc Free S3MX | 2 | ● | ● | ● | HLP (HM) | 2029 |
| | | Shell Tellus Zinc Free S3VX | 2 | ● | ● | ● | HVLP (HV) | 2029 |
| 司能 | Sineng Petrochemical Co., Ltd. | Seanon Hydraulic Oil HP | 1 | – | ● | ● | HLP (HM) | 2026 |
| | | Ultra-HP Antiwear Hydraulic Oil | 1 | – | ● | – | HLP (HM) | 2026 |
| SINOPEC 长城润滑油 | Sinopec Lubricant Co., Ltd | Great Wall AE Hydraulic Oil | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | Great Wall L-HM Anti-wear Hydraulic Oil (High pressure) | 1 | ● | ● | ● | HLP (HM) | 2029 |
| | | Sinopec AE Hydraulic Oil | 1 | ● | ● | ● | HLP (HM) | 2026 |
| SRS SCHMIERSTOFF VERTRIEB GMBH | SRS Schmierstoff Vertrieb GmbH | WIOLAN HB | 1 | ● | ● | ● | HLP (HM) | 2028 |
| | | WIOLAN HVB | 1 | ● | ● | ● | HVLP(HV) | 2031 |

**Legende / *Legend***

**1** Zinkhaltig / *with zinc*

**2** Zinkfrei / *without zinc*

## Hydraulikflüssigkeiten auf Basis von Mineralölen und artverwandten Kohlenwasserstoffen / *Hydraulic fluids based on mineral oil and related hydrocarbons*

| Hersteller *Manufacturer* | | Fluidname *Fluid brand name* | Legend | ISO VG 32 | ISO VG 46 | ISO VG 68 | Kategorie *Category* | Gültigkeitsdatum bis *Valid until* |
|---|---|---|---|---|---|---|---|---|
| Veedol | Tide Water Oil Co. (India) Ltd. | Veedol Avalon HLP | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | Tiger Petroleum (China) Co., Ltd | TIGER WEINENG® hydraulic oil HDX | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | TIGER WEINENG® hydraulic oil HDM | 1 | ● | ● | ● | HLP (HM) | 2028 |
| Monarch | TongYi Petroleum Chemical Co., Ltd. | TONGYI C6000 ANTIWEAR Hydraulic Oil | 1 | ● | ● | ● | HLP (HM) | 2028 |
| TotalEnergies | TotalEnergies | TotalEnergies Azolla AF | 2 | ● | ● | ● | HLP (HM) | 2028 |
| | | TotalEnergies Azolla ZS | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | TotalEnergies Azolla ZXL | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | TotalEnergies Equivis ZXL | 1 | – | ● | – | HVLP (HV) | 2026 |
| | | TotalEnergies Hydran BE XLI | 2 | ● | – | – | HLP (HM) | 2029 |
| Unil opal | Unil Opal | HFX 46 | 1 | – | ● | – | HLP (HM) | 2026 |
| Valvoline | Valvoline | Valvoline HLP IMEX | 1 | ● | ● | ● | HLP (HM) | 2027 |
| | | Valvoline HLP IMEX ZF | 2 | – | ● | ● | HLP (HM) | 2026 |
| | | Valvoline Ultramax PRO HLP | 1 | ● | ● | ● | HLP (HM) | 2026 |
| | | Valvoline Ultramax PRO HVLP | 1 | ● | ● | ● | HVLP (HV) | 2026 |
| wolf | Wolf Oil Corporation N.V. | WOLF AROW | 1 | ● | ● | ● | HLP (HM) | 2026 |
| Richful | Xinxiang Richful Lube Additive Co., Ltd | Richful HLP | 1 | ● | ● | ● | HLP (HM) | 2027 |
| ZELLER+GMELIN | Zeller + Gmelin GmbH & Co. KG | Divinol HLP ISO VG 46 HBR | 1 | – | ● | – | HLP (HM) | 2026 |
| | | Divinol HVLP ISO VG 46 HBR | 1 | – | ● | – | HVLP (HV) | 2028 |

**Legende / *Legend***

**1** Zinkhaltig / *with zinc*

**2** Zinkfrei / *without zinc*

## Umweltverträgliche Hydraulikflüssigkeiten / *Enviromentally acceptable hydraulic fluids*

| Hersteller *Manufacturer* | | Fluidname *Fluid brand name* | Legend | ISO VG 32 | ISO VG 46 | ISO VG 68 | Kategorie *Category* | Gültigkeitsdatum bis *Valid until* |
|---|---|---|---|---|---|---|---|---|
| ADDINOL | Lube Oil GmbH ADDINOL | ADDINOL NatureProof HLP EL | 3 | ● | ● | ● | HEES | 2029 |
| | | ADDINOL NatureProof HLP S | 3 | ● | ● | ● | HEES | 2029 |
| AVIA BANTLEON | Hermann Bantleon GmbH | Syntofluid BRO | 3 | ● | ● | ● | HEES | 2027 |
| KLEENOIL | KLEENOIL AG | KLEENOIL ECO HLP | 3 | ● | ● | ● | HEES | 2029 |
| | | KLEENOIL ECO HLP EL | 3 | ● | ● | ● | HEES | 2029 |
| MOTOREX | Motorex AG | ECOSYNT HEES | 3 | – | ● | – | HEES | 2030 |
| NILS | NILS S.p.A. | RITOMA HEPR EVO | 2 | – | ● | – | HEPR | 2030 |
| Shell PANOLIN | PANOLIN Distribution AG | Shell PANOLIN S4 HLP Synth<br>Formerly known as: PANOLIN HLP SYNTH | 3 | ● | ● | ● | HEES | 2027 |
| Q8Oils | Q8Oils | Q8 Holbein Bio Xtreme | 3 | – | ● | – | HEES | 2031 |
| RSC BIO SOLUTIONS | RSC Bio Solutions LCC | Futerra HF Series | 2 | ● | ● | – | HEPR | 2030 |
| YORK | YORK SAS | ECOSYNT HEES | 3 | – | ● | – | HEES | 2030 |

## Universal-Traktor-Getriebeöle – UTTO (Fokus auf Hydraulikanforderungen) / *Universal Tractor Transmission Oils – UTTO (Focus on hydraulics requirements)*

| Hersteller *Manufacturer* | | Fluidname *Fluid brand name* | Legend | Viskosität bei *Viscosity at* 40°C [mm²/s] | Kategorie *Category* | Gültigkeitsdatum bis *Valid until* |
|---|---|---|---|---|---|---|
| CNH INDUSTRIAL | CNH Industrial | Akcela MULTI-TRACTION | 1 | 59 | UTTO | 2028 |
| | | Ambra MULTI-TRACTION | 1 | 59 | UTTO | 2028 |
| | | Hydraulic Transmission Oil - Premium | 1 | 59 | UTTO | 2028 |
| | | HY-TRAN<br>Premium Hydraulic Transmission Oil | 1 | 59 | UTTO | 2028 |

**Legende / *Legend***

**1** Zinkhaltig / *with zinc*
**2** Zinkfrei / *without zinc*
**3** gesättigter / saturated ester Ester
**4** ungesättigter Ester / unsaturated ester

Von der Bosch Rexroth AG positiv bewertete Hydraulikflüssigkeiten dürfen von den Schmierstoffherstellern in deren Datenblättern oder sonstigen Publikationen mit folgendem Vermerk geführt werden:
Erfüllt die Anforderungen gemäß Bosch Rexroth RDE 90235 oder Bosch Rexroth Fluid Rating List RDE 90245.
Nicht oder negativ bewertete Hydraulikflüssigkeiten dürfen diesen Vermerk nicht führen.

*Hydraulic fluids rated favourably by Bosch Rexroth AG may be listed by the lubricant manufacturers in their data sheets or other publications with the following note:*
*Meets the requirements of Bosch Rexroth RDE 90235 or Bosch Rexroth Fluid Rating List RDE 90245.*
*Hydraulic fluids that have not been rated or that have been rated negatively may not carry this note.*

**Hinweise**

- Fluid- und anlagenspezifische Besonderheiten sind bei der Projektierung zu berücksichtigen.
- Die Angaben in den Anwendungshinweisen 90220, 90221, 90222 und 90223 sind zu beachten.
- MCR-Motoren mit Haltebremse:
  Die Leistungsdaten der MCR-Bremse basieren auf dem Betrieb der Anlage mit Mineralöl Typ HLP/HVLP nach DIN 51524. Die Verwendung eines anderen Flüssigkeitstyps kann die Bremsleistung beeinträchtigen, insbesondere HEES-Flüssigkeiten stellen ein bekanntes Risiko dar. Bei Rückfragen kontaktieren Sie bitte Bosch Rexroth Engineering in Glenrothes.
- Ausgedruckte Listen sind nicht verbindlich, die aktuelle Version ist im Bosch Rexroth Medienverzeichnis abrufbar: www.boschrexroth.com/fluidratinglist

***Notes***

- *Fluid and system-specific characteristics are to be taken into account during project planning.*
- *The information in the application instructions 90220, 90221, 90222 and 90223 is to be observed.*
- *MCR motors with holding brake:*
  *The MCR brake performance data is based on the system operating with Mineral Oil type HLP/HVLP to DIN 51524. Use of any other fluid type may reduce brake performance, HEES fluids are a particular known risk. Contact the Engineering Department at Bosch Rexroth Glenrothes for advice.*
- *Printed lists are not obligatory, the current version is available in the Bosch Rexroth media directory: www.boschrexroth.com/fluidratinglist*

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