










	F01	F02	F03	F04	F05	F06	F07	F08	F09	F10	F11
	++	+	+	0	++	++	0	-	0	-	0
	-	++	++	+	-	-	++	++	+	++	++
	-	++	++	+	-	-	++	+	+	+	+
	0	++	++	++	-	-	++	++	++	+	++
	+	++	++	++	+	+	++	0	+	0	0
	-	-	-	-	-	++	-	-	-	-	-
	++	++	++	0	0	0	0	0	+	++	++
	-	++	-	-	-	-	-	-	-	-	-
	-30 / 150	-25 / 180	-20 / 120	-20 / 130	-20 / 150	-15 / 250	-40 / 160	-40 / 170	-30 / 150	-40 / 140	-20 / 120

7.1 Lubricants - Grease F01

Standard grease for open gears

Grease F01 | DIN 51825 OGP0N-30 | NLGI-Class 0...1

- based on lithium/calcium complex with extrem pressure additives, which are combined with the soap structure so that an optimum adhesiveness to the metal surface is possible.
- heat-resistant, good corrosion protection attributes, contains no firm components.

Application:

- had been developed as special grease for high loaded open gears.
- due to the high temperature properties usable for a wide range of applications, where high temperature and high load exist.
- also recommended for slide bearings/bushes.

temperature range -30°C to +150°C

Beschreibung	Schmierstoff	Volumen	Verwendung	Artikel-Nr.
Description	Lubricant	Volume	Application	Part-No.
Cartridge for FlexxPump 125; 125 cc	F01	125 cm ³ cc	FlexxPump 125	000-101-101
Cartridge for FlexxPump 125; 250 cc	F01	250 cm ³ cc	FlexxPump 125	000-101-102
Cartridge for FlexxPump 400; 250 cc	F01	250 cm ³ cc	FlexxPump 400	000-101-103
Cartridge for FlexxPump 400; 400 cc	F01	400 cm ³ cc	FlexxPump 400	000-101-105
Bellow for FlexxPump 1500; 1500 cc	F01	1500 cm ³ cc	FlexxPump 1500	000-101-115
Tin 1 kg	F01	1 kg kg		000-101-210
Cartridge for handpress; 400 cc	F01	400 cm ³ cc		000-101-220
Hobbock 18 kg	F01	18 kg kg		000-101-240
Barrel 180 kg	F01	180 kg kg		000-101-250



7.2 Lubricants - Grease F02

With H1-approval

Grease F02 | DIN 51502 KP2R-20 | NLGI-Class 2

- synthetic special grease for high temperatures based on synthetic hydrocarbons with a partial special thickener of high metal affinity.
- NSF/H1-registration

Application:

water (cold, hot) and steam resistant; high thermal and oxidation stability; for high load; very good wear-protection; high service life and wide temperature range; optimum lubricating effect at low friction values

Temperature range -40° C to +140° C

Beschreibung	Schmierstoff	Volumen	Verwendung	Artikel-Nr.
Description	Lubricant	Volume	Application	Part-No.
Cartridge for FlexxPump 125; 125 cc	F02	125 cm ³ cc	FlexxPump 125	000-102-101
Cartridge for FlexxPump 125; 250 cc	F02	250 cm ³ cc	FlexxPump 125	000-102-102
Cartridge for FlexxPump 400; 250 cc	F02	250 cm ³ cc	FlexxPump 400	000-102-103
Cartridge for FlexxPump 400; 400 cc	F02	400 cm ³ cc	FlexxPump 400	000-102-105
Bellow for FlexxPump 1500; 1500 cc	F02	1500 cm ³ cc	FlexxPump 1500	000-102-115
Tin 1 kg	F02	1 kg kg		000-102-210
Cartridge for handpress; 400 cc	F02	400 cm ³ cc		000-102-220
Hobbock 18 kg	F02	18 kg kg		000-102-240
Barrel 180 kg	F02	180 kg kg		000-102-250



7.3 Lubricants - Grease F03

Special grease for linear guideways & ball screws

Grease F03 | DIN 51825 KP2K-20 | NLGI-Class 2

- short-fibred and homogeneous lithium-saponified universal grease based on mineral oil. It can be used for roller and slide bearing lubrication and is appropriate for medium and high load applications.
- very adhesive; appropriate for short-stroke applications.
- water resistant and protective against corrosion.

Application:

- lubrication of linear guidance (recirculating ball bearing and ball screws)
- in combination with a lubrication pinion and continuous re-lubrication suitable for open gear lubrication
- very well pumpable in relubrication units

temperature range -20°C to +120°C

Beschreibung	Schmierstoff	Volumen	Verwendung	Artikel-Nr.
Description	Lubricant	Volume	Application	Part-No.
Cartridge for FlexxPump 125; 125 cc	F03	125 cm ³ cc	FlexxPump 125	000-103-101
Cartridge for FlexxPump 125; 250 cc	F03	250 cm ³ cc	FlexxPump 125	000-103-102
Cartridge for FlexxPump 400; 250 cc	F03	250 cm ³ cc	FlexxPump 400	000-103-103
Cartridge for FlexxPump 400; 400 cc	F03	400 cm ³ cc	FlexxPump 400	000-103-105
Bellow for FlexxPump 1500; 1500 cc	F03	1500 cm ³ cc	FlexxPump 1500	000-103-115
Tin 1 kg	F03	1 kg kg		000-103-210
Cartridge for handpress; 400 cc	F03	400 cm ³ cc		000-103-220
Hobbock 18 kg	F03	18 kg kg		000-103-240
Barrel 170 kg	F03	170 kg kg		000-103-250



7.4 Lubricants - Grease F04

Special grease for bearings

Grease F04 | DIN 51502 KP2K-20 | NLGI-Class 2

- multipurpose grease based on lithiums-calcium-soap with EP additives
- suitable for bearings with middle-range loads

Application:

- lubrication of bearings and ball screws
- in combination with a lubrication pinion and continuous re-lubrication suitable for open gear lubrication
- well pumpable in relubrication units and distributors

temperature range -30°C to +130°C

Beschreibung	Schmierstoff	Volumen	Verwendung	Artikel-Nr.
Description	Lubricant	Volume	Application	Part-No.
Cartridge for FlexxPump 125; 125 cc	F04	125 cm ³ cc	FlexxPump 125	000-104-101
Cartridge for FlexxPump 125; 250 cc	F04	250 cm ³ cc	FlexxPump 125	000-104-102
Cartridge for FlexxPump 400; 250 cc	F04	250 cm ³ cc	FlexxPump 400	000-104-103
Cartridge for FlexxPump 400; 400 cc	F04	400 cm ³ cc	FlexxPump 400	000-104-105
Bellow for FlexxPump 1500; 1500 cc	F04	1500 cm ³ cc	FlexxPump 1500	000-104-115
Tin 1 kg	F04	1 kg kg		000-104-210
Cartridge for handpress; 400 cc	F04	400 cm ³ cc		000-104-220
Hobbock 18 kg	F04	18 kg kg		000-104-240
Barrel 180 kg	F04	180 kg kg		000-104-250



7.5 Lubricants - Grease F05

به صورت سفارشی قابل تحویل می باشد

Special grease for rack and bearings

Grease F05 | DIN 51502 KPF2-P | NLGI-Class 2

- aluminium complex soap and graphite
- based on a high quality mineraloil
- optimum adhesiveness and good corrosion protection

Application:

- lubrication of extrem loaded open racks
- up to 0°C very good pumpable

temperature range -20°C to +150°C

Beschreibung	Schmierstoff	Volumen	Verwendung	Artikel-Nr.
Description	Lubricant	Volume	Application	Part-No.
Cartridge for FlexxPump 125; 125 cc	F05	125 cm ³ cc	FlexxPump 125	000-105-101
Cartridge for FlexxPump 125; 250 cc	F05	250 cm ³ cc	FlexxPump 125	000-105-102
Cartridge for FlexxPump 400; 250 cc	F05	250 cm ³ cc	FlexxPump 400	000-105-103
Cartridge for FlexxPump 400; 400 cc	F05	400 cm ³ cc	FlexxPump 400	000-105-105
Bellow for FlexxPump 1500; 1500 cc	F05	1500 cm ³ cc	FlexxPump 1500	000-105-115
Tin 1 kg	F05	1 kg kg		000-105-210
Cartridge for handpress; 400 cc	F05	400 cm ³ cc		000-105-220
Hobbock 18 kg	F05	18 kg kg		000-105-240
Barrel 185 kg	F05	185 kg kg		000-105-250



7.6 Lubricants - Grease F06

به صورت سفارشی قابل تحویل می باشد

Special adhesion lubricant

Grease F06

- synthetic highly viscous lubricant
- excellent corrosion protection
- very wide temperature range

application:

- lubrication of highly stressed wear points (e.g. racks/pinions, chains)
- water resistance
- very high adhesion prohibits centrifuge of lubricant
- pumpable in lubrication systems: 0°C ... +80°C

temperature range: -15°C +250°C

Beschreibung	Schmierstoff	Volumen	Verwendung	Artikel-Nr.
Description	Lubricant	Volume	Application	Part-No.
Cartridge for FlexxPump 125; 125 cc	F06	125 cm ³ cc	FlexxPump 125	000-106-101
Cartridge for FlexxPump 125; 250 cc	F06	250 cm ³ cc	FlexxPump 125	000-106-102
Cartridge for FlexxPump 400; 250 cc	F06	250 cm ³ cc	FlexxPump 400	000-106-103
Cartridge for FlexxPump 400; 400 cc	F06	400 cm ³ cc	FlexxPump 400	000-106-105
Bellow for FlexxPump 1500; 1500 cc	F06	1500 cm ³ cc	FlexxPump 1500	000-106-115
Tin 1 kg	F06	1 kg kg		000-106-210
Cartridge for handpress; 400 cc	F06	400 cm ³ cc		000-106-220
Hobbock 18 kg	F06	18 kg kg		000-106-240
Barrel 180 kg	F06	180 kg kg		000-106-250



7.7 Lubricants - Grease F07

به صورت سفارشی قابل تحویل می باشد

Special high-temperature grease for bearings

Grease F07 | DIN 51825 KPHC2P-40 | NLGI-Class 2

- synthetic grease
- slight content of PTFE as solid-particles
- wide temperature range

Application:

- sleeve and/or roller bearing; jackscrews; linear guidance
- pumpable in lubrication systems: -40°C ... +80°C

temperature range: -40°C +160°C

Beschreibung	Schmierstoff	Volumen	Verwendung	Artikel-Nr.
Description	Lubricant	Volume	Application	Part-No.
Cartridge for FlexxPump 125; 125 cc	F07	125 cm ³ cc	FlexxPump 125	000-107-101
Cartridge for FlexxPump 125; 250 cc	F07	250 cm ³ cc	FlexxPump 125	000-107-102
Cartridge for FlexxPump 400; 250 cc	F07	250 cm ³ cc	FlexxPump 400	000-107-103
Cartridge for FlexxPump 400; 400 cc	F07	400 cm ³ cc	FlexxPump 400	000-107-105
Bellow for FlexxPump 1500; 1500 cc	F07	1500 cm ³ cc	FlexxPump 1500	000-107-115
Tin 1 kg	F07	1 kg kg		000-107-210
Cartridge for handpress; 400 cc	F07	400 cm ³ cc		000-107-220
Hobbock 18 kg	F07	18 kg kg		000-107-240
Barrel 180 kg	F07	180 kg kg		000-107-250



7.8 Lubricants - Grease F08

به صورت سفارشی قابل تحویل می باشد

Low-temperature special grease for bearings

Grease F08 | DIN 51502 KP HC 2 P-40 | NLGI-Class 2

- synthetic grease
- excellent wear and corrosion protection
- wide temperature range

Application:

- sleeve and/or roller bearing; jackscrews; linear guidance
- pumpable in lubrication systems: -25°C ... +80°C

temperature range: -40°C +180°C

Beschreibung	Schmierstoff	Volumen	Verwendung	Artikel-Nr.
Description	Lubricant	Volume	Application	Part-No.
Cartridge for FlexxPump 125; 125 cc	F08	125 cm ³ cc	FlexxPump 125	000-108-101
Cartridge for FlexxPump 125; 250 cc	F08	250 cm ³ cc	FlexxPump 125	000-108-102
Cartridge for FlexxPump 400; 250 cc	F08	250 cm ³ cc	FlexxPump 400	000-108-103
Cartridge for FlexxPump 400; 400 cc	F08	400 cm ³ cc	FlexxPump 400	000-108-105
Bellow for FlexxPump 1500; 1500 cc	F08	1500 cm ³ cc	FlexxPump 1500	000-108-115
Tin 1 kg	F08	1 kg kg		000-108-210
Cartridge for handpress; 400 cc	F08	400 cm ³ cc		000-108-220
Hobbock 18 kg	F08	18 kg kg		000-108-240
Barrel 180 kg	F08	180 kg kg		000-108-250



7.9 Lubricants - Grease F09 & F10

به صورت سفارشی قابل تحویل می باشد

Special grease for highspeed roller bearings

Grease F09 | DIN 51502 KP 2K-30 | NLGI-Class 2

- special lithium complex soap
- based on mineral oil

Application:

- sleeve and/or roller bearing; jackscrews; linear guidance
- pumpable in lubrication systems: -15°C ... +80°C

temperature range: -10°C +80°C

Beschreibung	Schmierstoff	Volumen	Verwendung	Artikel-Nr.
Description	Lubricant	Volume	Application	Part-No.
Cartridge for FlexxPump 125; 125 cc	F09	125 cm ³ cc	FlexxPump 125	000-109-101
Cartridge for FlexxPump 125; 250 cc	F09	250 cm ³ cc	FlexxPump 125	000-109-102
Cartridge for FlexxPump 400; 250 cc	F09	250 cm ³ cc	FlexxPump 400	000-109-103
Cartridge for FlexxPump 400; 400 cc	F09	400 cm ³ cc	FlexxPump 400	000-109-105
Bellow for FlexxPump 1500; 1500 cc	F09	1500 cm ³ cc	FlexxPump 1500	000-109-115
Tin 1 kg	F09	1 kg kg		000-109-210
Cartridge for handpress; 400 cc	F09	400 cm ³ cc		000-109-220

Longterm grease for bearings

Grease F10 | NLGI-Class 2

- lithium soap
- excellent wear protection
- good protection for deterioration/weathering
- best performance for high- and low-temperature applications

Application:

- sleeve and/or roller bearing; jackscrews; linear guidance
- pumpable in lubrication systems: -20°C ... +80°C

temperature range: -10°C +140°C

Beschreibung	Schmierstoff	Volumen	Verwendung	Artikel-Nr.
Description	Lubricant	Volume	Application	Part-No.
Cartridge for FlexxPump 125; 125 cc	F10	125 cm ³ cc	FlexxPump 125	000-110-101
Cartridge for FlexxPump 125; 250 cc	F10	250 cm ³ cc	FlexxPump 125	000-110-102
Cartridge for FlexxPump 400; 250 cc	F10	250 cm ³ cc	FlexxPump 400	000-110-103
Cartridge for FlexxPump 400; 400 cc	F10	400 cm ³ cc	FlexxPump 400	000-110-105
Bellow for FlexxPump 1500; 1500 cc	F10	1500 cm ³ cc	FlexxPump 1500	000-110-115
Cartridge for handpress; 400 cc	F10	400 cm ³ cc		000-110-220



7.11 Lubricants - Grease F11

Special grease for highspeed bearings

Grease F11 | DIN 51825 KP 1 K-20 | NLGI-Class 1

- special lithium soap
- excellent wear protection
- good emergency running properties
- best performance in lubrication systems

Application:

- sleeve and/or roller bearing; jackscrews; linear guidance
- pumpable in lubrication systems: -20°C ... +80°C

temperature range: -20°C +120°C

Beschreibung	Schmierstoff	Volumen	Verwendung	Artikel-Nr.
Description	Lubricant	Volume	Application	Part-No.
Cartridge for FlexxPump 125; 125 cc	F11	125 cm ³ cc	FlexxPump 125	000-111-101
Cartridge for FlexxPump 125; 250 cc	F11	250 cm ³ cc	FlexxPump 125	000-111-102
Cartridge for FlexxPump 400; 250 cc	F11	250 cm ³ cc	FlexxPump 400	000-111-103
Cartridge for FlexxPump 400; 400 cc	F11	400 cm ³ cc	FlexxPump 400	000-111-105
Bellow for FlexxPump 1500; 1500 cc	F11	1500 cm ³ cc	FlexxPump 1500	000-111-115
Cartridge for handpress; 400 cc	F11	400 cm ³ cc		000-111-220

