#### Initial pressure sprayer

# 

77098

#### Design

- Clear durable tank with level indicator
- Built-in safety valve (2.5 bar)
- Including 3 nozzles to adjust the foam quality, as well as for different exposure times (black = normal, green = dry, orange = wet)
- and the surface to be cleaned ensures increased effectiveness of the chemical product Applications

- Increasing the contact time between the chemical

- For cleaning/disinfecting surfaces, workpieces,
- vehicles, sanitary facilities. Suitable for neutral cleaners as well as diluted acidic
- and alkaline cleaners. Particularly suitable for cleaning vehicles, work
- surfaces and machine parts.

Weight

q

90

77099

77101

101

101



Fill volume

1

#### 77099 Sprayer

#### Design

Translucent container, with a long neck and adjustable nozzle, DIN thread 28-400. Applications Specially designed for the use of low-viscosity

substances.



77101

Fill volume

77102

ATOR

- 360° rotating spray tube

77103

2.0

#### Spraying device

#### Design

Translucent container, stainless-steel pump unit, seal made of special Viton material. Applications For use in industry and trade.

Weight

a

500

Fill volume	Weight g	77100	
0.5	140		101



77098

77099

#### Spraying device

**Operating pressure** 

#### Desian

#### Applications Translucent container, made of high-quality materials, seals made of special Viton material.

bar

3

Compressed air spray device

For use in industry and trade.

**Displacement volume** 

	-	- 48
		1/5
		1

77101

77102	

HAZET

##

#### coupling Applications

Applications

cleaner.

According to the suction principle for highly fluid

- Environmentally friendly: CFC-free and reusable

for filling with compressed air

- The valve located in the bottom is used exclusively

For use with multifunction sprays, such as penetra-

ting oil and rust remover, as well as rim and brake

- Spray material container 0.7 I made of plastic

- Air connection with connector for guick-action

I/min.

0.4-1.2

THE HOZZIE	ie media.					
Max. operating Pressure bar	Recommended Working pressure bar	Nozzle diameter mm	Spray cone approx. °	Operating Temperature °C	77102	
10	2 - 6	3	40	+5 - +50		101

#### Spray bottle



#### Design

Design

- Cost savings due to the use of large containers

- The stream and volume are controlled by turning

- Safety valve
- Viton seals
- Including 155 mm long jet nozzle and short spray nozzle
- Easy cleaning thanks to two-piece design
- Easy filling via the neck of the bottle (diameter 25 mm) or into the lower section (diameter 54 mm)

		- · · · · · · · · · · · · · · · · · · ·		
Capacity	Max. operating pressure	Weight	77103	
ml	bar	kg		
227	8	0.4		101



77.1

## Oil dispensers | Oil spray cans | Hand pumps | Suction syringes



#### 77142 301-303

- Design
- Made from sheet steel
- Painted blue - With brass pump
- With rigid and flexible metal spray tube
- Non-slip handle
- High stability
- Applications
- For industrial and workshop use.

HW

# 77144 301-303

#### Design

- Made from polyethylene
- Transparent
- With brass pump
- With rigid metal spray tube
- Non-slip handle
- Conical shape for stability
- Applications
- For industry, workshop and hobby applications.
- Polyethylene Sheet steel Contents 77142 77144 ml 200 301 301 300 302 302 500 303 303



77.2

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= The specified prices are unit prices. Only sold in the specified packing 7 units. Always specify number of units in order information.

ena/P

#### Special oil spray can

#### Design

77145

With high-pressure pump, round tinplate container and metal spray tube, oil delivery also adjustable drop by drop, intermediate base to prevent oil leaks, thus lubricates in every situation.



77145

Contents ml	Spray tube length mm	Container height mm	77145	
250	170	130		102

#### Hand pump

# <u>leilang</u>

Design

77180

#### Applications

Can be used in all industry and trade applications to fill heating oils, mineral, synthetic and biological oils, washing solvent, coolant, anti-freeze, spirit, petroleum etc.

77180

102

	77180
Elong Atcusu	P
Elone Arcusu	

handle.			
Pumping performance	Pipe Ø	Hose length	

mm

40

Manual dispensing pumps

mm

600

# <u>leilang</u>

77181

Design With transparent cylinder made of rigid PVC, graduation in cl for controlled filling and emptying of any fluid. Smooth running, high suction capacity and fast.

Double-action hand pump, with intake and outlet

hose. Full metal construction made of light metal,

ml/stroke

260

#### 77181 101

Design

Including 300 mm flexible hose and 130 mm straight tube.

#### 77181 102

Design

Including 750 mm flexible hose.

Pumping performance ml/stroke	Pipe Ø mm	Pump stroke mm	Weight g	77181	
150	40	208	645		101
1000	60	420	768		102



77185 - 77187

# Oil and petrol suction syringes

77185 103

Design

77186 Additional tube.

77187

Suction syringe.

diameter 12 mm.

Applications

For viscous oil.

Flexible metal tube.

<u>leilang</u>

#### Design

Suction and pressure effect, aluminium cylinder tube, wear-resistant and smooth with PTFE piston rings.

#### Note:

Art. no. 77186 - 77187 suitable for both suction syringes.

#### 77185 102

#### Suction syringe.

Design

Size 2 including 3 small connecting tubes 90/140 and 250 mm long, Ø 10 mm.

Size	Contents approx. ml	Ø mm	Pump stroke mm	Length mm	Pipe Ø mm	77185	77186		77187	
2	750	60	255	-	10	102				
3	1000	60	363	-	12	103				
	-	-	-	200	12			101		
	-	-	-	250	10					101

Size 3 including 1 straight tube 300 mm long,

77.3

HW

77185 102

77181 101



77186 ÷





Workshop equipment

ena/P

#### 77305 - 77306 Liquid measures

#### Design

With a funnel-shaped spout.

## 77305

Design Tinplate, can be calibrated.

#### 💁 [hơ

#### 77306

**Design** Zinc-plated sheet steel, swivelling carry handle.

Contents	77305 77306	
I		
1	102	
10	1	02



#### 77319 - 77321 Funnel

#### 77319

**Design** Tinplate with overflow edge, air groove in the tube, with removable sieve.

#### 77321

Flexible extension tube.

Upper Ø 77319 77321 mm 160 101 101		Funnel	Extension tube	
	Upper Ø	77319	77321	
160 101 101	mm			
	160	10	)1	101







For metal drums. Suitable for standard 60 or 200 l oil drums. Funnel for waste oil or chemical disposal (polyethylene).

Drum screw	Ø	Volume	77325
connection	mm	I	
2 inch outer	250	3.2	101

**Oil supply cans DIN 6425** 

#### 77350

#### Design

Made from tinplate, with hinged lid and captive pipe closure, strong carrying handle.

Volume I	Height mm	77350 .	••
5	290	10	2
10	350	10	3





77.5

| HEN

Colour

red

red

red

#### 77370 **Fuel canister**

#### Design

With flexible outlet. Robust and insensitive to impact. Cap protected against loss with fixing band. Outlet tube with integrated vent. Outlet tube is kept in the canister: Contamination caused by transport is prevented and loss of the outlet tube is made more difficult. High stability through large base area. With solid handle for easy carrying. Design optimised and dimensionally stable through all-round tank reinforcements. TÜV tested, UN/BAM approval.

HxLxW

237 x 331 x 185

319 x 329 x 195

410 x 385 x 229

mm

Applications For liquid fuels. Quality Material HDPE.

Outlet tube Ø

mm

20

20

20



77371

Volume

5

10

20

#### Metal canister MK 20

Outlet tube length

mm

195

195

195

77371 101
Design
Interior painted, without outlet tube, can be ventila-
ted.

#### Applications

For all types of motor vehicles as well as for unleaded petrol.

	Flexible, zinc-plated.	
or		

77371 102

Outlet tube

Design

Туре	Volume I	Colour	Weight approx. kg	77371
Canister	20	Green	3.6	101
Outlet tube	-	Olive	0.23	102



#### Washing bowl

#### Desian

With a removable perforated plate insert, the lid closes tightly and prevents evaporation of the washing fluid; engages when opening. In case of fire, the lid closes automatically and the flame is suffocated. Black metal painted on the outside.

#### Applications

For washing small parts with flammable cleaning

# agents.



Volume	Ø	Height	77405	
approx. I	mm	mm		
5	300	125		101

77415

## 💁 [hơ

77405

#### 77415 201-202

#### Collector 70 + 100

#### Design

- Mobile devices with 70 l or 100 l reservoirs - Compact and rounded with separate side level
- indicator
- Container surface is powder-coated, impact-resistant and colour stable, white
- Chassis consists of two large driving wheels and
- two steering wheels with reinforced wheel support - Collection hopper with sieve insert, centralised or decentralised mounting possible
- Pressure emptying via a separate discharge hose with a pressure safety valve, max. 8 bar

#### Applications

For the collection and/or suction of waste oils or other non-corrosive liquids with a flash point above 55°C from vehicles or machines.

#### Scope of delivery:

Professional used oil collection devices

- Used oil collection cart with pressure drainage
- 2 m rubber discharge hose with discharge pipe
- and drip protection
- Collection hopper Ø 440 mm, H 180 mm

#### 77415 202 Collector 100

#### Design

- Additionally with storage for small tools, filters,
- additional adapter, handles
- Innovative running gear with wheel guard and bracket
- Decentralised additional attachment for existing oil
- drip pan, can be rotated 360°
- Additional spray protection



Туре	Container content	Discharge hose	Collection hopper Ø	77415
	I	m	mm	
COLLECTOR 70	70	2	440	201
COLLECTOR 100	100	2	440	202

HW

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#### 77420 - 77421 Small parts cleaner

#### Design

Table-top model with 4 feet, work surface and spray guards zinc-plated.

With safety foot-operated switch and cleaning brush, with electric pump, connecting cable and plug. Tested in accordance with ZH 1/562 04.82, DIN VDE 0700 T1A6 12.91 and DIN VDE 0700 T236 03.84. Delivered without drum.

#### Applications

For cleaning machine parts and implements with commercial cold cleaners.

#### Note:

The cleaning agent is transferred directly into the cleaning brush by a self-priming drum pump. The dirty cleaner flows directly back into the drum, where the dirt particles settle at the base. The intake of fresh fluid is always in the upper area. Version with compressed-air pump and cold cleaner deliverable on request.

77421

Replacement hollow-shaft brush, Ø 30 mm.

		FRODUCT SERVICE	77420
		3	>
77421	Π		
Ţ			

FM

	Replacement brush					
External dimensions H x W x D mm	Working height mm	Performance I/min.	77420		77421	
1350 x 800 x 550	950	3 - 5		101		
	-	-				101

#### 85590

#### Safety collection container

#### Design

#### Applications

For safe collection of used cleaning materials.

Made of sheet steel, interior tin plated for flammable solids. Easy to open with foot pedal. Self-closing lid. Perforated bottom rim prevents warming of the base/self-ignition. No leakage of accumulated liquids. High stability. Container labelling prepared according to GefStoffV and BGV A8. Tested safety product.

ted soaking tray with flame arrester. Economical

to the tank. Reduction of escaping vapours to a minimum. Good media resistance, even with contaminated materials. High stability. Container labelling prepared according to GefStoffV and BGV

Volume	Ø x height	Paint	85590	
I	mm	on outer		
20	290 x 397	Powder-coated, red		101

# 85593

#### **Eco-moistener**

#### Design

#### Applications

Made of sheet steel, interior tin plated. Spring-moun-For economical moistening of a cleaning cloth where only small quantities of solvent are required. removal of cleaning fluid, unneeded fluid flows back

- With universal and pointed nosepiece.

Volume I	Ø x height mm	Soaking tray diameter mm	Paint on outer	85593
0.5	120 x 135	75	Powder-coated, red	101
2.0	180 x 190	135	Powder-coated, red	104

High-pressure push guns

77500 102

## 77500

#### 💁 [hơ

- 77500 101-102
- Made from steel
- With universal nosepiece

A8. Tested safety product.

Applications

#### For greases and oils.

Volume ml	Pressure capacity approx. bar	77500	
60	200		101
150	200		102





Ū

85590



77500

77.7

#### Presses | Grease nipple assortment boxes | Hydraulic nosepieces

#### 77540 - 77543 Grease guns

#### Applications

For loose greases, cartridges and grease filling devices. Connecting thread M10 x 1.

#### 🖍 [hơ

#### 77540 101

#### Single-handed gun PEP500/D

Design

- With nozzle pipe 103/R with 4-jaw professional nosepiece
- Made of precision steel
- Plastic display bag
- Filling nipple
- Quick refilling with the Füllmeister® or with 400 g grease cartridges (DIN 1284)
- Volume 500 cm3/400 g
- Connecting thread G 1/8 inch

#### - Weight 1.4 kg

Applications

For use in hard-to-reach greasing locations.

#### 🖍 [hơ 77540 302

- Professional lever gun X-TRA 701/M DIN 1283 - Steel, strong and durable
- Display box
- Filling nipple
- Safety handle
- Quick refilling with the Füllmeister® or with 400 g grease cartridges (DIN 1284)
- Volume: 500 ccm/400 g
- Connecting thread M10 x 1
- Weight 1.3 kg

#### 77540 203 Hand-lever grease gun Design

Workshop equipment

- With die-cast zinc head Z 410, - Burst pressure testing at approx. 1200 bar,
- Filling volume 500 cm<sup>3</sup>,
- Displacement volume/stroke approx. 1.2 cm3,
- Supply pressure up to 400 bar,
- No misleading signs of lubrication through precise fit of pumping piston and cylinder,

101

302

203

301

- Incl. armoured hose 11 x 300 mm,
- Nozzle pipe, bent 150 mm and

Grease guns

77540

- 2 x nosepiece with 4 turned jaws.

#### 77540 301

#### Pneumatic grease gun DL Plus Design

- Pressure transmission 1:50,
- Recommended working pressure 6 bar,
- Displacement per stroke 0.8 cm<sup>3</sup>,
- Nominal volume 500 cm<sup>3</sup>
- Complete with armoured hose,
- 4-jaw nosepiece,
- Hanging eyelet and
- Filling nipple.

#### 🕗 [hơ

#### 77543 101-104

- Accessories for art. no. 77540.

#### 77543 101

#### Nozzle pipe

- Bent, with hydraulic gripper coupling.

#### 77543 102

- Armoured hose
- Ø 11 mm.
- 300 mm long,
- Made from polyamide with hydraulic nosepiece.

#### 77543 103

- Nosepiece assortment
- Made from steel,
- Bright nickel-plated,
- Comprising: Hollow nosepiece, pointed nosepiece and hydraulic nosepiece.

#### 77543 104

- Hydraulic nosepiece - 4 jaws with wrench surface.







# **QUICK-FIX** professional nosepiece

101

102

103

104

Accessories

77543

#### 🖍 [hơ Design

- Self-locking automatic 7-ball quick-action mechanism
- Spring-supported quick-action coupling with easygrip and non-slip surface for coupling and
- releasing
- Rotationally symmetrical design - No separate swivel required
- Steel bronzed

Version M 10 x 1

- No larger than a cor 4-jaw nosepiece

riequi	leu		
onvent	ional professional		
	Decouple up to max. ar working pressure	Leak-free sealing up to bar	77545
	700	700	100

HW

- 77545
- NEW





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77.8

Туре

ena/P

- - 1
- 77543 104



•
Applications
For all hydraulic grease nipples in accordance with
DIN and SAE. Can be used together with all
common manual, pneumatic and battery-operated
grease guns.

77544	Grease nipple assortment box						
Professional conical grease nipples in accordance with DIN 71412.			Set contents           30         Straight (180°) M 6 x 1           20         Straight (180°) M 8 x 1           10         Straight (180°) M 10 x 1           10         Straight (180°) M 10 x 1           10         Straight (180°) M 6 x 1           10         Angled (45°) M 6 x 1           10         Angled (45°) M 10 x 1           11         Angled (45°) M 10 x 1           12         Angled (45°) M 10 x 1           13         Angled (45°) M 10 x 1           14         Angled (45°) M 10 x 1	HI MART HI MART HO MIRE HO MAR BORN BOM HO MAR			
Content	77544		10 Angled (90°) M 8 x 1 5 Angled (90°) M 10 x 1	- TO CHAIN AND AND AND AND AND AND AND AND AND AN			
120 pieces		101	5 Angled (90°) R 1/8 inch	(D) (5 - 0)			

#### Cordless grease guns Red Li-ion

## Milwaukee

90317

#### Note:

For replacement charger, see art no. 90318 103.

#### 90317 101

#### M12 GG

#### Design

- Up to 7 cartridges per battery charge
- Balanced design only 355 mm in length
- REDLINK™ electronic overload protection for a long service life for the battery, motor and gears
- Bleed valve for fast work progress
  Capacity when filling from containers is 454 g and for cartridges 411 g
- Integrated hose stand and suspension device for shoulder strap
- Handle with soft-grip support
- Battery charge indicator

#### Applications

Ideal for lubrication of vehicles and machines in

#### mobile applications.

#### Scope of delivery:

- Transport bag
- 1 x 12 V/4.0 Ah red Li-ion battery
- Quick charger, C12 C

## 90317 102

#### M12 PCG 310 C

#### Design

- Discharge pressure of up to 178 kg/1780 N
- Optimised for all common adhesives and sealants
- REDLINK™ electronic overload protection for a long service life of battery, motor and gears
- Electronic control of the discharge speed by an adjusting wheel
- Electronic switch with speed control
- Automatic return of pressure rod prevents drops emerging
- Integrated spike to pierce glued cartridge
- openings
- Battery charge indicator **Scope of delivery:**

### - Transport bag

- 1 x 12-V/2.0-Ah Red Li-ion battery
- Quick charger, C12 C
- 310-ml cartridge holder
- Push bar



#### **■**DLITHIUM-ION<sup>™</sup>

90317 102

Туре	Volt/Ah	Operating pressure bar	Flow rate g/min	Hose pressure bar	Hose length mm	Weight with battery kg	90317
M12 GG	12.0/4.0	562	74	690	914	3.3	101
M12 PCG 310 C	12.0/2.0	-	-	-	-	1.9	102

77550

#### Professional single-handed guns



77.9

H M

77551	Multi-purpose grease in cartride	ge	
Design For grease guns art. no.	77540 and other commercial guns.		
Content approx. g		77551	
400			101
77555	Grease filling device		
Design	Scope of delivery: Grease follower cover, dust	t protection cover,	fill tube

#### with sleeve. Applications

For filling grease guns. Suitable for organic lubricating greases, long-lasting greases with adhesive additives and for greases up to consistency class 2 (low-viscosity greases).

For containers kg	Inner Ø mm	Delivery rate ccm/stroke	Pump pipe Ø mm	77555	
15 - 18	255 - 282	50	40		102

#### **Pneumatic lubrication device**

🖍 [hơ

77605

#### PM 15 mobile

#### Design

cover.

- With safety lubrication hose 4 m.
- Incl. conditioning unit for low-wear operation and drum fitting with 2 inch thread.

Increased suction performance with longer stroke

and larger intake and valve openings. Stable and

emptying sequence with special grease follower

wear resistant due to reinforced steel lever. Environmentally friendly, economical, air-free filling. Bucket

- Pre-feed system for secure feeding of long-lasting greases.
- High delivery rate through transformation ratio of 1:55, suction connection and safety lubrication hoses with a large inner diameter.
- Grease follower cover for buckets with inner Ø 260 -290 mm.
- Steel dust cover for buckets with outer Ø 265 -
- 310 mm. - High-pressure lubrication gun with ball bearingmounted pro-Z joint, exceptionally smooth under pressure.
- Compressed air connection/grease outlet G 1/4 inch female thread.
- Trollev. Applications

Suitable for oils and greases up to consistency class 2, also organic greases (multi-purpose greases).

Air pressure	Lubrication pressure	Burst pressure	Delivery rate*	77605
min./max. bar	max. bar	bar	approx. ccm/min	
3/10	400	1600	600	101

\*With open discharge and 7 bar input pressure.

#### Professional quick change set SWS

## 🖍 [hơ

77620

Design

In sturdy plastic case with oil-resistant inlay.

	Set contents		
1	Nozzle pipe 103/M, straight, with 4-jaw professional nosepiece,		
2	4-jaw professional nosepieces 120/M,		
1	Quick-change armoured rubber hose 2200,		
1	Quick-change nozzle pipe with thrust coupling 2070/M 1,		
1	Quick-change nozzle pipe with combi nosepiece,		
1	Connecting piece R 1/8 inch inside, M 10 x 1 outside.		
Des	sign Weight	77620	
	approx. kg		
In p	plastic case 0.80		102

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ena/P



#### 77720

#### Drum and container pumps

# **FLUX**

#### Note

Other immersion depths and versions deliverable on request

#### 77720 101

#### Pump set for low delivery rates Design

- IP 24

- With 2-stage switch for precision filling Applications

For filling, transferring and metering of acids and alkalis like battery acid, ammonia water, glycols, sodium hydroxide and soap solution.

#### 77720 202

#### Pump set for acids

#### Design

- Drum screw fitting and FLUX clip for secure fixation of the nozzle onto the pump

- IP 24
- With speed adjustment and under-voltage tripping.

#### Applications

For dispensing acids such as boric acid, fruit acids, phosphoric acid, hydrochloric acid and sulphuric acid (up to 80%).

#### 77720 103

### Pump set for mineral oil products

#### Design

Drum screw fitting and FLUX clip for secure fixation of the nozzle onto the pump - IP 24

#### - With under-voltage tripping

Applications

For dispensing mineral oil products such as diesel, heating oil, hydraulic oil, mechanical oil and engine oil.

#### 77720 104

#### Pump set for highly flammable liquids Design

#### - Base Ø 43 mm

- Drum screw fitting and FLUX clip for secure fixation of the nozzle onto the pump
- Motor explosion-protected in accordance with II 2 G EEx de IIC T6, in accordance with the ATEX Directive 94/9/EC
- Category 2 with under-voltage tripping

#### Applications

For dispensing flammable liquids such as acetone, petrol, butanol, ethanol, methanol, toluene, xylene etc. For safely dispensing low-viscosity, neutral, corrosive and flammable liquids. Pumps used for transporting flammable liquids may only be made of stainless steel in combination with an explosion protected (only up to a maximum of 40°C!) collector motor or pneumatic motor.



77720 101



77720 103

77720 104



Technical data:		Pump F 314 PP	Pump F 430 PP	Pump F 430 AL	Pump F 424 S
Material		Polypropylene	Polypropylene	Aluminium	Stainless steel 1.4571
Outside Ø	mm	25	40	41	41
Pressure joint		G1A	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A
Hose line *		PVC DN 13	PVC DN 19	Mineral oil DN 25	Universal DN 21
Length *	m	1.5	2.0	2.0	2.0
Nozzle		PP	PP	AL	Brass
Seal		FKM	FKM	NBR	PTFE
Collector motor	W/V/Hz	230/230/50	500/230/50	800/230/50	460/230/50
Connecting cable	m	5, 2-pin connector	5, 2-pin connector	5, 2-pin connector	5, grounding contact plug (not ex-protected)

Pump type	Collector motor type	Flow rate max. I/min.	Flow rate max. l/min.*	Delivery height max. m	Viscosity max. mPas	Temperature max. °C	Immersion depth mm	Weight kg	77720	
F 314 PP	FEM 3070	40	15	5.2	250	45	700	2.4		101
F 430 PP	FEM 4070	165	40	9.5	600	50	1000	5.1		202
F 430 AL	F 457	220	80	12.0	800	80	1000	7.8		103
F 424 S	F 460 Ex	200	50	9.5	600	100	1000	10.9		104

Technical data:

Material

Outside Ø

Hose line

Battery motor

Length

Nozzle

Charger

Seal

77721 102

\* With hose and nozzle

77721

#### Pump set COMBIFLUX

# FLUX

#### 77721 101

Design

- COMBIFLUX pump set for filling, transferring and metering acids and alkalis, water, ammonia water, low-viscosity oils and chemically neutral fluids
- Also suitable for dispensing small quantities - Can dispense from narrow-necked and hard-to-re-
- ach containers
- Comprising: Motor, IP 44, charger, seal-less pump design, shaft made of Hastelloy C, hose line, nozzle with seals
- Charging time: 55 min.

#### 77721 102

#### Design

- Replacement lithium-ion battery for COMBIFLUX pump set
- Nominal voltage: 18 V
- Nominal capacity 2.5 Ah and 45 Wh

-	Charging	time:	55	min.	

Туре	Battery motor	Flow rate I/min.	Delivery height max. m	Viscosity max. mPas	Immersion depth mm	Weight kg	77721	
FP 314 PP-25	FBM-B3100	12-60	8.5	250	700	2.4		101
Battery B15-3100	-	-	-	-	-	0.35		102

# 77721 101



Pump 314 PP-25

Polypropylene

PVC DN13

18/2.5/45

220-240/50-60

25

1.5

PP

FKM

mm

m

V/Ah/Wh

V/Hz

HIN 77.11



#### Lubrication systems art. no. 77810 - 77822

#### The clever way to lubricate.

Info

perma lubricant dispensers are closed dispenser systems without an external power supply for automatic and location-independent single-point lubrication of roller bearings and plain bearings, industrial chains, open gears and slide guides.

#### Lubricant types

SF 01 Universal grease for all areas at operating temperatures of -30°C to +130°C.
SF 04 High-temperature grease for high operating temperatures from -20°C to +160°C.
SO 14 High-performance oil for high lubrication demands of industrial chains at temperatures from -20°C to +250°C.

Code	Lubricant	NLG class	Thickener	Basis	Temperature range	Application	DIN
SF 01	Universal grease	2	Li/Ca	Mineral	-30°C to +130°C	Universal	KP2K-30
SF 04	High-temperature grease	0/1	PHS	Mineral + PAO	-20°C to +160°C	High operating temperatures	K1S-20
SO 14	High-performance oil	_		Synthetic	-20°C to +250°C	Industrial chains	CLPE320

#### 77810 - 77822 Lubricant dispenser perma CLASSIC

Note:

#### 77810

perma CLASSIC

#### . Desian

Electrochemically operated lubricant dispenser, metal housing with 120 cm<sup>3</sup> filling volume with empty level indicator.

#### Applications

Depending on the lubricant required, select an activation screw, which uses a gas generator to build up a pressure, which drains the lubricant tank in the desired period of time (1, 3, 6 or 12 months) and thus guarantees a uniform dosage. The maximum pressure is 4 bar with an operating temperature range from 0°C up to +40°C.

Labeland December Occurrent

#### An activation screw is required in each case. 77822 Activation screws Design Black sealing ring as an identification. Dosage duration at +20°C reference temperature. Applications For lubricant dispensers perma CLASSIC and FUTURA.



Lubricant type	Dosage duration Months	Screw colour	77810		11822	
SF 01	-	-		101		
SF 04	-	-		102		
SO 14	-	-		103		
-	1	Yellow				101
-	3	Green				102
-	6	Red				103
-	12	Grey				104





## 77820 - 77822

#### Lubricant dispenser perma FUTURA

#### 77820

perma FUTURA

#### Design

#### Electrochemically operated lubricant dispenser, transparent plastic housing with 120 cm<sup>3</sup> filling volume.

#### Applications

Depending on the lubricant required, select an activation screw, which uses a gas generator to build up a pressure, which drains the lubricant tank in the desired period of time (1, 3, 6 or 12 months) and thus guarantees a uniform dosage. The maximum pressure is 4 bar with an operating temperature range from 0°C up to +40°C.

Lubricont tuno Docogo duration

/ **#: //** 

77.12

#### Note:

An activation screw is required in each case.

#### 77822 Activation screws Design Black sealing ring as an identification. Dosage duration at +20°C reference temperature. Applications For lubricant dispensers perma FUTURA and CLASSIC.



Lubricant type	Months	Screw colour	11820		11022	
SF 01	-	-		101		
SF 04	-	-		102		
-	1	Yellow				101
-	3	Green				102
-	6	Red				103
-	12	Grey				104

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