

77099**Sprayer****Type**

Natural transparent container, with long neck and adjustable nozzle, DIN thread 28-400.

Use

Especially suited for use with low-viscosity substances.

**77099**

Fill volume	Weight	77099	...
l	g		
1	90		101

77100**Sprayer****Type**

Natural transparent container, stainless steel pump mechanism, seal of special Viton material.

Use

For use in industry and trade.

**77100**

Fill volume	Weight	77100	...
l	g		
0,5	140		101

77101**Sprayer****Type**

Natural transparent container, made of high-grade materials, seals made of special material Viton.

Use

For use in industry and trade.

**77101**

Fill volume	Weight	Operating pressure	Delivery volume	77101	...
l	g	bar	l/min.		
2,0	500	3	0,4-1,2		101

77102**Compressed-air sprayer****ATORN®****Type**

With 360° swivelling spray pipe. Spray amount and shape can be controlled by means of turning the nozzle. Spray container 0,7 l made of plastic. Air connection with plug for quick-release coupling.

Use

In compliance with the suction principle for low-viscosity fluids.

**77102**

Max. operating pressure bar	Recommended working pressure bar	Nozzle Ø mm	Spray angle approx. °	Operating temperature °C	77102	...
10	2-6	3	40	+5 - +50		101

77105**Drip feed lubricator****Type**

Made of transparent Cellidor, operating by pressing button, fountain pen format, with clip and sealing cap.

Use

For drip feed lubricating, e.g. on precision mechanical devices, hinges, etc.

**77105**

Contents ml	Length mm	Weight g	77105	...
5	140	20		102

77115**Plastic lubricators****Type**

Resistant to oil, petrol and acid.

Size 1: flat container with fixed squirt tube.

Size 2 and 3: round polyethylene container with brass squirt tube.

Use

For trade and industry.

Size	Contents ml	77115	...
1	60		101
2	125		202
3	250		203

**77115 202-203****77115 101**

77135 - 77141 Oil squirt cans



Type
With 130 mm long brass tube including brass nozzle. Drip catcher and attachment eye, oil drip feed by raising the pressure lever, all parts replaceable – easy to clean.

77135 - 77136

Type
Single press pump.

77135

Type
Seamless aluminium container.

77136

Type
Polyethylene container.

77140 - 77141

Type
Double metal pump with rotating piston, also for particularly awkward points for lubrications. Oils in every conceivable position, **even overhead**.

77140

Type
Seamless aluminium container.

77141

Type
Polyethylene container.



Contents ml	77135	...	77136	...	77140	...	77141	...
200		102		102		101		101
300		103		103		102		102

77142 - 77144 Oil squirt cans

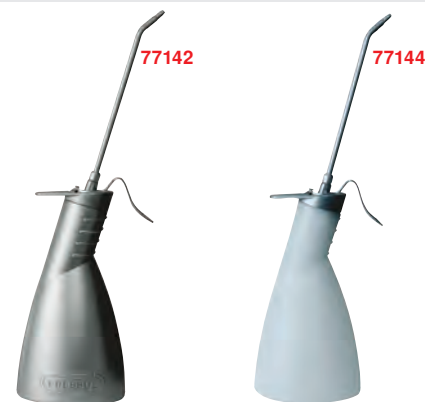
Type
Ergonomically-shaped container, therefore very handy and very stable stand. With long aluminium squirt tube. Thanks to the double-action brass pump with gravity-controlled suction tube, lubrication is possible in any position, **even overhead**, and the container can be completely emptied. Oil drip feed by slightly raising the pressure lever. Sealing cap with drip catcher.

77142

Type
Container made of die-cast zinc, impact-proof and robust.

77144

Type
Container made of plastics (polyethylene), oil-resistant, break-proof.



	Zinc die-cast	...	Polyethylene	...
	77142		77144	
Contents ml	200	...	200	...
	300	...	202	...
	500	...	203	...

Contents ml	Bottom Ø mm	Entire height mm	Spray tube length mm		
200	60	245	135		
300	60/65	300	165		
500	75/80	330	165		

77145 Special oil squirt can

Type
With strong pressure pump, round tin plate container and metal squirt tube, oil flow can also be drip-regulated, surge wall to prevent escape of oil, thus **allowing lubrication in any position**.



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

77180

Hand pump



Type

Double-action hand pump, with suctioning and pressuring hose. Solid metal construction made of light metal, wear resistant and temperature-proof. With safety handle

Use

For use in industry and trade, for refilling containers with fuel oils, mineral, synthetic and biological oils, washing petrol, coolant, anti-freeze, denatured alcohol, kerosene etc.

Pump capacity ml/stroke	Pipe Ø mm	Hose length mm	77180	...
260	40	600		102

77180



77181

Dosing hand pumps



Type

With transparent cylinder made of hard PVC, scale in cl for easy fill-up and removal of liquids of every description. Smooth running, quick, high suction power.

77181 101

Type

Including flex hose 300 mm and straight pipe 130 mm.

77181 102

Type

Including flexible hose 750 mm.

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

77181 101



77181 102



77185 - 77187

Oil and petrol syringes



Type

For suctioning and pressuring, aluminium cylinder pipe, wear-resistance and easy operation thanks to PTFE piston rings.

Note:

Cat.-no. 77186 - 77187 suitable for both syringes

77185 102

Syringe.

Type

Size 2 incl. 3 small connection tubes 90 / 140 and 250 mm in length, Ø 10 mm.

77185 103

Syringe.

Type

Size 3 incl. 1 straight tube 300 mm in length, Ø 12 mm.

77186

Additional tube.

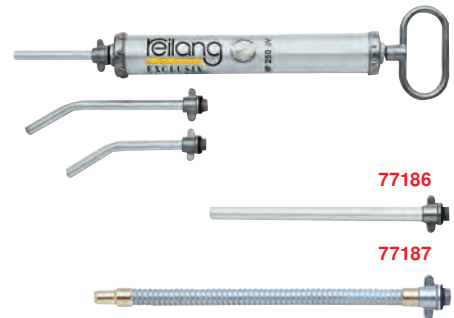
Use

For thick oil.

77187

Flexible metal hose.

77185 102



77186

77187

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



77190

Oil miser

Type

Transparent, impact-resistant, weather-proof. Just enough fluid flows from the main container to the brush holder to wet the bristles of the brush, economical in use and clean. Swivel bracket and 2 brushes included.

Use

Only suitable for lubricants and drilling oil, petrol, paraffin, ether, soap water (not for acids, acetone etc.).



77190

Container contents approx. l	77190	...
0,5		101

77193

Storage containers

Type

Equipped with a brush for applying glue, lacquer, contact adhesive, and various solvents.

Use

Universal implementation in production, shipping, trade and hobby.

Advantages:

- Saves considerable amounts of glue
- No disposal costs for dried adhesives as special waste
- High chemical-resistance
- Long service life through impact-resistant plastic
- Quality-tested floor-housing seal
- Optimised sealing cap with sealing groove prevents evaporation, even of low-viscosity fluids



77193

Contents l	Dimensions mm	77193	...
1,5	215 x 105 x 130		101

77194

Magnetic lubricating pot

Type

Made of unbreakable plastic. With permanent magnet on the bottom.

77194



Holding capacity ml	Height mm	Width mm	Weight g	77194	...
250	80	80	100		101

77300

Multi-purpose tub

Type

Break-proof, with stable carrying handles. Safe pouring thanks to circumferential overflow rim and spout. With raised area for placing dirty parts.

Quality

Polyethylene.

Use

For changing oil or cleaning parts.

77300



Holding capacity l	Height mm	Length mm	Width mm	Colour	77300	...
6	100	360	360	black		101

77303

Measuring cup set

Type

Transparent, scale coloured and raised. Oil and acid-resistant, food safe. With ergonomic handle, stackable, safe pouring

Quality

Polypropylene.

77303



Set	Contents l	Use from to °C	77303	...
3-piece	0,5/1,0/2,0	- 10 + 120		101

77305 - 77306

Liquid measure

Type
With funnel-shaped spout.

77305
Type
Tin plate, can be calibrated.

77306
Type
Tin plate, swivelling carrying handle

Contents	77305	...	77306	...
l				
1			102	
10				102



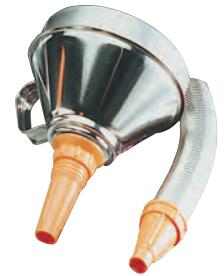
77319 - 77321

Funnel

77319
Type
Tin plate with overflow rim, vent channel in tube, with removable sieve.

77321
Flexible extension tube.

Upper Ø mm	Funnel	...	Extension tube	...
160	77319		77321	
			101	101



77323

Funnel set

Type
Ø 160 mm with removable brass sieve.
Quality
Polyethylene.

Set	Funnel Ø mm	77323	...
6-piece	50/75/100/120/150/160		101



77325

Funnel

Type
Red, with black, lockable lid.
Use
For metal drums. Suitable for common 60 or 200 l oil drums. Funnel for disposal of waste oil or chemicals (polyethylene).

Holding-fitting	Ø mm	Contents l	77325	...
2 inch outer	250	3,2		101



77350

Oil supply cans DIN 6425

Type
Made of tin plate, with hinged lid and spout pipe with chained push-on cap, strong carrying handle.

Contents l	Height mm	77350	...
5	290		102
10	350		103



Workshop Supplies



77370 Fuel cans

Type
With flexible nozzle. Robust and resistant against impact damage. Sealing cap secured against loss with lanyard. Spout nozzle with integrated vent. **Spout nozzle is stored in the canister: Contamination through transport is prevented;** and also it is difficult to lose the spout nozzle. Secure stand due to large footprint. Easy carrying thanks to solid handle. Optimised design, robust thanks to circumferential reinforcements. TÜV-tested, UN/BAM approval

Use
For liquid fuels.
Quality
Material HDPE.

Contents l	H x L x W mm	Spout length mm	Spout Ø mm	Colour	77370	...
5	237 x 331 x 185	195	20	red		101
10	319 x 329 x 195	195	20	red		102
20	410 x 385 x 229	195	20	red		103

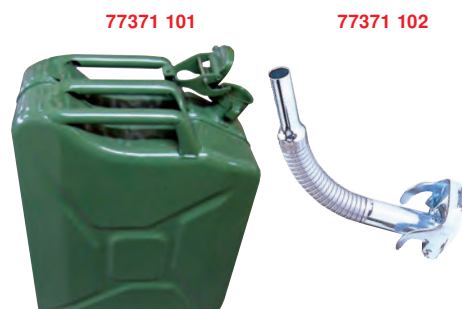


77371 Metal canister MK 20

77371 101
Type
Interior painted, without spout nozzle, can be vented.
Use
For all vehicle models, and for lead-free petrol.

77371 102
Spout
Type
Flexible, galvanised.

Type	Contents l	Colour	Weight approx. kg	77371	...
Canister	20	green	3,6		101
Spout	-	-	-		102



77405 Rinsing basins

Type
With removable perforated insert, the lid closes with a tight seal and prevents evaporation of washing fluid; it locks at opening. The lid closes automatically if there is a fire, smothering the flames. Black sheet metal outside lacquered. Black sheet metal outside lacquered.

Use
For combustible washing agents, especially for washing small parts.

Contents approx. l	Ø mm	Height mm	77405	...
5	300	125		101



77415 Waste oil collector

Type
With compressed-air exhauster, transparent 2 m exhausting hose, safety valve (set to 0,5 bar), and relief valve. Mobile, with 2 fixed wheels and 2 steering wheels, sieve insert.

Use
For waste oil A III (of known source) with a flame point above 55° C. Please do not use in any case, waste oils with danger classification A I, A II, and B.

Container contents l	Dispensing hose m	Collection funnel Ø mm	Contents collection funnel approx. l	Height-adjustable mm	77415	...
70	2	420	18	1150 - 1750	F #	101



Workshop Supplies

77420 - 77421

Small parts cleaning unit



Type

Table-top model with 4 legs, working top and splash guards galvanized.

With foot-operated safety switch and cleaning brush, with electric pump, power cable and plug. Tested in compliance with ZH 1/562 04.82, DIN VDE 0700 T1A6 12.91 and DIN VDE 0700 T236 03.84.

Supplied without drum.

Use

For cleaning machine parts and tools in workshops and factories using commercial cold cleaning agents.

Note:

A regenerative drum pump directly draws off the cleaning agent from the barrel to the cleaning brush. The contaminated cleaner flows directly back into the drum, in this process the contamination particles settle on the bottom. Fresh liquid is always drawn off in the upper section. Model with air-pressure pump and cold cleaning agents available on request.

77421

Spare cleaning brush with hollow handle, Ø 30 mm.

Exterior dimensions H x W x D mm	Working height mm	Capacity l/min.	Spare brush	
			77420	77421
1350 x 800 x 550	950	3-5	F #	101
				101

77421



77420

85590

Safety collecting container



Type

Made of sheet steel, inside tin-coated for flammable, solid materials. Comfortable opening by means of a pedal. Self-closing lid. Punched bottom edge to prevent heat-up/self-ignition. No leakage of collected liquids. High stability against overturning. Container identification in compliance with GefStoffV and BGV A8 pending. Tested safety product.

Use

For safe collection of used cleaning materials.

Contents l	Ø x height mm	Finish exterior	85590	...
20	290 x 397	powder-coated, red		101

85590



85593

Economical moisturising devices



Type

Made of sheet steel, inside tin-coated. Spring-bearing mounted saturation plate with flame stop. Economical use of cleaning fluid, unused fluid flows back into container. Very low evaporation. Good medium stability, even when working with contaminated materials. High stability against overturning. Container identification in compliance with GefStoffV and BGV A8 pending. Tested safety product.

Use

For economical moistening of a cloth, in cases in which only low amounts of solvents are required.

Contents l	Ø x height mm	Saturation plate Ø mm	Finish exterior	85593	...
0,5	120 x 135	75	powder-coated, red		101
2,0	180 x 190	135	powder-coated, red		104

85593



77500

High-pressure push-type grease guns

Type

Made of steel with universal nose piece.

Use

For grease and oil.

Contents ml	Pressure capacity approx. bar	77500	...
60	200		101
150	200		102
340	200		103

77500





77540 - 77543

Grease guns

Use

For grease, cartridges and grease filler.
Connecting thread M 10 x 1.

77540 101

One-hand grease gun PEP500/D

Type

- With nozzle pipe 103/R with 4-jaw professional nose piece
- Made of precision steel
- Plastic display bag
- Filling nipple
- Quickly filled with Füllmeister® or with 400 g grease cartridges (DIN 1284)
- Contents 500 cm³ / 400 g
- Connection thread G 1/8 inch
- Weight 1,4 kg

Use

For use on lubricating points that are difficult to access.

77540 302

Professional lever grease gun X-TRA 701/M DIN 1283

- Steel, robust durable
- Display box
- Filling nipple
- Safety grip
- Quickly filled with Füllmeister® or with 400 g grease cartridges (DIN 1284)
- Contents 500 ccm / 400 g
- Connection thread M 10 x 1
- Weight 1,3 kg

77540 203

Hand-operated lever grease gun

Type

- With die-cast zinc head Z 410,
- Burst-pressure test at approx. 1200 bar,
- Fill volume 500 cm³,
- Delivery volume / stroke approx 1,2 cm³,
- Delivery pressure to 400 bar,
- No misleading signs of lubrication thanks to precision fit pump piston and cylinder,
- incl. of Armoured hose 11 x 300 mm,
- Nozzle pipe bent 150 mm and
- 2 x nose piece with 4 lathed jaws.

77540 301

Hydraulic grease gun DL Plus

Type

- Compression ratio 1:50,
- Recommended working pressure 6 bar
- Flow capacity per stroke 0,8cm³
- Nominal contents 500cm³
- Complete with armoured hose
- 4-jaw nose piece
- Attachment eye and
- Filling nipple

77543 101-104

- Accessories for cat.-no 77540.

77543 101

Nozzle pipe

- Belt with hydraulic gripper coupling.

77543 102

Armoured hose

- 11 mm Ø
- 300 mm long,
- Polyamide with hydraulic nose piece

77543 103

Set of nozzles

- Made of steel
- High-gloss nickel-plated
- Consisting of: hollow nozzle, pointed nozzle and hydraulic nozzle piece.

77543 104

Hydraulic nozzle piece

- 4 jaws with wrench surface.



Workshop Supplies

Grease guns	Accessories	
77540	...	77543 ...
	101	101
	302	102
	203	103
	301	104

77544

Lubricating nipples assortment

Type

Professional taper lubricating nipples in compliance with DIN 71412.

Contents	77544	...
120-piece		101

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°) R 1/8 inch
5	angled (45°) M 6 x 1
10	angled (45°) M 8 x 1
5	angled (45°) M 10 x 1
5	angled (45°) R 1/8 inch
5	angled (90°) M 6 x 1
10	angled (90°) M 8 x 1
5	angled (90°) M 10 x 1
5	angled (90°) R 1/8 inch



77545

Battery-powered grease gun

Battery powered grease gun AFP-E 500

Type

- Armoured hose with 4-jaw hydraulic nose piece
- 2 x 18 V rech. battery 1300 mAh
- Maximum pressure, limited through safety valve
- Carrying strap



77545

Type	Fast charger min	Operating pressure approx. bar	Max. pressure bar	Delivery rate approx. ccm/min	Contents ccm/g	Weight kg	Type	77545	...
AFP-E 500	60	400	400	100	500/400	8	in plastic case		101

90317

Battery-powered grease gun



Type

- Up to 7 cartridges per battery charge
- Balanced design with a length of just 355 mm
- REDLINK™ electronic overload protection for long service life of rech. battery, motor, and gear unit
- Vent valve for fast work progress
- Capacity when filling from containers 454 g and for cartridge 411 g
- Integrated hose holder and hook-in device for shoulder strap
- Handle with soft-grip support
- Rech. battery change indicator

Use

Ideal for lubricating vehicles and machines in mobile use.

Scope of supply:

- Transport pouch
- 1 x 12 V/4,0 Ah Red Li-Ion rech. battery
- Fast-charger C12 C



90317

Volt/Ah	Operating pressure bar	Flow rate g/min	Hose pressure bar	Length hose mm	Weight with rech. batt. kg	90317	...
12,0/4,0	562	74	690	914	3,3		101

77549 - 77550

Professional push-type grease guns and professional one-hand grease guns

77549 101-103

Professional push-type grease guns

Type

Can be filled quickly and cleanly with screw-in cartridge PAT 100 (1 pc. in scope of supply) with approx. 100 g lithium-saponified grease, consistency 2.

77550 103

Refill set

Type

4 grease cartridges Optimol PD2, each 100 g.

Use

For filling the professional one-hand grease gun PEP200 and the professional push-type grease gun K100.

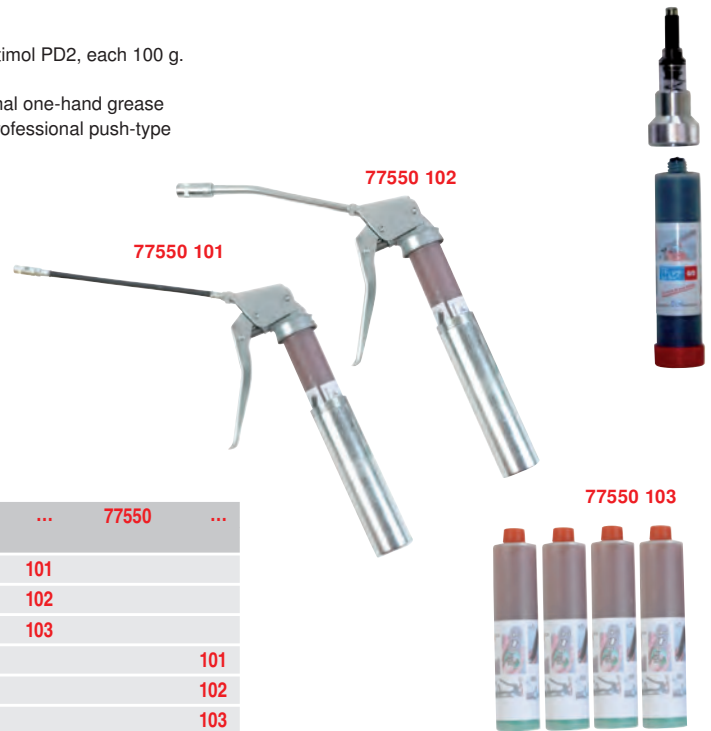
77549 102

77550 101-102

Professional one-hand grease guns

Type

Display box. Can be filled quickly and cleanly with screw-in cartridge PAT 100 (2 pc. in scope of supply) filled with approx. 100 g lithium-saponified grease, consistency 2. Connecting thread M 10 x 1. With 4-jaw professional nose piece.



Type	Type with	77549	...	77550	...
Push-type press	K100/2	Pointed nose piece		101	
Push-type press	K100/3	Universal nose piece	#	102	
Push-type press	K100/Na	Needle-nose nose piece	#	103	
One-hand grease gun	PEP200 D	Nozzle pipe 103/M			101
One-hand grease gun	PEP200 G	Safety armoured rubber hose 110/M			102
Refill set	Optimol PD2	-			103

77551

Multi-purpose grease in cartridge

Type

For grease guns cat.-no. 77540 and other off-the-shelf grease guns.

Contents approx. g	77551	...
400		101



77551

Lubricating compressor | Pumps

77555

Grease filler

Type

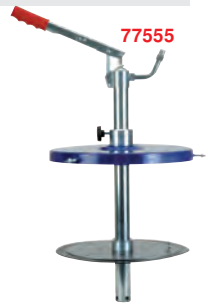
Increased suction capacity due to longer stroke and enlarged intake and valve openings. Stable and wear-resistant due to reinforced steel lever. Environmentally-friendly, air-free filling. Bucket emptying through special grease following cover.

Scope of supply:

Grease following cover, dust-protection lid, fill pipe with muff.

Use

For filling grease guns. Suitable for bio lubricating greases, long-life greases with bonding additives and for greases to consistency class 2 (liquefied greases).



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

77605

Compressed air lubricating device

PM 15 mobile

Type

- With safety lubricating hose 4 m
- Incl. Maintenance unit for low-wear operation and drum fitting with 2-inch thread
- Pre-feed system for safe pumping of long-life greases
- High delivery capacity through 1:55, compression ratio, through suction connection, safety lubrication hoses with large inner diameter
- Grease follower cover for buckets with inner diameter Ø 260 - 290 mm

- Steel dust protection lid for buckets with outer diameter Ø 265 - 310 mm
- High-pressure lubricating gun with ball bearing pro-Z joint, special ease of motion under pressure
- Compressed air connection / grease outlet G 1/4 inch inner thread
- Trolley

Use

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



Air pressure min./max. bar	Lubricating pressure max. bar	Burst pressure bar	Delivery volume approx. ccm/min	77605	...
3/10	400	1.600	600		101

*At free discharge and 7 bar inlet pressure.

77610 - 77616

High-pressure lubricating compressor and accessories

77610

High-pressure lubricator compressor

Type

- With 4 m high-pressure lubricating hose (burst pressure 1200 bar) and
- Lubricating gun with rotating joint
- Mobile
- Contents 6,5 kg
- Compression ratio 1:50
- Air pressure: min. 3 bar, max. 8 bar
- Integrated pressure reduction valve,
- Lubricating pressure max. 400 bar
- Delivery rate 4 cm³/double-stroke
- max. delivery capacity, 400 cm³/min. with free discharge
- Suitable for oils and greases to consistency class 3
- Weight approx. 19 kg.

77614

Safety rubber armoured hose

- 300 mm long,
- Safety-tested in accordance with DIN 1283
- Bursting pressure 1600 bar.

77615

Push-on coupling

- Diameter 16 mm, for flat lubricating nipples

77616

Safety pressure hose

- Length 4 m

Note:

Other hose lengths 7 and 10 m available on request.



Size H x W x L mm	Lubricating compressor	Armoured hose	Coupling	Hose
710 x 290 x 480	77610	77614	77615	77616
	F # 201	# 201	# 201	# 201

77620

Profi quick change set SWS in plastic case

Type

In stable plastic case with oil-resistant insert.

Set contents	
1	nozzle pipe 103/M, straight, with 4-jaw pro nose piece
2	4-jaw pro nose pieces 120/M
1	Quick-change reinforced rubber hose 2200
1	Quick-change nozzle pipe with slide coupling 2070/M 1
1	Quick-change nozzle pipe with combination nose piece
1	Adapter R 1/8 inch inner, M 10 x 1 outer

Type with	Weight approx. kg	77620	...
In plastic case	0,80	#	102



77705

Multi-purpose pumps

Type

- Handy pumps for diesel, heating oil, hydraulic fluid and engine oil
- For 200 l drums
- 1 m plastic hose with discharge nozzle, suction pipe

Pump	Delivery capacity l/stroke	77705	...
MZE-02	0,2		101
MZE-04	0,4		102



77705

77720

Drum and container pumps



Note

Other insertion depths and versions available on request.

77720 101

Pump set for low delivery rates

Type

- IP 24
- With 2-stage switch for precision filling.

Use

For filling, transferring and metering of acids and alkalines such as battery acid, ammonia water, glycol, caustic soda, and soap solution.

77720 202

Pump set – for acids

Type

- Drum fitting and FLUX-clip for safe fixation of the nozzle on the pump
- IP 24
- With RPM adjustment and under-voltage triggering

Use

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

77720 103

Pump set – for petroleum products

Type

- Drum fitting and FLUX-clip for safe fixation of the nozzle on the pump
- IP 24
- With under-voltage triggering

Use

For pumping petroleum products such as Diesel, fuel oil, hydraulic, machine and engine oil.

77720 104

Pump set - for highly combustible liquids

Type

- Foot-piece Ø 43 mm
- Drum fitting and FLUX-clip for safe fixation of the nozzle on the pump
- Motor explosion-proof in compliance with II 2 G EEx de IIC T6 in accordance with ATEX Directive 94/9/EC
- Category 2 with low voltage release

Use

For pumping highly combustible liquids such as acetone, petrol, butanol, ethanol, methanol, toluene, xylene etc.
For safely pumping low-viscosity, neutral, aggressive and highly combustible liquids. Only pumps made of stainless steel used in conjunction with an ex-protected collector motor or pneumatic motor may be used for pumping flammable liquids.

77720 101



77720 202



77720 103



77720 104



Technical data:		Pump F 314 PP	Pump F 430 PP	Pump F 430 AL	Pump F 424 S
Quality	of	Polypropylene	Polypropylene	Aluminium	Stainless steel 1.4571
Outer Ø	mm	25	40	41	41
Pressure port		G 1 A	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	Messing
Seal		FKM	FKM	NBR	PTFE
Collector motor	W / V / Hz	230/230/50	500/230/50	800/230/50	460/230/50
Connection cable	m	5, 2-pole plug	5, 2-pole plug	5, 2-pole plug	5, safety plug (not ex protected)

Pump Type	Collector motor Type	Delivery rate max. l/min.	Delivery rate max. l/min.*	Delivery head 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

*With hose and nozzle

Workshop Supplies



Info

Lubrication systems cat.-no. 77810 - 77822

Clever lubrication.

perma lubricators are self-contained units, which work without external force, for automatic and place independent single point lubrication of roller- and sliding bearings, chains, open gears and sliding guideways.

Lubricants

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

Technical data

Code	Lubricant	NLG class	Thickener	Basis	Temperature range	Use	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	industry chains	CLPE320

77810 - 77822 Lubrication system Perma CLASSIC

77810 perma CLASSIC

Type

Lubrication system driven by electrochemical processes, **metal housing with 120 cm³ fill volume** with empty status indicator.

Use

Dependent on the application, choose an activating screw and tighten it. A gas generating pellet will drop into a liquid electrolyte to start a chemical reaction. The lubricant is continuously injected into the lubrication point over the desired amount of time (1, 3, 6 or 12 months), ensuring a even dosage. Maximum pressure is 4 bar at temperatures between 0°C and +40°C.

Note:

The activating screw is indispensable.

77822

Activating screws

Type

Black sealing ring. Dosage time at +20°C.

Use

For lubrication systems perma CLASSIC and FUTURA.

77810



Lubricant type	Dosing time months	Screw colour	77810	...	77822	...
SF 01	-	-		101		
SF 04	-	-		102		
SO 14	-	-		103		
-	1	yellow				101
-	3	green				102
-	6	red				103
-	12	grey				104

77822 102



77820 - 77822 Lubrication systems Perma FUTURA

77820 perma FUTURA

Type

Lubrication system driven by electrochemical processes, **transparent plastic housing with 120 cm³ fill volume.**

Use

Dependent on the application, choose an activating screw and tighten it. A gas generating pellet will drop into a liquid electrolyte to start a chemical reaction. The lubricant is continuously injected into the lubrication point over the desired amount of time (1, 3, 6 or 12 months), ensuring a even dosage. Maximum pressure is 4 bar at temperatures between 0°C and +40°C.

Note:

The activating screw is indispensable.

77822

Activating screws

Type

Black sealing ring. Dosage time at +20°C.

Use

For lubrication systems FUTURA and CLASSIC.

77820



Lubricant type	Dosing time months	Screw colour	77820	...	77822	...
SF 01	-	-		101		
SF 04	-	-	#	102		
-	1	yellow				101
-	3	green				102
-	6	red				103
-	12	grey				104

77822 101

