

77099

Sprayer

Type

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

Application

Especially for spraying low-viscosity substances.



77099

Filling capacity	Weight	77099	...
l	g		
1	90		101

77100

Sprayer

Type

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

Application

For use in industry and trade.



77100

Filling capacity	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. Operating pressure 3 bar. Flow volume 0,4-1,2 l/min.

Application

For use in industry and trade.



77101

Filling capacity	Weight	77101	...
l	g		
2,0	500		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. Container 0,7 l made of plastics. Air connection with plug for quick action coupling.

Application

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



77102

Max. operating pressure bar	recommended working pressure bar	nozzle Ø mm	spraying range 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.

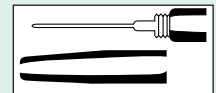
Application

For drip feed lubricating, e.g. on fine precision instruments, hinges etc.



77105

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



77115

Plastic lubricators

Type

Oil-, petrol- and acid/resistant.

For trade and industry.

Size 1: flat container with fixed squirt tube.

Sizes 2 and 3: round container with adjustable brass squirt tube, sealed by turn-lock fastener at tube tip. Application

Size	Contents ml	Length of squirt tube mm	Container height mm	77115	...
1	60	50	65		101
2	125	36 - 115	160		102
3	250	36 - 145	185		103



77115 102-103

77115 101

77130

High-performance lubricators



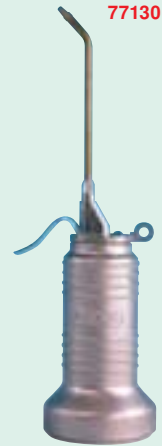
Type

With seamless light metal container. Double metal pump, drip catcher, hang-up hole. Oil drip feed by raising the pressure lever. Rugged design and safe stand. All parts bolted and replaceable.

Application

For use in automotive industry, machine construction, engine production, maintenance, repair etc. Non-tiring, ergonomical handling, independent of content. Lubricating in any position, **even upside down**.

77130 102



Contents		77130	...
ml			
300			102

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 cleaning.

77140 - 77141

Type

Double metal pump with rotating piston, also for particularly awkward points for lubrications. Lubricating in any position, **even upside down**.

77135 - 77136

Type

Single press pump.

77140

Type

Seamless aluminium container.

77135

Type

Seamless aluminium container.

77141

Type

Polyethylene container.

77136

Type

Polyethylene container.



Contents		77135	...	77136	...	77140	...	77141	...
ml									
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 emptied to the full. 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.

77142

77144



Die-cast zinc

Polyethylene

Contents	Bottom	Total height	Squirt tube length		77142	...	77144	...
ml	Ø mm	mm	mm					
200	60	245	135			201		201
300	60/65	300	165			202		202
500	75/80	330	165			203		203

77145

Special oil squirt can

PRESSOL

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.



77145

Contents	squirt tube length	container height	77145	...
ml	mm	mm		
250	170	130		102

77180

Hand pump

leilang

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.

Application

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. Capacity approx. 4 l/min.



77180

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

77181

Dosing hand pumps

leilang

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 102

Type

Incl. of FlexSchlauch 750 mm.

77181 101

77181 101

Type

Incl. of FlexSchlauch, 300 mm, and flat pipe, 130 mm.



77181 102

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

77185 - 77187

Oil and petrol syringes

leilang

Type

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

77185 103

Syringe.

Type

Size 3 inclusive of 1 straight tube 300 mm long, Ø 12 mm.

77185 102

Note:

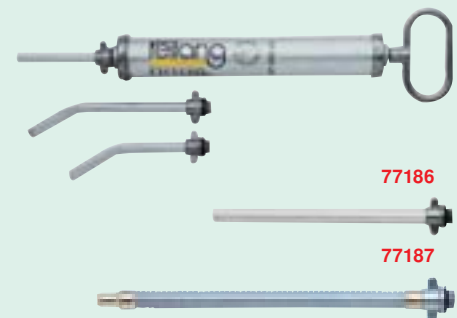
Cat.-no. 77186 - 77187 suitable for both syringes.

77186

Additional tube.

Application

For thick oil.



77186

77187

77185 102

Syringe.

Type

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

77187

Flexible metal hose.

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

• Containers • Funnels • Supply cans • Fuel cans

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.

Application

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

77190



Contents approx. l	77190	...
0,5		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. Colour: black.

Application

For changing oil or cleaning parts.

Quality

Polyethylene.

77300



Capacity l	Height mm	Length mm	Width mm	77300	...
6	100	360	360		101

77303

Measuring cup set



Type

3-part, 0,5 l, 1,0 l, 2,0 l. Transparent, scale coloured and raised. Oil and acid-resistant, food safe. With ergonomic handle, stackable, safe pouring. Application range -10°C - +120°C.

Quality

Polypropylene.

77303



Set	77303	...
3-part		101

77305 - 77306

Measuring beakers

Type

With funnel-shaped spout.

77306

Type

Tin plate, swivelling carrying handle.

77306

77305

Type

Tin plate, can be calibrated.

77305



Contents l	77305	...	77306	...
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.

77319 - 77321



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

77323

Set of funnels

PRESSOL

Quality
Polyethylene.

Type

6-part, consists of 6 funnels (Ø 50, 75, 100, 120, 150, 160 mm), Ø 160 mm with removable brass sieve.



77323

Set	77323	...
6-part		101

77325

Funnel

PRESSOL

Type

Red, with black, lockable lid. **Contents 3,2 l.**

Application

For metal barrels. Suitable for common 60 or 200 l oil barrels. Funnel for disposal of waste oil or chemicals (polyethylene).



77325

Barrel lock	Ø mm	77325	...
2 inch outside	250		101

77350

Oil supply cans DIN 6425

PRESSOL

Type

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



77350

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

77360

Safety containers

Type

Sheet steel, inside tin-coated, outside red powder-coated, seal made of Accopac. Self-locking opening, automatic overpressure compensation, flame limiter

in container neck, great stability. Container identification in compliance with GefStoffV and BGV A8 pending.



77360

Contents	77360	...
l		
3,8		204
11,4		205

77370

Fuel cans

PRESSOL

Type

With flexible nozzle. Robust and resistant against impact damage. Sealing cap secured against loss with lanyard. Nozzle (length 195 mm, Ø 20 mm) with integrated vent. **The nozzle is kept within the can: therefore the nozzle stays clean** cannot be lost. Secure stand due to large footprint. Easy carrying thanks to solid handle. Optimised design, robust

thanks to circumferential reinforcements. TÜV-tested, approved by UN/BAM. Colour red.

Application

For liquid fuel.

Quality

Material HDPE.



77370 101

77370 102

77370 103

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

77371 - 77373 Petrol containers

77371
Type
 Made of sheet steel DIN 7274, with original jerrican caps, built-in vent pipe, inside petrol-resistant, also for mixed fuel M 15, outside olive-green, stove enamel coating, GGVS.

77373
Spout nozzle
Type
 Flexible.



Contents	height	width	Depth	Weight	Container		Spout nozzle						
					l	mm	mm	mm	approx. kg	77371	...	77373	...
20	468	345	165	4,2									
-	-	-	-	-									101

77405 Rinsing basins

Type
 With removable perforated insert. The lid locks in open position. It seals the opening tightly and therefore prevents any evaporation of the liquid. The lid closes automatically if there is a fire, smothering the flames. Black sheet metal outside lacquered.

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



Contents	Ø	height	
approx. l	mm	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 relieve valve. Mobile, with 2 steady wheels and 2 steering wheels, contents 70 l, with drip funnel (Ø 420 mm, contents approx. 18 l), adjustable in height from 1150 up to 1750 mm, sieve insert.

Application
 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.



Contents	
l	77415 ...
70	101



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 barrel.

Note:
 A regenerative barrel pump directly draws off the cleaning agent from the barrel to the cleaning brush. The contaminated cleaning liquid flows directly back into the barrel, the dirt particles are deposited 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.

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

77421
Spare cleaning brush with hollow handle, Ø 30 mm.



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

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. Approved safety device.

Finish:

Outside powder-coated, red.

Application

For safe collection of used cleaning materials.



85590

Contents	Ø x height	85590	...
l	mm		
20	290 x 397		101

85593

Economical moisturing 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. Approved safety device.

Finish:

Outside powder-coated, red.

Application

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



85593

Contents	Ø x height	Moisturing plate	85593	...
l	mm	Ø mm		
0,5	120 x 135	75		101
1	120 x 200	135		102
2	180 x 190	135		104

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- perfect feel
- best resilience
- exact adjustment

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• Presses • Multi-purpose grease • Pumps

77500 High-pressure push-type grease guns

Type
Made of steel, with pointed or hollow nozzle, pressure capacity approx. 200 bar.

Application
For grease and oil. 77500

Contents	77500	...
ml		
80		201
150		202
300		203



77540 - 77543 Grease guns

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

77540 301
PRESSOL
Hydraulic grease gun DL Plus
Type
Compression ratio 1:50, recommended working pressure 6bar, flow capacity per stroke 0,8cm³, nominal contents 500cm³, armoured hose, 4-jaw nozzle, attachment eye and filling nipple included.

77540 101
Professional grease gun
Type
Made of precision steel, with filling nipple, nozzle pipe and 4-jaw professional nozzle piece, nominal contents 500 cm³ working pressure 160 bar, max. pressure 400 bar, flow capacity 0,75cm³ per stroke.
Application
For grease projects in hard-to-reach areas.

77543 101-104
Accessories for cat.-no. 77540.

77540 202
PRESSOL
Hand lever grease gun DIN 1283
Type
With zinc die cast head Z 410, test pressure approx. 1200 bar. Moulded collars ensure firm fit. Flow capacity approx. 1,2 cm³ at 400 bar counter pressure. Blue lacquered.

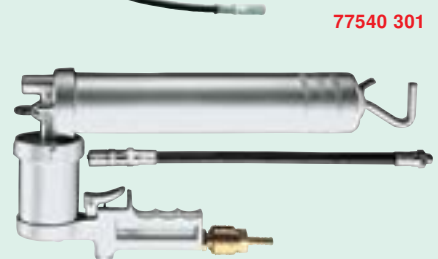
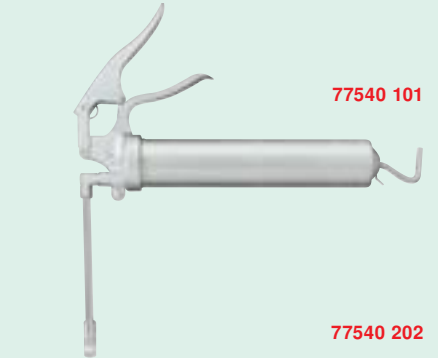
77543 101
Nozzle pipe
Offset, with hydraulic nozzle piece with wrench surface.

77540 203
PRESSOL
Hand-operated lever grease gun
Type
With zinc die cast head Z 410, test pressure approx. 1200 bar. Volume 500 cm³, flow volume/stroke approx. 1,2 cm³, delivery pressure up to 400 bar. Moulded collars ensure firm fit. Incl. of armoured hose 11 x 300 mm, offset nozzle pipe 150 mm and 2 x nosepieces with 4 turned jaws.

77543 102
Armoured hose
11 mm Ø, 300 mm long, made of polyamide with hydraulic nozzle piece.

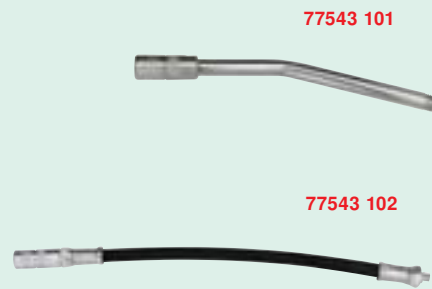
77543 103
Set of nozzles
Made of steel, glossy nickel-plated, consists of: hollow nozzle, pointed nozzle, and hydraulic nosepiece.

77543 104
Hydraulic nozzle piece
4 jaws with wrench surface.



Grease guns	Accessories	
	77540	77543

	101	101
	202	102
	203	103
	301	104



77544 Lubricating nipples assortment

Type
120-part.
Professional taper lubricating nipples in compliance with DIN 71412.
H1 = straight (180°),
H2 = offset (45°),
H3 = angled (90°).

Set contents:
5 x H2 M6 x 1
10 x H2 M8 x 1
5 x H2 M10 x 1
5 x H2 R 1/8 inch
5 x H3 M6 x 1
10 x H3 M8 x 1
5 x H3 M10 x 1
5 x H3 R 1/8 inch

	77544	...
		101



77550

Professional-grade one-hand-action grease gun

Application

For hard-to-reach places.

77550

Type

Quickly and cleanly fillable with screw-in cartridges (2 cartridges included), Connecting thread M 10 x 1. With 4-jaw professional nosepiece.

Type	77550	...
PEP200/D	101	
PEP200/H	102	
Refill set	103	

77550 101

Type PEP200/D

Type

With nozzle pipe 103/M.

77550 102

Type PEP/200H

Type

With safety high-pressure hose 910/M.

77550 103

Refill set

Type

Consists of 4 screw-in cartridges 100 g multi-purpose grease NLGI 1.

77550 101

77550 102

77550 103



77551

Multi-purpose grease in cartridge

Type

For grease guns cat.-no. 77540 and other standard greasing devices.

Contents approx. g	77551	...
400	101	

77551



77555

Grease filler

PRESSOL

Type

For 15 kg - buckets

Star mounting fixture on bucket with adjustable arms, push-up lid, this means that the level of grease in the bucket can be checked at any time. Filler coupling mounted at an angle, with filling nipple M10 x 1.

Application

For filling up hand-operated grease guns.

Note:

Grease fillers for different bucket sizes available on request.

Bucket not included.

	77555	...
	102	

77555



77600

High-pressure foot-operated lubricator

Type

With 3,5 m safety lubricant hose (burst pressure 1200 bar) and high-pressure handle pistol with rotating joint. Mobile, contents 6,5 kg. Max. atmospheric gauge pressure 400 bar, flow capacity 2 cm³/stroke. The built-in air pump applies an air cushion to the lubricant. Suitable for oils and grease

up to consistency class 3.

Size H x W x L mm	Weight approx. kg	77600	...
680 x 200 x 460	16	201	

77600



77605

High-performance grease pump

PRESSOL

Type

With pneumatic pump motor.

High-pressure lubricant pistol with 360° rotating joint, offset nozzle pipe 150 mm long, 4 jaws, hydraulic nozzle with wrench socket, 2 m safety hose (1/4 inch) and 1 follow-on piston for 15 kg drum, two-wheeled chassis included.

Buckets not included.

	77605	...
	102	

77605



• Lubricating compressor • Pumps

77610 - 77616

High-pressure lubricating compressor and accessories



77610

High-pressure lubricating compressors

Type

With 4 m high-pressure lubricant hose (burst pressure 1200 bar) and lubricator pistol with rotating joint. Mobile, contents 6,5 kg. Compression ratio 1:50, air pressure: min. 3 bar, max. 8 bar, built-in pressure reduction valve. Lubricant pressure max. 400 bar. Flow capacity 4 cm³/double stroke, max. flow capacity, 400 cm³/min. at free output. Suitable for oil and fat up to consistency class 3. Weight approx. 19 kg.

77612

Nozzle pipe

90° offset, with 4-jaw hydraulic nozzle.

77614

Safety rubber armoured hose

300 mm long, safety tested in compliance with DIN 1283, burst pressure 1600 bar.

77615

Push-on coupling

Diameter 16 mm, for flat-head nipple.

77616

Safety pressure hose

Length 4 m.

Note:

Other hose lengths 7 and 10 m available on request.



77610

77614

77615

77616

	Lubricating compressor		Nozzle pipe		Armoured hose		Coupling		Hose	
Size H x W x L mm	77610	...	77612	...	77614	...	77615	...	77616	...
710 x 290 x 480	201									
-			201		201		201		201	

77620

Accessory set for high-pressure lubricating

PRESSOL

Type

Complete in sheet steel case with moulded inserts.

Accessory set consists of:

2 hydraulic nozzles,
4 jaws hardened,
1 hollow nozzle,
1 pointed nozzle,
1 push-on coupling 16 mm,

3 nozzle pipe, 150 mm, offset,
1 armoured hose, 300 mm,
1 nozzle pipe, 150 mm, flat,
1 angle 90° (fits hydraulic nozzle H 4 jaws),
1 extension quick action coupling, for all hydraulic nosepieces,
1 thread joint G 1/8 inch (R 1/8 inch) x M 10 x 1 internal thread,
1 set of lubricating nipples, 3 ea. H 1: M 6 x 1, M 8 x 1, M 10 x 1, G 1/8 inch / R 1/8 inch. H 2: M 6 x 1 und M 8 x 1.
All connection threads M 10 x 1.



77620

77620 ...

101

77705

Lever cylinder pumps (drum pumps)

Type

Automatic flow valve and non-return valve, hand-operated lever can be locked to prevent unauthorised use, 2 threads (M64 x 4 mm and G2 inch) fit all drum types, PVC hose 100 cm long, cold-resistant up to approx. -35°C.

Application

For pumping all types of mineral and fuel oils as well as carburettor fuel, but not suitable for water and chemicals.

Note:

Electric drum and container pumps available on request.

77705 201

Type

Plastic suction pipe, 120 cm insertion depth, plastic outlet bend.

77705 301

Type

With galvanised steel suction pipe, 84 cm insertion depth for upright 200 l drums steel outlet bend with PVC outlet hose 100 cm long, reinforced bend protection spring.

Flow capacity approx. l/min.	77705	...
12	201	
35	301	



77705 301

77710

Diesel pumps PREMAxx

PRESSOL

Type

With PRESSOL protection in compliance with WHG (water protection act), permanently in action.

Thermal protective switch with auto reset. Illuminated on/off-switch. 230 V. Incl. of dispensing hose 4 m and standard tapping valve, extraction hose 1,6 m

with base filter and barrel thread G 2 inch outside and M 64 x 4 outside.

Application

For diesel and fuel oils (danger classification A III). Suitable for 200 - 1000 l containers.

Note:

12 V and 24 V versions available on request.

Flow capacity l/min.	77710	...
52	101	



77710



Application

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.

Note:

Further mounting depths and types available on request.

77720 101

Pump set - for low flow capacities

Type

Pump F 314 PP made of polypropylene. Outside Ø 25 mm. PVC hose DN 13, 1,5 m long with nozzle PP, seal FKM. Collector motor 230 Watt, 230 Volt/ 50 Hz, IP 24, with 2-level switch for precise pumping. 5 m connecting cable with 2-pole plug.

Application

For pumping 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

Pump F 430 PP made of polypropylene. Outside Ø 40 mm, pressure socket G 1 1/4 A. PVC hose DN 19, 2 m long with nozzle PP, seal FKM, barrel thread and FLUX-Clip for a safe attachment of the nozzle to the pump. Collector motor FEM 4070, 500 Watt, 230 Volt, 50 Hz, IP 24, with rotational speed control and low voltage activator. 5 m connecting cable with 2-pole plug.

Application

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

Pump F 430 AL made of aluminium. Outside Ø 41 mm, pressure socket G 1 1/4 A. Mineral oil hose DN 25. 2 m long with nozzle AL, seal NBR. Barrel thread and FLUX-Clip for a safe attachment of the nozzle to the pump. Collector motor F 457, 800 Watt, 230 Volt/ 50 Hz, IP 24, with low voltage activator. Connecting cable 5 m long with 2-pole plug.

Application

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

77720 104

Pump set - for highly combustible liquids

Type

Pump F 424 S made of stainless steel 1.4571. Outside Ø 41 mm, foot piece Ø 43 mm. Pressure socket G 1 1/4 A. Multi-purpose hose DN 21, 2 m long with nozzle brass, seal PTFE, barrel thread and FLUX-Clip for a safe attachment of the nozzle to the pump. Collector motor F 460 Ex, 460 Watt, 230 Volt/ 50 Hz, explosion-proof in compliance with II 2 G EEx de IIC T6 in compliance with ATEX recommendation 94/9/EG, categorie 2 with low voltage activator. Connecting cable 5 m long with earthed plug (not explosion-proof).

Application

For pumping highly combustible liquids such as acetone, petrol, butanol, ethanol, methanol, toluene, xylene etc.

77720 101



77720 202



77720 103



77720 104



Drive Type	Pump Type	Flow capacity max. l/min.	Flow capacity max. l/min.*	Delivery height max. m	Viscosity max. mPas	Temperature max. °C	Immersion mm	Weight kg	77720 ...
F 314	F 314 PP	40	15	5,2	250	45	700	2,4	101
FEM 4070	F 430 PP	165	40	9,5	600	50	1000	5,1	202 NEW
F 457	F 430 AL	220	80	12	800	80	1000	7,8	103
F 460 Ex	F 424 S	200	50	9,5	600	100	1000	10,9	104

* with hose and nozzle

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- high-strength materials
- perfect concentricity accuracy
- large clamping range
- high clamping force

This is but one example of ATORN's high-quality clamping tools.

ATORN[®]



► 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 Multi-purpose lubricant for operating temperatures of -25°C - +130°C.

SF 04 High-temperature lubricant for high operating temperatures of -20°C up to +160°C.

SO 14 High-performance oil for chains at operating temperatures of -20°C up to +250°C.

Technical specifications

Code	Lubricant	NLGI-class	Thickener	Base	Temperature range	Application	DIN
SF 01	Multi-purpose lubricant	2	Li/Ca	mineral base	-25°C bis +130°C	multi-purpose use	KP2K-25
SF 04	High-temperature lubricant	0/1	PHS	mineral base	-20°C bis +160°C	high operating temperatures	K1S-20
SO 14	High-performance oil	-	-	synthetic base	-20°C bis +250°C	chains	CLPE320

77810 - 77812

Lubrication systems perma Classic

77810

perma Classic

Type

Lubrication system driven by electrochemical process, **metal housing with 120 cm³ capacity** and content indicator.

Application

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.

77812

Activating screws.

Type

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

Application

For lubrication system perma Classic.

77810 101



77812 102



Lubricant type	dosing time Months	colour of screw	77810	...	77812	...
SF 01	-	-	101			
SF 04	-	-	102			
SO 14	-	-	103			
-	1	yellow			101	
-	3	green			102	
-	6	red			103	
-	12	grey			104	

77820 - 77822

Lubrication systems perma Futura

77820

perma Futura

Type

Lubrication system driven by electrochemical processes, **transparent plastic housing with 100 cm³ capacity**.

Application

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

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

Application

For lubrication system perma Futura.

77820 101



77822 101



Lubricant type	dosing time Months	colour of screw	77820	...	77822	...
SF 01	-	-	101			
SF 04	-	-	102			
-	1	yellow			101	
-	3	green			102	
-	6	red			103	
-	12	grey			104	