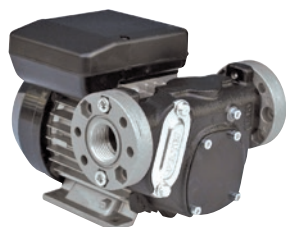


# Refueling Systems

for diesel, gasoline, oil and AdBlue



**Easy and comfortable refueling!**



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**QUALITY  
SINCE 1946**

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## ZUWA-Zumpe GmbH

The family run enterprise ZUWA-Zumpe GmbH has been manufacturing high quality pumps and innovative pump systems for 70 years. The ample experience in designing and producing high end products enables us to offer a wide range of different devices.

The entire product range consisting of pumps, fuelling stations, plant protection systems as well as charging and flushing stations is in high demand all over the world. ZUWA is working in accordance with the ISO 9001:2008 quality management system, regularly controlled by TÜV SÜD. Process safety and constant quality is guaranteed.

The close contact with our customers provides us with proposals and impulses to improve and further develop our products. In house production and shop floor enable us to meet customer specific requirements, manufacture custom made products and complete repair jobs. Competent contact persons and lean management make for quick and reliable service.

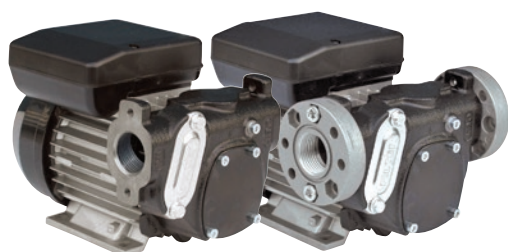
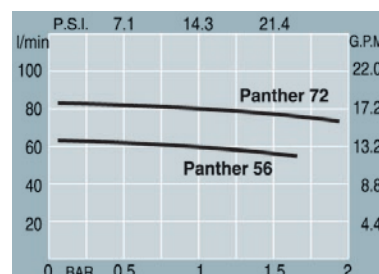
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All data, descriptions, photos, images and dimensions of the entire brochure are non binding and shall be used for visualisation only. We reserve the right for amendments and can not be held liable for printing errors.

ZUWA diesel fuel pumps – rugged, durable pumps for the refuelling of construction engines, commercial and agricultural vehicles, motor yachts etc. with diesel or biodiesel. Applicable for filling and draining fuel oil tanks. The pumps operate efficiently and reliably even at low temperatures.  
Capacity: 30 - 100 l/min

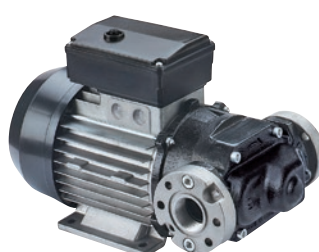
### Refueling pumps Panther 56/72 and E 80/120

- ▶ dry self-priming
- ▶ integrated pressure regulation valve (bypass)
- ▶ model Panther with integrated filter (500 µm) on suction side and anti-siphon valve
- ▶ wide range of accessories available

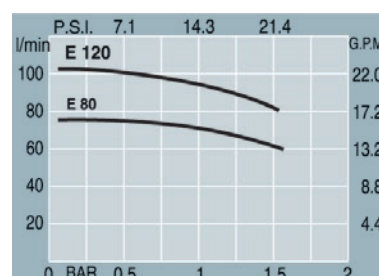


Panther 56

Panther 72



E 80/120



### Technical details

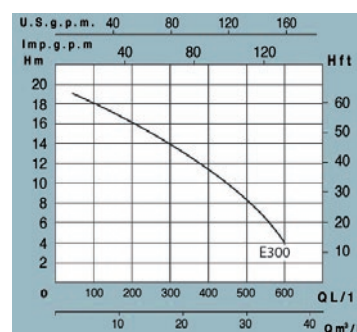
Type	Power			Flow rate max.	Pressure max.	Connections	Weight	Art.No.
	kW	Volt	A					
Panther 56-m	0,35	230	3	56 l/min	1,5 bar	1" iG x 1" iG	7,4 kg	120701
Panther 56-t	0,5	400	1,3	56 l/min	1,5 bar	1" iG x 1" iG	7,4 kg	120703
Panther 72-m	0,5	230	4,2	72 l/min	2 bar	1" iG x 1" iG	7,9 kg	120702
Panther 72-t	0,55	400	1,6	72 l/min	2 bar	1" iG x 1" iG	7,9 kg	120704
E 80-m	0,7	230	3,5	75 l/min	1,6 bar	1" iG x 1" iG	13 kg	120607
E 80-t	0,55	400	1,6	75 l/min	1,6 bar	1" iG x 1" iG	13 kg	120619
E 120-m	0,75	230	5,7	100 l/min	1,6 bar	1" iG x 1" iG	15,6 kg	120608
E 120-t	0,8	400	2,2	100 l/min	1,6 bar	1" iG x 1" iG	15,6 kg	120638
E 300	1,5	230	9,2	550 l/min	1,8 bar	2" iG x 2" iG	28 kg	P32100

### E 300 - The powerful transfer pump

- ▶ self priming
- ▶ integrated stop valve
- ▶ up to 300 l/min



E 300

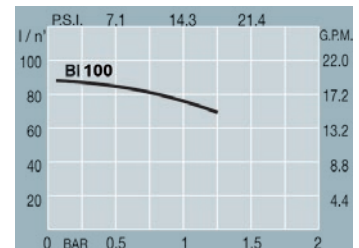


# Diesel Fuel Pumps

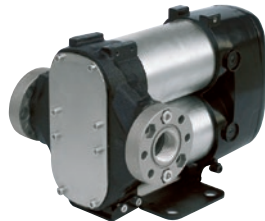
## DC powered

### Panther 56/72, BI 100 und E 3000

- ▶ dry self-priming
- ▶ integrated pressure regulation valve (bypass)
- ▶ model Panther with integrated filter (500 µm) on suction side and anti-siphon valve
- ▶ wide range of accessories available
- ▶ duty cycle max. 30 min



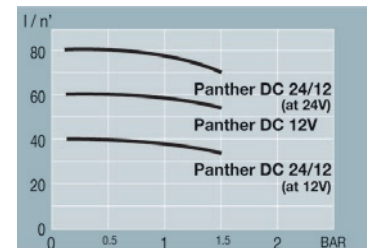
Panther DC



BI 100



E3000



### CARRY Panther / E 3000

- ▶ Pump with handle
- ▶ On/Off switch
- ▶ battery cable



Carry Panther



Carry E 3000

## Technical details

DC Powered Pump	Power			Flow rate max.	Pressure max.	Connections	Weight	Art.No.
	kW	V	A					
E 3000	0,3	12	24	50 l/min	1,5 bar	3/4"	3,5 kg	1206283N
E 3000*	0,31	24/12	13	50/30 l/min	1,5 bar	3/4"	3,5 kg	1206303N
BI 100	0,53	12	44	85 l/min	1,2 bar	1"	9,9 kg	120708
BI 100	0,54	24	22,5	85 l/min	1,2 bar	1"	9,9 kg	120707
Panther 56	0,42	12	35	56 l/min	1,5 bar	1"	7,5 kg	120701DC12
Panther 72*	0,6	24/12	25	70/35 l/min	1,5 bar	1"	7,5 kg	120702DC24
Carry Panther	0,42	12	35	56 l/min	1,5 bar	1"	9,1 kg	120672
Carry Panther*	0,6	24/12	25	70/35 l/min	1,5 bar	1"	9,1 kg	120673
Carry E 3000	0,3	12	24	50 l/min	1,5 bar	3/4"	4,2 kg	1206703N
Carry E 3000*	0,31	24/12	13	50/30 l/min	1,5 bar	3/4"	4,2 kg	1206713N

\*with 12V - smaller suction capacity

Accessories E 3000	Volt	Features	Art.No.
Cable junction	12	4 m cable and alligator clips	P16295
Cable junction	24	4 m cable and alligator clips	P16296





### Battery Kit

- ▶ On/Off-Switch
- ▶ battery cable with alligator clips
- ▶ manual Nozzle
- ▶ 4 m oil resistant rubber hose  $\frac{3}{4}$ " male thread, NW 19, with swivel connector and suction filter



### Fuel Transfer Box 3000 BASIC / PRO

Clean refuelling outdoors – a foot valve prevents dirt from getting into the suction hose.

- ▶ 4 m battery cable with alligator clips
- ▶ manual nozzle
- ▶ oil resistant rubber hose (PRO 6 m, BASIC 4 m)
- ▶ foot valve with blocking function
- ▶ diesel filter 10  $\mu$ m (PRO only)



## Technical details

DC Powered Transfer Kit	Power			Flow rate max.	Pressure max.	Connections	Weight	Art.No.
	kW	V	A					
Battery Kit E 3000	0,3	12	24	45 l/min	1,5 bar	$\frac{3}{4}$ " FPT	7,5 kg	1206313N
Battery Kit E 3000	0,31	24/12	13	45/30 l/min	1,5 bar	$\frac{3}{4}$ " FPT	7,5 kg	1206323N
Battery Kit Panther	0,42	12	35	56 l/min	1,5 bar	1" FPT	10,8 kg	120705
Battery Kit Panther*	0,6	24/12	25	70/35 l/min	1,5 bar	1" FPT	10,8 kg	120706
Fuel Transfer Box E3000 BASIC	0,3	12	24	45 l/min	1,5 bar	$\frac{3}{4}$ " grommet	9,5 kg	P23100
Fuel Transfer Box E3000 BASIC*	0,31	24/12	13	45/30 l/min	1,5 bar	$\frac{3}{4}$ " grommet	9,5 kg	P23200
Fuel Transfer Box E3000 PRO	0,3	12	24	45 l/min	1,5 bar	$\frac{3}{4}$ " grommet	12 kg	P23101
Fuel Transfer Box E3000 PRO*	0,31	24/12	13	45/30 l/min	1,5 bar	$\frac{3}{4}$ " grommet	12 kg	P23201

\*with 12V - smaller suction capacity

# Fuel Transfer Kits

## AC powered

ZUWA fuel transfer kits are complete, ready to mount systems to be fastened either to a wall or a tank.

### Features

- ▶ pump with On/Off switch and cable with plug (230 Volt only)
- ▶ types E56 and E72 with anti-siphon valve
- ▶ alternatively available with or without mechanical meter K33
- ▶ automatic nozzle (on option with type approval)
- ▶ 4 m injection hose, oil resistant rubber with textile reinforcement, 3/4" or 1" male
- ▶ Standard Version: suction kit 1,5 m oil resistant spiral hose with foot actuated valve
- ▶ all Transfer kits with Barrel Connection are equipped with telescopic tube 95 cm instead of the suction kit with spiral hose
- ▶ nozzle holder (except for E56-BS and E72-BS)



E 56-F/Z

## Technical details

### for wall fastening (on plate with meter)

Fuel Transfer Kit	Power			Pump type	Flow rate max.	Pressure max.	Art.No.
	kW	V	A				
E 56-BS/Z	0,35	230	3	Panther 56	56 l/min	1,5 bar	120713
E 72-BS/Z	0,5	230	4,2	Panther 72	70 l/min	2 bar	120639
Suction kit	for 990 Liters Tank						12082410

12 and 24 V versions available upon request!



E 72-BS/Z

### for tanks (with 2" barrel connection and flow meter)

Fuel Transfer Kit	Power			Pump type	Flow rate max.	Pressure max.	Art.No.
	kW	V	A				
E 56-F/Z	0,35	230	3	Panther 56	56 l/min	1,5 bar	120709N
E 72-F/Z	0,5	230	4,2	Panther 72	70 l/min	2 bar	120660N
E 3000-F/Z	0,3	12	24	E 3000	45 l/min	1,5 bar	1206743N
	0,31	24	13	E 3000	45 l/min	1,5 bar	1206753N



E 3000-F

### without meter (types -F with 2" barrel connection)

Fuel Transfer Kit	Power			Pump type	Flow rate max.	Pressure max.	Art.No.
	kW	V	A				
E 56-BS	0,35	230	3	Panther 56	56 l/min	1,5 bar	120711
E 72-BS	0,5	230	4,2	Panther 72	70 l/min	2 bar	120659
E 56-F	0,35	230	3	Panther 56	56 l/min	1,5 bar	120714
E 3000-F	0,3	12	24	E 3000	45 l/min	1,5 bar	1206763
	0,31	24	13	E 3000	45 l/min	1,5 bar	1206773

Nozzles with type approval for all fuel transfer units listed on option.

**ON OPTION:**  
Cable junction 12 and 24V  
see Page 4



E 56-BS

### Barrel Pump for diesel

#### Barrel pump PICO

- ▶ barrel connection 2"
- ▶ 4 m hose 3/4"
- ▶ foot valve
- ▶ manual nozzle (automatic on option)
- ▶ PICO DC with 3 m cable with alligator clips
- ▶ PICO AC with 2 m cable with plug

ON OPTION:  
digital flow meter



PICO DC



PICO AC

### Technical details

Barrel Pumps	Power			Flow rate max.	Pressure max.	Connections	Weight	Art.No.
	kW	V	A					
PICO DC	0,11	12	9	30/25* l/min	1 bar	3/4" iG x 2" aG	4,5/5,5* kg	P20204
	0,14	24	5,5	30/25* l/min	1 bar	3/4" iG x 2" aG	4,5/5,5* kg	P20208
PICO AC	0,22	230	1	35/30* l/min	1 bar	3/4" iG x 2" aG	4,5/5,5* kg	P20200

\*manual/automatic nozzle

(Drum not included)

### Barrel Pumps for oil and Diesel

- ▶ Suction tube 1"
- ▶ Barrel connection with back pressure valve and filter
- ▶ Nozzle holder
- ▶ 4 m filling hose 3/4", connection 1"

#### Barrel Pump VISCOMAT

- ▶ VISCOMAT 200 with flexible nozzle for oils and anti-drip valve
- ▶ VISCOMAT 70 with mechanical nozzle

#### Barrel Pump Panther

- ▶ Pump with anti-siphon valve (leakage protection)
- ▶ automatic nozzle 60



VISCOMAT



Panther 56

### Technical details

Barrel Pumps	Power			Flow rate max.	Pressure max.	Flow Meter	Art.No.
	kW	V	A				
VISCOMAT 200	0,8	230	3,8	9 l/min	12 bar	K400	120648FZ
	0,8	230	3,8	9 l/min	12 bar	-	120648F
VISCOMAT 70	1,15	230	5,5	25 l/min	6 bar	K33	120644FZ
	1,15	230	5,5	25 l/min	6 bar	-	120644F
Panther 56	0,35	230	3	56 l/min	1,5 bar	K24	120711FZ
	0,35	230	3	56 l/min	1,5 bar	-	120711F
Panther 56, DC	0,42	12	35	56 l/min	1,5 bar	K24	120705FZ
	0,42	12	35	56 l/min	1,5 bar	-	120705F
Panther 72, DC	0,6	12/24*	25	70 l/min	1,5 bar	K24	120706FZ
	0,6	12/24*	25	70 l/min	1,5 bar	-	120706F

\*with 12V - smaller suction capacity

# Mobile refueling - Fuel Transfer Tank for Diesel

## with ADR approval

Easy to install unit consisting of tank, suction kit, pump and delivery hose.  
Perfectly suitable for enterprises, farm yards or construction sites.

### Refueling System Features

- ▶ self priming rotary vane pump
- ▶ filter 500 µm in the pump housing
- ▶ mechanical flow meter K33 with high precision
- ▶ automatic nozzle (on option with type approval)
- ▶ 4 m high quality oil resistant delivery hose
- ▶ anti-siphon valve

### Tank Features

- ▶ nominal capacity 990 liters (smaller ones on request)
- ▶ tank level control and visual leak detector
- ▶ double wall construction (steel panels + PE-DH plastics)
- ▶ suction tube with check valve and hose
- ▶ storage approval

### Console

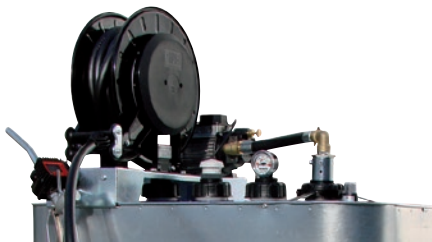
for mounting pump and hose reel on the tank - fits all standard tanks

#### ON OPTION:

- Vent connection and filling nozzle
- limit level indicator



Fuel transfer tank KT 50



Console



Limit level indicator



Fuel transfer tank E 56-BS/Z

## Technical details

Fuel Transfer Tanks	Power			Pump type	Flow rate max.	Pressure max.	Art.No.
	kW	V	A				
E 56-BS/Z	0,35	230	3	Panther 56	56 l/min	1,5 bar	CT120820
E 72-BS/Z	0,5	230	4,2	Panther 72	70 l/min	2 bar	CT120821
KT 50	0,35	230	3	Panther 56	56 l/min	1,5 bar	CT120820KT56
KT 70	0,5	230	4,2	Panther 72	70 l/min	2,0 bar	CT120820KT70

All pumps available with 12 or 24 V



## Tank Kubicus with ADR and storage approval

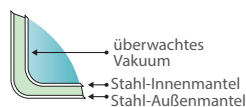
For the refuelling of machineries, aggregates and vehicles directly on the location. **Approved as IBC and storage tank**, universal use, simple transport.

### Basic Features

- ▶ vent plug, suction hose lockable
- ▶ slot for hose and cable guide
- ▶ nozzle holder and drip tray
- ▶ 4 hanging points for catenae lift
- ▶ level control with litre scale
- ▶ filling pipe with filling tube closure 2"
- ▶ transport frame for more comfort in rough terrain

### Kubicus 350 - 1000:

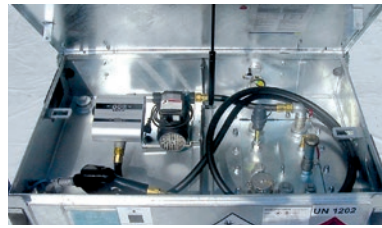
- ▶ transport- and storage tanks are double walled
- ▶ hot galvanised on inside and outside
- ▶ over pressure valve and limit level indicator



All standard gasoline / Diesel pumps available for these tanks



double wall Kubicus 350 -1000



### Kubicus 250\*:

- ▶ tank single walled\*
- ▶ powder-coated execution



single wall\* Kubicus 250

## Technical details

Type	Volume	Dimensions (mm)	Weight double wall	Weight single wall
Kubicus 350	332 l	800 x 1200 x 745	225 kg	-
Kubicus 500	475 l	800 x 1200 x 915	268 kg	-
Kubicus 700	668 l	800 x 1200 x 1135	297 kg	-
Kubicus 1000	966 l	800 x 1200 x 1395	342 kg	-
Kubicus 250*	ca. 250 l	1000 x 600 x 650	-	90 kg

\* transport legal approval for Diesel, fuel oil, gasoline and special fuel (approval-No.: D/BAM 14186/31A). Or approved after craftsman regulation - ADR 1.1.3.1c – direct transport from establishment to site of operation without detour.

# Mobile refueling

with or without ADR approval

## CADDY - the mobile refueling

**with ADR approval or ADR free** pursuant sections 1.1.3.1.a) and 1.1.3.1.c) ADR

Ideal for the refueling of small or mid sized vehicles or crafts. Featuring a unique design with ergonomic grip for excellent handling and lifting, equipped with pneumatic wheels suitable for transport on any surface.

### Basic Features:

- ▶ Slots for fixing with tension belts
- ▶ same flow rate when filling in horizontal or vertical position
- ▶ closure with integrated venting and safety ball valve
- ▶ 3 m hose, manual nozzle
- ▶ solid rubber tires

**Compact, lightweight tank made in roto-molded linear polyethylene**



with ADR approval  
for gasoline

In exemption from ADR sections 1.1.3.1.a)  
and 1.1.3.1.c) for Diesel and AdBlue



## Technical details

CADDY	55 liters			110 liters		
	Gasoline	diesel	AdBlue	Gasoline	diesel	AdBlue
Pump	hand piston pump	electric 12 V pump	rotative hand pump	hand piston pump	electric 12 V pump	rotative hand pump
Flow rate	-	45 l/min	-	-	45 l/min	-
Dimensions ca.	460 x 360 x 900 mm			460 x 440 x 1100 mm		
Weight empty	9 kg	8 kg		13 kg	12 kg	
Art.No.	120829B55	120829D55	120829A55	120829B110	120829D110	120829A110



No ADR (in line with “craftsmanship regulation”)

## Mobile tanks for Diesel and AdBlue (AUS 32, Urea)

Quick, handy refueling, straight from loading space.

### Basic Equipment / Features:

- ▶ large storage space, further equipment can be mounted
- ▶ Lid with gas spring, lockable, with 4 keys
- ▶ Extremely robust (wallthickness up to 11,5 mm)
- ▶ Selfpriming pump 12 V ( 24 V on option)
- ▶ Automatic nozzle with nozzle holder (manual nozzle with AdBlue tank)
- ▶ 6 m filling hose
- ▶ 4 m battery cable with clamp
- ▶ Large 4“filling port and vent
- ▶ Comes with 2 steel shackles to fix the tank on front side
- ▶ Integrated fork lift spaces



Mobile Tank Diesel 400 and 200l

Very wide range of applications – extremely robust and UV resistant mobile Tank

### AdBlue Version

- ▶ Membrane pump 12 V
- ▶ Manual nozzle
- ▶ 6 m filling hose for AdBlue



Mobile Tank for AdBlue 400l



## Technical details

Mobile tank	200 liter		400 liter	
	Diesel*	AdBlue	Diesel*	AdBlue
Flow rate max.	50 l/min	36 l/min	50 l/min	36 l/min
Dimensions ca.	108 x 80 x 58 mm		108 x 80 x 83 mm	
Empty Weight - Tank only	43 kg		53 kg	
wall thickness	between 7,2 and 10 mm		between 7,9 and 11,5 mm	
filling plug	4“		4“	
level indicator (on optional)	120828FÜLL	✗	1208284FÜLL	✗
Flow meter digital K24 (on option)	131839	1318170 + P15776	131839	1318170 + P15776
Art.No.	120828FB200D	120828FB200A	120828FB400D	120828FB400A

The transport of AdBlue does not require permits.

\*In exemption from ADR sections 1.1.3.1.a) and 1.1.3.1.c)

# Fuel Dispensers

## with mechanical meter

Compact, economical fuel dispensers for private and business (not for resale) use in a rugged, durable design. For wall, tank or pedestal mounting.

### Features

- ▶ dry self-priming vane pump for 230, 12 or 24 Volt
- ▶ built-in bypass valve and anti-siphon valve
- ▶ integrated filter on the suction side of the pump
- ▶ automatic nozzle - on option with type approval
- ▶ nozzle holder with lever for automatic pump start/stop
- ▶ mechanical flow meter with high precision and clearly legible display
- ▶ suction kit 1 ½ m oil resistant spiral hose, 1" with foot valve
- ▶ high quality oil resistant delivery hose 4 m, ¾" or 1" with swivel connection
- ▶ coated sheet steel housing with anti corrosion treatment

#### OPTIONAL:

- 2" connection for tank mounting on suction side
- pedestal



coupling tank mount version



fuel dispenser 56/70



fuel dispenser with pedestal



fuel dispenser mounted on tank

## Technical details

Small fuel dispensers	Power			Flow rate max.	Pressure max.	Flow meter	Nozzle	Weight	Art.No.
	kW	V	A						
KS 56	0,35	230	3	56 l/min	1,5 bar	K33	A 60	21 kg	120600
	0,42	12	35	56 l/min	1,5 bar	K33	A 60	21 kg	120599
KS 70	0,5	230	4,2	70 l/min	2 bar	K33	A 60	25 kg	120610
	0,6	24/12	25	70/35 l/min	1,5 bar	K33	A 60	21 kg	120598
KS 90	0,5	230	4,9	90 l/min	3,3 bar	K33	A 120	21 kg	P59200
pedestal	black							18 kg	P12708



# Fuel Dispensers Self Service

with mechanical meter

Fuel dispenser Self Service for private and business (not for resale) use – modern, slender design for quick and convenient refuelling. Available as standalone or tank mounted version.

## Features

- dry self-priming vane pump 230 Volt
- integrated pressure regulation valve (bypass)
- protective filter on the suction side
- automatic nozzle - optional with type approval
- nozzle holder with lever for automatic pump start/stop
- delivery hose 4 m, 1" with swivel connection
- lockable front door allows easy access for maintenance and service
- Water separating filter 30μ (on option for the tank version)

## Mechanical Flow meter K44

precision  $\pm 1\%$

subtotal dispense volume indicator 4-digit (resettable)

total dispense volume indicator 7-digit (not resettable)



Self Service K44



Water separating filter



tank version (Filter on option)

## Technical details

Self Service	Power			Pump type	Flow rate max.	Pressure max.	Nozzle	Weight	Art.No.
	kW	V	A						
70 K44	0,55	230	3,3	Panther 72	70 l/min	2 bar	A 80	67 kg	120805F
70 K44 Tank	0,55	230	3,3	Panther 72	70 l/min	2 bar	A 80	57 kg	120805Tank
100 K44	0,75	230	5,7	E120	90 l/min	1,6 bar	A 120	75 kg	120810F
100 K44 Tank	0,75	230	5,7	E120	90 l/min	1,6 bar	A 120	65 kg	120810Tank

# Fuel Dispensers

## with integrated tank data management system

Compact and sturdy fuel dispenser with data management system for private and business (not for resale) use. Easy installation. Wall, tank or pedestal mounting. Optional PC interface.

### Features

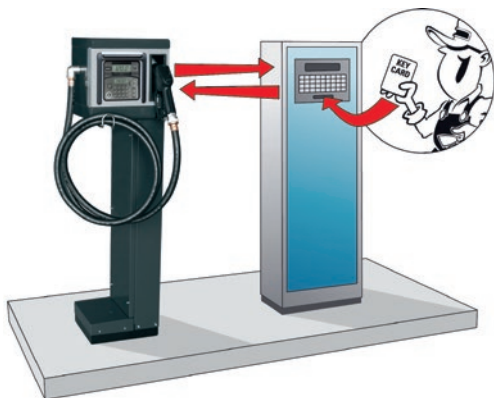
- ▶ dry self-priming vane pump for 230, 12 and 24 Volt
- ▶ built-in bypass valve and anti-siphon valve
- ▶ protective filter on the suction side
- ▶ automatic nozzle - with type approval on option
- ▶ nozzle holder with lever for automatic pump start/stop
- ▶ digital flow meter K600, precision  $\pm 0,5 \%$
- ▶ suction kit 1 ½ m oil resistant spiral hose, NW 25, 1" mt with foot valve (for models without pedestal only)
- ▶ delivery hose 4 m, 1" with swivel connection
- ▶ preadjustable charge
- ▶ access control and data management (see page 17) for up to 50/120 users with PIN code and/or magnetic key

#### OPTIONAL:

- adjustable pulser signals for easy connection with external electronic devices, for example pump controllers
- Can be combined with a tank level control system
- pedestal



Small fuel dispenser 70 MC50



## Technical details

Small fuel dispenser	Power			Flow rate max.	Pres- sure max.	Pump type	max. users	Magnetic key	Nozzle	Weight	Art.No.
	kW	V	A								
70 MC50	0,55	230	3,3	70 l/min	2 bar	Panther 72	50	on option	A 60	25 kg	120612P
70 MC120	0,55	230	3,3	70 l/min	2 bar	Panther 72	120	on option	A 60	25 kg	120613P-UK
Pedestal	black									18 kg	P12708

# Fuel Dispensers Self Service

## with integrated tank data management system

Fuel dispenser for private and business (not for resale) use with tank data management system. Modern and compact design for quick and convenient refuelling. Available as standalone or tank mounted version. PC interface on option.

### Features

- dry self-priming vane pump
- built-in bypass valve
- protective filter on the suction side
- automatic nozzle (A 80 / A 120) - with type approval on option
- nozzle holder with lever for automatic pump start/stop
- electronic flow meter K600, precision  $\pm 0,5 \%$
- delivery hose 4 m, 1" with swivel connection
- water separating filter 30 $\mu$
- preadjustable charge
- tank data management (see page 17)
- thermal printer for fuelling slip and tank level control (FM version)
- lockable front door allows easy access for maintenance and service

**New Version  
2.0 - P.17**



Self Service MC  
up to 80 users



Self Service FM  
up to 120 users

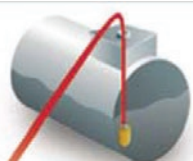


Water separating filter



also available as tank version  
(filter on option)

for FM



**level indicator  
integrated**

**ON OPTION:  
- Magnetic key**

### Technical details

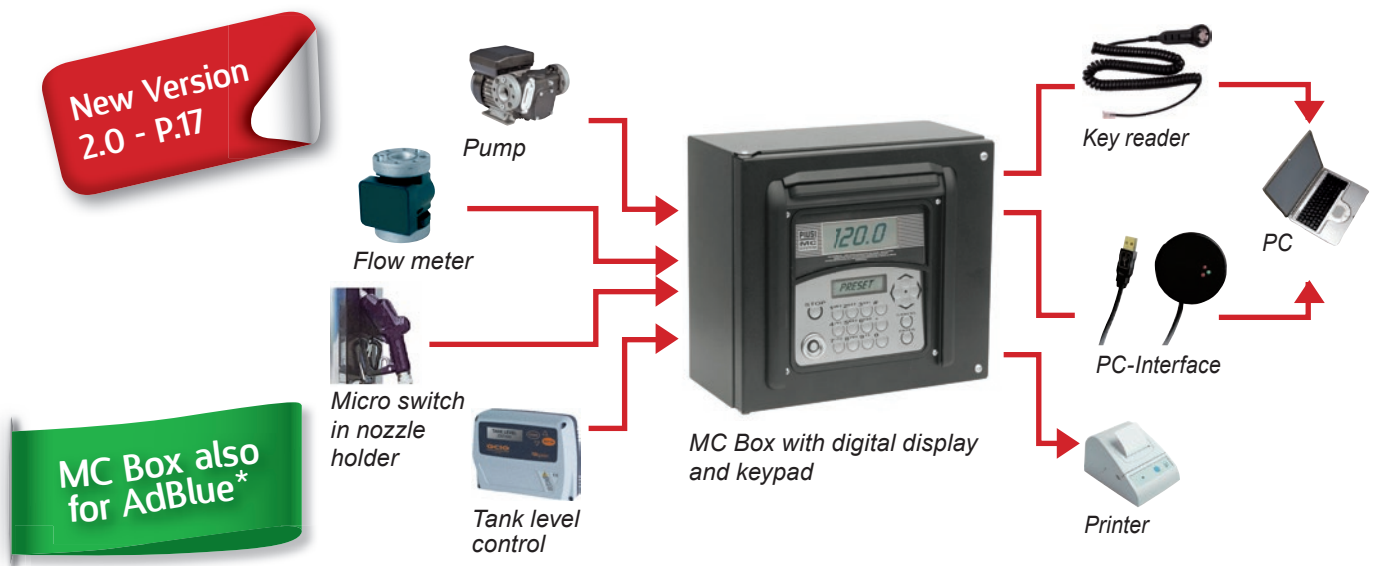
Self Service	Power			Flow rate max.	Pressure max.	Pump type	max. users	Water filter	Printer	Tank level control	Art.No.
	kW	V	A								
70 FM	0,55	230	3,3	70 l/min	2 bar	Panther 72	120	✓	✓	✓	120801P
70 FM Tank	0,55	230	3,3	70 l/min	2 bar	Panther 72	120	on option	✓	✓	120801Tank
100 FM	0,75	230	5,7	90 l/min	1,6 bar	E 120	120	✓	✓	✓	120806P
100 FM Tank	0,75	230	5,7	90 l/min	1,6 bar	E 120	120	on option	✓	✓	120806Tank-P
70 MC F	0,55	230	3,3	70 l/min	2 bar	Panther 72	80	✓	✗	✗	120803P
70 MC Tank	0,55	230	3,3	70 l/min	2 bar	Panther 72	80	on option	✗	✗	120803Tank
100 MC F	0,75	230	5,7	90 l/min	1,6 bar	E 120	80	✓	✗	✗	120808P
100 MC Tank	0,75	230	5,7	90 l/min	1,6 bar	E 120	80	on option	✗	✗	120808PTANK

# MC-Box and Tank Level Control

## MC Box - control system for multiple fuel units

### Logging and administration of tank data via PC and printer for Diesel or AdBlue\*

- ▶ the digital display shows dispense quantity dispensed and operating instructions
- ▶ administration of up to 80 users
- ▶ access control via PIN code or magnetic key
- ▶ preadjustable filling quantity
- ▶ local memory for up to 250 performed dispensing operations (dispense volume, date, time, user and on option: kilometres, vehicle registration number)
- ▶ connection to tank level control
- ▶ administration of micro switch connected to the nozzle holder
- ▶ data transfer to PC via key reader or specific transfer cable (RS Converter, for a distance of up to 1000 m) via USB interface



## Tank Level Control

Permanent high precision display of tank content. The unit consists of a control device with system integrated software and a 10 metre hose. On option: PC interface, easy to configure.

### Adjustments

- ▶ filling level alarm (min. and max.)
- ▶ level indicator (height, volume, percentage in various measures)
- ▶ calibration

Art.No. 131808

Tank level control, extension for oil:  
Art.No. P12939

### Extended remote control

Filling level control can be expanded with a remote control system sending out alarm signals or the current filling level via SMS or e-mail. Monitoring of up to 8 tanks.

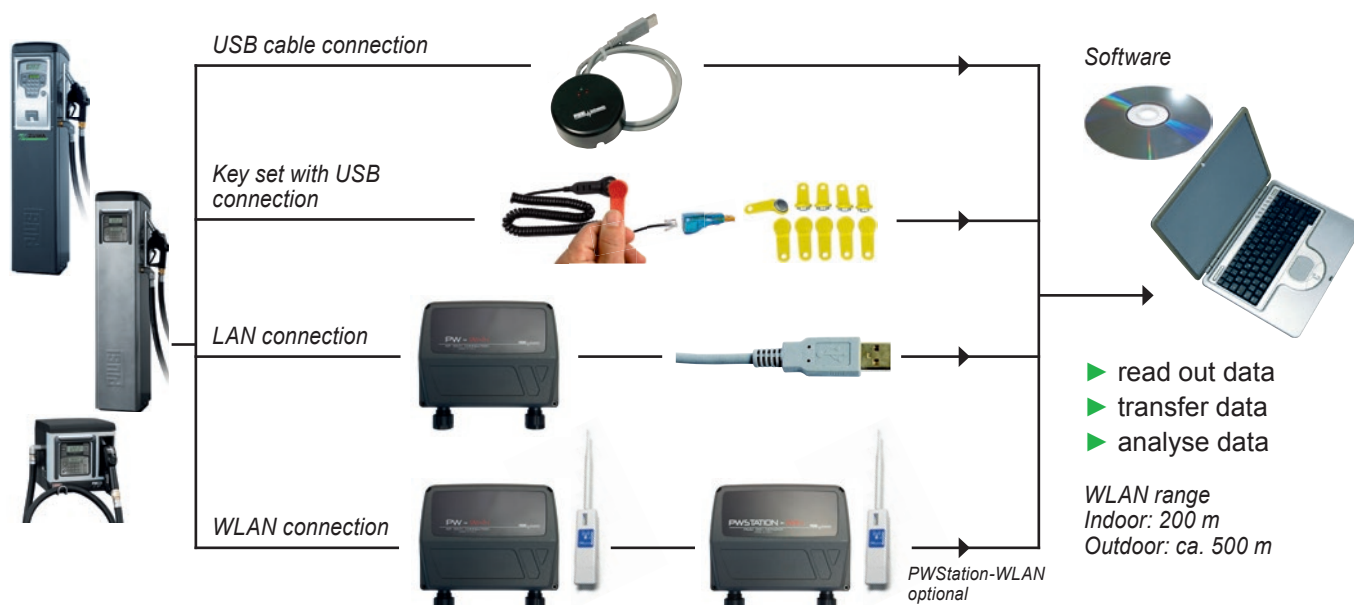




# Tank Data Management

## Features Tank Data Management

- ▶ digital display shows dispense quantity and operating instructions
- ▶ access control and data management for up to 120 users via PIN code and/or magnetic key
- ▶ local memory for up to 250 performed dispensing operations (dispense volume, date, time, user and optional kilometres, vehicle registration number)
- ▶ data management software for administration and analysis on PC
- ▶ connection and data transfer to PC via magnetic key (master key) and/or serial interface FS 485 or via LAN/WLAN
- ▶ magnetic key for comfortable access and high security level (prevents illegal use)



## Self Service Management 2.0:

- ▶ Up to 1000 users
- ▶ vehicle detection via magnet key
- ▶ Warnings when the fill level is to high or to low
- ▶ The complete programming is handled by the computer
- ▶ On a defect, all the data can recovered by synchronizing
- ▶ Free software updates

Please contact us for more information.

## Technical details

Tank Data Management	Content	Art.No.
Magnetic key set for USB connection	1 masterkey, 10 userkeys, PC reader, PC software	P14144P
PC converter	with software for direct connection of fuel dispenser	P12710
Magnetic key for administrator	1 masterkey	P12496
Magnetic key set for users	10 userkeys	P12495P
PW-WLAN data transmission	RS485 board-/Ethernet signal changer, antenna, software	P12714
PW-LAN data transmission	Device with RS485-/Ethernet-Signal, software	P12715
PW-WLAN MCO-OCIO interface		P127111
PW-LAN MCO-OCIO interface		P127110
PW-WLAN OCIO tank level control	Remote control for one tank	P12755
PW-Station-WLAN data transmission	WLAN repeater (to extend range)	P12719

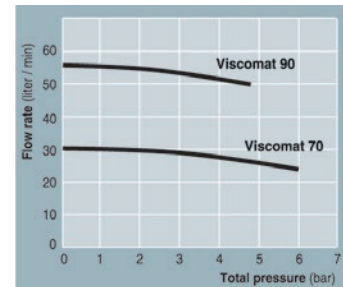
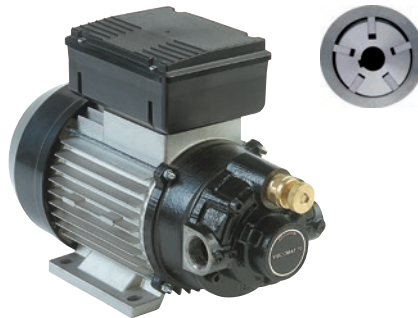
# Oil Pumps



Vane, gear and impeller pumps for oils with almost all grades of viscosity. Also suitable for vegetable oil. Some types are available with pressure switch for automatic pump start and stop.

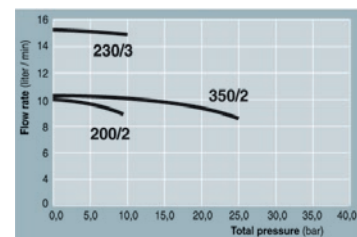
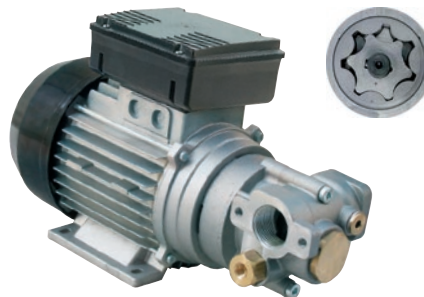
## VISCOMAT 70/90

Self-priming vane pumps with specially designed blades for the transfer of oils and lubricants. The adjustable bypass valve (except for Viscomat 90-m) provides flow regulation. Excellent suction capacity and low-noise operation.



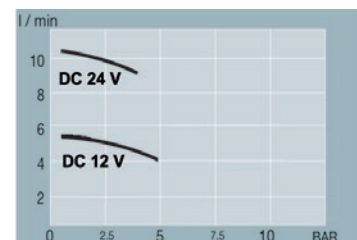
## VISCOMAT 200/230/350

Gear pumps with excellent suction capacity and an internal profile maintaining constant flow at high pressure. Integrated bypass and venting valve. Pump can be mounted horizontally or vertically.



## VISCOMAT DC 12/24 V

Gear pump with DC motor and battery connection for oil transfer or to draw off oil. For any mobile application.



## Technical details

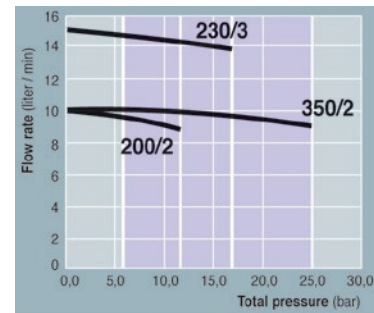
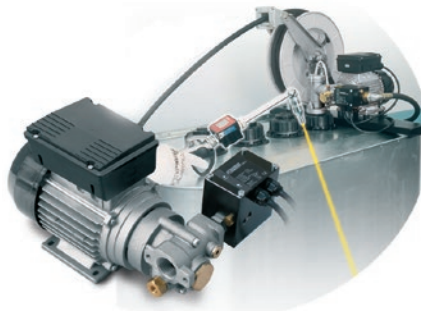
Oil Pumps	Power			rpm	Flow rate max.	Pressure max.	Connections	Weight	Art.No.
	kW	V	A						
Viscomat 70-m	1,15	230	5,5	1450	25 l/min	6 bar	1" ft x 1" ft	14,1 kg	120609
Viscomat 70-t	0,80	400	2,3	1450	25 l/min	6 bar	1" ft x 1" ft	14,1 kg	120606
Viscomat 90-m	1,35	230	6,2	1450	50 l/min	5 bar	1" ft x 1" ft	14,1 kg	1206070
Viscomat 90-t	2	400	5	1450	50 l/min	5 bar	1" ft x 1" ft	14,1 kg	1206069
Viscomat 200-m	0,8	230	3,8	1450	9 l/min	12 bar	1" ft x 1" ft	9 kg	1206092
Viscomat 200-t	0,6	400	1,4	1450	9 l/min	12 bar	1" ft x 1" ft	9 kg	1206096
Viscomat 230-m	1,25	230	6	1400	14 l/min	16 bar	1" ft x 1" ft	12,5 kg	1206091
Viscomat 230-t	1,2	400	2,7	1400	14 l/min	16 bar	1" ft x 1" ft	12,5 kg	1206095
Viscomat 350-m	1,2	230	6	1250	9 l/min	25 bar	1" ft x 1" ft	12,5 kg	1206093
Viscomat 350-t	1,2	400	2,7	1450	9 l/min	25 bar	1" ft x 1" ft	12,5 kg	1206094
Viscomat DC 12V	0,15	12	18,5	2900	4 l/min	5 bar	½" ft x ½" ft	3 kg	1206097
Viscomat DC/2 12V	0,3	12	35	2900	10 l/min	4 bar	¾" ft x ¾" ft	5 kg	12060972
Viscomat DC 24V	0,15	24	9,5	2900	4 l/min	5 bar	½" ft x ½" ft	3 kg	1206098
Viscomat DC/2 24V	0,3	24	18	2900	10 l/min	4 bar	¾" ft x ¾" ft	5 kg	12060982

\* Further oil pumps with higher flow rate can be found in our special brochure VISCOSTAR.

## VISCOMAT

### with pressure switch

The pressure switch automatically starts the pump when the nozzle opens and switches it off when maximum pressure is reached.



## Technical details

Viscomat with pressure switch	Power			rpm	Flow rate max.	Pressure max.	Connections	Weight	Art.No.
	kW	V	A						
Viscomat 200	0,8	230	3,8	1450	9 l/min	12 bar	1" ft x 1" ft	12 kg	120645
Viscomat 230	1,2	230	6	1450	14 l/min	16 bar	1" ft x 1" ft	15 kg	120651
Viscomat 350	1,25	230	6	1450	9 l/min	25 bar	1" ft x 1" ft	15 kg	120647

## Oil Transfer Kit

Oil pump VISCOMAT 70, plate mounted for wall fastening.

### Features:

- ▶ filter on the suction side
- ▶ 1,5 m oil resistant suction hose ¾" with foot valve
- ▶ 4 m oil resistant delivery hose ½"
- ▶ nozzle for oils with digital flow meter K400
- ▶ holder for nozzle and filling hose

(Art.No. 120644 for 230 Volt, Art.No. 120646 for 400 Volt)



## Impeller pumps UNISTAR 2000-A/B/C

### for oils and Diesel - perfect for cleaning tanks

Dry self-priming ZUWA impeller pumps are capable of draining tanks nearly completely. The flexible impeller allows to pass suspended solids with the liquid and is ideal for pumping waste oil.

- ▶ extraction of waste oil from motors and gear boxes
- ▶ extraction of solid cooling lubricants
- ▶ maintenance of machines
- ▶ draining fuel oil tanks

See the Impeller Pump catalogue for additional information and the wide range of pumps available.



Barrel pump  
Page 7

## Technical details

Impeller Pump	Power			rpm	Flow rate max.	Pressure max.	Connections	Weight	Art.No.
	kW	V	A						
UNISTAR/V 2000-A	0,37	230	3,2	2800	30 l/min	3 bar	¾" mt x ¾" mt	9,5 kg	110121M
UNISTAR/V 2000-B	0,56	230	4	2800	60 l/min	3 bar	1" mt x 1" mt	10 kg	110131M
UNISTAR/V 2000-C	1,1	230	8,8	2800	90 l/min	3 bar	1¼" mt x 1¼" mt	12 kg	11331136341

## The mobile Oil Dispenser

Viscotroll is the ideal solution for delivering oil from a drum anywhere in the workshop. Powered by electricity it can be connected to any power socket thus eliminating the need for compressed air.

### Viscotroll 70

- ▶ pump Viscomat 70, 230 Volt
- ▶ manual nozzle
- ▶ 4 m delivery hose 3/4"
- ▶ 1,5 m suction hose 1"
- ▶ flow rate max. 25 l/min
- ▶ pressure max. 6 bar
- ▶ viscosity max. 500 cSt
- ▶ on option with flow meter K33, precision  $\pm 1\%$

### Viscotroll 200

- ▶ pump Viscomat 200, 230 Volt
- ▶ nozzle with anti-drip valve
- ▶ 4 m delivery hose 1/2"
- ▶ 1,5 m suction hose 1"
- ▶ flow rate max. 9 l/min
- ▶ pressure max. 12 bar
- ▶ viscosity max. 2000 cSt
- ▶ on option with flow meter K400, precision  $\pm 0,5\%$
- ▶ on option with pressure switch



## Technical details

VISCOTROLL	70		200			
Trolley	✓	✓	✓	✓	✓	✓
Pump	VISCOMAT 70		VISCOMAT 200			
Pressure switch	✗	✗	✗	✗	✓	✓
Flow meter	✗	✓	✗	✓	✗	✓
manual Nozzle	✓	✓	✗	✗	✗	✗
Oil nozzle with anti-drip valve	✗	✗	✓	✓	✓	✓
Art.No.	P26310	P26311	P26300	P26301	P26302	P26303

(Barrel not included)



## Filtroll

### Filter unit on wheels with oil or diesel pump

- ▶ filtering oil and diesel in two steps:  
30 µm for water absorption – 5 µm for impurities
- ▶ automatic stop when filter is clogged (on option)
- ▶ robust trolley with large pneumatic wheels
- ▶ suction line with integrated foot valve (only for Panther 56)
- ▶ power supply 230 Volt

### Technical details

Filtroll for	Pump	Flow rate max.	Hoses	Art.No.
Diesel and Oil	Viscomat 70	25 l/min	3 m suction hose 3/4", 3 m delivery hose 3/4" with open delivery pipe	120658
Diesel	Panther 56	56 l/min	3 m suction hose 3/4", 4 m delivery hose 3/4" with manual Nozzle	120657



## MobilFil and Depuroil

### Oil filtration and decanting device

The mobile oil filtration device is the ideal equipment to remove suspended particles from the oil.

### Mobile filter and handling device

- ▶ pressure gauge to control filter (congestions)
- ▶ replaceable filter cartridge
- ▶ power supply 230 V
- ▶ 2 x 2 m spiral hose 3/4"
- ▶ intake tube

### Spare filter

replaceable filter, 10µm  
Art.No. P61100



Spare filter



MobilFil



Depuroil

### Technical details

Oil filtration and decanting device	Power			Flow rate max.	Dimensions cm	Weight	Art.No.
	kW	V	A				
Depuroil Viscomat 70	0,75	230	4,6	25 l/min	67 x 31 x 33	28 kg	120669
Depuroil Viscomat 90	1,35	230	6,2	50 l/min	67 x 31 x 33	28 kg	120668
MobilFil UNISTAR-B	0,56	230	4	30 l/min	67 x 31 x 33	26 kg	120667

# Servicecenter for oils and Diesel

## Solutions for Oil service and Oil transfer

### Stationary ServiceCenter

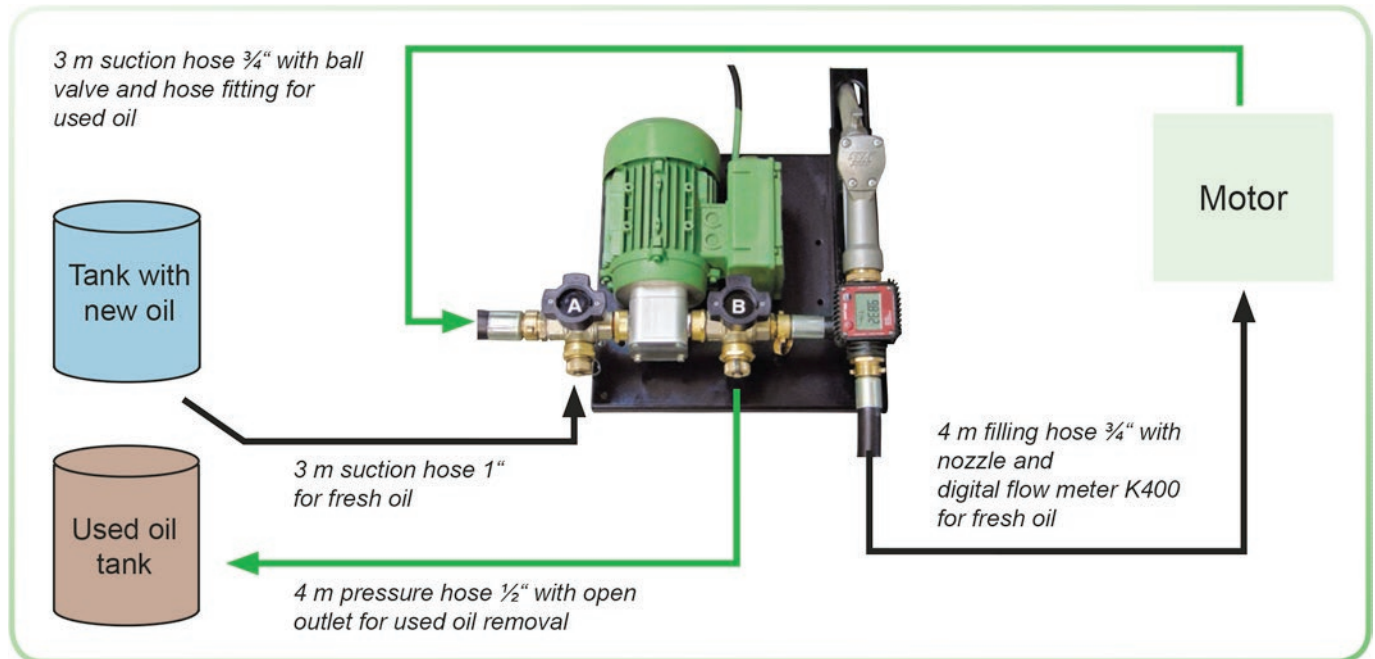
rapid and convenient motor oil change in CHP units

#### Features

- ▶ pump Unistar 2000-B - flow rate with oil max. 18 l/min
- ▶ nozzle with electronic flow meter

- ▶ 2 x 3 m suction hose and 2 x 4 m pressure hose
- ▶ 2 multifunctional valves

Art.No. 11231136332-BHKW



### Mobile ServiceCenter

Mobile unit to extract and decant clean or stained oils of all kinds.

- ▶ dry self priming impeller pump, Flow rate with oil max. 18 l/min
- ▶ suction and pressure hose 3 m each
- ▶ 4 suction probes suitable for dip stick inlets or filling ports
- ▶ detachable probe retainer with closed bottom to collect fluid residues from the probes

- ▶ 2 multifunctional valves
- ▶ comfortable trolley with large pneumatic wheels
- ▶ tank with 55 liters

Art.No.: 132064 (UNISTAR 2000-A)

Art.No.: 132065 (UNISTAR 2000-B)



# AdBlue (AUS 32, Urea) Pumps and Transfer Kits

## Pumps and Dispensing Kits

In order to meet the new EURO 5 directive (reduction of noxious emissions) trucks are equipped with SCR catalytic converters requiring the use of AdBlue (AUS 32, Urea), a mixture of water and urea. Each truck has an additional tank for this specific fluid.

Further AdBlue Products\*

### Dispensing kit PRO / BASIC for AdBlue (AUS 32, Urea)

**Complete dispensing kit especially suitable for IBC or smaller container.**

- ▶ powerful self priming diaphragm pump
- ▶ digital flow meter K24 (type Pro)
- ▶ suction hose with quick coupling
- ▶ 6 metre supply hose
- ▶ automatic nozzle (on PRO and BASIC PLUS) or manual nozzle (on BASIC)
- ▶ nozzle holder with drip collector



Dispensing kit PRO with flow meter and automatic nozzle

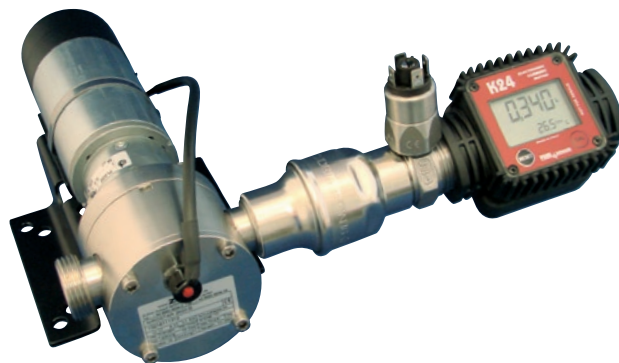
### Pumps for AdBlue (AUS 32, Urea)

- ▶ dry self-priming impeller pump, easy to maintain, with pump body of high quality stainless steel (AISI 316 Ti) for 230 Volt, 400 Volt or battery drive with 12 or 24 Volt.
- ▶ flow rate with AdBlue: max. 45 l/min
- ▶ ultra light

**SPECIAL:**  
better performance  
higher pressure

#### On option:

- ▶ high precision digital flow meter K24
- ▶ pressure switch for automatic ON/OFF
- ▶ dry run protection



AdBlue (AUS 32, Urea) Pump for battery drive (DC) with flow meter, pressure switch and dry run protection.

### Technical details

Pumps and Dispensing Kits for AdBlue	Power			rpm	Flow rate max.	Pressure max.	Art.No.
	kW	V	A				
Dispensing Kit BASIC	0,4	230	1,95	2850	35 l/min	1,5 bar	ZU81605
Dispensing Kit PRO	0,4	230	1,95	2720	35 l/min	1,5 bar	ZU81604KS
Impeller pump AC	0,56	230	4,3	2850	45 l/min	4 bar	13218116331
Impeller pump DC	0,11	12/24	7,3/8,3	670/1560	12/25 l/min	3/3,3 bar	13218111312

\*You find a wide range of AdBlue (AUS 32, Urea) products in our separate AdBlue brochure

# Nozzles

## for Diesel

Nozzles  
for AdBlue\*

### Manual Nozzles

- ▶ swivel connection
- ▶ low flow loss
- ▶ types 120 and 150 with aluminium housing



manual  
plastics



manual120



manual 150

### Automatic Nozzles

- ▶ swivel connection
- ▶ stops fuelling process automatically when tank is full
- ▶ rubber jacket - convenient handling also in low temperatures (not available for nozzle 280)



Hoses and  
hose reels  
see  
page 31



automatic 60



automatic 80/120



automatic 280

## Technical details

Nozzles for Diesel and Biodiesel	Flow rate max.	Outlet Ø	Suitable for	Connections	Art.No.
plastics manual	80 l/min	34 mm		1" iG	131041
120 manual	120 l/min	25 mm		1" iG	131016
150 manual	150 l/min	25 mm		1" iG	131080
A 60 automatic	70 l/min	24 mm	car	1" iG	131033
A 60 automatic with type approval	70 l/min	24 mm	car	1" iG	131033GN
A 80 automatic	90 l/min	29 mm	truck	1" iG	131069
A 120 automatic	120 l/min	29 mm	truck	1" iG	131070
A 90/120 automatic with type approval	120 l/min	29 mm	truck	1" iG	131070GN
A 280 automatic	280 l/min	38,5 mm	truck	1½" iG	1310250

\*Nozzles for AdBlue (AUS 32, Urea) - please see our detailed AdBlue brochure



## for Oil and lubricants

### Nozzles for oils

- ▶ with automatic anti-drip valve
- ▶ alternatively with flexible or rigid end fitting
- ▶ preadjustment of charge with meter K500\*



Nozzle rigid



Nozzle flexible



Nozzle flexible with K40



Nozzle flexible with K400



Nozzle rigid with K500\*



Pistol one rigid with NEXT/2



Pistol one flexible with NEXT/2

## Technical details

Nozzles for Oils and Lubricants with automatic Anti-drip Valve	Flow rate max.	Connections	Art.No.
rigid	30 l/min	1/2" iG	131803
flexible	30 l/min	1/2" iG	131804
Pistol one rigid	90 l/min	3/4" iG	P64001
Pistol one flexible	90 l/min	3/4" iG	P64002
rigid, with mechanic flow meter K40	1-30 l/min	1/2" iG	131818
flexible, with mechanic flow meter K40	1-30 l/min	1/2" iG	131819
rigid, with digital flow meter K400	1-30 l/min	1/2" iG	131802
flexible, with digital flow meter K400	1-30 l/min	1/2" iG	131801
flexible, with digital flow meter K500*	1-30 l/min	1/2" iG	131807
Pistol one rigid, with digital flow meter NEXT/2	6-60 l/min	3/4" iG	P97401
Pistol one flexible, with digital flow meter NEXT/2	6-60 l/min	3/4" iG	P97402

\* required quantity can be preadjusted

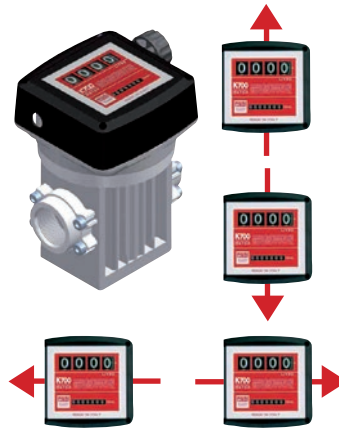
# Flow Meters

## mechanical and electronic

### K700M for oil and Diesel

Calibratable flow meter for plants with high flow rate. Pivotable, analogue display with 4-digit subtotal and 7-digit total dispense volume indicator.

- ▶ precision  $\pm 1\%$
- ▶ housing: aluminium
- ▶ flow rate: 20 - 220 l/min
- ▶ working pressure max. 10 bar
- ▶ connections: 1½" iG



### K33/K44 for Diesel and oil

K33: 3-digit subtotal and 6-digit total dispense volumen indicator

K44: 4-digit subtotal and 7-digit total dispense volumen indicator

- ▶ precision  $\pm 1\%$
- ▶ low flow loss

Also available with Ex-approval



## Technical details

Mechanical Flow meter	Flow rate max.	Pressure max.	Connec-tion	Dimensions	Weight	Art.No.
K33	20-120 l/min	10 bar	1" iG	80 x 180 x 170 mm	2 kg	131072
K44	20-120 l/min	10 bar	1" iG	80 x 180 x 170 mm	2 kg	131806
K700M	20-220 l/min	10 bar	1½" iG	240 x 240 x 275 mm	5,8 kg	131700

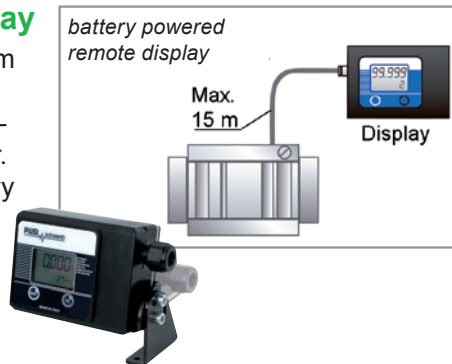
### Pulser flow meter for Diesel and oil

Meters for connecting with an external receiver, with or without remote indicator.

#### Remote Display

Displays data from a distance of 15 metres when connected to a meter. Works with battery supply.

Art.Nr. P495010



## Technical details

Elektronic Pulser Flow meter	Flow rate max.	Pressure max.	Connection	Weight	Art.No.
K24	5-120 l/min	20 bar	1" aG x 1" iG	0,5 kg	1318171
K200	0,1-2,8 l/min	30 bar	¼" iG	0,5 kg	131823
K400	1-30 l/min	70 bar	½" iG	0,5 kg	131824
K600/3	10-100 l/min	30 bar	1" iG	2,6 kg	P472000
K600/4	15-150 l/min	20 bar	1½" iG	3,2 kg	P473000
K700	25-250 l/min	20 bar	2" iG	5,5 kg	P498000
K900*	50-500 l/min	20 bar	3" iG	12 kg	P499020

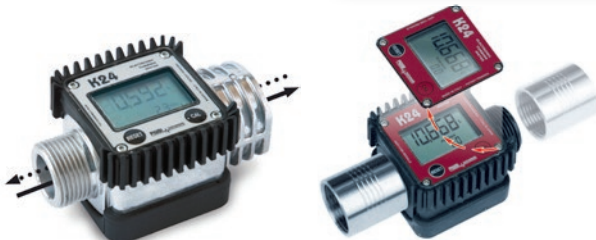
\* remote display and cable connection included

### K24 for Diesel, Bio Diesel and heat transfer fluid

pivoted digital display with 5-digit subtotal and 6-digit total dispense volume indicator

- high precision  $\pm 1\%$
- battery charge indicator

New: made of aluminium



K24 with rotatable display and adapter

### NEXT/2 for oil

Digital display with 5-digit subtotal and 8-digit total dispense volume indicator

- precision  $\pm 0,5\%$



NEXT/2



### K200 for Diesel, Bio Diesel and oil

Digital display with 5-digit subtotal and 8-digit total dispense volume indicator.

- precision  $\pm 0,5\%$
- low flow loss



K200

### K400 for oil and lubricants

Digital display with 5-digit subtotal and 7-digit total dispense volume indicator.

- precision  $\pm 0,5\%$
- low flow loss



K400

### K600 for Diesel and Bio Diesel

(K600/3 also for oils)

Digital display with 5-digit subtotal and 8-digit total dispense volume indicator.

- precision  $\pm 0,5\%$
- low flow loss
- integrated filter in the suction line
- low battery indicator
- calibratable



K600



K600B/3  
with extra large display (80 mm)

## Technical details

Elektronik Flow meter with Display	Flow rate max.	Pressure max.	Connections	Gehäuse	Weight	Art.No.
K24 + Adapter	5-120 l/min	20 bar	1" aG x 1" iG	plastic	0,5 kg	131814N
K24 Alu	7-120 l/min	20 bar	1" aG x 1" iG	Aluminium	0,5 kg	131839
K200	0,1-2,5 l/min	500 bar	1/8" iG	Aluminium	0,6 kg	131822
K400	1-30 l/min	70 bar	1/2" iG	Aluminium	0,5 kg	131801Z
K600/3	10-100 l/min	30 bar	1" iG	Aluminium	1,6 kg	131805
K600B/3	10-100 l/min	30 bar	1" iG	Aluminium	1,6 kg	P49100
K600/4	15-150 l/min	20 bar	1 1/2" iG	Aluminium	3,2 kg	131809
K900	50-500 l/min	20 bar	3" iG	Aluminium	12 kg	131701
NEXT/2	6-60 l/min	70 bar	3/4" iG	Aluminium	0,6 kg	P48615

\*Flow meters for AUS 32 - please see our detailed AUS 32 brochure

# Gasoline Pump and Transfer kit

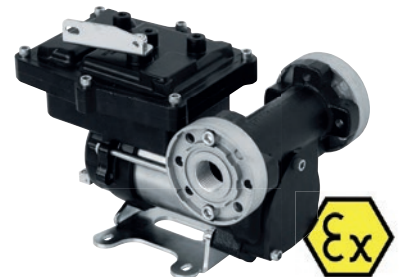
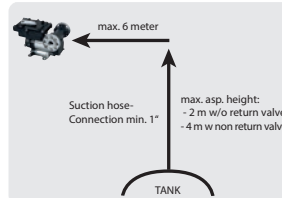
## Gasoline pump EX50

Pump according to ATEX/IECEx guideline for product safety in Europe (II 2 G Ex d IIA T4 Gb).

Fully-flanged components: Pump, flow meter and filters can be fitted or replaced without the use of sealing paste, making the connections quick and safe.

### Features

- ▶ compact and sturdy construction
- ▶ cast iron body
- ▶ ON/OFF Switch
- ▶ anti-noise filter  
(electromagnetic compatibility EMC)
- ▶ integrated bypass valve
- ▶ thermal protect switch



## Gasoline Transfer Kit

Transfer kit for flammable liquids (gasoline, kerosene and diesel).

### Drum pump Features

- ▶ telescopic tube on suction side
- ▶ 2" barrel connection with integrated dirt filter, return valve and pressure control valve
- ▶ nozzle holder
- ▶ water separating filter
- ▶ hose for gasoline ATEX, 4 meters, D20
- ▶ automatic nozzle

On Option: flow  
meter K33 ATEX



Drum pump EX50

### Wall mounted Features

- ▶ mechanical meter K33 ATEX
- ▶ metal suction filter
- ▶ hose for gasoline ATEX, 4 meters, D20
- ▶ automatic nozzle

On Option: with  
water filter P11698



Wall mounted EX50

## Technical details

Pump, transfer kit (Ex-proof)	Power			max. Flow		Conne- ction	operating cycle on/off	Access- ories	Art.No.
	kW	V	A	rate	pressure				
EX 50 DC	0,25	12	21	50 l/min	0,6 bar	1" iG	30/60 min	-	P37100
EX 50 AC	0,25	230	1	50 l/min	0,6 bar	1" iG	30/60 min	-	P37300
Transfer kit (drum pump) EX 50 DC	0,25	12	21	50 l/min	0,6 bar	1" iG	30/60 min	aut. nozzle	P37201
	0,25	12	21	50 l/min	0,6 bar	1" iG	30/60 min	aut. nozzle and flow meter	P37501
Transfer kit (drum pump) EX 50 AC	0,25	230	1	50 l/min	0,6 bar	1" iG	30/60 min	aut. nozzle	P37401
	0,25	230	1	50 l/min	0,6 bar	1" iG	30/60 min	aut. nozzle and flow meter	P37601
Transfer kit (wall mounted) EX50 AC	0,25	230	1	50 l/min	0,6 bar	1" iG	30/60 min	aut. nozzle and flow meter	P37700



## Flow Meters

The new mechanical flow meters for noncommercial applications meet the requirements of the ATEX guidelines for precise measuring of fluids (Gasoline, Kerosene, Diesel) disposed, even in heavily explosive environment (II 2 G IIB T6, in accordance with guideline 99/92/EG).

The meters can be installed in any position both in rigid and flexible tubes, right on a pump or on a tank.

reliable, inexpensive,  
easy installation and  
calibration



Flow direction (B-Standard)

### K33 ATEX

- ▶ Accuracy +/- 1%
- ▶ reproducibility +/- 0.3%
- ▶ working pressure max. 3,5 bar
- ▶ flow rate 20-120 l/min
- ▶ 3-digit subtotal and 6-digit total dispense volume indicator

### K24 ATEX

- ▶ Accuracy +/- 1%
- ▶ reproducibility +/- 0.3%
- ▶ working pressure max. 20 bar
- ▶ flow rate 7-120 l/min
- ▶ 5-digit subtotal and 6-digit total dispense volume indicator



## Automatic Nozzle ATEX

Explosion proof, automatic nozzle (II 1 G).

## Technical details

Flow meter and Nozzle	Flow rate max.	Working pressure max.	Connection	Art.No.
Flow meter K24 ATEX	7-120 l/min	20 bar	1" iG	P40800
Flow meter K33 ATEX	20-120 l/min	3,5 bar	1" iG	P57000
automatic Nozzle EX 50 ATEX	60 l/min	-	1" iG	P61302



### Accessories:

- ▶ hose for gasoline ATEX, 4 meters, D20
- ▶ adapter NPT/BSP ATEX
- ▶ adapter cable fitting ATEX
- ▶ electric connection cable with cable fitting ATEX DC 12 V, 4 meters
- ▶ spare cartridge Water separating filter, 30 µm - 70 l/min

Art.No. P18151  
Art.No. P18156  
Art.No. P17996  
Art.No. P17771  
Art.No. P11567

## Hand pump

ZUWA hand pumps - for a convenient always and everywhere use



Vane pump



Reciprocating pump

## Technical details

Hand pump	pump type	Flow rate max.	Features	Art.No.
for oil, diesel and gasoline	Vane pump	40 l/min	with 2" barrel adapter and suction pipe	P332000
for oil and diesel	Reciprocating pump	0,3 l/hub	2" barrel adapter and telescopic suction pipe (400-915 mm)	120613

## Transparent Filters for Diesel and Oil

### Water separating filter

- ▶ 30 µm, one spare filter included transparent case with bottom valve to dispose water  
Art.No.: P611B10
- ▶ 6 cartridges Art.No.: P611040



### Dirt filter

- ▶ 30 µm, one spare filter included transparent case with bottom valve to dispose water  
Art.No.: P611B00
- ▶ 6 cartridges Art.No.: P611030
- ▶ 125 µm, with bottom valve, washable metal cartridge for Diesel and oil\*  
Art.No.: P611B60



## Cartridge Filter for Oil

- ▶ 10 µm, max. 100 l/min, 1" female  
Art.No.: 12060502
- ▶ cartridge  
Art.No.: P9359



## Water Separating Filter

- ▶ 70 - 30 µm, max. 70 l/min, 1" female (incl. 1 spare filter) Art.No.: P611A00
- ▶ spare filter Art.No.: P11567
- ▶ 150 - 30 µm, max. 150 l/min, 1" female  
Art.No.: P611A10
- ▶ spare filter Art.No.: P611020E



## 90° Line Filter

for Fuel and Oil pumps, 350 µm,  
1" female Art.No.: 12060501



## Foot valve 1" with overpressure valve

for Oil and Diesel  
1" female, Art.No.: 131045



## Foot valve for Diesel

strainer with blocking function

- ▶ ¾" female, Art.No.: P1239908
- ▶ 1" female, Art.No.: P1239905

Suction hose stays filled, no leaking of diesel.



pivoted  
ON/OFF  
foot valve

## Barrel Adapter

- ▶ one piece 2" male x 1" female, with integrated filter 500µm and stop valve  
Art.No.: P17163
- ▶ without stop valve  
Art.No.: P17190



## Barrel (Tank)-Adapter

Two piece for easy mounting of the pump onto the tank. Pump side 1" male thread and barrel side 2" male thread

Art.No.: 131080N



## Quick Coupling

leak proof coupling for diesel and oil hoses 1"  
Art.No.: P63600



## Swivel Connection

for nozzles

- ▶ 1" female x ¾" male, Art.No.: 131103
- ▶ 1" female x 1" male, Art.No.: 131099



## Hoses for Diesel Fuel and Oil

All hoses are equipped with swivel connector.

### Filling hose of oil resistant rubber with reinforcement

up to max. 10 bar pressure

- ▶ 1/2" hose, NW 13, sold per meter Art.No. 30077
- ▶ 3/4" hose, NW 19, sold per meter Art.No. 30074
- ▶ 1" hose, NW 25, sold per meter Art.No. 30075
- ▶ 1 1/2" hose, NW 38, sold per meter Art.No. 30086
- ▶ 1/2" filling hose kit with 4 m, for Viscomat 70/90 Art.No. 131024\*
- ▶ 1/2" filling hose kit with 4 m, for Viscomat 200/230/350, (up to max. 25 bar pressure) Art.No. 131024HP\*
- ▶ 3/4" filling hose kit for Diesel and Fuel Oil (no Gasoline), 1" male thread, max 10 bar operating pressure 4 m: Art.No. P08976  
(other lengths: Art.No. 131012) 6 m: Art.No. P08945
- ▶ 1" filling hose kit for Diesel and Fuel Oil (no Gasoline), 1" male thread, max 10 bar operating pressure 4 m: Art.No. P089770  
(other lengths: Art.No. 131064) 6 m: Art.No. P08858



filling hose kit



suction hose kit

### Suction hose with spiral inlay, made of oil resistant plastics

- ▶ 1" hose, NW 25, sold per meter, Art.No. 30095
- ▶ 1" suction kit, NW 25, with 1,5 m, complete with back pressure valve and filter, Art.No. 131014\*

\* Also available in any other lengths.

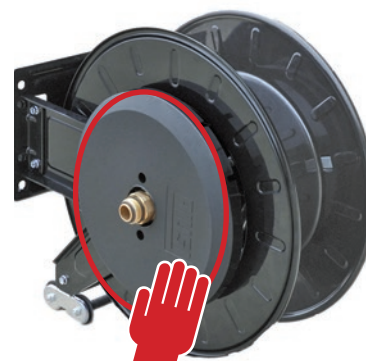
## Hose Reels for Diesel and Oil Supply Hoses

The advanced design of the hose reel reduces the pressure loss and makes for easy handling. It can be used for high performance pumps as well.

- ▶ Hose diameter 3/4" or 1"
- ▶ reduced pressure loss
- ▶ protective latch mechanism to prevent accidental contact with the hands
- ▶ adjustable arm for easy positioning
- ▶ rotating support plate facilitates hose reel installation in different positions (on option)



rotating support plate



hose reel with hand protection

## Technical details

Hose Reels for Diesel / Oil Supply Hoses	On-roll length	hose included	Pressure max.	Art.No.
Hose reel automatic 3/4"	for 8 m hose	on option	10 bar	P750080
Hose reel automatic 3/4"	for 8 m hose	✓	10 bar	P750090
Hose reel automatic 3/4"	for 14 m hose	on option	10 bar	P750000
Hose reel automatic 1"	for 10 m hose	on option	10 bar	P750010
Hose reel automatic 1"	for 10 m hose	✓	10 bar	P750030
Rotating support plate	for 8 m hose			P17317
Rotating support plate	for 10 and 14 m hose			P16279
fixed support for hose reel	for 8 m hose			P17316
fixed support for hose reel	for 10 and 14 m hose			P16298
connecting hose 1 meter for hose reel	-			P16367