



# AdBlue® Technology



# AdBlue® Electrical Diaphragm Pumps

Diaphragm pumps with integrated bypass, on-off switch

Our electric diaphragm pumps stand for first-class electrical machinery and pump construction. They are designed for extreme performance in continuous operation and long life. Our choice of materials does not only make them durable, but also light-weight. The motor and switch housing is made of durable die-cast aluminum. The electric motor is encapsulated so that a condensate-water-formation-short-circuit due to extreme temperature fluctuations can largely be prevented. The design provides for easy maintenance and uncomplicated parts replacement.



**25 280**

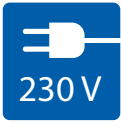


**25 281**



**25 282**

Connection cable, length	2,8 m	3 m	3 m
Connection on suction side	G 1" male	G 1" male	G 1" male
Connection on pressure side	G 1" male	G 1" male	G 1" male
<b>Hydraulic Data</b>			
Pump Design	Diaphragm pump, self-priming	Diaphragm pump, self-priming	Diaphragm pump, self-priming
Flow Rate at free discharge	35 l/min	30 l/min	30 l/min
Suction Height	<b>3 m</b>	<b>3 m</b>	<b>3 m</b>
Delivery Pressure	up to 1,7 bar	up to 1,7 bar	up to 1,7 bar
Fluids	AdBlue®, Water	AdBlue®, Water	AdBlue®, Water
<b>Engine Data</b>			
Insulation Class	F	F	F
Maximum Temperature Limit	155 °C	–	–
Tension	<b>230 V</b>	<b>12 V DC</b>	<b>24 V DC</b>
Frequency	50 Hz	–	–
Current Consumption	1,5 A	18 A	9 A
Power	360 W	220 W	220 W
Thermal Protection	self-resetting	–	–
Fuse	–	25 A	25 A
Duty Cycle	<b>Continuous operation – a real endurance runner</b>	<b>max. 180 min</b>	<b>max. 180 min</b>
Runtime at closed nozzle	max. 2 min	max. 2 min	max. 2 min
Number of Revolutions	2800 rpm	2800 rpm	2800 rpm
Shape	IMB 3	IMB 5	IMB 5
Protection	IP 54	IP 66	IP 66
<b>Materials of Wetted Parts</b>			
Diaphragm and seals	EPDM / FKM	EPDM / FKM	EPDM / FKM
Pump casing dimensions	PA 6 GF 30	PA 6 GF 30	PA 6 GF 30
Dimensions L x W x H	310 x 180 x 160 mm	315 x 185 x 130 mm	315 x 185 x 130 mm
Weight	6,86 kg	5,8 kg	5,8 kg



### AdBlue® Electrical Diaphragm Pump

35 l/min-230 V-1~AC-50 Hz

25 280

A true endurance runner for stationary installation with a power connector. Robust, powerful and durable even under heavy strain.



### AdBlue® Electrical Diaphragm Pump

30 l/min-7.9 gpm



25 281 – 12 V  
25 282 – 24 V

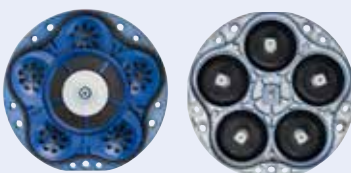


Pump housing can be positioned freely in all 90° positions. Endurance of 3 hours - at open valve

These two models are designed for all areas where power supply is available by battery only, such as on construction sites, in agriculture or on boats. They can be used both in mobile and stationary settings.



### Spare Parts



80 864  
Spare membranes, pre-assembled



80 888  
Spare fittings

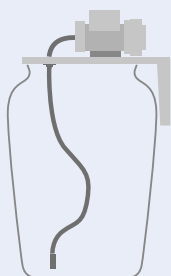


80 889  
Spare O-rings

# Pump Sets

All sets are delivered with appropriate suction and discharge hoses. For further details, please refer to the article number at [www.pressol.com](http://www.pressol.com)

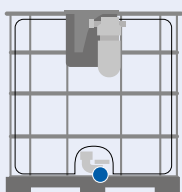
## Applications



Pump sets for barrel assembly, mounted on base plate



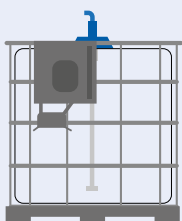
Pump sets for barrel assembly



Pump sets, mounted on base plate, IBC mounting



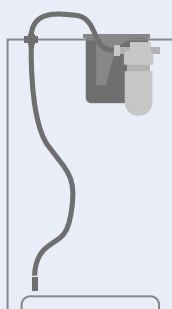
Adapter M 64 x 4



Pump sets with filter, IBC mounting



SEC adapter



Pump sets, mounted on base plate, tank mounting



Pump	Equipment			Application
	ZVMUD	ZVAUD	ZVAUD / EBZDU	
				
<b>Pump sets for barrel assembly</b>				
				
35 l/min-230 V-1	25 233 001	25 234 001	25 235 001	per Suction hose
<b>Pump sets for barrel assembly, mounted on base plate</b>				
				
35 l/min-230 V-1	25 223 001	25 224 001	25 225 001	per Suction hose
<b>Pump sets, mounted on base plate, IBC mounting</b>				
				
35 l/min-230 V-1~AC	25 229	25 230	25 231	IBC via adapter M 64 x 4
				
30 l/min-7.9 gpm-12 V-DC	25 249	25 250	25 251	IBC via adapter M 64 x 4
30 l/min-7.9 gpm-24 V-DC	25 269	25 270	25 271	IBC via adapter M 64 x 4
				
35 l/min-230 V-1~AC	25 226 001	25 227 001	25 228 001	IBC via SEC adapter
				
30 l/min-7.9 gpm-12 V-DC	25 246 001	25 247 001	25 248 001	IBC via SEC adapter
30 l/min-7.9 gpm-24 V-DC	25 266 001	25 267 001	25 268 001	IBC via SEC adapter
<b>Pump sets with filter, IBC mounting</b>				
				
35 l/min-230 V-1~AC	-	-	25 236	IBC via SEC adapter
35 l/min-230 V-1~AC	-	-	25 238	IBC via adapter M 64 x 4
<b>Pump sets, mounted on base plate, tank mounting</b>				
				
35 l/min-230 V-1~AC	25 272	25 273	25 274	Tank mounting set

# AdBlue® Pumps PREMAxx

Our proven PREMAxx is a light and compact barrel pump for 200- to 1000-liter containers that is easy to assemble. It is very quiet and guarantees up to 30 minutes of continuous operation.



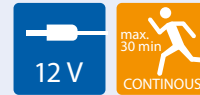
## 23 739

**PREMAxx 52 l/min for AdBlue®**  
230 V-1~AC-50 Hz-EUS



## 23 760

**PREMAxx 38 l/min for AdBlue®**  
12 V-DC-Battery clips



### Specifications

- Barrel screw joint, G 2" male
- Siphon protection acc. to WHG (Water Resources Act), constantly effective
- Motor with thermal protection switch, self-resetting
- Illuminated on-off switch
- High quality sales packaging

### Special Features

- Insensitive to smaller contaminants in the fluid
- The liquid column can be built up via manual pumping
- Can be pumped manually in case of power failure
- Only usable as barrel pump

### 23 739

### 23 760




Connection cable, length	Euro plug, 2 m	2 m, with battery clips
Connection container	G 2" a, drum adapter	G 2" a, drum adapter
Connection on suction side	G 1" male	G 1" male
Connection on pressure side	G 1" male	G 1" male
<b>Hydraulic data</b>		
Pump Design	axial gear	axial gear
Flow Rate at free discharge	52 l/min	38 l/min
Suction height	up to 2,5 m	up to 2,5 m
Discharge height	max. 15 m	max. 15 m
Fluids	AdBlue®	AdBlue®
<b>Engine data</b>		
Voltage	<b>230 V</b>	<b>12 V DC</b>
Frequency	50 Hz	
Current Consumption	1,8 A	14 A
Power	0,32 kW	0,18 kW
Thermal Protection	self-resetting	self-resetting
Duty cycle	<b>30 min</b>	<b>30 min</b>
Rotation speed at 0,5 bar counterpressure	7500 rpm	7500 rpm
Shape	IMB 5	IMB 5
Protection	IP 34	IP 34
Material of pump housing and pump	PA 6 GF 30	PA 6 GF 30
Dimensions Pump (L × W × H)	90 × 120 × 300 mm	90 × 120 × 300 mm
Weight	2,5 kg	2,5 kg

# PREMAxx Sets for Urea

Art. No.	Description	Equipment			
<b>23 740</b> 	<b>- PREMAxx 52 l/min</b> - Manual nozzle with swivel - SEC adapter for IBC - Discharge hose, 4 m				
<b>23 741</b> 	<b>- PREMAxx 52 l/min</b> - Manual nozzle with swivel - Discharge hose, 4 m - Suction hose, 1,6 m				
<b>23 742</b> 	<b>- PREMAxx 52 l/min</b> - Manual nozzle with swivel - Digital inline-meter - Discharge hose, 4 m - Suction hose, 1,6 m				
<b>23 761</b> 	<b>- PREMAxx 38 l/min</b> - Manual nozzle with swivel - Discharge hose, 4 m - Suction hose, 1,6 m				



# Drum- and Rotary Pumps

	Art. No.	Description	Suction pipe length	Flow rate	Material
	<b>13 004</b>	Barrel pump with 2 m discharge hose	1000 mm	50 l/min	Polypropylene, Viton®
	<b>13 004 950</b>	Barrel pump with mechanical nozzle with swivel joint for AdBlue® and 6 m discharge hose	1000 mm	50 l/min	Polypropylene, Viton®
	<b>13 065</b>	Rotary Pump	1050 mm	22 l/min	Polypropylene, Viton®

# Nozzles



	Art. No.	Description	Durchflussmenge / empfohlene Anwendung	Connection thread	Material
	<b>23 171 960</b>	Automatic nozzle for AdBlue® with swivel joint	60 l/min	G 3/4" fem	Stainless steel
	<b>23 171 965</b>	Automatic nozzle for AdBlue® with swivel joint	10 l/min	G 3/4" fem	Stainless steel
	<b>23 171 961</b>	Automatic nozzle for AdBlue® with swivel joint	5-15 l/min	G 1" fem	Polypropylene
	<b>23 171 836</b>	Automatic nozzle for AdBlue® ISO 22241-5	5-10 l/min	R 1" a	Aluminium nickel plated
	<b>23 161 878</b>	Mechanical nozzle for AdBlue® with swivel joint	80 l/min	G 1" fem	Polypropylene

# Volume Meter / Pulser



Art. No.	Description	Type / Model	Display	Connection thread	Material
<b>23 295 870</b>	Inline Meter	Turbine wheel	digital	G 1" fem-G 1" fem	Stainless steel
<b>23 295 871</b>	Inline Meter	Turbine wheel	digital	G 1" fem-G 1" fem	Stainless steel, with fittings
<b>23 190 870</b>	NUMERlxx <sup>3</sup> for AdBlue®	Oval gear meter	digital	G 1" fem-G 1" fem	Stainless steel
<b>23 823</b>	Pulser for AdBlue®	Oval gear meter	-	G 1" fem-G 1" fem	Stainless steel
<b>19 690</b>	Remote Display for oval gear meter		digital		Aluminium
<b>23 287 870</b>	Inline Meter for AdBlue®	Impeller	digital	G 1" fem-G 1" male	POM
<b>23 829 870</b>	AdBlue® Pulser	Ovalrad	digital	G 1" fem-G 1" fem	Stainless steel



# FMS – FluidManagementSystem for AdBlue®



Use our FMS, a professional management system for fluid delivery. There are already numerous applications in the areas of workshops, agriculture and industry and it can be used for diesel and Urea.

The system allows you to manage two tanks with one delivery point each. Users, vehicles, delivery quantities and fill levels can be monitored and evaluated. The user is identified via PIN and / or iButton.

The user-friendly software runs under the operating systems Windows, Mac OS and Linux. All data can be set up on the PC and transferred to the FMS via SD card. This provides space for the storage of thousands of refueling operations.

The data of refueling operations can be easily read on a PC and exported to other applications for analysis, a USB adapter for SD memory card is included.

## 23 499

- Fluid Management System in aluminum housing
- SD card (84 023)
- SD card reader for USB port (84 235)
- Software and manual on CD-ROM
- 7 iButtons. Black for Users (5 pcs), red for Service (1 pc) and green for Supervisor (1pc)

# Hose Reels for AdBlue®

for wall and floor mounting



**29 821**  
open  
10 bar, DN 16, 6 m



**29 841**  
encased  
swivel joint, outside  
10 bar, DN 16, 6 m

- All metal parts are phosphatized, undercoated and painted
- The high quality surface treatment of all steel parts ensures high corrosion resistance
- Axle and all parts in contact with media are made of stainless steel
- The dimensions chosen by our engineers guarantee an almost unlimited service life
- The material combination axis / bearing and the spring unit are maintenance-free
- Easy assembly because the weight of the hose reel does not need to be supported while mounting.
- All swivel joints are ball bearing based
- High pressure in the supply system does not influence the power needed to rotate the drum.
- The hose can be engaged per every 1/4 turn

# Mobile AdBlue® Refueling Systems

## Battery Operation

Expand your workshop inventory with an easy-to-use mobile helper. Wherever passenger and small commercial vehicles must be refueled with AdBlue®, the stable trolley with its smooth-running wheels is on the spot in no time.

Easily adjust the flow rate via the practical dashboard, and be reassured that nothing can go wrong during refueling. The handy nozzle, with ISO 22241-5 compliant filler neck, is equipped with overfill and misfuelling protection.

The powerful battery ensures mobile freedom for approximately 1,000 liters displacement.



ISO 22241-5  
compliant

**25 352 836**  
for 200- and 220-liter containers

Cart load: 200 kg · Weight: 85 kg  
Dimensions (L × W × H):  
1000 × 800 × 1080 mm  
Flow rate: 4,5–9 l/min continuously  
adjustable at free discharge

**25 353 836**  
with 60-liter plastic container

Cart load: 60 kg · Weight: 62 kg  
Dimensions (L × W × H):  
780 × 550 × 1080 mm  
Flow rate: 5–10 l/min  
continuously adjustable  
at free discharge

**25 353**  
60 l-EMP  
230 V, 6-12 l/min

also available as a variant with plugs for GB and CH

**25 352**  
200 l-EMP,  
230 V, 10-20 l/min

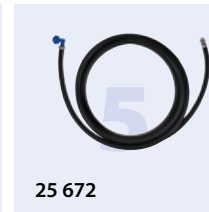
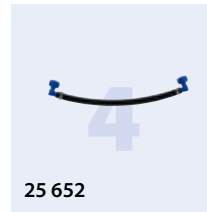
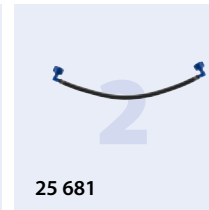
also available as a variant with plugs for GB and CH

**25 352 010**  
200 l-EMP,  
230 V, 6-12 l/min

also available as a variant with plugs for GB and CH

# Mobile AdBlue® Refueling Systems

Cable connection



**25 337 760**  
200 l  
EMP-10 l/min-230V

1 2 3

**25 338 770**  
200 l  
EMP-10 l/min-230V

1 2 3

**25 337 836**  
200 l  
EMP-14 l/min-230V

1 2 3

**25 338 836**  
200 l  
EMP-14 l/min-230V

1 2 3

**25 334 760**  
200 l  
EMP-35 l/min-230V

4 5 6

**25 335 770**  
200 l  
EMP-35 l/min-230V

4 5 6

## Pictograms / Abbreviations

**Refueling**  
of Car / Truck / Heavy Machinery

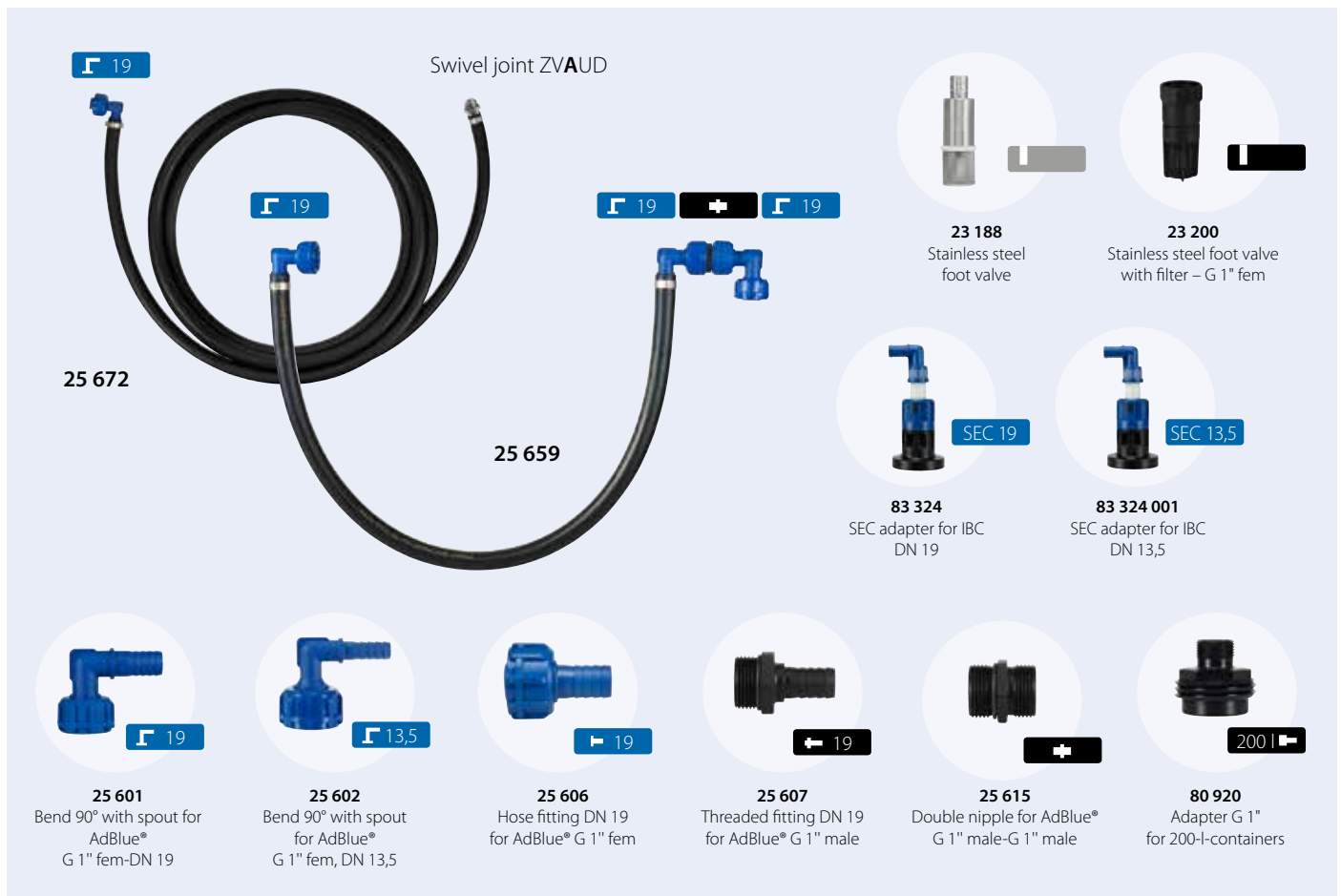
**Power**  
Battery / Cables

**Nozzle with swivel joint**  
mechanical / automatic / automatic, ISO Compliant

**In-line meter**  
mechanical / digital

EMP = electric diaphragm pump  
ZVAUD = automatic nozzle for Urea, with swivel joint

# Suction Hose Sets and Connections



		Ø female	length in m	Connection I	Connection II
80 911	AdBlue® hose, by the meter	13			
80 371 878	AdBlue® hose, by the meter	19			
25 650	AdBlue® suction hose	19	1	200 l   ← 19	← 19
25 680	AdBlue® suction hose	13,5	1	200 l   ← 13,5	← 13,5
25 682	AdBlue® suction hose	13,5	2	SEC 13,5	↵ 13,5
25 657	AdBlue® suction hose	19	1	SEC 19	↵ 19
25 658	AdBlue® suction hose	19	1	SEC 19	→ 19
25 662	UAdBlue® suction hose for PREMAxx	19	1,6	↵	
25 656	AdBlue® suction hose	19	2,3	200 l   ← 19	↵ ← 19
25 663	AdBlue® suction hose	19	2	↵ ← 19	↵ 19
25 651	AdBlue® connection hose	19	0,5	↵ 19	→ 19
25 652	AdBlue® connection hose	19	0,5	↵ 19	↵ 19
25 654	AdBlue® connection hose	19	2	↵ 19	↵ 19
25 655	AdBlue® connection hose	19	1,1	↵ 19	→ 19
25 659	AdBlue® connection hose	19	1,5	↵ 19   + ↵ 19	↵ 19
25 681	AdBlue® connection hose	13,5	0,5	↵ 13,5	↵ 13,5
25 671	AdBlue® discharge hose	19	6	Swivel joint ZVMUD	↵ 19
25 672	AdBlue® discharge hose	19	6	Swivel joint ZVAUD	↵ 19
25 673	AdBlue® discharge hose	19	6	Swivel joint ZVAUD	→ 19
25 674	AdBlue® discharge hose	19	4	Swivel joint ZVMUD	↵ 19
25 675	AdBlue® discharge hose	19	4	Swivel joint ZVAUD	→ 19
25 683	AdBlue® discharge hose	13,5	4	Swivel joint ZVAUD 10 l	↵ 19
25 684	AdBlue® discharge hose	13,5	4	Swivel joint ZVAUD 3-12 l	↵ 19
25 685	AdBlue® discharge hose	13,5	4	Swivel joint ZVAUD 3-12 l	→ 19

# Accessories



**25 600**  
Bend 90° with 2 x  
union nut for AdBlue®  
G 1" fem, G 1" fem



**25 605**  
Hose fitting DN 13,5  
for AdBlue®, G 1" fem,  
Ø 9,5 mm



**25 608**  
Threaded fitting DN 13,5  
for AdBlue®, G 1" male



**25 610**  
Connection fitting for  
AdBlue®  
G 1" fem – G 1" fem



**25 611**  
Manifold connection long  
for AdBlue®  
G 1" fem – G 1" male



**25 612**  
Manifold connection  
short for AdBlue®  
G 1" fem – G 1" male



**45 150**  
Venting valve, G 2" male  
for AdBlue®  
for mobile tanks



**45 150 950**  
Venting valve-G 2" male for  
AdBlue®  
for stationary tanks



**80 875**  
IBC adapter S60x6  
with hose fitting DN 19



**83 462**  
Barrel screw coupling  
for AdBlue®, G 2" male



**13 080 390**  
Adapter, G 2" fem  
and M 56 x 4 a



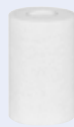
**80 920 100**  
Adapter  
G 2" male-G 1" fem-G 1" male  
for Urea Station



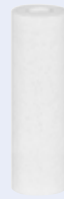
**25 180**  
AdBlue®-filter unit  
filter length 92 mm



**25 181**  
AdBlue®-filter unit  
filter length 156 mm



**25 185**  
AdBlue® filtering candle  
filter length 92 mm



**25 186**  
AdBlue® filtering candle  
filter length 156 mm



**25 620**  
Accessory kit,  
fittings for AdBlue®



**25 690**  
Suction tube for  
60 l containers



**83 396**  
Suction tube for IBC  
compatible with  
SEC adapter



**25 320**  
IBC AdBlue® extraction kit  
with nozzle and accessories



**25 695**  
60 l container for AdBlue®

# Stationary Tanks for AdBlue®

## Urea Station

230 V, 35 l/min

- Wall thickness up to 7 mm
- Diffusion and UV-resistant
- Filling valve G2" with lever ball valve
- Road tanker connection (Dry-Break DBC-1000-AB), automatic close (84 005)
- Ventilation valve (45 150 950)
- Pneumatic level indicator, in % (83 846)
- Electric overfill protection in accordance with WHG, with approval Z-65.11-18 (19 412)
- Optical and visual leakage alarm for oil/water with approval Z-65.40-339 (19 406)
- Stainless steel foot valve with filter (19 890)
- Lockable door using 2 padlocks
- Diaphragm pump with integrated bypass, mounted on a stainless steel plate (25 210)
- On/Off switch
- Double walled tank
- Discharge hose, 6 m



	Dimensions				
<b>1500 l</b>	1720 × 1240 × 2400 mm	<b>26 716</b>	<b>26 717</b>	<b>26 726</b>	<b>26 727</b>
<b>2000 l</b>	1860 × 1460 × 2400 mm	<b>26 736</b>	<b>26 737</b>	<b>26 746</b>	<b>26 747</b>
<b>5000 l</b>	2400 × 2000 × 2400 mm	<b>26 756</b>	<b>26 757</b>	<b>26 766</b>	<b>26 767</b>

## ROTHABlue for AdBlue®

### 26 851

Compact system-Urea-1500 l with suction set-pump plate-level indicator, 1690 × 813 × 1876 mm

- Venting valve G 2" male
- Stainless steel-check valve
- Plastic adapter G 2" male, 20 mm male, 20 mm male 90°
- Pump plate from stainless steel
- Bunded tank

#### Special Features:

- Delivered pre-assembled
- Developed for mounting with pump sets



Sample application with set 25 274

# Mobile tanks for AdBlue®

## mobIBLUE®

- Single-walled tank
- Universal fixation loops for integral shackles
- Lockable protection cap
- Filler tube with AdBlue® filter/magnet unit and cover
- Ventilation valve (45150)
- Diaphragm pump, selfpriming
- On/Off switch
- Discharge hose 4 m, DN 19
- Foot valve with filter (23 188)



26 911



26 921



							with tank accessories only
	35 l/min	30 l/min	30 l/min	35 l/min	30 l/min	30 l/min	
<b>250 l</b>	26 907	26 908	26 909	26 917	26 918	26 919	45 317
	26 927	26 928	26 929	26 937	26 938	26 939	
<b>450 l</b>	26 900	26 901	26 902	26 910	26 911	26 912	45 319
	26 920	26 921	26 922	26 930	26 931	26 932	

## AdBlue® Canister

from PE with flexible spout



### Pictograms / Abbreviations

Digital inline-meter for AdBlue®

FMS FluidManagementSystem

Heating

Mechanical nozzle for AdBlue® with swivel joint

Automatical nozzle for AdBlue® with swivel joint

	AdBlue® canister made of PE, blue with flexible spout	Army canister for AdBlue® and water, PE, white, transparent with flexible spout
<b>5 Liter</b>	21 141 870	
<b>10 Liter</b>	21 143 870	
<b>20 Liter</b>	21 147 870	21 127 870



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