



Urea Technology



Urea 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

Hydraulic Data

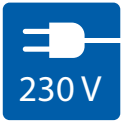
Pump Design	Diaphragm pump, self-priming	Diaphragm pump, self-priming	Diaphragm pump, self-priming
Flow Rate at free discharge	35 l/min	30 l/min	30 l/min
Suction Height	3 m	3 m	3 m
Delivery Pressure	up to 1,7 bar	up to 1,7 bar	up to 1,7 bar
Fluids	AdBlue®, Water	AdBlue®, Water	AdBlue®, Water

Engine Data

Insulation Class	F	F	F
Maximum Temperature Limit	155 °C	–	–
Tension	230 V	12 V DC	24 V DC
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	Continuous operation – a real endurance runner	max. 180 min	max. 180 min
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

Materials of Wetted Parts

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



Urea 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.



Urea Electrical Diaphragm Pump

30 l/min-7.9 gpm



25 281 – 12 V
25 282 – 24 V

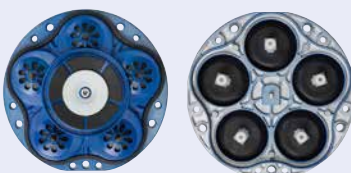


Pump housing can be positioned freely in all 90° positions. Endurance of 3 hours - at open valve

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

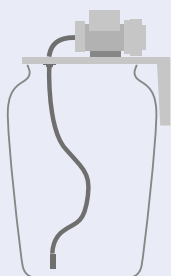


80 889
Spare O-rings

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

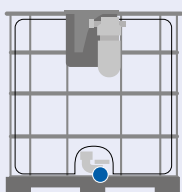
Applications



Pump sets for barrel assembly, mounted on base plate



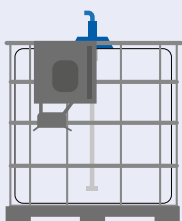
Pump sets for barrel assembly



Pump sets, mounted on base plate, IBC mounting



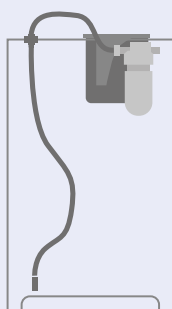
Adapter M 64 x 4



Pump sets with filter, IBC mounting



SEC adapter



Pump sets, mounted on base plate, tank mounting



Pump	Equipment			Application
	ZVMUD 	ZVAUD 	ZVAUD / EBZDU 	
Pump sets for barrel assembly				
				
35 l/min-230 V-1	25 233 001	25 234 001	25 235 001	per Suction hose
Pump sets for barrel assembly, mounted on base plate				
				
35 l/min-230 V-1	25 223 001	25 224 001	25 225 001	per Suction hose
Pump sets, mounted on base plate, IBC mounting				
				
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
Pump sets with filter, IBC mounting				
				
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
Pump sets, mounted on base plate, tank mounting				
				
35 l/min-230 V-1~AC	25 272	25 273	25 274	Tank mounting set

Urea 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.



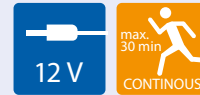
23 739

PREMAxx 52 l/min for Urea
230 V-1~AC-50 Hz-EUS



23 760

PREMAxx 38 l/min for Urea
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
Hydraulic data		
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®
Engine data		
Voltage	230 V	12 V DC
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	30 min	30 min
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 x W x H)	90 x 120 x 300 mm	90 x 120 x 300 mm
Weight	2,5 kg	2,5 kg

PREMAxx Sets for Urea

Art. No.	Description	Equipment			
23 740 	- PREMAxx 52 l/min - Manual nozzle with swivel - SEC adapter for IBC - Discharge hose, 4 m				
23 741 	- PREMAxx 52 l/min - Manual nozzle with swivel - Discharge hose, 4 m - Suction hose, 1,6 m				
23 742 	- PREMAxx 52 l/min - Manual nozzle with swivel - Digital inline-meter - Discharge hose, 4 m - Suction hose, 1,6 m				
23 761 	- PREMAxx 38 l/min - 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
	13 004	Barrel pump	1000 mm	50 l/min	Polypropylene, Viton®
	13 004 950	Barrel pump with mechanical nozzle with swivel joint for Urea and 6 m discharge hose	1000 mm	50 l/min	Polypropylene, Viton®
	13 065	Rotary Pump	1050 mm	22 l/min	Polypropylene, Viton®

Nozzles



23 171 960

23 171 965

23 171 961

23 171 836

23 161 878

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

Volume Meter / Pulser



23 295 870

23 295 871

23 190 870

23 823

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



19 690

23 287 870

23 829 870

FMS – FluidManagementSystem for Urea



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 Urea

for wall and floor mounting



29 821

open
10 bar, DN 16, 8 m



29 841

encased
swivel joint, outside
10 bar, DN 16, 8 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 Urea 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

25 353 836
with 60-liter plastic container

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

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

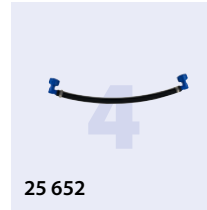
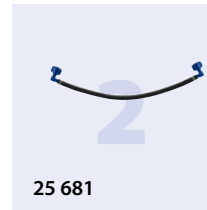
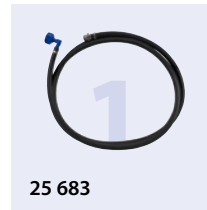
also available as a variant with plugs
for GB and CH

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

also available as a variant with plugs
for GB and CH

Mobile Urea Refueling Systems

Cable connection



25 338 770

200 l
EMP-10 l/min-230V



25 337 760

200 l
EMP-10 l/min-230 V



25 335 770

200 l
EMP-35 l/min-230 V



25 334 760

200 l
EMP-35 l/min-230V



23 295 871



ZVAUD

Pictograms / Abbreviations



Refueling
of Car / Truck / Heavy Machinery



Power
Battery / Cables



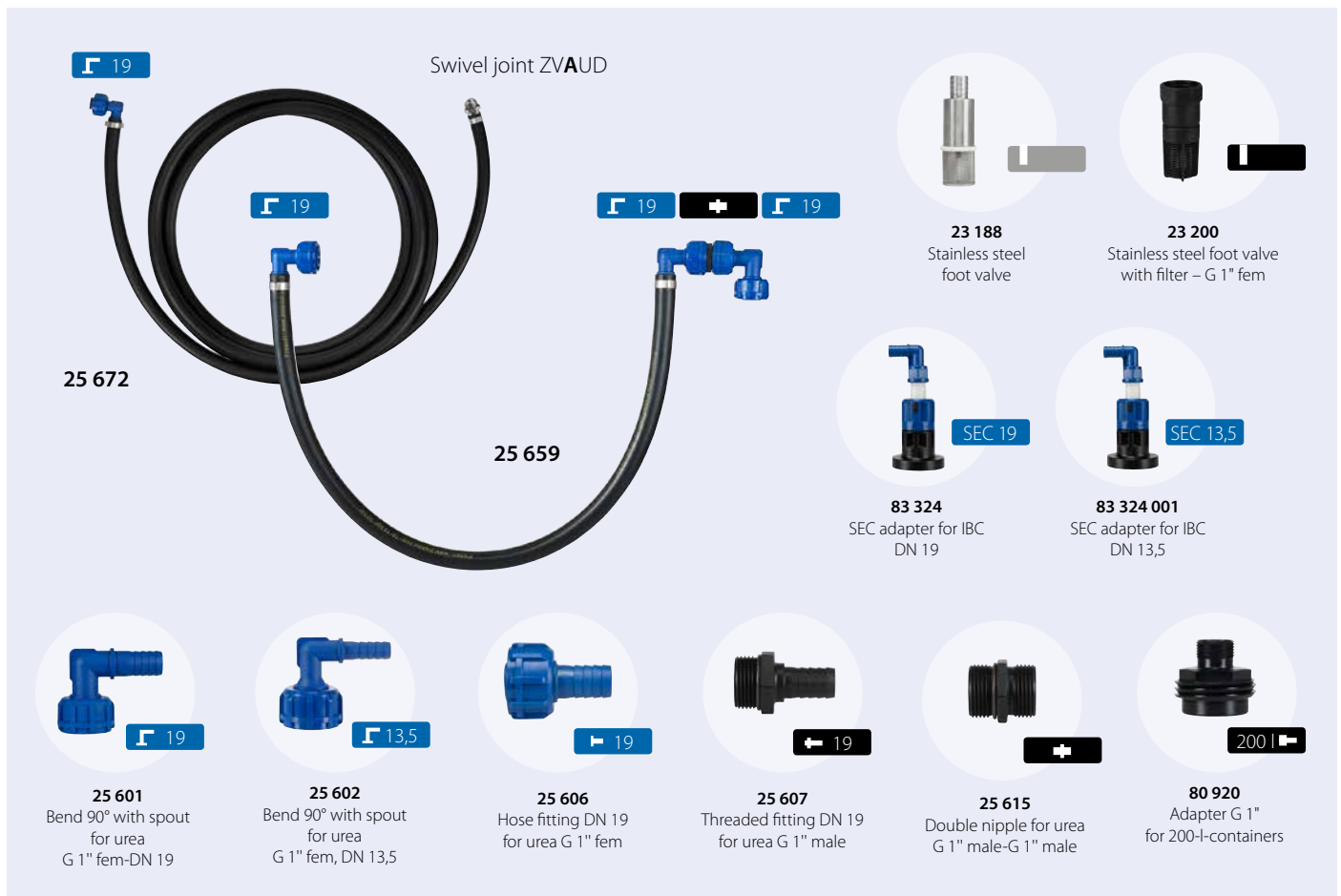
Nozzle with swivel joint
mechanical / automatic / automatic, ISO Compliant



In-line meter
mechanical / digital

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

Suction Hose Sets and Connections



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

Accessories



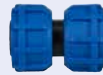
25 600
Bend 90° with 2 x
union nut for urea
G 1" fem, G 1" fem



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



25 608
Threaded fitting DN 13,5
for urea, G 1" male



25 610
Connection fitting for urea
G 1" fem – G 1" fem



25 611
Manifold connection long
for urea
G 1" fem – G 1" male



25 612
Manifold connection
short for urea
G 1" fem – G 1" male



45 150
Venting valve, G 2" male
for urea
for mobile tanks



45 150 950
Venting valve-G 2" male
for urea
for stationary tanks



80 875
IBC adapter S60x6
with hose fitting DN 19



83 462
Barrel screw coupling
for urea, 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
Urea-filter unit
filter length 92 mm



25 181
Urea-filter unit
filter length 156 mm



25 185
Urea filtering candle
filter length 92 mm



25 186
Urea filtering candle
filter length 156 mm



25 620
Accessory kit,
fittings for urea



25 690
Suction tube for
60l containers



83 396
Suction tube for IBC
compatible with
SEC adapter



25 320
IBC urea extraction kit
with nozzle and accessories



25 695
60l container for Urea





Stationary Tanks for Urea

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

ROTHABlue for Urea

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 Urea

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	
250 l	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	
450 l	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	

Urea Canister

from PE with flexible spout



Pictograms / Abbreviations

- Digital inline-meter for Urea
- FMS FluidManagementSystem
- Heating
- Mechanical nozzle for Urea with swivel joint
- Automatical nozzle for Urea with swivel joint

	Urea canister made of PE, blue with flexible spout	Army canister for urea and water, PE, white, transparent with flexible spout
5 Liter	21 141 870	
10 Liter	21 143 870	
20 Liter	21 147 870	21 127 870



90.894.932.A402

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