

# Flexible storage and handling – with ProMinent

The right products for storage and transfer of liquid chemicals

ProMinent®

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## Storage and transfer

### Storage tanks

Our range also includes WHG-compliant storage tanks with a high level of resistance to many chemicals. And if spatial conditions dictate particular formats, we can also offer panel welded PE/PP tanks precisely produced to customer specifications with capacities ranging from 0.5 to 25 m<sup>3</sup>.

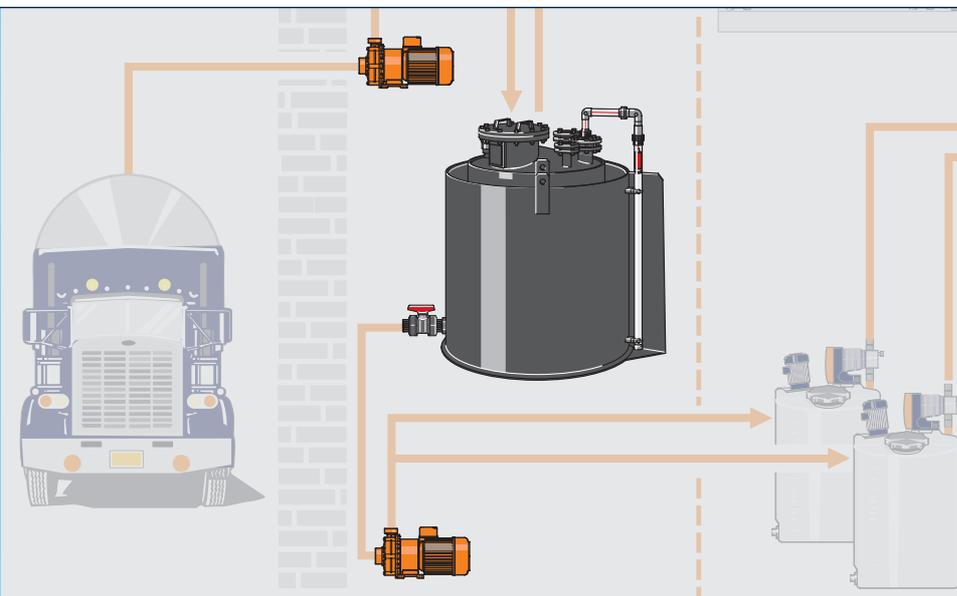


### Dosing tanks

Our dosing tanks are made of UV-stable polyethylene or polypropylene with threaded neck openings for metering pumps and stirring equipment. These sturdy tanks offer capacities of 35 to 1,000 l.



# Safe storage of chemicals on site



Storage tanks and dosing tanks precisely produced to customer specifications, and matching transfer pumps, guarantee safe decentralised storage and appropriate provision of process chemicals on site.



## Transfer pumps

The von Taine® transfer pumps carry up to 23,000 l/h fluid chemical safely from tank to tank with no leakage. ProMinent® Spectra progressive cavity pumps are designed specifically for metering polymer solutions - and are also for use with oil-based solutions. With no electrical components whatsoever, the ProMinent® Duodos is an air-driven dual-diaphragm pump transferring up to 10,000 l/h. The DULCO®Trans barrel pumps are ideal for bottling and decanting fluids.

Further information:

[www.prominent.com/tanks](http://www.prominent.com/tanks)

[www.prominent.com/transfer\\_pumps](http://www.prominent.com/transfer_pumps)



## Storage tanks

# Safe and dependable storage



In many countries there are statutory requirements for dealing with chemicals which endanger the environment. These requirements also affect the construction of storage tanks. ProMinent has the appropriate manufacturing approvals.

- Design in accordance with DVS2205 (design calculations for thermoplastic containers and apparatus), conformance with EN 10573, also available on request with Building Supervisory Authority general approval in accordance with WHG §19 (German Water Resources Act)
- Standardised tanks and drip pans from 500 to 12,000 l for internal or external use
- Customised tanks and drip pans with volumes up to 25 m<sup>3</sup>
- Accessories: filling panel, tank heating, visual and electronic liquid level monitoring, exhaust air scrubbers, etc.

Storage tanks	
Usable capacity	500 to 12,000 l
Outside diameter	860 to 2,250 mm
Total height	1,500 to 3,900 mm
Weight empty	50 to 700 kg



Further information:  
[www.prominent.com/tanks](http://www.prominent.com/tanks)

## Dosing tanks

# Always available



- PE containers manufactured using the rotational moulding process, available in volumes from 35 to 1000 l for environmentally-friendly storage of liquid chemicals
- Scales in litres and gallons
- Simple installation of ProMinent® metering pumps, suction lances and agitators
- Available in various colours
- Screw cap (plug cap for 35 l tanks)
- Integral sintered threaded bushes for mounting ProMinent® dosing pumps and agitators
- Extensive range of accessories such as agitators, dosing measuring equipment, drain valves etc.

### PE dosing tanks

Usable capacity (litres)	Diameter (mm)	Height (mm)
35	350	485
60	410	590
100	500	760
140	500	860
250	650	1,100
500	820	1,190
1,000	1,070	1,260

### PE drip pans

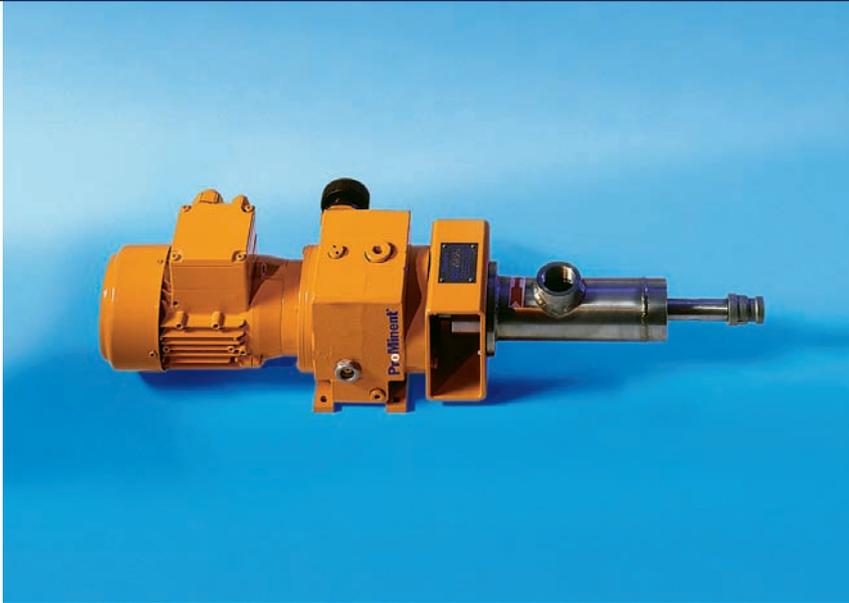
Usable capacity (litres)	Diameter (mm)	Height (mm)
35	565	220
60	680	270
100	802	320
140	811	370
250	917	520
500	1,155	670
1,000*	1,280	980

\* 1000 litre drip pans only available in welded construction in natural and black colours



Further information:  
[www.prominent.com/tanks](http://www.prominent.com/tanks)

# Transferring polyelectrolyte



- Transfer of polyelectrolytes
- Pulsation-reduced transfer
- Speed-proportional transfer flow
- Reversible transfer direction
- Available with different drive variants with manual speed control or for operation with frequency converter

#### With manually adjustable gearbox

Type	Pump capacity at 3 bar	Max. back pressure	Capacity
Spectra 12/2 H	0.6 - 2.2 l/h	12 bar	0.37 kW
Spectra 12/13 H	2.4 - 13.2 l/h	12 bar	0.37 kW
Spectra 12/30 H	6.5 - 30.0 l/h	12 bar	0.37 kW
Spectra 12/105 H	20 - 105 l/h	12 bar	0.37 kW
Spectra 6/300 H	50 - 300 l/h	6 bar	0.55 kW
Spectra 6/600 H	110 - 600 l/h	6 bar	0.55 kW
Spectra 5/1400 H	300 - 1,400 l/h	5 bar	0.75 kW
Spectra 3/3000 H	600 - 3,000 l/h	3 bar	1.10 kW
Spectra 3/6000 H	1,000 - 6,000 l/h	3 bar	1.50 kW
Spectra 3/12000 H	2,000 - 12,000 l/h	3 bar	2.20 kW

#### With variable gear motor and external fan for operation with frequency converter

Type	Pump capacity at 3 bar	Max. back pressure	Capacity
Spectra 12/2 F	0.1 - 2.4 l/h	12 bar	0.37 kW
Spectra 12/13 F	0.6 - 13.2 l/h	12 bar	0.37 kW
Spectra 12/33 F	2.4 - 33.0 l/h	12 bar	0.37 kW
Spectra 12/100 F	5 - 100 l/h	12 bar	0.37 kW
Spectra 6/300 F	20 - 300 l/h	6 bar	0.37 kW
Spectra 6/650 F	40 - 650 l/h	6 bar	0.55 kW
Spectra 5/1400 F	50 - 1,400 l/h	5 bar	0.75 kW
Spectra 3/3000 F	100 - 3,000 l/h	3 bar	0.75 kW
Spectra 3/6500 F	100 - 6,500 l/h	3 bar	1.50 kW
Spectra 3/12000 F	400 - 12,000 l/h	3 bar	2.20 kW

#### With variable gear motor for operation with frequency converter

Type	Pump capacity at 3 bar	Max. back pressure	Capacity
Spectra 12/2 G	0.4 - 2.4 l/h	12 bar	0.37 kW
Spectra 12/13 G	1.5 - 13.2 l/h	12 bar	0.37 kW
Spectra 12/33 G	4.2 - 33.0 l/h	12 bar	0.37 kW
Spectra 12/100 G	10 - 100 l/h	12 bar	0.37 kW
Spectra 6/300 G	50 - 300 l/h	6 bar	0.37 kW
Spectra 6/650 G	80 - 650 l/h	6 bar	0.55 kW
Spectra 5/1400 G	150 - 1,400 l/h	5 bar	0.75 kW
Spectra 3/3000 G	350 - 3,000 l/h	3 bar	0.75 kW
Spectra 3/6500 G	800 - 6,500 l/h	3 bar	1.50 kW
Spectra 3/12000 G	2,000 - 12,000 l/h	3 bar	2.20 kW



Further information:

[www.prominent.com/transfer\\_pumps](http://www.prominent.com/transfer_pumps)

Magnetically-coupled centrifugal pumps von Taine®

## Leakage-free transfer



- Magnetically-coupled centrifugal pumps for leakage-free transfer of liquid chemicals
- Environmentally-friendly, as power transmission from motor to impeller is by magnetic coupling: loss of chemicals is impossible
- Transfer up to 22,500 l/h and up to a lift of 23.5 m
- PP or PVDF pump head material

### PP version

Type	Pump capacity max.	Discharge lift max.	Motor rating	Voltage/frequency
0502 PP	1,800 l/h	4.5 m	60.00 W	1-/230 V/50 Hz
0807 PP	6,600 l/h	7.9 m	0.25 kW	3-/400 V/50 Hz
1010 PP	9,600 l/h	10.0 m	0.37 kW	3-/400 V/50 Hz
1313 PP	13,200 l/h	13.2 m	0.65 kW	3-/400 V/50 Hz
1820 PP	19,500 l/h	18.1 m	1.10 kW	3-/400 V/50 Hz
2323 PP	22,500 l/h	23.5 m	1.50 kW	3-/400 V/50 Hz

### PVDF version

Type	Pump capacity max.	Discharge lift max.	Motor rating	Voltage/frequency
0502 PVDF	1,800 l/h	4.5 m	60.00 W	1-/230 V/50 Hz
0807 PVDF	6,600 l/h	7.9 m	0.25 kW	3-/400 V/50 Hz
1010 PVDF	9,600 l/h	10.0 m	0.37 kW	3-/400 V/50 Hz
1313 PVDF	13,200 l/h	13.2 m	0.65 kW	3-/400 V/50 Hz
1820 PVDF	19,500 l/h	18.1 m	1.10 kW	3-/400 V/50 Hz
2323 PVDF	22,500 l/h	23.5 m	1.50 kW	3-/400 V/50 Hz



Further information:  
[www.prominent.com/transfer\\_pumps](http://www.prominent.com/transfer_pumps)

Air-driven diaphragm pump Duodos

# Transfer without electricity



- Air-driven diaphragm pump with no electrical components
- Transfer of viscous, shear-sensitive and outgassing media
- Self-priming
- Safe for dry running
- Capacity up to 6,700 l/h
- Maximum back pressure of 7 bar
- Capacity can be regulated via compressed air
- PP or PVDF body material

## Air-driven diaphragm pump Duodos

Type	Pump capacity max.	Air consumption
Duodos 10	650 l/h	0.5 - 11 m <sup>3</sup> /h
Duodos 15	2,000 l/h	3.5 - 27 m <sup>3</sup> /h
Duodos 20	3,000 l/h	7.0 - 34 m <sup>3</sup> /h
Duodos 25	6,700 l/h	8.5 - 77 m <sup>3</sup> /h



Further information:  
[www.prominent.com/transfer\\_pumps](http://www.prominent.com/transfer_pumps)

Barrel pump DULCO®Trans

# Simple transferring



- Barrel pump for transferring low-viscosity media and acids and alkalis
- For bottling, transfer and draining of liquids
- Suitable for cans, barrels and containers
- Discharge hose and pistol grip nozzle included in standard delivery package
- PP body material

#### Barrel pump DULCO®Trans

Type	Pump capacity max.	Discharge lift max.
Dulco®Trans 25/700 PP	1,200 l/h	5.0 m
Dulco®Trans 40/1000 PP	3,000 l/h	7.5 m
Dulco®Trans 50/1200 PP	4,200 l/h	12.0 m



Further information:  
[www.prominent.com/transfer\\_pumps](http://www.prominent.com/transfer_pumps)

Reference: Waterworks in Kronstadt

# Chemical metering in waterworks



**"We are able to carry out the water treatment at the highest safety level with practically no staff, thanks to the maintenance-free ProMinent® solution."**

Grigori Bass, Managing Director SENS O.O.O., St. Petersburg

The waterworks in Kronstadt, with 36,000 m<sup>3</sup> potable water capacity, is the smallest of a series of waterworks surrounding the Russian metropolis of St. Petersburg. Since 2003 these waterworks have been converted from disinfection with chlorine gas to the far safer sodium hypochlorite. ProMinent partnered the waterworks during the transition.

## Challenge

- Conception and implementation of a total solution for fully-automated drinking water disinfection with sodium hypochlorite
- Redundancy of all system parts for maximum fail-safety
- Design for standard and peak raw water load
- To use ProMinent® tanks, transfer pumps, metering pumps, sensors, controllers and accessories

## Solution

- Conception of a modular chemical fluid handling system, that means storage and transfer of the chemicals, controlled metering including backup-systems, measurement and control systems and automatic process control, process monitoring and graphical process display
- Extremely accurate, safe and redundant disinfection
- Chemicals to be stored only in non-hazardous concentrations
- No operating personnel required because the system operates fully automatically and practically without maintenance
- Problem-free commissioning and minimum coordination effort within the project since all single-sourced

## Customer benefits



Further information:  
[www.prominent.com/references](http://www.prominent.com/references)

## World-wide contact



ProMinent is at home in more than 100 countries of the world. This guarantees world-wide availability of the products and short distances to the customer. We offer you the same high quality standard in products and services worldwide. For you at your location: experience and know-how in water treatment and chemical fluid handling are available world-wide.

**For detailed information, please visit our website [www.prominent.com](http://www.prominent.com)**

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