SYR®

The SYR product solutions for modern drinking water management

Professional technology for standard-conforming safety

Drinking water valves: from leakage protection to water conditioning

Mature products
for top drinking water

At SYR, we develop strategies and product solutions that put holistic technological water expertise into practice. Our products help to make the drinking water supply in building services cleaner, safer, more economical - and more convenient.

Our product design is always state-of-the-art and updated on a continuous basis. The SYR CONNECT system brings smart intelligence to domestic installations with valves that can be operated and controlled using the SYR app.

Of course, all SYR valves meet the current standards and regulations and are tested and approved: Brand quality you can trust.

Smart safety in domestic installations
The SYR CONNECT system

The proven, top quality technology of SYR valves combined with smart control electronics: this is SYR CONNECT, our easy-to-install, clear communication network. It can be extended by further CONNECT devices at any time, without additional cables. Thanks to internet-supported swarm intelligence (ISI), the CONNECT products can be connected to each other and controlled centrally.

The new SYR CONNECT products feature built-in wireless connections. Of course, the SYR CONNECT valves and devices also perform reliably without an active internet connection – however, you can only access all parameters and functions via the SYR app in online mode. The app allows you to manage, control and monitor all SYR CONNECT devices. If they are connected to the internet, users are notified via push message and email. Product information and instructions can always be viewed and downloaded.

Identify products from the
SYR CONNECT system with this icon.
They are internet-compatible
and controllable via the SYR app.

Leakage protection | Water treatment | Hygiene control | Heating system monitoring

SYR CONNECT

The SYR CONNECT system has been awarded the Smart Home Award and has received the SySS security certificate.

3

Ticking time bomb – Pipeline water damage is imminent

According to the Gesamtverband der Deutschen Versicherungswirtschaft e.V. (German Insurance Association), there is one tap water damage every 30 seconds in Germany on average due to leaking connections, porous seals, leaking potable water heaters or corroded copper pipes including burst pipes. Water damage cannot be completely prevented – but its consequences can be reduced to a minimum.

Water damage often occurs in secret and is only discovered once the moisture has already spread over a large area and health-threatening mould growth is rampant. We at SYR offer internet-enabled leakage detection systems to protect you from the expensive consequences of water damage. Thanks to the built-in Wi-Fi, our valves can be connected and controlled via smartphone and tablet using the SYR app.

Connected leakage protection
SafeTech, SafeTech+ and SafeFloor

High-quality mechanical engineering, intelligent technology and convenient handling: The SYR team for leakage protection with the SafeTech, Safe-Tech+ and SafeFloor floor sensor reliably protects you from expensive consequential damage caused by water leaks, moisture and frost.

Besides reliable leakage protection, the latest generation of SYR leakage protection devices excels with its water management qualities. The SafeTech and SafeTech+ Connect adjust their safety levels to the individual water consumption and determine the water hardness - an important feature because limescale can be very dangerous for domestic installations. The SafeTech+ Connect also offers a connection option for the DRUFI drinking water filter.

The SafeFloor Connect floor sensor is the perfect complement to your leakage protection devices. It is placed where water leakage may occur or room temperature or air humidity values can reach critical levels.

Each individual is unique – thus standard values do not always fit. The SYR leakage protection system "gets to know" the household's respective water consumption (quantity and time) and adjusts safety levels accordingly: for individual safety without loss of comfort.

SafeTech and SafeTech+ Connect determine the water hardness so that you can react in case of high limescale levels. Because soft water offers more quality of life and comfort - and protects the installation from dangerous limescale deposits.

We at SYR offer high quality water softening systems for various requirements and needs.

Specifications on page 20

SafeFloor Connect floor sensor
Smart sensor with rapid alert function

Detects water leaks
The SafeFloor Connect is located at places of potential water leaks and wherever critical values can occur. When it detects wetness, it notifies water damage: An LED on the device flashes, a warning sound goes off and you will receive a push notification on your mobile device. If the SafeTech Connect has also been mounted and connected, the water supply will be cut off immediately.

Detects risks of frost
The SafeFloor Connect monitors the room temperature. If critical values are reached that could cause pipes to freeze and burst, you will be informed via push notification.

Detects critical humidity levels
Excessive humidity levels can lead to mould formation; if the air is too dry, it may irritate the airways: If the regular monitoring shows critical levels over an extended period of time, the SafeFloor Connect will also send a message.

With the SYR app, the leakage protection system can be set and controlled entirely according to your personal safety needs.

SafeTech and SafeTech+ Connect
Leakage protection + water management

Individual security

In the self-learning phase, the SafeTech Connect and SafeTech+ Connect register your consumption habits and adjust the settings accordingly so that you can enjoy optimum safety without any loss in terms of comfort. The SafeTech checks water volumes per draw-off operation several times a day and determines a value for your presence and one for your absence. You may also set a time span during which water is allowed to run. All settings can be retrieved and modified via the SYR app.

Detects pipe damage, interrupts supply of water

In the event of a pipe burst, large amounts of water leak out immediately. The SafeTech and SafeTech+ Connect detect unusually high water flows that occur within very short time spans and isolate the pipe system. The time till shut-off depends on your respective device setting. We therefore recommend that you install an additional SafeFloor Connect at critical locations. Irrespective of the selected setting, it will detect local leaks and notifies the leakage protection device thereof – which then shuts off the water supply!

Detects microleakage

Even the smallest amounts of water that leak unnoticed over months can cause costly damage to walls, floors and ceilings. The two SafeTech models detect such microleakage thanks to a special technology, even below the preset thresholds. In case of increased derogations, the devices notify the presence of potential microleakage.

Determines water hardness

The SafeTech and SafeTech+ Connect automatically determine water hardness. Excessive lime levels in the water cause trouble: Limescale occurs in household appliances, persistent and annoying stains on glass and tiles materialise, pipes clog up. Now it's time to react - installing a SYR water softening system prevents excessive limescale deposits from causing damage to the installation and increasing energy costs.

Benefits of the SYR CONNECT system

Example: If the LEX Plus 10 Connect Water Softener needs water for regeneration, the connected SafeTech Connect leakage protection releases the corresponding amount.
Example: The LEX Plus 10 SL with built-in leakage protection shuts off the water supply when the connected SafeFloor Connect floor sensor reports a water leakage.

SafeTech Connect
SafeTech+ Connect

- Built-in Wi-Fi
- Intelligent self-learning phase
- Control/monitoring via SYR app
- Push notifications/emails in online mode
- Monitoring during holidays and special absence function
- Can be connected to the SafeFloor Connect floor sensors
- Emergency unlocking function
- In case of power failure, battery-driven emergency operation
- Determines range of water hardness (conductivity), measures water pressure and water temperature
- SafeTech+ Connect: can be combined with the SYR DRUFI to form a leakage protection filter unit

Specifications on page 20

The SafeTech+ Connect is installed directly downstream of the water meter, onto the SYR universal flange.
The DRUFI drinking water filter can be flanged onto the SafeTech+ at the front: The compact leakage protection/filter unit is ready.

Noticeable **beauty.**
Tangible **softness.** Visible **shine.**

The quality of drinking water is not affected by the degree of hardness, but in everyday life it makes a big difference whether the drinking water is soft or hard. Lime deposits reduce the life of hot water appliances (heat transfer surfaces and heat generators) and increase costs: a limescale layer of a mere millimetre can increase energy consumption by more than 10 percent. The pipes of your drinking water installation become increasingly clogged – with the risk of complete blockage.

Soft water is tangible and increases the well-being. Softened water is the essential basis for healthy skin and shiny hair. Experience noticeably soft water up-close, with the SYR Water Softeners.

SYR offers sophisticated solutions for soft water, lower energy costs and protection against limescale, precisely matched to the water of the respective region.

The new soft in softening
NeoSoft Connect by SYR

The smart SYR water softening system NeoSoft Connect meets even the highest demands, including effective descaling based on the proven ion exchange process and 24-hour soft water; it comes in a clear, convincing look; with an ultra-modern 7" touchscreen for convenient handling; with built-in Wi-Fi and app control. Supplied as a completely pre-assembled unit for trouble-free and time-saving installation. With menu-guided, simple commissioning.

Effective softening technology: The NeoSoft Connect works as a dual system and ensures that soft water is reliably available even during the regeneration phase.

Automatic adjustment of the operating mode: The built-in turbine of the NeoSoft continuously measures the water consumption so that the intelligent system can always optimally adjust the operating mode to the water consumption. Whether ECO, STANDARD or POWER – the mode currently active is displayed in green on the touchscreen.

NeoSoft Connect
soft water system

- Built-in Wi-Fi
- Control/monitoring via SYR app
- Push notifications/emails in online mode
- Simple commissioning
- Protects the domestic installation from limescale
- 7" touchscreen for easy control
- Automatic selection of the operating mode
- Automatic salt level detection
- Pre-assembled and ready for connection
- Fits on SYR universal flange DN 20 to 32
- Connection set for the NeoDos Connect dosing pump included
- Sandwich flange for SafeTech+ Connect and/or DRUFI+

Specifications on page 21

9

LEX Plus 10 S Connect
The SPACE-SAVING model

+ **Sandwich-type connecting fitting with blending valve for connecting the DRUFI**
- Wi-Fi connection, built-in Wi-Fi
- Control and monitoring via SYR
- Push notifications/emails in online mode
- Semi-automatic commissioning
- Protects the domestic installation from limescale
- User-friendly operation via touch display
- Modern, reduced salt consumption and illuminated salt tank
- Flexible installation options
- Fits on SYR universal flange DN 20 to 32
- Including tundish

LEX Plus 10 S Connect with connection to the DRUFI drinking water filter

The SPACE-SAVING model LEX Plus 10 S Connect with its sandwich-type connecting fitting with blending valve is a simple way to integrate the DRUFI drinking water filter into the installation.

If a drinking water filter from the DRUFI system is already installed, the space-saving LEX Plus 10 S Connect is the ideal choice.

Assembly is simple: remove the DRUFI, flange on the connecting fitting built-in blending valve, re-mount the DRUFI and connect the hoses of the LEX Plus 10 S Connect.

The result is a highly functional and compact filter and water softening unit – the LEX Plus 10 S Connect.

The DRUFI is not included in the scope of delivery of the LEX Plus 10 S Connect.

*The DRUFI and the DRUFI+
can be connected as both drinking water
filters fit on the SYR universal flange.*

LEX Plus 10 SL Connect with connection to the DRUFI and leakage protection module

The COMFORT model LEX Plus 10 SL Connect combines a sandwich-type connecting fitting for the DRUFI with an additional leakage protection module. The smart system thus sees to the continuous supply with soft water and also protects you against costly consequences of potential water damage.

If your LEX Plus 10 SL Connect requires water for regeneration, it will notify the built-in leakage protection that will release the appropriate amount – no need for you to intervene. The SafeFloor Connect floor sensor can also be connected to the system so that areas that require more intensive monitoring can be additionally protected. If the smart sensor detects a water leak, it reports this to the leakage protection system of the SL, which shuts off the water supply immediately.

The two devices are connected and controlled via the SYR app.

LEX Plus 10 SL Connect
The COMFORT model

+ Sandwich-type connecting fitting with blending valve for connecting the DRUFI
+ Leakage protection module
· LAN connection, built-in Wi-Fi
· Control/monitoring via SYR app
· Push notifications/emails in online mode
· Semi-automatic commissioning
· Protects the domestic installation from limescale
· User-friendly operation via touch display
· Modern, reduced salt consumption and illuminated salt container
· Flexible mounting options
· Fits on SYR universal flange DN 20 to 32
· Including tundish

11

When using a water softening system, we recommend a combination with the dosing pump NeoDos Connect to avoid an increased risk of corrosion.

Mineral **dosing solutions** against rust and lime

Our water suppliers reliably deliver drinking water of the highest quality right up to our homes. However, depending on the material used, undesirable reactions can occur in the installation: Corrosion and limescale in the water cause pitting in the pipes, damage household appliances, clog pipes and increase energy consumption. With the combination of the dosing pump NeoDos Connect and the dosing solutions DL 1 and DL 2, SYR offers effective solutions that comply with the legislation on additives and the drinking water directive.

The DL dosing solutions contain phosphates and silicate combinations designed to protect drinking water systems. The special phosphates prevent corrosion and the formation of rusty water and stabilise the water hardness. The solutions are approved drinking water additives. Phosphate is an essential mineral for the human body and occurs naturally in many foods. The phosphate used in the solutions complies with the strict specifications of DIN/EN and is of high purity.

Dosing pump NeoDos Connect
and dosing solutions DL 1 and DL 2

With its electronic fine-tuned control, the SYR NeoDos Connect releases a combination of minerals to the water that stabilises the hardness of the water and creates a protective layer in the pipes. This prevents the formation of deposits and corrosion. Thanks to the special turbine technology, the dosage is adjusted to perfectly match the individual water consumption. The NeoDos Connect logs and stores all dosing data. These can be retrieved at any time via the SYR app, exported in html format and saved to a USB flash drive that can be connected to the USB port of the dosing pump.

The dosing solutions DL 1 and DL 2 are approved drinking water additives and comply with the requirements of the legislation on foods and additives and the drinking water directive. Having been developed on the basis of numerous scientific studies, DL 1 and DL 2 are already successfully used by German drinking water suppliers.

Dosing pump NeoDos Connect

- Electronic fine-tuned control for releasing the dosing solutions into the drinking water installation
- Built-in Wi-Fi
- Control/monitoring via SYR app
- Operation online or offline (statistics and logs available)
- USB port (connection with USB flash drive for storage possible)
- Online push notifications
- Mounting in DN 20, 25 and 32 (connection set as accessory)
- Stand-Alone or in combination with NeoSoft Connect (connection set in scope of delivery) or the LEX Plus 10 Connect series (connection set as accessory)

Specifications on page 25

Adults have a daily requirement of phosphate of 700 mg. On average, people consume 1,092 mg of phosphate per day with dairy products and approx. 1,068 mg with meat and sausage. By comparison: If phosphate is added to the drinking water by means of a dosage, only 4 mg are taken in daily.

The flushing station for **hygienically perfect drinking water**

The HygBox Connect from SYR with built-in Wi-Fi is an uncomplicated and inexpensive solution for its intended use in drinking water installations. This compact valve can be used for washbasins and laundry rooms, kitchen sinks as well as for commercial and small industrial applications. The HygBox Connect is easy to install, monitors the installation area and activates flushing as needed based on the set stagnation time or water temperature.

The HygBox Connect can be set and controlled via the built-in Wi-Fi using the SYR app. This is where major parameters such as flush intervals, number and time of actual flushes, the upper and lower temperature limit values, flushing intervals due to stagnation and the maximum flush volume can be set. Thanks to the connection within the SYR CONNECT system, it is possible to document and control the drinking water installation with all its built-in flushing stations at all times.

HygBox Connect flushing station
for quick on-site assembly

The operator is responsible for compliance with the inten-
ded use of the drinking water installation. The SYR HygBox
Connect offers a quick, reliable and hygienically perfect solu-
tion, especially for existing buildings. With the HygBox, both
the operators responsible as well as the the residents are on
the safe side: the proliferation of undesirable microbes is pre-
vented effectively and the requirements under the drinking
water directive are met at all times.

You can mount the SYR HygBox Connect on any standard
washbasin or directly upstream of draw-off points – as a single
unit or as a duo for hot and cold water. This compact valve in-
cludes a built-in water meter, monitors the water temperature
and activates a safety hygiene flush as required. The stagna-
tion time until flushing can be set individually. The flushing
logs can be exported in html format and saved to a USB flash
drive that can be connected to the USB-C port of the HygBox.

HygBox Connect

- Measures temperature, flow rate, pressure
- Activates flushing (as required via time of stagnation or water temperature)
- Built-in Wi-Fi
- Control/monitoring via SYR app
- Optional online or offline operation (statistics and logs can be called are retrievable)
- USB-C port (USB flash drive connection possible for data storage)
- Push notifications/emails in online mode
- Suitable for new buildings and for retrofitting existing buildings
- Easy to install (wall bracket)
- Discharge hoses (push-in connection)
- Battery-powered, mains-powered (optional)
- Installation as single unit or as a duo (hot/cold)

Specifications on page 26

15

Effectively filter and
protect domestic installations

Our drinking water is clean. Water companies observing the strict limit values and ensuring the high potable water quality see to it every single day.

However, on the way from the water supplier to your home, rust particles, metal chips, sand and other foreign substances from the pipework may get into the water. Foreign substances that may damage the domestic water installation. Therefore, drinking water filters according to DIN 1988/Part 200 are mandatory.

The SYR filter technology removes dirt particles, provides reliable purity, thus protecting the entire installation. By the way: We are the ones with the DRUFI – the filter system proven hundreds of thousands of times worldwide.

The basis for your water management
The DRUFI+ drinking water filter system

Award-winning design and clever features – this is the SYR system DRUFI+. Safe water pressure, clean water without dirt particles and reduced water consumption thanks to individually adjustable water-saving pressure settings. The DRUFI has proven itself hundreds of thousands of times worldwide and sets standards in filter technology.

Our DRUFI+ range offers intelligent features such as high flow rate, a powerful backwash system and ergonomically designed operating controls. The filter models are mounted in no time and offer perfect service comfort.

Four models for every installation situation and requirement

DRUFI+ FF   Cartridge filter
DRUFI+ DFF   Cartridge filter with pressure reducing valve
DRUFI+ FR   Backwash filter
DRUFI+ DFR   Backwash filter with pressure reducing valve

DRUFI+ drinking water filter

- Prevents pitting and corrosion
- Award-winning design
- High flow rate
- Highly efficient backwash system
- Yellow operating controls
- Convenient sliding ring as service reminder
- UV-protection against microbial growth
- Accessories: automatic backwash system RSA, no tools required for retrofitting
- DVGW-tested safety
- Fits on the SYR flange system

Specifications on page 26

The DRUFI+ and the SafeTech+ Connect: a compact filter/ leakage protection unit

The DRUFI+ and the automatic backwash system RSA (can be retrofitted without tools): a convenient fully-automatic filter

The DRUFI+ and the water softening units LEX Plus 10 S and SL Connect: installation-friendly and space-saving units

Specifications on page 27

The powerful one: DRUFI+ max
For major challenges, from DN 32 to DN 50

With the DRUFI+ max, the SYR pressure reducing valve/filter combination has also found its way into multi-family homes and the industry. The DRUFI+ max is our power program and comes in connection sizes DN 32 to DN 50 and with an admissible operating pressure of up to 16 bar.

Powerful filter type in two versions

The DRUFI+ max is available in two powerful versions: as the DRUFI+ max DFR – pressure reducing valve with backwash filter – with an adjustable outlet pressure of 1.5 bar to 6 bar as well as with pressure gauges 25 bar and 10 bar; and as the DRUFI+ max FR – backwash filter without pressure reducing valve.

The two „Max" versions are easy to install anywhere: with the universal flange max in sizes DN 32, DN 40 and DN 50. The flange provides a connection for an inlet pressure gauge.

Service-friendly detail
You can set and read the time
for the next backwash on the
date display.

Convenient retrofitting
The DRUFI+ max can be upgraded
into a fully-automatic filter with
the RSA backwashing system
available as an accessory.
Easy and fast assembly,
no tools required.

Robust backwash filter SYR DUO
Starter model of the SYR filter program

The compact, backwash filter SYR DUO comes with two benefits in one valve: top, reliable SYR quality and an exemplary price-performance ratio. Thus, the DUO is a high-quality alternative to the cartridge filter.

The robust DUO backwash filter dependably protects the domestic installation from foreign particles and guarantees reliably clean water. The DUO is delivered completely pre-assembled with the SYR connection flange, so that the installation of the compact valves is easy. With the 360 degree rotatable flange, the SYR DUO works in all mounting positions. The SYR DUO is available as the FR (manual backwash filter) and as the DFR (manual backwash filter with pressure reducing valve).

The special cascade-shaped filter technology keeps the filter cup small and the valve compact. The DUO is thus suitable for the protection of single appliances such as dishwashers and drinking water heaters.

DUO DFR and FR

- Prevention of malfunctions caused by particles from the pipework
- Perfectly clean water
- Fulfilment of DIN standards
- Protection of the installation against damage due to pressure variations
- Protection against pitting and corrosion
- Flange rotatable by 360°
- Click-fix-system for fast and flexible pressure adjustment
- Easy connection thanks to the rotatable flange system
- DVGW-tested safety
- Flange included

Specifications on page 27

The Click-fix-System
The DFR version with pressure reducing valve features the clever „click-fix-system":
The pressure reducing valve can be easily removed, adjusted and clicked back in. The DUO DFR is supplied with a pressure gauge.

Practical advantage
You can set the date for the next backwash due on the small blue wheel on top of the valve.

SPECIFICATIONS

Please find the specifications for the preceding and other products on the next pages.
If you have any further questions or require brochures, please contact us –
we are partners of trade.

LEAKAGE PROTECTION

SafeTech Connect Leakage Protection

Min. operating pressure	2 bar
Max. operating pressure	16 bar
Max. operating temperature	60 °C
Medium	drinking water
Mounting position	any
Flow rate DN 20 DN 25 DN 32	6.4 m^3/h at Δp 1.0 bar 7.3 m^3/h at Δp 1.0 bar 7.7 m^3/h at Δp 1.0 bar
Voltage power supply	12V DC
Battery	1 x 9V Block (6LR61)
Standard radio protocol	WLAN 2,4 GHz WPA/WPA2
Network support	TCPIP/IPv4
Protection class	IPX3
Serial no. DN 20	2422.20.200
DN 25	2422.25.200
DN 32	2422.32.200

SafeFloor Connect floor sensor

Standard radio protocol	WLAN 2,4 GHz / WPA/WPA2
Battery	2 x AA 1,5 Mignon
Network support	TCPIP/IPv4
Protection class	IPX 4
Serial no.	2422.00.200

SafeTech+ Connect

Max. operating pressure	10 bar
Max. operating temperature	60 °C
Ambient temperature	10 to 60 °C
Room temperature	5 to 50 °C
Medium	drinking water
Flow rate DN 20 DN 25 DN 32	5.2 m^3/h at Δp 1.0 bar 5.7 m^3/h at Δp 1.0 bar 6.0 m^3/h at Δp 1.0 bar
Voltage power supply	12V DC
Battery	1 x 9V Block (6LR61)
Standard radio protocol	WLAN 2,4 GHz WPA/WPA2
Network support	TCPIP/IPv4
Serial no.	2422.00.010

WATER SOFTENING SYSTEM

NeoSoft 5000 Connect

Operating pressure		min. 2 bar, max. 8 bar
Nominal pressure		max. 10 bar
Operating temperature		min. 5 °C, max. 30 °C
Ambient temperature		min. 5 °C, max. 25 °C
Medium		drinking water
Storage salt tank		35 kg
Resin quantity		2 x 5 litres
Nominal capacity	Eco Standard Power	2 x 1 mol/m^3 2 x 1.8 mol/m^3 2 x 2.7 mol/m^3
Salt consumption per regeneration		0.3 – 1.2 kg
Power supply		230V / 50 Hz / 6 W
Nominal flow DIN 14743 DIN 19636 from 20 °dH to 8 °dH		3 m^3/h at Δp 1.0 bar 4 m^3/h at Δp 1.0 bar
Pressure loss at nominal flow		1.0 bar
Max. number of residential units*		1 to 8
Werks-Nr.		5000.00.000

* Short-term flow rate at which the ion exchanger can be operated.
   The nominal flow indicated may decrease in case of high water hardness.

LEX Plus 10 S Connect

Operating pressure	min. 2 bar, max. 8 bar
Operating temperature	min. 5 °C, max. 30 °C
Ambient temperature	min. 5 °C, max. 25 °C
Medium	drinking water
Power supply	230V / 50 Hz / 6 W
Nominal capacity	3.9 mol/m^3
Nominal flow DIN 14743 DIN 19636 from 20 °dH to 8 °dH	1.5 m^3/h 2.3 m^3/h
Pressure loss at nominal flow	1.0 bar
Serial no.	1500.01.011

LEX Plus 10 SL Connect

Operating pressure	min. 2 bar, max. 8 bar
Operating temperature	min. 5 °C, max. 30 °C
Ambient temperature	min. 5 °C, max. 25 °C
Medium	drinking water
Power supply	230V / 50 Hz / 6 W
Nominal capacity	3.9 mol/m^3
Nominal flow DIN 14743 DIN 19636 from 20 °dH to 8 °dH	1.5 m^3/h 2.3 m^3/h
Pressure loss at nominal flow	1.0 bar
Werks-Nr.	1500.01.012

LEX 1500 Connect Single 10 to 30

Operating pressure		min. 2 bar, max. 8 bar		
Operating temperature		min. 5 °C, max. 30 °C		
Ambient temperature		min. 5 °C, max. 25 °C		
Medium		drinking water		
Power supply		230V / 50 Hz / 6 W		
Flow rate* at Δp 1.0 bar Volume exchanger resin (in m^3)		LEX 10 2.1 m^3/h 3.5 mol	LEX 20 2.5 m^3/h 7 mol	LEX 30 2.8 m^3/h 10.5 mol
Max. number of residential units**		3	5	8
Serial no.	DN 10	1500.00.010		
	DN 20	1500.00.020		
	DN 30	1500.00.030		

LEX 1500 Connect Single 40 to 100

Operating pressure		min. 2 bar, max. 8 bar			
Operating temperature		min. 5 °C, max. 30 °C			
Ambient temperature		min. 5 °C, max. 25 °C			
Medium		drinking water			
Power supply		230V / 50 Hz / 6 W			
Flow rate* at Δp 1.0 bar Volume exchanger resin (in m^3)		LEX 40 3 m^3/h 14 mol	LEX 60 4,5 m^3/h 21 mol	LEX 80 5 m^3/h 28 mol	LEX 100 5.5 m^3/h 35 mol
Max. number of residential units**		15	20	25	35
Serial no.	DN 40	1500.00.040			
	DN 60	1500.00.060			
	DN 80	1500.00.080			
	DN 100	1500.00.100			

LEX 1500 Connect Duplex 10 to 30

Operating pressure		min. 2 bar, max. 8 bar		
Operating temperature		min. 5 °C, max. 30 °C		
Ambient temperature		min. 5 °C, max. 25 °C		
Medium		drinking water		
Power supply		230V / 50 Hz / 6 W		
Flow rate* at Δp 1.0 bar Volume exchanger resin (in m^3) Connection size		LEX 10 4.2 m^3/h 7 mol DN 32	LEX 20 5.0 m^3/h 14 mol DN 32	LEX 30 5.6 m^3/h 21 mol DN 32
Max. number of residential units**		6	12	20
Serial no.	DN 10	1500.02.010		
	DN 20	1500.02.020		
	DN 30	1500.02.030		

LEX 1500 Connect Connect Duplex 40 to 100

Operating pressure	min. 2 bar, max. 8 bar			
Operating temperature	min. 5 °C, max. 30 °C			
Ambient temperature	min. 5 °C, max. 25 °C			
Medium	drinking water			
Power supply	230V / 50 Hz / 6 W			
Flow rate* at Δp 1.0 b Volume exchanger resin (in m³) Connection size	LEX 40 6 m³/h 28 mol DN 32	LEX 60 9 m³/h 42 mol DN 40	LEX 80 10 m³/h 56 mol DN 50	LEX 100 11 m³/h 70 mol DN 50
Max. number of residential units**	25	40	55	65
Serial no. DN 40	1500.02.040			
DN 60	1500.02.060			
DN 80	1500.02.080			
DN 100	1500.02.100			

LEX 1500 Connect Alternating 10 to 30

Operating pressure	min. 2 bar, max. 8 bar		
Operating temperature	min. 5 °C, max. 30 °C		
Ambient temperature	min. 5 °C, max. 25 °C		
Medium	drinking water		
Power supply	230V / 50 Hz / 6 W		
Flow rate* at Δp 1.0 bar Volume exchanger resin (in m³) Connection size	LEX 10 2.1 m³/h 3.5 mol DN 32	LEX 20 2.5 m³/h 7 mol DN 32	LEX 30 2.8 m³/h 10.5 mol DN 32
Max. number of residential units**	3	6	9
Serial no. DN 10	1500.00.012		
DN 20	1500.00.022		
DN 30	1500.00.032		

LEX 1500 Connect Alternating 40 to 100

Operating pressure	min. 2 bar, max. 8 bar			
Operating temperature	min. 5 °C, max. 30 °C			
Ambient temperature	min. 5 °C, max. 25 °C			
Medium	drinking water			
Power supply	230V / 50 Hz / 6 W			
Flow rate* at Δp 1.0 b Volume exchanger resin (in m³) Connection size	LEX 40 3 m³/h 14 mol DN 32	LEX 60 4.5 m³/h 21 mol DN 40	LEX 80 5 m³/h 28 mol DN 50	LEX 100 5.5 m³/h 35 mol DN 50
Max. number of residential units**	15	20	25	35
Serial no. DN 40	1500.00.042			
DN 60	1500.00.062			
DN 80	1500.02.082			
DN 100	1500.02.102			

* *Short-term flow rate at which the ion exchanger can be operated.*
   The nominal flow indicated may decrease in case of high water hardness.

** *A residential unit consists of two persons with a softening process of 20°dH to 8°dH. The specification of the max. number of residential units only serves as a rough indication for the selection of a softening system and does not replace a professional design based on the SYR investigation sheet Water treatment.*

LEX T 1500 Connect Triple

Operating pressure	min. 2 bar, max. 8 bar				
Operating temperature	min. 5 °C, max. 30 °C				
Ambient temperature	min. 5 °C, max. 25 °C				
Medium	drinking water				
Power supply	230V / 50 Hz / 6 W				
Flow rate* at Δp 1.0 bar Volume exchanger resin (in m^3) Connection size	LEX T1 5.0 m^3/h 14 mol DN 32	LEX T2 5.6 m^3/h 21 mol DN 32	LEX T3 9.0 m^3/h 42 mol DN 40	LEX T4 10.4 m^3/h 63 mol DN 50	LEX T5 12.5 m^3/h 87. 5 mol DN 50
Max. number of residential units**	15	40	65	100	150
Serial no. T1 (3 x 20 litres)	1500.00.015				
T2 (3 x 30 litres)	1500.00.025				
T3 (3 x 60 litres)	1500.00.035				
T4 (3 x 90 litres)	1500.00.045				
T5 (3 x 125 litres)					

*   Short-term flow rate at which the ion exchanger can be operated.
     The nominal flow indicated may decrease in case of high water hardness.
**   A residential unit consists of two persons with a softening process of 20°dH to 8°dH. The specification of
     the max. number of residential units only serves as a rough indication for the selection of a softening
     system and does not replace a professional design based on the SYR investigation sheet Water treatment.

Dosing pump NeoDos Connect

Nominal connection size		DN 20, 25 and 32
Working range acc. to DIN EN 14812		0.06 bis 6 m³/h
Pressure loss at max. flow		0.6 bar
Dosing capacity		100 ml/ m³
Medium		drinking water
Power supply		110-240V/50-60 Hz
Device voltage		24V DC
Serial no.		3100.00.010
Connection set	DN 20	3100.20.000
	DN 25	3100.25.000
	DN 32	3100.32.000
Connection set for LEX+ series		3100.00.011

The connection set for NeoSoft Connect is included in the scope of delivery from NeoDos Connect

SYR dosing solutions DL 1 / DL 2 covering all application scenarios

Hardness level 3		> 14 °dH for stabilisation of hardness
DL 1		phosphate-containing, carbon activated silicate combination
Benefit		Hardness stabilisation + corrosion protection
Dosing quantity		100 ml/m³
Input at 100 ml/m³		2 g phosphate and 2 g silicate per m³
Serial No.	10 litres	3100.00.919
	5 litres	3100.00.921

Hardness level 1 to 2		< 14 °dH as corrosion protection and after water softeners
DL 2		phosphate special combination
Benefit		Corrosion protection + hardness stabilisation
Dosing quantity		100 ml/m³
Input at 100 ml/m³		3 g phosphate per m³
Serial No.	10 litres	3100.00.920
	5 litres	3100.00.922

Overview of current and previous SYR dosing solutions

NEW Dosing solutions	DL 1	DL 2
Function	Hardness stabilisation + corrosion protection	Corrosion protection
Range of application	> 14 °dH (WITHOUT softening)	< 14 °dH (WITH softening)
Material	Pipe material not relevant	Pipe material not relevant

PREVIOUS Solutions	H	C	SW	W
Function	Hardness stabilisation		Corrosion protection	
Range of application	Hardness stabilisation in hardness range 3	Copper piping after softening	galvanized pipelines and aggressive wate in hardness 1	galvanized pipelines in hardness range 1 + 2 as well as mixed installations, after softening respectively
Material	Pipe material does not matter	Copper	Galvanized piping and mixed installations	

Attention: For existing dosing systems DP 1, DP 2 and DOS 1400 the previous dosing media H, C, SW and W must be used.

DRINKING WATER HYGIENE

Flushing station HygBox Connect

Operating pressure	1 to 10 bar
Max. operating temperature	60 °C (approved for thermal disinfection 80 °C)
Medium	drinking water
Flow rate	2.0 m³/h at Δp 1.0 bar
Voltage power supply	12V DC
Battery	4 x LR6 AA
Protection class	IPX4
Serial no.	2622.15.000

FILTER TECHNOLOGY

Drinking water filters DRUFI+ DFR / FR / DFF / FF

Min. operating pressure		2 bar
Max. operating pressure		16 bar
Max. operating temperature		30 °C
medium		drinking water
Flow rate DFR / DFF	DN 20	2.3 m³/h at Δp 1.1 bar
	DN 25	3.6 m³/h at Δp 1.1 bar
	DN 32	5.8 m³/h at Δp 1.1 bar
Flow rate FR / FF	DN 20	3.0 m³/h at Δp 0.2 bar
	DN 25	3.8 m³/h at Δp 0.2 bar
	DN 32	3.9 m³/h at Δp 0.2 bar
	DN 20	4.9 m³/h at Δp 0.5 bar
	DN 25	6.1 m³/h at Δp 0.5 bar
	DN 32	6.3 m³/h at Δp 0.5 bar
Mounting position		any, with angle tundish (accessories) also horizontal
Mesh width	lower upper	90 µm 125 µm
ABP. no.	DFR FR DFF FF	P-IX 6952/I P-IX 6951/I P-IX 6952/I P-IX 6951/I
Serial no.	DFR	2315.01.200
	FR	2315.01.201
	DFF	2315.01.202
	FF	2315.01.203

Automatic backwash system RSA 2316

All backwashable DRUFI+ drinking water filters can be retrofitted with the automatic backwash system RSA to become fully automatic, no tools required without the use of tools.

Serial No.	2316.00.200

Drinking water filter DRUFI+ max DFR / FR

Min. operating pressure		2 bar
Max. operating pressure		16 bar
Max. operating temperature		30 °C
medium		drinking water
Flow rate DFR	DN 32	5.8 m^3/h at Δp 1.1 bar
	DN 40	9.1 m^3/h at Δp 1.1 bar
	DN 50	14.0 m^3/h at Δp 1.1 bar
Flow rate FR	DN 32	8.4 m^3/h at Δp 0.2 bar
	DN 40	9.0 m^3/h at Δp 0.2 bar
	DN 50	9.2 m^3/h at Δp 0.2 bar
	DN 32	13.0 m^3/h at Δp 0.5 bar
	DN 40	14.5 m^3/h at Δp 0.5 bar
	DN 50	15.0 m^3/h at Δp 0.5 bar
Mounting position		any, with angle tundish (accessories) also horizontal
Passage width	lower	90 µm
	upper	125 µm
ABP. no.	DFR	P-IX 7565/I (DN 32)
	FR	P-IX 7564/I (DN 32)
Serial no.	DFR	2315.01.202
	FR	2315.01.203

Drinking water filter DUO DFR / FR

Min. operating pressure			2 bar
Max. operating pressure			16 bar
Max. operating temperature			30 °C
medium			drinking water
Flow rate DFR		DN 20 (R ¾)	2.3 m^3/h at Δp 1.1 bar
		DN 20 (R 1)	2.3 m^3/h at Δp 1.1 bar
Flow rate FR		DN 20	1.4 m^3/h at Δp 0.2 bar
		DN 25	2.3 m^3/h at Δp 0.2 bar
		DN 20	2.3 m^3/h at Δp 0.5 bar
		DN 25	3.6 m^3/h at Δp 0.5 bar
Mounting position			any (through rotary flange)
Passage width		lower	90 µm
		upper	125 µm
ABP. no.		DFR	P-IX 6738/I
		FR	P-IX 6737/I
Serial no.	DFR	DN 20	2314.20.000
		DN 25	2314.25.000
	FR	DN 20	2314.20.001
		DN 25	2314.25.001

Compact filter POU max 7315

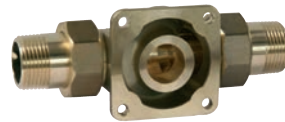|	
Operating pressure	max. 10 bar
Connection size	DN 10
Max. operating temperature	30 °C
medium	drinking water
nominal flow	200 l/h at Δp 1.0 bar
Capacity	approx. 7.500 litres*
Serial no.	7315.10.005
with tap	7315.10.006

depending on the water composition

Connection for all – the SYR flange system

The SYR flange range is well thought-out and perfectly matched to the respective products.
All flanges can be installed in horizontal and vertical pipes.

Universal flange

Serial no.	DN 20	Thread	2315.20.200
	DN 25	Thread	2315.25.200
	DN 32	Thread	2315.32.200

Universal flange max

Serial no.	DN 32	Thread	2315.32.201
	DN 40	Thread	2315.40.201
	DN 50	Thread	2315.50.201