

Liechty



Catalogue air humidification systems

Liechty





Our brand represents innovative humidification systems for homes, apartments, offices, and other commercial spaces.

The mission of Liechty brand is to supply, install, and maintain high-quality, efficient, and safe humidification systems for residential and commercial applications.

Liechty equipment meets the highest hygiene standards, with a strong emphasis on the cleanliness of the water atomized during the humidification process.



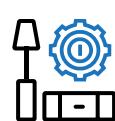
Fully automated

All steps of Liechty operation are automated – from inlet water purification to atomization from nozzles.



Maintenance at place of use

Service at Place of Use (SPoU) concept allows Liechty central modules to be maintained at place where it is installed.



Installation in a finished interior

Technological solutions allow to install Liechty systems in a finished interior thanks to flexible high-pressure hoses & wireless control units.



High capacity

Capacity of one nozzle ranges between 0.6 to 1.2 l/h and can humidify the room of max. 500 sq. feet & whole system may humidify up to 12 individual rooms.



Unique water purification

The unique purification system reduces salt content in spray water up to 99.9%, and the volumetric UV sterilization with circulation kills up to 99.99% of bacteria.



Long service lifetime

Due to modern technological solutions, our equipment has an extremely long service interval – only once every two years.



What is humidity?

To understand what humidity is, one may understand the difference between two following terms: relative humidity and absolute humidity.

Absolute humidity – maximum amount of vapor which can be absorbed by air, always measured in $\text{g}_{\text{water}} / \text{kg}_{\text{air}}$.

Relative humidity (RH) is a ratio of the actual amount of water dissolved in the air to the maximum possible amount which air may contain at certain temperature, measured in %.

As a rule, the main focus is on relative humidity, as this value is inversely proportional to the rate at which water evaporates from surfaces.

For the well-being of humans, animals and natural materials, maintaining an optimal level of humidity is crucial.

In the absence of optimal humidity, moisture can evaporate rapidly from the surfaces of skin, mucous membranes and wooden products

Why humidity matters?

Please note the image below, it clearly shows the humidity ranges. The range of 35% to 60% relative humidity is the most comfortable for humans and surrounding materials.



Air humidity is a fundamental factor of comfortable microclimate indoors: offices, apartments, houses, manufacturing.

RH has a significant impact on our health.

Humidity level below 30% leads to drying of mucous membranes which play the role of protective mechanism in our body. Under normal conditions, they transport dirt, dust, and pathogens away from the respiratory tract. In dry air, mucous membranes cannot perform this function effectively, so bacteria and pathogens remain longer in the upper respiratory tract which may illnesses such as colds and flu.

Moreover, the concentration of airborne dust particles increases when humidity levels are below 30%. In case of optimum RH level dust particles are coated with a thin layer of water, making the particles too heavy to remain airborne.

Dry air adversely affects wood; it can lead to cracking. As we already know, dry air draws moisture from all surrounded objects and surfaces, so wood furniture, floors and interior things begin to lose their volume.

Optimum RH level



Why Liechty air humidification?

Liechty humidification systems combine unique water filtration and full-volume disinfection technology, quiet equipment operation, full automation and safety.



Double-stage RO system



Full-volume UV-sterilization



Service at place of use



Wired & wireless control units



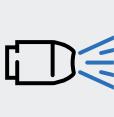
HP line circulation for repeated UV sterilization



Installation into finished interior



Fully automated



Silent operation



CL Line (Classic Line)

The Classic Line series offers nozzle humidification systems with unique solutions for your home, apartment, or office.

Depending on the model, the system can be either dual-zone (CL Playgreen) or multi-zone (CL Manitoba).





CL Playgreen

Pages 8-11

CL Playgreen allows the simultaneous operation of two independent humidification zones, in other words, it can accommodate two high-pressure hoselines. One zone may include several individual subzones (individual premises).

Here you may find information about CL6 Playgreen & CL18 Playgreen.

Advantages

- 2 independent zones
- 2 independent HP hoselines
- unique fine purification system – demineralization rate up to 99.9%
- full-volume UV sterilization – destroys up to 99.99% of bacteria
- high performance – up to 18 nozzles
- leakage control in the hoseline & in the module
- silent operation



CL Manitoba

Pages 12-15

The CL Manitoba series is characterized by the ability to individually control the humidity in different rooms. Depending on the model of the central module, 6 or 12 individual rooms can be humidified.

Here you may find information about CL6 Manitoba & CL12 Manitoba.

Advantages

- up to 12 individual humidification zones
- one looped high pressure hoseline
- unique fine purification system – demineralization rate up to 99.9%
- full-volume UV sterilization – destroys up to 99.99% of bacteria
- high performance – up to 12 nozzles
- leakage control in the hoseline & in the module
- silent operation



Central module CL6 Playgreen

CL6 Playgreen

DESCRIPTION

CL6 Playgreen has a nominal capacity of 6 liters per hour (1.6 GPH). The module allows the simultaneous operation of two independent humidification zones, which means it can accommodate two high-pressure hoselines. CL6 Playgreen includes elements for fine purification of inlet water, including an ultrafilter and double-stage reverse osmosis. It also incorporates full-volume UV sterilization to ensure water purity. Purified water is pumped into a hoseline with a pressure range of 500 to 1,200 psi.

CL6 Playgreen features a 4.3" LCD display that allows the customer to:

- adjust the working pressure in the hoseline,
- remove the request for humidification,
- monitor the maintenance interval,
- check the quality of water purification using the built-in TDS-meter, which measures Total Dissolved Solids.

The central module operation algorithm includes regular service washings. This is done to prevent water stagnation in the high-pressure hoseline, ensuring the system functions effectively.

ADVANTAGES

- 2 independent zones – 2 independent HP lines
- unique SPoU design (Service at Place of Use)
- unique fine purification system – demineralization rate up to 99.9%
- full-volume UV sterilization – destroys up to 99.99% of bacteria
- silent operation
- leakage control in the hoseline & in the module
- convenient installation

SPECIFICATIONS

dimensions, W x H x D, in:	41.5 x 23.2 x 9.6
weight, lbs:	77
capacity, GPH:	1.6
number of humidification zones:	2
material:	aluminium
color:	silver
reverse osmosis:	2 small membranes
UV sterilization:	volumetric with HP line circulation for repeated disinfection
display, inches:	4.3
inlet pressure, psi:	30...90
working pressure, psi:	500...1,200
voltage, VDC:	24
power consumption, W:	240
LP connections:	inlet 3/8", drain 3/8"
HP connections:	4 x CEL 12x1.5



Central module CL18 Playgreen

CL18 Playgreen

DESCRIPTION

CL18 Playgreen has a nominal capacity of 18 liters per hour (4.8 GPH). The module allows the simultaneous operation of two independent humidification zones, which means it can accommodate two high-pressure hoselines. CL18 Playgreen includes elements for fine purification of inlet water, including an ultrafilter and double-stage reverse osmosis. It also incorporates full-volume UV sterilization to ensure water purity. Purified water is pumped into a hoseline with a pressure range of 500 to 1,200 psi.

CL6 Playgreen features a 4.3" LCD display that allows the customer to:

- adjust the working pressure in the hoseline,
- remove the request for humidification,
- monitor the maintenance interval,
- check the quality of water purification using the built-in TDS-meter, which measures Total Dissolved Solids.

The central module operation algorithm includes regular service washings. This is done to prevent water stagnation in the high-pressure hoseline, ensuring the system functions effectively.

ADVANTAGES

- high capacity – up to 18 nozzles
- 2 independent zones – 2 independent HP lines
- unique SPoU design (Service at Place of Use)
- unique fine purification system – demineralization rate up to 99.9%
- full-volume UV sterilization – destroys up to 99.99% of bacteria
- silent operation
- leakage control in the hoseline & in the module
- convenient installation

SPECIFICATIONS

dimensions, W x H x D, in:	41.5 x 23.2 x 9.6
weight, lbs:	85
capacity, GPH:	4.8
number of humidification zones:	2
material:	aluminum
color:	silver
reverse osmosis:	2 big membranes
UV sterilization:	volumetric with HP line circulation for repeated disinfection
display, inches:	4.3
inlet pressure, psi:	30...90
working pressure, psi:	500...1,200
voltage, VDC:	24
power consumption, W:	300
LP connections:	inlet 3/8", drain 3/8"
HP connections:	4 x CEL 12x1.5



Central module CL6 Manitoba

CL6 Manitoba

DESCRIPTION

CL6 Manitoba has a nominal capacity of 6 liters per hour (1.6 GPH). The module includes elements for fine purification of inlet water, including an ultrafilter and double-stage reverse osmosis. It also incorporates full-volume UV sterilization to ensure water purity. Purified water is pumped into a hoseline with a pressure range of 500 to 1,200 psi.

CL6 Manitoba features a 4.3" LCD display that allows the customer to:

- adjust the working pressure in the hoseline,
- remove the request for humidification,
- monitor the maintenance interval.
- check the quality of water purification using the built-in TDS-meter, which measures Total Dissolved Solids,
- control operation in zones individually.

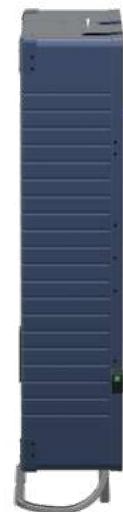
The module is equipped with a zone controller, enabling the operation of up to 6 independent humidification zones. This feature allows for flexibility in controlling humidity in different premises. The central module operation algorithm includes regular service washings. This is done to prevent water stagnation in the high-pressure hoseline, ensuring the system functions effectively.

ADVANTAGES

- up to 6 individual zones
- unique SPoU design (Service at Place of Use)
- unique fine purification system – demineralization rate up to 99.9%
- full-volume UV sterilization – destroys up to 99.99% of bacteria
- silent operation
- leakage control in the hoseline & in the module
- convenient installation

SPECIFICATIONS

dimensions, W x H x D, in:	1035 x 580 x 240
weight, lbs:	30
capacity, GPH:	6
number of humidification zones:	6
material:	aluminum
color:	dark indigo (dark violet)
reverse osmosis:	2 small membranes
UV sterilization:	volumetric with HP line circulation for repeated disinfection
display, inches:	4.3
inlet pressure, psi:	30...90
working pressure, psi:	500...1,200
voltage, VDC:	24
power consumption, W:	270
LP connections:	inlet 3/8", drain 3/8"
HP connections:	2 x CEL 12x1.5



Central module CL12 Manitoba

CL12 Manitoba

DESCRIPTION

CL12 Manitoba has a nominal capacity of 12 liters per hour (3.2 GPH). The module includes elements for fine purification of inlet water, including an ultrafilter and double-stage reverse osmosis. It also incorporates full-volume UV sterilization to ensure water purity. Purified water is pumped into a hoseline with a pressure range of 500 to 1,200 psi.

CL12 Manitoba features a 4.3" LCD display that allows the customer to:

- adjust the working pressure in the hoseline,
- remove the request for humidification,
- monitor the maintenance interval.
- check the quality of water purification using the built-in TDS-meter, which measures Total Dissolved Solids,
- control operation in zones individually.

The module is equipped with a zone controller, enabling the operation of up to 12 independent humidification zones. This feature allows for flexibility in controlling humidity in different premises. The central module operation algorithm includes regular service washings. This is done to prevent water stagnation in the high-pressure hoseline, ensuring the system functions effectively.

ADVANTAGES

- high capacity – up to 12 nozzles
- up to 12 individual zones
- unique SPoU design (Service at Place of Use)
- unique fine purification system – demineralization rate up to 99.9%
- full-volume UV sterilization – destroys up to 99.99% of bacteria
- silent operation
- leakage control in the hoseline & in the module
- convenient installation

SPECIFICATIONS

dimensions, W x H x D, in:	41.5 x 23.2 x 9.6
weight, lbs:	77
capacity, GPH:	3.2
number of humidification zones:	12
material:	aluminum
color:	dark indigo (dark violet)
reverse osmosis:	2 membranes (small & big)
UV sterilization:	volumetric with HP line circulation for repeated disinfection
display, inches:	4.3
inlet pressure, psi:	30...90
working pressure, psi:	500...1,200
voltage, VDC:	24
power consumption, W:	330
LP connections:	inlet 3/8", drain 3/8"
HP connections:	2 x CEL 12x1.5

Filtration

In Liechty humidification systems, special attention is focused on the purification of inlet water before it goes to atomization.

This chapter is dedicated to preliminary water filters that purify water from mechanical impurities, organic compounds and chlorine.



MF filters

Pages 20-21

Sediment filters are used to remove mechanical impurities from the feed water in order to protect and extend the lifetime of the following microcarbon filter.

Models: MF 10, MF 20 & MF 20+.

- precise filtration
- easy cartridge replacement
- protection from SPM



MCF filters

Pages 21-22

Microcarbon filters are used to remove chlorine, mechanical impurities and organic compounds.

Models: MCF 10, MCF 20 & MCF 20+.

- high chlorine capacity
- easy cartridge replacement
- protection from SPM



UF filters

Pages 23-24

Ultrafilters is used for additional fine purification of water after MCF filters against bacteria, viruses and colloids in order to protect and extend lifetime of the first reverse osmosis membrane inside the central module.

Models: UF 10, UF 20 & UF 20+.

- the finest filtration
- easy cartridge replacement





BB 20" Sediment filter, 5 μ

MF 20+

DESCRIPTION

The sediment filter with 5 μ pores is used for removal of mechanical impurities from feed water in order to protect and extend the lifetime of the microcarbon filter.

Compatible with CL18 & CL12 modules.

Attention! The package does NOT include a pressure reducer and pressure gauge.



SPECIFICATIONS

dimensions, W x H x D, in:	11.5 x 24.8 x 7.6
microfiltration class, μ :	5
connections:	inlet 3/8", drain 3/8"



SL 20" Sediment filter, 1 μ

MF 20

DESCRIPTION

The sediment filter with 1 μ pores is used for removal of mechanical impurities from feed water in order to protect and extend the lifetime of the microcarbon filter.

Compatible with CL6 & CL12 modules.

Attention! The package does NOT include a pressure reducer and pressure gauge.



SPECIFICATIONS

dimensions, W x H x D, in:	8.1 x 24.2 x 5.9
microfiltration class, μ :	1
connections:	inlet 3/8", drain 3/8"

**SL 10" Sediment filter, 1 μ** **MF 10****DESCRIPTION**

The sediment filter with 1 μ pores is used for removal of mechanical impurities from feed water in order to protect and extend the lifetime of the microcarbon filter.

Compatible with CL6 modules.

Attention! The package does NOT include a pressure reducer and pressure gauge.

**SPECIFICATIONS**

dimensions, W x H x D, in:	4.3 x 13.4 x 5
----------------------------	----------------

microfiltration class, μ :	1
--------------------------------	---

connections:	inlet 3/8", drain 3/8"
--------------	------------------------

**BB 20" Microcarbon filter, 20 μ** **MCF 20+****DESCRIPTION**

The microcarbon filter with 20 μ pores is used for removal of chlorine, mechanical impurities and organic compounds in order to protect and extend the life time of RO membranes installed in the central module.

Compatible with CL18 & CL12 modules.

Attention! The package does NOT include a pressure reducer and pressure gauge.

**SPECIFICATIONS**

dimensions, W x H x D, in:	11.5 x 24.8 x 7.6
----------------------------	-------------------

microfiltration class, μ :	20
--------------------------------	----

chlorine capacity, gal:	450 000
-------------------------	---------

connections:	inlet 3/8", drain 3/8"
--------------	------------------------



SL 20" Microcarbon filter, 10 μ

MCF 20

DESCRIPTION

The microcarbon filter with 10 μ pores is used for removal of chlorine, mechanical impurities and organic compounds in order to protect and extend the life time of RO membranes installed in the central module.

Compatible with CL6 & CL12 modules.

Attention! The package does NOT include a pressure reducer and pressure gauge.



SPECIFICATIONS

dimensions, W x H x D, in:	8.1 x 24.2 x 5.9
microfiltration class, μ :	10
chlorine capacity, gal:	45,000
connections:	inlet 3/8", drain 3/8"



SL 10" Microcarbon filter, 5 μ

MCF 10

DESCRIPTION

The microcarbon filter with 5 μ pores is used for removal of chlorine, mechanical impurities and organic compounds in order to protect and extend the life time of RO membranes installed in the central module.

Compatible with CL6 modules.

Attention! The package does NOT include a pressure reducer and pressure gauge.



SPECIFICATIONS

dimensions, W x H x D, in:	4.3 x 13.4 x 5
microfiltration class, μ :	5
chlorine capacity, gal:	20,000
connections:	inlet 3/8", drain 3/8"

**BB 20" Ultrafilter, 0.1 μ**

UF 20+

DESCRIPTION

The ultrafilter with 0.1 μ pores is designed for final filtration of inlet water from bacteria and viruses in order to protect and extend the life time of the reverse osmosis membrane inside the central module.

Compatible with CL18 & CL12 modules.

Attention! The package does NOT include a pressure reducer and pressure gauge.



SPECIFICATIONS

dimensions, W x H x D, in: 11.5 x 24.8 x 7.6

microfiltration class, μ : 0.1

connections: inlet 3/8", drain 3/8"

**SL 20" Ultrafilter, 0.1 μ**

UF 20

DESCRIPTION

The ultrafilter with 0.1 μ pores is designed for final filtration of inlet water from bacteria and viruses in order to protect and extend the life time of the reverse osmosis membrane inside the central module.

Compatible with CL6 & CL12 modules.

Attention! The package does NOT include a pressure reducer and pressure gauge.



SPECIFICATIONS

dimensions, W x H x D, in: 8.1 x 24.2 x 5.9

microfiltration class, μ : 0.1

connections: inlet 3/8", drain 3/8"

SL 10" Ultrafilter, 0.1 μ **UF 10****DESCRIPTION**

The ultrafilter with 0.1μ pores is designed for final filtration of inlet water from bacteria and viruses in order to protect and extend the life time of the reverse osmosis membrane inside the central module.

Compatible with CL6 modules.

Attention! The package does NOT include a pressure reducer and pressure gauge.

**SPECIFICATIONS**

dimensions, W x H x D, in:	4.3 x 13.4 x 5
microfiltration class, μ :	0.1
connections:	inlet 3/8", drain 3/8"



Control units

Liechty humidification systems can be easily controlled using either standard control units or external automation.

This chapter presents the entire range of Liechty control units.





Wired control units HS3, MHS3

Pages 28-29

- high accuracy of RH measurement
- possibility to set an operating schedule
- protection against overhumidity



Wired / wireless units HS4, MHS4

Pages 30-34

- high accuracy of RH measurement
- possibility to set an operating schedule
- modern design
- protection against overhumidity



Wired max. hygrostats MHS2

Pages 35

- simple mechanical construction
- protection against overhumidity



Wireless units HS5, MHS5

Pages 36-37

- wide RF signal range
- high accuracy of RH measurement
- protection against overhumidity



Receiver module RF Box

Pages 38

Wired control unit HS3, white

[HS3-W](#)



DESCRIPTION

HS3-W allows to set the required level of humidity in the room, select automatic operation mode or switch off humidification in the room.

The display shows set humidity level, current humidity level and room temperature. An additional screen allows you to set the schedule of the system operation in a particular zone by hours, at what time the operation of the system is allowed / prohibited.

There is a built-in maximum humidistat function that alerts the equipment in case of over-humidification.

It is connected with a low voltage cable.

SPECIFICATIONS

dimensions, W x H x D, in:	3.2 x 2.8 x 0.7
material:	plastic
color:	white:
RH control range, %:	5...55
sensor accuracy, %:	± 2
voltage, VDC:	24
screen, inches:	3", monochrome
mount:	magnetic
regulating output:	1
protective output:	1

Wired control unit HS3, black

[HS3-B](#)



DESCRIPTION

HS3-B allows to set the required level of humidity in the room, select automatic operation mode or switch off humidification in the room.

The display shows set humidity level, current humidity level and room temperature. An additional screen allows you to set the schedule of the system operation in a particular zone by hours, at what time the operation of the system is allowed / prohibited.

There is a built-in maximum humidistat function that alerts the equipment in case of over-humidification.

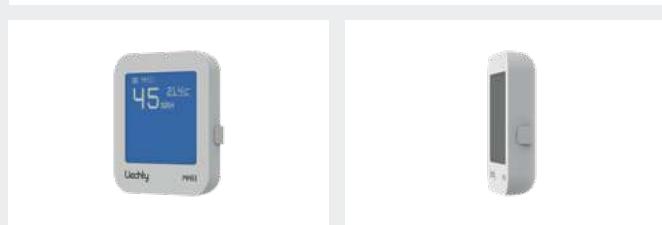
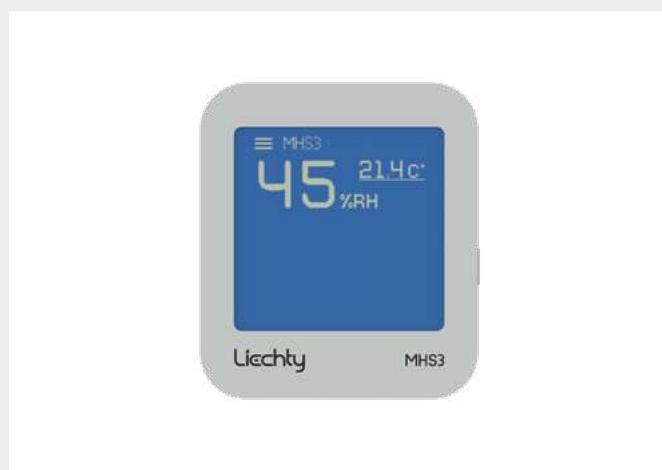
It is connected with a low voltage cable.

SPECIFICATIONS

dimensions, W x H x D, in:	3.2 x 2.8 x 0.7
material:	plastic
color:	black
RH control range, %:	5...55
sensor accuracy, %:	± 2
voltage, VDC:	24
screen, inches:	3", monochrome
mount:	magnetic
regulating output:	1
protective output:	1

Wired additional control unit MHS3, white

MHS3-W



DESCRIPTION

MHS3-W additional unit allows you to monitor humidity level in the room and switch off humidification request when the maximum peak value is reached (default max. level is set at 55%).

It is powered by 24 VDC and connected with a low voltage cable.

MHS3-W is mounted on a magnetic mount.

SPECIFICATIONS

dimensions, W x H x D, in:	3.2 x 2.8 x 0.7
material:	plastic
color:	white:
max RH level, %:	55
sensor accuracy, %:	± 2
voltage, VDC:	24
screen, inches:	3", monochrome
mount:	magnetic
protective output:	1

Wired additional control unit MHS3, black

MHS3-B



DESCRIPTION

MHS3-B additional unit allows you to monitor humidity level in the room and switch off humidification request when the maximum peak value is reached (default max. level is set at 55%).

It is powered by 24 VDC and connected with a low voltage cable.

MHS3-B is mounted on a magnetic mount.

SPECIFICATIONS

dimensions, W x H x D, in:	3.2 x 2.8 x 0.7
material:	plastic
color:	black
max RH level, %:	55
sensor accuracy, %:	± 2
voltage, VDC:	24
screen, inches:	3", monochrome
mount:	magnetic
protective output:	1

Wired / wireless control unit HS4, white

HS4-W



DESCRIPTION

HS4-W control unit is used to set the required humidity in the humidification zone, as well as to select the operation mode of the nozzles: automatic, timed, off. The built-in sensor measures the humidity level with high accuracy.

The first screen of the interface displays set and actual humidity levels, room temperature, operation status, additional menu. In HS4-W it is possible to set the schedule of nozzle operation in a certain humidification zone. In addition, HS4-W is equipped with a protection circuit that can be used as a maximum humidistat.

Thanks to its laconic and luxurious design, as well as several variants of housing HS4 will complement any interior.

SPECIFICATIONS

dimensions, W x H x D, in:	3.3 x 3.3 x 0.6
material:	aluminum
color:	white
RH control range, %:	5...55
wireless connection:	available
frequency range, MHz::	433
sensor accuracy, %:	± 1,8
voltage, VDC:	24
screen, inches:	4", color
mount:	magnetic
regulating output:	1
protective output:	1

Wired / wireless control unit HS4, nickel

HS4-N



DESCRIPTION

HS4-N control unit is used to set the required humidity in the humidification zone, as well as to select the operation mode of the nozzles: automatic, timed, off. The built-in sensor measures the humidity level with high accuracy.

The first screen of the interface displays set and actual humidity levels, room temperature, operation status, additional menu. In HS4-N it is possible to set the schedule of nozzle operation in a certain humidification zone. In addition, HS4-N is equipped with a protection circuit that can be used as a maximum humidistat.

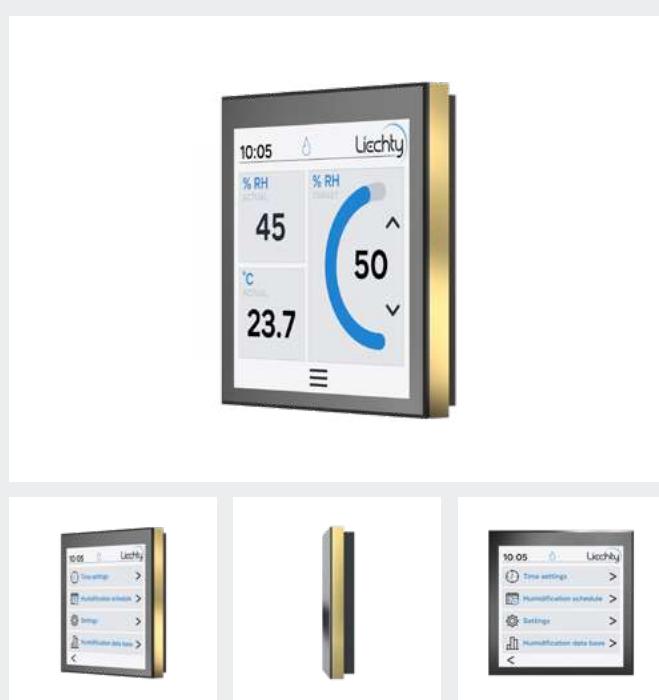
Thanks to its laconic and luxurious design, as well as several variants of housing HS4 will complement any interior.

SPECIFICATIONS

dimensions, W x H x D, in:	3.3 x 3.3 x 0.6
material:	stainless steel
color:	nickel
RH control range, %:	5...55
wireless connection:	available
frequency range, MHz::	433
sensor accuracy, %:	± 1,8
voltage, VDC:	24
screen, inches:	4", color
mount:	magnetic
regulating output:	1
protective output:	1

Wired / wireless control unit HS4, gold

HS4-G



DESCRIPTION

HS4-G control unit is used to set the required humidity in the humidification zone, as well as to select the operation mode of the nozzles: automatic, timed, off. The built-in sensor measures the humidity level with high accuracy.

The first screen of the interface displays set and actual humidity levels, room temperature, operation status, additional menu. In HS4-G it is possible to set the schedule of nozzle operation in a certain humidification zone. In addition, HS4-G is equipped with a protection circuit that can be used as a maximum humidistat.

Thanks to its laconic and luxurious design, as well as several variants of housing HS4 will complement any interior.

SPECIFICATIONS

dimensions, W x H x D, in:	3.3 x 3.3 x 0.6
material:	24K gold coated brass
color:	gold
RH control range, %:	5...55
wireless connection:	available
frequency range, MHz::	433
sensor accuracy, %:	± 1,8
voltage, VDC:	24
screen, inches:	4", color
mount:	magnetic
regulating output:	1
protective output:	1

Wired / wireless control unit HS4, white gold

HS4-WG



DESCRIPTION

HS4-WG control unit is used to set the required humidity in the humidification zone, as well as to select the operation mode of the nozzles: automatic, timed, off. The built-in sensor measures the humidity level with high accuracy.

The first screen of the interface displays set and actual humidity levels, room temperature, operation status, additional menu. In HS4-WG it is possible to set the schedule of nozzle operation in a certain humidification zone. In addition, HS4-WG is equipped with a protection circuit that can be used as a maximum humidistat.

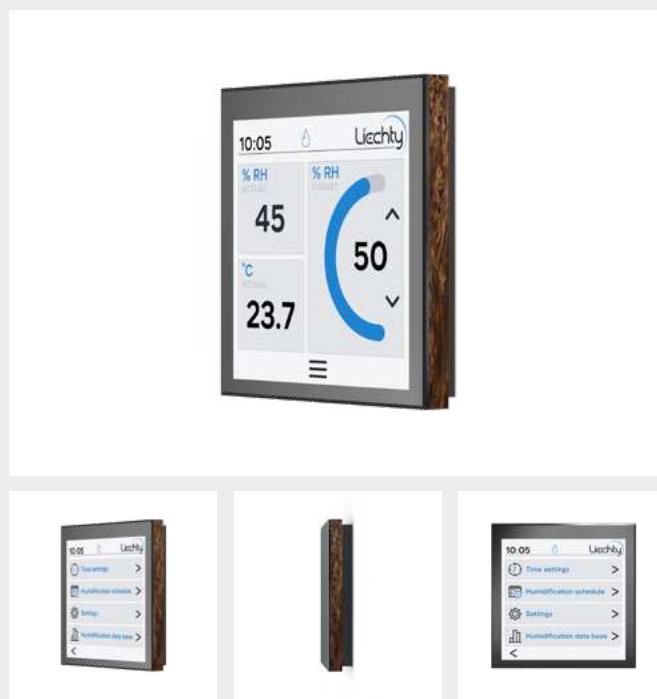
Thanks to its laconic and luxurious design, as well as several variants of housing HS4 will complement any interior.

SPECIFICATIONS

dimensions, W x H x D, in:	3.3 x 3.3 x 0.6
material:	rhodium coated brass
color:	white gold
RH control range, %:	5...55
wireless connection:	available
frequency range, MHz::	433
sensor accuracy, %:	± 1,8
voltage, VDC:	24
screen, inches:	4", color
mount:	magnetic
regulating output:	1
protective output:	1

Wired / wireless control unit HS4, dark wood

[HS4-DW](#)



DESCRIPTION

HS4-DW control unit is used to set the required humidity in the humidification zone, as well as to select the operation mode of the nozzles: automatic, timed, off. The built-in sensor measures the humidity level with high accuracy.

The first screen of the interface displays set and actual humidity levels, room temperature, operation status, additional menu. In HS4-DW it is possible to set the schedule of nozzle operation in a certain humidification zone. In addition, HS4-DW is equipped with a protection circuit that can be used as a maximum humidistat.

Thanks to its laconic and luxurious design, as well as several variants of housing HS4 will complement any interior.

SPECIFICATIONS

dimensions, W x H x D, in:	3.3 x 3.3 x 0.6
material:	wood
color:	wood
RH control range, %:	5...55
wireless connection:	available
frequency range, MHz::	433
sensor accuracy, %:	± 1,8
voltage, VDC:	24
screen, inches:	4", color
mount:	magnetic
regulating output:	1
protective output:	1

Wired / wireless maximum hygrostat, white

[MHS4-W](#)



DESCRIPTION

MHS4-W – the additional unit performs a protective function by controlling RH level and switching off nozzles in a particular humidification zone when the maximum value is exceeded (default threshold – 55%).

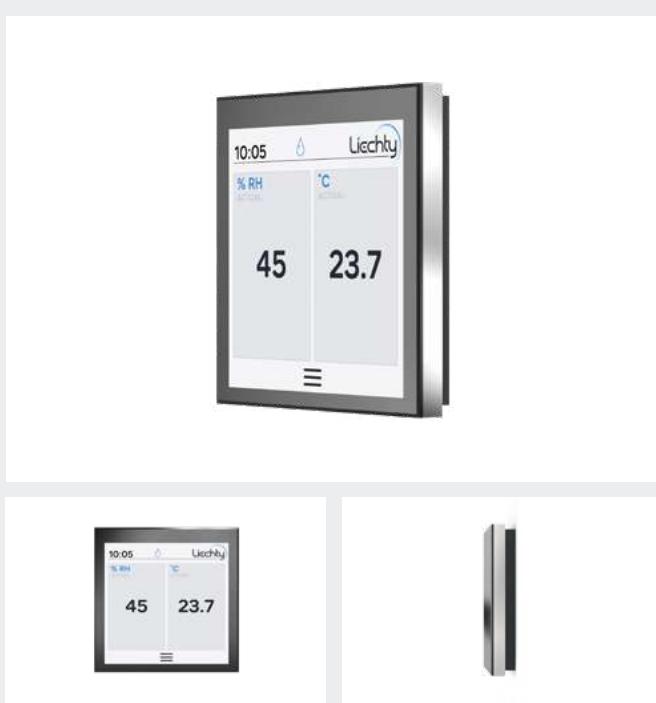
MHS4-W is the wired unit, which provides the possibility of wireless connection on the frequency 315 MHz, the radio signal is able to be transmitted through concrete and reinforced structures. The additional unit is mounted on a branded magnetic mount.

SPECIFICATIONS

dimensions, W x H x D, in:	3.3 x 3.3 x 0.6
material:	aluminum
color:	white
max RH level, %:	55
frequency range, MHz::	433
sensor accuracy, %:	± 1,8
voltage, VDC:	24
screen, inches:	4", color
mount:	magnetic
protective output:	1

Wired / wireless maximum hygrostat, nickel

MHS4-N



DESCRIPTION

MHS4-N – the additional unit performs a protective function by controlling RH level and switching off nozzles in a particular humidification zone when the maximum value is exceeded (default threshold – 55%).

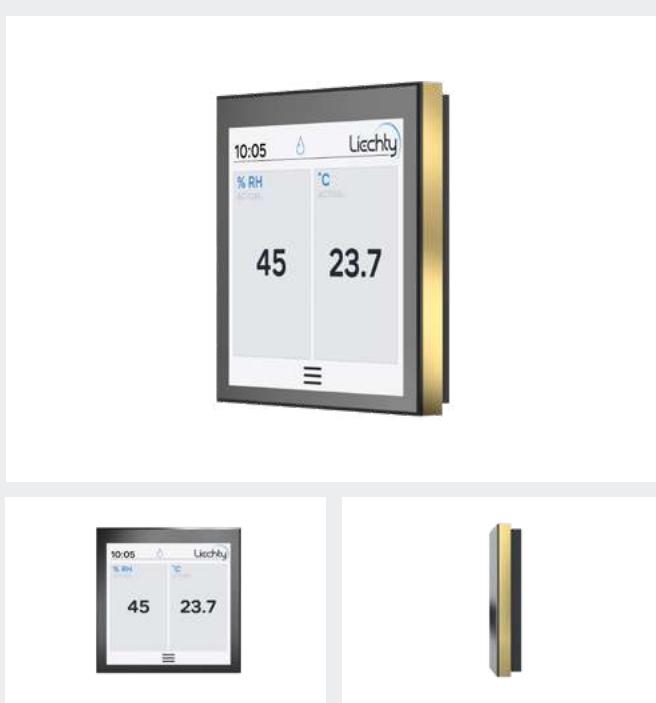
MHS4-N is the wired unit, which provides the possibility of wireless connection on the frequency 315 MHz, the radio signal is able to be transmitted through concrete and reinforced structures. The additional unit is mounted on a branded magnetic mount.

SPECIFICATIONS

dimensions, W x H x D, in:	3.3 x 3.3 x 0.6
material:	stainless steel
color:	nickel
max RH level, %:	55
frequency range, MHz::	433
sensor accuracy, %:	± 1,8
voltage, VDC:	24
screen, inches:	4", color
mount:	magnetic
protective output:	1

Wired / wireless maximum hygrostat, gold

MHS4-G



DESCRIPTION

MHS4-G – the additional unit performs a protective function by controlling RH level and switching off nozzles in a particular humidification zone when the maximum value is exceeded (default threshold – 55%).

MHS4-G is the wired unit, which provides the possibility of wireless connection on the frequency 315 MHz, the radio signal is able to be transmitted through concrete and reinforced structures. The additional unit is mounted on a branded magnetic mount.

SPECIFICATIONS

dimensions, W x H x D, in:	3.3 x 3.3 x 0.6
material:	24K gold coated brass
color:	gold
max RH level, %:	55
frequency range, MHz::	433
sensor accuracy, %:	± 1,8
voltage, VDC:	24
screen, inches:	4", color
mount:	magnetic
protective output:	1

Wired / wireless maximum hygrostat, white gold

MHS4-WG



DESCRIPTION

MHS4-WG – the additional unit performs a protective function by controlling RH level and switching off nozzles in a particular humidification zone when the maximum value is exceeded (default threshold – 55%).

MHS4-WG is the wired unit, which provides the possibility of wireless connection on the frequency 315 MHz, the radio signal is able to be transmitted through concrete and reinforced structures. The additional unit is mounted on a branded magnetic mount.

SPECIFICATIONS

dimensions, W x H x D, in:	3.3 x 3.3 x 0.6
material:	rhodium coated brass
color:	white gold
max RH level, %:	55
frequency range, MHz::	433
sensor accuracy, %:	± 1,8
voltage, VDC:	24
screen, inches:	4", color
mount:	magnetic
protective output:	1

Wired / wireless maximum hygrostat, dark wood

MHS4-DW



DESCRIPTION

MHS4-DW – the additional unit performs a protective function by controlling RH level and switching off nozzles in a particular humidification zone when the maximum value is exceeded (default threshold – 55%).

MHS4-DW is the wired unit, which provides the possibility of wireless connection on the frequency 315 MHz, the radio signal is able to be transmitted through concrete and reinforced structures. The additional unit is mounted on a branded magnetic mount.

SPECIFICATIONS

dimensions, W x H x D, in:	3.3 x 3.3 x 0.6
material:	wood
color:	wood
max RH level, %:	55
frequency range, MHz::	433
sensor accuracy, %:	± 1,8
voltage, VDC:	24
screen, inches:	4", color
mount:	magnetic
protective output:	1

Wired maximum hygrostat, white

MHS2-W



DESCRIPTION

Maximum humidistat MHS2-W is a device with a built-in mechanical relative humidity sensor that measures actual humidity level in the humidification zone, and when the maximum RH value* is reached, it switches off the operation of the nozzles in the particular room, preventing over-humidification.

* - default threshold of the maximum humidity level is 55%.

SPECIFICATIONS

dimensions, W x H x D, in:	3.3 x 3.3 x 1.2
material:	plastic
color:	white
max RH level, %:	55
mount:	screw
protective output:	1

Wired maximum hygrostat, black

MHS2-B



DESCRIPTION

Maximum humidistat MHS2-B is a device with a built-in mechanical relative humidity sensor that measures actual humidity level in the humidification zone, and when the maximum RH value* is reached, it switches off the operation of the nozzles in the particular room, preventing over-humidification.

* - default threshold of the maximum humidity level is 55%.

SPECIFICATIONS

dimensions, W x H x D, in:	3.3 x 3.3 x 1.2
material:	plastic
color:	black
max RH level, %:	55
mount:	screw
protective output:	1

Wireless control unit HS5, white

HS5-W



DESCRIPTION

With wireless HS5-W unit user can set the desired level of humidity in the certain room, set automatic mode, or disable the operation of the current humidification zone.

HS5-W sends a signal on free frequency 315 MHz and is equipped with built-in protection against over-humidification - when the humidity level reaches 55%, the remote control switches off the operation of the controlled nozzle / nozzles. The special algorithm allows the radio signal to pass through reinforced concrete walls and structures.

The unit is powered by a rechargeable accumulator, which needs to be recharged once every 4 – 6 months using the adapter and cable provided in the package.

HS5 is mounted on a branded magnetic mount.

SPECIFICATIONS

dimensions, W x H x D, in:	3.2 x 2.8 x 0.7
material:	plastic
color:	white
RH control range, %:	5...55
wireless range::	up to 1000 m
frequency range, MHz::	315
sensor accuracy, %:	± 2
voltage, VDC:	24
screen, inches:	3", monochrome
mount:	magnetic

Wireless control unit HS5, black

HS5-B



DESCRIPTION

With wireless HS5-B unit user can set the desired level of humidity in the certain room, set automatic mode, or disable the operation of the current humidification zone.

HS5-B sends a signal on free frequency 315 MHz and is equipped with built-in protection against over-humidification - when the humidity level reaches 55%, the remote control switches off the operation of the controlled nozzle / nozzles. The special algorithm allows the radio signal to pass through reinforced concrete walls and structures.

The unit is powered by a rechargeable accumulator, which needs to be recharged once every 4 – 6 months using the adapter and cable provided in the package.

HS5 is mounted on a branded magnetic mount.

SPECIFICATIONS

dimensions, W x H x D, in:	3.2 x 2.8 x 0.7
material:	plastic
color:	black
RH control range, %:	5...55
wireless range::	up to 1000 m
frequency range, MHz::	315
sensor accuracy, %:	± 2
voltage, VDC:	24
screen, inches:	3", monochrome
mount:	magnetic

Wireless additional control unit MHS5, white

[MHS5-W](#)



DESCRIPTION

MHS5-W is the additional wireless unit, which allows you to control the humidity and switch off the nozzles in the current humidification zone when the maximum RH is reached (default max. level is set at 55%).

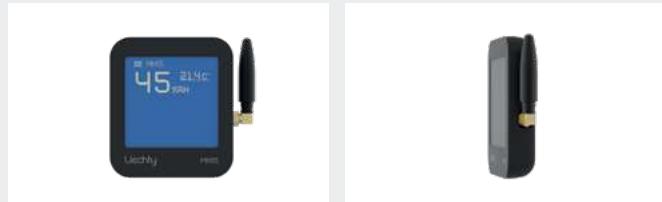
The unit operates on the free frequency 315 MHz, the radio signal is able to pass through concrete and reinforcement structures.

MHS5-W is powered by a rechargeable accumulator which needs to be recharged once every 4 – 6 months using the adapter and cable provided in the package.

MHS5 is installed on a branded magnetic mount.

Wireless additional control unit MHS5, black

[MHS5-B](#)



DESCRIPTION

MHS5-B is the additional wireless unit, which allows you to control the humidity and switch off the nozzles in the current humidification zone when the maximum RH is reached (default max. level is set at 55%).

The unit operates on the free frequency 315 MHz, the radio signal is able to pass through concrete and reinforcement structures.

MHS5-B is powered by a rechargeable accumulator which needs to be recharged once every 4 – 6 months using the adapter and cable provided in the package.

MHS5 is installed on a branded magnetic mount.

SPECIFICATIONS

dimensions, W x H x D, in:	3.2 x 2.8 x 0.7
material:	plastic
color:	white
max RH level, %:	55
wireless range::	up to 1000 m
sensor accuracy, %:	± 2
screen, inches:	3", monochrome
mount:	magnetic

Receiver module**RF Box****DESCRIPTION**

The transceiver radio module performs a number of functions:

1. Receiving signals from wireless control units for their further transmission to the central module. The signals are transmitted on 315 MHz radio frequency once a minute & immediately when the set RH level, operating mode or schedule on the control unit changes, as well as when the maximum threshold is reached on one of the main or additional control units.
2. Two-way nozzle radio control.
3. Wi-Fi to monitor and control the humidification system from smartphones.

RF Box is mounted on the wall outside of metal cabinets and away from bulky metal objects. The RF Box is connected to the central module by a low-voltage cable with connectors.

SPECIFICATIONS

dimensions, W x H x D, in:	2.7 x 2.8 x 1.1
material:	plastic
color:	white
wireless range::	up to 1000 m
voltage, VDC:	24
mount:	screw



Nozzles & parts

This chapter presents components required to assemble Liechty humidification nozzles.

Liechty humidification nozzles can be installed out of walls, ceilings, ventilation or conditioning grilles, or mounted on splitters.





Nozzle heads

Pages 42

- miniature size fits into any interior
- chrome plating
- silent operation
- anti-drip valve
- ruby insert long lifetime



SV silent valve

Pages 43

- noiseless operation
- flow-through construction
- small size makes installation easier



Flexible tubes-extenders

Pages 43-46

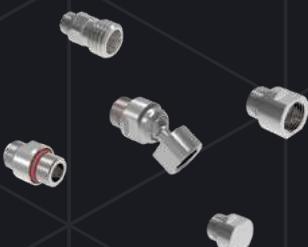
- flexible construction
- different lengths for easier installation
- several types of connections



Splitters

Pages 46-47

- choice of shapes
- chrome plating
- convenient installation



Adapters

Pages 48-50

65 µm nozzle head with double filter**PNS****DESCRIPTION**

PNM nozzle with 65 µ orifice is used to create a fine water fog. The artificial ruby insert ensures solid construction and long lifetime.

The tiny 65 µ nozzle orifice produces microdroplets from 10 to 35 µ size, which disperse instantly into the air without reaching the floor or furniture.

The nozzle is equipped with an anti-drip valve that shuts off the water flow when the pressure decreases.

SPECIFICATIONS

dimensions ($\varnothing \times OD$), in:	0.55 x 0.7
atomizing orifice diameter, µ:	65
capacity at 1000 psi pressure, GPH:	0.25
material:	stainless steel
connection:	M8m
finishing:	chrome

85 µm nozzle head with double filter**PNM****DESCRIPTION**

PNM nozzle with 85 µ orifice is used to create a fine water fog. The artificial ruby insert ensures solid construction and long lifetime.

The tiny 85 µ nozzle orifice produces microdroplets from 15 to 40 µ size, which disperse instantly into the air without reaching the floor or furniture.

The nozzle is equipped with an anti-drip valve that shuts off the water flow when the pressure decreases.

SPECIFICATIONS

dimensions ($\varnothing \times OD$), in:	0.55 x 0.7
atomizing orifice diameter, µ:	85
capacity at 1000 psi pressure, GPH:	0.3
material:	stainless steel
connection:	M8m
finishing:	chrome



Active SV valve

SV

DESCRIPTION

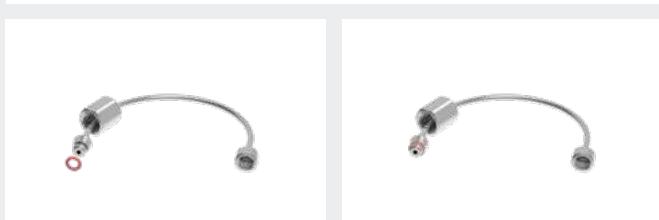
SV – absolutely silent valve opens / closes upon request of the controller installed in the central module. The valve is connected to the central module by a cable.

Two solenoids are used in the valve's construction, which balance each other's forces and thus create a smooth, click-free movement of the plunger. Such operation makes it possible to install the valve directly in the neighbourhood of living rooms: bedrooms, children's rooms, living rooms.

Another important feature of SV valve is an entirely flow-through construction and absence of stagnant zones and, as a consequence, the exclusion of microbiological hazard. SV active valve has two CEL connections.

SPECIFICATIONS

dimensions ($\varnothing \times OD$), in:	1.6 x 2.9
connections:	2 x CEL
material:	stainless steel
voltage, VDC:	24



Flexible steel tube for nozzle output, 15 cm

DKOL-M8 Ext 15

DESCRIPTION

DKOL-M8 Ext 15 is 15 cm long flexible extender, which is required for several applications: to extend the nozzle heads or GRM splitter from SV valve, or to extend PNS / PNM from TCCC tee.

The extender is made of stainless steel.

SPECIFICATIONS

dimensions ($\varnothing \times OD$), in:	0.43 x 0.67
connections:	DKOL-M8f
material:	stainless steel



Flexible steel tube for nozzle output, 70 cm

DKOL-M8 Ext 70

DESCRIPTION

DKOL-M8 Ext 70 is 70 cm long flexible extender, which is required for several applications: to extend the nozzle heads or GRM splitter from SV valve, or to extend PNS / PNM from TCCC tee.

The extender is made of stainless steel.

SPECIFICATIONS

dimensions ($\varnothing \times$ OD), in:	0.43 x 2.83
connections:	DKOL-M8f
material:	stainless steel



Flexible steel tube for nozzle output, 140 cm

DKOL-M8 Ext 140

DESCRIPTION

DKOL-M8 Ext 140 is 140 cm long flexible extender, which is required for several applications: to extend the nozzle heads or GRM splitter from SV valve, or to extend PNS / PNM from TCCC tee.

The extender is made of stainless steel.

SPECIFICATIONS

dimensions ($\varnothing \times$ OD), in:	0.43 x 5.6
connections:	DKOL-M8f
material:	stainless steel



Flexible steel tube for connecting SV valve to TCCC tee, 70 cm

DKOL-DKOL Ext 70

DESCRIPTION

DKOL-DKOL Ext 70 is 70 cm long flexible extender, which is required to extend SV valve from TCCC tee.

The extender is made of stainless steel.

SPECIFICATIONS

dimensions ($\varnothing \times OD$), in:	0.43 x 2.87
connections:	DKOL-DKOL
material:	stainless steel



Flexible steel tube for connecting SV valve to TCCC tee, 140 cm

DKOL-DKOL Ext 140

DESCRIPTION

DKOL-DKOL Ext 140 is 140 cm long flexible extender, which is required to extend SV valve from TCCC tee.

The extender is made of stainless steel.

SPECIFICATIONS

dimensions ($\varnothing \times OD$), in:	0.43 x 5.63
connections:	DKOL-DKOL
material:	stainless steel



Flexible tube for PNS / PNM installation to GRM8, 10 cm

M8mf Ext 10

DESCRIPTION

M8mf Ext 10 extender screws into M8mes threaded connections for positioning PNS / PNM nozzle heads in certain directions.



SPECIFICATIONS

dimensions ($\varnothing \times$ OD), in:	0.43 x 0.47
connections:	M8mes-M8f
material:	stainless steel

Splitter for two PNS / PNM nozzle heads with magnet plate

GRM8



DESCRIPTION

GRM8 is a splitter made of high quality stainless steel AISI316L. At the back of the splitter there are two ports for connection to the high pressure line.

GRM8 has three threaded holes for installation of PNS / PNM spray tips. M8 Dot plugs can be screwed into unused connections. PNS / PNMs can be screwed into the GRM8 through M8mf, M8 Pivot or can be installed using M8fm Ext 10 extender.

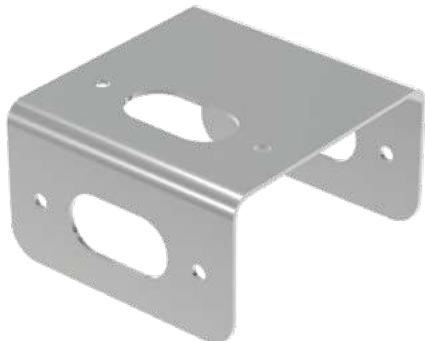
The splitter is mounted using magnets on the back side to hold the splitter on the special steel plate included in the package. The plate can be ceiling or wall mounted.

The GR Bracket is required for open installation of the high pressure hose line.



SPECIFICATIONS

dimensions, W x H x D, in:	1.73 x 3.6 x 0.5
connections:	5 x M8fes
material:	stainless steel
package:	magnet plate
finishing:	polished stainless steel



GRM8 bracket for opened HP hoseline installation

GR Bracket

DESCRIPTION

GR Bracket is used for GRM8 in case of open installation of the high pressure hose line.

SPECIFICATIONS

dimensions, W x H x D, in:	1.97 x 3.4 x 3.54
material:	stainless steel
finishing:	polished stainless steel



Splitter for two PNS / PNM nozzle heads

M8 Tee

DESCRIPTION

On the front side of M8 Tee splitter there are two ports for screwing PNS / PNM nozzle heads, on the back side there is a port for connection to DKOL-M8 Ext.

SPECIFICATIONS

dimensions, W x H x D, in:	0.6 x 0.87 x 0.87
connections:	M8m-M8fes-M8fes
material:	stainless steel
finishing:	polished stainless steel

**Adapter for connection GRM8 to
DKOL-M8 Ext 15 / 70 / 140****M8mm**

DESCRIPTION

M8mm adapter is used to connect GRM8 splitter to the high pressure hose line through DKOL-M8 Ext 15 / 70 / 140



SPECIFICATIONS

dimensions ($\varnothing \times$ OD), in:	0.43 x 0.63
connections:	M8mes-M8m
material:	stainless steel

**Adapter for connection GRM8
directly to HP hoseline****M8CEL**

DESCRIPTION

M8CEL adapter is required to connect GRM8 splitter directly to the high pressure hose line without using a tee.



SPECIFICATIONS

dimensions ($\varnothing \times$ OD), in:	0.47 x 0.83
connections:	M8mes-CEL
material:	stainless steel

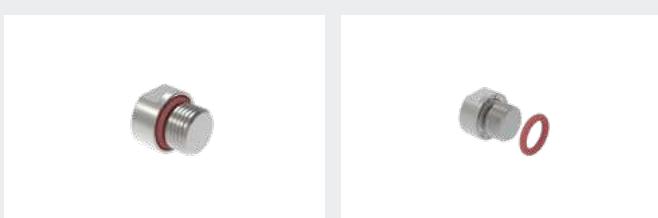


Plug for unused connections in GRM8

M8 Dot

DESCRIPTION

M8 Dot is used to plug unused ports of GRM8 splitter.



SPECIFICATIONS

dimensions (\varnothing x OD), in:	0.43 x 0.4
connections:	M8mes
material:	stainless steel

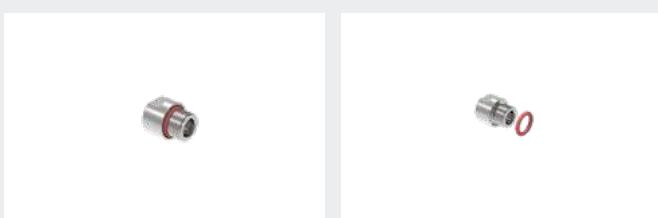


Adapter for installation of PNS / PNM to M8 Tee & GRM8

M8mf

DESCRIPTION

M8mf adapter is used to install PNS / PNM nozzle heads into GRM8 or M8 Tee splitters directly.



SPECIFICATIONS

dimensions (\varnothing x OD), in:	0.43 x 0.47
connections:	M8mes-M8f
material:	stainless steel



Swivel joint for installation of PNS / PNM to GRM8

M8 Pivot

DESCRIPTION

M8 Pivot joint is used to correct the direction of PNS / PNM nozzle heads. It consists of two parts, one of them is screwed into the splitter and the other one is used to screw the nozzle head in it. M8 Pivot is needed, for example, when two nozzles are screwed into GRM8 splitter and it is necessary to direct atomizing in different directions.

The maximum possible adjustment angle is 25 degrees.

SPECIFICATIONS

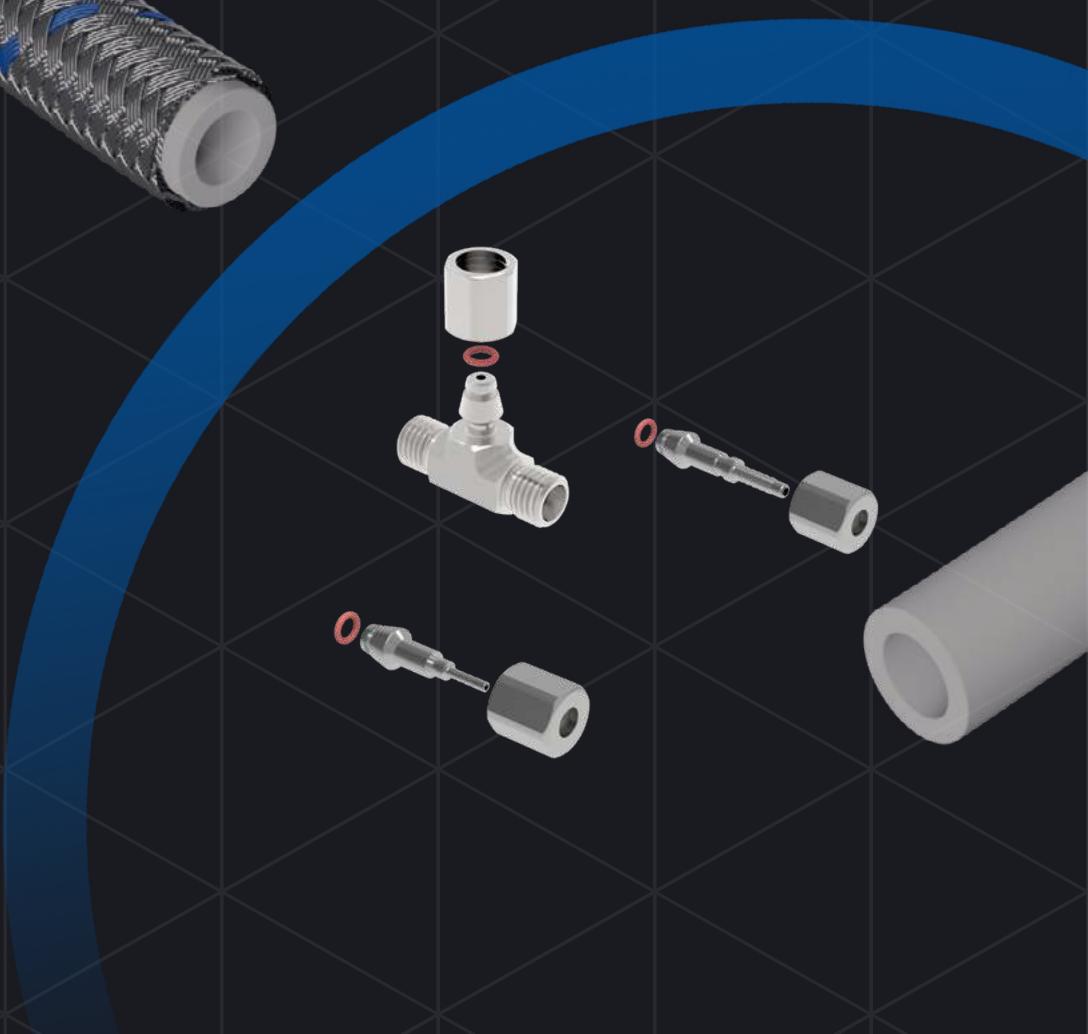
dimensions ($\varnothing \times$ OD), in:	0.43 x 0.9
material:	stainless steel
pivot angle, degrees:	25
connections:	M8mes-M8f



High pressure hose line & parts

The high pressure hose line in Liechty systems always forms a loop, coming from and returning to the central module.

This chapter shows the components that can be used to form a hose line: hoses, fittings, tees, etc.





HP hoses

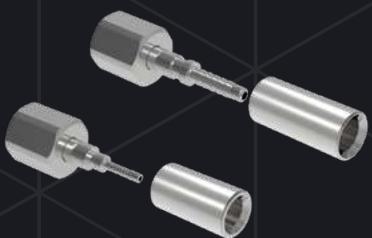
Pages 54

- extreme safety margin
- elastic structure makes installation easier
- chemically inert inner layer
- low adhesion, does not accumulate biofilms
- small OD makes it possible to install in finished interior



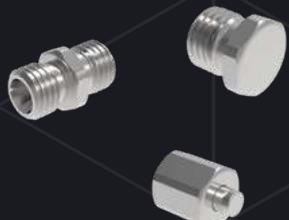
Tees

Pages 55



Fittings / Ferrules

Pages 56-57



Connector / Plugs

Pages 58-59



High pressure hose, 9/32"

HPH4

DESCRIPTION

HPH4 composite high-pressure hose consists of two layers: the inner layer is made of Teflon (PTFE-4), the outer layer is made of AISI 304 stainless steel. Teflon, also called PTFE provides a high level of hygiene as it is chemically inert and does not serve as a food for bacteria.

The stainless steel outer braiding provides a 15-times margin in burst pressure.

Due to its structure and exceptionally small outer diameter, the hose is highly flexible and suitable for installation even in finished interiors.

SPECIFICATIONS

outer diameter, in:	9/32
max. working pressure, psi:	4,000
burst pressure, psi:	13,800
min. bending radius, in:	1.6
inner layer material:	PTFE
outer layer material:	stainless steel AISI 304



High pressure hose, 5/32"

HPH2

DESCRIPTION

HPH2 composite high-pressure hose consists of two layers: the inner layer is made of Teflon (PTFE-4), the outer layer is made of AISI 304 stainless steel. Teflon, also called PTFE provides a high level of hygiene as it is chemically inert and does not serve as a food for bacteria.

The stainless steel outer braiding provides a 15-times margin in burst pressure.

Due to its structure and exceptionally small outer diameter, the hose is highly flexible and suitable for installation even in finished interiors.

SPECIFICATIONS

outer diameter, in:	5/32
max. working pressure, psi:	4,700
burst pressure, psi:	13,800
min. bending radius, in:	1.25
inner layer material:	PTFE
outer layer material:	stainless steel AISI 304

**CEL-CEL-DKOL Tee****TCCD**

DESCRIPTION

TCCD tee with CEL-CEL-DKOL connections is used for direct installation of SV active valve on the tee.

The tee is made of stainless steel AISI316L.

SPECIFICATIONS

dimensions, W x H x D, in:	42 x 31 x 19,5
material:	stainless steel
connections:	CEL-CEL-DKOL

**CEL-CEL-CEL Tee****TCCC**

DESCRIPTION

TCCC tee with CEL-CEL-CEL connections allows to make branches from the high-pressure hose line for installation of nozzles.

The tee is made of AISI316L stainless steel.

SPECIFICATIONS

dimensions, W x H x D, in:	40,5 x 28 x 13,5
material:	stainless steel
connections:	CEL-CEL-CEL

**DKOL fitting for HPH4****FITD4**

DESCRIPTION

FITD4 fitting is used to connect HPH4 hoses.



SPECIFICATIONS

dimensions ($\varnothing \times OD$), in:	0.6 x 1.6
material:	stainless steel
connections:	DKOL

**DKOL fitting for HPH2****FITD2**

DESCRIPTION

FITD2 fitting is used to connect HPH2 hoses.



SPECIFICATIONS

dimensions ($\varnothing \times OD$), in:	0.6 x 1.4
material:	stainless steel
connections:	DKOL

**Ferrule for HPH4****FER4**

DESCRIPTION

Crimping ferrule FER4 is used to fix FITD4 fitting.



SPECIFICATIONS

dimensions ($\varnothing \times OD$), in:

0.4 x 0.8

material:

stainless steel

**Ferrule for HPH2****FER2**

DESCRIPTION

Crimping ferrule FER2 is used to fix FITD2 fitting.



SPECIFICATIONS

dimensions ($\varnothing \times OD$), in:

0.3 x 0.6

material:

stainless steel

**Straight connector****STRCC****DESCRIPTION**

STRCC connector is used to extend crimped HPH4 or HPH2 hose branches or to connect DKOL-DKOL Ext with DKOL-M8 Ext flexible extenders.

**SPECIFICATIONS**

dimensions ($\varnothing \times$ OD), in:	0.46 x 0.94
material:	stainless steel
connections:	CEL-CEL

**Plug for DKOL****HPH Plug****DESCRIPTION**

HPH Plug is used to plug HPH4 / HPH2 ends and also used to plug TCCD port.

**SPECIFICATIONS**

dimensions ($\varnothing \times$ OD), in:	0.46 x 0.65
material:	stainless steel
connections:	CEL



Plug for CEL

HPH Cap

DESCRIPTION

HPH Plug is used to plug CEL ports at TCCC.



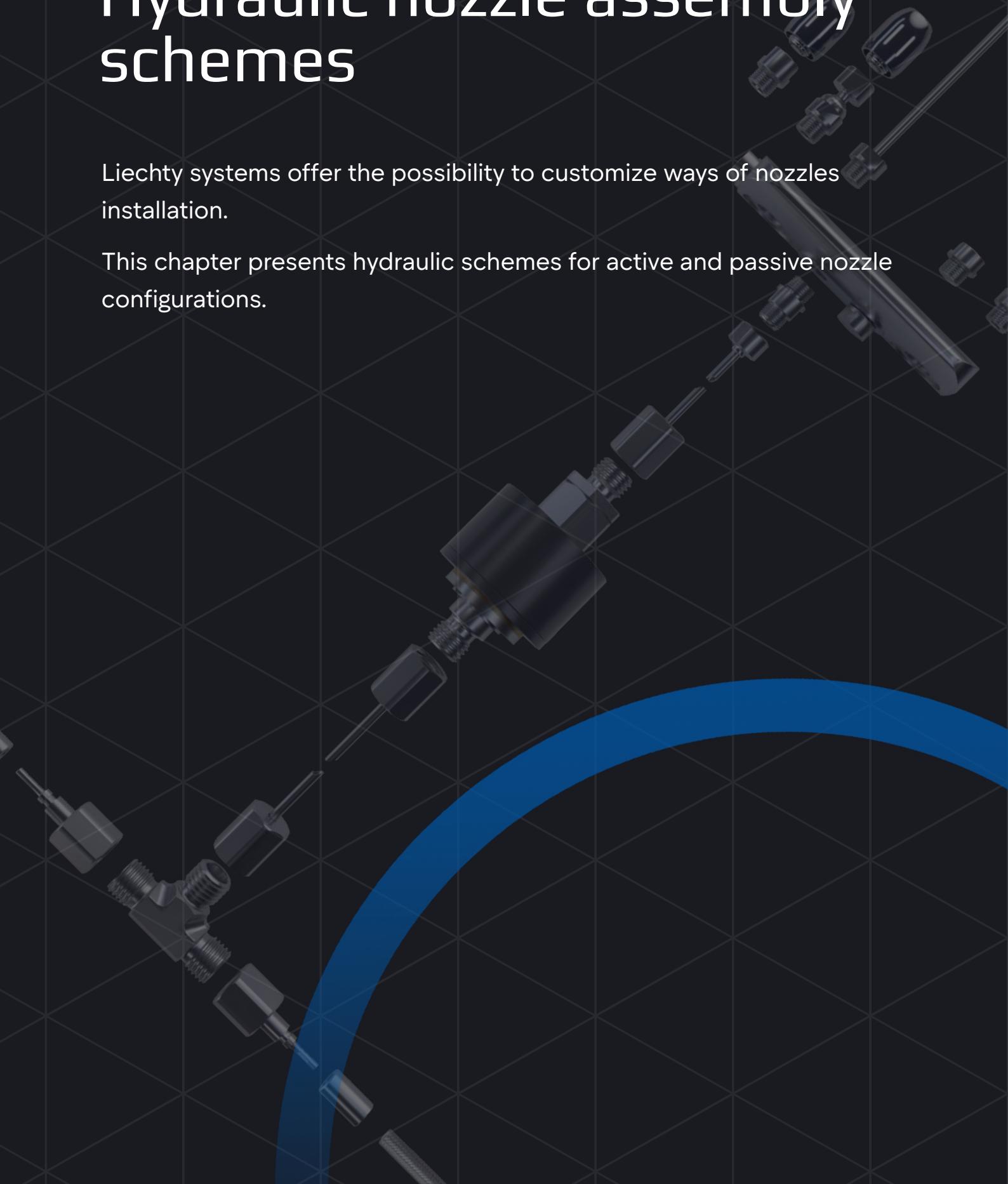
SPECIFICATIONS

dimensions (\varnothing x OD), in:	0.62 x 0.67
material:	stainless steel
тип connections:	DKOL

Hydraulic nozzle assembly schemes

Liechty systems offer the possibility to customize ways of nozzles installation.

This chapter presents hydraulic schemes for active and passive nozzle configurations.





Passive nozzle assembly schemes

Pages 62-64

- passive nozzle scheme for connecting via DKOL-M8 Ext flexible extenders
- passive nozzle scheme for operation via M8 Tee splitter
- passive nozzle scheme for operation via GRM8 splitter

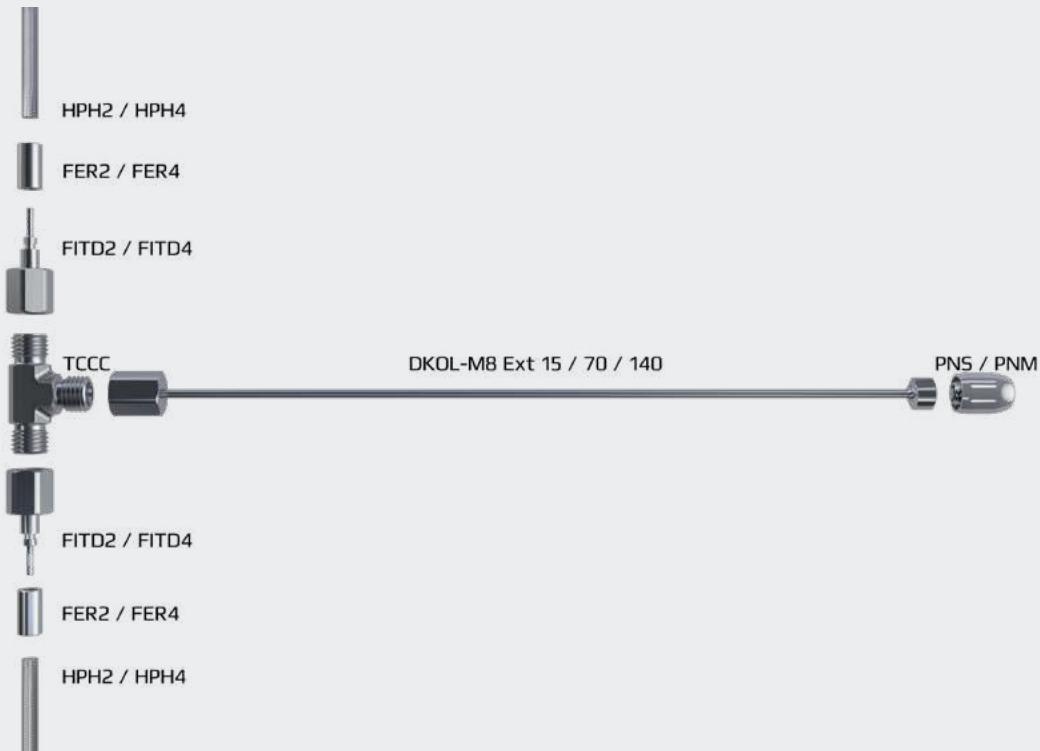


Active nozzle assembly schemes

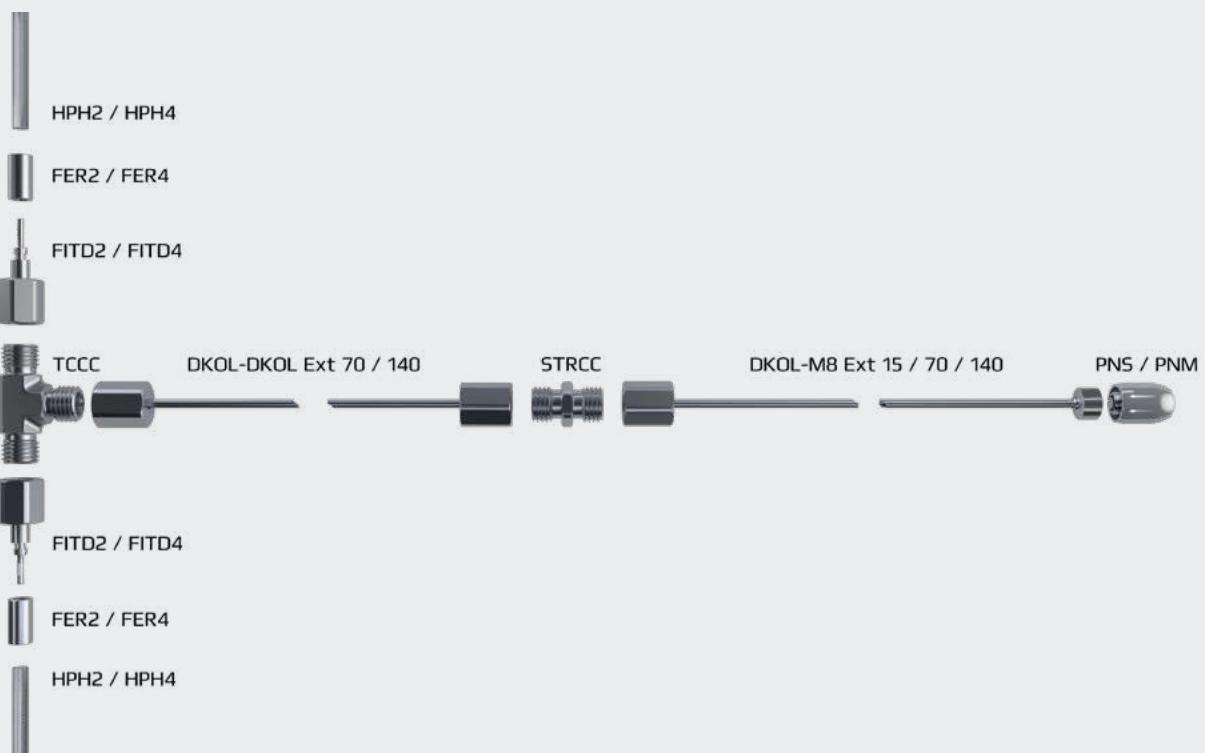
Pages 65-67

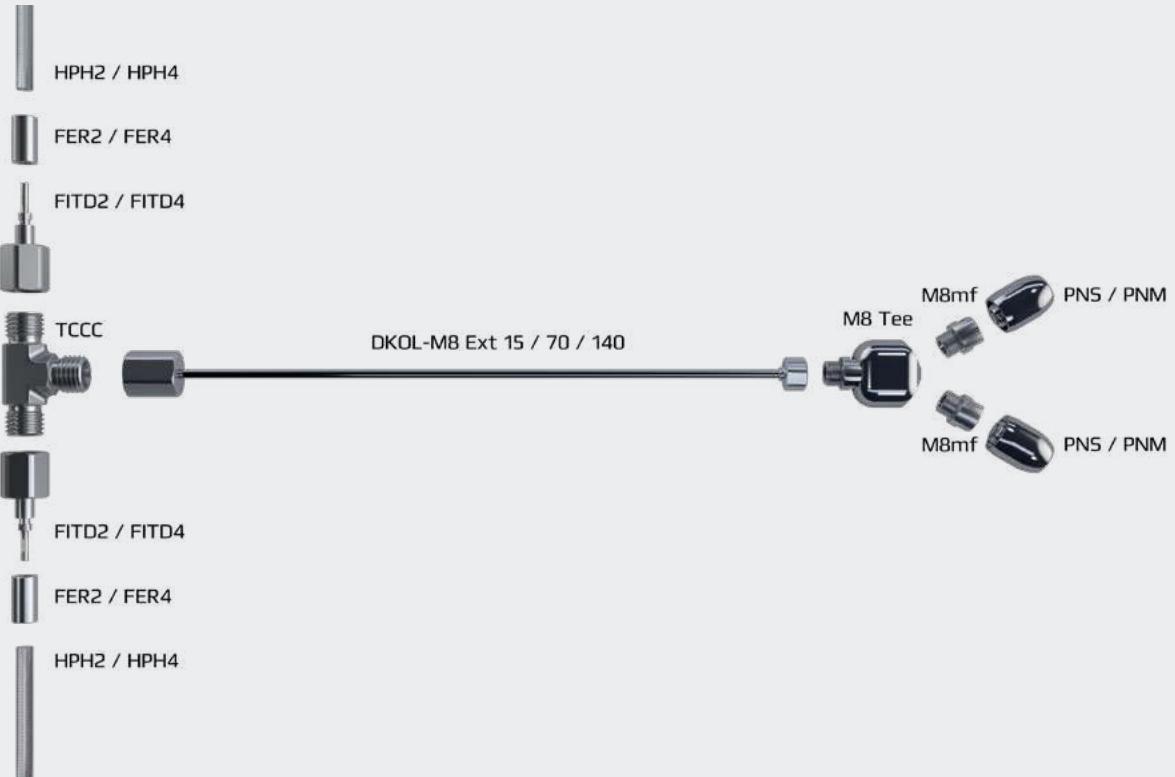
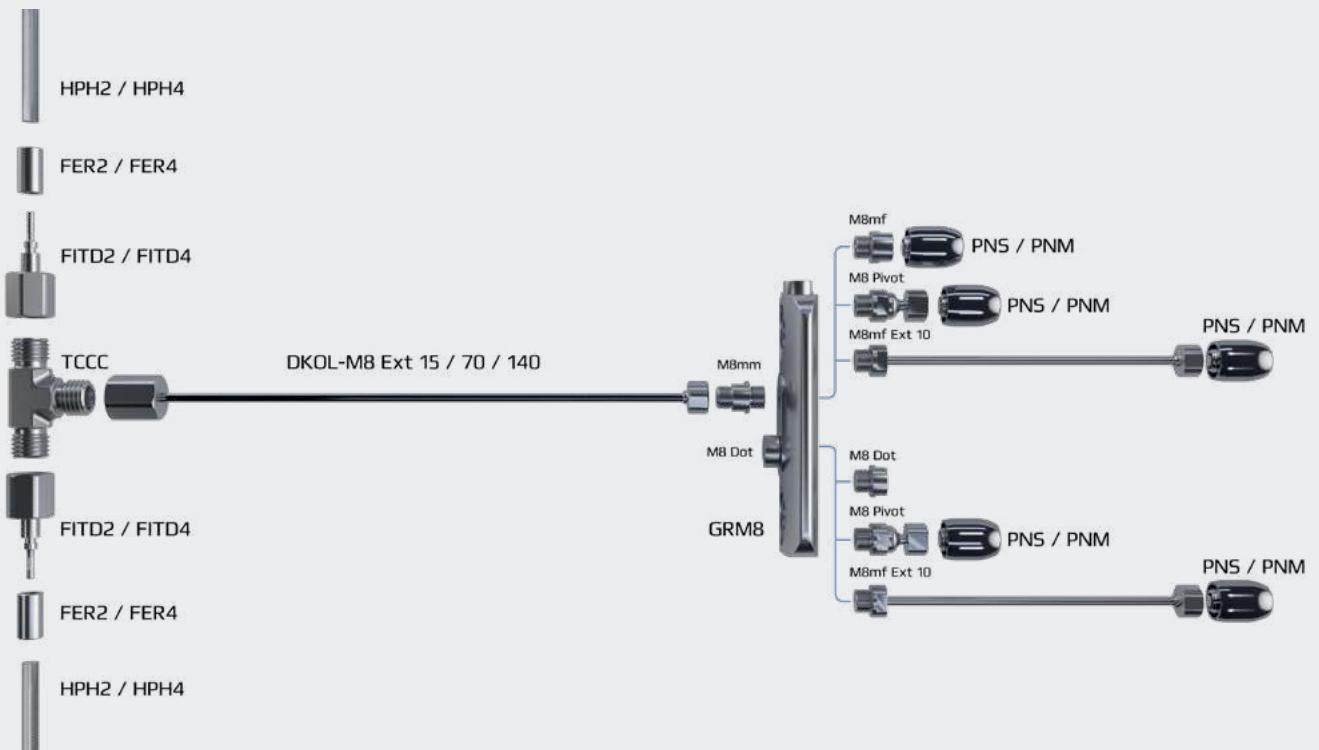
- active nozzle scheme for connecting via DKOL-M8 Ext flexible extenders
- active nozzle scheme for operation via M8 Tee splitter
- active nozzle scheme for operation via GRM8 splitter

**Passive nozzle scheme for connecting via
DKOL-M8 Ext flexible extenders**

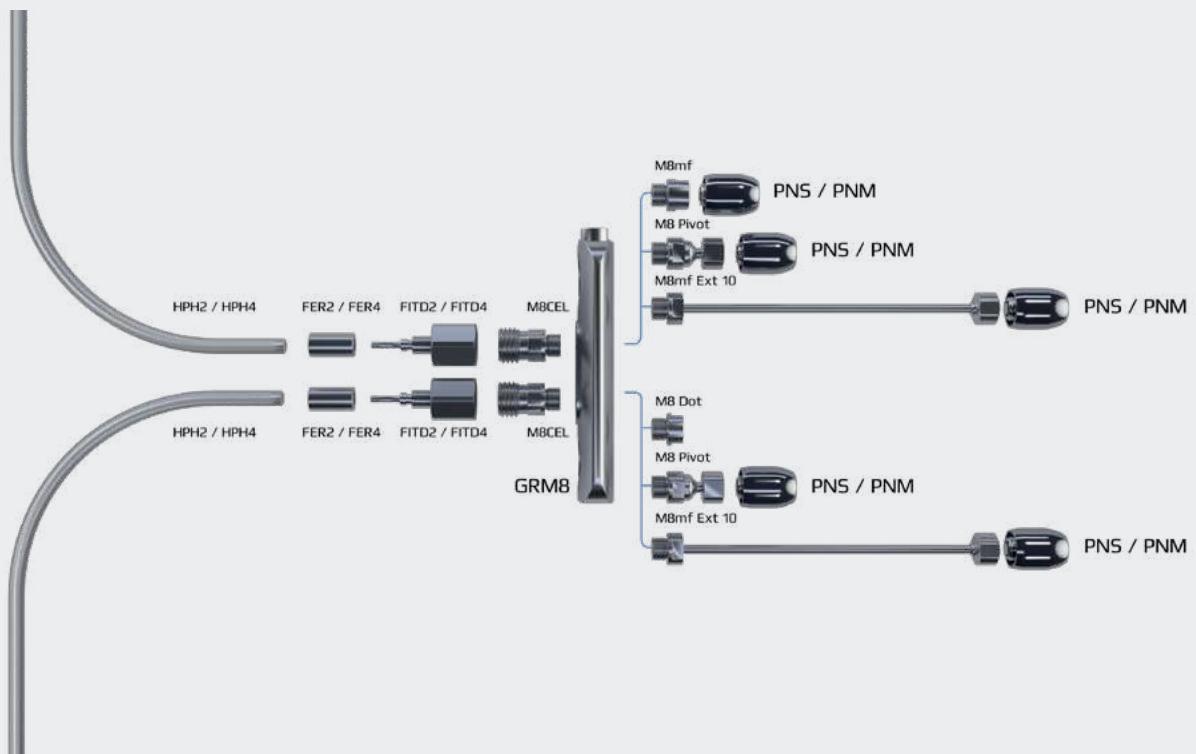


**Passive nozzle scheme for connecting via
DKOL-DKOL Ext & DKOL-M8 Ext flexible extenders**

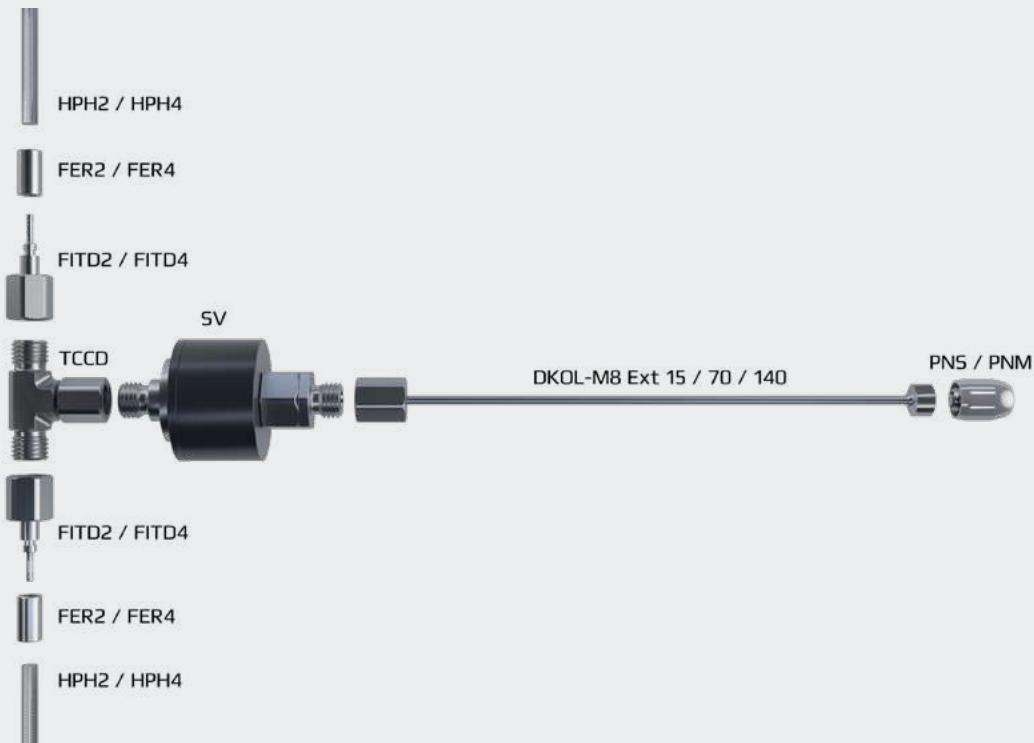


Passive nozzle scheme for operation via M8 Tee splitter & DKOL-M8 Ext flexible extender**Passive nozzle scheme for operation via GRM8 splitter & DKOL-M8 Ext flexible extender**

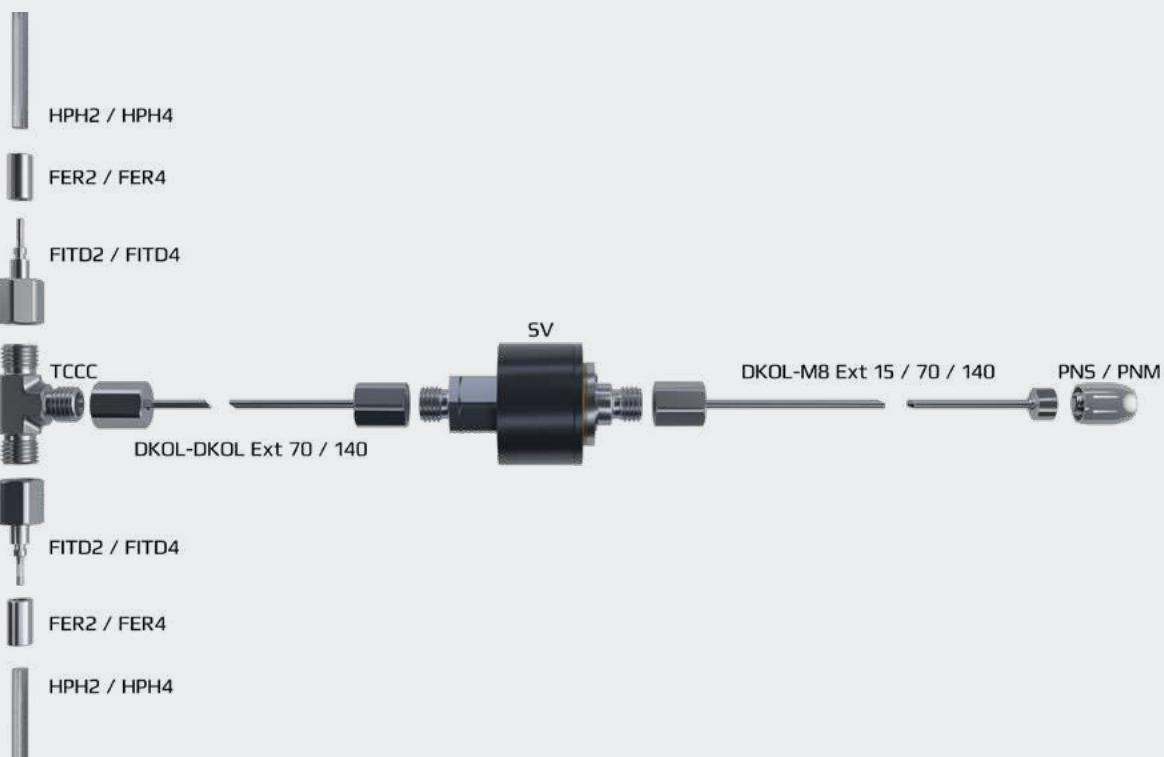
**Passive nozzle scheme for operation via
GRM8 splitter directly**



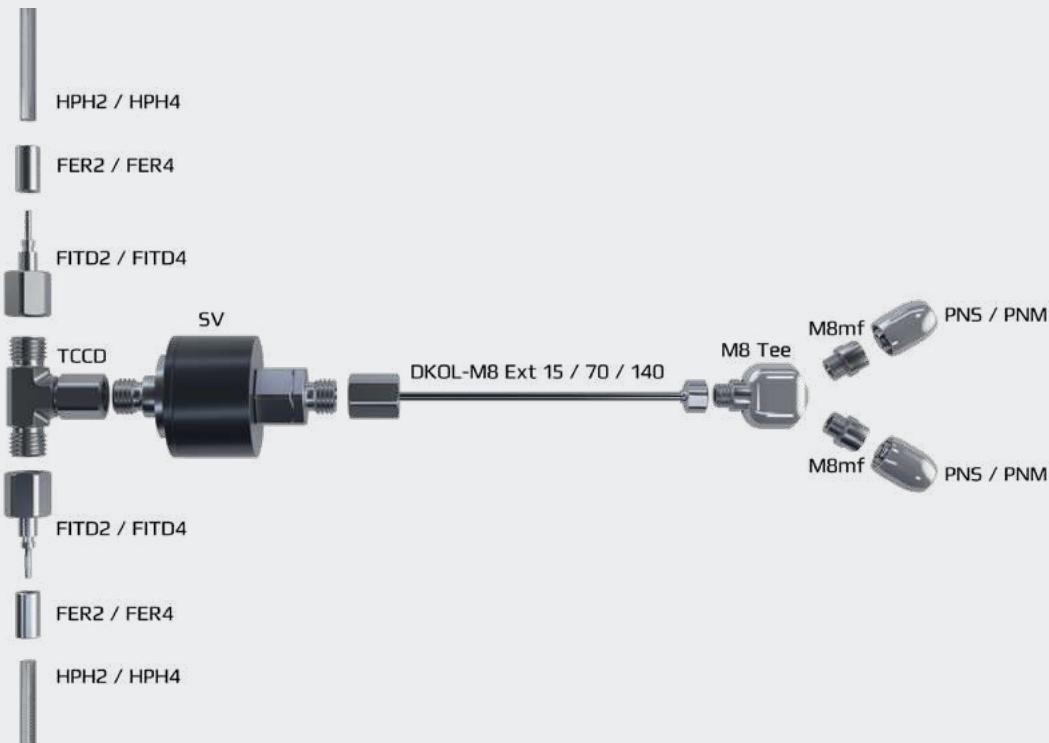
Active nozzle scheme for connecting to SV valve via DKOL-M8 Ext flexible extenders



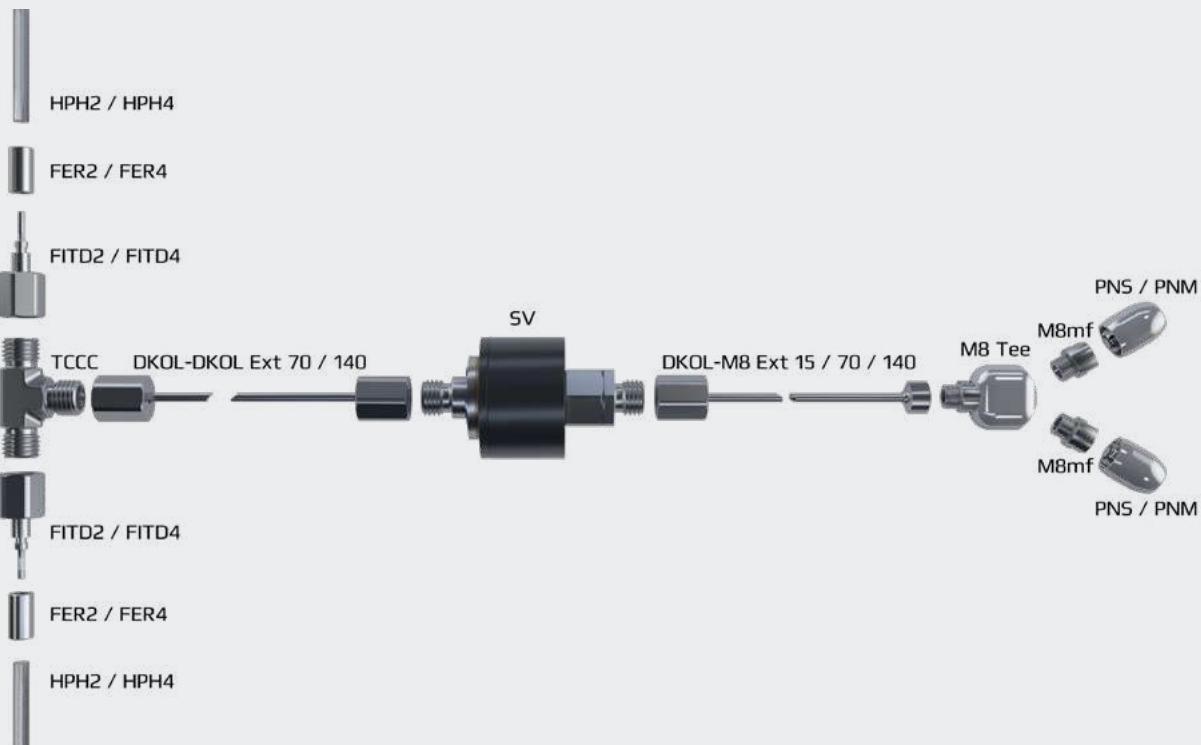
Active nozzle scheme for connecting to SV valve via DKOL-DKOL Ext & DKOL-M8 Ext flexible extenders



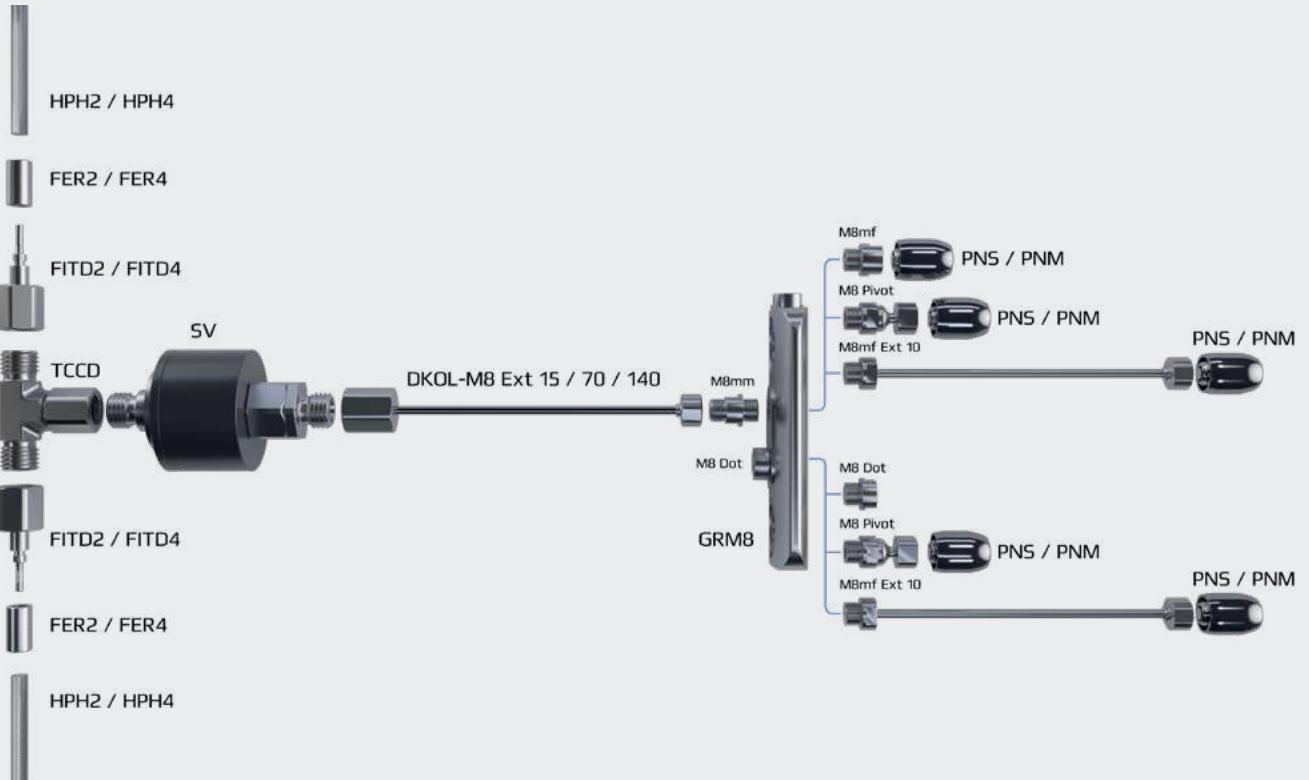
Active nozzle scheme for connecting to SV valve via M8 Tee splitter & DKOL-M8 Ext flexible extender



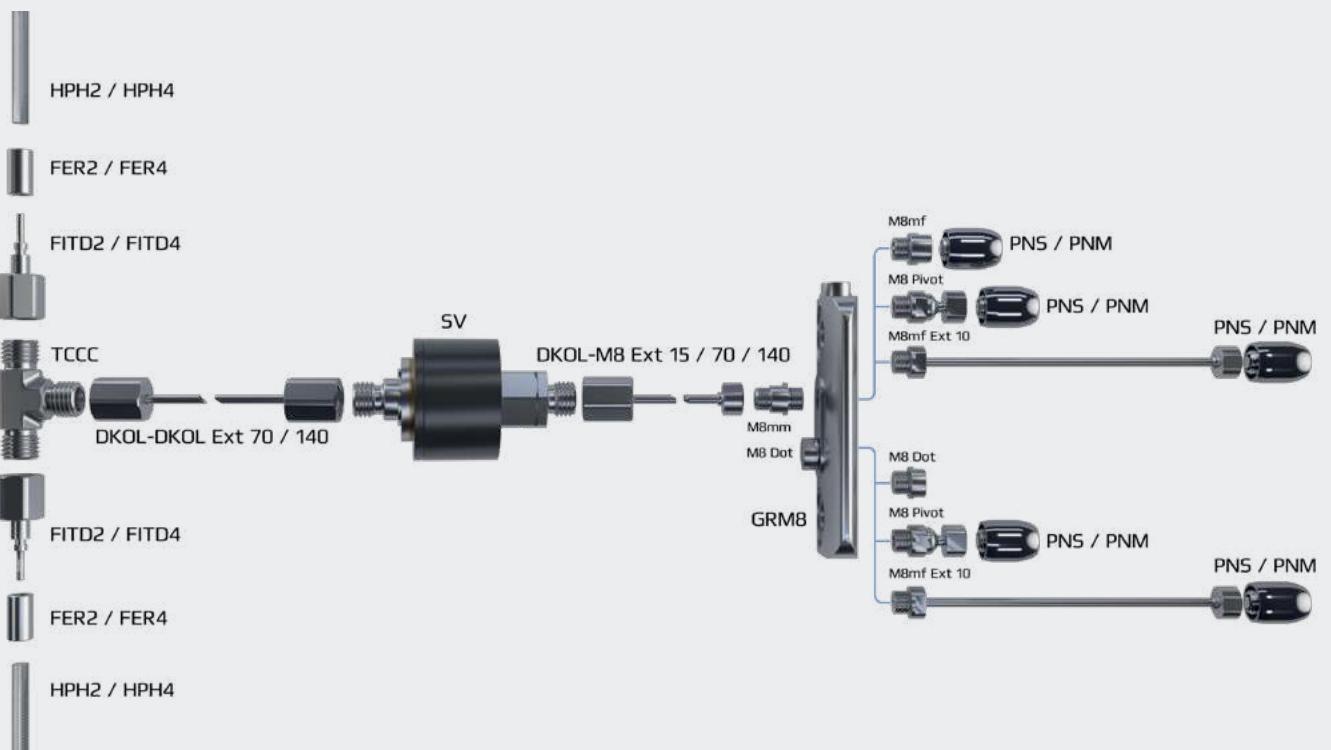
Active nozzle scheme for connecting to SV valve via M8 Tee splitter, DKOL-DKOL Ext & DKOL-M8 Ext flexible extenders



Active nozzle scheme for connecting to SV valve via GRM8 splitter & DKOL-M8 Ext flexible extender



Active nozzle scheme for connecting to SV valve via GRM8 splitter, DKOL-DKOL Ext & DKOL-M8 Ext flexible extenders







Head office



1260 Clarence Avenue, Winnipeg, Manitoba R3T 1T2



info@liechty-humidity.com



liechty.li