<KSH> FILTER NOZZLES

Type K1

Due to it's conical design, the filter nozzle type K1 are particularly resistant to pressure. The nozzle is equipped with a bottom disc for complete emptying up to the level of the nozzle floor.
Alternatively, the type KR1 has a closed bottom disc which prevents the loss of filter media on small contact surfaces (dia. <65mm).

Type D

Nozzles with cylindrically shaped slots which is often used in large sand filter plants. Through the special emptying, dead areas are avoided at the bottom of the filter tank. The arrangement of the slots ensures a horizontal spray behavior of the backwashing medium

Type C1

The larger outer diameter results in a higher filtration area. The arrangement of the slots ensures a horizontal distribution of the backwashing medium. The filter nozzles type C1 are often used in ion exchangers or activated carbon filters.

Type C2

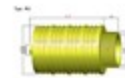
Filter nozzles based on the type C1, however, with increased free space. Due to the higher design, the nozzle dips deeper into the filter medium

Type K2

Hybrid from the C1 and K1. Due to the cylindrically shaped lower portion of the nozzle, a horizontal radiation effect is generated. The conical upper area absorbs any forces and ensures an upward distribution of the regenerate.

Type R2

The filter nozzle type R2 is particularly suitable for high volume flows. Due to the construction of the nozzle, various lengths are possible in increments of 53mm.



Type R3

The filter nozzle type R3 is suitable for very high volume flows. Due to the construction of the nozzle, various lengths are possible in increments of 72mm.

Type KSP

Nozzles based on the K1 type with expansion dowel for easy installation from above the nozzle floor. The dowel allows attachment in nozzle floor with a thickness of up to 45mm. When backwashing with air, we recommend the use of rubber washer type DG70.

Type DSP

Filter nozzles based on type D with expansion dowels for easy installation from above the nozzle floor. The dowel allows attachment in nozzle floor with a thickness of up to 45mm. When backwashing with air, we recommend the use of rubber washer DG50.

Type L/LR - Lamellar Nozzle

The stacked lamellar discs provide a particularly solid and massive filter nozzle which can withstand external pressures particularly well. Due to the special construction, even smallest slot widths of 0.1mm (+/-0,05mm) are available. The nozzle is equipped with a bottom disc for emptying to the level of the nozzle floor. Alternatively, the type LR has a closed bottom disc which prevents the loss of filter media on small contact surfaces (dia. <65mm).

Type S1

The slightly conical screen has an internal thread which allows to disassemble the nozzle without unscrewing the air cushion tube.

Type S3

The air cushion tube is inserted from below the nozzle floor and held in position by screwing the screen. This special type of mounting can compensate for slight misalignment of the nozzle bottom.

Type G - Rough Nozzles

Robust filter nozzle with a large slot width of 0.5mm (+/-0,05mm). Especially suitable for very coarse filter material.

Type V20 - SS316L Filter Nozzles

The filter nozzle V20 has a cylindrical head made of contact-welded triangular wedge wire. There are various stainless steel materials and slot sizes possible.

<KSH> FILTER NOZZLES

Filter Nozzles with flow limitation - Type PKU

Filter nozzle based on type P. The floating ball inside the air cushion tube reduces the flow during backwashing from below the nozzle floor. The resulting back pressure allows a better distribution of the regenerant. In the direction of filtration, the floating ball releases the opening again.

Filter Nozzles with flow limitation - Type PKO

Filter nozzle based on the type P. The sink body inside the air cushion tube reduces the flow during backwashing from above the nozzle floor. The resulting counter pressure allows a better distribution of the regenerant. In the direction of filtration, the floating ball releases the opening again.
Use e.g. in ion exchanger plants after the floating bed process.

Filter Nozzles with flow limitation - Type MDL

Filter nozzle for use in mixed-bed filter systems. The air cushion tube allows a even distribution of purging air. The floating ball inside the air cushion tube reduces the flow in the regeneration direction. The regeneration medium passes through the discs directly above the nozzle floor. That is how to achieve an optimal flow through the filter medium.

Counter Flow Valve - GVO

The counter-flow valve type GVO ensures a better distribution of regenerates during down flow regeneration. The floating ball in this case reduces the openings in the valve. During the filtration process, the valve is released again.

Filter Nozzles with flow limitation - Type P

The outer diameter of 90mm offers a particularly large filtration surface at low height.

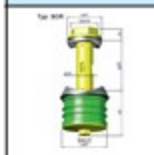
Filter Nozzles with flow limitation - Type M

Filter nozzle for use in mixed-bed filter systems. The air cushion tube allows a even distribution of purging air. The floating ball in the interior of the air cushion tube reduces the flow in the regeneration direction down to a defined annular gap in the interior of the nozzle.

Counter Flow Valve - Type GVU

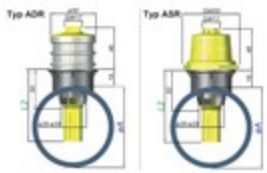
The counter-flow valve type GVU ensures a better distribution of regenerates during up flow regeneration.
The internal floating ball in this case reduces the openings in the valve. During the filtration process, the valve is released again.

FILTER NOZZLES FOR DRAINAGE SYSTEM



Type SCR

Due to the "screw-nut" principle, the filter nozzle type SCR is very firmly and securely mounted on the drainage pipe. The elastic tube saddles can compensate for minor unevenness of the drainage pipe.

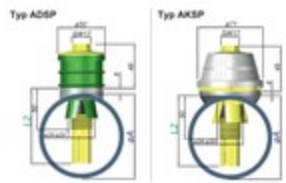


TYPE ADR & ASR

Filter nozzle based on type D & S filter nozzle for use with a pipe system. The nozzle is simply placed on the prepared drainage pipe for mounting and fixed with the help of the dowel. Filter nozzle based on type D filter nozzle for use with a pipe system. The nozzle is simply placed on the prepared drainage pipe for mounting and fixed with the help of the dowel.

Type DDR

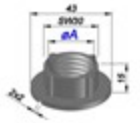
The filter nozzle set DDR has two filter nozzle screens and tubular saddles which make it possible to install at opposite positions in the drainage pipe.



TYPE ADSP & AKSP

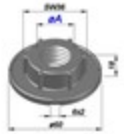
Filter nozzle based on type DSP & KSP for use with a pipe system. The elastic tube saddle can compensate small irregularities of the drainage pipe. For mounting, the nozzles are inserted through the pipe saddle in the prepared drainage pipe and fixed with the help of the expansion dowe

NUT & WASHER



Type MU43 - Nut

Fastening nut with a support diameter of 43mm. The nut can be used to mount the filter nozzle in nozzle plates with through holes.

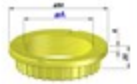


Type MU60 - Nut

Fastening nut with a support diameter of 60mm. The nut can be used to mount the filter nozzle in nozzle plates with through holes

Type MUZ - Nut

Combination of a nut and a toothed washer. The inserted toothing prevents unintentional loosening of the filter nozzles

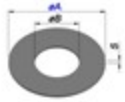


Type MU84 - Nut

Fastening nut with a support diameter of 84mm

Type SR50 - Screw

The plastic screw type SR50 serves to close threaded openings in the filter plate. In addition, it can be attached to the nozzle plate with the concrete sleeves. The thread length is adjustable and depends on the strength of the nozzle plate.



Type DP / DG – Washer

The washers made of plastic (type DP) or gasket made of Elastomer (type DG) can be used for height compensation or as seals. Depending on the nozzle type, the most varied outer and inner diameters can be selected.

SLEEVE & ACCESSORIES FOR CONCRETE FLOOR

Type B32 - Concrete Sleeve

The concrete sleeve type B32 is a plastic sleeve which is cast in the production of concrete filter floors. The sleeve thus creates the openings in the filter floor and for the filter nozzles to pass through. The length of the sleeves is free to choose depending on the desired concrete floor thickness.

Type BM32 - Sleeves for concrete floor

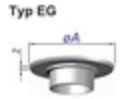
The concrete sleeve type BM32 is a plastic sleeve which is cast in the production of concrete filter floors. The sleeve thus creates the openings in the filter floor and for the filter nozzles to pass through. The length of the sleeves is free to choose depending on the desired concrete floor thickness.
Type BM32 is used for concreting with lost plate thickness.

Type SR – Screw

The plastic screw type SR50 serves to close threaded openings in the filter plate. In addition, it can be attached to the nozzle plate with the concrete sleeves. The thread length is adjustable and depends on the strength of the nozzle plate.

Type EA - Cap

Cap that prevents the entering of concrete into the sleeve during casting.



Type EG - Cap

Cap that prevents the penetration of concrete into the socket during casting and protects the thread against damage.