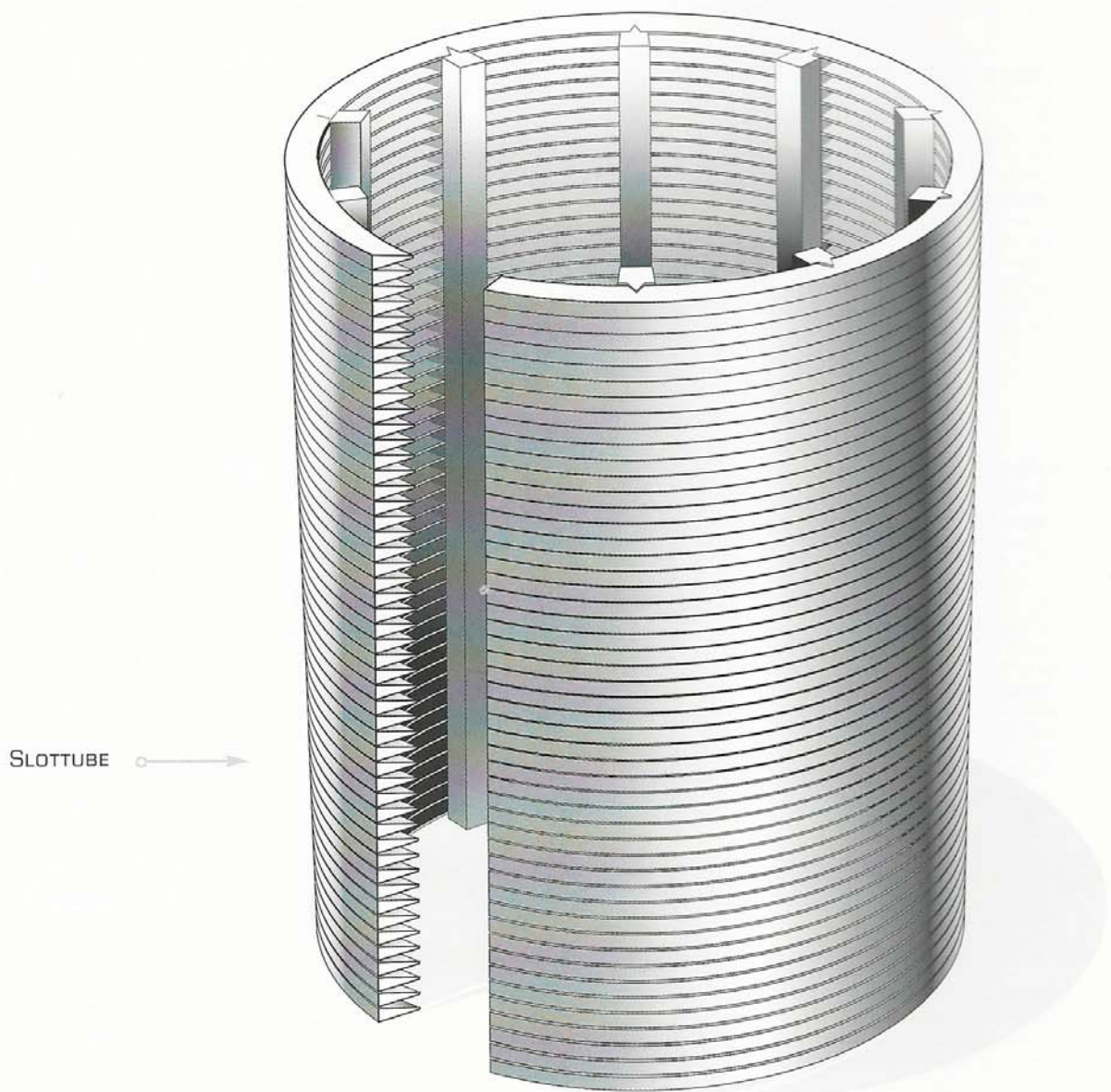


## 2. Trislot® slottubes

Trislot® slottubes are composed of a surface profile that is spirally wrapped around axial support profiles and attached to each other by resistance welding. These filter elements have the unique advantages of very accurate, narrow slot openings and perfect roundness all in one. Slottubes can be provided with the necessary endpieces for attachments and/or reinforcements.



## Standard constructions <sup>(1)</sup>

Profile	Support wires	Min $\emptyset$ <sup>(2)</sup> in mm	Min. slot width <sup>(3)</sup> in mm	O.D. in mm	Number of support profiles
6SC	Q25	24	0.05	30	8
10S	Q25	20.5	0.03	45	10
11S	Q20 or Q25	23	0.03	57	12
12S	225	30	0.05	70	18
	Q25	23	0.03	85	18
	Q35	30	0.05	97	20
18S	225 or Q35	30	0.05	110	24
	Q25	25	0.03	137	30
	D45	300	0.2	164	36
	10x3	300	0.2	215	48
22S	225 or Q35	45	0.05	268	48
	D45 or 10x3 or 25x3	300	0.2	305	40
28S	Q35	215	0.2	380	48
	D45 or 10x3 or 25x3	300	0.2	460	60
34S	Q35	300	0.2	510	64
	D45	300	0.2	625	80
	10x3 or 25x3	300	0.2	914	180
42S	Q35 or D45	300	0.2		
	10x3 or 25x3	300	0.2		

(1) Special constructions are possible on request.

(2) Each diameter requires new welding equipment. Therefore the standard diameters shown in the next table, are preferred.

(3) The minimum slot will increase when the diameter becomes bigger. Other diameters than these standards are available on request.

## Standard tolerances

Slotopening	$\pm 0.030$ mm (max. $\pm 0.050$ )	for O.D. $\leq 300$ mm
	$\pm 0.1$ mm (max. $\pm 0.2$ )	for O.D. $> 300$ mm
Diameter	$\pm 0.3$ mm	$\emptyset < 164$ mm
	$\pm 0.5$ mm	$\emptyset > 164 \leq 300$ mm
	$\pm 2.5$ mm	$\emptyset > 300$ mm
Length	$\pm 2$ mm	$\emptyset \leq 300$ mm
	$\pm 4$ mm	$\emptyset > 300$ mm

Tighter tolerances are possible on request through the use of special techniques.

## Special features

Inverted profile for filtration in to out with support profiles at the inside, is possible for most profile combinations.

REVERSED PROFILE



Variable slotopening is possible for slottubes with outside diameter up to 914 mm.



CONTINUOUS CYLINDERS

By using a lot of support profiles, an axial slot can be obtained. These filter elements are called continuous cylinders. The minimum slot width is 0,1 mm.

### Finishing touch of the end surfaces

Standard {  
- grinding end surfaces  
- remove the loose profile ends  
- degreasing and pickling

Optional {  
- fasten loose profile ends  
- remove the burrs of the profile ends  
- post machining for tighter tolerances

**Standard endpieces are always welded onto the support profiles**

- welding ring + closure plate (Fig. 1)
- resistance welded closure plate (Fig. 2)
- ending (Fig. 3)
- threaded fitting (for diameter  $\geq 45$  mm) (Fig. 4)
- flange (Fig. 5)
- welding ring + threaded fitting (for diameter  $< 45$  mm) (Fig. 6)

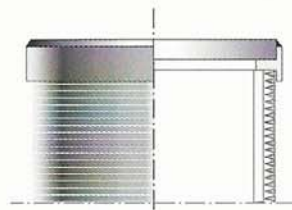


Fig. 1

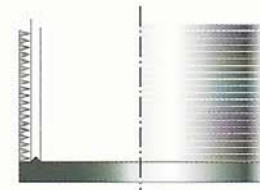


Fig. 2

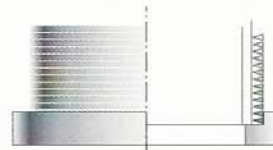


Fig. 3

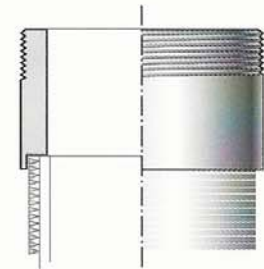


Fig. 4

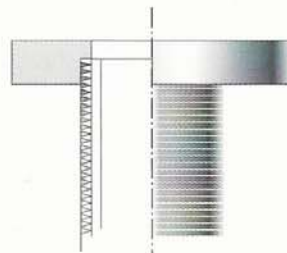


Fig. 5

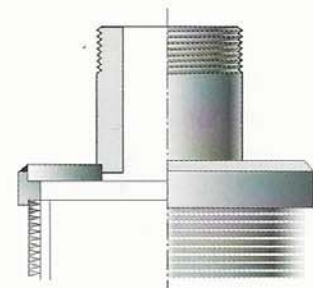
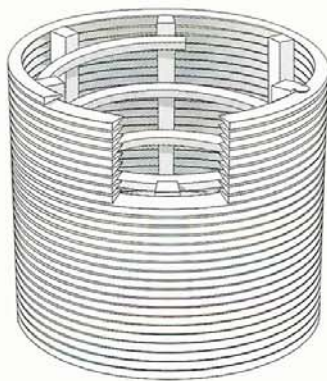


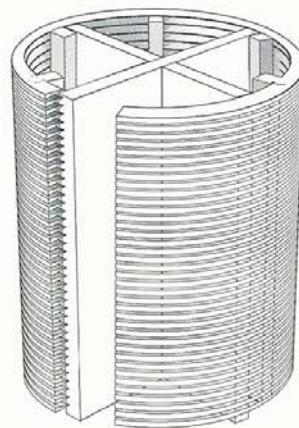
Fig. 6

**Reinforcing the slottubes is possible through:**

- more or stronger support profiles
- reinforcement spiral
- reinforcement cross
- perforated reinforcement tube (used as distributor of the fluid over the slottube)



REINFORCEMENT SPIRAL



REINFORCEMENT CROSS



PERFORATED REINFORCEMENT TUBE

If the slottubes are used as a carrier for another filtermedium for example textile, round wire can be applied. These support elements can be welded with 1, 2 or 3 wires next to each other.

**Technical information:**

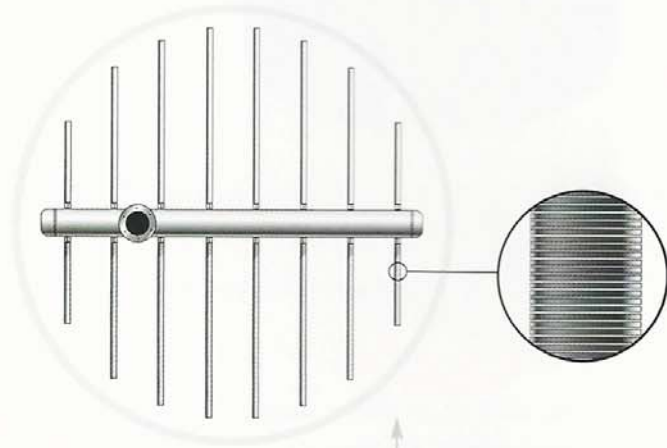
- diameter: ± 25 to 40 mm
- standard profiles: spiral wire: ø 0.8 mm  
support wire: ø 2 mm

SUPPORT ELEMENT

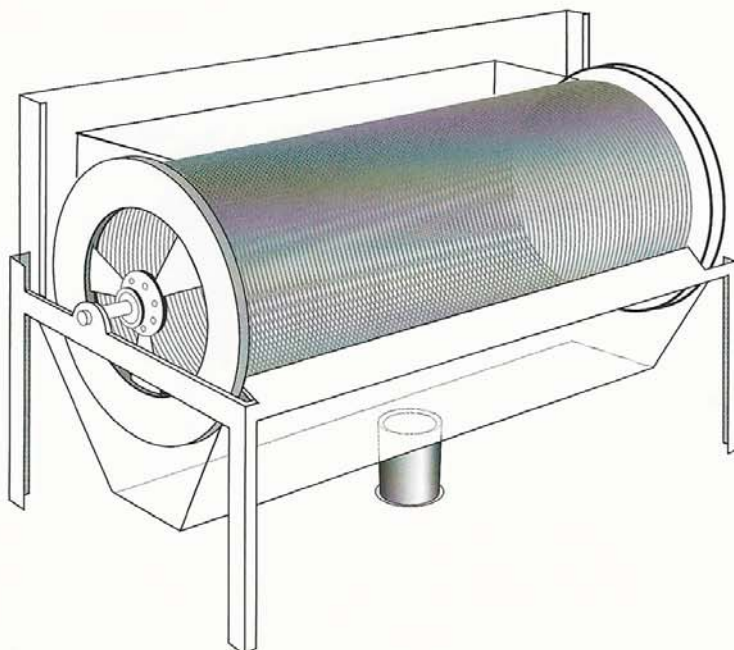


**Applications**

- candle filters
- nozzles
- resin traps
- baskets
- distributor & collector laterals
- water intake screen
- smoke gas filtration
- rotary screen
- ...



DISTRIBUTOR & COLLECTOR LATERALS



ROTARY SCREEN