

REKO PRESSURE-FED SIEVE BEND



for separating solids 50 µm - 250 µm



[Water treatment](#) [Wastewater systems](#) [Sieve bends](#)

Description

The REKO pressure-fed sieve bend is a filtration solution for separating solids from wastewater and process water by means of a curved wedge wire screen plate. REKO pressure-fed sieve bends are distinguished by their simple design, continuous operation and minimal maintenance. They require no consumables, which contributes to their excellent price/performance ratio.

Operating principle

The operation of the REKO pressure-fed sieve bend is based on the well-established technology of the standard sieve bend. By aiming a nozzle tangentially at the screen plate, exceptionally fine filtration can be achieved. While a traditional sieve bend can be used with slot widths down to 150 microns, a pressure-fed sieve bend can have a slot width as small as 50 microns.

A feed pump supplies the water to the screen plate via the nozzle. Depending on the size of the pressure-fed sieve bend, there will be between 1 and 9 nozzles.

Selecting the right nozzles in combination with the screen plate ensures optimum filtration performance. The clean water passes through the screen plate to the inner container, from where it flows away via the outlet connection. The separated solids move across the screen plate, allowing them to drain, settle and ultimately drop down for collection in a container, screw conveyor or dewatering press. The pressure-fed sieve bend is equipped as standard with a hinged cover with gas springs.

Applications

- o horticulture
- o manufacturing industry
- o vegetable, fruit and potato processing industry
- o abattoirs
- o fish industry
- o wastewater flows
- o sewage treatment
- o paper and pulp industry



Advantages

- o no consumables
- o exceptionally fine filtration
- o continuous separation
- o small footprint compared with capacity
- o no moving parts that are subject to wear
- o does not chop/pulverise the solids
- o high capacities are possible
- o excellent financial benefits
- o filter plates are easy to exchange

Specifications

- o feed pressure: 1.5-3 bar
- o materials:
 - housing: AISI 304
 - cover: AISI 304
 - screen plate: AISI 316
 - flanges: rvs 304
 - gas springs: steel with coating
 - clamp segments: PP
 - seals: silicone / neoprene
- o slot width: 80 microns (other slot widths can be supplied on request)
- o capacity per nozzle $\varnothing 20\text{mm}$: 18 m³/h @ 2 bar

Options

- o choice of slot width between 50 and 250 microns (80 microns is standard)
- o different nozzle diameters: $\varnothing 14$, $\varnothing 16$ or $\varnothing 20\text{mm}$

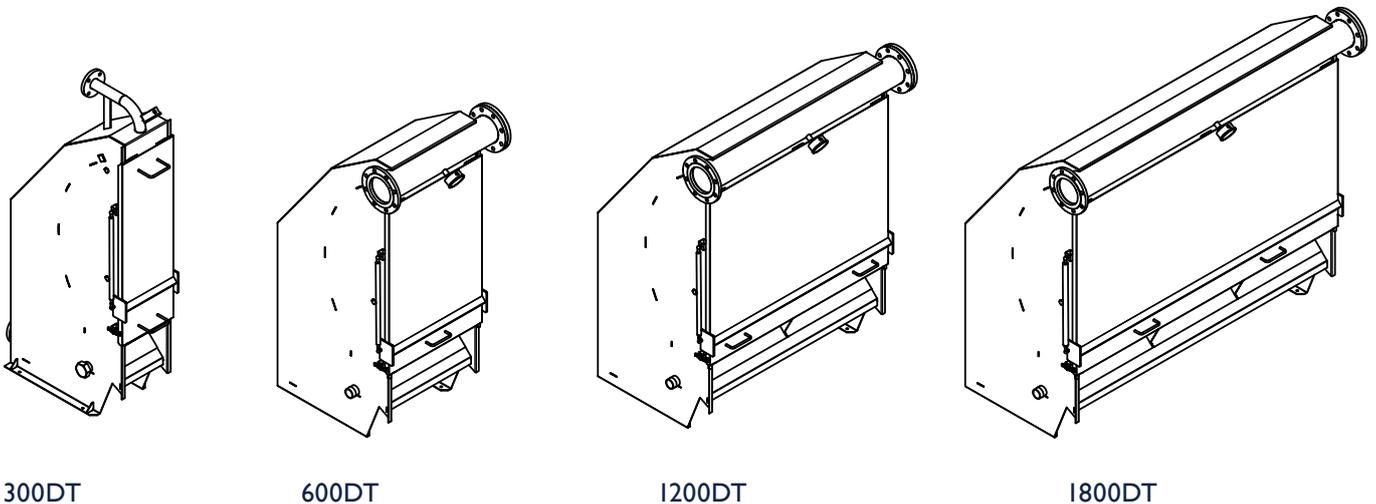
Accessories

- o plastic collecting tray
- o feed pump (dry mount and submersible)
- o level switches
- o dirt funnel: aluminium or stainless steel
- o dirt container with dirt filter and drain
- o stainless steel frame of any specified height
- o control box

Variants

MODEL	FEED CONNECTION	OUTLET CONNECTION	SIZES (LxBxH)	WEIGHT	NUMBER OF NOZZLES	CAPACITY*
300DT	DN50 PN10 alu	DN80 PN10 alu	2184 × 439 × 2169 mm	150 kg	1	18 m ³ /h @ 2 bar
600DT	DN150 PN10 alu	DN150 PN10 alu	2087 × 891 × 1997 mm	220 kg	3	54 m ³ /h @ 2 bar
1200DT	DN150 PN10 alu	DN200 PN10 alu	2087 × 1559 × 1997 mm	350 kg	6	108 m ³ /h @ 2 bar
1800DT	DN150 PN10 alu	DN250 PN10 alu	2087 × 2228 × 1997 mm	480 kg	9	162 m ³ /h @ 2 bar

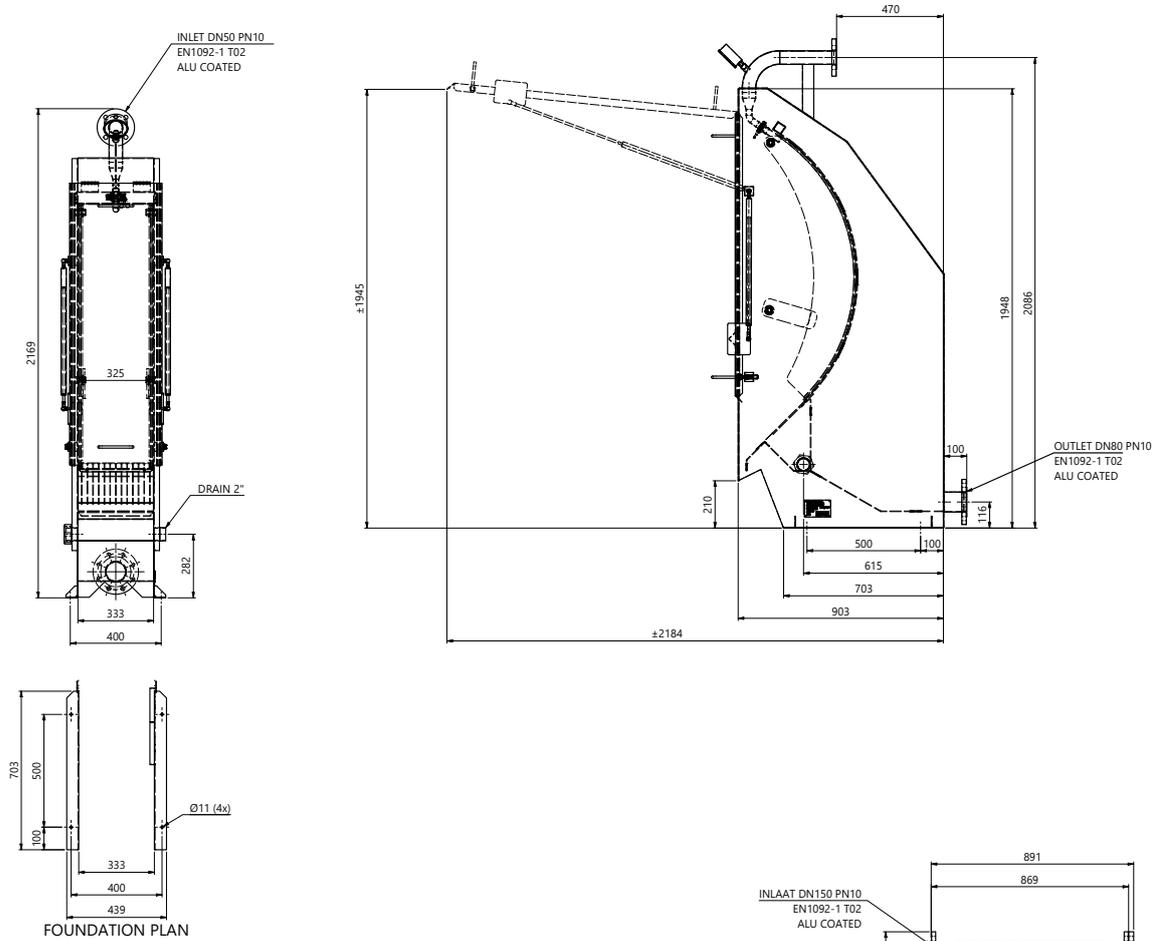
* with clean water and slot width 0,8 mm



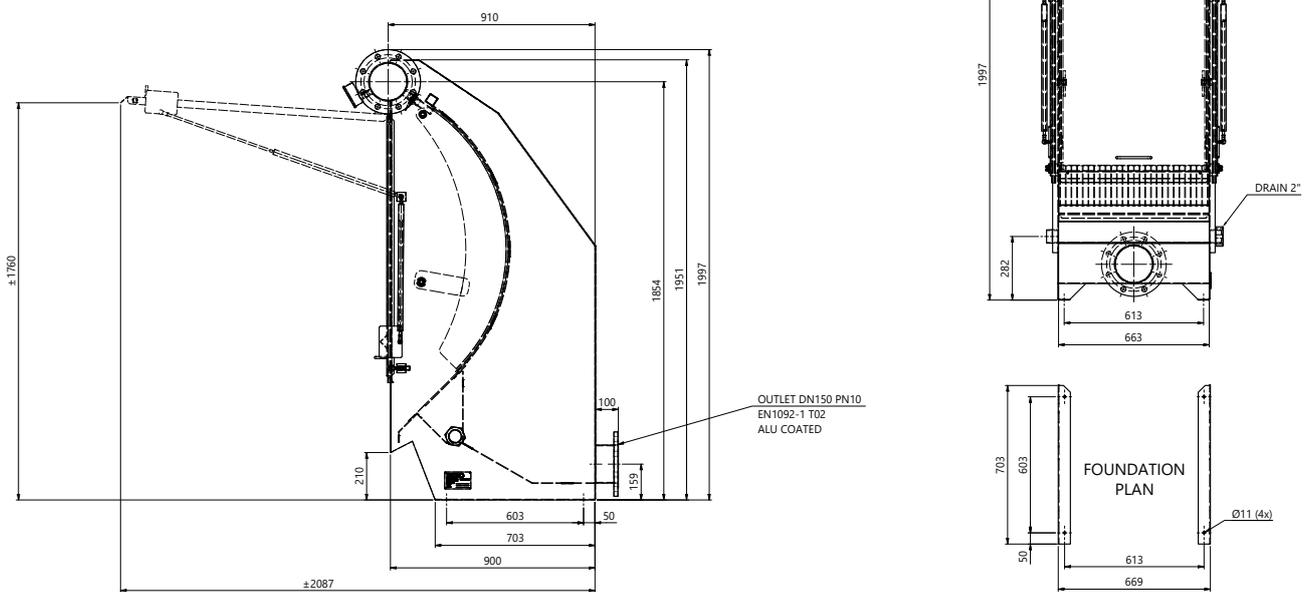
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Technical drawing sieve bend 300 DT

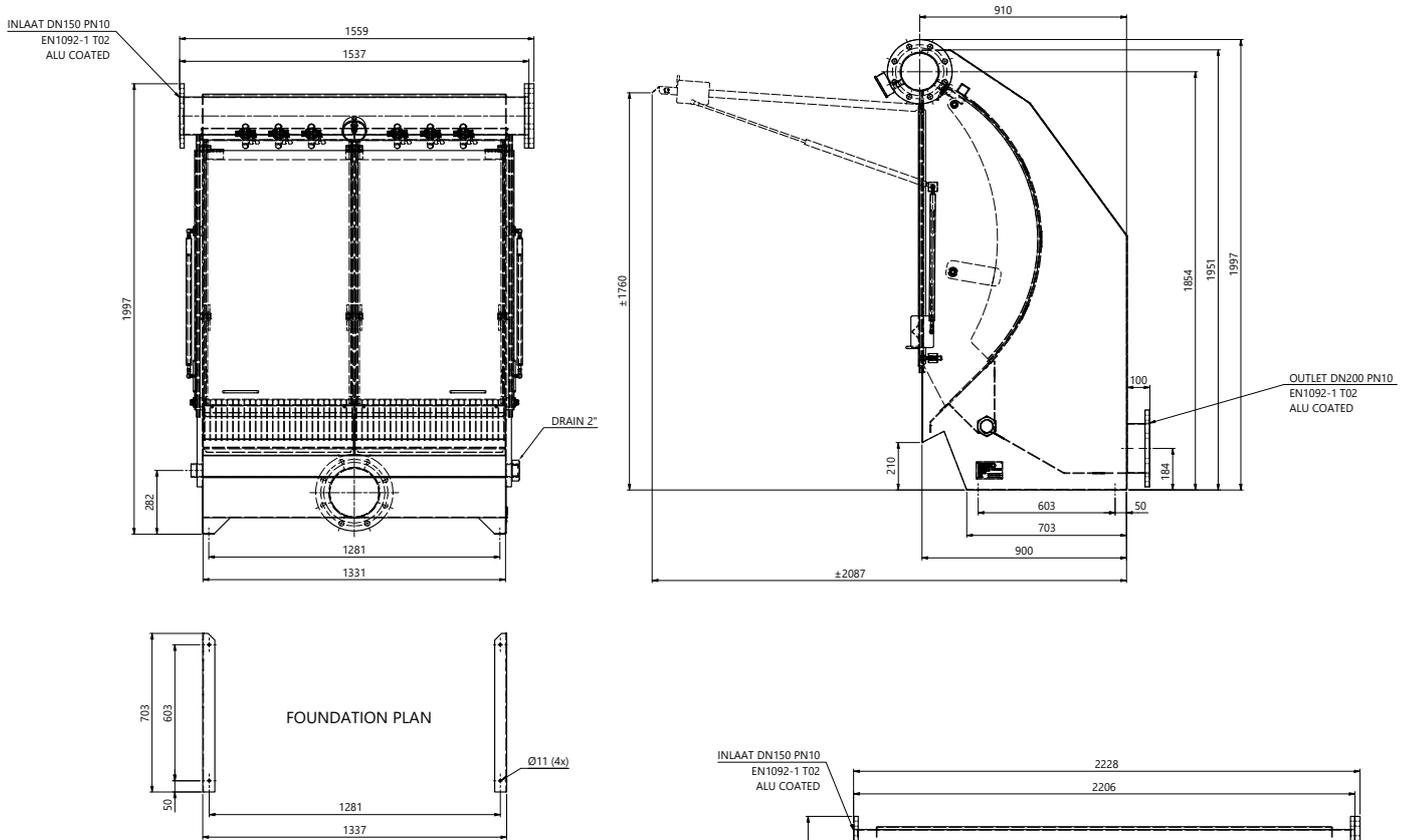


Technical drawing sieve bend 600 DT





Technical drawing sieve bend 1200 DT



Technical drawing sieve bend 1800 DT

