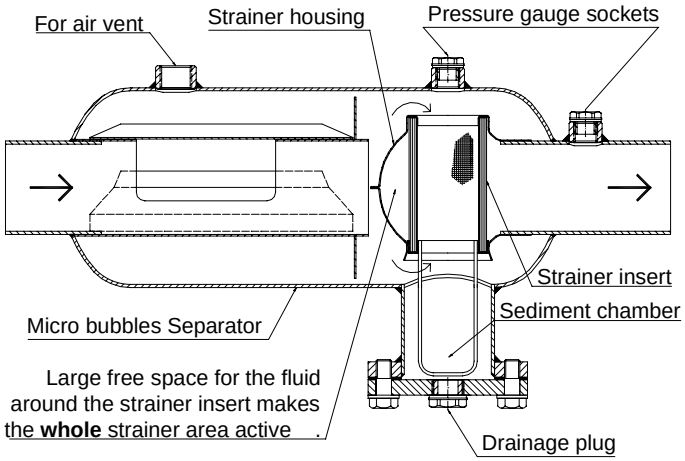
NONAIR® Micro bubbles Separator with built-in Strainer

This model of **NONAIR**® Micro bubbles Separator is designed to remove both air and dirt from circulating heating and chilled water systems. Floating particles will be trapped in the Strainer. Dirt, sludge and solid particles are collected in the sediment chamber.



DESIGN

The socket at the top of the body, is for **air outlet**. Use a **reliable** Air-Vent with ball valve.
The socket at the top of the body at the outlet, is for **pressure gauge**.
The thread in the cover plate for the strainer insert, is for **drainage**. Use a ball valve with corresponding size.
Reduction and blanking plugs has O-ring sealing of EPDM/NBR-material
Strainer insert have 0,6 mm mesh as standard.
Strainer area is 8 times the area for the connecting pipe.
Design pressure: PN10, 10 bar. Design temperature: 110ºC

CONNECTIONS

Nonair® is mainly made of acid-resistant Stainless Steel material 316L
The units are available with various connection alternatives:

SOCKET connection with sockets made of Stainless Steel material 316L.
Available with female and male threads.
Is used at threaded pipe joint with Stainless or Carbon Steel pipes.

WELDING ENDS 316L with welding ends made of Stainless Steel material 316L.
Is used at welded pipe joint with Stainless Steel pipes.

WELDING ENDS Carbon Steel with welding ends of Steel material acc. to DIN 171 75.
Is used at welded pipe joint with Carbon Steel pipes.

FLANGE connection with welding collars made of Stainless Steel material 316L and loose flanges of Silumin.
Is used at flanged pipe joint with Stainless or Carbon Steel pipes.

GROOVED connection with grooved ends of Steel material acc. to DIN 171 75.
Is used at grooved pipe joint with Victualic®, Grinnell® or similar couplings.

OPERATION FIGURES

Dimensioning: Choose the same dimension as the pipe it is connected with.
Pressure drop, Start: For clean strainer insert according to diagram on next page..
Pressure drop, Final: This is the level when cleaning of the strainer insert is needed. Due to the great active strainer area there will be long interval before cleaning is needed.

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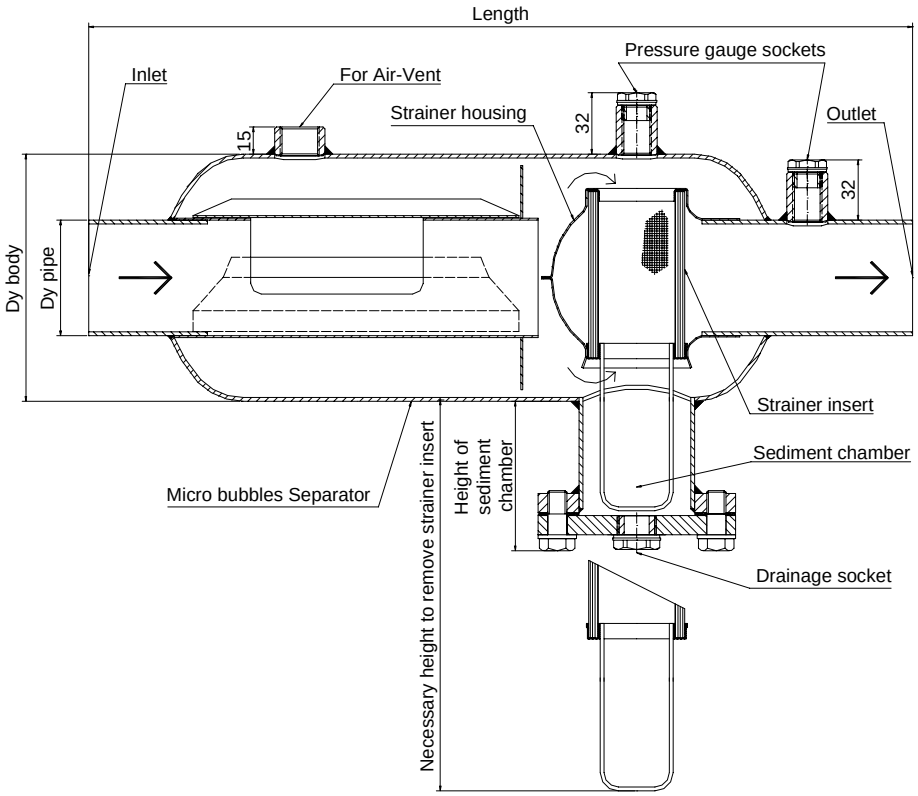

Table for weight, length etc

						SOCKET		
						female	male	all
DIM	**Dy**	**volume**	**sockets**		**thread**	**length**		**weight**
	mm	litre	air	gauge	drain	mm		kg
R 50 (2")	129	4	1x 1/2"	2x3/8"	1x1/2"	480	520	4,6

						WELDING ENDS				FLANGE		GROOVED	
						316L		carbon steel					
DIM	**Dy**	**volume**	**sockets**		**thread**	**length**	**weight**	**length**	**weight**	**length**	**weight**	**length**	**weight**
	mm	litre	air	gauge	drain	mm	kg	mm	kg	mm	kg	mm	kg
DN 50 (60,3)	129	4	1x 1/2"	2x3/8"	1x1/2"	430	4,2	480	4,4	455	5,9	520	4,4
DN 65 (76,1)	154	7	1x 1/2"	2x3/8"	1x1/2"	500	5,5	550	5,8	525	7,9	590	5,8
DN 80 (88,9)	168	9	1x 1/2"	2x3/8"	1x1/2"	560	9,1	610	9,4	585	12	650	9,4
DN 100 (114,3)	204	15	1x 1/2"	2x3/8"	1x1/2"	635	13	695	14	670	17	735	14
DN 125 (139,7)	256	28	2x 1/2"	2x3/8"	1x1/2"	720	15	780	16	755	20	820	16
DN 150 (168,3)	306	46	2x 1/2"	2x3/8"	1x1/2"	825	30	885	21	860	26	925	21

DIM	**height, mm**	
	sediment chamber	clearance for strainer insert
DN 50 (60,3)	95	250
DN 65 (76,1)	95	270
DN 80 (88,9)	95	285
DN 100 (114,3)	115	360
DN 125 (139,7)	115	395
DN 150 (168,3)	115	440

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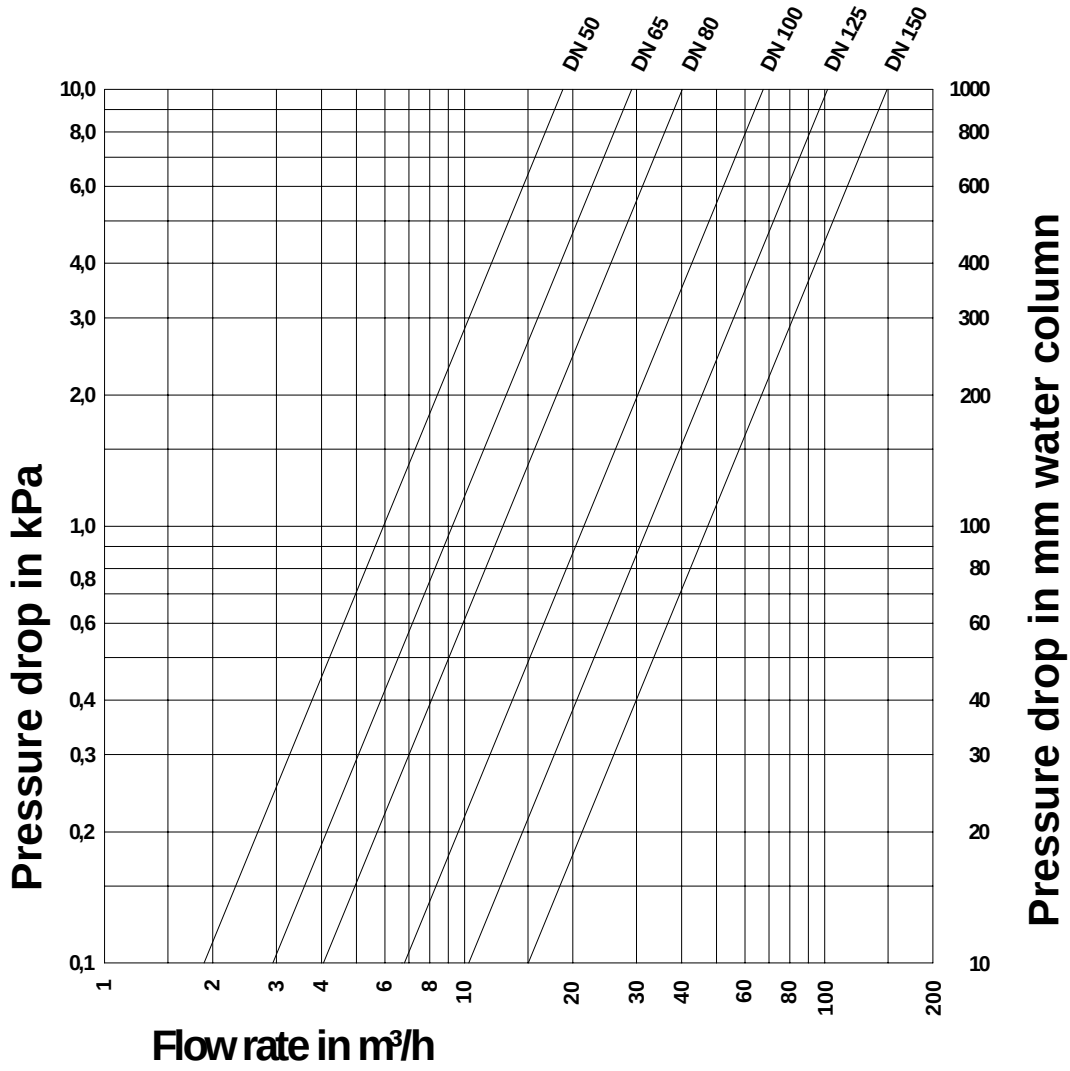
Diagram for pressure drop over the Strainer insert



The diagram shows the pressure drop over a clean strainer insert with mesh size 0,6 mm.
Valid for water without additives.