



Product information

Particle separator in steel with weld ends

Dimension range (DN)	50 - 300
PN	10
Temperature (°C)	0 - 110
Main material	Steel

Area of use

Exdirt D, for effective separation of magnetic, non-magnetic particles and sludge in heating and cooling systems where the fluid is water. It can also be installed in systems with mixtures of water/glycols, but with a maximum concentration of 50%. Not suitable for systems with mixtures of water/salts.

By applying a particle separator in the system, sludge and particles with a size down to 5 micrometers ($>5\mu\text{m}$) are separated, reducing the risk of flow disturbances and circulation problems. It contributes to increased operational reliability under difficult operating conditions and reduces the need for maintenance.

Tender text

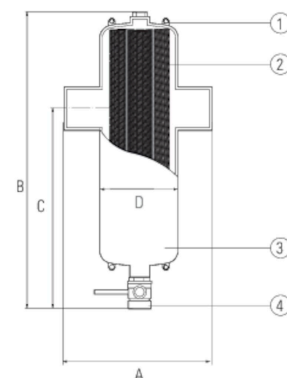
PMB.222 Sludge separators

Quality assurance

AFS 2023:5, PED 2014/68/EU

List of details

Pos	Component	Material
1	Loops for lifting, simplifies installation.	Steel
2	The separator is constructed for removing particles in sizes over 5µm.	Other
3	Valve body	Steel
4	Ball valve	Other
5	Flanged cleaning hatch	Steel



Measurements and weight

Dimension range (DN): 50 - 300

DN	A	B	C	D	Net weight (kg)
50	260	521	370	132	16
65	260	521	370	132	23
80	370	636	370	206	32
100	370	636	370	206	37
125	525	811	430	354	85
150	525	811	430	354	78
200	650	1021	430	409	101
250	750	1324	500	480	158
300	850	1535	500	634	330

Function and design

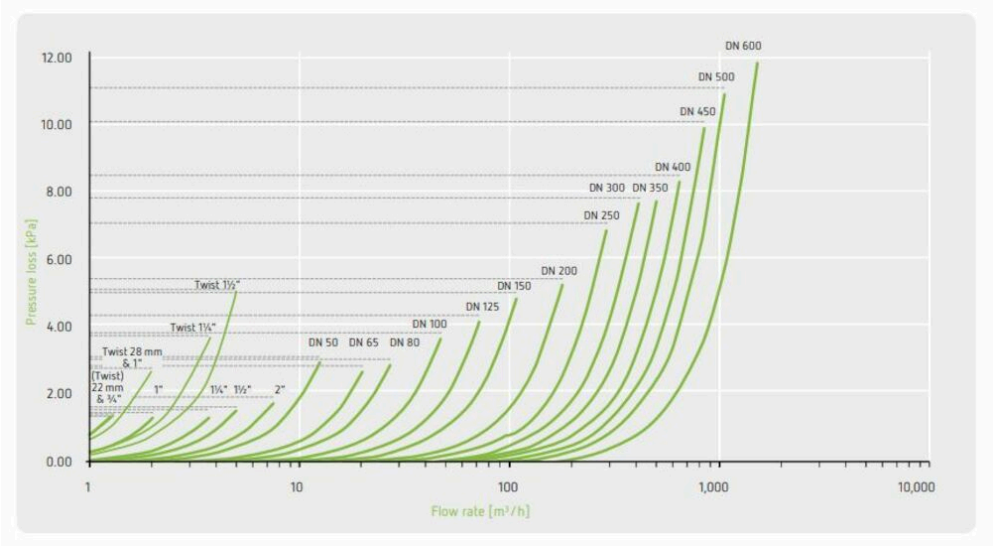
Particle separator, Exdirt, effectively removes sludge and particles in heating and cooling systems that are transported with the system fluid. To effectively separate these from the fluid, the separation housing is large in relation to the connection dimension. When the fluid passes through the separator's housing, the flow rate is reduced. This reduces the speed through the separation housing, allowing dirt and particles to be optimally separated as they pass through a special wire mesh. This allows dirt and particles to be separated from the fluid, fall downwards, and collect at the bottom of the housing. With the help of the magnetic insert, magnetic particles also "stick" to the separator.

8040R is an alternative with a cleaning/inspection hatch. The large separation housing is equipped with a flanged cleaning hatch for easy maintenance and inspection.

Exdirt separates sludge and particles with minimal pressure drop during continuous operation. Accumulated dirt is placed on the bottom of the separator and easily emptied by opening the drain valve to release the particles into, for example, a collection bucket without disrupting the system's operation. The sludge accumulation chamber has a large capacity, providing long intervals between flushes.

Technical data

- Main material: Steel
- Included materials: Steel
- Temperature (°C): 0 - 110
- PN: 10
- Connection: ISO 1127, weld end
- Product colour: RAL 7040 - Window grey



Item number	Max system flow (m3/h)	Execution	Connection 1	Connection 1 - spec.	Connection 2	Connection 2 - spec.
8040R50	12.5	Particle separation	ISO 1127, weld end	DN50-Dy 60,3mm	ISO 1127, weld end	DN50-Dy 60,3mm

Item number	Max system flow (m ³ /h)	Execution	Connection 1	Connection 1 - spec.	Connection 2	Connection 2 - spec.
8040R65	20	Particle separation	ISO 1127, weld end	DN65-Dy 76,1mm	ISO 1127, weld end	DN65-Dy 76,1mm
8040R80	27	Particle separation	ISO 1127, weld end	DN80-Dy 88,9mm	ISO 1127, weld end	DN80-Dy 88,9mm
8040R100	47	Particle separation	ISO 1127, weld end	DN100-Dy 114,3mm	ISO 1127, weld end	DN100-Dy 114,3mm
8040R125	72	Particle separation	ISO 1127, weld end	DN125-Dy 139,7mm	ISO 1127, weld end	DN125-Dy 139,7mm
8040R150	108	Particle separation	ISO 1127, weld end	DN150-Dy 168,3mm	ISO 1127, weld end	DN150-Dy 168,3mm
8040R200	180	Particle separation	ISO 1127, weld end	DN200-Dy 219,1mm	ISO 1127, weld end	DN200-Dy 219,1mm
8040R250	288	Particle separation	ISO 1127, weld end	DN250-Dy 273mm	ISO 1127, weld end	DN250-Dy 273mm
8040R300	405	Particle separation	ISO 1127, weld end	DN300-Dy 323,9mm	ISO 1127, weld end	DN300-Dy 323,9mm

Installation and maintenance

Possible mounting position: Horizontal

See usage instructions.

Please feel free to contact us

We answer your questions by e-mail and telephone. No question is too small, no challenge is too big. You are always welcome at Armatec.

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THE COMPANY'S MANAGEMENT SYSTEM
IS CERTIFIED BY DNV
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