



5464 DISCALDIRTMAG

deaerator-dirt separator with removable magnet

SD 091 20-8-2021

Application

The DISCALDIRTMAG continually eliminates air and debris contained in the hydraulic circuits of heating and cooling systems

The air discharge capacity of these devices is very high.

The automatic air vent at the top of the collection chamber allows more air to be collected and automatically discharges to atmosphere.

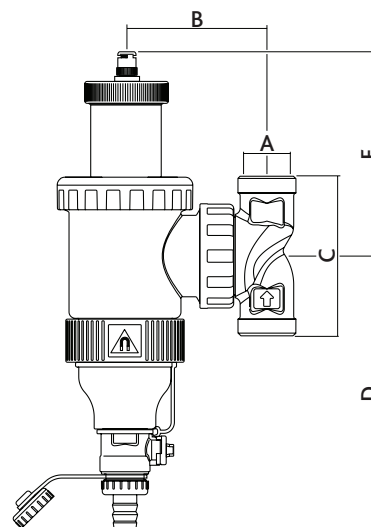
The hydroscopic cap allows air to be released during system filling and automatically closes when in contact with water.

The DISCALDIRTMAG automatically eliminate all the air present in the circuit, down to the level of micro-bubbles and at the same time separates the debris present in the circuit water.

The debris collects in the bottom of the valve body from where it can be discharged via the drain valve at the bottom of the collection chamber.

The removable magnet ensures high efficiency for the separation of ferrous impurities.

Dimensions



Construction Details

Component	Material	Grade
Body	Polymer	PA66G30
Dirt separation chamber	Polymer	PA66G30
Locking nut for 'T' fitting	Polymer	PPSG40
Tee fitting	Brass	BS EN 1982 CB735S
Automatic air vent body	Polymer	PA66G30
Float	Polymer	PP
Float guide and stem	Brass	BS EN 12164 CW614N
Float lever and spring	Stainless st.	BS EN 10270-3 (AISI 302)
Air vent with hydroscopic cap		
Seals	Elastomer	EPDM
Drain valve	Brass	BS EN12165 CW617N

Technical Specification

Medium:	water, glycol solution
Max. percentage of glycol:	30%
Max. working pressure:	3 bar
Max. discharge pressure:	3 bar
Working temperature range:	0 to 90°C
Particle separation rating:	up to 5 µm
Ring system magnetic induction:	2 x 0.31

Ref No	Size	A	B	C	D	E	kg
546405	DN20	¾"	87.5	96	172.5	125	1.3
546406	DN25	1"	87.5	110	172.5	125	1.3
546402	DN20	Ø18	87.5	115	172.5	125	1.3
546403	DN25	Ø22	87.5	116.6	172.5	125	1.3

Hydraulic Characteristics

DN	20	25	20	25
Connection	¾"	1"	Ø22	Ø28
Code	546405	546405	546405	546405
Kv - m³/hr	10.5	10.5	10.5	10.5
l/min MAX	21.67	21.67	21.67	21.67
l/min MIN	1.3	1.3	1.3	1.3

The maximum recommended flow velocity inside the pipe is 1.2 m/s. The following shows the maximum flow rates to meet this requirement.

Size	Ø22	Ø28
l/min	23.1	38.8

Based on BS EN 1057 copper tube