

# Sludge separators

## DN 25...300



Sludge separators continuously remove smallest dirt particles without significantly increasing the flow resistance. A strong magnet retains magnetite. When the magnet is pulled out, the magnetic particles fall into the sump and be rinsed out via a ball valve without interrupting operation.

For central heating and cooling systems with closed circuits. For operation with non-aggressive, harmless fluids.

### Function

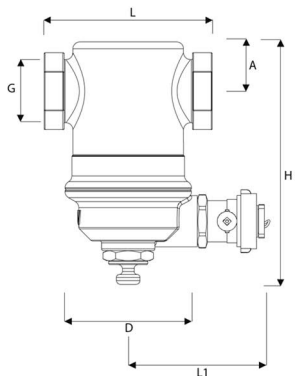
The sludge separator contains a wire mesh and a magnet inside the housing. Dirt particles are slowed down by the wire mesh and sink to the bottom. Magnetic particles are additionally held by the magnet. A flow direction for the medium is not specified.

### Technical data

Nominal sizes	DN 20...40 (horizontal) DN 20...25 (vertical) DN 50...300 with flanges																																				
Variants	With internal thread according to EN 10226 With flanges according to EN 1092-1 PN 16 With flanges according to ANSI Class 150																																				
Operating temperature	-10...110 °C																																				
Operating pressure	With internal thread or flanges according to EN 1092-1 PN16: max. 16 bar / PN 16 With flanges according to ANSI Class 150: max. 20 bar																																				
Medium	Heating and cooling water according to VDI 2035 or ÖNORM 5195 Water / Water-glycol mixtures with max. 50% glycol content																																				
Kvs values	<table border="0"> <tr> <td>DN 20</td> <td>10.7</td> <td>DN 50</td> <td>72</td> </tr> <tr> <td>DN 25</td> <td>17.2</td> <td>DN 65</td> <td>121</td> </tr> <tr> <td>DN 32</td> <td>31.8</td> <td>DN 80</td> <td>158</td> </tr> <tr> <td>DN 40</td> <td>40.0</td> <td>DN 100</td> <td>244</td> </tr> <tr> <td></td> <td></td> <td>DN 125</td> <td>351</td> </tr> <tr> <td></td> <td></td> <td>DN 150</td> <td>487</td> </tr> <tr> <td></td> <td></td> <td>DN 200</td> <td>780</td> </tr> <tr> <td></td> <td></td> <td>DN 250</td> <td>1,185</td> </tr> <tr> <td></td> <td></td> <td>DN 300</td> <td>1,696</td> </tr> </table>	DN 20	10.7	DN 50	72	DN 25	17.2	DN 65	121	DN 32	31.8	DN 80	158	DN 40	40.0	DN 100	244			DN 125	351			DN 150	487			DN 200	780			DN 250	1,185			DN 300	1,696
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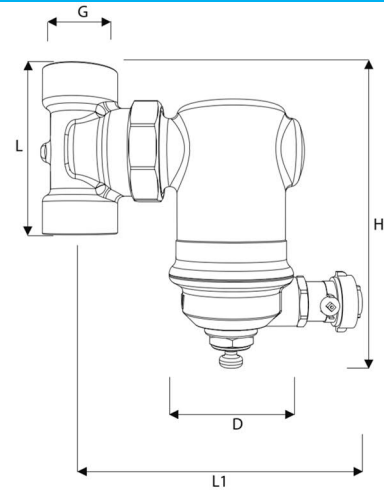
# Dimensions

## With internal thread



DN 20 to DN 40, for horizontal installation position

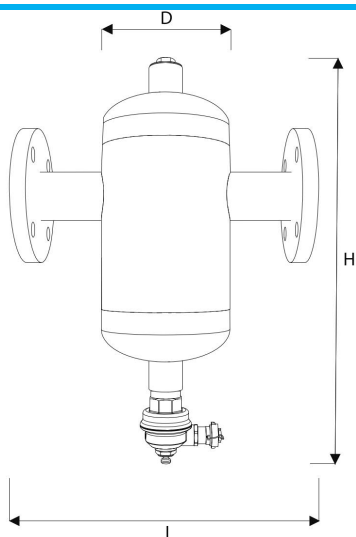
DN	G	L	L1	H	A	D	M <sup>1</sup>
<b>20</b>	Rp 3/4	85	73	123	25	64	130
<b>25</b>	Rp 1	88	73	138	35	64	130
<b>32</b>	Rp 1 1/4	88	73	158	40	64	130
<b>40</b>	Rp 1 1/2	88	73	188	40	64	175



DN 20 and DN 25, for vertical installation position

DN	G	L	L1	H	D	M <sup>1</sup>
<b>20</b>	Rp 3/4	84	152	153	64	130
<b>25</b>	Rp 1	84	152	153	64	130

## With flanges



DN	D [mm]	H <sup>2</sup> [mm]	L [mm]	Weight <sup>3</sup> [kg]	Volume [l]	M <sup>1</sup> [mm]
<b>50</b>	159	506	350	17	7	250
<b>65</b>	159	506	350	20	7	250
<b>80</b>	219	637	470	31	18	300
<b>100</b>	219	637	475	35	18	300
<b>125</b>	325	859	635	59	51	—
<b>150</b>	325	859	635	65	51	—
<b>200</b>	408	1,101	775	90	114	—
<b>250</b>	508	1,301	890	140	214	—
<b>300</b>	612	1,502	1,005	238	307	—

<sup>1</sup> To be able to remove the magnet, a free space is required under the sludge separators up to nominal size DN 100.



<sup>2</sup> Approximate data

<sup>3</sup> Empty weight. Weight increases when filled with water.

## Materials


Component	Sludge separators with internal thread	Sludge separators with flanges
Body	Brass	Steel
Wire mesh	Copper	Copper
Draining device	Brass	Brass
Plug	—	Brass
O rings	FPM	FPM

## Item numbers


	Nominal size	Connection size	Item no.	Item no.
With internal thread			Horizontal installation position	Vertical installation position
	DN <b>20</b>	Rp 3/4	1124006	1124106
	DN <b>25</b>	Rp 1	1124008	1124108
	DN <b>32</b>	Rp 1 1/4	1124010	
	DN <b>40</b>	Rp 1 1/2	1124012	
With flanges			EN <b>1092-1 PN16</b>	ANSI Class <b>150</b>
	DN <b>50</b>	<b>2"</b>	1124550	1124650
	DN <b>65</b>	<b>2 1/2"</b>	1124551	1124651
	DN <b>80</b>	<b>3"</b>	1124552	1124652
	DN <b>100</b>	<b>4"</b>	1124553	1124653
	DN <b>125</b>	<b>5"</b>	1124554	1124654
	DN <b>150</b>	<b>6"</b>	1124555	1124655
	DN <b>200</b>	<b>8"</b>	1124556	1124656
	DN <b>250</b>	<b>10"</b>	1124557	1124657
DN <b>300</b>	<b>12"</b>	1124558	1124658	

## Accessories

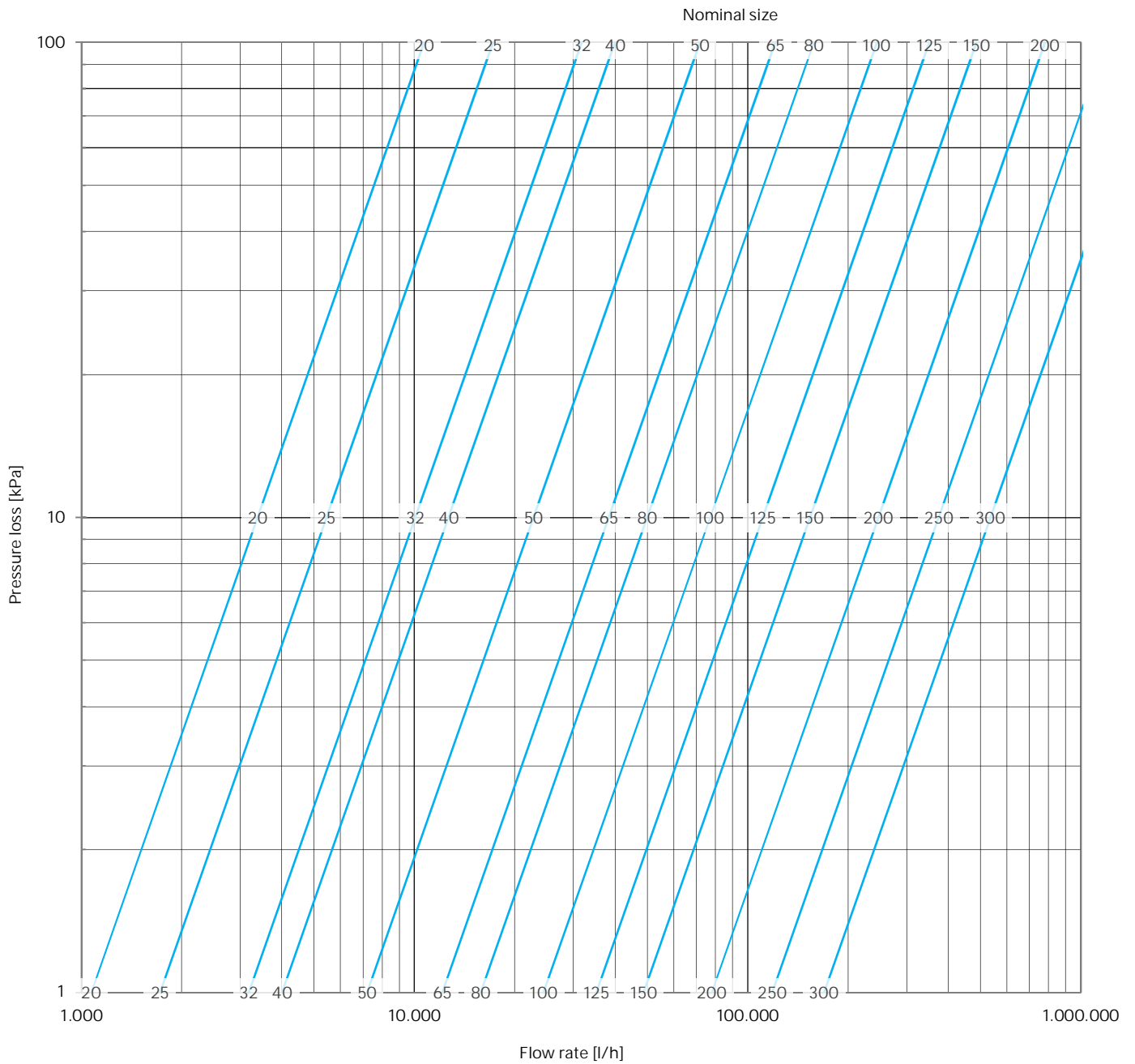
Thermal insulation shells  
for horizontal installation position

	Suitable for	Item no.
	DN 20...25	1124091
	DN 32...40	1124092

for vertical installation position

	Suitable for	Item no.
	DN 20...25	1124091

# Pressure loss chart



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