

barnova

INNOVATIVE PRESSURE COMPETENCE

TOPCAT

Topcat

Topcat Plus

Topcat Duo Plus

- ✓ Venting
- ✓ Sludge removal
- ✓ Microbubble deaeration
- ✓ Magnetic dirt trap



Sludge trap

Deaerator

Barnova deaerator and sludge trap accessories

Air and dirt have to come out!

It is not just a matter of course that plant runs ideally and smoothly. Factors such as air / gases, dirt and corrosive particles can lead to an unwanted reduction in energy efficiency.

Pumps, valves and other components can suffer as a consequence. This results in higher energy costs, unnecessary wear and the associated costs of repair and failures.

Where does the air or gas come from?

After a system is initially filled and bled, dissolved gases and microbubbles remain in the medium, and via diffusion, gas constantly gets into the system through valves and fittings. If the gases are not sufficiently removed, then unwanted problems will inevitably occur.

- With the Barnova TOPCAT separator range, you will be well equipped for every application with the associated dimensions.
- For really difficult cases, the TOPCAT / TOPCAT DUO / TOPCAT PLUS separators get to grips with the corrosion particles and other metallic impurities using integrated, replaceable magnets.

Barnova TOPCAT - Separator

We see it as a matter of course that our TOPCAT PLUS separators are all equipped with an inspection flange. You can easily do maintenance or cleaning work.

It is made to Pressure Equipment Directive 2014/68/EU with a CE mark, so that we meet the highest quality requirements.



Tip:

If the temperature differences are too small and too little gas is released, or for systems with a lot of branches, our vacuum degassing system TECHNOCAT can be used.

Barnova TOPCAT 0 deaerator

Microbubbles - deaerator

- Valve housing made of brass
- Connection: ½" internal or external threads at bottom
- Swivelling outlet
- Max. vent pressure: 10 bar
- Max. operating temperature (°C): 110°C

Product group 84

Connection	Total width (mm)	Total height (mm)	Order no.
½" inside	82	103	508402
½" outside	82	103	508432



- Pipe connections: Internal thread horizontal
- Swivelling vent fixture
- Nominal pressure: 10 bar
- Max. vent pressure: 10 bar
- Max. operating temperature: 110°C

Product group 84

Connection	Installed length (mm)	Total height (mm)	Order no.
¾"	110	205	508403
1"	110	205	508404
1 ¼"	124	225	508405
1 ½"	124	225	508406
2"	130	225	508407



Barnova TOPCAT S0 deaerator

Microbubbles - deaerator

- Valve housing made of brass
- Connection: ½" internal or external threads at bottom
- Swivelling outlet
- Max. vent pressure: 10 bar
- Max. operating temperature (°C): 160°C

Product group 84

Connection	Total width (mm)	Total height (mm)	Order no.
½" external thread	82	103	508412



- Horizontal connection: ¾" – 2" horizontal internal thread
- Swivelling vent fixture
- Nominal pressure: 10 bar
- Max. vent pressure: 10 bar
- Max. operating temperature: 160°C

Product group 84

Connection	Installed length (mm)	Total height (mm)	Order no.
¾"	110	205	508413
1"	110	205	508414
1 ¼"	124	225	508415
1 ½"	124	225	508416
2"	130	225	508417



Barnova TOPCAT OV deaerator

Microbubble deaerator for vertical pipework.

- Brass housing
- Connections with a compression fitting (for 22 mm diameter copper pipe), vertical
- Connections with an internal thread, vertical
- Max. operating pressure: 10 bar
- Max. vent pressure: 10 bar
- Max. operating temperature: 110°C



Product group 84

Connection	Installed height (mm)	Total height (mm)	Volume (m ³ /h)	Order no.
22 mm dia.	121	220.5	1.4	508422
3/4"	102	211	1.5	508423
1"	107	213.5	1.5	508424

Barnova TOPCAT SH dirt trap

Dirt and sludge trap for heating systems.

- Connections to pipework: Internal thread
- Drain cock to remove dirt
- Max. operating pressure: 10 bar
- Max. vent pressure: 10 bar
- Max. operating temperature: 110°C



Product group 83

Connection	Installed length (mm)	Total height (mm)	Volume (m ³ /h)	Order no. Horizontal	Order no. with insulation
22 mm dia.	124	221	1.4	508300	518300
3/4"	110	236.5	1.5	508303	518303
1"	110	236.5	3.2	508304	518304
1 1/4"	124	256.5	4.1	508305	518305
1 1/2"	124	256.5	6.8	508306	518306
2"	127	256.5	9.5	508307	518307

Barnova TOPCAT SHV dirt trap

Swivelling dirt and sludge trap.

- Connections to pipework: Internal thread
- Selectable connection horizontal / vertical
- Drain cock to remove dirt
- Max. operating pressure: 10 bar
- Max. vent pressure: 10 bar
- Max. operating temperature: 110°C



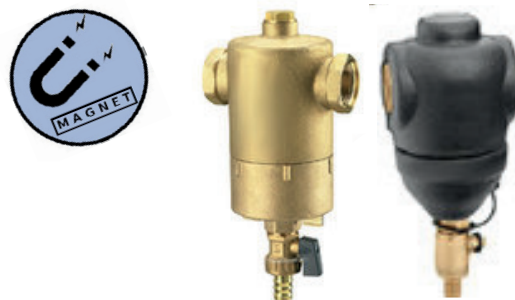
Product group 83

Connection	Installed length (mm)	Total height (mm)	Volume (m ³ /h)	Order no. Horizontal	Order no. with insulation
3/4"	160	238	1.5	508313	518313
1"	166	238	1.5	508314	518314

Barnova TOPCAT SHM dirt trap

Dirt and sludge traps for heating systems, complete with magnetic inserts.

- Brass housing
- Connections to pipework: Internal thread, horizontal
- Drain cock to remove dirt
- Max. operating pressure: 10 bar
- Max. vent pressure: 10 bar
- Max. operating temperature: 110°C



Product group 83

Connection	Installed length (mm)	Total height (mm)	Volume (m ³ /h)	Order no. Horizontal	Order no. with insulation
3/4"	109	225	1.5	508323	518323
1"	109	225	2.3	508324	518324
1 1/4"	119	244	4.1	508325	518325
1 1/2"	119	244	6.8	508326	518326
2"	126	245	9.5	508327	518327

Barnova TOPCAT SHVM dirt trap

Swivelling dirt and sludge traps with magnetic inserts.

- Connections to pipework: Internal thread
- Selectable connection horizontal / vertical
- Drain cock to remove dirt
- Max. operating pressure: 10 bar; 22 mm, 28 mm dia.: 3.0 bar
- Max. vent pressure: 10 bar; 22 mm, 28 mm dia.: 3.0 bar
- Max. operating temperature: 10 bar; 22 mm, 28 mm dia.: 90°C



Product group 83

Connection	Installed height (mm)	Total height (mm)	Volume (m ³ /h)	Order no. with insulation
22 mm dia.	75	242	1.4	518330
28 mm dia.	80	242	1.5	518331
¾"	84	242	1.5	518333
1"	102	242	2.3	518334

Barnova TOPCAT DUO

Microbubble separator, dirt and sludge trap with magnetic inserts.

- Compression fitting connections for 22 mm dia. copper pipe.
- Internal thread connections
- Drain cock with a hose connection.
- Max. operating pressure: 10 bar
- Max. vent pressure: 10 bar
- Max. operating temperature: 110°C



Product group 83

Connection	Installed length (mm)	Total height (mm)	Volume (m ³ /h)	Order no.	Order no. Magnet
22 mm dia.	127	325	1.4	508350	-
¾"	109	289	1.5	508353	528353
1"	109	289	2.3	508354	528354
1 ¼"	105	325	4.1	508355	-

Barnova TOPCAT PLUS OSR

Microbubble separator and deaerator made of steel with a welded connection, 150°C, 16 bar, inspection flange material P235GH, with C€ mark

Product group 82

Large connection (mm)	Weight (kg)	Installed length (mm)	Diameter (mm)	Height (mm)	Volume (m ³ /h)	Order no.	Order no. Stainless steel
33.7	12	298	159	480	3	508200	528200
42.4	13	298	159	480	4	508201	528201
48.3	17	298	159	510	5	508202	528202
60.3	18	298	159	517	8	508203	528203
76.1	29	397	219	605	18	508204	528204
88.9	48	462	324	820	20	508205	528205
114.3	63	462	324	825	30	508206	528206
139.7	78	462	324	920	45	508207	528207
168.3	95	660	508	1040	78	508208	528208
219.1	130	660	508	1290	135	508209	528209
273.0	230	660	616	985	185	508210	528210
323.9	280	660	616	1155	260	508211	528211



Barnova TOPCAT PLUS OFR

Microbubble separator and deaerator steel with flange connection, 150°C, 16 bar, inspection flange material P235GH, with C€ mark

Product group 82

Large connection DN	Weight (kg)	Installed length (mm)	Diameter (mm)	Height (mm)	Volume (m ³ /h)	Order no.	Order no. Stainless steel
25/PN16	12	298	159	480	3	508220	528220
32/PN16	13	298	159	480	4	508221	528221
40/PN16	17	298	159	510	5	508222	528222
50/PN16	18	298	159	517	8	508223	528223
65/PN16	29	397	219	605	18	508224	528224
80/PN16	48	462	324	820	20	508225	528225
100/PN16	63	462	324	825	30	508226	528226
125/PN16	78	462	324	920	45	508227	528227
150/PN16	95	660	508	1040	78	508228	528228
200/PN16	130	660	508	1290	135	508229	528229
250/PN16	230	660	616	985	185	508230	528230
300/PN16	280	660	616	1155	260	508231	528231



Barnova TOPCAT PLUS SSR

Dirt and sludge trap steel with welded connection, 150°C, 16 bar, inspection flange
material P235GH, with CE mark

Product group 81

Large connection (mm)	Weight (kg)	Installed length (mm)	Diameter (mm)	Height (mm)	Volume (m ³ /h)	Order no.	Order no. Stainless steel
33.7	12	298	159	480	3	508100	528100
42.4	13	298	159	480	4	508101	528101
48.3	17	298	159	510	5	508102	528102
60.3	18	298	159	517	8	508103	528103
76.1	29	397	219	605	18	508104	528104
88.9	48	462	324	820	20	508105	528105
114.3	63	462	324	825	30	508106	528106
139.7	78	462	324	920	45	508107	528107
168.3	95	660	508	1040	78	508108	528108
219.1	130	660	508	1290	135	508109	528109
273.0	230	660	616	985	185	508110	528110
323.9	280	660	616	1155	260	508111	528111



Barnova TOPCAT PLUS SSR

Dirt and sludge trap steel with flange connection, 150°C, 16 bar, inspection flange
material P235GH, with CE mark

Product group 81

Large connection DN	Weight (kg)	Installed length (mm)	Diameter (mm)	Height (mm)	Volume (m ³ /h)	Order no.	Order no. Stainless steel
25/PN16	12	298	159	480	3	508120	528120
32/PN16	13	298	159	480	4	508121	528121
40/PN16	17	298	159	510	5	508122	528122
50/PN16	18	298	159	517	8	508123	528123
65/PN16	29	397	219	605	18	508124	528124
80/PN16	48	462	324	820	20	508125	528125
100/PN16	63	462	324	825	30	508126	528126
125/PN16	78	462	324	920	45	508127	528127
150/PN16	95	660	508	1040	78	508128	528128
200/PN16	130	660	508	1290	135	508129	528129
250/PN16	230	660	616	985	185	508130	528130
300/PN16	280	660	616	1155	260	508131	528131



Barnova TOPCAT DUO PLUS OSSR

Microbubble separator, deaerator, dirt and sludge trap steel with welded connection, 150°C, 16 bar, inspection flange material P235GH, with C€ mark

Product group 80

Large connection (mm)	Weight (kg)	Installed length (mm)	Diameter (mm)	Height (mm)	Volume (m ³ /h)	Order no.	Order no. Stainless steel
33.7	12	298	159	480	3	508000	528000
42.4	13	298	159	480	4	508001	528001
48.3	17	298	159	510	5	508002	528002
60.3	18	298	159	517	8	508003	528003
76.1	29	397	219	605	18	508004	528004
88.9	48	462	324	820	20	508005	528005
114.3	63	462	324	825	30	508006	528006
139.7	78	462	324	920	45	508007	528007
168.3	95	660	508	1040	78	508008	528008
219.1	130	660	508	1290	135	508009	528009
273.0	230	660	616	985	185	508010	528010
323.9	280	660	616	1155	260	508011	528011



Barnova TOPCAT DUO PLUS OSFR

Microbubble separator, deaerator, dirt and sludge trap steel with flange connection, 150°C, 16 bar, inspection flange material P235GH, with C€ mark

Product group 80

Large connection DN	Weight (kg)	Installed length (mm)	Diameter (mm)	Height (mm)	Volume (m ³ /h)	Order no.	Order no. Stainless steel
25/PN16	12	298	159	480	3	508020	528020
32/PN16	13	298	159	480	4	508021	528021
40/PN16	17	298	159	510	5	508022	528022
50/PN16	18	298	159	517	8	508023	528023
65/PN16	29	397	219	605	18	508024	528024
80/PN16	48	462	324	820	20	508025	528025
100/PN16	63	462	324	825	30	508026	528026
125/PN16	78	462	324	920	45	508027	528027
150/PN16	95	660	508	1040	78	508028	528028
200/PN16	130	660	508	1290	135	508029	528029
250/PN16	230	660	616	985	185	508010	528010
300/PN16	280	660	616	1155	260	508011	528011



Barnova deaerator and sludge trap accessories

Magnets for sludge traps or microbubble separators, deaerators, dirt and sludge traps.

Product group 79

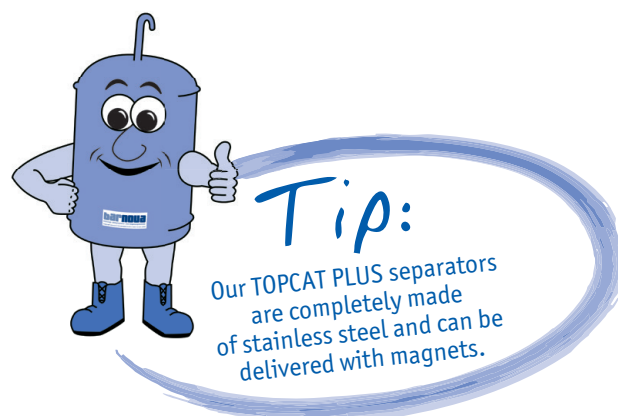
Large connection DN / mm		Order no. Magnet
25/PN16	33.7	507900
32/PN16	42.4	507901
40/PN16	48.3	507902
50/PN16	60.3	507903
65/PN16	76.1	507904
80/PN16	88.9	507905
100/PN16	114.3	507906
125/PN16	139.7	507907
150/PN16	168.3	507908
200/PN16	219.1	507909
250/PN16	273.0	507910
300/PN16	323.9	507911



Insulation for sludge traps or microbubble separators, deaerators, dirt and sludge traps.

Product group 79

Large connection DN / mm		Order no. Insulation
50/PN16	60.3	517903
65/PN16	76.1	517904
80/PN16	88.9	517905
100/PN16	114.3	517906
125/PN16	139.7	517907
150/PN16	168.3	517908





INNOVATIVE PRESSURE COMPETENCE

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