

**ROCKFIN®**  
TRUSTED BY INDUSTRIES

Rockfin is a world-leading engineering company specializing in the design, production, testing and servicing of oil, fuel systems for gas turbines, steam turbines, generators, compressors, high-pressure drives and control systems as well as filtration equipment.

The company was founded in 1991 and currently employs 700 people, including over 200 engineers. The main production plant is located in Matkowo near Gdańsk, Poland.

Modern production halls with a total surface area of over 11.000 m<sup>2</sup> are equipped with overhead cranes with a lifting capacity of up to 140 tonnes. The location of our headquarters close to two international seaports in Gdańsk

and Gdynia enables convenient sea transport and the use of additional assembly space in the port. The company also has production plants in Gorlice and Bydgoszcz.

In the production plant in Bydgoszcz, where our Research and Development Centre is located, we are constantly working on our portfolio of products and devices, which are used, among others, in auxiliary systems manufactured by Rockfin. The experience gained in this way has allowed us to develop our own range of filters.

The offer includes, among other things, filters for removing contaminants from oil, water and gases. Each of the products can be modified and adapted to the needs of the customer and end user.



ROCKFIN

1GGR2310FI-  
LUBE OIL  
FULL-FLOW FILTER

1GGR2320FI-  
LUBE OIL  
FULL-FLOW FILTER



OIL  
GGR

OIL  
GGR

OIL  
GGR



# RFDI CARTRIDGE DUPLEX FILTERS

## 1.1. ROCKFIN STANDARD

The RFDI cartridge duplex filters, thanks to Rockfin's many years of experience in the field of engineering, guarantee a high standard of workmanship. The use of two independent filtration chambers, only one of which runs continuously, and the use of a special 6-way with innovative drive transmission solutions allows the replacement of filter cartridges without the need to stop the entire installation. The RFDI series is designed in accordance with EN 13445 and the Pressure Equipment Directive PED 2014/68/EU or ASME BPVC Sec. VIII Div. 1<sup>1</sup>. The RFDI filters are adapted to work with liquids such as water, mineral oils, fuels and others<sup>2</sup>. They are available in carbon steel (CS) or stainless steel (SS).

## 1.2. CONSTRUCTION INNOVATION

Rockfin candle filters are characterized by the innovative "High flow" technology. Thanks to a series of tests executed on test benches, Rockfin has developed a special construction of filter cartridges, characterized by a combination of optimal geometry and filtration surface, thus ensuring significantly lower resistance to the flow of the medium. In addition, each filter cartridge has a separate downforce element that guarantees positioning of the cartridge in the most difficult conditions and quick disassembly of individual cartridges, without the use of any special tools.

## 1.3. BASIC EQUIPMENT

The basic equipment of the standard series of RFDI filters is a 6-way changeover valve, drainage connections, venting connections, measuring connections, davits<sup>3</sup> for lifting the covers and a pressure equalization line with a ball valve.

## 1.4. TECHNICAL SPECIFICATIONS

The technical parameters of the standard series of RFDI filters are shown below.

TECHNICAL PARAMETERS	
Design pressure	16 bar(g)
Design temperature	0°C/+90°C
Volumetric flow rate *value determined for water	up to 600 m <sup>3</sup> /h*
Inlet / outlet nozzles	DN 100=DN250 4"=10"
Collapse pressure of the filter cartridge	10 bar

## 1.5. CERTIFICATION AND QUALITY

In accordance with the requirements of the standards and/or at the customer's request, RFDI filters are delivered with a complete set of quality documentation and CE or U-stamp marking for EN 13445 and ASME BPVC Sec. VIII Div. 1 which is a third party acceptance certificate<sup>4</sup>, respectively.



## 1.6. OPTIONAL EQUIPMENT

As additional equipment for Rockfin filters, we offer:

- Shut-off valves at venting and drainage connections;
- Pressure drop indicator (filter cartridge clogging indicator);
- Special versions.



## 1.7. FILTER CARTRIDGES

Rockfin filter cartridges are made with high precision and maintaining the highest quality standards, thanks to which their resistance to collapse pressure is as high as 10 bar.

## 1.8. SPARE PARTS

Recommended spare parts:

- Cover seal;
- Filter cartridges.

1. A version according to other standards on request.  
2. The type of liquid should be specified when ordering.  
3. Except for filter size "01".  
4. Other certification and marking on request.

# Coding of RFDI cartridge duplex filters

**FILTER CODE** | **RFDI** | **-** | **01** | **-** | **111** | **-** | **20FG** | **-** | **L14** | **-** | **00** | **-** | **X**

## FILTER TYPE

Symbol	Description
RFDI	Cartridge duplex filters

## FILTER SIZE

No.	Quantity of cartridges	Nozzle size	Total filtration area	Valve type
01	1	DN100 / 4"	22 600 cm <sup>2</sup>	ball
02	2	DN150 / 6"	45 200 cm <sup>2</sup>	butterfly
03	3	DN150 / 6"	67 800 cm <sup>2</sup>	butterfly
04	4	DN200 / 8"	90 400 cm <sup>2</sup>	butterfly
05	5	DN200 / 8"	113 000 cm <sup>2</sup>	butterfly
06	6	DN250 / 10"	135 600 cm <sup>2</sup>	butterfly
07	7	DN250 / 10"	158 200 cm <sup>2</sup>	butterfly

## DESIGN PRESSURE

No.	P bar(g)
1	16
C	On request

## DESIGN CODE

No.	Design code
1	EN 13445 (PED 2014/68/UE)
2	BPVC Sec. VIII Div. 1
3	ASME Sec. VIII Div. 1 (Stamp)
C	On request

## FILTER VESSEL MATERIAL

No.	Description
1	CS (carbon steel)
2	SS (stainless steel)

## FILTRATION ACCURACY

Symbol	Material
06FG	6µm Fiber Glass
10FG	10µm Fiber Glass
20FG	20µm Fiber Glass
10WM	10µm Wire Mesh
25WM	25µm Wire Mesh

## FILTER CARTRIDGE VERSION

Symbol	Description
L14	Rockfin standard cartridge

## OPTIONAL EQUIPMENT

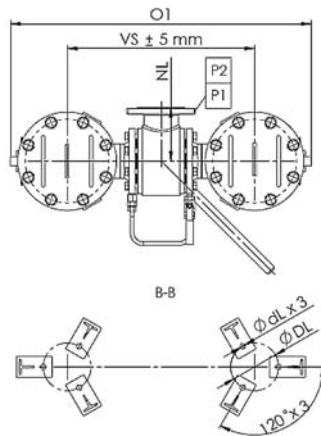
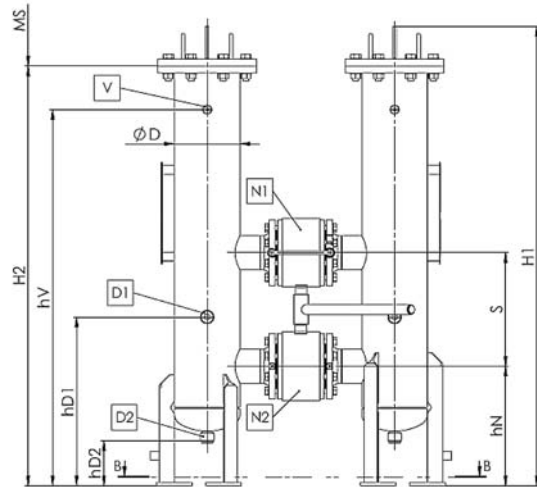
Symbol	Description
00	None
Z0	Drainage and venting valves
0C	Clogging indicator
ZC	Drainage and venting valves + clogging indicator

## SPECIAL VERSION

Symbol	Description
X	Special version – include special requirements in the inquiry

# Dimensions of RFDI cartridge duplex filters

**NOTE:** The RFDI 01 filter is coupled with a 6-way ball changeover valve.



## CONNECTION TABLE

FILTER SIZE	CONNECTIONS						Vent
	Inlet	Outlet	Drainage of the dirty side	Drainage of the clean side	Measurement connection 1	Measurement connection 2	
<b>RFDI-01</b>	N1	N2	D1	D2	P1	P2	V
	DN100 / 4"		1"		1/4"		1/2"

**NOTE:**

- N1 and N2 connections for EN 13445 (PED 2014/68/UE) and ASME BPVC Sec.VIII Div.1 have PN16 EN 1092-1 or Cl.150 ANSI B16.5 neck flanges and threaded connections made consecutively with G and NPT thread.

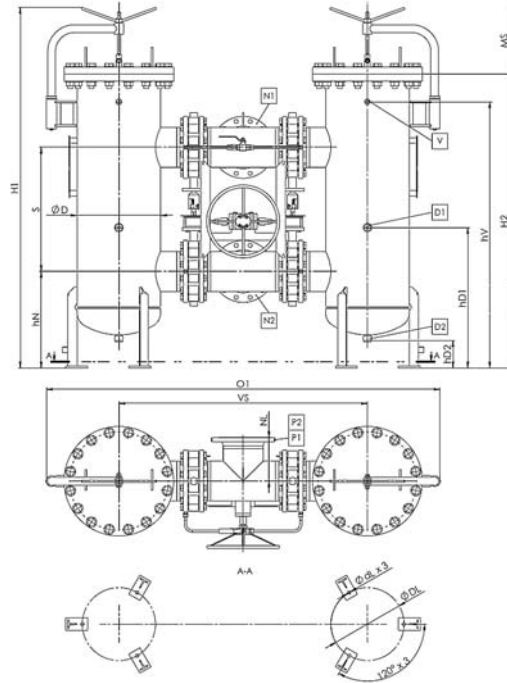
## DIMENSIONS TABLE

FILTER SIZE	Dimensions Y [mm] ± 5 mm													Service Space
	H1	H2	D	DL	NL	O1	VS	S	hN	hD1	hD2	hV	dL	
<b>RFDI-01</b>	1540	1405	219	160	180	1005	625	380	400	565	150	1260	8	800

**NOTE:** Dimensions are subject to change. The final dimensions of the filter will be confirmed when ordering.

# Dimensions of RFDI cartridge duplex filters

**NOTE:** The RFDI 02 - 07 filters are coupled with 6-way changeover butterfly valves.



## CONNECTION TABLE

FILTER SIZE	CONNECTIONS						
	Inlet N1	Outlet N2	Drainage of the dirty side D1	Drainage of the clean side D2	Measurement connection 1 P1	Measurement connection 2 P2	Vent V
<b>RFDI-02</b>	DN150 / 6"		1"		1/4"		1/2"
<b>RFDI-03</b>	DN150 / 6"		1"		1/4"		1/2"
<b>RFDI-04</b>	DN200 / 8"		1"		1/4"		1/2"
<b>RFDI-05</b>	DN200 / 8"		1"		1/4"		1/2"
<b>RFDI-06</b>	DN250 / 10"		1"		1/4"		1/2"
<b>RFDI-07</b>	DN250 / 10"		1"		1/4"		1/2"

**NOTE:**

- N1 and N2 connections for EN 13445 (PED 2014/68/UE) and ASME BPVC Sec.VIII Div.1 have PN16 EN 1092-1 or Cl.150 ANSI B16.5 neck flanges and threaded connections made consecutively with G and NPT thread.

## DIMENSIONS TABLE

FILTER SIZE	Dimensions Y [mm] ± 5 mm													Service space MS
	H1	H2	D	DL	NL	O1	VS	S	hN	hD1	hD2	hV	dL	
<b>RFDI-02</b>	1885	1535	355	295	200 235*	1840 1910*	1150 1215*	580	480	695	150	1385	18	800
<b>RFDI-03</b>	1895	1540	406	345	200 235*	1930 2000*	1150 1215*	580	490	700	150	1390	18	
<b>RFDI-04</b>	1972	1610	457	400	245 285*	2155 2235*	1360 1440*	680	530	770	150	1460	18	
<b>RFDI-05</b>	1987	1620	508	450	245 285*	2265 2345*	1390 1470	680	540	780	150	1470	18	
<b>RFDI-06</b>	2089	1710	610	530	290 320*	2575 2640*	1630 1690	750	600	870	150	1560	22	
<b>RFDI-07</b>	2089	1710	610	530	290 320*	2575 2640*	1630 1690	750	600	870	150	1560	22	

**NOTE:** Dimensions with an asterisk \* for the version according to ASME BPVC Sec.VIII Div.1, the other dimensions are universal. Dimensions are subject to change. The final dimensions of the filter will be confirmed when ordering.

# RFSI CARTRIDGE FILTERS

## 1.1. ROCKFIN STANDARD

Thanks to many years of experience of Rockfin in the field of engineering, RFSI cartridge filters guarantee a high standard of performance in accordance with international standards. Single RFSI filters are designed in accordance with EN 13445 and the Pressure Equipment Directive PED 2014/68/EU or ASME BPVC Sec. VIII Div. 1<sup>1</sup>. These devices are adapted to work with liquids such as water, mineral oils, fuels and others<sup>2</sup>. The bodies can be made of carbon steel (CS) or stainless steel (SS).

## 1.2. CONSTRUCTION INNOVATION

Rockfin candle filters are characterized by the innovative "High flow" technology. Thanks to a series of tests executed on test benches, Rockfin has developed a special construction of filter cartridges, characterized by a combination of optimal geometry and filtration surface, thus ensuring significantly lower resistance to the flow of the medium. In addition, each filter cartridge has a separate downforce element that guarantees positioning of the cartridge in the most difficult conditions and quick disassembly of individual cartridges, without the use of any special tools.

## 1.3. BASIC EQUIPMENT

The basic equipment of the standard series of RFSI filters is a drainage connection, venting connection, measuring connections and a crane for lifting the cover<sup>3</sup>.

## 1.4. TECHNICAL SPECIFICATIONS

The technical parameters of the standard series of RFSI filters are shown below.

TECHNICAL PARAMETERS	
Design pressure	16 bar(g)
Design temperature	0°C/+90°C
Volumetric flow rate *value determined for water	up to 600 m <sup>3</sup> /h*
Inlet / outlet nozzles	DN 100±DN250 4"±10"
Collapse pressure of the filter cartridge	10 bar

## 1.5. CERTIFICATION AND QUALITY

In accordance with the requirements of the standards and/or at the customer's request, RFSI filters are delivered with a complete set of quality documentation and CE or U-stamp marking for EN 13445 and ASME BPVC Sec. VIII Div. 1 which is a third party acceptance certificate<sup>4</sup>, respectively.



## 1.6. OPTIONAL EQUIPMENT

As additional equipment for Rockfin filters, we offer:

- Shut-off valves at venting and drainage connections;
- Pressure drop indicator (filter cartridge clogging indicator);
- Special versions.



## 1.7. FILTER CARTRIDGES

Rockfin filter cartridges are made with high precision and maintaining the highest quality standards, thanks to which their resistance to crushing pressure is as high as 10 bar.

## 1.8. SPARE PARTS

Recommended spare parts:

- Cover seal;
- Filter cartridges.

1. Versions according to other standards on request.  
2. The type of liquid should be specified when ordering.  
3. Except for filter size „01“.  
4. Other certification and marking on request.



# Coding of single RFSI cartridge filters

**FILTER CODE**    **RFSI**    **-**    **01**    **-**    **111**    **-**    **20FG**    **-**    **L14**    **-**    **00**    **-**    **X**

## FILTER TYPE

Symbol	Description
RFSI	Single cartridge filter

## FILTER SIZE

No.	Quantity of cartridges	Nozzle size	Total filtration area
01	1	DN100 / 4"	22 600 cm <sup>2</sup>
02	2	DN150 / 6"	45 200 cm <sup>2</sup>
03	3	DN150 / 6"	67 800 cm <sup>2</sup>
04	4	DN200 / 8"	90 400 cm <sup>2</sup>
05	5	DN200 / 8"	113 000 cm <sup>2</sup>
06	6	DN250 / 10"	135 600 cm <sup>2</sup>
07	7	DN250 / 10"	158 200 cm <sup>2</sup>

## DESIGN PRESSURE

No.	P bar(g)
1	16
C	On request

## DESIGN CODE

No.	Design code
1	EN 13445 (PED 2014/68/UE)
2	BPVC Sec. VIII Div. 1
3	ASME Sec. VIII Div. 1 (Stamp)
C	On request

## VERSION OF THE FILTER BODY

No.	Description
1	CS (carbon steel)
2	SS (stainless steel)

## FILTRATION ACCURACY

Symbol	Material
06FG	6µm Fiber Glass
10FG	10µm Fiber Glass
20FG	20µm Fiber Glass
10WM	10µm Wire Mesh
25WM	20µm Wire Mesh

## FILTER CARTRIDGE VERSION

Symbol	Description
L14	Rockfin standard cartridge

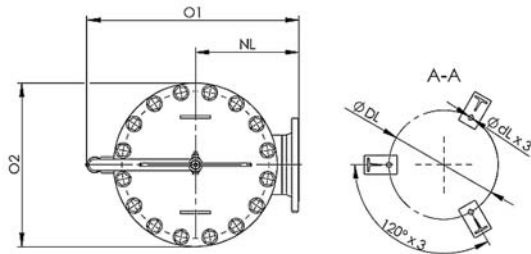
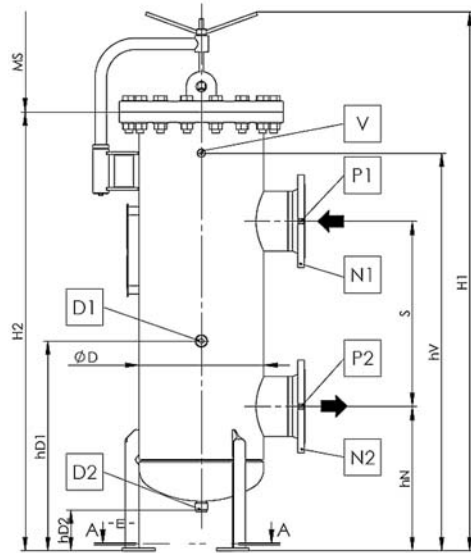
## OPTIONAL EQUIPMENT

Symbol	Description
00	None
Z0	Drainage and venting valves
0C	Clogging indicator
ZC	Drainage and venting valves + clogging indicator

## SPECIAL VERSION

Symbol	Description
X	Special version - include special requirements in the inquiry

# Dimensions of single RFSI cartridge filters



## CONNECTION TABLE

FILTER SIZE	CONNECTIONS						
	Inlet	Outlet	Drainage of the dirty side	Drainage of the clean side	Measurement connection 1	Measurement connection 2	Vent
	N1	N2	D1	D2	P1	P2	V
<b>RFSI-01</b>	DN100 / 4"		1"		1/4"		1/2"
<b>RFSI-02</b>	DN150 / 6"		1"		1/4"		1/2"
<b>RFSI-03</b>	DN150 / 6"		1"		1/4"		1/2"
<b>RFSI-04</b>	DN200 / 8"		1"		1/4"		1/2"
<b>RFSI-05</b>	DN200 / 8"		1"		1/4"		1/2"
<b>RFSI-06</b>	DN250 / 10"		1"		1/4"		1/2"
<b>RFSI-07</b>	DN250 / 10"		1"		1/4"		1/2"

### NOTE:

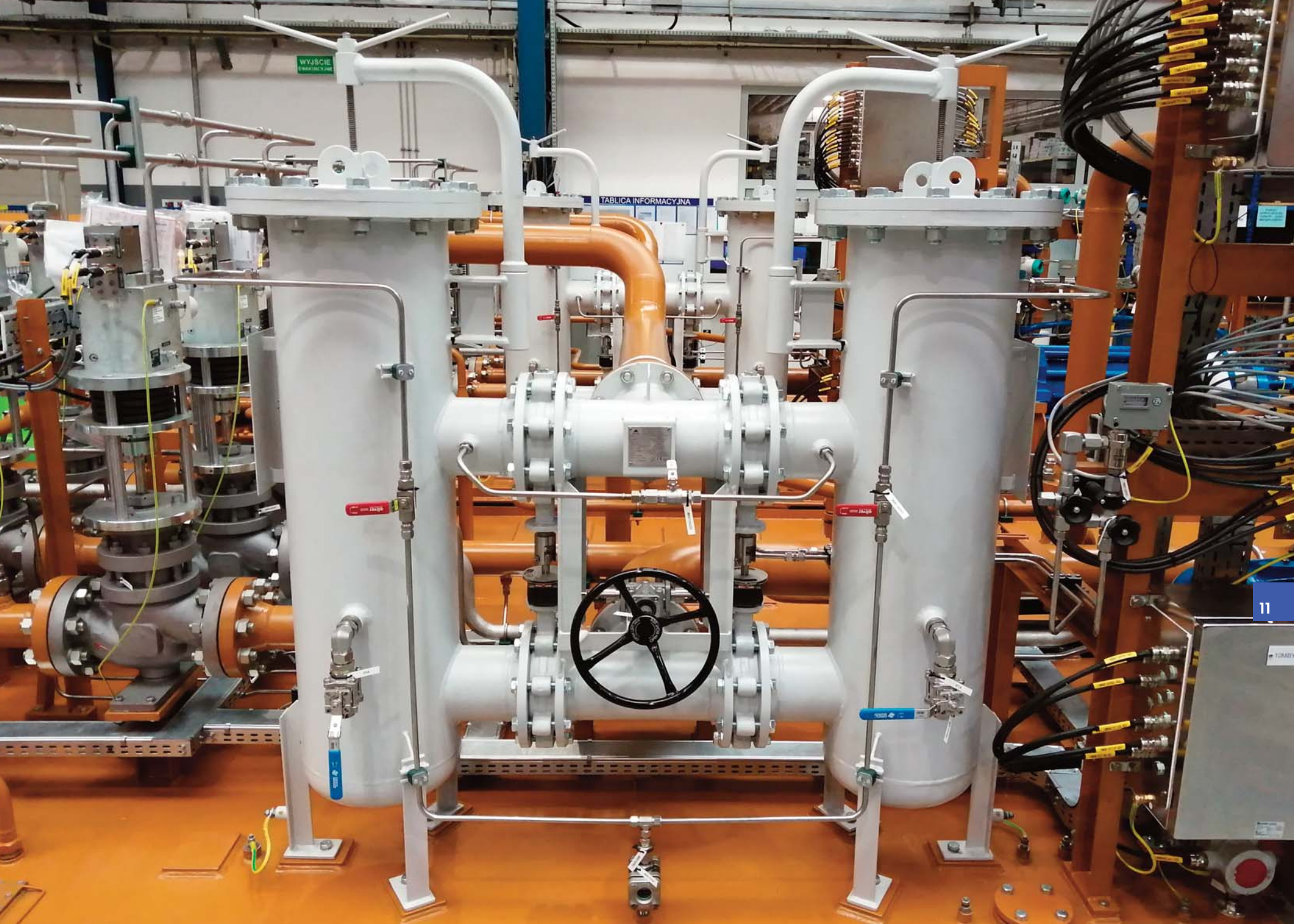
- N1 and N2 connections have PN16 EN 1092-1 or CL150 ANSI B16.5 neck flanges and threaded connections made consecutively with G and NPT thread.

## DIMENSIONS TABLE

FILTER SIZE	Dimensions Y [mm] +- 5 mm													Service space
	H1	H2	D	DL	NL	O1	O2	S	hN	hD1	hD2	hV	dL	MS
<b>RFSI-01</b>	1540	1405	219	160	230	420	330	380	400	565	150	1260	19	800
<b>RFSI-02</b>	1885	1535	355	295	320	665	500	580	480	695	150	1385	19	
<b>RFSI-03</b>	1895	1540	406	345	340	710	560	580	490	700	150	1390	19	
<b>RFSI-04</b>	1970	1610	457	400	380	780	600	680	530	770	150	1460	19	
<b>RFSI-05</b>	1985	1620	508	450	410	835	700	680	540	780	150	1470	19	
<b>RFSI-06</b>	2090	1710	610	530	460	935	800	750	600	870	150	1560	24	
<b>RFSI-07</b>	2090	1710	610	530	460	935	800	750	600	870	150	1560	24	

### NOTE:

- Product dimensions are the same for EN 13445 (PED 2014/68/EU) and ASME BPVC Sec.VIII Div.1.
- Dimensions are subject to change. The final dimensions of the filter will be confirmed when ordering.



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TOMASZ



# RBSI BASKET FILTERS

## 1.1. ROCKFIN STANDARD

The RBSI series by Rockfin is a series of basket filters used in installations where liquid filtration is required to protect the installed components against contamination and possible damage. RBSI filters are equipped with filter baskets that can be reused after emptying. Using technology based on international standards, RBSI filters are designed in accordance with the EN 13445 standard and the Pressure Equipment Directive PED 2014/68/EU or ASME BPVC Sec. VIII Div. 1<sup>1</sup>. The bodies of filters can be made of carbon steel (CS) or stainless steel (SS).

## 1.2. CONSTRUCTION INNOVATION

Rockfin basket type filters have an innovative baffle structure, separating the clean part from the dirty part of the filter. Specially made settling grooves stabilize the filter basket, ensuring tightness without the need to use additional gaskets. Filter baskets are positioned thanks to a specially designed handle, which is also an element of downforce, using its geometry and elasticity of the material.

## 1.3. BASIC EQUIPMENT

The basic equipment of the standard version of RBSI filters is a drainage connection, a venting connection and a crane for lifting the cover<sup>2</sup>.

## 1.4. TECHNICAL SPECIFICATIONS

The technical parameters of the standard series of RBSI filters are shown below.

TECHNICAL PARAMETERS	
Design pressure	16 bar(g)
Design pressure	0°C/+90°C
Volumetric flow rate *value determined for water	up to 3000 m <sup>3</sup> /h*
Inlet / outlet nozzles	N 100÷DN600 4"÷24"

## 1.5. MOUNTING VARIANT

Rockfin offers RBSI filters in a version adapted for the direct mounting on the pipeline or equipped with brackets, which are then attached to the ground.

## 1.6. CERTIFICATION AND QUALITY

In accordance with the requirements of the standards and/or at the customer's request, RBSI filters are delivered with a complete set of quality documentation and CE or U-stamp marking for EN 13445 and ASME BPVC Sec. VIII Div. 1 which is a third party acceptance certificate<sup>3</sup>, respectively.



## 1.7. OPTIONAL EQUIPMENT

As additional equipment for RBSI filters, we offer:

- Ball valves on venting and drainage connections;
- Pressure drop indicator (basket clogging indicator);
- Special version.



## 1.8. FILTER BASKETS

Rockfin filter baskets provide a wide range of filtration accuracy. They are made of stainless (SS) perforated sheet (P) or stainless (SS) woven mesh reinforced with perforated sheet (M).

## 1.9. SPARE PARTS

Recommended spare parts:

- Cover seal.

1. A version according to other standards on request.

2. Except for filter size "01".

3. Other certification and marking on request.

# Coding of RBSI basket filters

**FILTER CODE** | **RBSI** | **-** | **01** | **-** | **111** | **-** | **M10** | **-** | **S** | **-** | **00** | **-** | **X**

## FILTER TYPE

Symbol	Description
RBSI	Basket filter

## FILTER SIZE

Nr	Quantity of baskets	Nozzle size	Total filtration area
01	1L	DN100 / 4"	31100 mm <sup>2</sup>
02	2L	DN150 / 6"	62200 mm <sup>2</sup>
03	3L	DN200 / 8"	93300 mm <sup>2</sup>
04	6L	DN300 / 12"	186600 mm <sup>2</sup>
05	5XL	DN400 / 16"	432500 mm <sup>2</sup>
06	5XL	DN500 / 20"	432500 mm <sup>2</sup>
07	5XL	DN600 / 24"	432500 mm <sup>2</sup>

## DESIGN PRESSURE

Nr	P bar(g)
1	16
C	On request

## DESIGN CODE

Nr	Description code
1	EN 13445 (PED 2014/68/UE)
2	BPVC Sec. VIII Div. 1
3	ASME Sec. VIII Div. 1 (Stamp)
C	On request

## VERSION OF THE FILTER BODY

Nr	Description
1	CS (carbon steel)
2	SS (stainless steel)

## FILTRATION ACCURACY

Symbol	Perforated sheet ø [mm]	Symbol	Woven mesh [µm]
P25	2,5	M10	100
P30	3,0	M20	200
P35	3,5	M25	250
P40	4,0	M40	400
P45	4,5	M50	500
P50	5,0	M63	600
		M80	800

## MOUNTING TYPE

Symbol	Description
H	Hanging on the pipeline
S	Attached to the surface

## OPTIONAL EQUIPMENT

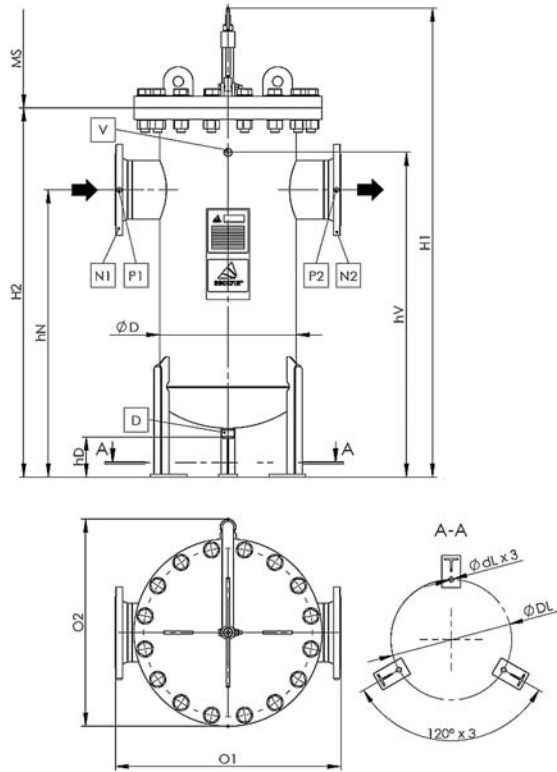
Symbol	Description
00	None
OZ	Drainage and venting valves
OC	Clogging indicator
ZC	Drainage and venting valves + clogging sensor

## SPECIAL VERSION

Symbol	Description
X	Special version – include special requirements in the inquiry



# RBSI basket filters dimensions table



## CONNECTION TABLE

FILTER SIZE	CONNECTIONS					
	Inlet	Outlet	Drainage	Measurement connection 1	Measurement connection 2	Vent
	N1	N2	D	P1	P2	V
<b>RBSI-01</b>	DN100 / 4"		1"		1/4"	1/2"
<b>RBSI-02</b>	DN150 / 6"		1"		1/4"	1/2"
<b>RBSI-03</b>	DN200 / 8"		1"		1/4"	1/2"
<b>RBSI-04</b>	DN300 / 12"		1"		1/4"	1/2"
<b>RBSI-05</b>	DN400 / 16"		1"		1/4"	1/2"
<b>RBSI-06</b>	DN500 / 20"		1"		1/4"	1/2"
<b>RBSI-07</b>	DN600 / 24"		1"		1/4"	1/2"

### NOTE:

- N1 and N2 connections for EN 13445 (PED 2014/68/UE) and ASME BPVC Sec.VIII Div.1 have PN 16 EN 1092-1 or Cl.150 ANSI B16.5 neck flanges and threaded connections made consecutively with G and NPT thread.

## DIMENSIONS TABLE

FILTER SIZE	Dimensions Y [mm] +/- 5 mm										Service space
	H1	H2	D	DL	O1	O2	hN	hD	hV	dL	
<b>RBSI-01</b>	1230	1120	273	215	540	390	930	150	1170	19	700
<b>RBSI-02</b>	1635	1275	406	345	720	650	1010	150	1110	19	
<b>RBSI-03</b>	1750	1375	508	450	840	775	1070	150	1210	19	
<b>RBSI-04</b>	1895	1515	610	550	980	875	1160	150	1310	24	900
<b>RBSI-05</b>	2620	2210	914	850	1340	1180	1710	150	2010	24	
<b>RBSI-06</b>	2620	2210	914	530	1360	1180	1710	150	2010	24	
<b>RBSI-07</b>	2620	2210	914	530	1380	1180	1710	150	2010	24	

### NOTE:

- Product dimensions are the same for EN 13445 (PED 2014/68/EU) and ASME BPVC Sec.VIII Div.1.
- Dimensions are subject to change. The final dimensions of the filter will be confirmed when ordering.

# GAS BASKET STRAINER (inline nozzles)

## 1.1. ROCKFIN STANDARD

Gas basket strainer are used either as the first coarse filtration, suction filters or the „last chance“ filters. Inline nozzles allow for easy arrangement during the modernisation of existing installations. They can be successfully used in both the energy and petrochemical sectors. Filter baskets can be reused after emptying. Using technology based on international standards, the basket filter vessels are designed in accordance with the EN 13445 standard and the Pressure Equipment Directive PED 2014/68/EU or ASME BPVC Sec. VIII Div. 1<sup>1</sup>. The vessels of filters can be made of carbon steel (CS) or stainless steel (SS).

## 1.2. CONSTRUCTION INNOVATION

Rockfin basket type filters have an innovative baffle structure, separating the clean part from the dirty part of the filter. Specially made settling grooves stabilize the filter basket, ensuring tightness without the need to use additional gaskets. Filter baskets are positioned thanks to a specially designed handle, which is also an element of downforce, using its geometry and elasticity of the material.

## 1.3. BASIC EQUIPMENT



The basic equipment of the standard version of basket strainers is a filter basket, a drainage connection, a venting connection and a crane for lifting the cover.

## 1.4. FILTER BASKETS

Rockfin filter baskets provide a wide range of filtration accuracy. They are made of stainless perforated sheet or stainless woven mesh reinforced with perforated sheet.

## 1.5. TECHNICAL SPECIFICATIONS

The technical parameters of basket strainers are shown below.

TECHNICAL PARAMETERS	
Design pressure	up to 100 bar(g)
Design temperature	up to 350°C
Main connections	DN100÷DN800 (4"÷32")
Filtration	up to 10 µm

## 1.6. CERTIFICATION AND QUALITY

In accordance with the requirements of the standards and/or at the customer's request, gas basket strainer are delivered with a complete set of quality documentation and CE or U-stamp marking for EN 13445 and ASME BPVC Sec. VIII Div. 1 which is a third party acceptance certificate, respectively<sup>2</sup>.



## 1.7. OPTIONAL EQUIPMENT

As additional equipment for gas basket strainer, we offer:

- Ball valves on venting and drainage connections,
- Measuring instrument for controlling the degree of contamination of the basket,
- Safety valve,
- Special version.



## 1.8. SPARE PARTS

Recommended spare parts:

- Cover seal,
- Filter basket.

1. Version according to other standards on request.

2. Other certification and marking on request.

# GAS BASKET STRAINER (nozzles on one side)

## 1.1. ROCKFIN STANDARD

Gas basket strainer are used either as the first coarse filtration, suction filters or the „last chance“ filters. They can be successfully used in both the energy and petrochemical sectors. Filter baskets can be reused after emptying. Using technology based on international standards, the basket filter vessels are designed in accordance with the EN 13445 standard and the Pressure Equipment Directive PED 2014/68/EU or ASME BPVC Sec. VIII Div. 1<sup>1</sup>. The vessels of filters can be made of carbon steel (CS) or stainless steel (SS).

## 1.2. CONSTRUCTION INNOVATION

Rockfin basket type filters have an innovative baffle structure, separating the clean part from the dirty part of the filter. Specially made settling grooves stabilize the filter basket, ensuring tightness without the need to use additional gaskets. Filter baskets are positioned thanks to a specially designed handle, which is also an element of downforce, using its geometry and elasticity of the material.

## 1.3. BASIC EQUIPMENT



The basic equipment of the standard version of basket strainers is a filter basket, a drainage connection, a venting connection and a crane for lifting the cover.

## 1.4. FILTER BASKETS

Rockfin filter baskets provide a wide range of filtration accuracy. They are made of stainless perforated sheet or stainless woven mesh reinforced with perforated sheet.

## 1.5. TECHNICAL SPECIFICATIONS

The technical parameters of basket strainers are shown below.

TECHNICAL PARAMETERS	
Design pressure	up to 100 bar(g)
Design temperature	up to 350°C
Main connections	DN100÷DN800 (4"÷32")
Filtration	up to 10 µm

## 1.6. CERTIFICATION AND QUALITY

In accordance with the requirements of the standards and/or at the customer's request, gas basket strainer are delivered with a complete set of quality documentation and CE or U-stamp marking for EN 13445 and ASME BPVC Sec.VIII Div.1 which is a third party acceptance certificate, respectively<sup>2</sup>.



## 1.7. OPTIONAL EQUIPMENT

As additional equipment for gas basket strainer, we offer:

- Ball valves on venting and drainage connections,
- Measuring instrument for controlling the degree of contamination of the basket,
- Safety valve,
- Special version.



## 1.8. SPARE PARTS

Recommended spare parts:

- Cover seal,
- Filter basket.

1. Version according to other standards on request.

2. Other certification and marking on request.

# GAS SEPARATORS

## 1.1. ROCKFIN STANDARD

Gas separators are devices designed to separate large drops of liquid from gas. Due to their large size, they are used as the first device separating these two phases. They can be successfully used in the energy and petrochemical sectors and in gas extraction. Using technology based on international standards, the separator vessels are designed in accordance with the EN 13445 standard and the Pressure Equipment Directive PED 2014/68/EU or ASME BPVC Sec.VIII Div.1<sup>1</sup>. The separator vessels can be made of carbon steel (CS) or stainless steel (SS).

## 1.2. CONSTRUCTION INNOVATION

Rockfin gas separators are equipped with an inlet stub pipe with an innovative design. The connector was properly recessed inside the tank, and equipped at its end with a dispersing sheet. The rushing gas in the inlet port is dispersed at its end, precipitating solid particles contained in the working medium. Because of that, the gas filtration process begins at the very entrance to the separator. A properly designed bottom hole in the inner part of the connector reduce throttling of the flow.

## 1.3. BASIC EQUIPMENT



The basic equipment of gas separators is an inlet element, demister, vortex breaker, drainage connections, a venting connection and a davit for lifting the hatch.

## 1.4. TECHNICAL SPECIFICATIONS

The technical parameters of gas separators are shown below.

TECHNICAL PARAMETERS	
Design pressure	up to 100 bar(g)
Design temperature	up to 350°C
Main connections	DN100÷DN800 (4"÷32")
Separation	up to 5µm

## 1.5. CERTIFICATION AND QUALITY

In accordance with the requirements of the standards and/or at the customer's request, gas separators are delivered with a complete set of quality documentation and CE or U-stamp marking for EN 13445 and ASME BPVC Sec.VIII Div.1 which is a third party acceptance certificate, respectively<sup>2</sup>.



## 1.6. OPTIONAL EQUIPMENT

As additional equipment for gas separators, we offer:

- Shut-off valves at venting and drainage connections;
- Measuring instrument for controlling the degree of contamination of the demister;
- Level gauge;
- Safety valve;
- Special versions.



## 1.7. SPARE PARTS

Recommended spare parts:

- Cover seal;
- Demister.

1. Version according to other standards on request.

2. Other certification and marking on request.

# COALESCING GAS FILTERS

## 1.1. ROCKFIN STANDARD

Coalescing gas filters are separators that separate liquid and solid particles from gas particles with high accuracy. They can be successfully used in the energy as well as petrochemical sectors. Using technology based on international standards, the filter vessels are designed in accordance with the EN 13445 standard and the Pressure Equipment Directive PED 2014/68/EU or ASME BPVC Sec. VIII Div. 1<sup>1</sup>. The vessels of filters can be made of carbon steel (CS) or stainless steel (SS).

## 1.2. CONSTRUCTION INNOVATION

Rockfin gas separators are equipped with an inlet stub pipe with an innovative design. The connector was properly recessed inside the tank, and equipped at its end with a dispersing sheet. The rushing gas in the inlet port is dispersed at its end, precipitating solid particles contained in the working medium. Because of that, the gas filtration process begins at the very entrance to the separator. A properly designed bottom hole in the inner part of the connector reduce throttling of the flow.

## 1.3. BASIC EQUIPMENT



The basic equipment of coalescing gas filters is an inlet element, innovative filter cartridges with high separation accuracy, drainage connections, a venting connection and a davit for lifting the cover.

## 1.4. TECHNICAL SPECIFICATIONS

The technical parameters of coalescing gas filters are shown below.

TECHNICAL PARAMETERS	
Design pressure	up to 100 bar(g)
Design temperature	up to 350°C
Main connections	DN100=DN800 (4"=32")
Separation	up to 0,3 µm

## 1.5. CERTIFICATION AND QUALITY

In accordance with the requirements of the standards and/or at the customer's request, coalescing filters are delivered with a complete set of quality documentation and CE or U-stamp marking for EN 13445 and ASME BPVC Sec. VIII Div. 1 which is a third party acceptance certificate, respectively<sup>2</sup>.



## 1.6. OPTIONAL EQUIPMENT

As additional equipment for coalescing gas filters, we offer:

- Shut-off valves at venting and drainage connections;
- Measuring instrument for controlling the degree of contamination of the separation cartridges;
- Special versions.



## 1.7. COALESCING CARTRIDGES

Rockfin filter cartridges are made with high precision and maintaining the highest quality standards. The use of an innovative design and special materials allows to maximize the phenomenon of coalescence in order to obtain the highest accuracy of liquid particle separation

## 1.8. SPARE PARTS

Recommended spare parts:

- Cover seal;
- Coalescing cartridges.

1. Version according to other standards on request.

2. Other certification and marking on request.



# SPECIAL FILTERS

In addition to standard filters, we also offer individually selected solutions that we design and manufacture in accordance with customer specifications based on given parameters, such as:

- Filtered medium
- Performance
- Filtration efficiency
- Filter housing material
- Design temperature and pressure
- Additional requirements i.a. EN 13445, AD2000, ASME, GOST, DOSH, KOSH





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Edition 2023