

Diasep

AIR SEPARATORS FOR HEATING SYSTEMS

USE AND FEATURES

Diasep air separators are specifically used for the elimination of air in heating systems.

KEY FEATURES

- connection for the safety valve
- connection for the air vent
- connection for the pressure gauge
- connection for the fuel interception valve probe
- connection for the expansion vessel



SQUARE



IN-LINE

TECHNICAL FEATURES	Diasep
Maximum fluid temperature	90°C
Minimum fluid temperature	5°C
Maximum fluid pressure	5 bar
Material	Carbon steel EN10255
Painting	Water-based primer, red

VERSIONS AND CODES

SQUARE	CONNECTIONS					
THREADED	1"	1"1/4	1"1/2	2"		
	S001	S114	S112	S002		
FLANGED	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200
	S212	S003	S004	S005	S006	S008

IN-LINE	CONNECTIONS					
THREADED	1"	1"1/4	1"1/2	2"		
	SL001	SL114	SL112	SL002		
FLANGED	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200
	SL212	SL003	SL004	SL005	SL006	SL008



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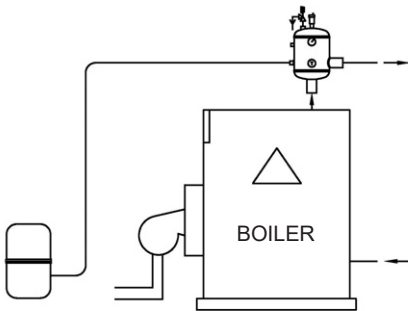
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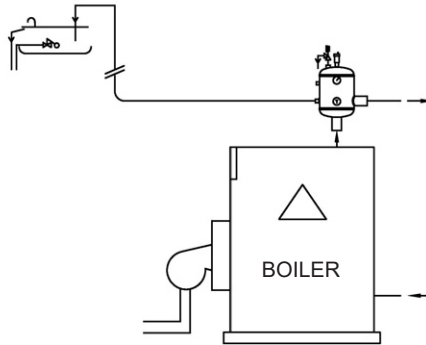
AIR SEPARATORS FOR HEATING SYSTEMS

APPLICATION EXAMPLES

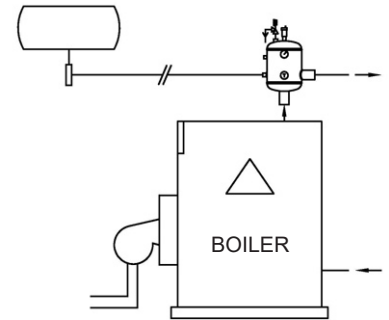
MEMBRANE EXPANSION VESSEL



EXPANSION VESSEL

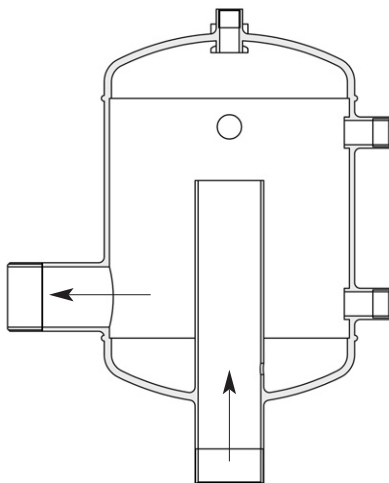


AUTO-PRESSURIZED EXPANSION VESSEL

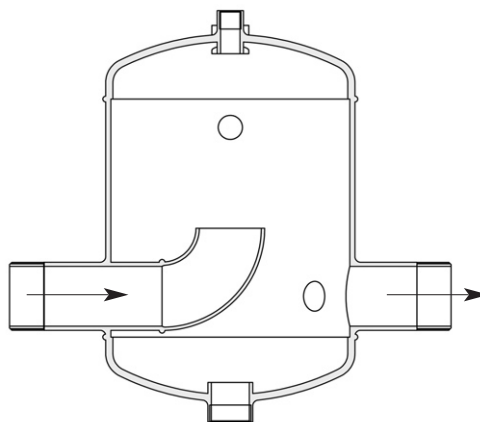


OPERATION

SEPARATOR SECTION SQUARE CONNECTIONS



SEPARATOR SECTION IN-LINE CONNECTIONS



FLUID-DYNAMIC FEATURES

Kv and INDICATIVE FLOW RATES

THREADED			FLANGED		
Ø	Kv	Flow rate	Ø	Kv	Flow rate
1"	20	2 m ³ /h	DN 65	130	13 m ³ /h
1 1/4"	35	3,8 m ³ /h	DN 80	180	18 m ³ /h
1 1/2"	45	4,1 m ³ /h	DN 100	300	30 m ³ /h
2"	75	6 m ³ /h	DN 125	500	50 m ³ /h
$\Delta p = 100 \text{ daPa}$			DN 150	700	70 m ³ /h
			DN 200	1400	140 m ³ /h

$\Delta p = 100 \text{ daPa}$



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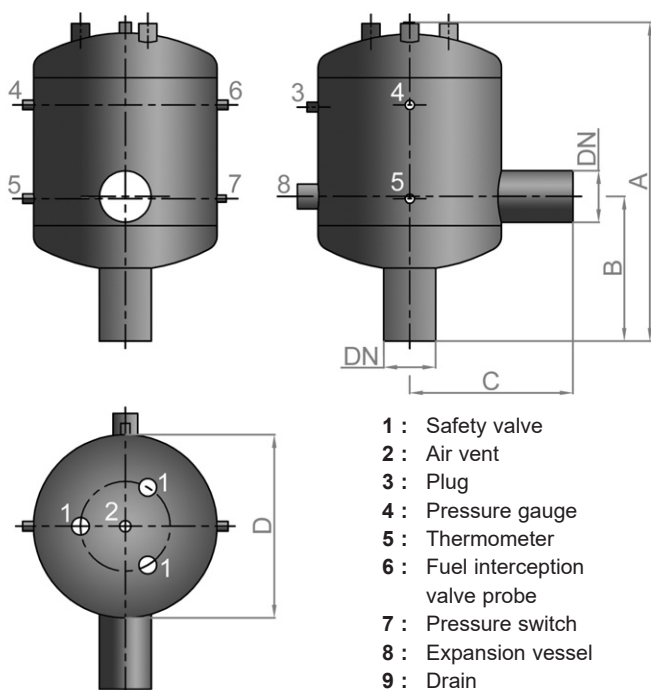
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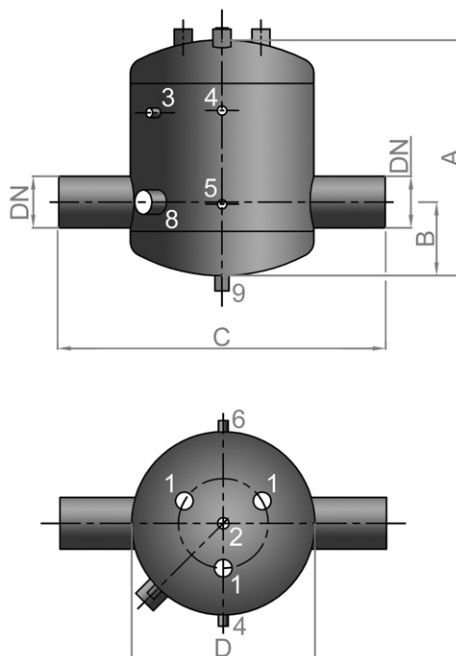
OVERALL SIZE

SQUARE CONNECTIONS



- 1 : Safety valve
- 2 : Air vent
- 3 : Plug
- 4 : Pressure gauge
- 5 : Thermometer
- 6 : Fuel interception valve probe
- 7 : Pressure switch
- 8 : Expansion vessel
- 9 : Drain

IN-LINE CONNECTIONS



Ø / DN	A	B	C	D	1	2	3	4	5	6	7	8
SQUARE CONNECTIONS												
1"	227	100	104	114	1/2"	3/8"	-	1/2"	-	1/2"	-	3/4"
1 1/4"	283	126	129	140	1/2"	3/8"	-	1/2"	-	1/2"	-	3/4"
1 1/2"	316	142	151	168	1/2"	3/8"	-	1/2"	-	1/2"	-	3/4"
2"	401	175	194	219	3/4"	3/8"	-	1/2"	-	1/2"	-	3/4"
DN 65	486	206	244	273	1"	3/8"	-	1/2"	-	1/2"	-	3/4"
DN 80	561	234	286	324	1 1/4"	3/8"	-	1/2"	-	1/2"	-	1"
DN 100	750	288	363	406	2x1 1/4"	3/8"	-	1/2"	-	1/2"	-	1 1/4"
DN 125	841	395	445	500	3x1 1/4"	3/4"	1/2"	1/2"	1/2"	1/2"	1/4"	2"
DN 150	988	467	535	600	4x1 1/4"	1"	1/2"	1/2"	1/2"	1/2"	1/4"	2"
DN 200	1243	588	655	700	6x1 1/4"	1"	1/2"	1/2"	1/2"	1/2"	1/4"	3"

Ø / DN	A	B	C	D	1	2	3	4	5	6	7	8	9
IN-LINE CONNECTIONS													
1"	184	57	208	114	1/2"	3/8"	-	1/2"	-	1/2"	-	3/4"	1/2"
1 1/4"	223	66	258	140	1/2"	3/8"	-	1/2"	-	1/2"	-	3/4"	3/4"
1 1/2"	243	69	302	168	1/2"	3/8"	-	1/2"	-	1/2"	-	3/4"	3/4"
2"	314	88	388	219	3/4"	3/8"	-	1/2"	-	1/2"	-	3/4"	1"
DN 65	378	98	488	273	1"	3/8"	-	1/2"	-	1/2"	-	3/4"	1"
DN 80	434	107	572	324	1 1/4"	3/8"	-	1/2"	-	1/2"	-	1"	1"
DN 100	635	173	726	406	2x1 1/4"	3/8"	-	1/2"	-	1/2"	-	1 1/4"	1"
DN 125	648	202	890	500	3x1 1/4"	3/4"	1/2"	1/2"	1/2"	1/2"	1/4"	2"	1"
DN 150	756	235	1070	600	4x1 1/4"	1"	1/2"	1/2"	1/2"	1/2"	1/4"	2"	1"
DN 200	936	281	1310	700	6x1 1/4"	1"	1/2"	1/2"	1/2"	1/2"	1/4"	3"	1"

Ø	flange	No. of holes
FLANGE TYPE		
DN 65	PN10-16	4
DN 80	PN10-16	8
DN 100	PN10-16	8
DN 125	PN10-16	8
DN 150	PN10-16	8
DN 200	PN10	8



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OUT-OF-STANDARD AIR SEPARATORS

We can manufacture larger air separators upon request, according to the customer's drawings. Please ask for a quotation.



EXAMPLE OF SPECIFICATIONS

DIASEP AIR SEPARATOR FOR HEATING SYSTEMS, 1"1/2 M threaded connections, 1/2" F safety valve connection, 3/8" F air vent valve connection, 1/2" F pressure gauge connection, 1/2" F fuel interception valve probe connection, 3/4" F expansion vessel connection, maximum temperature 90°C, temperatura minima 5°C, maximum pressure 5 bar, carbon steel EN10255, painted with red water-based primer.

Brand: **COMPARATO**
Code: **S112**

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