



## HUMIDITY SEPARATORS WITH INTEGRAL STRAINER SF251

## **DESCRIPTION**

The ADCA SF251 series centrifugal separators remove moisture from steam and compressed air pipelines. Steam or compressed air pass through the separator and, as a result of centrifugal forces, impact and swirling effects, the particles with a heavier specific gravity, such as water and oil droplets, moisture in suspension, dirt and scale are separated from the fluid.

The condensate collected at the bottom of the separator is automatically drained by a suitable steam or compressed air trap, which is supplied separately.



Several possibilities of installation.

No moving parts.

Stainless steel strainer screen included.

OPTIONS: Threaded condensate connection.

Special tailor-made designs. Stainless steel construction.

USE: Steam, compressed air and other gases.

**AVAILABLE** 

MODELS: SF251/S – carbon steel.

SIZES: 1/2" to 4"; DN 15 to DN 100.

CONNECTIONS: Flanged EN 1092-1 PN 16 or PN 40.

Flanged ASME B16.5 Class 150 or 300.

INSTALLATION: Always with the condensate discharge pointing

downwards.

See IMI - Installation and maintenance

instructions.





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PN 16	Category	PN 40	C

PN 16	Category	PN 40	Category
1/2" to 1" – DN 15 to 25 SEP		1/2" to 11/4" – DN 15 to 32	1 (CE marked)
11/4" to 2" – DN 32 to 50 1 (CE marked)		11/2" to 21/2" - DN 40 to 65	2 (CE marked)
21/2" to 4" – DN 65 to 100 2 (CE marked)		3" to 4" – DN 80 to 100	3 (CE marked)

<b>BODY I</b>	LIMITING	<b>CONDITIONS</b> *	
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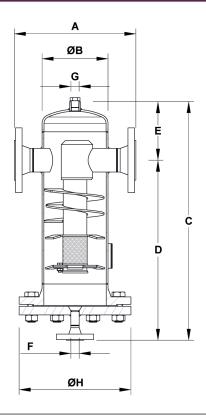
FLANGE	D PN 16	FLANGED	CLASS 150	FLANGED PN 40 / CLASS 300		
ALLOW. PRESSURE RELATED TEMP.		ALLOW. PRESSURE	RELATED TEMP.	ALLOW. PRESSURE	RELATED TEMP.	
16 bar	50 °C	16 bar	50 °C	40 bar	50 °C	
14 bar	4 bar 100 °C 14 bar		100 °C	37 bar	100 °C	
13 bar **	195 °C	13 bar **	195 °C	31 bar **	239 °C	
12 bar	250 °C	_	_	27 bar	300 °C	

<sup>\*</sup> Rating according to EN 1092-1:2018; \*\* PMO – Maximum operating pressure for saturated steam. Minimum operating temperature: -10 °C; Design code: AD-Merkblatt.









	DIMENSIONS (mm) *												
SIZE	PN 16 PN 40	CLASS 150	CLASS 300	ØB	С	D	Е	F **	G **	ØН	VOL.	WGT.	
SIZE	Α	Α	Α	Α	ЮВ		, b	_	-	G	חש	(L)	(kg)
1/2" – DN 15	230	230	250	259	114	405	285	120	DN 15	1/2"	235	2	21
3/4" – DN 20	230	230	255	264	114	405	285	120	DN 15	1/2"	235	2,6	22,4
1" – DN 25	230	230	262	274	114	405	285	120	DN 15	1/2"	235	3	24
11/4" – DN 32	260	260	290	303	140	540	410	130	DN 15	1/2"	270	5,3	36
11/2" – DN 40	260	260	294	307	140	540	410	130	DN 15	1/2"	270	6	38
2" – DN 50	310	310	341	354	168	610	460	150	DN 15	1/2"	300	11	52,5
21/2" – DN 65	380	400	430	448	219	730	550	180	DN 20	3/4"	375	19,3	94
3" – DN 80	400	410	440	453	219	730	550	180	DN 20	3/4"	375	26	102,5
4" – DN 100	470	490	518	532	273	835	610	225	DN 20	3/4"	450	37	169

<sup>\*</sup> For certified values, consult manufacturer. Volume and weight refer to PN 16 version. Other versions may have slightly different values.

Remarks: The top of the separator is supplied with a threaded connection, which size does not exceed the size of the drain connection. This connection is always supplied with a threaded socket. It can be used for air venting or balance pipe connection.

MATERIALS					
DESIGNATION	MATERIAL				
Body	P235GH / 1.0325				
Head	P265GH / 1.0425				
Inlet /outlet pipe	P235GH / 1.0325				
EN flange	P250GH / 1.0460				
ASME flange	ASTM A105 / 1.0432				
Socket	ASTM A105 / 1.0432				
Internals	S235JR / 1.0038				
Strainer	AISI 304 / 1.4301				

FLANGE CONNECTIONS								
RATING	SIZE	EN STANDARD	ASME STANDARD					
PN 16	1/2" to 2" DN 15 to 50 *	EN 1092-1 PN 40	ASME B16.5 Class 150					
PN 16	21/2" to 12" DN 65 to 300	EN 1092-1 PN 16	ASME B16.5 Class 150					
PN 40	1/2" to 12" DN 15 to 300	EN 1092-1 PN 40	ASME B16.5 Class 300					

 $<sup>^{\</sup>star}$  Flanges EN 1092-1 PN 16 and PN 40, from DN 15 to DN 50, have the same number and size of holes.



<sup>\*\*</sup> As standard, in units manufactured with EN 1092-1 flanges, these connections are female threaded ISO 7 Rp. In models with ASME B16.5 flanges, they are female threaded NPT. Alternatively, EN 1092-1 or ASME B16.5 flanged drain connections can be supplied (ASME on the same class as main connections).