



HUMIDITY SEPARATOR AND STRAINER SF251/S PN16 - PN40

DESCRIPTION

The SF251/S series centrifugal separators remove moisture from steam and compressed air pipelines. Steam and 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 must be automatically drained by a suitable steam or compressed air trap.

MAIN FEATURES

Several possibilities of installation. No moving parts. Stainless steel strainer screen included



OPTIONS:	Condensate threaded connection. Special tailor made designs.							
USE:	Steam, compressed air and other gases (Group 2).							
AVAILABLE MODELS:	SF251/S – carbon steel body.							
SIZES:	DN 15 to DN 100.							
PIPE CONNECTIONS:	Flanged EN1092-1 PN16 / PN40. Flanged ANSI Class 150 lb / 300 lb. Female screwed BSP or NPT on request.							
INSTALLATION:	Always with the condensate discharge pointing downwards. See IMI – Installation and maintenance instructions.							
HOW TO SELECT:	Generally, in an existing plant, it is advisable to fit a separator with the same size as the pipeline. Pressure drop is normally negligible. For approximate pressure drop calculation please consult factory.							

CE MARKING – GROUP 2 (PED – European Directive)								
Rating	Size	Category	Rating	Size	Category			
PN16	DN 15 to DN 25	5 SEP		DN 15 to DN 32	1 (CE marked)			
	DN 32 to DN 50	1 (CE marked)	PN40	DN 40 to DN 80	2 (CE marked)			
	DN 65 to DN 100	2 (CE marked)		DN 100	3 (CE marked)			

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LIMITING CONDITIONS ** Pressure Temperature Pressure Temperature Pressure Temperature Rating Rating Rating (bar) (°C) (bar) (°C) (bar) (°C) 16 50 16 50 40 50 PN40 / 100 100 100 14 14 37 ANSI **PN16** ANSI 150 lb 13 * 195 13 * 195 31 * 239 300 lb 250 27 12 _ 300

* PMO - Maximum operating pressure for saturated steam; ** Rating according to EN 1092-1:2018;

Minimum operating temperature: -10 °C;

Design code: AD-Merkblatt.

MATERIALS							
DESIGNATION	MATERIAL						
Body	EN10216-2 / P235GH / 1.0325						
Heads	EN10028-2 / P265GH / 1.0425						
Inlet / Outlet pipes	EN10216-2 / P235GH / 1.0325						
EN flanges	EN10222-2 / P250GH / 1.0460						
ANSI flanges	ASTM A105 / 1.0432						
Sockets	ASTM A105 / 1.0432						
Internals	EN 10025-2 / S235JR / 1.0038						
Strainer screen	AISI 304 / 1.4301						
EN 10204 3.1 certificate available if requested with the order.							

FLANGE CONNECTIONS									
Size	ANSI Standard								
* DN 15 to DN 50	EN 1092-1 PN40	ANSI B16.5 Cl. 150 lb							
DN 65 to DN 100	EN 1092-1 PN16	ANSI B16.5 Cl. 150 lb							
DN 15 to DN 100	EN 1092-1 PN40	ANSI B16.5 Cl. 300 lb							
	Size * DN 15 to DN 50 DN 65 to DN 100 DN 15 to DN 100								

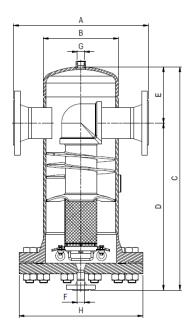
Flanges EN 1092-1 PN16 and PN40, from DN 15 to DN 50, have the same number and size of holes.

APPROXIMATE DIMENSIONS (mm) *													
SIZE DN	A PN16	A PN40	A 150 lb	A 300 lb	В	С	D	E	F **	G **	н	VOL. (L)	WGT. (kg)
15	230	230	250	259	114	385	285	100	DN 15	1/2"	235	2	21
20	230	230	255	264	114	385	285	100	DN 15	1/2"	235	2,6	22,4
25	230	230	262	274	114	385	285	100	DN 15	1/2"	235	3	24
32	260	260	290	303	140	520	410	110	DN 15	1/2"	270	5,3	36
40	260	260	294	307	140	520	410	110	DN 15	1/2"	270	6	38
50	310	310	341	354	168	590	460	130	DN 15	1/2"	300	11	52,5
65	380	400	430	448	219	710	550	160	DN 20	3/4"	375	19,3	94
80	400	410	440	453	219	710	550	160	DN 20	3/4"	375	26	102,5
100	470	490	518	532	273	815	610	205	DN 20	3/4"	450	37	169

* For certified values, consult factory. Weight and volume refer to PN16 design. Other ratings may have slightly different values. ** G and F connections can be supplied threaded or flanged.

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.





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We reserve the right to change the design and material of this product without notice.