



HUMIDITY SEPARATOR AND STRAINER SF251/S PN16 – PN40

DESCRIPTION

SF-251/S series centrifugal separators remove moisture from steam and compressed air pipelines. Steam and compressed air passing through the separator and as a result of centrifugal forces, impact and swirling effects, separate the particles with a heavier specific gravity, such as water and oil droplets, moisture in suspension, dirt and scale.

The condensate collected at the bottom of the separator, must be automatically drained by a suitable steam or compressed air trap.

Connections are flanged.

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: DN15 to DN100.

PIPE CONNECTIONS: Flanged EN1092-1 PN16 and PN40

ANSI Class 150 lbs and Class 300 lbs 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 of the same size of the pipe line. Pressure drop is normally negligible. For approximate pressure

drop calculation please consult.







CE MARKING - PED (European Directive)									
RATING	SIZE	CAT.	RATING SIZE		CAT.				
	DN15 to DN25	SEP		DN15 to DN32	1				
PN16	DN32 to DN50	1	PN40	PN40 DN40 to DN80					
	DN65 to DN100	2		DN100	3				

LIMITING CONDITIONS **									
Rating	Press. Temp. bar ⁰C		Rating Press. Temp.		Rating	Press. bar	Temp. ℃		
PN16	16	50	A NSI Cl.150 lbs	16	50	PN40 ANSI CL.300lbs	40	50	
	14	100		14	100		37	100	
	13 *	195		13 *	195		31 *	239	
	12	250		-	-		27	300	

^{*}PMO-Max.operating pressure for saturated steam.

Minimum operating temp.: -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	EN10025-2 / S235JR / 1.0038					
Strainer screen	AISI 304 / 1.4301					

EN10204 3.1 certificate available if requested with the order.

FLANGE CONNECTIONS								
Rating	SIZE	EN STD.	ANSI STD.					
PN16	* DN15 to DN50	EN1092-1 PN40	ANSI B16.5 Cl.150 lbs					
PN16	DN65 to DN100	EN1092-1 PN16	ANSI B16.5 Cl.150 lbs					
PN40	DN15 to DN100	EN1092-1 PN40	ANSI B16.5 Cl.300 lbs					

^{*} Flanges EN 1092-1 PN16 and PN40 from DN15 to DN50 has the same number and size of holes.

^{**} Rating according to EN1092:2007.





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	APPROXIMATE DIMENSIONS (mm)												
FLANGED EN1092-1-2 - ANSI													
SIZE DN	A PN16	A PN40	A 150lbs	A 300lbs	В	С	D	E	F	G	Н	VOL. * dm3	WGT ** Kg
15	230	230	250	259	114	385	285	100	DN15	1/2"	235	2	21
20	230	230	255	264	114	385	285	100	DN15	1/2"	235	2,6	22,4
25	230	230	262	274	114	385	285	100	DN15	1/2"	235	3	24
32	260	260	290	303	140	520	410	110	DN15	1/2"	270	5,3	36
40	260	260	294	307	140	520	410	110	DN15	1/2"	270	6	38
50	310	310	341	354	168	590	460	130	DN15	1/2"	300	11	52,5
65	380	400	430	448	219	710	550	160	DN20	3/4"	375	19,3	94
80	400	410	440	453	219	710	550	160	DN20	3/4"	375	26	102,5
100	470	490	518	532	273	815	610	205	DN20	3/4"	450	37	169

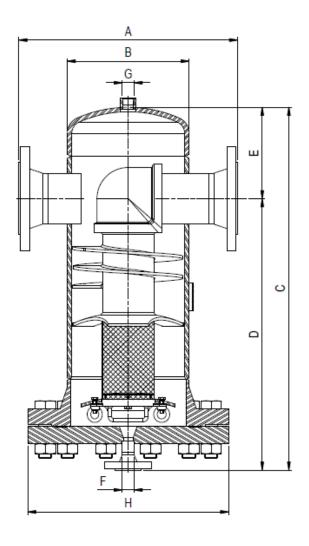
^{*} Volume correspond to the PN16 design class.Classe PN40 may have slightly lower volumes.

F and G -connections can be supplied with alternative threads or flanges.

 $\label{lem:consult_factory} \mbox{ Consult factory for certified dimensions. Dimensions subject to change without notice.}$

Note: the top of the separator is supplied with a threaded connection with a size not exceding the size of drain.

This connection is always supplied closed with a threaded socket. It can be used for air vent or balancing pipe connection.





^{**} Weight correspond to the class PN16 design.