

HUMIDITY SEPARATORS S30S (Baffle design) PN16 – PN40

DESCRIPTION

S-30 series baffle separators remove moisture from steam and compressed air pipelines. Steam and compressed air passing through the separator and as a result of expansion, 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

No moving parts.



OPTIONS: Zinc plated (compressed air)
Condensate flanged connection.

USE: Steam, compressed air and other gases (Group 2).

AVAILABLE MODELS: S30S - carbon steel body.
S30SZ - zinc plated body

SIZES: DN15 to DN300.

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.
PN16	DN15 to DN25	SEP	PN40	DN15 to DN32	1
	DN32 to DN50	1		DN40 to DN80	2
	DN65 to DN125	2		DN100 to DN150	3
	DN150 to DN200	3		DN200 to DN300	4
	DN250 to DN300	4		-	-

LIMITING CONDITIONS **								
Rating	Press. bar	Temp. °C	Rating	Press. bar	Temp. °C	Rating	Press. bar	Temp. °C
PN16	16	50	ANSI 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

** Rating according to EN1092:2007.

APPROXIMATE DIMENSIONS (mm)											
FLANGED EN1092-1 - ANSI											
SIZE DN	A PN16	A PN40	A 150 lbs	A 300 lbs	B	C	D	E	F	VOL. * dm3	WGT ** Kg
15	230	230	250	259	114	320	130	190	1/2"	2,7	6,3
20	230	230	255	264	114	320	130	190	1/2"	2,7	6,9
25	230	230	262	274	114	320	130	190	1/2"	2,8	7,3
32	260	260	290	303	140	395	170	225	1/2"	5,1	12
40	260	260	294	307	140	435	190	245	1/2"	5,7	13,3
50	310	310	341	354	168	505	210	295	1/2"	9,8	19
65	380	394	430	442	219	550	240	310	3/4"	17,9	30,8
80	400	416	440	459	219	610	290	320	3/4"	20	35
100	470	490	520	530	273	715	300	415	3/4"	37,6	49,6
125	535	561	605	622	324	845	350	495	1"	62,8	75,4
150	565	605	633	652	356	960	400	560	1"	86,2	101,2
200	605	650	685	700	406	1170	450	720	1"	139	158,7
250	720	790	784	815	508	1540	610	930	1 1/2"	283	301
300	860	914	933	964	610	1700	740	960	1 1/2"	452	433,9

F-screwed drain connection as standard. Alternatively can be supplied flanged EN1092-1 or ANSI on the same class of main dimensions.

Consult factory for certified dimensions and weight. Dimensions subject to change without notice.

Note: the top of separator is supplied with a threaded connection with size not exceeding the size of drain one. This connection is always supplied closed with a threaded socket. It can be used for air vent or balancing pipe connection.

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

FLANGE CONNECTIONS			
Rating	SIZE	EN STD.	ANSI STD.
PN16	* DN15 to DN50	EN1092-1 PN40	ANSI B16.5 Cl.150 lbs
PN16	DN65 to DN300	EN1092-1 PN16	ANSI B16.5 Cl.150 lbs
PN40	DN15 to DN300	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.

EN10204 3.1 certificate available if requested with the order.

