

# 5.70

# HUMIDITY SEPARATORS

**Valvoid**

valvole industriali

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## S25/S

## HUMIDITY SEPARATORS

## PN63

Da Ø1/2" a Ø8"  
Da DN15 a DN200

**OPTIONS**

Zinc plated fabricated carbon steel construction (compressed air).  
Condensate flanged connection.

**USE**

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

**MODELS**

SF25/S - carbon steel body.

**PIPE CONNECTIONS**

Flanged EN1092-1 PN 63.

ANSI Class 600 lbs.

SW - Socket weld to ANSI B 16.11.

**INSTALLATION**

Always with the condensate discharge pointing downwards.

See IMI, installation and maintenance instructions.



APPROXIMATE DIMENSIONS (mm)										
DW	A EN	B	C	D	E	F **	VOL dm <sup>3</sup>	WGT Kg	G SW	WGT Kg
15"	245	114	315	310	105	10"	2	5.5	300	4.5
20"	245	114	315	302	113	10"	2.5	6.5	180	4.0
25"	255	114	350	234	115	10"	3	7.8	255	5.0
30"	295	140	435	310	125	10"	5	12.8	238	6.0
40"	295	140	475	345	127	10"	5.7	14.4	245	6.7
50"	340	165	545	395	150	10"	10.5	20.8	300	15.6
65"	410	210	590	415	177	3/4"	18.5	33	-	-
80"	430	210	660	485	185	3/4"	25	39	-	-
100"	500	275	755	515	242	3/4"	35.4	58.5	-	-
125"	580	324	860	605	280	1"	50	83	-	-
150"	625	390	1000	705	298	1"	75	100	-	-
200"	685	430	1210	820	300	1"	145	175	-	-

Weight and dimensions to be confirmed in case of order.

\* Supplied with flanges PN100

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

ANSI flanges 600 lbs available on request. Consult factory for certified dimensions.

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.

CE MARKING - PED (European Directive)			
RATING	SIZE	RATING	CAT.
PN63	DN15 to DN25	1	
	DN32 to DN40	2	
	DN50 to DN100	3	
	DN125 to DN200	4	

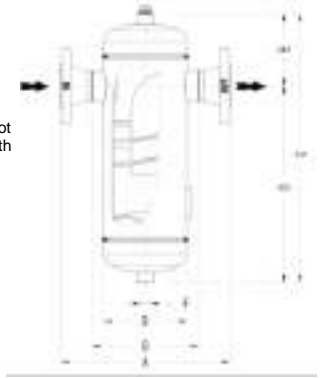
\*PMO-Max operating pressure for saturated steam. Minimum operating temp.: -10°C.  
Design code: AD-Merkblatt

\*\* Rating according to EN1092:2007.

FLANGE CONNECTIONS			
RATING	SIZE	EN STD.	ANSI STD.
PN63	DN15 to DN40	EN1092-1 PN100	ANSI B16.5 Cl. 600 lbs
PN63	DN50 to DN200	EN1092-1 PN63	ANSI B16.5 Cl. 600 lbs

MATERIALS	
DESIGNATION	MATERIAL
Body	EN10216-2 / P235GH / S.1305
Flange	EN10008-2 / P235GH / S.1305
Weld / Gasket pipe	EN10216-2 / P235GH / S.1305
EN Flange	EN10028-2 / P235GH / S.1305
ANSI Flange	ASTM A105 / S.0400
Socket	ASTM A105 / S.0400
Welding	EN10025-2 / S235JR / S.0505

EN10204-3.1 certificate available if requested with the order.



## S25/S HV and VH

## HUMIDITY SEPARATORS

## PN16 - PN40

Da Ø1/2" a Ø8"  
Da DN15 a DN200

**OPTIONS**

Zinc plated fabricated carbon steel construction (compressed air).  
Condensate flanged connection.

**USE**

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

**MODELS**

S25/S HV or VH - carbon steel body.

S25/SZ HV or VH - zinc plated body.

**PIPE CONNECTIONS**

Flanged EN1092-1 PN16 and PN40.

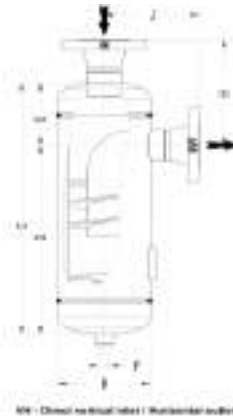
ANSI Class 150 lbs and Class 300 lbs.

Female screwed BSP or NPT on request.

**INSTALLATION**

Always with the condensate discharge pointing downwards.

See IMI, installation and maintenance instructions.



CE MARKING - PED (European Directive)			
RATING	SIZE	RATING	CAT.
PN16	DN15 to DN25	1	
	DN32 to DN40	2	
	DN50 to DN100	3	
	DN125 to DN200	4	

LIMITING CONDITIONS **					
Rating	Press. bar	Temp. °C	Rating	Press. bar	Temp. °C
PN16	16	50	16	50	50
	14	100	ANSI	14	150
	13.7	166	Cl. 150 lbs	13.7	180
	12	200		Cl. 300 lbs	27

\*PMO-Max operating pressure for saturated steam.  
Minimum operating temp.: -10°C. Design code: AD-Merkblatt

\*\* Rating according to EN1092:2007.

MATERIALS	
DESIGNATION	MATERIAL
Body	EN10216-2 / P235GH / S.1305
Flange	EN10008-2 / P235GH / S.1305
Weld / Gasket pipe	EN10216-2 / P235GH / S.1305
EN Flange	EN10028-2 / P235GH / S.1305
ANSI Flange	ASTM A105 / S.0400
Socket	ASTM A105 / S.0400
Welding	EN10025-2 / S235JR / S.0505

EN10204-3.1 certificate available if requested with the order.

FLANGE CONNECTIONS			
RATING	SIZE	EN STD.	ANSI STD.
PN16	DN15 to DN40	EN1092-1 PN16	ANSI B16.5 Cl. 150 lbs
PN16	DN50 to DN200	EN1092-1 PN16	ANSI B16.5 Cl. 150 lbs
PN40	DN15 to DN200	EN1092-1 PN40	ANSI B16.5 Cl. 300 lbs

\* Flange EN1092-1 PN16 and PN40. Body EN16 to DN200 from the entire number and size of hole.

APPROXIMATE DIMENSIONS (mm)												
FLANGED EN 1092-1 - ANSI												
SIZE DW	J PN16	J PN40	J 150lbs	J 300lbs	B	C	D	E	M	F **		
15	115	115	128	132	114	260	185	75	160	1/2"	3	9
20	115	115	128	132	114	260	185	75	160	1/2"	2.5	6
25	115	115	131	137	114	260	200	100	175	1/2"	3	7
32	130	130	145	152	140	285	280	110	168	1/2"	3	12
40	130	130	147	154	140	435	320	110	168	1/2"	5.7	13.8
50	155	155	175	177	160	500	380	120	207	1/2"	10.2	10.5
65	180	180	218	221	210	580	470	140	261	3/4"	16.8	32
80	200	200	228	230	210	610	462	148	295	3/4"	25	38
100	235	245	260	267	270	710	520	187	345	3/4"	35.4	57
125	268	280	300	311	324	845	630	215	435	1"	50	81.5
150	280	300	318	328	350	962	662	210	475	1"	75	153
200	320	329	343	352	405	1170	880	290	500	1"	140	185

\* J value correspond to the PN16 design class. Class PN40 may have slightly lower values.

\*\* Weight correspond to the class PN16 design.

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

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 exceeding 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.

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S25/SS

HUMIDITY SEPARATORS  
(Stainless steel)

PN16 – PN40

Da Ø1/2" a Ø12"  
Da DN15 a DN300

- OPTIONS**  
Condensate flanged connection.
- USE**  
Steam, compressed air and other gases (Group 2).
- MODELS**  
S25/SS - Stainless steel body.
- 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 IML, installation and maintenance instructions.



MATERIALS	
DESIGNATION	MATERIAL
Body	EN10218-5 / ASTM A312TP316L
Heads	EN10028-7 / ASTM A403 WP316L
Inlet / Outlet pipes	EN10218-5 / ASTM A312TP316L
EN flanges	EN10222-5 / ASTM A182 F316/316L
ANSI flanges	ASTM A182 F316/316L
Sockets	AISI 304 (1.4301) / AISI316 (1.4401)
Internals	EN10272 / ASTM A479/A276-316/316L

EN10204 3.1 certificate available if requested with the order.

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. 300 lbs	40	50
	14	100		14	100		37	100
	13*	195		13*	195		31*	230
	12	250		-	-		27	300

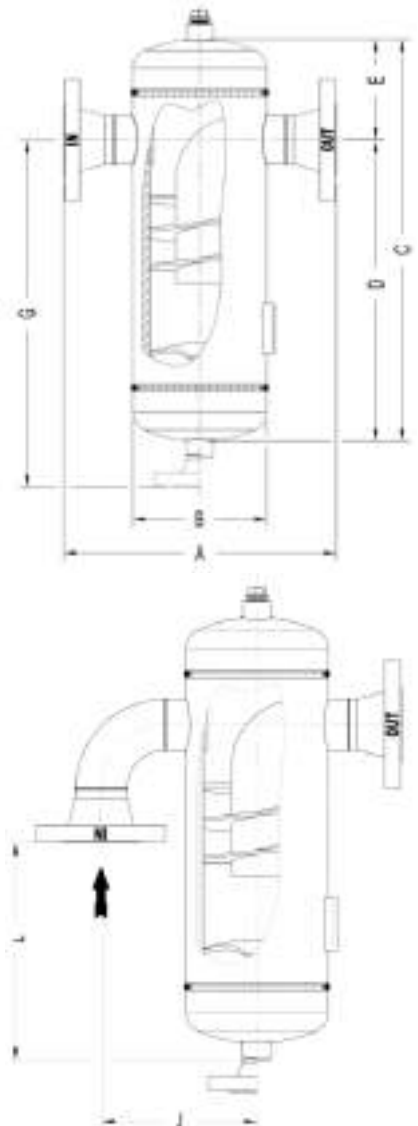
\*PN16-Max operating pressure for saturated steam.  
Minimum operating temp.: -10°C. Design code: AD-Merkblatt  
\*\* Rating according to EN1092-2007.

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.

APPROXIMATE DIMENSIONS (mm)														VOL. dm <sup>3</sup>	WGT. Kg
FLANGED EN1092-1 - ANSI															
SIZE DN	A PN16	A 150 lbs	B	C	D	E	J	L PN16	L 150 lbs	F	G PN16	G 150 lbs			
15	230	250	114	280	185	75	115	144	135	1/2"	245	255	2	5,4	
20	230	255	114	280	185	75	115	138	123	1/2"	245	255	2,5	5,8	
25	230	262	114	300	200	100	135	142	126	1/2"	260	270	3	6,8	
32	260	290	140	395	285	110	155	194	200	1/2"	345	355	5	15,4	
40	260	294	140	435	325	110	165	243	225	1/2"	385	395	5,7	12,6	
50	310	341	168	505	385	120	190	281	285	1/2"	445	455	10,5	18,4	
65	380	430	219	550	410	140	245	275	250	3/4"	470	483	18,5	29,8	
80	430	440	219	610	462	148	290	306	295	3/4"	522	535	25	33,6	
100	470	520	273	715	528	187	330	326	302	3/4"	588	601	35,4	49,7	
125	535	605	324	845	630	215	403	380	348	1"	688	704	50	76	
150	595	633	356	980	690	270	457	428	394	1"	758	774	75	104	
200	665	685	406	1170	880	290	545	495	448	1"	948	965	140	166,5	
250	720	784	508	1540	1140	400	671	714	682	1 1/2"	1210	1227	280	318	
300	860	835	610	1700	1172	528	800	882	625	1 1/2"	1262	1279	452	483	
SIZE DN	A PN40	A 300 lbs	B	C	D	E	J	L PN40	L 300 lbs	F	G PN40	G 300 lbs			
15	230	259	114	275	190	65	115	144	130	1/2"	250	264	2	6,6	
20	230	264	114	275	190	65	115	136	119	1/2"	250	264	2,5	7,4	
25	230	274	114	300	200	100	135	142	125	1/2"	260	274	3	8,5	
32	260	303	140	395	285	110	155	194	215	1/2"	345	360	5	13	
40	260	307	140	435	325	110	165	243	220	1/2"	385	399	5,7	16	
50	310	354	168	505	375	130	190	281	289	1/2"	435	450	10,5	24	
65	394	442	219	550	395	155	240	268	244	3/4"	455	472	18,5	39	
80	410	459	219	610	450	160	290	298	277	3/4"	510	527	25	44	
100	490	530	273	715	510	205	330	313	293	3/4"	570	587	35,4	75	
125	561	622	324	845	605	240	403	387	337	1"	688	690	50	114	
150	605	652	356	980	690	270	457	408	385	1"	754	776	75	131	
200	650	700	406	1170	830	340	545	490	438	1"	898	920	140	204	
250	810	815	508	1540	1140	400	671	679	668	1 1/2"	1208	1259	280	484	
300	914	904	610	1700	1172	528	800	625	597	1 1/2"	1262	1286	452	534	

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.



EWI-Elbow vertical inlet / horizontal outlet