

HUMIDITY SEPARATORS S25/S HV and S25/S VH (PN 16 and PN 40)

DESCRIPTION

The S25 HV and VH 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, impacts 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.

Maintenance-free design.

OPTIONS: Flanged condensate connection.

USE: Steam, compressed air and other gases.

AVAILABLE MODELS: S25/S HV or VH – carbon steel.

SIZES: DN 15 to DN 200.

CONNECTIONS: Flanged EN 1092-1 PN 16 or PN 40.
Flanged ASME B16.5 Class 150 or 300 on request.
Female threaded ISO 7 Rp or NPT on request.

INSTALLATION: Always with the condensate discharge pointing downwards.
See IMI – Installation and maintenance instructions.



S25/S VH



S25/S HV

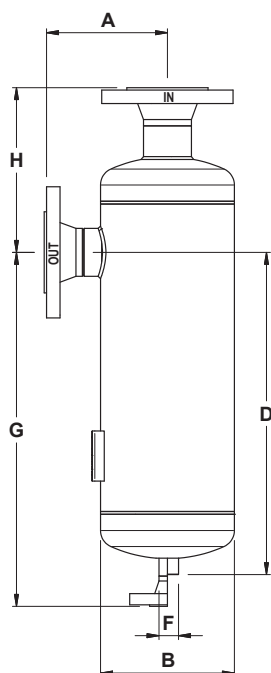
CE MARKING – GROUP 2 (PED – European Directive)

PN 16	Category	PN 40	Category
DN 15 to 25	SEP	DN 15 to 32	1 (CE marked)
DN 32 to 50	1 (CE marked)	DN 40 to 80	2 (CE marked)
DN 65 to 125	2 (CE marked)	DN 100 to 150	3 (CE marked)
DN 150 and 200	3 (CE marked)	DN 200	4 (CE marked)

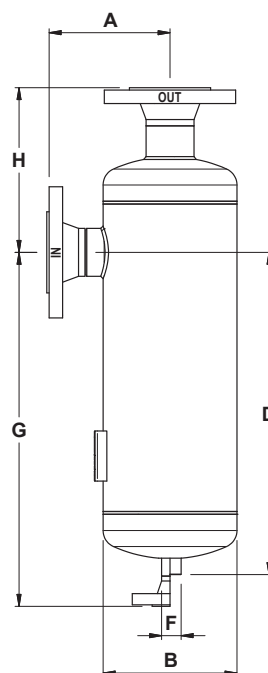
BODY LIMITING CONDITIONS *

FLANGED PN 16		FLANGED CLASS 150		FLANGED PN 40 / CLASS 300	
ALLOW. PRESS.	RELATED TEMP.	ALLOW. PRESS.	RELATED TEMP.	ALLOW. PRESS.	RELATED TEMP.
16 bar	50 °C	16 bar	50 °C	40 bar	50 °C
14 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

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



VH – Direct vertical inlet / Horizontal outlet



HV – Direct horizontal inlet / Vertical outlet

APPROXIMATE DIMENSIONS (mm) *

SIZE	A PN 16	A PN 40	A CL. 150	A CL. 300	B	D	F **	H	G	G CL. 150	G CL. 300	VOL. (L)	WGT. (kg)
DN 15	115	115	125	130	114	205	1/2"	140	245	255	260	2	5
DN 20	115	115	128	132	114	205	1/2"	160	245	255	260	2,5	6
DN 25	115	115	131	137	114	220	1/2"	157	260	270	275	3	7
DN 32	130	130	145	152	140	305	1/2"	188	345	355	360	5	12
DN 40	130	130	147	154	140	345	1/2"	195	385	395	400	5,7	13,8
DN 50	155	155	170	177	168	405	1/2"	207	445	455	460	10,5	19,5
DN 65	190	197	215	221	219	430	3/4"	261	470	482	487	18,5	32
DN 80	200	205	220	230	219	482	3/4"	295	522	534	539	25	38
DN 100	235	245	260	267	273	548	3/4"	345	588	600	605	35,4	57
DN 125	268	280	303	311	324	652	1"	435	698	714	720	50	81,5
DN 150	283	303	316	326	356	714	1"	475	760	776	782	75	153
DN 200	303	329	343	352	406	902	1"	500	948	964	970	140	195

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

** As standard, in separators manufactured with EN 1092-1 flanges, the drain connection is female threaded ISO 7 Rp. In models with ASME B16.5 flanges, this connection is female threaded NPT. Alternatively, EN 1092-1 or ASME B16.5 flanged drain connections can be supplied (ASME in the same class as main connections).

MATERIALS

DESIGNATION	MATERIAL
Body	P235GH / 1.0325
Heads	P265GH / 1.0425
Inlet / outlet pipes	P235GH / 1.0325
EN flanges	P250GH / 1.0460
ASME flanges	ASTM A105 / 1.0432
Sockets	ASTM A105 / 1.0432
Internals	S235JR / 1.0038

FLANGE CONNECTIONS

RATING	SIZE	EN STANDARD	ASME STANDARD
PN 16	* DN 15 to 50	EN 1092-1 PN 40	ASME B16.5 Cl. 150
PN 16	DN 65 to 200	EN 1092-1 PN 16	ASME B16.5 Cl. 150
PN 40	DN 15 to 200	EN 1092-1 PN 40	ASME B16.5 Cl. 300

* Flanges EN 1092-1 PN 16 and PN 40, from DN 15 to DN 50, have the same number and size of holes.