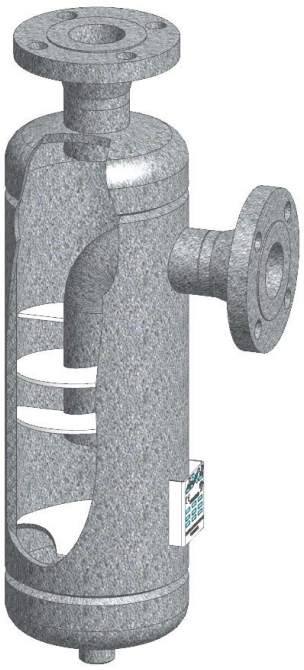
HUMIDITY SEPARATORS
S25/S HV and VH
PN16 – PN40



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.

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

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

AVAILABLE MODELS: S25/S HV or VH - carbon steel body.
S25/SZ HV or VH - zinc plated body.

SIZES: DN 15 to DN 200.

PIPE CONNECTIONS: Flanged EN1092-1 PN16 / PN40.
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, consult factory.

CE MARKING – GROUP 2 (PED – European Directive)

Rating	Size	Cat.	Rating	Size	Cat.
PN16	DN 15 to DN 25	SEP	PN40	DN 15 to DN 32	1 (CE marked)
	DN 32 to DN 50	1 (CE marked)		DN 40 to DN 80	2 (CE marked)
	DN 65 to DN 125	2 (CE marked)		DN 100 to DN 150	3 (CE marked)
	DN 150 to DN 200	3 (CE marked)		DN 200	4 (CE marked)

LIMITING CONDITIONS **

Rating	Pressure (bar)	Temperature (ºC)	Rating	Pressure (bar)	Temperature (ºC)	Rating	Pressure (bar)	Temperature (ºC)
PN16	16	50	ANSI 150 lb	16	50	PN40 / ANSI 300 lb	40	50
	14	100		14	100		37	100
	13 *	195		13 *	195		31 *	239
	12	250		–	–		27	300

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

MATERIALS	
DESIGNATION	**MATERIAL**
Body	EN 10216-2 / P235GH / 1.0325
Heads	EN 10028-2 / P265GH / 1.0425
Inlet / Outlet pipes	EN 10216-2 / P235GH / 1.0325
EN flanges	EN 10222-2 / P250GH / 1.0460
ANSI flanges	ASTM A105 / 1.0432
Sockets	ASTM A105 / 1.0432
Internals	EN 10025-2 / S235JR / 1.0038

EN 10204 3.1 certificate available if requested with the order.

FLANGE CONNECTIONS			
Rating	**Size**	**EN Standard**	**ANSI Standard**
PN16	* DN 15 to DN 40	EN 1092-1 PN40	ANSI B16.5 Cl. 150 lb
PN16	DN 65 to DN 300	EN 1092-1 PN16	ANSI B16.5 Cl. 150 lb
PN40	DN 15 to DN 300	EN 1092-1 PN40	ANSI B16.5 Cl. 300 lb

* Flanges EN1092-1 PN16 and PN40, from DN 15 to DN 50, have the same number and size of holes.

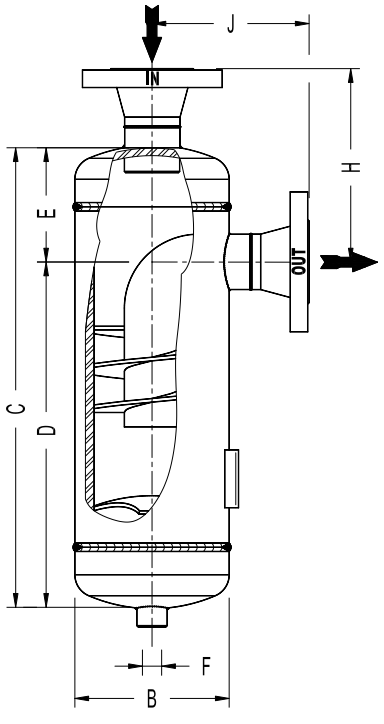
APPROXIMATE DIMENSIONS (mm) *

SIZE DN	J PN16	J PN40	J 150 lb	J 300 lb	B	C	D	E	H	F **	VOL. (L)	WGT. (kg)
15	115	115	125	130	114	260	185	75	150	1/2"	2	5
20	115	115	128	132	114	260	185	75	160	1/2"	2,5	6
25	115	115	131	137	114	300	200	100	170	1/2"	3	7
32	130	130	145	152	140	395	285	110	188	1/2"	5	12
40	130	130	147	154	140	435	325	110	195	1/2"	5,7	13,8
50	155	155	170	177	168	505	385	120	207	1/2"	10,5	19,5
65	190	197	215	221	219	550	410	140	261	3/4"	18,5	32
80	200	205	220	230	219	610	462	148	295	3/4"	25	38
100	235	245	260	267	273	715	528	187	345	3/4"	35,4	57
125	268	280	303	311	324	845	630	215	435	1"	50	81,5
150	283	303	316	326	356	962	692	270	475	1"	75	153
200	303	329	343	352	406	1170	880	290	500	1"	140	195

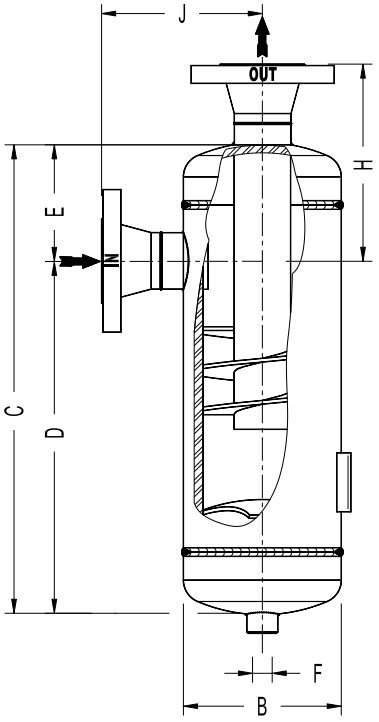
* For certified values, consult factory. Volume and weight refer to PN16 design. Other ratings may have slightly different values.

** Screwed drain connection as standard. Alternatively, different threads, or EN1092-1/ANSI flanged versions can be supplied (on the same class as main dimensions).

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.



VH - Direct vertical inlet / Horizontal outlet



HV – Direct horizontal inlet / Vertical outlet