

**HUMIDITY SEPARATORS**  
**S25/SHV and S25/SVH**  
**(PN 16 and PN 40)**



**DESCRIPTION**

The ADCA S25/SHV and S25/SVH series centrifugal separators remove moisture from steam and compressed air pipelines. Steam or 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 is automatically drained by a suitable steam or compressed air trap, which is supplied separately.

**MAIN FEATURES**

Several possibilities of installation.

No moving parts.

Maintenance-free design.

**OPTIONS:** Flanged condensate connection.  
Stainless steel construction.

**USE:** Steam, compressed air and other gases.

**AVAILABLE MODELS:** S25/SHV or S25/SVH – carbon steel.

**SIZES:** 1/2" to 8"; 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/SVH**

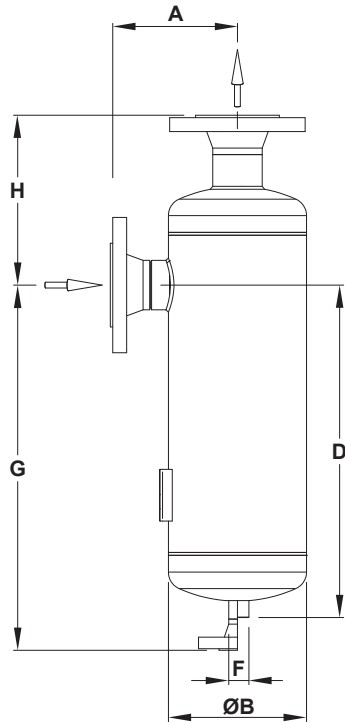


**S25/SHV**

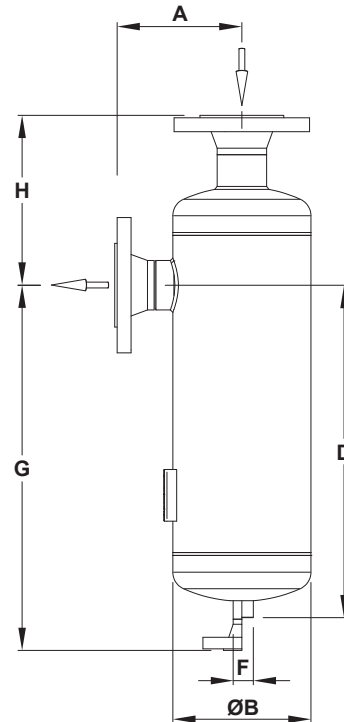
<b>CE MARKING – GROUP 2</b> <b>(PED – European Directive)</b>			
<b>PN 16</b>	<b>Category</b>	<b>PN 40</b>	<b>Category</b>
1/2" to 1" – DN 15 to 25	SEP	1/2" to 1 1/4" – DN 15 to 32	1 (CE marked)
1 1/4" to 2" – DN 32 to 50	1 (CE marked)	1 1/2" to 3" – DN 40 to 80	2 (CE marked)
2 1/2" to 5" – DN 65 to 125	2 (CE marked)	4" to 6" – DN 100 to 150	3 (CE marked)
6" to 8" – DN 150 and 200	3 (CE marked)	8" – DN 200	4 (CE marked)

<b>BODY LIMITING CONDITIONS *</b>					
<b>FLANGED PN 16</b>		<b>FLANGED CLASS 150</b>		<b>FLANGED PN 40 / CLASS 300</b>	
<b>ALLOW. PRESSURE</b>	<b>RELATED TEMP.</b>	<b>ALLOW. PRESSURE</b>	<b>RELATED TEMP.</b>	<b>ALLOW. PRESSURE</b>	<b>RELATED TEMP.</b>
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.



S25/SHV – Direct horizontal inlet / Vertical outlet



S25/SVH – Direct vertical inlet / Horizontal outlet

DIMENSIONS (mm) *													
SIZE	PN 16						PN 40	CLASS 150		CLASS 300		VOLUME (L)	WEIGHT (kg)
	A	ØB	D	F **	G	H	A	A	G	A	G		
1/2" – DN 15	115	114	205	1/2"	245	140	115	125	255	130	260	2	5
3/4" – DN 20	115	114	205	1/2"	245	160	115	128	255	132	260	2,5	6
1" – DN 25	115	114	220	1/2"	260	157	115	131	270	137	275	3	7
1 1/4" – DN 32	130	140	305	1/2"	345	188	130	145	355	152	360	5	12
1 1/2" – DN 40	130	140	345	1/2"	385	195	130	147	395	154	400	5,7	13,8
2" – DN 50	155	168	405	1/2"	445	207	155	170	455	177	460	10,5	19,5
2 1/2" – DN 65	190	219	430	3/4"	470	261	197	215	482	221	487	18,5	32
3" – DN 80	200	219	482	3/4"	522	295	205	220	534	230	539	25	38
4" – DN 100	235	273	548	3/4"	588	345	245	260	600	267	605	35,4	57
5" – DN 125	268	324	652	1"	698	435	280	303	714	311	720	50	81,5
6" – DN 150	283	356	714	1"	760	475	303	316	776	326	782	75	153
8" – DN 200	303	406	902	1"	948	500	329	343	964	352	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 units 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
Head	P265GH / 1.0425
Inlet / outlet pipe	P235GH / 1.0325
EN flange	P250GH / 1.0460
ASME flange	ASTM A105 / 1.0432
Socket	ASTM A105 / 1.0432
Internals	S235JR / 1.0038

FLANGE CONNECTIONS			
RATING	SIZE	EN STANDARD	ASME STANDARD
PN 16	1/2" to 2" DN 15 to 50 *	EN 1092-1 PN 40	ASME B16.5 Class 150
PN 16	2 1/2" to 8" DN 65 to 200	EN 1092-1 PN 16	ASME B16.5 Class 150
PN 40	1/2" to 8" DN 15 to 200	EN 1092-1 PN 40	ASME B16.5 Class 300

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