

HUMIDITY SEPARATORS S16

DESCRIPTION

The ADCA S16 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.

USE: Steam, compressed air and other gases.

AVAILABLE MODELS:
S16S – carbon steel.
S16SS – stainless steel.

SIZES: 1/2" to 2".

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Socket weld (SW) ASME B16.11 on request.
Butt weld (BW) ASME B16.25 on request.

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



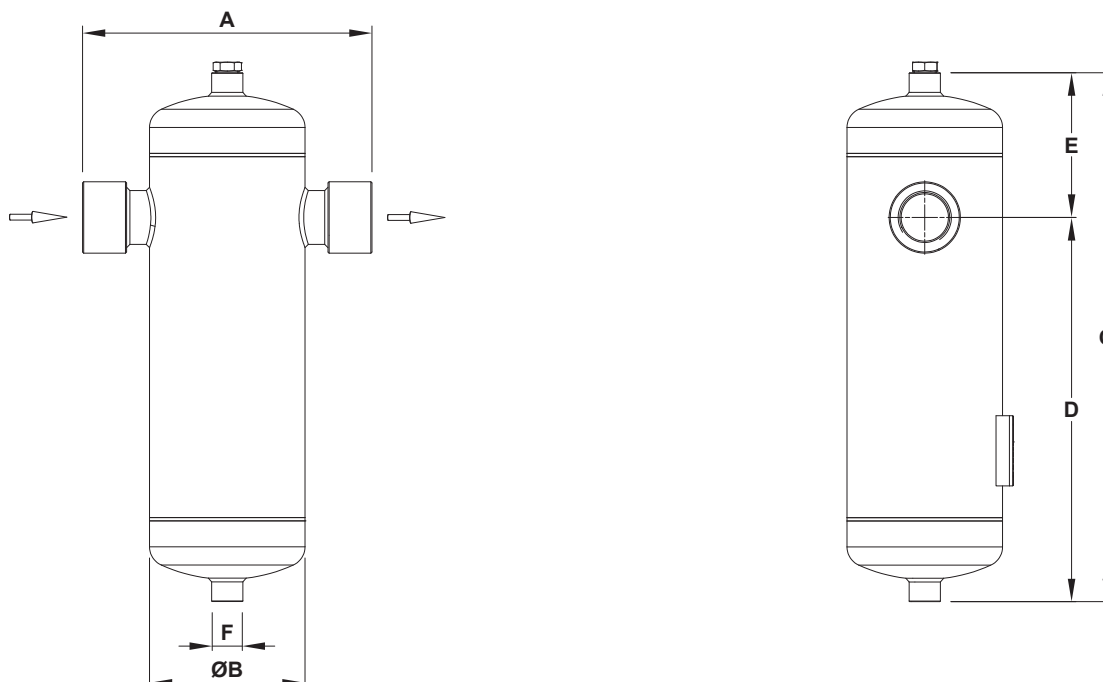
CE MARKING – GROUP 2 (PED – EUROPEAN DIRECTIVE)			
PN 16	CATEGORY	PN 40	CATEGORY
1/2" to 1"	SEP	1/2" to 1 1/4"	1 (CE marked)
1 1/4" to 2"	1 (CE marked)	1 1/2" to 2"	2 (CE marked)

BODY LIMITING CONDITIONS *							
S16S				S16SS			
PN 16		PN 40		PN 16		PN 40	
ALLOWABLE PRESSURE	RELATED TEMPERATURE	ALLOWABLE PRESSURE	RELATED TEMPERATURE	ALLOWABLE PRESSURE	RELATED TEMPERATURE	ALLOWABLE PRESSURE	RELATED TEMPERATURE
16 bar	50 °C	40 bar	50 °C	16 bar	50 °C	40 bar	50 °C
14,8 bar	100 °C	37,1 bar	100 °C	15,1 bar	100 °C	37,9 bar	100 °C
13,3 bar **	200 °C	33,3 bar **	200 °C	12,7 bar **	200 °C	31,8 bar **	200 °C
12,1 bar	250 °C	30,4 bar	250 °C	11,9 bar	250 °C	29,9 bar	250 °C

* Rating according to EN 1092-1:2018.

** PMO – Maximum operating pressure for saturated steam.

Minimum operating temperature: -10 °C. Design code: AD-Merkblatt.



DIMENSIONS (mm)

SIZE	S16S and S16SS						S16S										S16SS					
	PN 16						PN 16		PN 40						PN 16		PN 40					
	A	ØB	C	D	E	F *	VOL. (L)	WGT. (kg)	C	D	E	VOL. (L)	WGT. (kg)	VOL. (L)	WGT. (kg)	C	D	E	VOL. (L)	WGT. (kg)		
1/2"	210	114	300	205	95	1/2"	2	3,7	315	210	105	2,2	5,2	2	3,2	300	205	95	2,1	4,5		
3/4"	210	114	300	205	95	1/2"	2,5	3,9	315	210	105	2,2	5,4	2,3	3,4	300	205	95	2,2	4,6		
1"	210	114	340	220	120	1/2"	3	4,6	340	220	120	2,4	6	2,7	4	340	220	120	2,5	5,4		
1 1/4"	245	141	435	305	130	1/2"	5	8,2	435	305	130	4,8	11,3	5,5	7	435	295	140	4,8	11,8		
1 1/2"	260	141	475	345	130	1/2"	5,7	9,3	475	340	135	5,4	12,7	6,1	8	475	330	145	5,7	13,2		
2"	300	168	545	405	140	1/2"	10,5	13,6	545	395	150	9,2	19,6	10,9	10,9	545	400	145	9,2	18,8		

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

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 sensing pipe connection.

MATERIALS

DESIGNATION	S16S	S16SS
Body	P235GH / 1.0325	AISI 316L / 1.4404
Head	P265GH / 1.0425	AISI 316L / 1.4404; AISI 316Ti / 1.4571
Inlet / outlet pipe	P235GH / 1.0325	AISI 316L / 1.4404
Inlet / outlet socket	ASTM A105 / 1.0432	AISI 316L / 1.4404
Socket	ASTM A105 / 1.0432	AISI 316L / 1.4404
Internals	S235JR / 1.0038	AISI 316L / 1.4404