

HUMIDITY SEPARATORS S25/S PN63

DESCRIPTION

The S25 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 – carbon steel body.

SIZES: DN 15 to DN 200.
PIPE

CONNECTIONS: Flanged EN1092-1 PN 63.
Flanged ANSI Class 600 lb.
SW – Socket weld to ANSI B 16.11.

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)	
PN63	Category
DN 15 to DN 25	1 (CE marked)
DN 32 to DN 50	2 (CE marked)
DN 65 to DN 125	3 (CE marked)
DN 150 to DN 200	4 (CE marked)

LIMITING CONDITIONS **		
Rating	Pressure (bar)	Temperature (°C)
PN63 / ANSI 600 lb	58	100
	47 *	261
	43	300

* PMO – Maximum operating pressure for saturated steam;

** Rating according to EN 1092-1:2018;
Minimum operating temperature: -10 °C;
Design code: AD-Merkblatt.

APPROXIMATE DIMENSIONS (mm) *										
SIZE DN	A PN63	B	C	D	E	F ***	VOL. (L)	WGT. (kg)	G SW	WEIGHT (kg)
15 **	245	114	315	210	105	1/2"	2	5,5	200	4,5
20 **	245	114	315	202	113	1/2"	2,5	6,5	190	4,6
25 **	265	114	350	234	116	1/2"	3	7,8	205	5,5
32 **	295	140	435	310	125	1/2"	5	12,8	238	8,8
40 **	295	140	475	348	127	1/2"	5,7	14,4	245	9,7
50	340	168	545	395	150	1/2"	10,5	20,6	300	15,6
65	410	219	590	413	177	3/4"	18,5	33	-	-
80	430	219	650	465	185	3/4"	25	39	-	-
100	500	273	755	513	242	3/4"	35,4	58,5	-	-
125	590	324	885	605	280	1"	50	83	-	-
150	625	356	1000	705	295	1"	75	155	-	-
200	680	406	1210	820	390	1"	140	178	-	-

* For certified values, consult factory.

** Supplied with PN100 flanges.

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

ANSI 600 lb flanges available on request.

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.

MATERIALS	
DESIGNATION	MATERIAL
Body	EN 10216-2 / P235GH / 1.0305
Heads	EN 10028-2 / P265GH / 1.0425
Inlet / Outlet pipes	EN 10216-2 / P235GH / 1.0305
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
PN63	* DN 15 to DN 40	EN 1092-1 PN100	ANSI B16.5 Cl. 600 lb
PN63	DN 50 to DN 200	EN 1092-1 PN63	ANSI B16.5 Cl. 600 lb

