

HUMIDITY SEPARATORS SH 25 PN16 – PN40

DESCRIPTION

SH-25 series horizontal centrifugal separators remove moisture from steam and compressed air pipelines. Steam and compressed air passing through the separator and as a result of centrifugal forces, impact and swirling effects, separate the particles with a heavier specific gravity, such as water and oil droplets, moisture in suspension, dirt and scale.

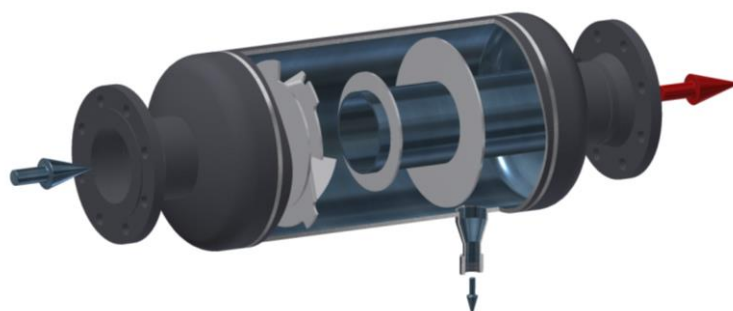
The condensate collected at the bottom of the separator, must be automatically drained by a suitable steam or compressed air trap.

Connections are threaded or flanged.

MAIN FEATURES

In-line design

No moving parts.



- OPTIONS:** Condensate flanged connection.
- USE:** Steam, compressed air and other gases (Group 2).
- AVAILABLE MODELS:** SH25/S - carbon steel body.
- SIZES:** DN15 to DN100.
- PIPE CONNECTIONS:** Flanged EN1092-1 PN16 and PN40
ANSI Class 150 lbs and Class 300 lbs
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 of the same size of the pipe line. Pressure drop is normally negligible. For approximate pressure drop calculation please consult.

CE MARKING - PED (European Directive)					
RATING	SIZE	CAT.	RATING	SIZE	CAT.
PN16	DN15 to DN25	SEP	PN40	DN15 to DN32	1
	DN32 to DN50	1		DN40 to DN80	2
	DN65 to DN100	2		DN100	3

LIMITING CONDITIONS **								
Rating	Press. bar	Temp. °C	Rating	Press. bar	Temp. °C	Rating	Press. bar	Temp. °C
PN16	16	50	ANSI Cl.150 lbs	16	50	PN40 ANSI CL.300lbs	40	50
	14	100		14	100		37	100
	13 *	195		13 *	195		31 *	239
	12	250		-	-		27	300

*PMO-Max.operating pressure for saturated steam.

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

** Rating according to EN1092:2007.

MATERIALS	
DESIGNATION	MATERIAL
Body	EN10216-2 / P235GH / 1.0325
Heads	EN10028-2 / P265GH / 1.0425
Inlet / Outlet pipes	EN10216-2 / P235GH / 1.0325
EN flanges	EN10222-2 / P250GH / 1.0460
ANSI flanges	ASTM A105 / 1.0432
Sockets	ASTM A105 / 1.0432
Internals	EN10025-2 / S235JR / 1.0038

FLANGE CONNECTIONS			
Rating	SIZE	EN STD.	ANSI STD.
PN16	* DN15 to DN50	EN1092-1 PN40	ANSI B16.5 Cl.150 lbs
PN16	DN65 to DN100	EN1092-1 PN16	ANSI B16.5 Cl.150 lbs
PN40	DN15 to DN100	EN1092-1 PN40	ANSI B16.5 Cl.300 lbs

* Flanges EN 1092-1 PN16 and PN40 from DN15 to DN50 has the same number and size of holes.

EN10204 3.1 certificate available if requested with the order.

APPROXIMATE DIMENSIONS (mm)												
FLANGED EN1092-1 - ANSI											THREADED	
SIZE DN	A PN16	A PN40	A 150lbs	A 300lbs	B	E	F	G	VOL. * dm3	WGT ** Kg	C	WGT ** Kg
15	365	365	384	394	114	136	1/2"	115	2,1	4,1	357	2,7
20	370	370	395	404	114	138	1/2"	115	2,2	4,8	362	2,8
25	390	390	421	434	114	138	1/2"	115	2,4	5,2	396	2,9
32	475	475	505	521	140	148	1/2"	130	4,6	8	487	4,6
40	515	515	549	562	140	152	1/2"	130	5,1	9	521	4,7
50	590	590	621	634	168	166	1/2"	143	8,7	11,6	606	6,5
65	656	670	706	718	219	196	3/4"	180	16,3	20,4	--	--
80	724	740	764	783	219	200	3/4"	180	18,6	21,7	--	--
100	824	850	872	891	273	217	3/4"	207	28,5	31	--	--

F-screwed drain connection as standard. Alternatively can be supplied flanged EN1092-1 or ANSI on the same class of main dimensions. Consult factory for certified dimensions and weight. Dimensions subject to change without notice.

Note: the top of separator is supplied with a threaded connection with size not exceeding the size of drain one. This connection is always supplied closed with a threaded socket. It can be used for air vent or balancing pipe connection.

