

HUMIDITY SEPARATORS S25/SS (Stainless steel) PN16 – PN40

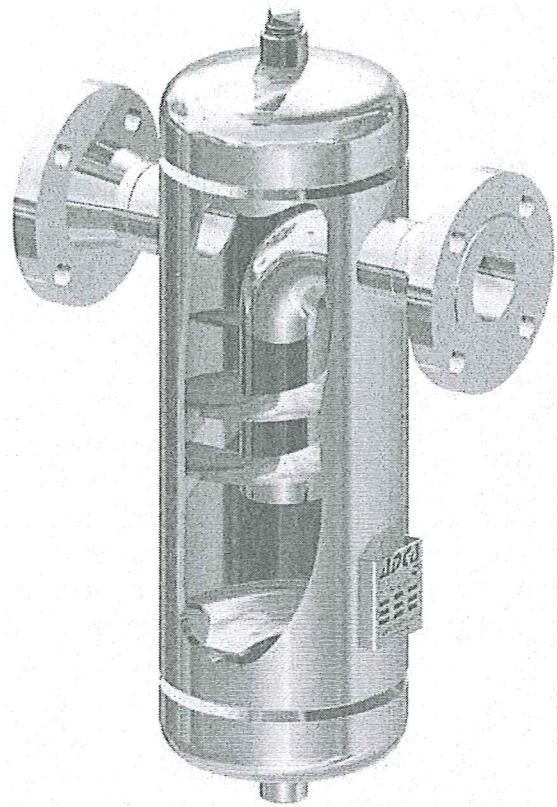
DESCRIPTION

S-25SS series 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 flanged.

MAIN FEATURES

Several possibilities of installation.
No moving parts.



- OPTIONS:** Condensate flanged connection.
- USE:** Steam, compressed air and other gases (Group 2).
- AVAILABLE MODELS:** S25/SS - Stainless steel body.
- SIZES:** DN15 to DN300.
- PIPE CONNECTIONS:** Flanged DIN 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.

| LIMITING CONDITIONS | | | | | | | | | | | |
|---------------------|------------|----------|--------------------|------------|----------|---------------------------|------------|----------|---------------------------|------------|----------|
| Rating | Press. bar | Temp. °C | Rating | Press. bar | Temp. °C | Rating | Press. bar | Temp. °C | Rating | Press. bar | Temp. °C |
| PN16 | 16 | 120 | ANSI Cl.150 lbs | 16 | 120 | PN25 ANSI CL.300lbs | 25 | 120 | PN40 ANSI CL.300lbs | 40 | 120 |
| | 14 * | 198 | | 14 * | 198 | | 21 * | 220 | | 32 * | 239 |
| | 13 | 250 | | - | - | | 17 | 300 | | 28 | 300 |

*PMO-Max.operating pressure for saturated steam. Minimum operating temp.: -10°C. Design code: AD-Merkblatt

| CE MARKING - GROUP 2 GASES CATEGORIES | | | | | | | | |
|---------------------------------------|----------------|------|--------|----------------|------|--------|----------------|------|
| RATING | SIZE | CAT. | RATING | SIZE | CAT. | RATING | SIZE | CAT. |
| PN16 | DN15 to DN25 | SEP | PN25 | DN15 | SEP | PN40 | DN15 to DN32 | 1 |
| | DN32 to DN50 | 1 | | DN20 to DN40 | 1 | | DN40 to DN80 | 2 |
| | DN65 to DN125 | 2 | | DN50 to DN100 | 2 | | DN100 to DN150 | 3 |
| | DN150 to DN200 | 3 | | DN125 to DN150 | 3 | | DN200 to DN300 | 4 |
| | DN250 to DN300 | 4 | | DN200 to DN300 | 4 | | - | |

CE Marking

This product have been designed for use on water steam, air and other gases which are in Group 2 of the PED-European Pressure Equipment Directive 97/23/EC and it comply with those requirements.

The product carries the CE mark when falling in category 1 and above.

| APPROXIMATE DIMENSIONS (mm) | | | | | | | | | | | | |
|-----------------------------|--------|--------|--------|----------|----------|-----|------|------|-----|--------|------------|-----------|
| FLANGED DIN - ANSI | | | | | | | | | | | | |
| SIZE DN | A PN16 | A PN25 | A PN40 | A 150lbs | A 300lbs | B | C | D | E | F | VOL. * dm3 | WGT ** Kg |
| 15 | 230 | 230 | 230 | 250 | 259 | 114 | 260 | 190 | 70 | 1/2" | 2 | 5 |
| 20 | 230 | 230 | 230 | 255 | 264 | 114 | 260 | 185 | 75 | 1/2" | 2,5 | 6 |
| 25 | 230 | 230 | 230 | 262 | 274 | 114 | 300 | 200 | 100 | 1/2" | 3 | 7 |
| 32 | 260 | 260 | 260 | 290 | 306 | 140 | 395 | 285 | 110 | 1/2" | 5 | 12 |
| 40 | 260 | 260 | 260 | 294 | 307 | 140 | 435 | 325 | 110 | 1/2" | 5,7 | 13,8 |
| 50 | 310 | 310 | 310 | 341 | 354 | 168 | 505 | 385 | 120 | 1/2" | 10,5 | 19,5 |
| 65 | 380 | 394 | 394 | 430 | 442 | 219 | 550 | 410 | 140 | 3/4" | 18,5 | 32 |
| 80 | 400 | 416 | 416 | 440 | 459 | 219 | 610 | 462 | 148 | 3/4" | 25 | 38 |
| 100 | 485 | 511 | 511 | 533 | 553 | 273 | 715 | 528 | 187 | 3/4" | 35,4 | 57 |
| 125 | 535 | 561 | 561 | 605 | 622 | 324 | 845 | 630 | 215 | 1" | 50 | 81,5 |
| 150 | 585 | 605 | 605 | 635 | 652 | 356 | 962 | 692 | 270 | 1" | 75 | 153 |
| 200 | 605 | 641 | 657 | 685 | 703 | 406 | 1170 | 880 | 290 | 1" | 140 | 195 |
| 250 | 720 | 756 | 790 | 784 | 815 | 508 | 1540 | 1140 | 400 | 1 1/2" | 280 | 321 |
| 300 | 840 | 868 | 914 | 913 | 944 | 610 | 1700 | 1172 | 528 | 1 1/2" | 400 | 465 |

* Volume correspond to the class PN16 design. Classes PN25 and above may have slightly lower volumes.

** Weight correspond to the class PN16 design.

F-screwed drain connection as standard. Alternatively can be supplied flanged DIN or ANSI on the same class of main dimensions.

Consult factory for certified dimensions. 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.

| MATERIALS | | FLANGE CONNECTIONS | | | |
|----------------------|--------------------------------------|--|----------------|---------------|-----------------------|
| DESIGNATION | MATERIAL | Rating | Sep. SIZE | DIN EN STD. | ANSI STD. |
| Body | EN10216-5 / ASTM A312TP316L | PN16 | * DN15 to DN50 | PN40 DIN 2635 | ANSI B16.5 Cl.150 lbs |
| Heads | EN10028-7 / ASTM A403 WP316L | PN16 | DN65 to DN300 | PN16 DIN 2633 | ANSI B16.5 Cl.150 lbs |
| Inlet / Outlet pipes | EN10216-5 / ASTM A312TP316L | PN25 | DN15 to DN150 | PN40 DIN 2635 | ANSI B16.5 Cl.300 lbs |
| DIN flanges | EN10222-5 / ASTM A182 F316/316L | PN25 | DN200 to DN300 | PN25 DIN 2634 | ANSI B16.5 Cl.300 lbs |
| ANSI flanges | ASTM A182 F316/316L | PN40 | DN15 to DN300 | PN40 DIN 2635 | ANSI B16.5 Cl.300 lbs |
| Sockets | AISI 304 (1.4301) / AISI316 (1.4401) | * Flanges PN16 (DIN2633) and PN40 (DIN2635) from DN15 to DN50 has the same number and size of holes. | | | |
| Internals | EN10272 / ASTM A479/A276-316/316L | | | | |

EN10204 3.1 certificate available if requested with the order.

