

VERTICAL DEAERATOR



Description

Hydraulic vertical deaerator remove the air in hydraulic system to obtain maximum thermal efficiency and reduce the corrosion. Our deaerator have micro-bubble filtration system, are insulate and have automatic air vent valve to expulse the air.

Operation

To remove the air from the fluid, the water must pass through a stainless steel net where the air bubbles condense. The low speed of the water in the accumulation favors the rising of the air bubbles, which will be expelled from the automatic air vent valve.

Technical data

| | |
|-------------------------------------|----------------------------|
| CODE | DISCI |
| WORKING TEMPERATURE | 0°-110° |
| MAXIMUM WORKING PRESSURE | 10 bar |
| MAXIMUM FLUID SPEED | 1,3 M/S |
| FLUID | water, glycol solution 50% |
| DEAERATOR CONNECTION | female threaded fits |
| AUTOMATIC AIR VENT VALVE CONNECTION | 1" F – 2" F UNI ISO 228 |

Materials

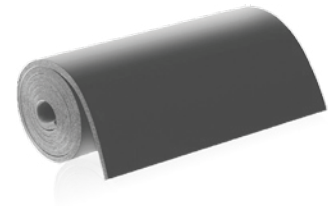
| | |
|--------------------------|---------------------------|
| BODY | stainless steel AISI 304 |
| INTERNAL NETWORK | stainless steel AISI 304 |
| INTERNAL SHEET METAL | stainless steel AISI 304 |
| AUTOMATIC AIR VENT VALVE | brass UNI EN 12165 CW617N |
| HYDRAULIC SEALS | EPDM, non asbestos NBR |

All our products are tested to verify there are no leaks.
MB MICHELUZZI SRL reserves to ameliorate and modify its products anytime and without forewarning.

Technical characteristics insulation

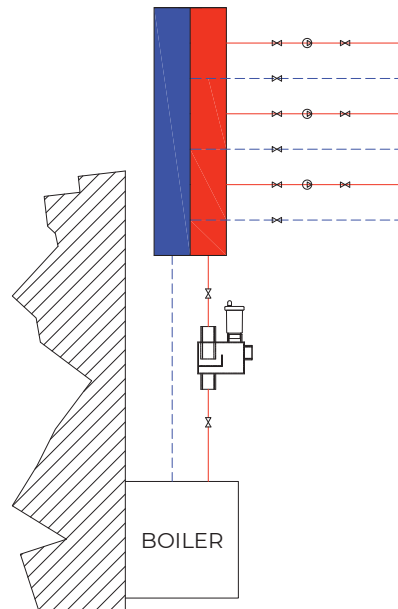
The vertical deaerator is insulated and there is a stainless steel protection in addition to the insulation. The insulation has these propriety:

| | |
|--------------------------------|---------------------------------|
| MATERIAL | closed cell expanded elastomer |
| DENSITY | 35kg/m3 |
| THERMAL CONDUCTIVITY | 0.050 W(mK) |
| WORKING TEMPERATURE | 0°C-110°C |
| EXTERNAL INSULATION PROTECTION | stainless steel |
| THICKNESS | 30mm – 40mm |
| FIRE REACTION | euroclass B ₁ -s2,d0 |



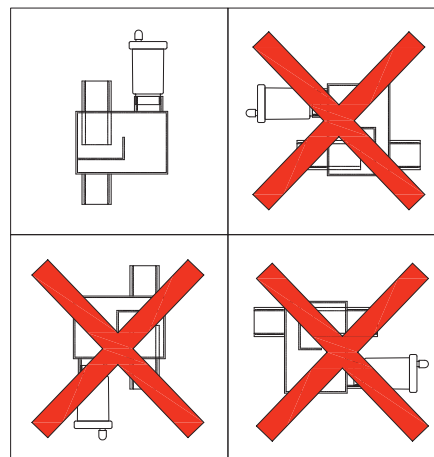
Installation

As you can see from the picture, this is the right way to install the vertical deaerator.



Placement

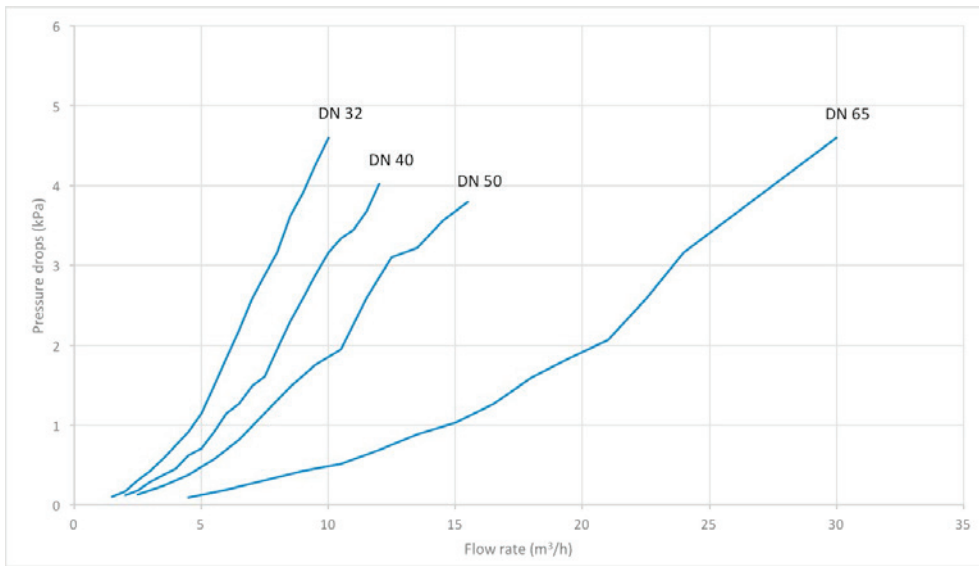
The positioning of the vertical deaerator is correct only when it is in the position indicated in the drawing.



Pressure drops

Being a filtering system, which acts as a barrier to dirt, an impediment to the flow of the fluid, is obtained resulting in a pressure drop.

Data are shown in the graph below:

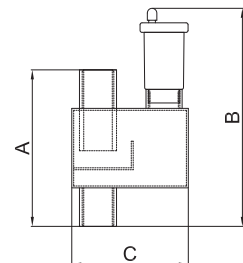


Production range

| FEMALE THREADED CONNECTION FITS | | | | |
|---------------------------------|------|----------------------------|------------|-----------|
| CODE | DN | Recommended flow rate m³/h | Volume (l) | Mass (kg) |
| ART. DISCI3202C | DN32 | 4 | 0,5 | 1 |
| ART. DISCI4003C | DN40 | 6 | 2 | 4,3 |
| ART. DISCI5004C | DN50 | 9,5 | 4,5 | 8,7 |
| ART. DISCI6505C | DN65 | 16 | 4,5 | 9 |

Size

| CODE | DN | A (mm) | B (mm) | C (mm) |
|------------|------|--------|--------|--------|
| DISCI3202C | DN32 | 165 | 350 | 232 |
| DISCI4003C | DN40 | 271 | 360 | 245 |
| DISCI5004C | DN50 | 353 | 386 | 410 |
| DISCI6505C | DN65 | 385 | 280 | 430 |



Specification text

Vertical deaerator. Connections 1”1/4 F from 2”1/2 f with union. Nickel plated steel body. Water use fluids, non-dangerous solution glycolates excluded from the scope of Directive 67/548/EC. Maximum glycol percentage glycol 50%. Maximum operating pressure 10 bar. Operating temperature range 0-110°C.

Supplied with:

- 1/2” - 3/4” - 1” - 2” automatic air vent valve, float in PP, hydraulic seals in EPDM, non-asbestos NBR
- 1/2” - 3/4” drain valve
- 1/2”F probe holder connection
- Insulation in closed cell K-fla
- Stainless steel AISI 304 insulation protection