

**DUSTLESS – Perforate Screen (DPS)**

DPS type sheets are drilled with conical triangular holes, produced through a special process that makes it possible to make openings with dimensions smaller than the thickness of the sheet, including in materials such as stainless steel.

The conical shape of the holes reduces the resistance to the passage of the fluid, favoring a more efficient and directed air flow.

**>> Usage:**

Plates are used in various industries as a separation element in chutes, selection element in vibrating machines, gas distribution deck for fluidized bed units, air dust eliminators and agglomerators.

**>> Why we provide:**

The national market does not have suppliers with the technical capacity to develop tools that guarantee the required tolerances in applications where dimensional control is critical.

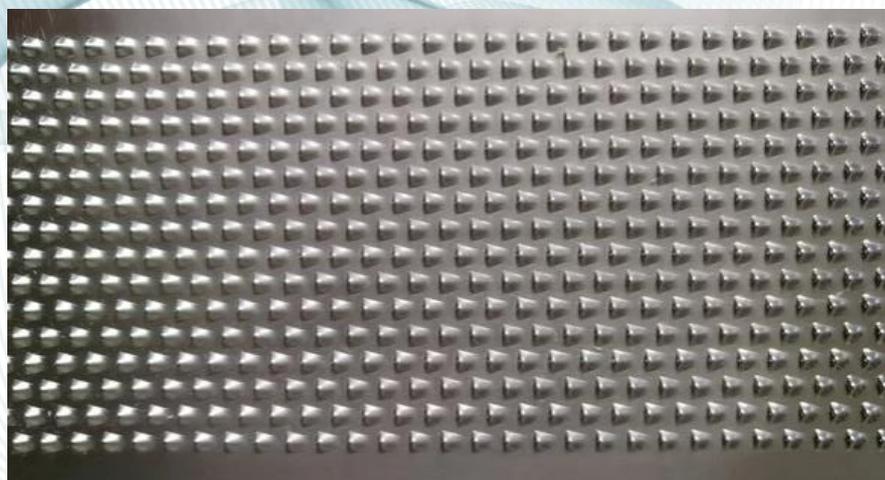
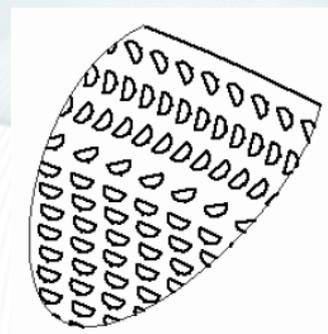
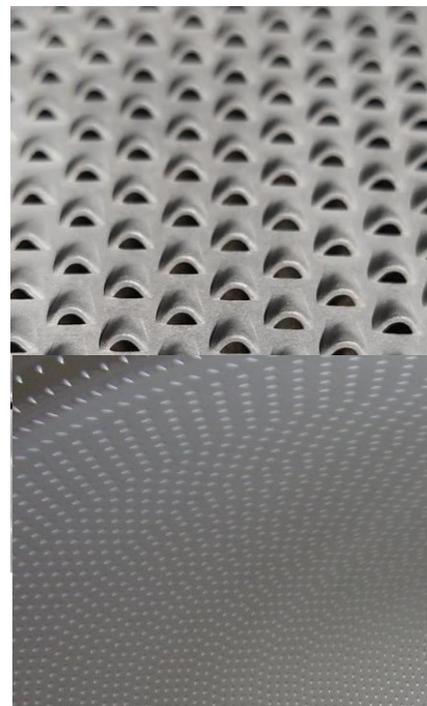
We have developed different punching patterns to increase the flexibility of applying sheet metal in industrial processes. Our differential is in the design and manufacture of specific tools, in the strict control of the forming process and in the care with packaging and packaging, ensuring dimensional integrity - especially in applications with extremely tight tolerances.

**>> Versions:**

Fabricating DPS sheets within the specified tolerances requires the use of special tools. We develop tools for standard dimensions (other dimensions on request).

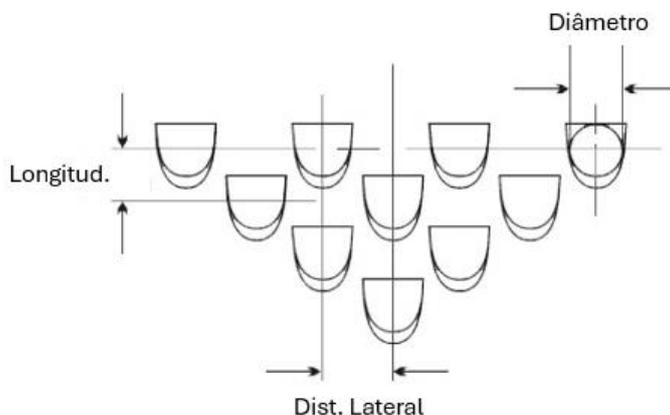
Sheets can be manufactured in: 304 Stainless Steel, 304L Stainless Steel, 316 Stainless Steel and 316L Stainless Steel.

As an additional differential, it is possible to supply plates with different flow directions in the same part, including radial configuration.



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» Construction options and process data:



Model	DPS-21-07	DPS-19-05	DPS-17-05	DPS-16-05	DPS-15-04	DPS-15-05	DPS-14-05	DPS-12-05	DPS-11-05	DPS-10-05
Opening	2,1%	1,9%	1,7%	1,6%	1,5%	1,5%	1,4%	1,2%	1,1%	1,0%
Hole height (mm)	0,7	0,5	0,5	0,5	0,4	0,5	0,5	0,5	0,5	0,5
Diameter (mm)	4	4	4	4	4	4	4	4	4	4
Plate thickness (mm)	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Lateral Distance (mm)	6,5	5,75	5,75	6	5,75	6,5	7	7,5	7,5	8
Longitudinal Distance (mm)	14	12	14	14	12	14	14	15	16	16
Number of holes (#/m <sup>2</sup> )	5250	6970	5950	5740	6970	5250	4900	4225	3965	3721
Tool	73x110-27	72x112-22	72x111-22	72x118-22	72x116-22	72x114-22	72x113-22	72x109-22	72x108-22	72x107-22
On-Machine Adjustment (UT)	-0,4	-0,6	-0,62	-0,68	-0,72	-0,8	-0,81	-0,85	-0,86	-0,92

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>> Caption:

— DPS-21-07 — DPS-19-05 — DPS-17-05 — DPS-16-05 — DPS-15-04  
 — DPS-15-05 — DPS-14-05 — DPS-12-05 — DPS-11-05 — DPS-10-05

>> Head Loss as a Function of Flow Rate per m2

