

**DUSTLESS – Perforate Screen (DPS)**

DPS type sheets are perforated with conical or round 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 directs the passage of the fluid, favoring the flow of air. The circular shape allows for a better distribution of the air flow with less pressure loss.

**>> Usage:**

The plates are used in a variety of industrial applications, such as 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.

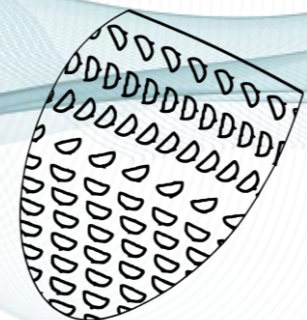
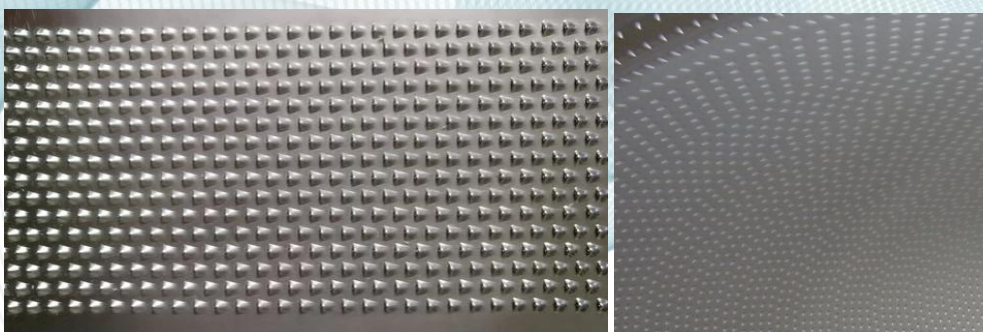
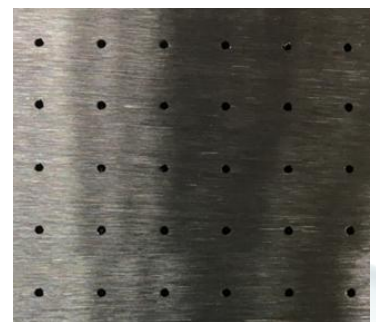
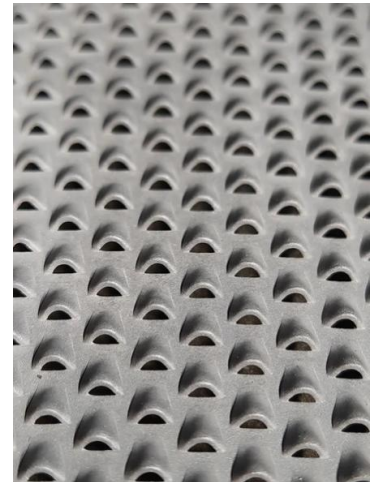
We have developed different punching patterns to increase the flexibility of applying sheet metal in industrial processes. Our differential is in the design and manufacture of specific tools, in the strict control of the forming process and in the care with packaging and packaging, ensuring dimensional integrity – especially in applications with extremely tight tolerances, in addition to the proper calculation of pressure loss and flow velocity in the hole, information necessary for the correct choice of the perforated sheet.

**>> Versions:**

The manufacture of DPS sheets within the specified tolerances requires the use of special tools, they need to be calibrated sharpened at specific intervals. We develop tools for standard dimensions (other dimensions on request).

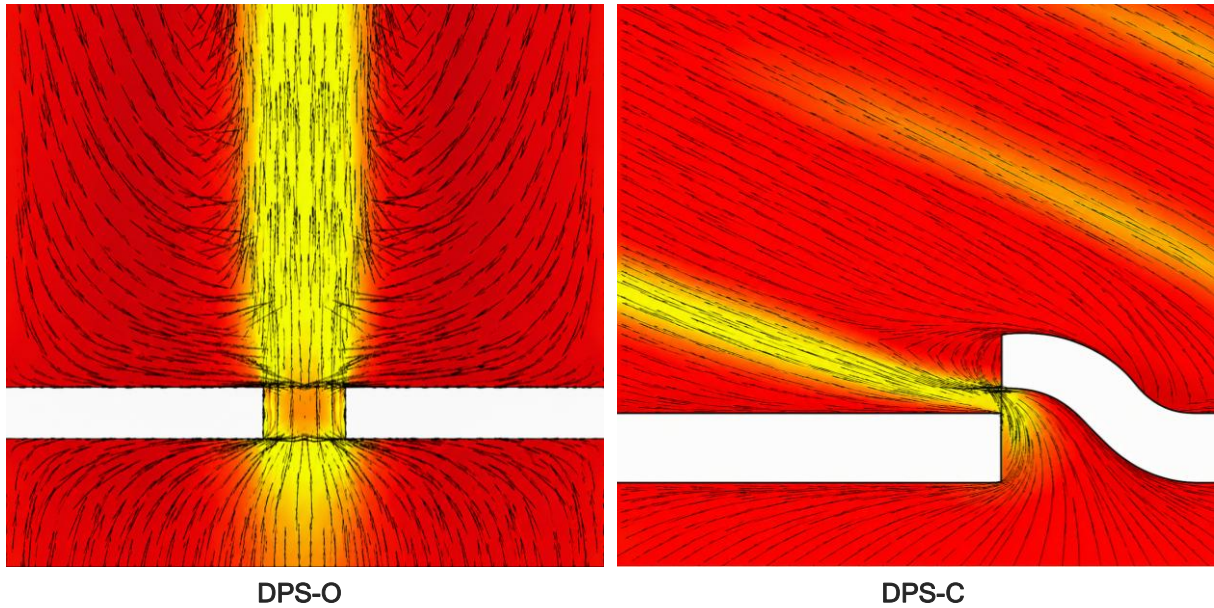
Sheets can be manufactured in: 304 Stainless Steel, 304L Stainless Steel, 316 Stainless Steel and 316L Stainless Steel.

Our differential is in the supply of plates with different flow directions in the same part, including radial configuration.

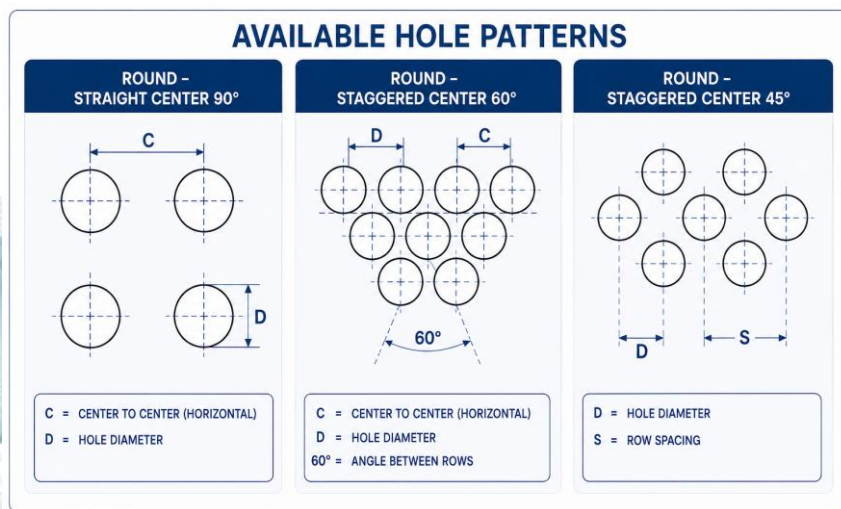


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➤ FLOW STUDY:



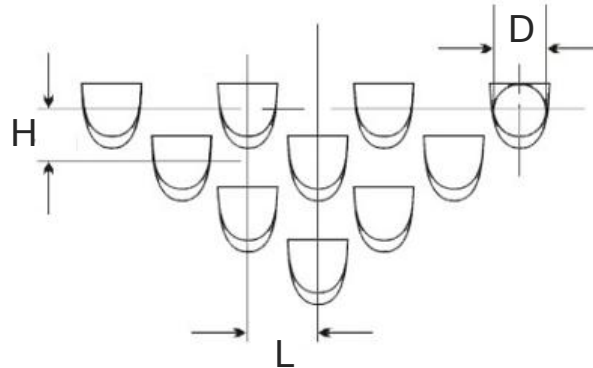
➤ DPS-O:



Model	DPS-O-17-15	DPS-O-14-15	DPS-O-12-15	DPS-O-10-15	DPS-O-20-15	DPS-O-16-15	DPS-O-14-15	DPS-O-12-15	DPS-O-10-15	DPS-O-24-15	DPS-O-20-15	DPS-O-18-15	DPS-O-11-15
Opening	1,8%	1,5%	1,2%	1,0%	2,0%	1,7%	1,4%	1,2%	1,0%	2,5%	2,1%	1,8%	1,6%
Thickness (mm)	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0
Bore (mm)	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Elevation (L;S) (mm)	10	11	12	13	10	11	12	13	14	12	13	14	15
Arrangement	90	90	90	90	60	60	60	60	60	45	45	45	45
Number of holes (#/m2)	10.000	8.264	6.944	5.917	11.547	9.543	8.019	6.833	5.891	13.889	11.834	10.204	8.889

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>> DPS-C:



Model	DPS-C-21-07	DPS-C-19-05	DPS-C-17-05	DPS-C-16-05	DPS-C-15-04	DPS-C-15-05	DPS-C-14-05	DPS-C-12-05	DPS-C-11-05	DPS-C-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 "D" (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 "L" (mm)	6,5	5,75	5,75	6	5,75	6,5	7	7,5	7,5	8
Longitudinal Distance "H" (mm)	14	12	14	14	12	14	14	15	16	16
Number of holes (#/m2)	5.250	6.970	5.950	5.740	6.970	5.250	4.900	4.225	3.965	3.721
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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» Pressure Drop:

