

NELES Q2-PLATE ATTENUATOR FOR NOISE REDUCTION OF GAS AND STEAM FLOW

The noise created by throttling gas or steam can be effectively reduced by mounting a Metso Q2-Plate attenuator downstream of the control valve.

The Q2-Plate is a fixed resistor which divides the pressure drop between the valve and the plate to minimize the noise generated.

Noise attenuation is achieved by the specific hole geometry of the Q2-Plate. Q2-Plate is the new generation noise attenuation solution with new level of performance.

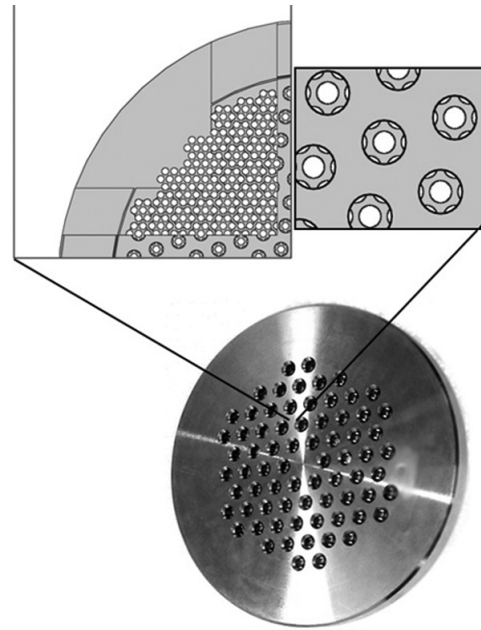
Benefits

- Improved noise attenuation through unique hole geometry.
- Compact design and short face to face length.
- One piece solid pressure boundary.
- Large hole diameter compared to conventional low noise devices.
- Minimal pipe changes required when mounting into existing systems.
- Q2- plate is available with three different C_v option per nominal size.
- Accurate prediction of flow and noise conditions through Metso Nelprof® program.

Standard plate flow coefficients

DN/Inch	C_v high	C_v 1st reduction	C_v 2nd reduction
50 / 2"	42	31	22
80 / 3"	78	59	40
100 / 4"	149	114	78
150 / 6"	334	253	172
200 / 8"	628	478	331
250 / 10"	1022	764	515
300 / 12"	1464	1099	733
350 / 14"	1876	1430	962
400 / 16"	2476	1856	1253
450 / 18"	3151	2387	1620
500 / 20"	3829	2899	1973
600 / 24"	5753	4336	2959
700 / 28"	7976	6005	4096
750 / 30"	9641	6572	4369
800 / 32"	10905	7417	4947
900 / 36"	13108	10196	6139

Q2- Plate is available with three different capacity options



General data

Connections	Wafer style body. Can be mounted between flanges.
Flow direction	Flow and noise calculations valid for flow direction indicated by arrow.
Materials	Stainless steel
Pressure/temperature rating	ASME 150, 300, 600 PN 10 ... 100

Subject to change without prior notice.

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