



V520-55-C500

Diffuser

Valcor Nuclear

DESCRIPTION

The V520-55-C500 Diffusing Orifice is the socket weld version of Valcor's family of high-pressure-drop diffusers. It can be used individually or as a multi-stage orifice system of two or more units placed in series to eliminate the damage that is caused by control valve cavitation.

APPLICATION

- These diffusers can be used for any flow-restriction orifice service.
- To protect a steam trap and its downstream piping from early failure caused by flashing
- To protect a desuperheater spray valve and its downstream piping from any early failure caused by cavitation
- To reduce the noise from a steam vent or safety valve



FEATURES

- Machined from forged, stainless steel
- Multiple-hole, straight couplings are sufficiently strong to withstand the fluid's maximum working pressure
- The quantity and size of the holes are calculated for optimum performance and strategically placed to obtain maximum noise reduction and energy dissipation

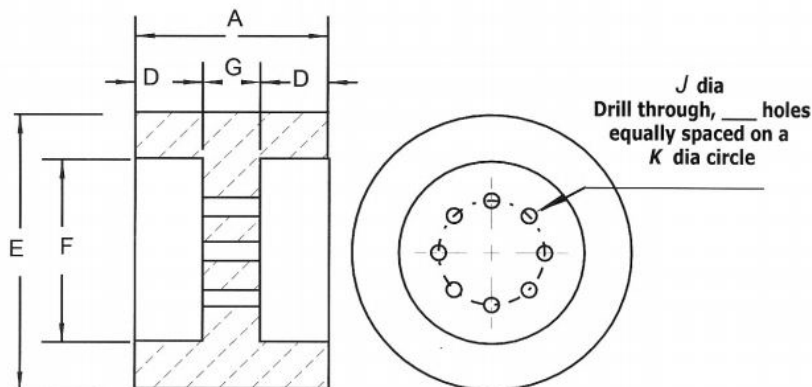
SPECIFICATIONS

- Material: ASME-SA479, Type 316 Stainless Steel
- Sizes: 3/4" to 4"
- Pressure rating: ANSI Class 6000

Model C500 Dimensions			
Size	A	E	F
1	1.75	2.25	1.330
1-1/2	2	3	1.915
2	2.5	3.625	2.406
4	3	6.25	4.545

[View the Steam Sizing Graph](#)

For sizes larger than 4" or for plate-type diffusers see the model **C600** Diffusers



J dia
Drill through, ___ holes
equally spaced on a
K dia circle

SPECIFICATIONS
Socket Weld
ASME-SA-479, Type 316 SS
Rating ANSI Class 6000

For more information contact:

Valcor Engineering Corporation
2 Lawrence Road | Springfield, NJ 07081
(973) 467-8400 | nuclear@valcor.com | www.valcor.com