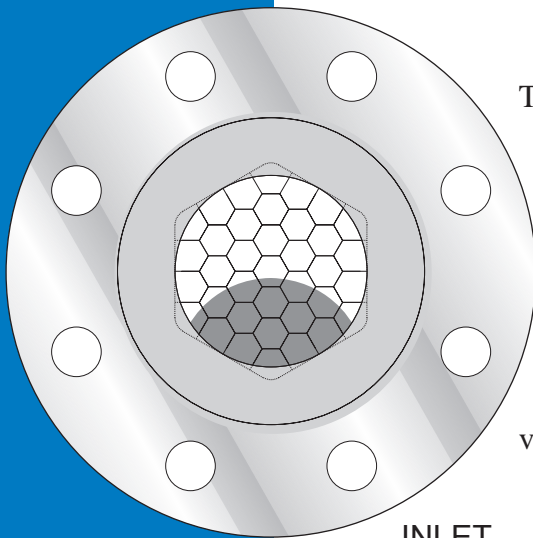
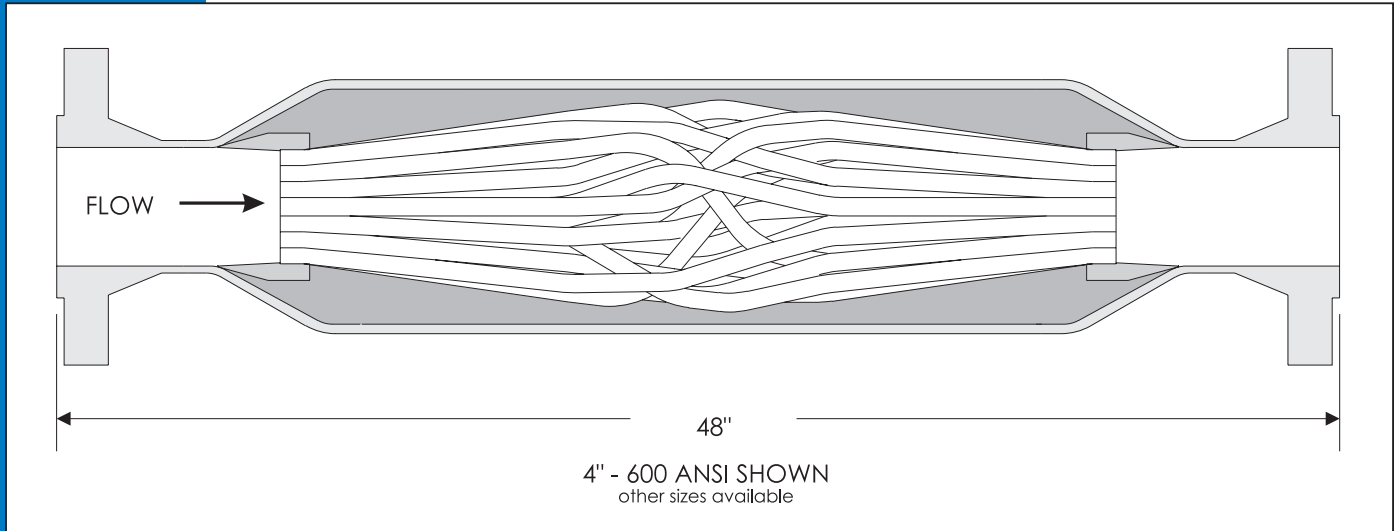


WELKER[®]
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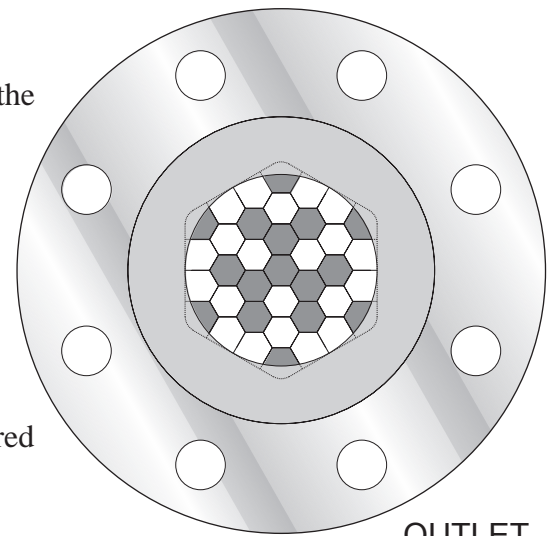
Welker Coherent Diffuser

for Noise and Turbulence Reduction



INLET

The dark hexagons shown on the left indicate how the flow from a bottom opening ball valve would project a hard plume of gas into the diffuser. The drawing on the right shows how the plume is divided so that velocity energy can be recovered in the form of pressure.



OUTLET

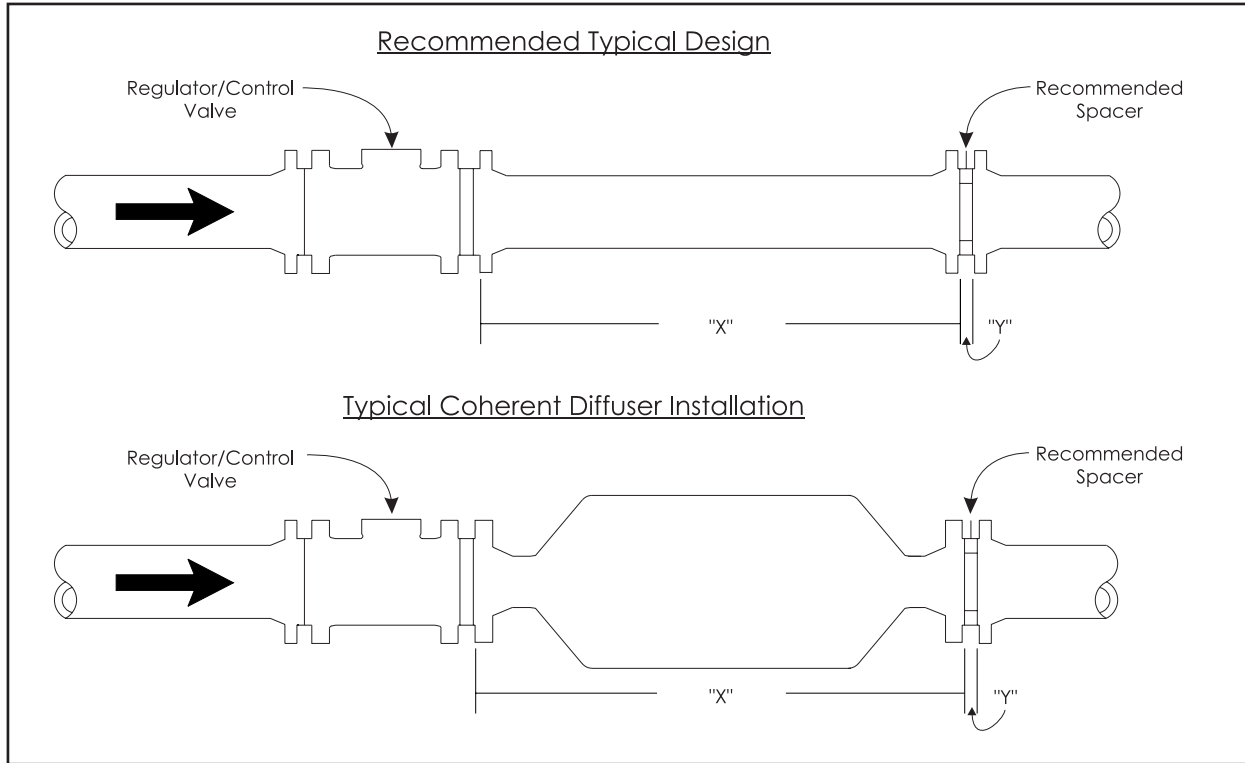
The Welker Coherent Diffuser accepts a high velocity stream of fluid (usually gas) and redistributes it evenly at the discharge end without creating pressure drop associated with turbulence and impingement.

Welker... When Excellence Counts!

Welker Coherent Diffuser

Plan for the Future

Welker offers the dimensions below, for design engineering as well as current requirements. Welker recommends a standard spool for the “X” dimension to be a part of the piping design, while still on the drawing board. If and when noise and turbulence become an issue, the coherent diffuser can be easily installed by removing the spool, rather than having to cut and re-weld the piping.

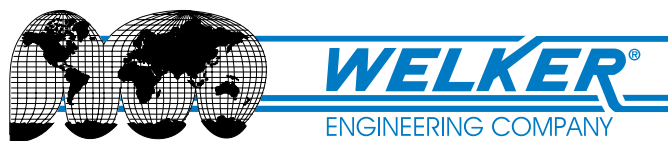


Model	Pipe and Valve Size	“X”	“Y”	Approx. Weight
WCD-2	2”	36”	1/2”	90#
WCD-4	4”	48”	1/2”	265#
WCD-6	6”	72”	1/2”	625#
WCD -8	8”	96”	1/2”	1045#

* When ordering, specify control valve sizes, type, and brand.

Specifications

- **Flanges** - ANSI 16.5
- **Pipe** - A 106 Gr B
- **Fittings** - ASME B 31.1
- **Internal Diffuser Channels** - SS
- **Seals** - none
- **Replacement Parts** - none
- Other spool materials available upon request



P.O. Box 138 • Sugar Land, TX 77487-0138
 Phone: 281-491-2331 • Domestic Fax: 281-491-8344 • International Fax: 281-242-5623
 Email: prosamp@welkereng.com • Web Site: www.welkereng.com

1-800-PRO-SAMP