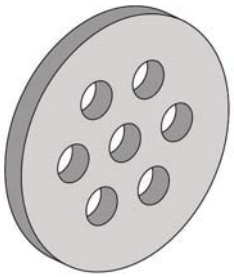
Noise Reduction

Noise Attenuation Equipment is used to reduce unwanted or excessive noise that commonly occurs in pressure reducing stations.

Noise Reduction Capability: **5-10 dBA**



Series-A
Orifice Plate

Description

Selection: Series A orifice plates are custom engineered to maximize noise attenuation and reduce dbA to the lowest achievable value. The number and diameter of holes will be determined based on application conditions, and the plate diameter will typically be equal to the recommended downstream pipe size. Therefore, the following information is required for selection:

- Inlet (Supply) Pressure to the HD/HSP Regulator
- Outlet (Downstream) Pressure of the HD/HSP Regulator
- Steam Flow Rate (lb/hr)

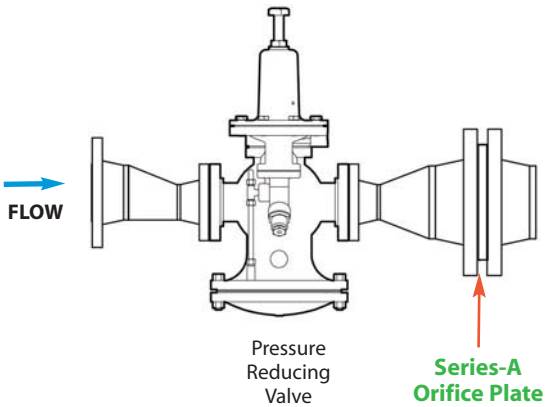
How it Works

The **Series-A** Orifice Plate with its drilled orifice pattern is installed after the pressure regulating valve to smooth out turbulence caused by the pressure drop across the regulator. Noise reduction levels of **5-10 dBA** can typically be achieved.

Installation

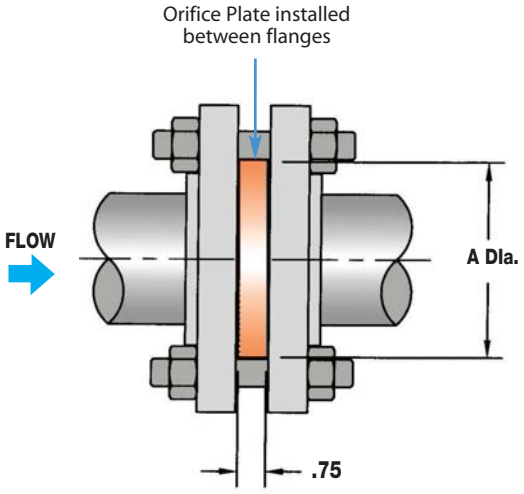
The Series-A Orifice Plate is installed between ANSI flanges immediately after the regulator. If the regulator is a flanged unit, the orifice plate is placed at the flange outlet connection.

Series-A Typical Hook-up



Full Model Code	Size	Pressure PSI
WSA-12-250	1/2″	5-250
WSA-13-250	3/4″	5-250
WSA-14-250	1″	5-250
WSA-15-7	1 1/4″	5-7
WSA-15-250	1 1/4″	10-250
WSA-16-250	1 1/2″	5-250
WSA-17-20	2″	5-20
WSA-17-250	2″	25-250
WSA-18-5	2 1/2″	5
WSA-18-40	2 1/2″	7-40
WSA-18-250	2 1/2″	50-250
WSA-19-5	3″	5
WSA-19-30	3″	7-30
WSA-19-250	3″	40-250
WSA-20-5	4″	5
WSA-20-30	4″	7-30
WSA-20-250	4″	40-250
WSA-22-5	6″	5
WSA-22-10	6″	7-10
WSA-22-250	6″	12-250

Notes: 1) 300# Flange plates available. Consult Factory. (WSB)
2) Must specify Inlet Pressure to the regulating valve when ordering



Series-A DIMENSION (A) – *inches*

Pipe Size	125# Flange	250# Flange
2″	6	4 3/16
2 1/2″	7	4 15/16
3″	7 1/2	5 11/16
4″	9	6 15/16
6″	11	9 11/16

Note: Other sizes available. Consult factory.