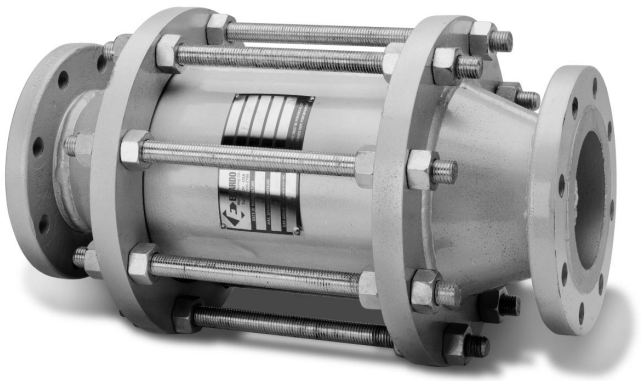
Series 8 High Pressure Deflagration Flame Arrestor

Enardo's High pressure Deflagration Flame Arrestor is designed to protect against high velocity and pressure flame fronts inherent in applications beyond the performance range of a standard flame arrestor but not yet to the detonation phase of flame development and provide an economical alternative to a detonation arrestor. The Series 8 is designed to surpass standard flame arrestors for applications that include extended lengths of pipe with one bend, elevated operating pressures and extended flame stabilization on the flame cell element. The arrestors are bi-directional and can stop low, medium and high pressure deflagrations. Enardo utilizes a patented (US Patent No. 5415233) element assembly that dampens the high velocities and pressures associated with deflagrations and detonations while quenching the flame front.

Our design is unique in the ability to provide larger flame channels which requires less frequent maintenance and greater ease in cleaning when service is required, translating to less down time. Our patented element offers maximum flow to pressure drop characteristics enhancing the value of our product in any system.



Designed with flanged connections, this Arrestor provides the option of the removal of the flame cell element for easy cleaning and replacement without disconnecting of the pipe connection. Standard housing construction is carbon steel and stainless steel. The element is available in stainless steel. Special material and protective coatings are available on request.

Features and Benefits

Enardo's large crimp opening provide:
- Maximum flow
- Less pressure Drop
- Easy Cleaning
- Less Clogging
- Less Maintenance

- Bi-Directional Design.
- Removable Element design allows for easy inspection, cleaning and replacement.
- Fluoropolymer coated hardware provides outstanding corrosion and chemical resistance.
- Standard temperature ports.
- Available in ANSI, DIN and JIS flanges.

Flame Arrestor Specifications

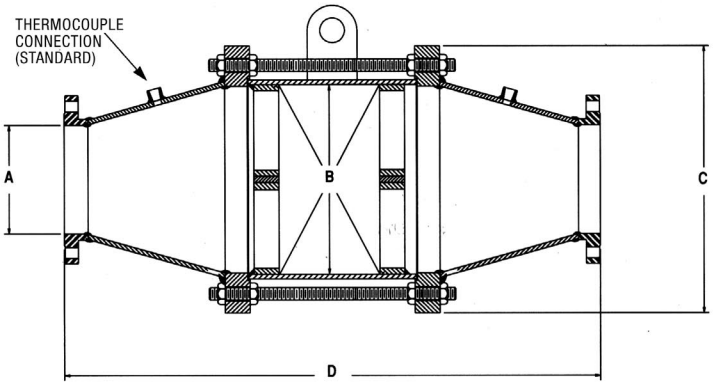
Model	Sizes Available
Series 8 High Pressure Deflagration Flame Arrestor	1" (25 mm) through 36" (900 mm)

Materials of Construction

Housing	Cell	Gas Group
Carbon Steel 304 SS 316 SS Hastelloy	304 SS 316 SS Hastelloy	IIA (D) IIB3 (C) IIC (B

ENARDO
Flame
Arrestors

Series 8 High Pressure Deflagration Flame Arrestor



Series 8 Dimensions and Weights

Model	A Connection Size In. (mm)	B Housing Size In. (mm)	C Outside Diameter In. (mm)	D Overall Length		Approx. Weight Gas Group D Lb. (Kg)
				Gas Group B/C In. (mm)	Gas Group D In. (mm)	
80802	2 (50)	8 (200)	12.00 (305)	22.50 (572)	20.50 (521)	123 (55.8)
80803	3 (75)	8 (200)	12.00 (305)	22.50 (572)	20.50 (521)	125 (56.7)
80804	4 (100)	8 (200)	12.00 (305)	22.50 (572)	20.50 (521)	130 (59.0)
81206	6 (150)	12 (300)	17.00 (432)	29.00 (737)		335 (152.0)
81608	8 (200)	16 (400)	21.50 (546)	43.00 (1092)		645 (292.6)
82010	10 (250)	20 (500)	26.00 (660)	46.00 (1168)		960 (435.4)
82412	12 (300)	24 (600)	30.00 (762)	49.00 (1245)		1210 (548.8)

Dimensions may vary somewhat from those given above. Allow for a tolerance of ± 1.00" (25 mm). Specific dimensions available on request.

Key to Enardo Series 8 Deflagration Arrestor Model Number

8 □□ □□ / □ — □ □ □□□

8	Housing Size	Connection Size	NEC Gas Group	Housing Material	Cell Material	Connection Type	Options
High Pressure Deflagration Series 8 E8 If Eccentric	04 = 4" through 48 = 48"	01 = 1" through 24 = 24"	B. Group "B" (IIC) C. Group "C" (IIB3) D. Group "D" (IIA)	C. Carbon Steel 4. 304 S.S. 6. 316 S.S. H. Hastelloy E. Exotic Material	4. 304 S.S. 6. 316 S.S. H. Hastelloy E. Exotic Material	F. Flat Faced Flange R. Raised Face Flange	1. Drain Plugs 2. Temperature Probe Taps 3. Pressure Taps 4. Misc. Fittings 5. Protective Coatings 6. Special Features

Example:

8 1 2 0 6 / D — C 4 R — 1 2 □

Indicates a 6" Concentric Series 8 High Pressure Deflagration Flame Arrestor with a 12" carbon steel housing, ANSI 150 lb. raised face flange connections and 304 stainless steel NEC Group "D" flame cell element. It also has additional options of drain plugs and temperature probe taps.