

Hydrocore™ Energy Dissipator



HYDROCORE

LIMITED

*The smart
solutions for your
business*

HISTORY

The Hydrocore™ energy dissipator was designed and developed in collaboration with members of various universities in South Africa in the late 1990's. These studies, which determined the tolerable perimeters of the valve, were done in accordance with several standards that are mentioned below.

SCOPE OF APPLICATIONS

The Hydrocore™ energy dissipator is a tailor-made device, used in open end applications and designed to reduce the upstream pressure 'Pu' (max up to 250 bar) to a set pressure 'Pd' (max up to 100 bar) at a designed flow rate.

DESIGN STANDARDS

The design of the Hydrocore™ energy dissipator complies with various international standards, of which the most prominent ones are:

- ASME Boilers & Pressure Vessels Design Code
- ANSI B16.5
- ANSI B16.10
- ANSI B16.34
- ANSI B16.37

LENGTH

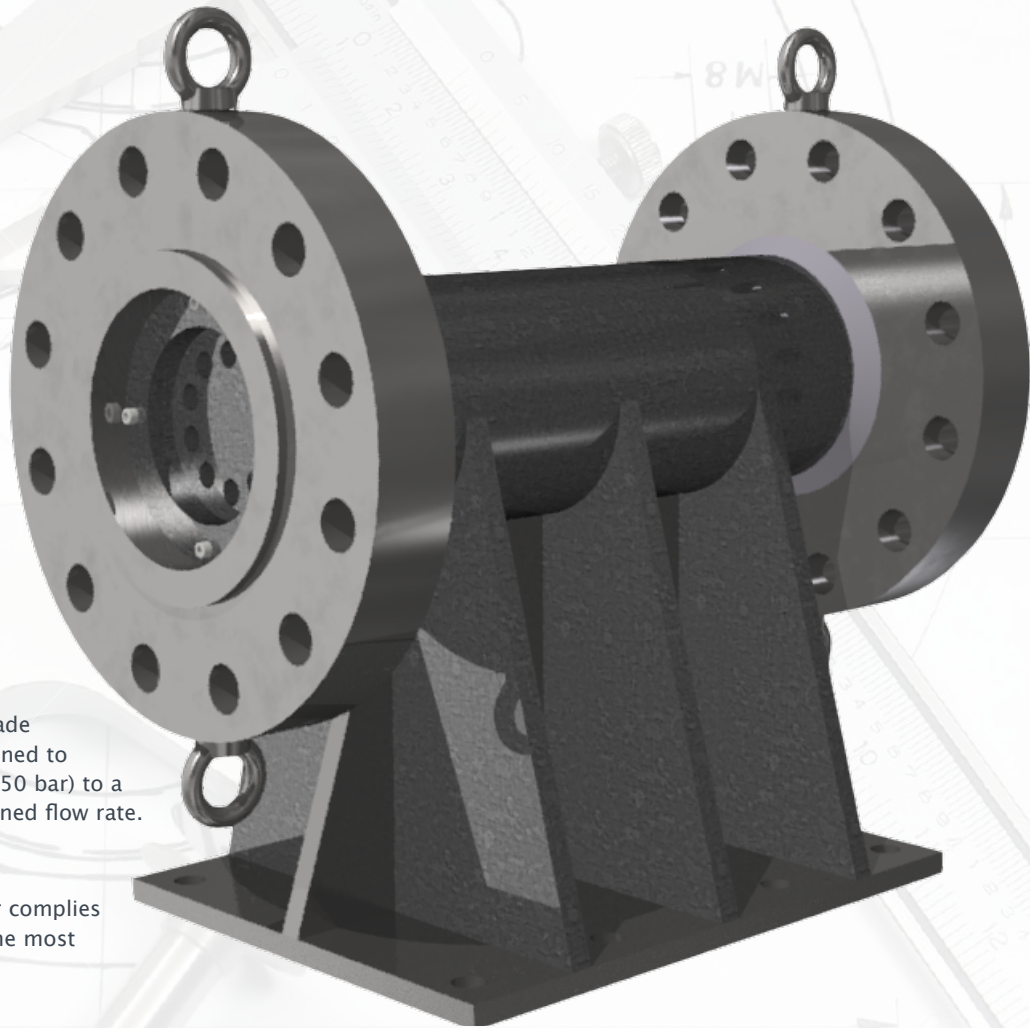
The length of the energy dissipator is determined by the required pressure drop 'Pu - Pd', which determines the number of pressure reduction stages.

END CONNECTORS

Flanges: ANSI B16.5, BS4504, BS10, SABS 1123
Couplings: U-Cone, Victaulic

MATERIAL OF CONSTRUCTION

Body: EN-8 or equivalent
Flanges: Steel
Coating: 50μ epoxy on 30μ base zinc
Stages: 431SS hardened
Spacers: Steel



DATA SHEET

NB	Flow (L/s)	NB	Flow (L/s)
12	1 - 2	150	106 - 212
25	3 - 6	200	188 - 376
38	7 - 14	250	294 - 588
50	12 - 24	300	424 - 848
80	30 - 60	350	577 - 1154
100	47 - 94	400	754 - 1508