DATA SHEET

SALT WATER APPLICATIONS
TYPE SD-RO

DESCRIPTION

The Fike SD-RO series bursting discs have been developed to offer easy and reliable pressure relief for salt water applications such as reverse osmosis processes.

These bursting discs are tension-loaded, forward-acting scored bursting discs, using a tension failure of the disc which is mechanically weakened by a scoring technique.

The SD-RO bursting discs are designed to be installed directly between standard welding-neck type companion flanges without the need for specific holders. Due to the minimum height of the product the need for changes to existing piping configuration is eliminated, offering a drop-in solution for existing equipment.

APPROVALS:

- CE

FEATURES AND BENEFITS

- Fail-safe design
- High operating ratio
- Non-fragmenting opening
- Liquid and vapor services
- Excellent corrosion resistance
- Drop-in replacement for existing equipment

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SPECIFICATIONS

Type	SD-RO
Action	Forward-Acting Scored
Sizes [1]	1.5“ – 2” – 3” – 4” – 6” / DN40 – DN50 – DN80 – DN100 – DN150
Disc Material	Inconel® 625
Process Gasket	AFM 34 [2]
Max. Operating Temperature Gasket	200°C
Protective Coating	No
Ratio of Operating Pressure to Minimum Burst Pressure	95%
Flange Rating	ANSI 150 – 300 / PN10 – 40
Cycling / Pulsating Duty	R
Vapour Service	R
Liquid Service	R
Non-Fragmenting	R
Seat Configuration	Flat
Use between Standard Flanges	Yes

R = RECOMMENDED

(1) Consult Fike for other sizes.
(2) Other gasket material on demand – contact factory.

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BURST PRESSURES IN BARG AT 22°C [1]

Size	ANSI	1.5”	2”	3”	4”	6”
	DN (mm)	40	50	80	100	150
Min./Max. burst pressure[2]	MIN (barg)	10	9	8	8	6
	MAX (barg)	20	20	20	20	20

(1) For higher or lower burst pressures: contact Fike for additional information.
(2) Consult factory for minimum burst pressure to withstand full vacuum.

PERFORMANCE TOLERANCES [1]

Performance Tolerance at 22°C	Standard ± 10%

(1) Consult Fike for possibility to reduce tolerances.

Performance tolerance as specified by ISO/EN is a total tolerance which includes both manufacturing and bursting tolerance.

As per ISO/EN the bursting discs can be marked with:

- Specified burst pressure with a performance tolerance (in % or a value)
  E.g.: 10 barg at 22°C ± 10% (± 1 barg).
- Maximum and minimum burst pressure.
  E.g.: Max 11 barg at 22°C - min 9 barg at 22°C

On request bursting discs can be marked as per ASME code section VIII with the average burst test result and the bursting tolerance of ± 5% for burst pressures ≥ 2.76 barg. (0.15 barg for burst pressures < 2.76 barg).

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