

## Saunders<sup>®</sup> Diaphragm 214S/EE TFM/EPDM

[www.cranecpe.com](http://www.cranecpe.com)

### Key features include:

- 1 Modified PTFE face, EPDM backing
- 2 Suitable for bioprocess applications
- 3 Full industry conformance

Saunders<sup>®</sup> 214S/EE grade diaphragm features two piece leaf type construction. The diaphragm consists of a wetted modified PTFE face (TFM™) with a non-wetted fabric reinforced EPDM backing cushion.

The 214S/EE grade diaphragm is suitable for typical applications in the bioprocess industries such as Compendium Waters, buffers, CIP and SIP, protein solutions and other products. The 214S/EE diaphragm is especially recommended for applications subjected to intermittent steam service.

This diaphragm is FDA compliant to 21CFR part 177, has been third party tested to USP Class VI <87>, <88>, complies with ASME BPE part SG, is certified ADCF (Animal Derived Component Free) and is fully lot traceable to EN 10204 3.1.

Both the PTFE face and the EPDM backing have been developed and manufactured entirely in-house by Saunders<sup>®</sup>.

**Use only Genuine Saunders<sup>®</sup> Replacement parts to ensure optimum performance, reliability and regulatory conformance.**



The Saunders<sup>®</sup> 214S/EE diaphragm features the Saunders<sup>®</sup> bayonet type compressor attachment which allows the diaphragm to float freely relative to compressor to avoid point loading of the PTFE at the stud. The bayonet fit also facilitates easy error free engagement of diaphragm and compressor.



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**CRANE**<sup>®</sup>

Crane ChemPharma & Energy

# Saunders<sup>®</sup> 214S/EE Grade Diaphragm

## Construction

- 214S grade Modified PTFE wetted face
  - Increased level of crystalline structure versus conventional PTFE
  - Widest temperature range of any polymer
  - Inert to corrosive chemicals
  - Excellent anti-stick properties
- EE grade EPDM backing cushion
  - Organic peroxide cured
  - Excellent mechanical and thermal properties
  - Excellent resistance to compression set
  - Fabric reinforced to optimize flex

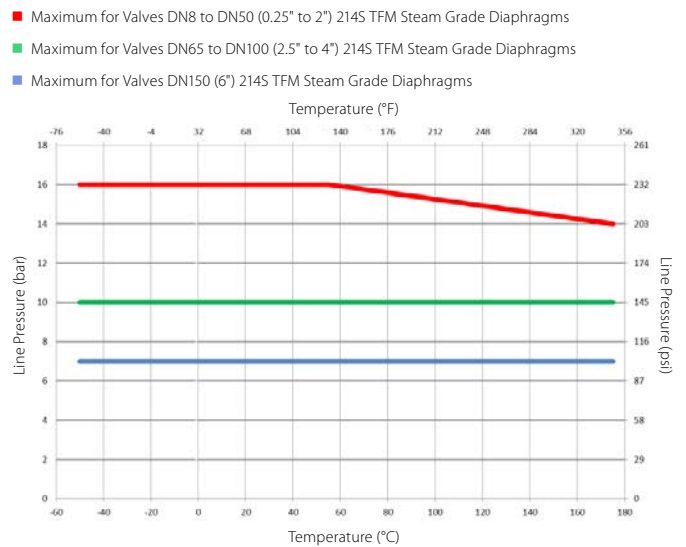
## Size Range

- DN8-150 (0.25" - 6")

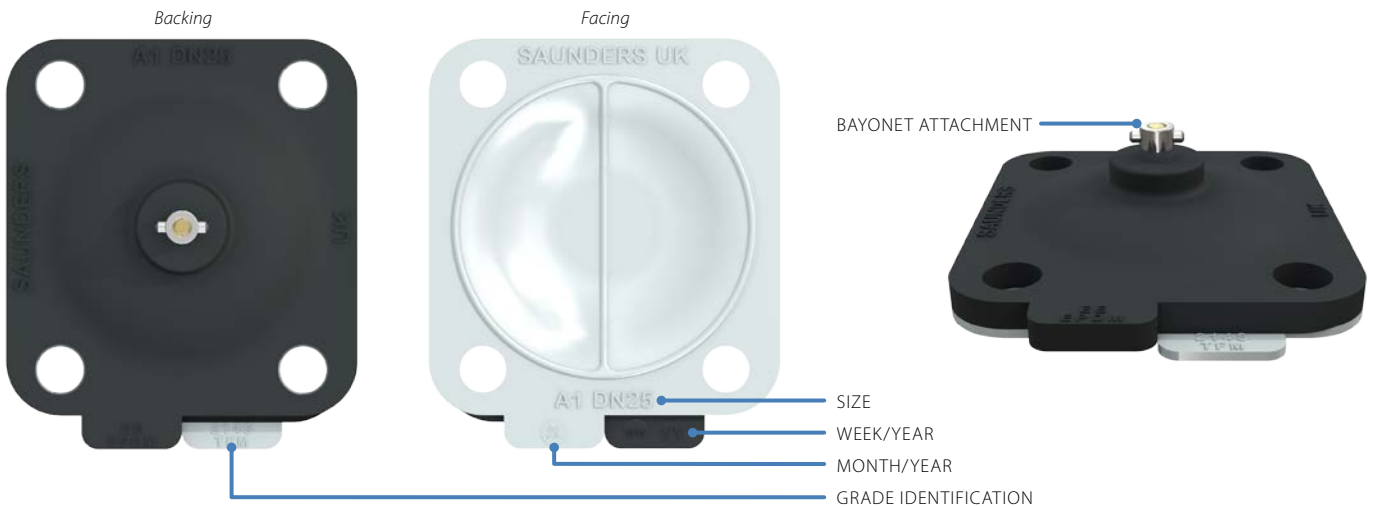
## Maximum Temperature

- Constant: 160° C
- Intermittent: 150° C

## Valve Body Temperature/Pressure Relationships



## Diaphragm Marking



Size	Grade	Catalogue Code	Connection Type
DN8 (0.25")	214S/EE	S8	Screw
DN15–DN150 (0.5" – 6")	214S/EE	S8	Bayonet

DN8 0.25" to DN50 2" Moulded Closed as standard (Moulded Open available on request DN15–50)

DN65 2.5" to DN150 6" Moulded Open

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## Crane ChemPharma & Energy, Saunders<sup>®</sup>

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