

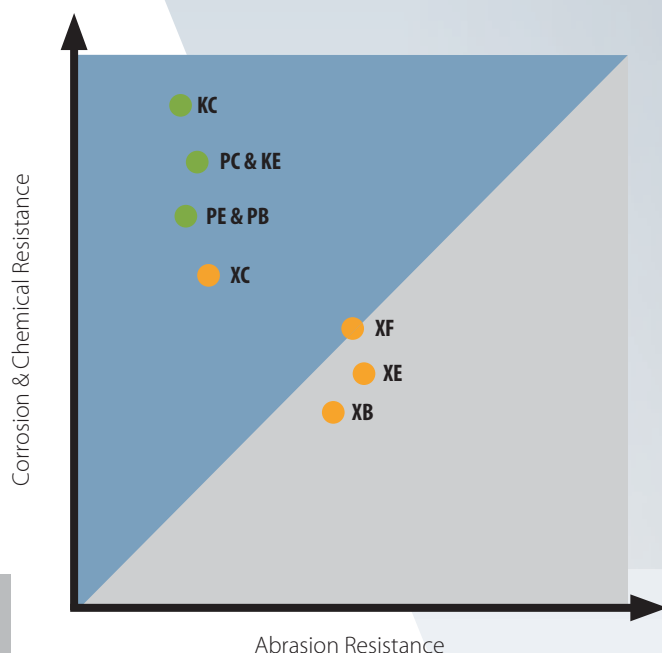
OVERVIEW AND PERFORMANCE

Saunders® eXtreme Elastomer Range

Code	ISO	Type	Sizes	Temperature	Typical Applications
XB	IIR	A & KB Type	DN8 - DN350	-40°C to 130°C	Titanium Dioxide Potable Water Brine
XE	EPDM	A & KB Type	DN8 - DN350	-40°C to 130°C	Phosphatic Fertilizers Water Treatment Potable Water
XC	FKM	A & KB Type	DN8 - DN350	-5°C to 150°C	High Temperature Acids Sulphuric Acid Hydrochloric Acid
XF	CSM	A Type	DN65	-10°C to 100°C	Fire mains isolation

Saunders® High Performance PTFE Range

Code	ISO	Type	Sizes	Temperature	Typical Applications
PB	PTFE/IIR	A Type	DN8 - DN250	-20°C to 150°C	Concentrated Hydrochloric Acid Caustic Soda
PE	PTFE/EPDM	A Type	DN8 - DN250	-20°C to 150°C	Nitric Acid Concentrated Acids and Alkalies
PC	PTFE/FKM	A Type	DN8 - DN250	-5°C to 175°C	Sulphuric Acid, Strong Acids at high Temperature
KE	PTFE/PVDF/EPDM	A Type	DN15 - DN100, DN150	-20°C to 100°C	Chlorinated Solvents Bromine Services
KC	PTFE/PVDF/FKM	A Type	DN15 - DN100, DN150	-20°C to 130°C	Aggressive Chlorine Services



SAUNDERS EXTREME ELASTOMER RANGE

The Saunders® diaphragm is an intricate design and not a simple moulded part. Layers of proprietary blended and calendared (rolled into sheet form) rubber is vulcanized with high strength woven reinforcement.

Key Features

- 1 Diaphragms constructed with multiple layers of rubber and fabric reinforcement for **optimised flex performance**, even in high-cycle applications.
- 2 Sealing ribs on the diaphragms wetted face provide **enhanced leak-tight sealing capabilities and lower closure torques**.
- 3 Proprietary formulations, solely manufactured in-house, deliver the necessary physical properties to provide **excellent abrasion and corrosion resistance**.

*Polymer expertise
since 1934*



XE GRADE DIAPHRAGM

Saunders® XE grade diaphragms are best used for both abrasive and corrosive applications such as phosphoric acid, metal treatment and mining applications, as well as salts in water, acids and alkalis, ozone, potable drinking water and intermittent steam.

Size	Grade	Catalogue Code
DN8-DN350	XE	XE



Customer Benefits

- Up to 40% improvement in compression set characteristic
- Reducing the need for re-torquing and ensuring seal to atmosphere
- 100% compatible with all existing installations of Saunders industrial product ranges
- A coding tag for traceability of both materials and manufacturing data

Construction

- Ethylene propylene diene (EPDM)
- Organic peroxide cured
- Carbon black reinforced
- Fabric reinforced to optimize flex

Size Range

- DN008 – DN350 / 0.25" – 14"

Compliance and Traceability

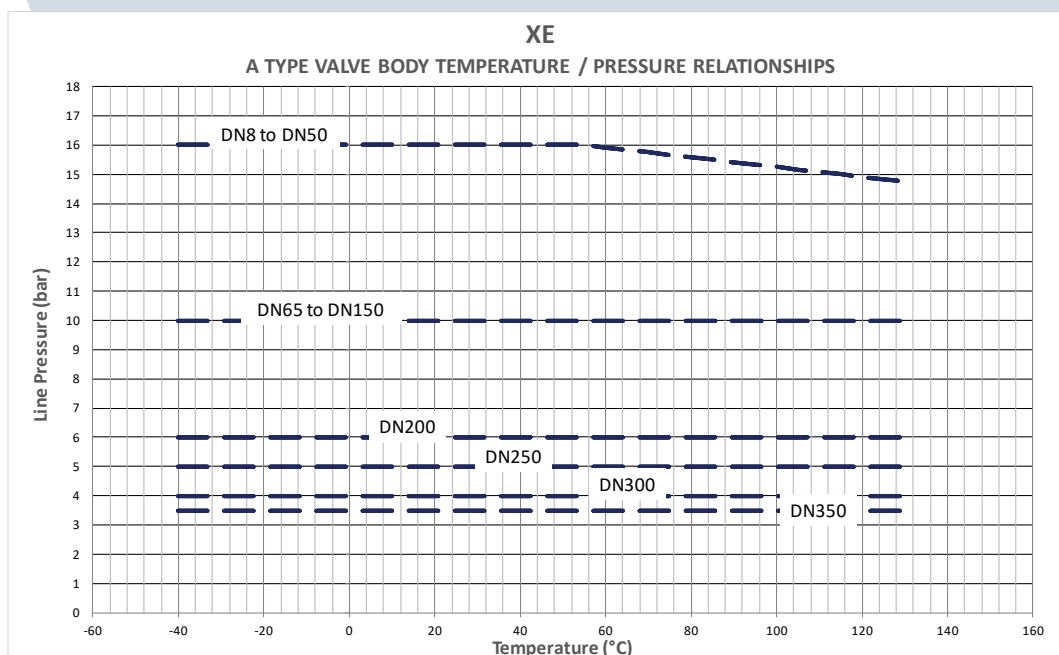
- Fully lot traceable to BS EN 10204 3.1b (On request)

Temperature Range

- Type A: -40°C to 130°C / -40°F to 266°F
- Type KB: -40°C to 100°C / -40°F to 212°F

Typical Applications

- Chlor Alkali, Demineralisers, Filtrations, HVAC, Waste Streams



XB GRADE DIAPHRAGM

Saunders® XB offers the best-in-class solution in water applications due to its low moisture permeability, as well as excellent resistance to heat, aging and weathering. It also offers great performance for diluted acids and alkalis, and additional abrasive applications like phosphoric acid in low concentrations.

Size	Grade	Catalogue Code
DN8-DN350	XB	XB



Customer Benefits

- Highest tensile strength properties of all elastomer grade diaphragms
- Provides strength in the toughest of applications
- 100% compatible with all existing installations of Saunders industrial product ranges
- A coding tag for traceability of both materials and manufacturing data

Construction

- Isobutylene Isoprene (IIR)
- Resin cured
- Carbon black reinforced
- Fabric reinforced to optimize flex

Size Range

- DN008 – DN350 / 0.25" - 14"

Compliance and Traceability

- Fully lot traceable to BS EN 10204 3.1b (On request)
- WRAS approved

Temperature Range

- Type A: -40°C to 130°C / -40°F to 266°F
- Type KB: -40°C to 100°C / -40°F to 212°F

Typical Applications

- Demineralisers, Filtrations, HVAC, Potable Water, Utility Services

