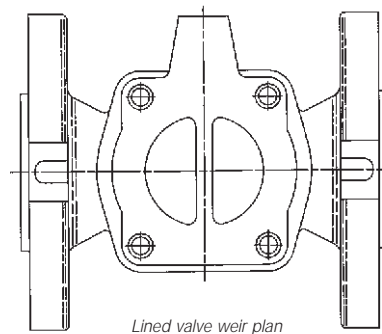
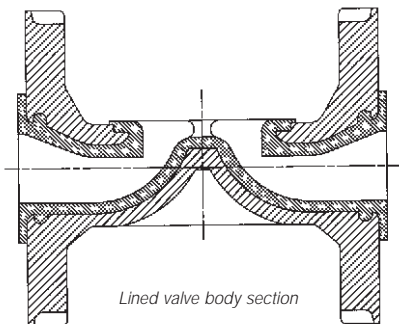


# Saunders A Type Diaphragm Valves

Materials of Construction – Valve Bodies

## Standard Unlined Body Material

<b>CAST IRON</b>			
BS EN 1561	GJL-250	Flanged	DN15–DN500
<b>SG IRON</b>			
BS EN 1563	GJS-450-10	Screwed	DN15–DN50
BS EN 1563	GJS-400-18	Flanged	DN15–DN150
	GJS-400-18-LT		
<b>CAST STEEL</b>			
	ASTM A216 WCB	Flanged	DN15–DN100
<b>BRONZE</b>			
BS EN 1982	CC491K-GS	Screwed	DN15–DN50
BS EN 1982	CC492K-GS	Flanged	DN15–DN100
<b>STAINLESS STEEL</b>			
BS 3100	316C16	Screwed	DN15–DN50
BS 3100	316C16	Flanged	DN15–DN150



## Plastic lined body features

- ◆ SG iron body – high mechanical strength
- ◆ SG iron body – mechanically supports plastic lining
- ◆ Lining protected from ultraviolet (UV)
- ◆ Injection gate to side of weir flange means:-
  - Smooth weir for diaphragm sealing and zero leakage
  - Lining lock-on weir flange and in-bore inlet
  - Lining thickness range 3 – 5mm (DN20–DN150)

## Rubber lined body data

- ◆ Soft rubber linings
  - Butyl (Isobutylene isoprene), 60–66° IRHD
- ◆ Hard ebonite rubber HRL, 75–85° Shore D
- ◆ Lining thickness range 2–4.5mm (DN20–DN350)

## Valve body lining – production tests

All Saunders lined valves have each body individually tested for lining integrity.

- ◆ Glass lining – Spark test 10kV ac
- ◆ Rubber, Butyl – Spark test 14kV ac/dc
- ◆ Rubber, HRL – Spark test 17kV ac/dc
- ◆ Plastic lined – Spark test 20kV ac/dc



A Type valve body PFA lined

A Type valve body hard rubber lined



A Type valve body ETFE lined