

Saunders KB Type Diaphragm Valves

Materials of Construction

Valve bodies

CAST IRON, GUNMETAL
Screwed DN15 - DN50
CAST IRON, GUNMETAL
Flanged DN15 - DN350*

Rubber lined body data

- Soft rubber linings
- Natural (Polyisoprene), 40–46° IRHD
- Polychloroprene, 72–78° IRHD
- 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

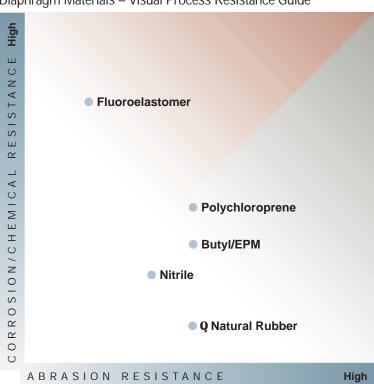
All Saunders lined valves have each body individually tested for lining integrity.

- Glass lining Spark test 10kV ac
- Rubber, Butyl,
 Polychloroprene,
 Natural –
 Spark test 14kV ac/dc
- Rubber, HRL –
 Spark test 17kV ac/dc

Material	Grade					
Fluoroelastomer	226					
Polychloroprene	HT					
Nitrile	С					
Butyl	300					
EPM	425					
Natural Rubber	AA					

Diaphragm Materials										
	Elastomer Type	General Service & Approvals								
AA	Natural rubber (polyisoprene) metal oxide pigmented – brown sulphur cured, black reinforced	Abrasives in slurry or dry powder form								
С	Butadiene Acrylonitrile, (Nitrile) sulphur cured, black reinforced	Lubricating oil, cutting oils, paraffin, animal and vegetable oils, aviation kerosene								
НТ	Polychloroprene, sulphur cured, black reinforced	Abrasives slurries containing hydrocarbons								
226	Fluoroelastomer, amine cured, black reinforced	Concentrated acids, aromatic solvents, chlorinated solvents, unleaded petroleum								
300	Isobutylene Isoprene, resin cured black reinforced	Abrasive slurries, acid digested slurries, alkalis, dry powders								
425	Ethylene propylene (EPM) organic peroxide cured, black reinforced	Abrasive slurries, acid digested slurries, alkalis, dry powders								

Diaphragm Materials - Visual Process Resistance Guide



Size DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
Non-rising handwheel												3.5	3.5	3.5	1.5
Rising Handwheel	10	10	10	10	10	10	10	10	10	6	6				

Maximum working pressure for KB valves shown is for manual valves, defined as the maximum line pressure against which valves may be operated to closed position up to and including 55°C. For ES actuators, please refer to appropriate actuator performance selection technical data sheets.

^{*} Contact us for materials range