

Saunders A Type Diaphragm Valves

Diaphragm Materials of Construction

Grade	Elastomer type	General service and approvals
C	Butadiene Acrylonitrile, sulphur cured, black reinforced	Lubricating oil, cutting oils, paraffin, animal and vegetable oils, aviation kerosene
CV	Butadiene Acrylonitrile, sulphur cured, black reinforced	Vacuum where oils are present, compressed air, liquid petroleum gas (LPG)
HT	Polychloroprene, sulphur cured, black reinforced	Abrasive slurries containing hydrocarbons
Q	Natural rubber polyisoprene/SBR, sulphur cured, black reinforced	Salts in water, dilute acids and alkalis, abrasives
226	Fluoroelastomer, amine cured, black reinforced	Concentrated acids, aromatic solvents, chlorine, ozone, chlorinated solvents, unleaded petroleum
237	Chlorosulphonated polyethylene metal oxide cured, black reinforced	Strong acids, sodium hypochlorite, chlorine gas
286	Chlorosulphonated polyethylene metal oxide cured, black reinforced Kevlar fabric reinforced	Fire mains isolation in WFB valve
300	Isobutylene Isoprene, resin cured black reinforced	Salts in water, dilute acids and alkalis, drinking water, Food & Drug Administration (FDA), United States Pharmacopeia (USP), Water Regulations Advisory Scheme (WRAS)
425	Ethylene propylene (EPM) organic peroxide cured, black reinforced	Salts in water, acids and alkalis, ozone, intermittent steam, drinking water, FDA, USP, WRAS
425V	Ethylene propylene (EPM) organic peroxide cured, black reinforced	Vacuum where acid, alkali, water vapours are present, FDA, USP, WRAS
214/226	Virgin PTFE/Fluoroelastomer – two piece	Strong acids, solvents, chlorine, bromine at higher temperatures
214/300	Virgin PTFE/Isobutylene isoprene – two piece	Strong acids, alkalis and salts in water at high temperature. Constant steam, water for injection (WFI), biopharmaceuticals, FDA USP, WRAS
214/425	Virgin PTFE/Ethylene propylene – two piece	Strong acids, alkalis and salts in water at high temperature. Constant steam, water for injection (WFI), biopharmaceuticals, FDA, USP, WRAS
214S/425	Virgin PTFE/PPVE/Ethylene propylene – two piece	Strong acids, alkalis and salts in water at high temperature. Constant and intermittent steam, WFI, biopharmaceuticals, FDA, USP, WRAS
214K/425	Virgin PTFE/PVDF/Ethylene propylene – three piece	Chlorine, bromine gas and chlorinated solvents

Standard

- ◆ Rubber diaphragms have a brass stud
- ◆ Diaphragms suitable for vacuum duties (eg. CV) have steel stud
- ◆ PTFE diaphragms are fitted with stainless steel bayonet

Saunders Diaphragms are provided with:–

- ◆ Full traceability of manufacture to EN10204 3.1b (was DIN 50049 3.1b)
- ◆ Coding tag for both material and batch number for easy identification
- ◆ Saunders name to confirm genuine manufacture and maximum reliability

