



KIM Design Diaphragm Valves

Hakohav valves is a valves specialist manufacturing company (since 1963) with unique and high quality products.

KIM Diaphragm valves are worldwide known (since 1956)) for their benefits in corrosion and abrasion resistance, offering features of leak tightness and low cost maintenance in severe service applications.

PN 2 1/2 - PN 16
1/2"-14" (15mm - 350mm)

Advantages:

- The operating parts of the valve are isolated from the fluid preventing any possibility of corrosive contamination.
- The over-closure protection system avoids diaphragm tampering due to the apply of excessive force.
- No packing/gaskets used inside the valve's body, which eliminates leak path and deep corrosion.
- Inbuilt open/closed indicator system.
- Easy maintenance procedures allow cleaning and diaphragm changing without removing the valve from the line even if it is in open position.
- The vast variety of linings and coatings, together with many diaphragm combinations, makes the valve suitable to handle nearly any fluid under the most severe conditions.
- Suitable to operate in vacuum implementations.
- Suitable for most connection possibilities to the pipes (all flange drilling systems, screws and welding).
- Valve's shaft is made of stainless steel 304 as standard for best corrosion resistance.
- Designed for low operatng torques for saving energy.

Operation by:

- Handwheel, Pneumatic or Electric actuator



Glass lining



Halar coating



Weir type
Diaphragm
Valve with
actuator

LONG LIFE VALVES



Straight-Through Type
Diaphragm Valve



Weir Type
Diaphragm Valve





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Body Linings and coatings - selection & services

	CODE	MATERIAL NAME	TEMP C°	TYPICAL SERVICES
1	UL	Unlined (epoxy coated)	-20 to 80°	Good acid, natural salts & alkali resistance, suitable for food and water
2	SR	Soft Natural Rubber	-40 to 100°	General purpose, abrasives, water, diluted mineral acids
3	HR	Hard Natural Rubber	-40 to 100°	General purpose, good acid & alkali resistance
4	BR	Butyl Rubber	-30 to 120°	Good acid & alkali resistance including sulphuric acid
5	NR	Neoprene Rubber	-30 to 105°	Weak chemicals & greases
6	HY	Chlorosulfonated polyethylene - CSM hypalon rubber	-30 to 95°	Concentrated acids & alkali
7	EPDM	EPDM / Black	-40 to 140°	General Purpose, resistant to high temperatures, most corrosive chemicals and abrasive liquids.
8	ETFE	Ethylene tetrafluorethylene-tefze	-20 to 150°	High chemical resistance, abrasion resistant, suitable for food
9	PFA	Perfluoroalkoxy	-20 to 175°	High chemical resistance, high temperature stability, suitable for food
10	PVDF	Polyvinylidene flouride	-20 to 130°	Resistant to most inorganic acids & bases of moderate concentration, sodium hypo-chlorite service
11	PP	Polypropylenel	-30 to 85°	Mineral acids, salts in water, water and effluent treatment chemicals
12	GL	Glass	-10 to 175°	High chemical resistance , abrasion resistant, high temperature stability, suitable for food
13	ECTFE	Ethylene chlorotrifluoroethylene HALAR	-20 to 130°	High chemical resistance to mineral & oxidizing acids, alkali, salts & nearly all solvents, high corrosive acids
14	Nylon11	Rilsan	-20 to 80°	Potable water, sea water, water treatment chemicals

Note: These temperature data relate to water, for other material contact our office or local distributor.

Diaphragm - selection & services

	GRADE	MATERIAL NAME	TEMP C°	TYPICAL SERVICES
1	10	Natural Rubber	-40 to 100°	General purpose, abrasives, water, diluted minerals acids
2	11	Natural Rubber Composite	-40 to 100°	Abrasives, slurry and suspended solids
3	20	EPDM / Black	-40 to 140°	General Purpose, resistant to high temperatures, corrosive chemicals and abrasive liquids.
4	2F	EPDM / food grade	-30 to 120°	Food and pharmaceuticals
5	30	Butyl Rubber	-20 to 120°	Acids, alkalis, hot water, low pressure steam
6	40	Nitrile Rubber	-20 to 100°	Oils, fats and fuels
7	50	Neoprene	-30 to 105°	Air, weak chemicals, greases
8	60	Hypalon	-20 to 100°	Concentrated acids and alkalis, chlorine services
9	70	Viton FPM	-20 to 150°	Concentrated sulphuric and other acids, aromatic hydrocarbons, chlorine services
10	80	Silicone	-30 to 175°	Moderate or oxidizing chemicals, ozone, concentrated sodium hydroxide. Recommended for food.
11	93/20	PTFE/EPDM backed	-30 to 175°	Highest chemical and temperature resistance
12	93/30	PTFE/Butyl backed	-30 to 150°	
13	93/60	PTFE/Hypalon backed	-20 to 120°	
14	93/70	PTFE/Viton backed	-20 to 175°	

Unlined



Rubber lined



ETFE lined



PFA lined



PVDF/PP lined



Halar (ECTFE)



Glass



Nylon 11 (Rilsan)

