



**V.K. POWER SYSTEMS  
(OPC) PVT. LTD.**

MANUFACTURER OF  
SPECIALTY CHEMICALS  
& EXPERTS OF  
WATER TREATMENT



**WE HAVE INNOVATIVE SOLUTIONS  
FOR YOUR BUSINESS**

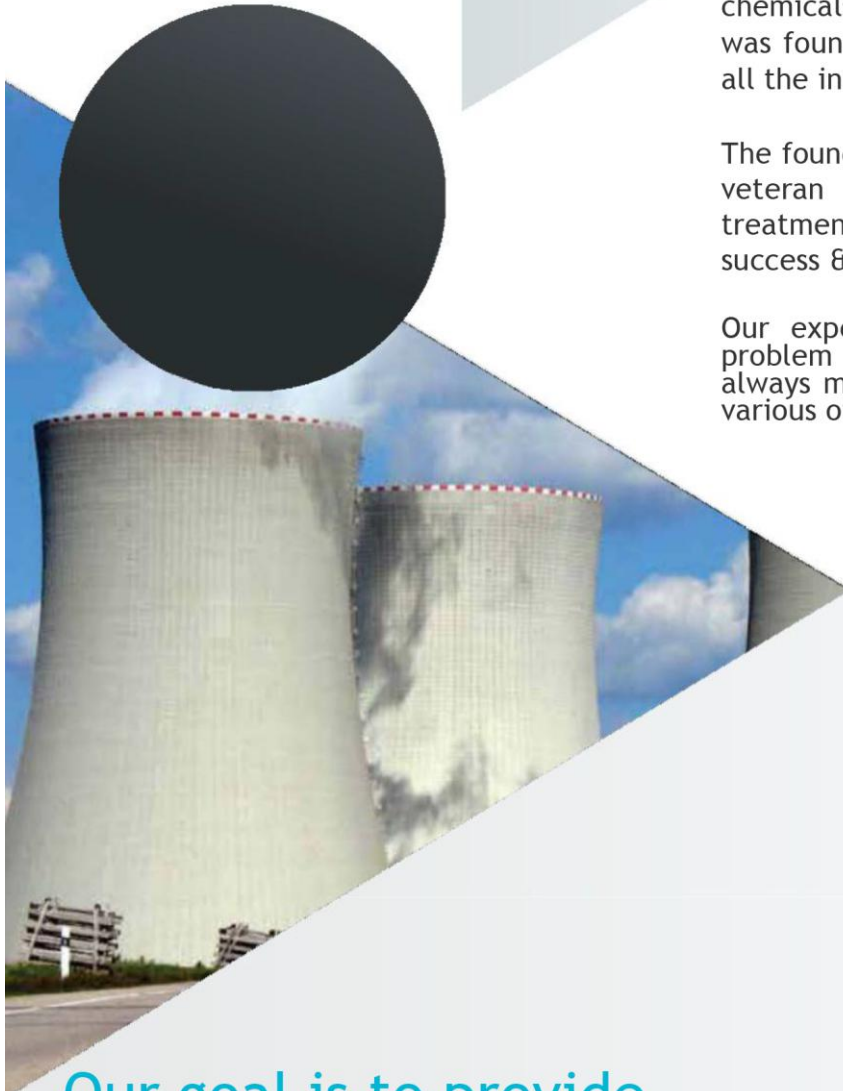


# Yours trusted partner!

We introduce ourselves as the manufacturer of specialty chemicals & experts of water treatment. Our company was founded in 2017. We have customers spread across all the industry segments.

The founder of the company has been a water treatment veteran and has worked in all leading global water treatment companies. Customers are the key to our success & we believe in having customers for life.

Our expertise lies in studying the water treatment problem & providing a cost effective solution which is always more economical than the solutions provided by various other multinationals.



## Our goal is to provide **Economy with Quality**

All our chemicals are manufactured at our manufacturing facility in Ratlam ( M.P.) & under go strict quality checks before being delivered to our customers.

The chemical market in India is flooded with many players who adulterate/dilute the chemicals & provide them to customers. We take pride in providing the chemicals in their absolute undiluted form & all our chemicals are of the highest possible concentrations.

At V K Power System, research & development is a continuous process with experimenting &

innovation at the centre stage.

We have a very strong network of sales & service people who are trained in providing the correct solution to the customer. We believe that providing regular service to clients is of utmost importance.

All our service personnel are trained so that they are updated with the latest technical skills. We would love to partner with you & provide you the best of our services.



## COOLING WATER TREATMENT CHEMICALS

We provide the best combinations of cooling water treatment programs. These are specially designed cooling water treatment programs that help protect your cooling systems from scaling, corrosion & microbiological growth.

- ▶ Automatic Dosing Systems
- ▶ Passivation Chemicals
- ▶ Hot Water Corrosion Inhibitors
- ▶ Bio Dispersants
- ▶ Yellow Metal Corrosion Inhibitors
- ▶ Mild Steel & Stainless Steel Corrosion Inhibitors
- ▶ Antiscalent & Mineral Dispersant
- ▶ Chilled Water & Close Loop Corrosion Inhibitors
- ▶ Non Oxidising Biocides
- ▶ Vacuum Pump Antiscalents



- ▶ Alkalinity Reducers
- ▶ Oxidising Biocides
- ▶ Multifunctional Products
- ▶ Cooling System Descaling Compounds

## BOILER WATER TREATMENT CHEMICALS

We provide the best combinations of boiler water treatment programs for both high & low pressure boilers. These are specially designed boiler water treatment programs that help protect your boilers from scaling & corrosion.

- ▶ Powder Boiler Antiscalents
- ▶ Powder Oxygen Scavengers
- ▶ Liquid Oxygen Scavengers
- ▶ Liquid Boiler Antiscalents
- ▶ pH Boosters
- ▶ Condensate Treatment Chemicals
- ▶ Boiler Descaling Chemicals
- ▶ Fire Side Chemicals *(for all fuel types)*



## REVERSE OSMOSIS(RO) TREATMENT SOLUTIONS

We offer various types of RO treatment products including RO cleaning chemicals, pH boosters & antiscalents. The chemicals are carefully selected after conducting a detailed plant survey. These RO treatment chemicals are specially formulated cost-effective chemicals that are used for keeping the membrane surface clean. The cleaning chemicals ensures effective operation of RO system.



▶ RO Membranes

▶ pH Boosters

▶ RO Antiscalents

▶ RO Cleaning Chemicals

▶ RO Biocides

▶ RO Pre-Treatment  
Chemicals

## WASTE WATER,ETP& STP TREATMENT SOLUTIONS

Our experts conduct Jar Tests at your site & determine best suitable coagulants & flocculants for the treatment of your ETP & STP. We help lower your total cost of operation by reducing the cost of sludge disposal.

▶ Specialty Coagulants

▶ Defoaming &  
Antifoaming Chemicals

▶ Polyelectrolytes

▶ Bio-Enzymes

▶ Anti-odour Chemicals

▶ Bacteria Culture

▶ Colour Removal  
Chemicals

▶ Sludge Dewatering  
Chemicals







# SUGAR INDUSTRY

V K Power System offers a range of speciality sugar chemicals. Our range includes organic and inorganic antiscalants, biocides and sugar juice clarifications.

## WE HELP YOU ACHIEVE YOUR GOALS

We, at V K Power System (OPC) Pvt. Ltd. manufacture and supply high grade industrial Sugar Process Chemicals that act as an ideal assistance in hygienic processing and polishing of sugar.

The extra ordinary purity & excellent properties of our sugar processing chemicals make them the ideal option available in the market. We offer wide array of sugar processing chemical to cater to different needs of our diverse clientele.

- ▶ Mill Sanitation Biocides
- ▶ Evaporator Anti-Scalents
- ▶ Scale Softeners
- ▶ Flocculants
- ▶ Viscosity Reducers
- ▶ Enzymes
- ▶ Colour Precipitants



# MANUFACTURING FACILITY



## Some of our Projects & Installations (WTP)

- ◆ Ultra Filtration Plant - 13000 LPH : Tertiary treatment of ETP (Devarpan Foods- Uttrakhand)
- ◆ Reverse Osmosis Plant -15000 LPH :Tertiary water into process (Devarpan Foods- Uttrakhand)
- ◆ Ultra Filtration Plant - 10000 LPH : Tertiary treatment of ETP Global Autotech- Gr. Noida)
- ◆ Reverse Osmosis Plant -36000 LPH : SIDCO J&K
- ◆ Ultra Filtration Plant-35000 LPH: : SIDCO J&K
- ◆ Ultra Filtration Plant-5000 LPH Alcobrew Distilleries, Solan (HP)
- ◆ Softener Plant-8000 LPH, Faridabad
- ◆ De-mineralization Plant-3000 LPH, Delhi
- ◆ Softener Plant-6000 LPH, Delhi
- ◆ Reverse Osmosis Plant -15000 LPH : Lullu Group, Punjab
- ◆ Reverse Osmosis Plant -5000 LPH for Dialysis unit, Faridabad etc
- ◆ Water Filtration Unit-60,000 LPH & 90,000 LPH- Dalmia Sugar, Lucknow
- ◆ Water Filtration Unit-20,000 LPH – Maharashtra





# V.K. POWER SYSTEMS (OPC) PVT. LTD.





## POLYMERIC FILTER CARTRIDGE

### PP - PES - PTFE - NYLON - PVDF - GLASS FIBER

Filters are made of Micro series hydrophobic, hydrophilic, PP thermal Sprayed fiber nonwoven membrane, avoiding fiber shedding problem and offering high interception, efficiency its hierarchical filter process makes their cartridge less blocked, prolonging their service life.

### PARAMETERS

- **Micron Rating** : 0.1, 0.2, 0.45, 0.8, 1,3, 5, 10, 20, 30, 50, 70 (Unit Micron)
- **End Connection** : Code-7, DOE ,222, Internal Oring Cartridge
- **Diameter** : 50mm, 70mm, 83mm, 130mm

### MATERIAL CONDITIONS

- **Filter Media** : PP - PES - PTFE - PVDF - NYLON - GLASS FIBER
- **O ring** : Silicone, EPDM, Viton, PTFE, Encapsulated PTFE
- **Seal method** : melting
- **Operating Conditions**
  - Maximum working temperature 80° C
  - Sterilization temperature : 121°C @ 30 min.



## CAPSULE FILTERS

- **Material** : PP,PTFE,PES,PVDF,Nylon,Glass fiber
- **Micron Rating** : 0.2,0.5,0.45,0.8,1,5,10,20
- **Length** : 1/4"-1/2"-1/4" Swagelok, NPT, Nozzle, TC, Threaded



## MODULE FILTERS

Filtration modules is the filtration system preferred by businesses that require a filter that eliminates dripping and the presence of insects on traditional press filter. During bottling these filters go before microfiltration.

### FEATURE AND BENEFITS

- Easily handling module can be well protected during installation and disassembly.
- Repeatedly Flushed and high service area.
- Filtration safety increased, comprehensive support to filter and enhance the stability of filter core, no leakages, high pollution collection, long service life
- **MOC** - Cellulose, Natural, diatomite, Perlite, Carbon module
- **Supporting Separation Material** - PP PTFE
- **Sealing** : Silicone Buna -N, PTFE, EPDM, Viton

### CELLULOSE FILTER CARBON FILTER

- **Sizes** : 6",8",12",16"
- **Structure Layers** : 4,6,9,12,14,15,16,
- **Micron Rating** : 0.4,1 um, 2um , 3 um 5 um 10um 20 um



## SS FILTER HOUSING

We have wide range of filter housing design for Air, Gas, Liquid with standard polished on internal and external surface, small flow resistance, no dead angle, fully meet the requirement of the pharmaceuticals industries GMP, each filter is manufacturing through strict pressure test.

### DESIGN

- Zero Hold Up, Plenum Chamber, Online, Offline, Vent Housing, Multi Round, Electrical Jacket Housing

### MATERIAL OF CONSTRUCTION

- SS316L, SS304, Hastelloy, Hallar coating, PTFE.

### FUTURES AND BENEFITS

- Corrosion-resistant, long life, can be used in a variety of conditions
- Sanitary standard, small flow resistance
- Meets ASME Standard
- Suitability for CIP and SIP
- Available with full Accessories
- Easy Assembling & Zero Maintainers
- RA mirror finishing
- Hydro Testing before out of the factory
- Electro polished
- Plenum base ensure collection of condensate
- Designed to minimize pressure drop
- Customised Design



### AVAILABLE HOUSINGS LENGTH

- 2.5", 5", 10", 20", 30", 40"
- **End connection** : CODE-7, DOE, 222, BSP Threaded, Internal Oring
- **Body** : Flange, TC Clamp, C Clamp

## COMPRESSED AIR FILTER

The series of compressed Air Filter effectively remove the air in the liquid water, Oil dust, here are the shape structure, installation, there are various brands and spec of air compressed in the market

namely their connection of filter and length are different from each other

- High quality anti-corrosion treated with anodized
- Borosilicate glass fiber
- Special streamlined within the groove
- Rib design Shell
- Carbon filters
- Safety whistle hole
- Automatic drain valve
- Pressure relief valve
- Level indicator window
- Pore Size : 0.0.1,0.2,1,5,10





## SS FILTERS & DISC FILTERS

- POWDER SINTERED FILTERS
- PLEATED SS FILTERS
- WIRE MESH FILTERS
- MULTILAYER SS FILTERS

SS filter are made of special process through sintering their porous structure is uniform and stable having high porosity and high interception efficiency sinter filter also temperature insensitive anticorrosive, high mechanical, regenerative, and durable, application to filter various gases and liquids, in particular, they are widely used in pharmacy industry for removing carbon.

### PARAMETERS

- **Length** : 2.5" to 40" long
- **Micron Rating** : 0.2 to 100 um
- **Dia meter** : 25mm OD 100 OD
- **End Connection** : 222, Code-7, DOE , 1" BSP threaded, OR
- **Sealing** : Silicone ,EPDM,PTFE ,Viton, Encapsulated PTFE

### APPLICATION

- Steam Filtration
- Solvent Filtration
- Carbon Removal
- Catalyst recovery petrochemical
- Gas and Air Filtration
- Oil Filtration

### FEATURE AND BENEFITS

- High filtration area
- Back washable
- Low pressure Drop
- High dirt capacity
- No media migration



## DUST COLLECTOR FILTER

Our Pleated filters cartridge are made in remove of sediment and turbidity there cartridge are designed with more filtering areas then the normal depth cartridge up ten more times, with maximum service life, they are available in wide range of application

- **Material** : polypropylene, polyester,
- **Micron Rating** : 5,10,20,30,50,100 um
- **Length** : 5,10,20,30,40 inch. and other special size
- **End Cap** : DOE, NPT, seal type



## FILTER PAPER & PAD

We are Suppliers a wide range of filter papers & pads .In industries like drugs, pharmaceuticals, foods, beverages, chemicals, cosmetics etc.

The main advantage of depth filters is their high contaminant-retention capacity (as opposed to surface filters, in which contaminants are retained via the simple mechanical action of a surface sieve). In addition to the most typical 40×40 or 60×60 cm filter presses, we can supply any format with or without holes.

- Size-As per Customer Require



## FILTER INTEGRITY TESTING

Sterile filter integrity testing and validation service for your sterile filter membrane systems, to ensure proper functionality for the safety of your staff and the environment.

Integrity testing to perform for non-destructive integrity testing of your membrane filters assemblies.

Testing capabilities include bubble point test, water intrusion test & forward flow test, Upon completion of the test, electronic and paper reports are generated for documentation and regulatory compliance indicating a status.

### FUNCTION

- Bubble Point Test
- Water Intrusion Test
- Pressure Hold Test
- Diffusion Test
- Forward Flow Test

### BENEFITS OF FILTER INTEGRITY TEST

- Validation that filter meets the manufacturer's specifications
- Validation that filter is installed correctly
- Validation that filter is proper grade for application
- Test report documentation to comply with regulatory requirements
- Peace of mind that biosafety concerns are met



## MEMBRANE FILTER & SYRINGE FILTER

### MEMBRANES

- Cellulose Nitrate, Nylon 66, PTFE ,PP, PES , PVDF, Glass Fiber
- **Size** : 13mm,25mm, 47mm 90mm,142mm, 293mm
- **Micron Rating** : 0.2,0.45,0.8,1,5

### SYRINGE FILTER

- **Size** : 3mm 25mm 40mm 50mm
- **Micron Rating** : 0.2,0.45,0.8,1,5
- **MOC** : Cellulose Nitrate, Nylon 66, PTFE ,PP, PES , PVDF,Glass Fiber



## BAG FILTER

### PRODUCT SPECIFICATION

- Micron Rating: 1, 5, 10, 25, 50, 100 micron
- Material of Construction: Polypropylene, Polyester, Nylon etc
- Configuration : Thermally welded bag filter, Stitched bag filter
- Maximum Operating Temperature: Polypropylene 70 °C, & Polyester 150 °C





# String Wound Cartridges



Manufactured from 100% Polypropylene Cord

High dirt holding capacity

Reduces sand, silt, rust and scale particles

## SHELL STRING WOUND CARTRIDGES

A cost effective for the reduction of sand, silt, rust, dirt and scale particles. Made from 100% Polypropylene cord, String Wound Cartridges can withstand temperatures of up to 165°F(73.9°C).

## SHELL STRING WOUND CARTRIDGES

Are suitable for a variety of applications including residential and commercial applications using both municipal and well water. Different wound patterns for different micron ratings ensure that you are getting the right product for the right application.

### Material of Construction

Filter Media : Polypropylene Fiber Cord / Cotton  
 Core : Polypropylene / SS 304  
 Temperature Range : 40°F to 165°F (4.4°C to 73.9°C)

## 2.5" DIAMETER SPECIFICATIONS

Description	Micron Rating
2.5" x 10"	1, 5, 10, 20, 30, 50, 100
2.5" x 20"	1, 5, 10, 20, 30, 50, 100
2.5" x 30"	1, 5, 10, 20, 30, 50, 100
2.5" x 40"	1, 5, 10, 20, 30, 50, 100

## 4.5" DIAMETER SPECIFICATIONS

Description	Micron Rating
4.5" x 10"	1, 5, 10, 20, 30, 50, 100
4.5" x 20"	1, 5, 10, 20, 30, 50, 100

**WARNING:** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

\*Special lengths and diameters available.

# Sediment Depth Cartridges

## Melt Blown Filter Cartridges



Graded density for higher dirt holding capacity

Manufactured from 100% pure polypropylene

### 4.5" DIAMETER CARTRIDGES

The 4.5" diameter cartridge's coreless design is an economical solution to pre-filtration for many applications. They are used widely as pre-filtration for RO systems and post-filtration for GAC filters. They are also used in applications such as ice machines, film processing, beverage, coffee, analytical, wineries, and many others.

### 2.5" DIAMETER CARTRIDGES

The 2.5" diameter Cartridges have true multi-stage depth filtration integrated into their design. Utilizing three separate layers of micron filtration, outside-in flow allows the outer layer to trap the larger sized particles, resulting in a much lower pressure drop compared to conventional filters. Trapping various sized particles layer-by-layer, our cartridge provide a much higher dirt holding capacity than standard spun Polypropylene and string wound cartridges.

### PRODUCT APPLICATIONS

Electroplating, etching, and image developing processes in PCB Industry  
Filtration for electroplating industry  
Pre-filter for DI and RO water filtration systems  
Pre-filtration for low viscosity chemicals  
Pre-filtration for manufacturing and water recycling

### Materials of Construction

Filter Media : Polypropylene  
Temperature Range: 40°F to 145°F (4.4°C to 62.8°C)

### Operating Data

Max. operating temp. : 145°F (63°C)  
Max. pressure drop : 69°F (20°C) 46.4 psi 3.5 kg/cm<sup>2</sup>  
Recommended replaceable  
Pressure drop : 21.75 PSI (1.5 kg/cm<sup>2</sup>)  
Temperature range : 40°F to 145°F (4.4°C to 62.8°C)  
Maximum flow : 7.5-30.28 LPM (Depending on micron rating)

### 2" DIAMETER SPECIFICATIONS

Size	Description	Micron Rating Nominal	Initial ΔP (psi) at Flow Rate (Lpm)
5"	2.5" x 5"	1, 5, 10	0.3 psi at 8 LPM
		1	0.6 psi at 19 LPM
		5	0.4 psi at 19 LPM
10"	2.5" x 10"	10	0.2 psi at 19 LPM
		20	0.2 psi at 19 LPM
		50	0.3 psi at 19 LPM
		1	0.6 psi at 38 LPM
20"	2.5" x 20"	5	0.4 psi at 38 LPM
		10	0.3 psi at 38 LPM
		20	0.3 psi at 38 LPM
		50	0.3 psi at 38 LPM
		1	0.4 psi at 57 LPM
30"	2.5" x 30"	5	0.3 psi at 57 LPM
		10	0.3 psi at 57 LPM
		25	0.3 psi at 57 LPM
		75	0.3 psi at 57 LPM
		1	0.3 psi at 76 LPM
40"	2.5" x 40"	5	0.3 psi at 76 LPM
		25	0.2 psi at 76 LPM
		75	0.2 psi at 76 LPM

### 4.5" DIAMETER SPECIFICATIONS

Description	Micron Rating Nominal	Initial ΔP (psi) at Flow Rate (Lpm)
4.5" x 10"	25 - 1, 25 - 5, 75 - 10 100 - 20, 150 - 50	1 psi at 38 LPM
4.5" x 20"	25 - 1, 50 - 5, 75 - 10 100 - 20, 150 - 50	1 psi at 76 LPM

**WARNING:** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

\*Special lengths and diameters available.





## Energy Efficient Cooling Towers & Axial Flow FRP Fans





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