



Your reputation is our Priority & so we manufacture machines as per International regulations and standards.



ALSO CERTIFIED BY

TPC / Trade Promotion
Council of India

DUBAI OFFICE

Bhingatti Building,
Silicon Oasis,
Dubai-UAE, 443006

INDIA OFFICE

F1, Gulmohar Palace,
Koregaon Park, Pune,
Maharashtra-411001,
India

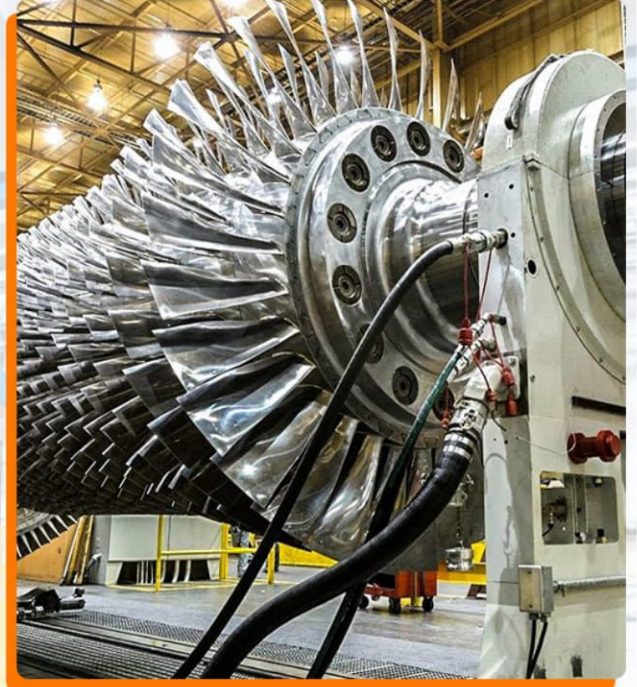
 www.abislgroupp.com

 sales@bhagat-tech.com | info@abislgroupp.com

 Dubai: +97142992560 | India: +91-9879452091, +91-7061677110

ABOUT US

- Established in 2019, "ABISL Group" is a leading Turnkey solution provider with ISO 9001:2015 certification. We offer high quality equipment solutions in more than 12+ Industries.
- Now, "ABISL Group" has a presence spanning over 22+ countries. We are associated with cGMP, FDA, CE certified manufacturing facilities in India, with proven stringent precision quality controls to meet the specific requirements of our global clients.
- Our Sales offices are located in Dubai U.A.E & India to offer world-class logistics support to our global clients.



OUR MISSION



We deal with the finest quality part manufacturers to ensure that our esteemed customers get nothing short of the best quality and practices. Our extensive stock of parts guarantees that we are able to provide more effective solutions for any client globally. Our passion and extensive knowledge and understanding of our field is surpassed only by our outstanding level of service, certified and respected throughout the region and beyond.

INDUSTRIES

**FOOD &
BEVERAGE**

FMCG

**PHARMAC
EUTICALS**

CEMENT & SAND

SPICE INDUSTRY

**PLASTIC &
POLYMERS**

**SUGARCANE
INDUSTRY**

**AGRICULTURAL,
FERTILIZER
PROCESSING**

**CHEMICAL &
PIGMENTS**

INK & PAINTS

**GLASS &
CERAMICS**

**MINERAL &
METAL**

PAPER & PULP

WASTE WATER



PRODUCTS

**AGITATOR
TANK**

**SPICE
PROCESSING
PLANT**

**BAG DUMP
STATION**

BLENDERS

CONVEYORS

**SELF CLEANING
FILTERS**

HOPPER

IBC

**JUMBO BAG
TRANSFER
SYSTEM**

MIXTURE

**PACKING
MACHINE**

**PNEUMATIC
TRANSFER
SYSTEM**

**VACUUM
TRANSFER
SYSTEM**

PULVERIZER

**SIEVING
SYSTEM**

SILOS

SELF CLEANING FILTERS

Auto Backflush Type Self Cleaning filter is constructed of filter housing, filter element, back flushing valve, differential pressure gauge, differential pressure switch, dust Extraction assembly, geared motor with sensor and control panel. Filter housing can be offered in variety of materials such as various grades of stainless steel, carbon steel and alloy metal. Filter element can also be offered in wedge wire, multi layered wiremesh, and plain wiremesh configuration, depending upon process requirement. These filters can offer filtration level starting from 1 micron to 2000 micron. They are designed to deliver flow rate up to 2000 m³/hr or even more than that with parallel configuration.



FILTRATION

Auto self cleaning filters are designed for flow direction from inside to outside. Contaminated fluid enters into the filter housing through the inlet connection. It passes throughout the inner surface of the filter element, where suspended particles of defined micron rating are retained inside & clear filtered material comes out from filter housing through the outlet connection. Suspended particles are retained inside filter element which creates a layer of debris, resulting in an increase in differential pressure.

BACK WASHING/CLEANING

Filter element cleaning mechanism constructed of dust extraction assembly, which rotates inside the surface of filter element & moves upward- downward to ensure proper cleaning of filter element throughout the area. Dust extraction assembly is constructed of precisely designed nozzles at pre-defined distance from filter element surface.

Such nozzles are equally placed perpendicular with center pipe, which rotates with the help of geared motor at defined speed. Dust extraction assembly is also connected with back flush valve that has finally open end to the atmosphere. Once differential pressure reaches to its pre set level, control panel send signal to back flushing valve to open. With pressure difference within filter element & atmospheric pressure outside, it creates high suction inside the filter element. Due to this suction pressure, debris/cake deposited on element surface is pulled out through nozzles & finally discharge from filter housing through flushing line. With high velocity of water within nozzle create a jet pressure to remove sticky cake deposition even with small opening. This entire process of back flushing completed within 30 – 60 seconds depends upon size of filter element.



FEATURES



- **SIMPLE OPERATION OF FILTRATION.**
- **EASY PROCESS OF BACKWASH / BACK FLUSH.**
- **LESS WASTAGE OF WATER FOR CLEANING.**
- **NO CONSUMABLE COST.**
- **UNINTERRUPTED THROUGH OUT ALL TIME, EVEN DURING BACK FLUSHING.**
- **CAN HANDLE HIGH SUSPENDED LOAD.**

APPLICATIONS

Domestic water supply

Tooth Paste

Reverse osmosis

Glycol

Softening

Cooling water

Ion exchange

Reclaimed water

Oil field

Ground water

Paint & Inks

Surface water removal

Solvents

Boiler backwater

Chemicals

Swimming pools

Latex

Landscape water

Adhesive

Green spray

Lubricants

Agriculture irrigation water

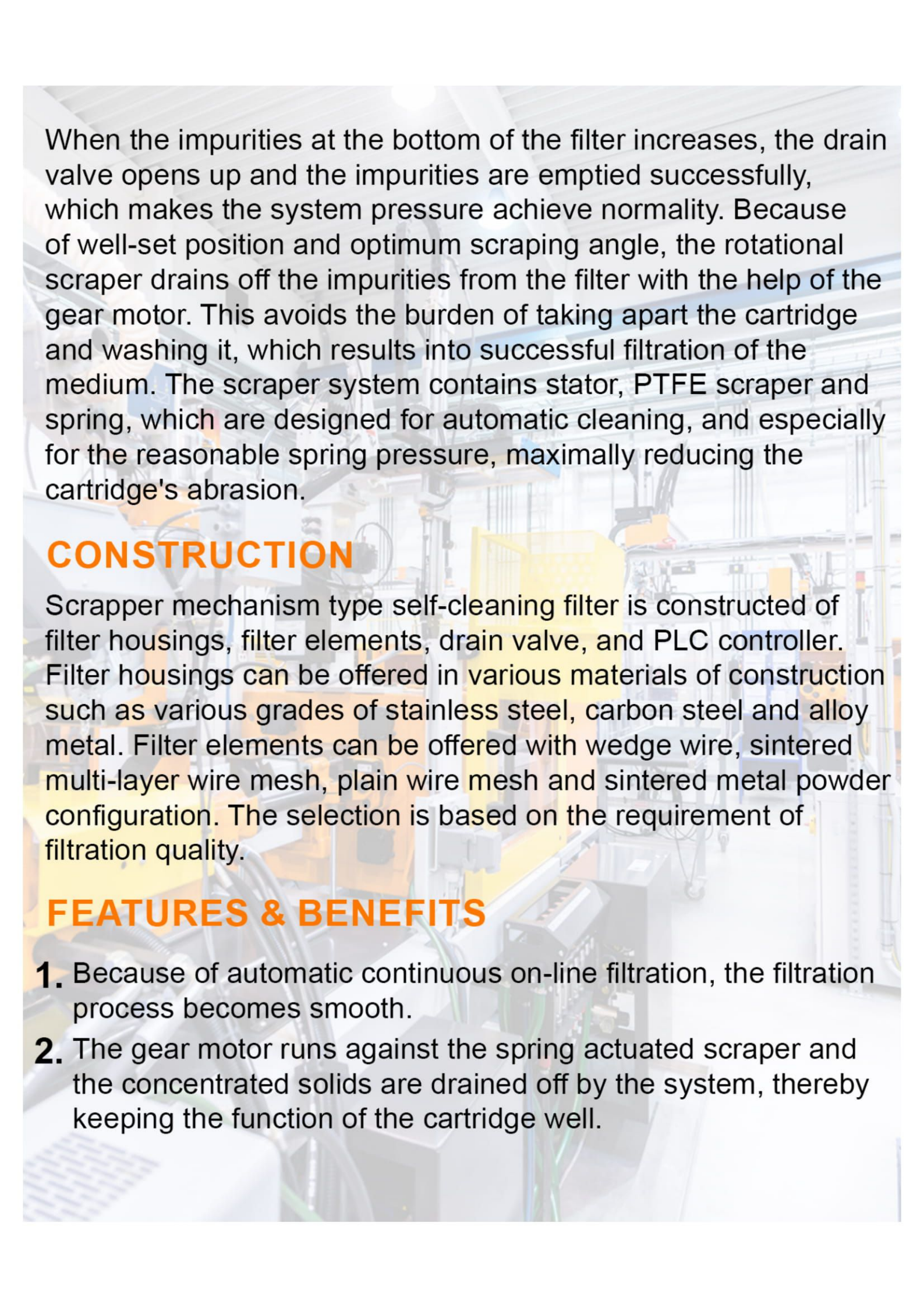
SCRAPPER MECHANISM TYPE SELF CLEANING FILTER HOUSING

Scrapper Mechanism Self Cleaning Filters are widely used for continuous filtration requirements without any replacement of Filter Consumables and Exposure of operators. Like auto backwash filter, Scrapper Mechanism Self Cleaning is used for preliminary filtration following the same principle of differential pressure; the only difference is, it is used for applications where back washing medium is not available. In other words, Scrapper Mechanism Self Cleaning Filter is used where in one cannot introduce any additional substance for back washing.



OPERATION

The medium to be cleaned is guided into the filter by inlet, which passes from inside to outside through the cartridge gap. After filtration, the filtered fluid exits the filter housing from the top, opposite to the inlet connection and the bigger solids are separated on the surface of the triangular cartridge wires. When it runs for a certain time, the cartridge gap gets plugged up by impurities and meanwhile the differential pressure reaches its pre-set value. Then PLC inspects the signal and sends out the indication. The gear motor drives the scraper and the particles or agglomerates are skimmed from the surface, thereby keeping the function of cartridge well and keeping the cartridge gap clean.



When the impurities at the bottom of the filter increases, the drain valve opens up and the impurities are emptied successfully, which makes the system pressure achieve normality. Because of well-set position and optimum scraping angle, the rotational scraper drains off the impurities from the filter with the help of the gear motor. This avoids the burden of taking apart the cartridge and washing it, which results into successful filtration of the medium. The scraper system contains stator, PTFE scraper and spring, which are designed for automatic cleaning, and especially for the reasonable spring pressure, maximally reducing the cartridge's abrasion.

CONSTRUCTION

Scraper mechanism type self-cleaning filter is constructed of filter housings, filter elements, drain valve, and PLC controller. Filter housings can be offered in various materials of construction such as various grades of stainless steel, carbon steel and alloy metal. Filter elements can be offered with wedge wire, sintered multi-layer wire mesh, plain wire mesh and sintered metal powder configuration. The selection is based on the requirement of filtration quality.

FEATURES & BENEFITS

1. Because of automatic continuous on-line filtration, the filtration process becomes smooth.
2. The gear motor runs against the spring actuated scraper and the concentrated solids are drained off by the system, thereby keeping the function of the cartridge well.

FEATURES & BENEFITS

3. PLC control function means differential-pressure cleaning, scheduling of cleaning process and manual cleaning. The differential-pressure is an important parameter for operation and can be connected with the central control room.
4. Validated by practice, this filtration process is highly effective and using the wedge cartridge, it can be easily cleaned with less abrasion.
5. In many fields, this filter can replace the traditional filters like sand filters, Filter press etc.

APPLICATIONS

DOMESTIC WATER SUPPLY

TOOTH PASTE

REVERSE OSMOSIS

GLYCOL

SOFTENING

COOLING WATER

ION EXCHANGE

RECLAIMED WATER

OIL FIELD

GROUND WATER

PAINT & INKS

SURFACE WATER REMOVAL

SOLVENTS

BOILER BACKWATER

CHEMICALS

SWIMMING POOLS

LATEX

LANDSCAPE WATER

ADHESIVE

GREEN SPRAY

LUBRICANTS

AGRICULTURE IRRIGATION WATER

SPARKLER FILTERS

Sparkler Filter Press manufactured by us at ABISL. Equipment boasts of the advanced quality-controlled procedure supervised by verified and skilled professionals.

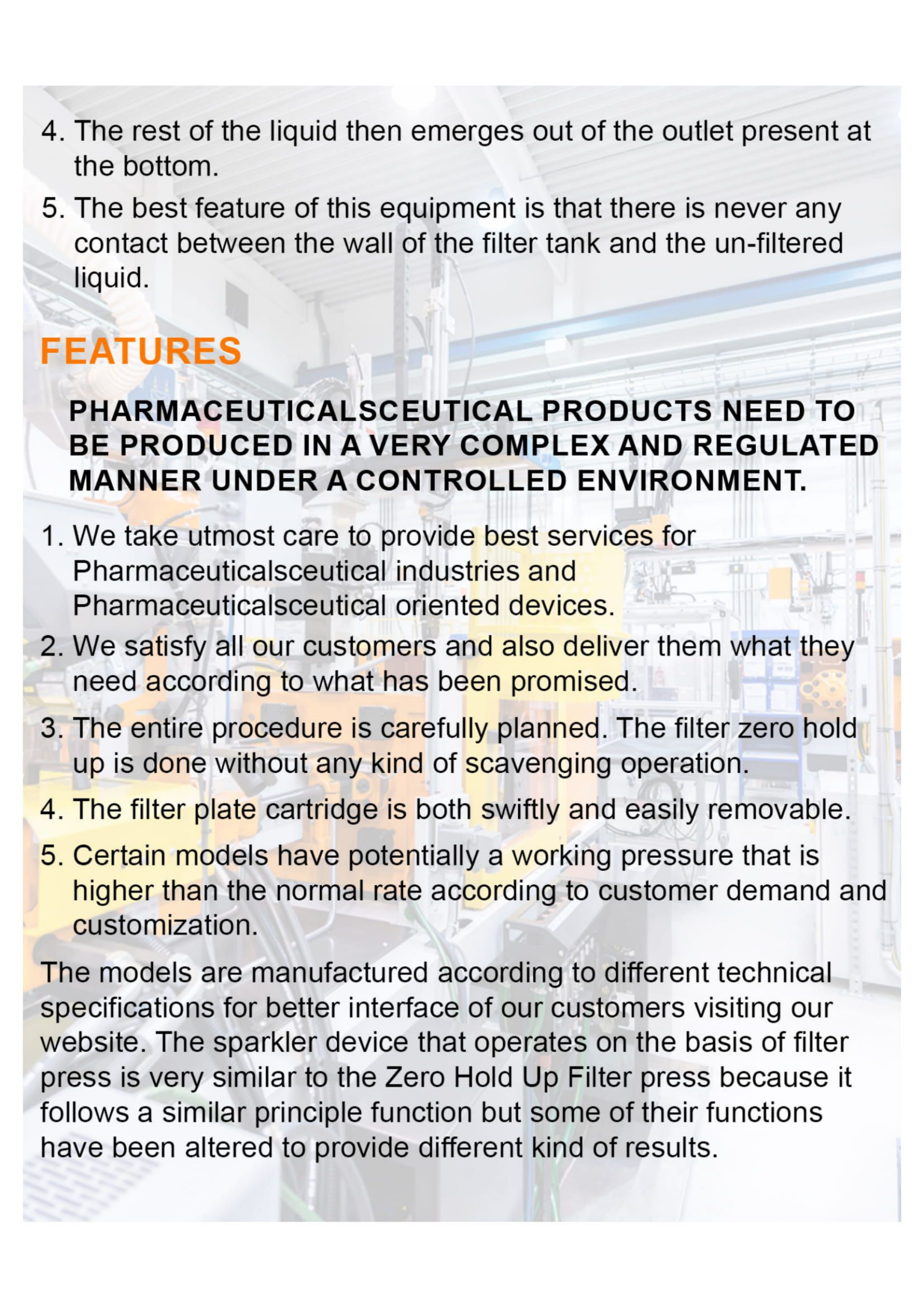
It does the work of filtering liquid substance from solid substance at a wider scale. It is used in several industries such as food and beverages oriented Pharmaceuticals, chemical factories, distilleries, etc. However, the Pharmaceuticalsceutical industry has more demand over these products as they need authentic equipment by specific Pharmaceuticalsceutical oriented manufacturers.



FUNCTIONING OF SPARKLER FILTER PRESS FUNCTION



1. Liquid is first pumped through a central channel of a cartridge from the bottom of the model.
2. Suspended particles are then retained on filter plates that have the filter media on top of it.
3. Peripheral holes present of platen then help to clean filtrate accumulated into the tank.

- 
4. The rest of the liquid then emerges out of the outlet present at the bottom.
 5. The best feature of this equipment is that there is never any contact between the wall of the filter tank and the un-filtered liquid.

FEATURES

PHARMACEUTICALSCEUTICAL PRODUCTS NEED TO BE PRODUCED IN A VERY COMPLEX AND REGULATED MANNER UNDER A CONTROLLED ENVIRONMENT.

1. We take utmost care to provide best services for Pharmaceuticalsceutical industries and Pharmaceuticalsceutical oriented devices.
2. We satisfy all our customers and also deliver them what they need according to what has been promised.
3. The entire procedure is carefully planned. The filter zero hold up is done without any kind of scavenging operation.
4. The filter plate cartridge is both swiftly and easily removable.
5. Certain models have potentially a working pressure that is higher than the normal rate according to customer demand and customization.

The models are manufactured according to different technical specifications for better interface of our customers visiting our website. The sparkler device that operates on the basis of filter press is very similar to the Zero Hold Up Filter press because it follows a similar principle function but some of their functions have been altered to provide different kind of results.

The background of the image is a faded, light-colored photograph of industrial machinery. It features various components such as hydraulic cylinders, hoses, and metal fittings. A prominent white hydraulic valve block with a 'T-2' label is visible in the upper center. To the left, there are several black hydraulic hoses connected to a manifold. In the foreground, a large, polished metal shaft or cylinder is visible, along with a blue O-ring seal. The overall image has a clean, professional look with a soft, semi-transparent overlay.

THANK YOU

**PLEASE CONTACT ABISL FOR BEST QUALIFIED
EQUIPMENT SERVICES.**