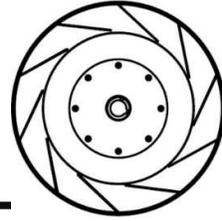


CHEMICA



PUMPS & FILTRATION

Turning vision into reality...!!!



FILTER PRESS

Solid-Liquid separation machine...!!!

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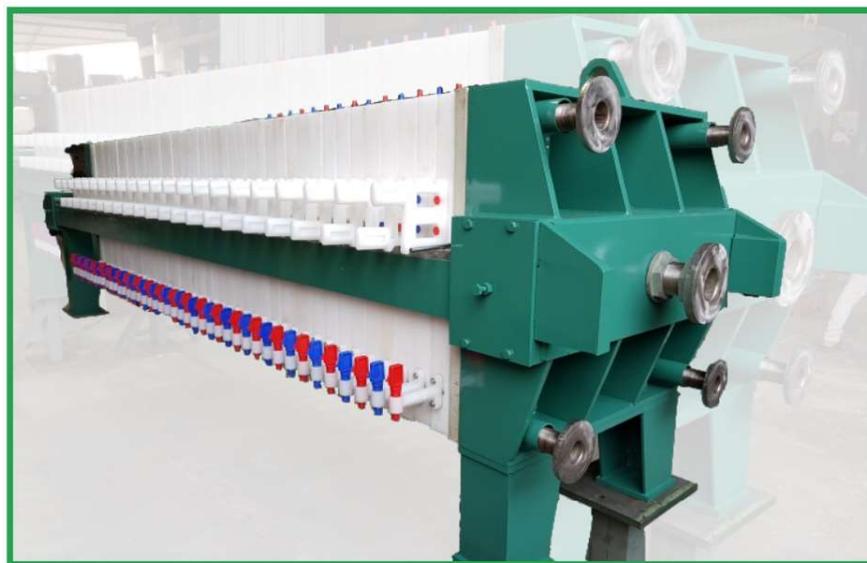
www.chemicapumps.com

CHEMICA PUMPS & FILTRATION is the India's leading sales and service providers for solid-liquid separation machine called **FILTER PRESS**.

With our team of competent engineers and vast expertise in the field of filtration technology technology, we will always be available to you, whether for new installation or on-site advice.

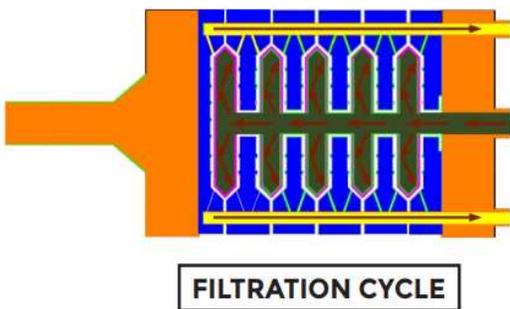
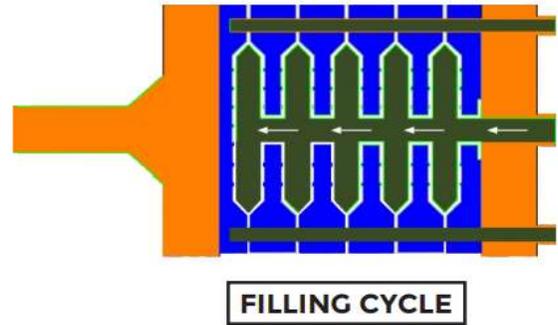
WHAT IS **FILTER PRESS** ?

An industrial filter press is a tool used in separation processes, specifically to separate solids and liquids. The machine stacks many filter elements and allows the filter to be easily opened to remove the filtered solids, and allows easy cleaning or replacement of the filter media.



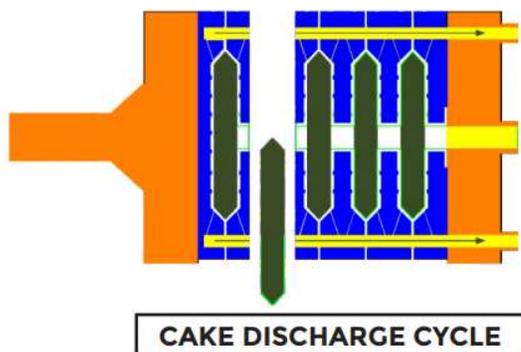
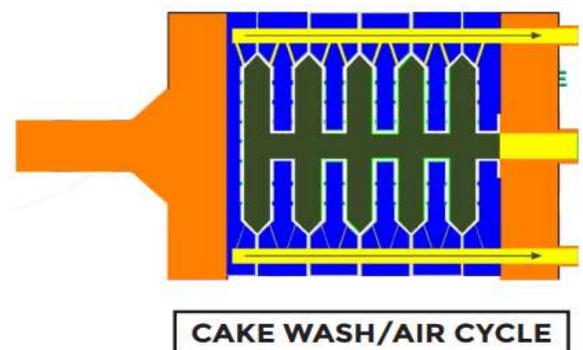
HOW DOES FILTER PRESS WORKS ?

Slurry is pumped into the filter press. The solids are distributed evenly on the filter cloths during the feed (fill) cycle.



Solids start to deposit on the filter cloth & building a filter cake. The filter cake acts as a depth filter for solid/liquid separation. Filtrate exit from the plates through the corner ports into the manifold. As the filter press feed pump builds pressure, the solids build within the chambers until they are completely full of filter cake.

It is useful for maintaining pH value of filter cake and decrease the moisture in filter cake.



Once the chambers are full, the feeding cycle is complete and the filter press is ready to unload.

FILTER PRESS SPECIFICATIONS

FILTER PRESS SIZE	RECOMMEDED CHAMBERS	CAKE THICKNESS	FILTRATION AREA (m ²)	WET CAKE VOLUME (Litres)	DIMENSIONS		
					L	B	H
355	14	30	2.11	29.4	2450	720	850
470	18	32	6.12	93.24	3068	830	870
610	24	35	13.48	235.95	3749	980	1140
800	30	35	29.4	514.5	4580	1260	1450
915	36	40	48.6	972	5124	1360	1490
	36	50	49.32	1216.8	4630		
1000	40	40	65.6	1232	5865	1360	1476
	40	50	68	1500.64	6265		
1200	50	40	119	2000	6670	1670	1900
	50	50	124	2520	7170		
1500	60	40	224.4	4122	7820	2200	2275
	60	50	231	5250	8422		
1500 X 2000	70	40	347.2	6419	8530	2200	2790
	70	50	358.4	8176	9122		

INDUSTRIES WE SERVE

WTP

ETP

STP

FOOD

PHARMA

TEXTILES

STEEL

AUTOMOBILE

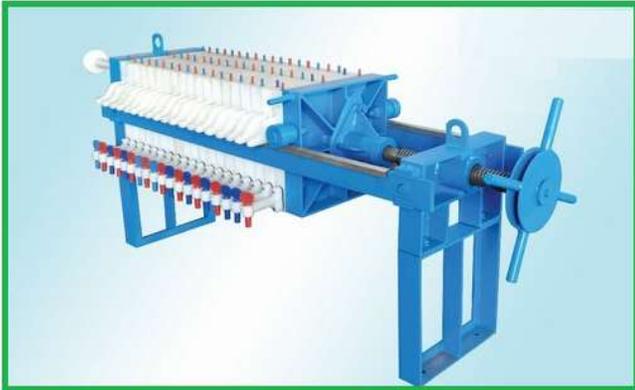
CHEMICALS

DYES

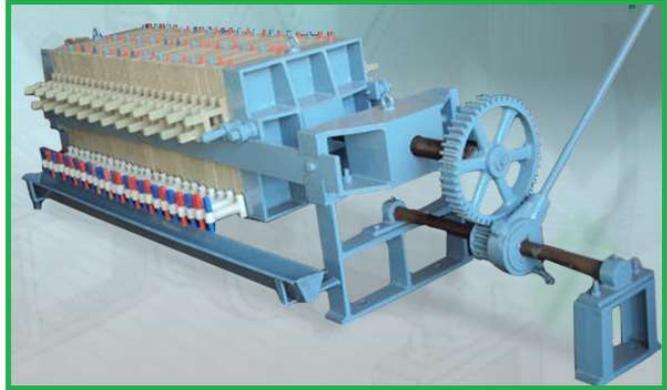
EDIBLE OIL

CERAMIC

MANUAL FILTER PRESS



CAPSTAN TYPE



RATCHET TYPE

Basic form of Filter Press where every operation is done manually. Effective and inexpensive solution for handling smaller quantities of material.

Available from 300mm to 915mm plate sizes.

RECESSED FILTER PRESS

Recessed Filter Press for high pressure filtration and produces filter cake of low moisture content.

Heavy Duty Steel construction with twice epoxy coating for maximum corrosion resistance.

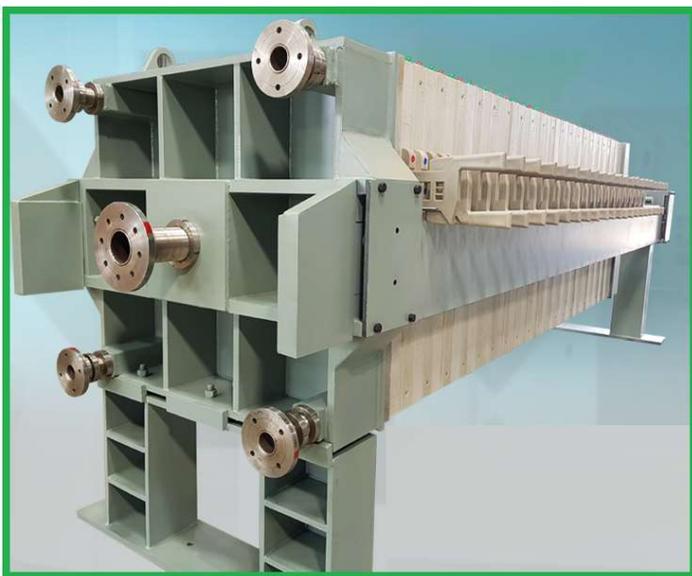
Filter Plates are 100% corrosion resistant PP.



CGR (ZERO LEAKAGE) FILTER PRESS

These are advanced version of recessed chamber filter plates, where filter cloth is caulked in the caulking groove around the recess plate.

O-Rings seats around the sealing edge and filtrate hole, securing tight seal when the plates are closed.

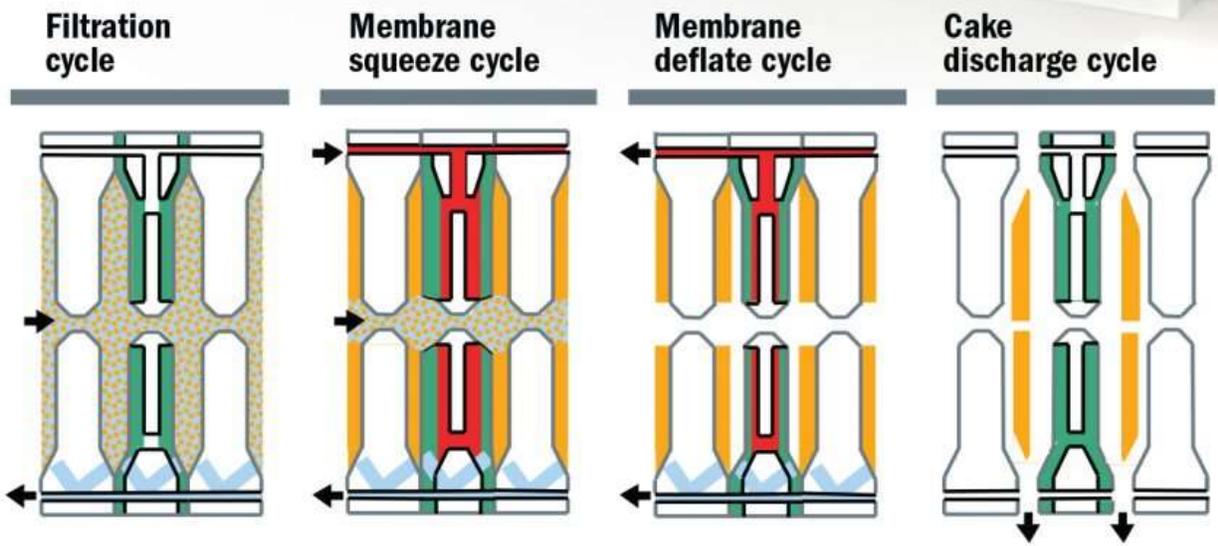


CGR Plates are recommended for leak proof conditions like toxic substance and acidic solutions etc.

O-Rings are available in different MOC's like EPDM, VITON, SILICON, NEOPRENE etc.

These plates are designed at 8 bar and 16 bar operating pressure.

MEMBRANE TYPE FILTER PRESS

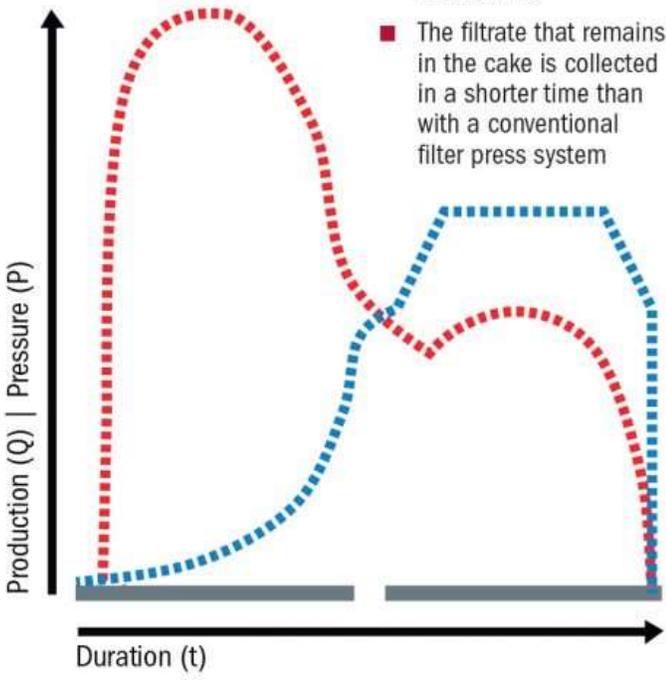


- Introduction of the materials to be filtered
- The cakes begin to filter
- High flow rate of the filtrate

- Pressure increase of the feeding pump until an intermediate value
- Compacting step by means of water or air injection onto the membranes
- The filtrate that remains in the cake is collected in a shorter time than with a conventional filter press system

- Deflate step: water/air evacuation within the membranes

- Plate shifting (cakes discharge)



- SLUDGE
- CAKES
- PRESSURIZED WATER/AIR
- FILTRATE
- MEMBRANE
- FILTER CLOTH

- FLOW
- PRESSURE

WORKING EXPLAINED :



In Membrane Type Filter Press, a membrane, also called a diaphragm, is designed to inflate by compressed air or pressurized water to squeeze residual moisture out of the formed filter cake.

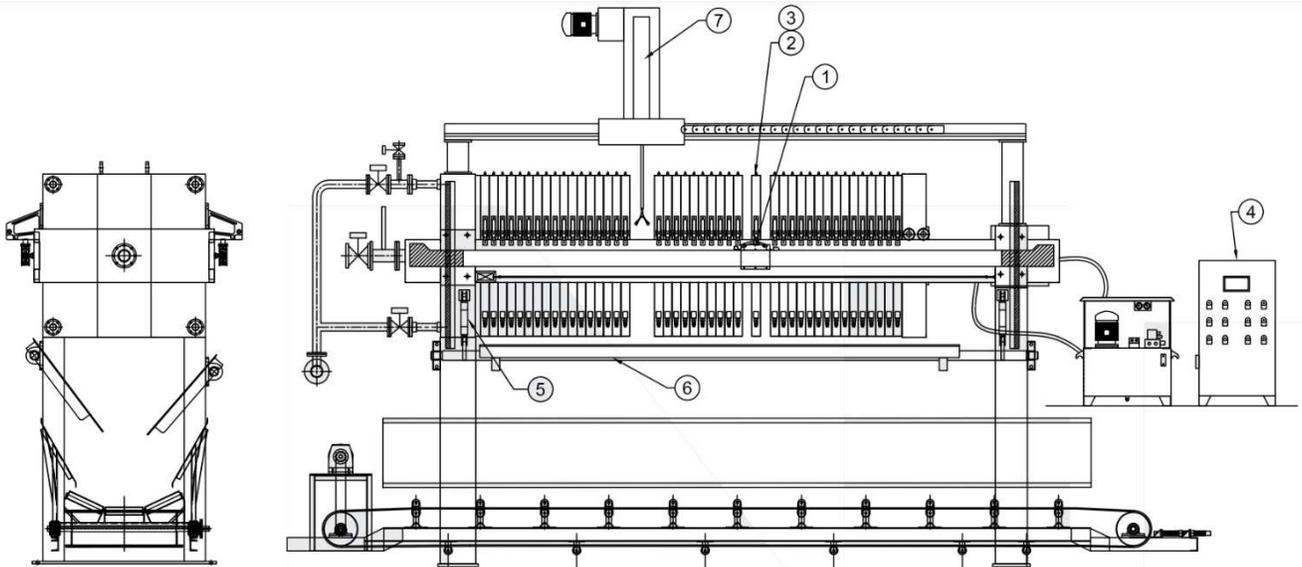
Once the filter press is filled, water or air under pressure is used to swallow the membranes which further compresses the cake and pushes out the residual liquid.

The thickness of the filtration chamber is usually 30 – 50 mm before compressing, by compressing the membrane it is reduced most often by 20 – 40%.

Filling pressure before the start of the membrane compression is usually 8 bars, it rises up to 15 bars during compressing.

Structurally, we provide filter presses to a maximum pressure of 30 bars.

OPTIONAL EQUIPMENTS & ACCESSORIES



1. FILTER PLATES

2. PLATE SHIFTERS

3. FILTER CLOTH

4. CONTROL PANEL

5. AUTOMATIC DRIP TRAY

6. FILTERATE COLLECTING CHUTE

7. HYDRO-MECHANICAL FILTER CLOTH CLEANING

CLOSING DEVICE

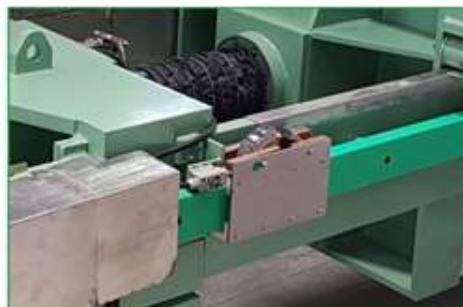
LOCK NUT TYPE CYLINDER



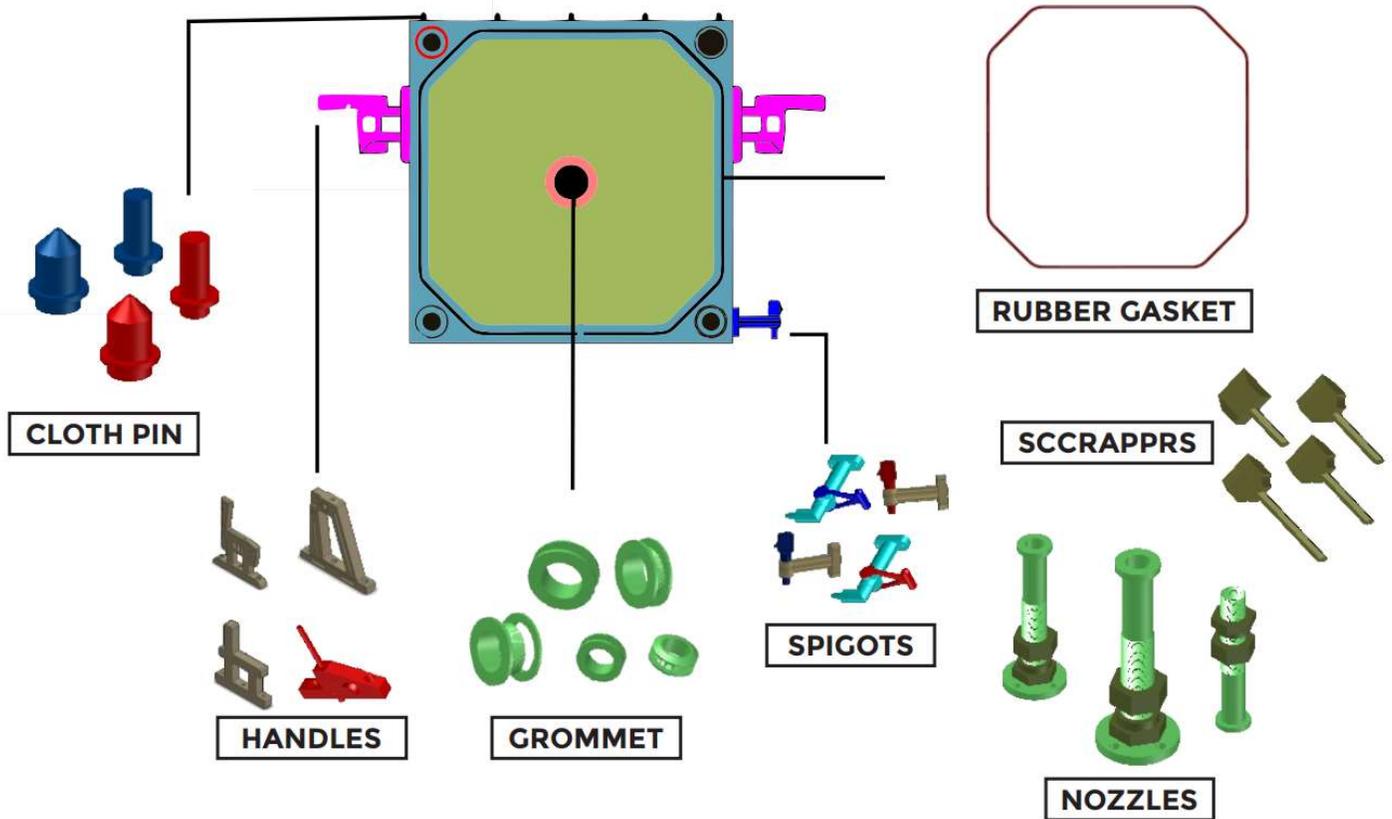
MANUAL CAPSTAN TYPE



PULL BACK TYPE CYLINDER



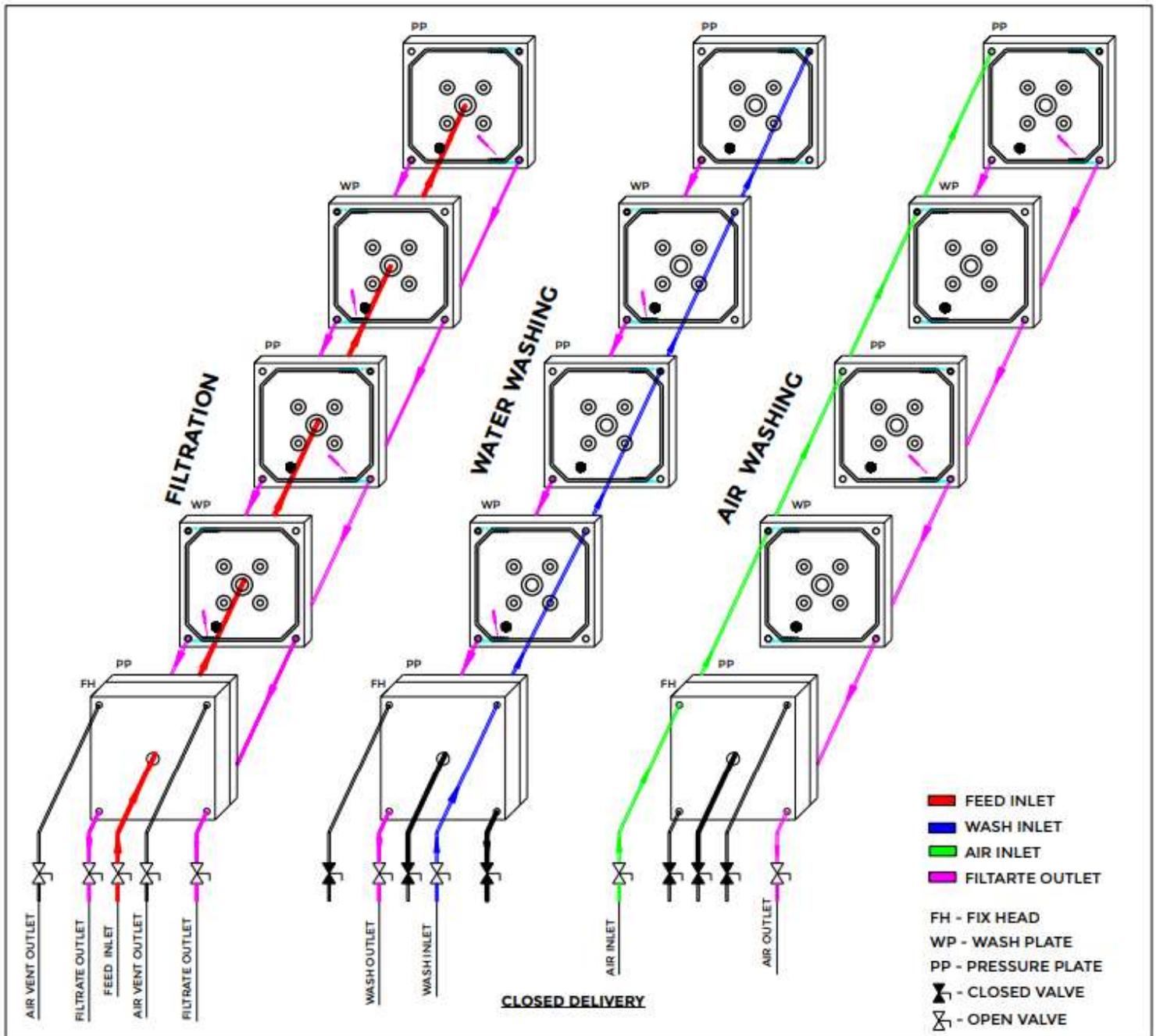
FILTER PLATE ACCESSORIES



FILTER PRESS ACCESSORIES



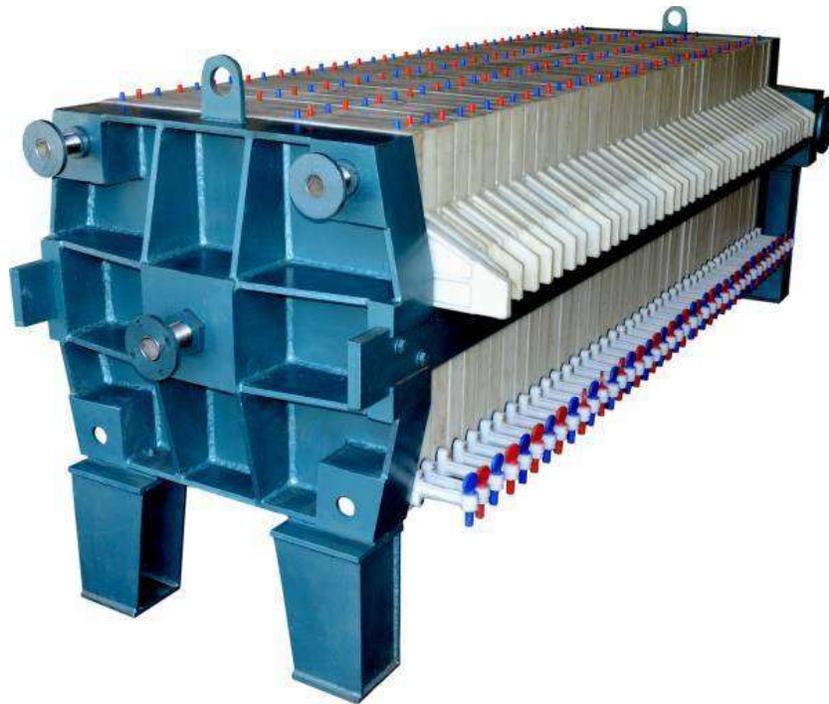
CLOSE DELIVERY LAYOUT



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