

# FILTER PRESS SOLUTIONS



**Fluorolined  
Equipment Pvt.Ltd**

™



™

**investa**

*Performance is Everything*



# Working Principle of Filter Presses:

Machines which are used to Filtrate Suspensions under high Pressurized

It comprises of Set of Chamber Plates covered by Filter Cloth in order to Pressurizing Sludge through a Feed Pump and Squeezing of Chamber Plates

## Feed Pump 1



### Properties & Advantages:

- Completely Reversed balanced Internally Mounted Mechanical Seal Developed for High Slurry and Sludge Content Application.
- Can work under very high back pressure.
- Large Cross Sections and Thickness of Seal Face Parts in order to overcome the difficulties in High Sludge Content Applications.
- Can work very well continuously at higher RPM's as well.
- Due to very High Pressure Requirements, at the Time of Effective cake formation and Squeezing of Chamber Plates a very high amount of Back pressure is involved which is dealt very efficiently with this Mechanical Seal with it very hard Single Coil (Completely Stainless Steel with PVDF Coated) Spring with all its other parts being product protected.
- Can be an ideal replacement to a Positive Displacement Pumps.

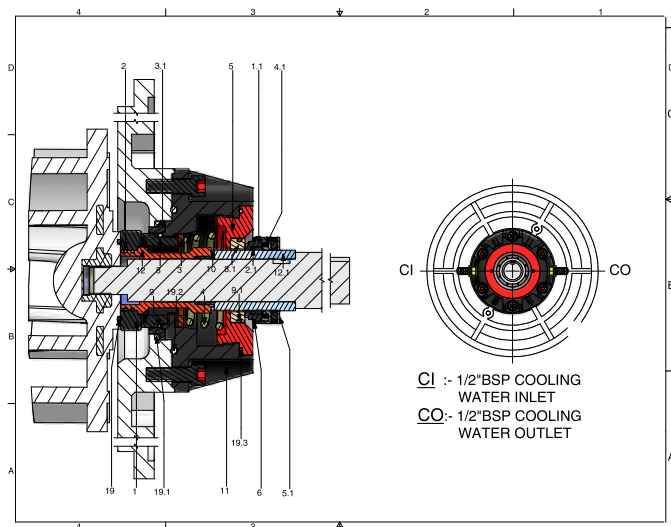
### Applications:

- Acidic Slurries.
- Effluent Waste.
- Pigment Manufacturing.
- Mining.
- Urban or Industrial sludge De-watering.
- Other Chemical and Pharmaceutical Applications.
- Acid Pickling & Acid Regeneration.



## DOUBLE MECHANICAL SEAL

NOTE:- \*\* PARTS NOT SHOWN IN CROSS SECTIONAL VIEW



2.125" IMS SEAL PART LIST			
SR NO.	DESCRIPTION	M.O.C.	QTY.
1	SEAL RING	SIC	1
1.1	SEAL RING	RL CARBON	1
2	O RING	VITON	2
2.1	O RING	VITON	1
3	THRUST RING	PVDF	1
3.1	THRUST RING	SIC	1
3.2 **	THRUST RING	SS 316	2
4	SPRING	SS316+HALAR	1
4.1	SPRING	ALLOY-20	8
5	SPRING HOLDER	SS316	1
5.1	SPRING HOLDER	SS316	1
6	SNAP RING	SS316	1
7 **	SET SCREW	SS316	4
8	SEAT	SIC	1
8.1	SEAT	CERAMIC	1
9	O RING	SP.VITON	1
9.1	O RING	VITON	1
10	GASKET	PTFE	1
11	GLAND PLATE	CF. PVDF	1
12	SLEEVE	SS316+PVDF	1
12.1	SLEEVE	SS316	1
14 **	CAP SCREW	SS304	6
14.1 **	CAP SCREW	SS304	2
19	O RING	SP.VITON	1
19.1	O RING	SP.VITON	1
19.2	O RING	VITON	1
19.3	O RING	VITON	1
34 **	PIPE NIPPLE	CF. PVDF	2

DESIGNED BY GIRISH	DATE 06/08/2011	<b>Fluorinated</b> Equipment Pvt. Ltd.
CHECKED BY		
APPROVED BY		TITLE 2.125" IMS SEAL
SCALE 1:1	DWG NO	REV 00

ed Conditions in order to separate the Liquid and Solids.

er to Filter the Liquid and hold the Solid Particles under the Process of  
lates.

### Feed Pump 2



#### Properties and Advantages:

- Also Known as Dynamic Sealing Arrangements.
- No seal water required.
- Can pump up to 50 to 60% slurry and solid handling without much leakages which is there in normal gland pack pumps.
- Due to less leakage the expensive product loss is much lesser as compared to normal gland packed pumps.
- It comes with a very specialized Non-Asbestos Gland Packing/Grafoil Packing for High Temperature or can also accommodate Single Mechanical Seal.
- No maintenance required as no slurry mechanical seals are used.
- Can be operated on 1440 as well as 2900 rpm.
- Rotating parts can be provided in CD4MCu material for abrasive slurry.
- Integrated One Part assembly of Expeller and Sleeve to avoid Leakage Points.

#### Applications:

- Industrial or Urban Sludge Handling.
- Dyes and Intermediates for Mild Pigment Slurries.
- Pesticides Industry.
- Processing of Copper and Other Metal Ores in Mining Applications.
- Pharmaceutical Industries.
- Aluminium and Zinc Metal Processing Industries.

**Max. Working  
Pressure Upto  
10-12 kg/cm<sup>2</sup>**

### Dynamic Sealing Arrangement

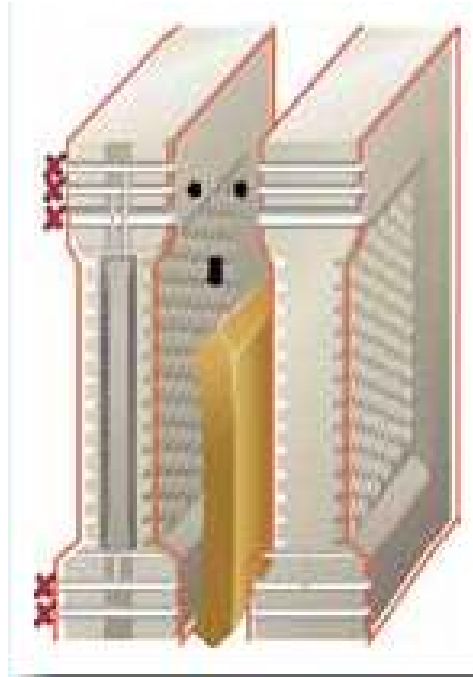


**Stuffing  
Box**

**Expeller  
with  
Sleeve**

**Expeller  
Pressure  
Plate**





### Solutions for Efficient & Effective Filtration

Faster Delivery.

Readily available Inventory for rotating parts.

Less breakdown & down time.

Contact Us for On-site trial, anywhere in India.



**Fluorolined  
Equipment Pvt.Ltd** <sup>TM</sup>



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