

## fluent<sup>®</sup> filtration systems

Filtration Systems That Ensure Clean Oil Always....



**Get A Free Filtration Audit**  
To Find Out How Much Your Organization  
Could Save By Maintaining Oil Quality.  
For more info Call +91 8888 8617 82  
Visit [www.vatsfilters.com](http://www.vatsfilters.com)



Hydraulics



Power



Injection Molding



Petroleum



Automotive



Process Oil



Bearings



Engineering



Mobile Hydraulics



Marine



Water



Industrial Solvents

### Industries We Serve

Our Proven Solutions Have Made Processes More Efficient, Resulting In Increased Productivity & Profits For Our Clients.



Metal Processing

[www.vatsfilters.com](http://www.vatsfilters.com)



An ISO 9001:2008 Company

**VATS FILTRATION TECHNOLOGIES PVT. LTD.**

*Initiatives & Solutions for Industries, Globally*



Green Environment through Filtration and Separation Solutions, Globally

# fluent<sup>®</sup> pro

## For High Accuracy Hydraulic Applications

Recommended For Systems With Servo Hydraulics



Filtration Systems That Deliver Clean Oil To Your Systems and Processes

### KEY FEATURES

Delivers Oil Quality: Particulate < NAS 4 (ISO 15/13/10) and moisture < 200 ppm

Industries: Steel, Metal, Automotive, Forging and Casting, Plastics, Marine and Others

“Fluent” reduces the downtime & maintenance cost by more than 80%

User Defined Configurations Available: Ask for More Information.

Note 1: Expected life of filter for maintaining oil cleanliness is approximately one year.

Note 2: Moisture <50ppm option available.

# fluent<sup>®</sup> power

## Filtrations Systems For the Power Sector

Zero Downtime for Governing and Lubricating Systems



### KEY FEATURES

Approved By BHEL, NTPC, TATA POWER, INDIAN OIL CORPORATION, MAHAGENCO and Others

Delivers Oil Quality: Particulate < NAS 4 (ISO 15/13/10) and Moisture < 200 ppm, Varnish Removal and Control.

For Governing and Lubricating Oil (FRF, Synthetic, Mineral and Others).

Industries: Thermal (Gas and Coal), Hydro, Wind, Nuclear and Others.

# fluent<sup>®</sup> ultra

## Filtration Systems For Moderate Hydraulic Applications

Recommended For Systems With Proportional Hydraulics

### KEY FEATURES

Delivers Oil Quality: Particulate < NAS 7 (ISO 17/15/13) and Moisture < 500 ppm

For Moderate Systems with Proportional Valve in Industrial Hydraulics and High Pressure Hydraulics

Industries: Auto, Auto Ancillaries, Plastics and General Hydraulics



“Fluent” reduces the downtime & maintenance cost by more than 80%

Note 1: Expected life of filters for dedicated use for maintaining oil quality is more than one year

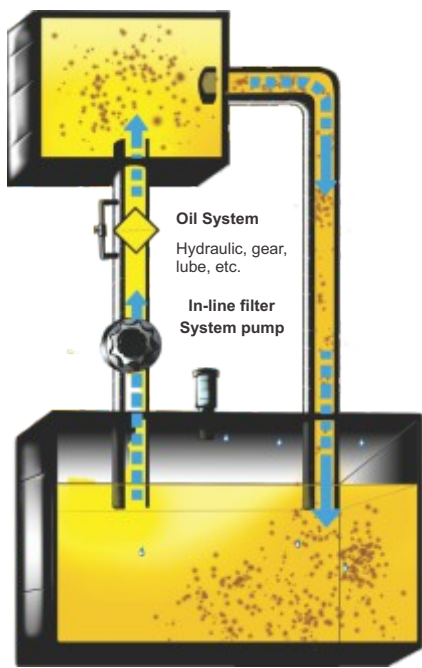
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# Comparative Media Performance



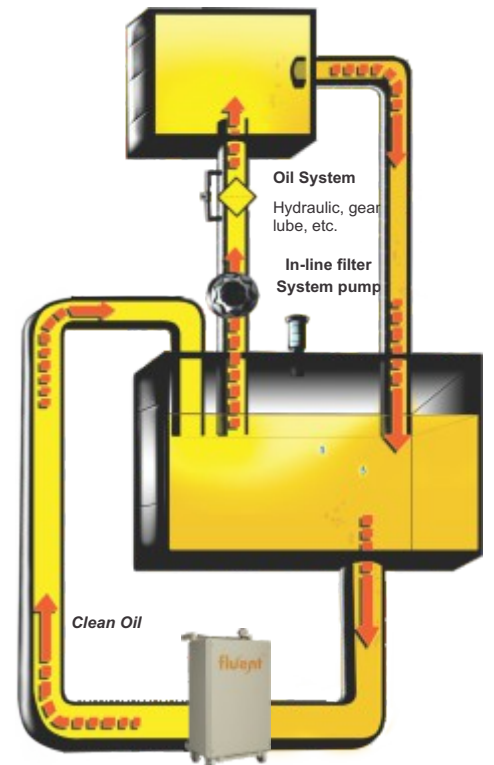
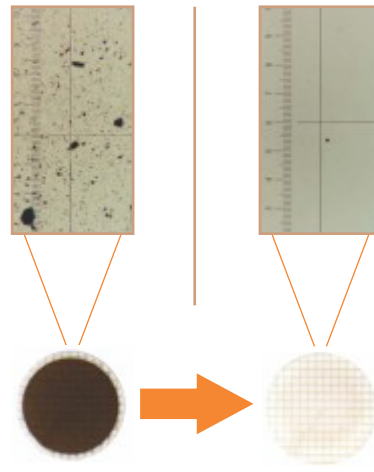
Media Properties	Glass Fiber Cartridge	Electrostatic	Paper Wound	Centrifuge	Fluent with "Lucida" media
Cleanliness	Excellent < NAS 4	NAS 7	NAS 8	NAS 10	Excellent < NAS 4
Water Removal	Does Not Remove	Can't work with moisture	Possible by consuming media	Free Moisture Separation Possible	Maintains dissolve moisture < 200 ppm
Viscosity Range	0-600 cst	0-200 cst	0-100 cst	0-100 cst	0-1000 cst
Mineral Oil	Yes	Yes	Yes	Yes	Yes For All Fluids With Same Element
Glycol-Water, phosphate ester	Possible with same element	Does not work	Can't use same element	Possible	
Dirt Holding Capacity	Very Low	Moderate	Moderate	NA	Very High
Operating Cost	Very High	Moderate	Moderate	High	Very Low
Capital Cost	Low	Moderate	Moderate	High	Moderate
Overall Performance	Good	Average	Average	Average	Excellent

## Effectiveness of Clean Oil



>NAS 12 Before Filtration | ISO 22/19/16

### Patch Test Results



<NAS 4 After Filtration | ISO 15/13/10

### Generic Filtration / No Filtration

NAS 1638-01/1964					
	No. of Particles in 100ml				
	5 - 15 μ	15 - 25 μ	25 - 50 μ	50 - 100 μ	>100 μ
0	250	44	8	2	0
1	500	89	16	3	1
2	1000	178	32	6	1
3	2000	356	63	11	2
4	4000	712	126	22	4
5	8000	1425	253	45	8
6	16000	2850	506	90	16
7	32000	5700	1012	180	32
8	64000	11400	2025	360	64
9	128000	22800	4050	720	128
10	256000	45600	8100	1440	256
11	512000	91000	16200	2880	512
12	1024000	182000	32400	5760	1024

### With Fluent Filtration Systems

ISO 4406 -1987/1999				
	No. of Particles In 100ml	2 μ / 4 μ	5 μ / 6 μ	15 μ / 14 μ
		ISO 15/13/10 ISO 22/19/16		
10	500			10
11	1000			
12	2000			
13	4000		13	
14	8000			
15	16000	15		
16	32000			16
17	64000			
18	130000			
19	250000		19	
20	500000			
21	1000000			
22	2000000	22		



# fluent<sup>®</sup> plus

## Filtration Systems | Mobile and Small Volume Hydraulics

### KEY FEATURES

Delivers Oil Quality: Particulate < NAS 7  
Moisture < 500 ppm \*\*

Application - Mobile Equipments like Earth Movers, Mining Equipments (SDL, UDM and Others), CNC Machines, Power Press, Plastic Molding and Others.

Note: Expected life of filter for maintaining oil cleanliness is approximately one year  
\*\* Moisture Removal / Control available as an additional option  
“Fluent” reduces the downtime & maintenance cost by more than 80%



# fluent<sup>®</sup> regen

## Regenerative Filtration Systems For Process Oils

### KEY FEATURES

Maintains Oil Quality as good as new all the time with regenerable elements for quality Improvement maintaining desired PPM levels and **brings systems to a state of zero replenishment.**  
**No Consumables Cost.**  
Get an Oil Audit Done to Get a Definitive ROI.

Suitable For Honing Oil, Lapping Oil, Grinding Oil, Neat Cutting Oil and Others.

Application - Automobile, Auto Ancillaries, Mechanical processing and Others.

# fluent<sup>®</sup> total

## Custom Made Filtration Solutions



### KEY FEATURES

Maintains Oil Quality better than virgin oil resulting in Quality Improvement, maintaining desired NAS levels and **brings systems to a state of zero replenishment.**  
Get an Oil Audit Done to Get a Definitive ROI.



**Suitable For**  
Honing Oil, Lapping Oil, Grinding Oil, Testing Rig Oil, Anti Rust Oil, Dewatering Oil and Others.

**Application**  
Automobile, Auto Ancillaries, Power, Mechanical and for all Industries Using Oil.

## Filtration Cartridges | Bonflow

A Comprehensive Range of Cartridges and Media for Filtration Systems.

Now Save by Getting a Vats Filters  
Also Available as equivalents of all major brands like CUNO, PALL, MILLIPORE and Others.

### Construction Of Cartridge

Resin Bonded Cellulose Melamine.

### Features

- Graded Density Construction.
- Ridged Filters - Consistent Quality, No Particle Unloading.
- Wide Chemical Compatibility.
- Can Withstand upto 120° C.
- 10 Inch to 40 Inch Length.
- From 50μ to <1μ.

Our R&D wing will be glad to work with your team on specific requirements in your concerned areas.

### Applications

Transformer Oil, Neat Cutting Oil (Honing |Grinding | etc.), Synthetic Oil, Transmission Oil, Test Rig Oil, Lubricating Oil, Industrial Solvents, Petroleum Fuels, Water, Water Based Emulsions and Others.

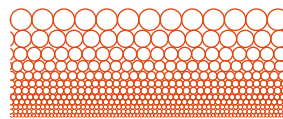
### Other Range

PP Spun | PP Wound | PP Pleated | Bag Filter | Filter Housings



### Technology Advantage

Vats "Bonflow / Lucida"  
Graded Density media  
Very High Dirt  
Holding Capacity



Surface Filter  
(Glass Fiber Pleated Media)  
Very low dirt holding capacity



## fluent® Selection Chart

Models	Fluent Pro	Fluent Plus / Fluent Ultra	Fluent Power
Applications	Hydraulic	Hydraulic / Lubricating	Governing / Lubricating
Features →	< NAS 4 (ISO 15/13/10) < 200 ppm	< NAS 7 (ISO 18/16/13) < 500 PPM	< NAS 4 (ISO 15/13/10) < 200 ppm
Tank Capacity - lit ↓			
50 - 250	PRO PLUS 11	PLUS 11	
251 - 500	PRO PLUS 22	PLUS 22	
501 - 750	PRO 03	ULTRA 10	
751 - 1000	PRO 06	ULTRA 25	
1001 - 1500		ULTRA 50	
1501 - 2000	PRO 10	ULTRA 75	
2001 - 2500		ULTRA 100	
2501 - 3000	PRO 20	ULTRA 100	POWER 200
3001 - 4000		ULTRA 200	POWER 400
4001 - 5000	PRO 40	ULTRA 400	POWER 800
5001 - 7500		ULTRA 400	POWER 1200
7501 - 10000	PRO 80	ULTRA 400	POWER 1600
10001 - 15000		ULTRA 400	POWER 2400
15001 - 20000	PRO 160	ULTRA 400	POWER 3200
20001 - 30000		ULTRA 400	
30001 - 45000			
45001 - 60000			
60001 - 90000			
90001 - 120000			

\* Moisture Separation Available For Selected Applications Only.

\*\* Any Higher Or Lower Specifications, Volume Equipment Available On Request.

### Patch Test Kit



### Particle Size Counter (PC-01)



Affordable product with universal sensor compatibility

NAS | ISO | SAE standard printout available.

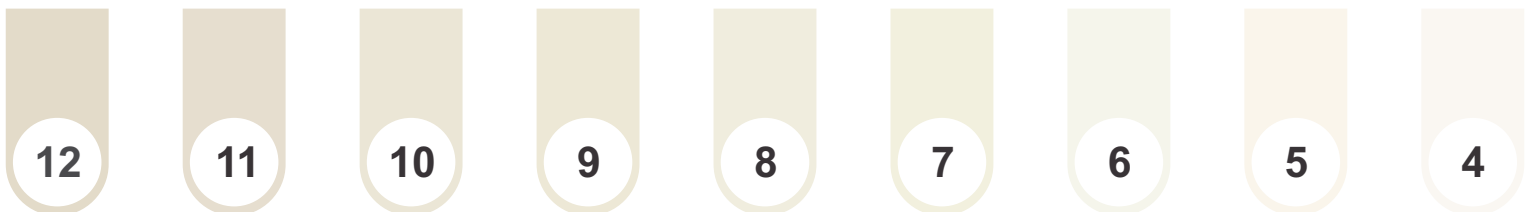
Visual display of reading

Usb data transfer

Storage facility for 1000 readings.

Password protection available.

**NAS LEVELS** These Are Indicative, Actual Results May Visually Vary **Basis: 10ml of Oil + 20ml Solvent on 25mm 0.8µ Filter Paper**



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Channel Partners | Area Representatives

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