VORTI-SIV®

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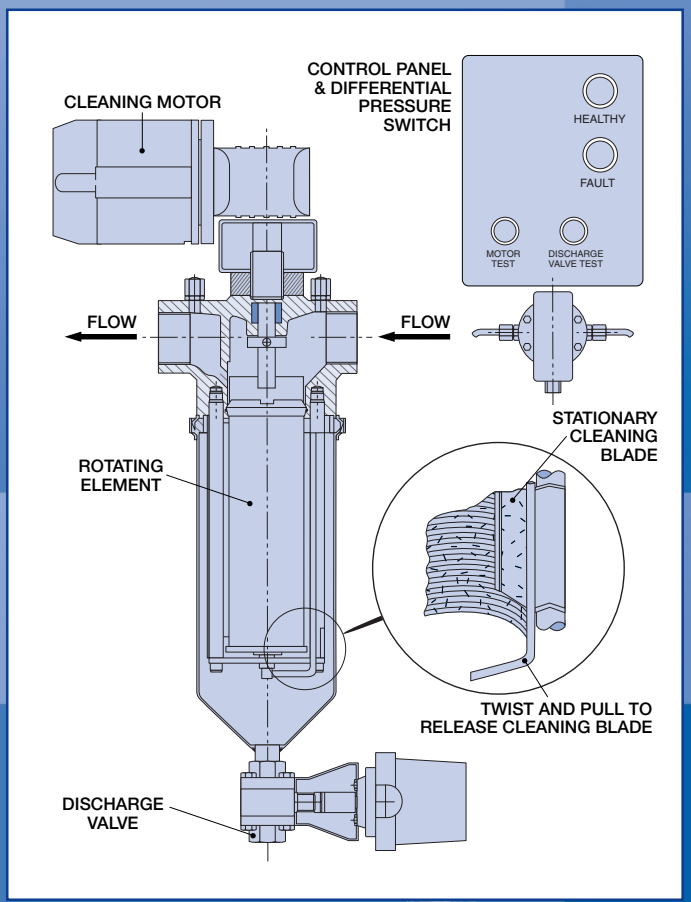
LP Type Self-Cleaning Filtration Systems

ADVANTAGES:

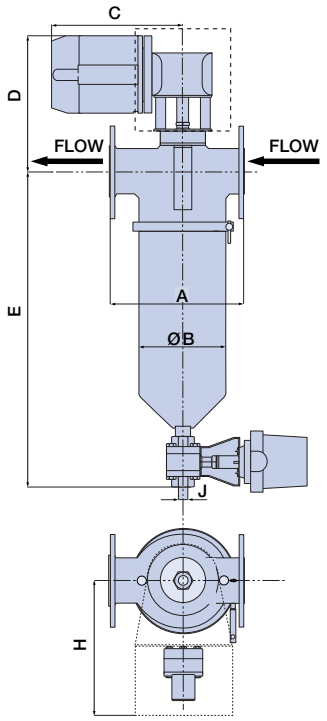
- Element cleaning without stopping or disrupting the fluid flow. No loss of fluid or pressure
- Fully enclosed system:
  - NO operator contact with the fluid - making it ideal for hazardous or sensitive applications
  - NO externally introduced contamination problems - increases confidence in the quality of the filtered product
- Sanitary grade/CIP
- Suitable for fluids of all viscosities
- Simple manual operation
- Available with stainless steel head and vessel or optional cast iron head
- Optional heating jacket
- Automation options:
  - Eliminates operator involvement
  - Optimizes the cleaning frequency
  - Operation status indicator on control panel
  - Remote operation status indicator available
- Fully sealed system for exposed and severe environments
- Working pressures from 14 bar (200 lb/in^2 for the lower pressure range) up to 50 bar (725 lb/in^2 for the high pressure range)
- Working temperatures up to 260° C (500° F)
- Choice of stainless steel, Teflon, UHMW or plastic cleaning blades
- Reinforced stainless steel elements with filtration ratings from 25 micron to 6mm (0.001” to 1/4”) wedgewire or mesh
- Minimal maintenance costs



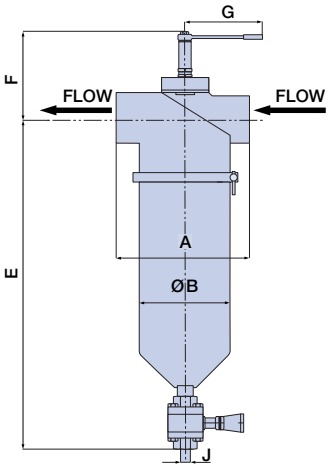
Automated
LPH Self-Clean Filter



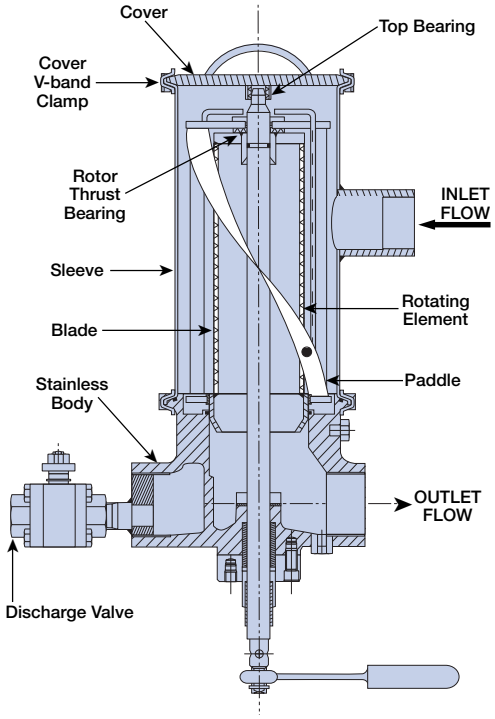
LP FLANGED FILTER, shown automated



LP THREADED FILTER, shown for manual operation



LPH FILTER, shown automated



The HP Range:

The High Pressure self-clean filter is dimensionally and functionally similar to the Low Pressure self-clean filter but has a higher strength bowl retained by a reinforced VEE-type clamp. The High Pressure self-clean filter retains all the advantages of the Low Pressure self-clean filter.

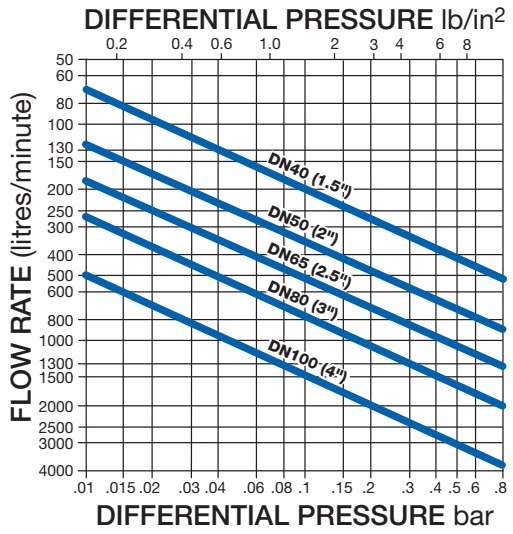
The maximum working pressure of the High Pressure self-clean filter is:

- 50 bar for steel and stainless steel filters
- 20 bar for cast iron filters

Viscosity (centistrokes)	Filtration Rating (microns)				
	50	100	200	500	1000
1	1.5	1.2	1.13	1.08	1.0
50	3.6	2.75	2.4	2.2	1.75
200	5	3.67	3.16	2.84	2.1
500	6.2	4.5	3.8	3.35	2.4
1000	7.6	6	5	3.9	3.6
5000	34	27	22	18	17

Flow Chart for Blade Type Self-Clean Filters:

The chart for water (1cSt) flowing through a filter with an element coarser than 1000 microns. Multiply the pressure drop by the following factors for different element micron ratings and different viscosities.



BORE SIZE	Flanged Filters	Threaded Filters	Common Dimensions (inches)								Mass (dry) kg			
											Flanged		Threaded	
	A	A	B	C	D	E	F	G	H	J	Manual	Auto	Manual	Auto
DN40 DN50 DN65	10 5/8	8 3/4	6 3/16	9 5/16	9 1/2	21 7/8	7	7 5/16	9 7/8	3/4	24	35	18	29
DN80	11 7/8	-	7 1/2	9 5/16	10	25 5/8	7 1/2	7 5/16	9 7/8	1 1/2	40	54	-	-
DN100	23 1/8	-	7 1/2	13 3/4	10	25 5/8	7 1/2	7 5/16	14 3/8	1 1/2	218	240	-	-

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