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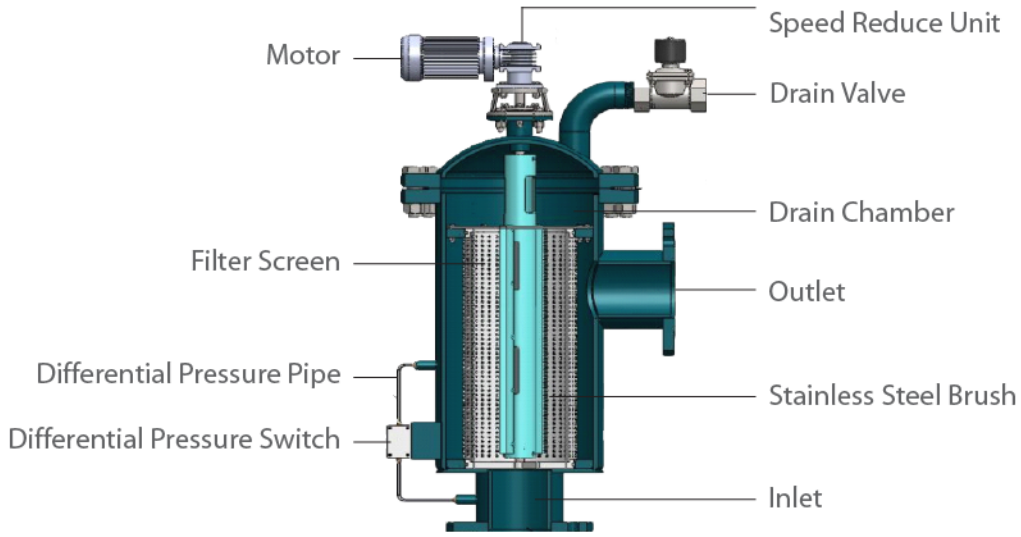
RBVY SERIES Automatic Cleaning Filtration System



MODEL	IN/OUTLET	FLOW RATE M3/HR	POWER (W)	MINIMUM PRESSURE (Mpa)	MAXIMUM PRESSURE (Mpa)
RBVY-1	DN25	4	90	0.1	1.6
RBVY-2	DN40	10	90	0.1	1.6
RBVY-3	DN50	16	180	0.1	1.6
RBVY-4	DN80	45	180	0.1	1.6
RBVY-5	DN100	65	250	0.1	1.6
RBVY-6	DN125	100	250	0.1	1.6
RBVY-7	DN150	150	250	0.1	1.6
RBVY-8	DN200	230	250	0.1	1.6
RBVY-9	DN250	410	550	0.1	1.6
RBVY-10	DN300	590	550	0.1	1.6
RBVY-11	DN350	800	550	0.1	1.6
RBVY-12	DN400	1050	750	0.1	1.6
RBVY-13	DN450	1320	750	0.1	1.6
RBVY-14	DN500	1600	1100	0.1	1.6
RBVY-15	DN600	2350	1100	0.1	1.6

RBVY - 6 - 5 - AF - 304 - 304

Series	Model	In/Outlet	Connection Type	Housing Material	Strainer Material
RBVY	1 to 15	5 = 5″ 8 = 8″	AF = ANSI Flange JF = JIS Flange DF = DIN Flange BF = BS Flange	304 = SUS 304 316L = SUS 316L CS = Carbon steel	304 = SUS 304 316L = SUS 316L

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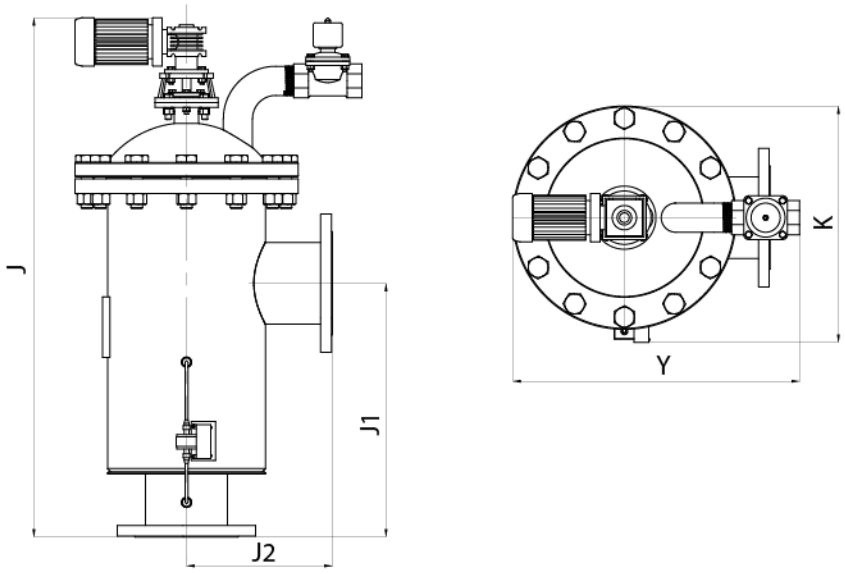
Driven	: PCB Control
Filtration	: Single layer strainer
Cleaning	: SS Brush
Control	: Differential pressure & timer
Filtration Rating	: 100 ~ 3000 micron
Cleaning Time	: 10 ~ 60 seconds
Pressure Lost	: Less than 0.018MPa
Max. Temperature	: 95 degree C
Max. Pressure	: 1.6 MPa
Housing Material	: Carbon steel with inner epoxy coating, SS 304, SS 316L
Filter Screen Material	: SS 304, SS 316L
Seal Material	: Graphite



MODEL	IN/OUTLET	J (mm)	J1 (mm)	J2 (mm)	Y (mm)	K (mm)	Weight (kg)
RBVY-1	DN25	760	300	235	450	400	48
RBVY-2	DN40	760	300	235	450	400	52
RBVY-3	DN50	760	300	235	450	400	55
RBVY-4	DN80	760	300	235	450	400	73
RBVY-5	DN100	1070	530	300	590	520	106
RBVY-6	DN125	1070	530	300	590	520	137
RBVY-7	DN150	1070	530	300	590	520	154
RBVY-8	DN200	1300	680	320	590	487	248
RBVY-9	DN250	1550	850	380	720	610	360
RBVY-10	DN300	1826	942	510	820	805	486
RBVY-11	DN350	2100	970	530	820	936	653
RBVY-12	DN400	2360	1239	580	1098	1111	765
RBVY-13	DN450	2632	1389	700	1199	1213	814
RBVY-14	DN500	2919	1547	730	1288	1250	920
RBVY-15	DN600	3510	1865	830	1458	1440	1038

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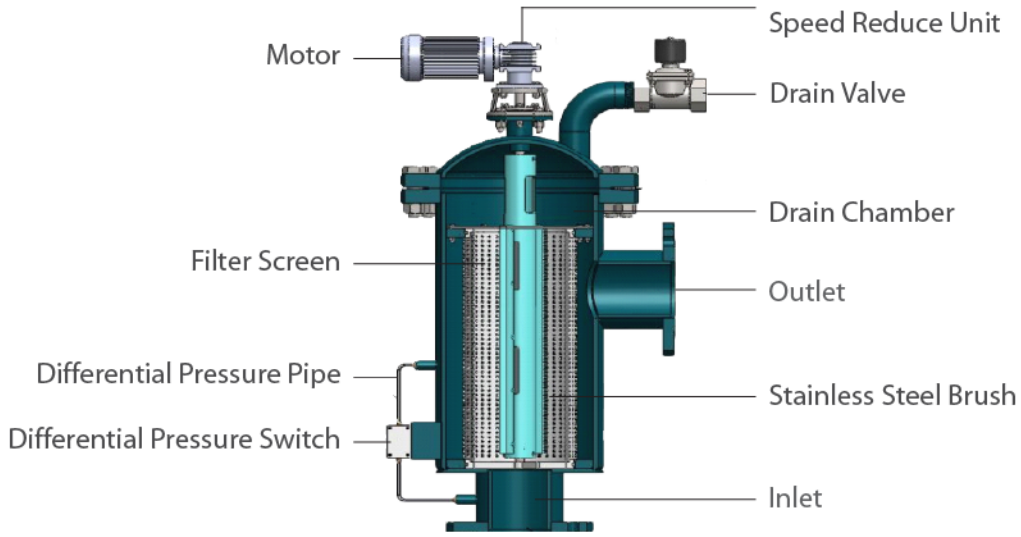

Filtration Process

Water flows in from the inlet, fully fill in the internal of the filter screen and drain chamber while the drain valve is closed. Water starts going through the filter screen from internal to external. Filtered water will flow out from the outlet. During the Filtration Process, inlet pressure (bottom) become higher and higher while outlet pressure (top) become lower and lower. When differential pressure between inlet and outlet has built up to 2 bar or the timer has achieved the setting time, the Cleaning Process will be started.

Cleaning Process

When the drain valve opens, foreign particles inside the filter screen and drain chamber will be flushed out through the drain valve. After few seconds later, the motor starts kicking in through the speed reducer unit, the stainless steel brush will start to turn into the filter screen, brushing the internal part of the filter screen. During the cleaning process, foreign particles sticking on the internal part of the screen will be flushed out through the drain valve.

Filtration Process Again

After 60 seconds of the cleaning process, the brushing motor will cease, the drain valve will close and follow by the filtration will resume its operation.