

FILTRAN

FILTRATION TECHNOLOGIES



AUTOMATIC BACKWASHING FILTERS

FILTRATION NOTES

SOLIS FILTER

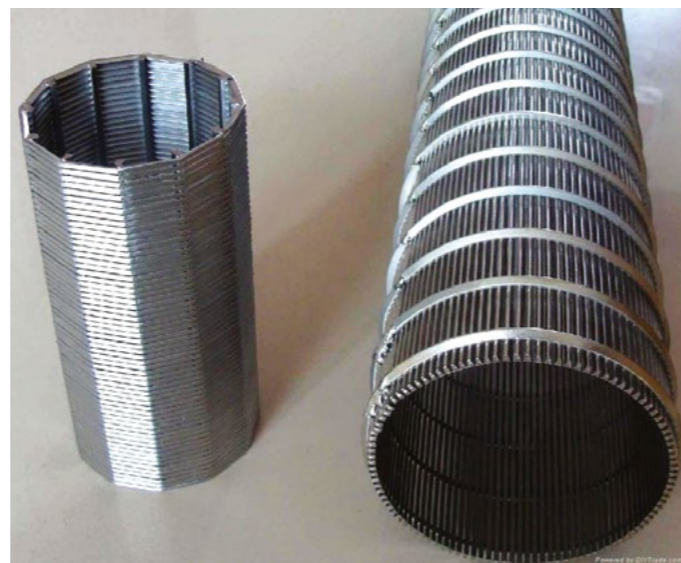
INDUSTRIAL TYPE – CLEANING COLLECTOR WITH REDUCTOR
10 - 1000 MICRONS

WEDGE WIRE FILTER ELEMENT- SYSTEM WITH
BACK-WASHING

FILTER OPERATING SYSTEM

Filters of SOLIS series have WEDGE WIRE FILTER structure. Particulates intended to be resolved from water filtered out from filter fasten on inner surface of the filter and form pressure difference between input and output of filter. When filter comes to pre-set pressure level by means of pressure difference sensor & switch, filter waste valve opens. Reductor system on filter connects two ends of fine filter shaft to waste collector, and inside of filter opens to atmospheric environment.

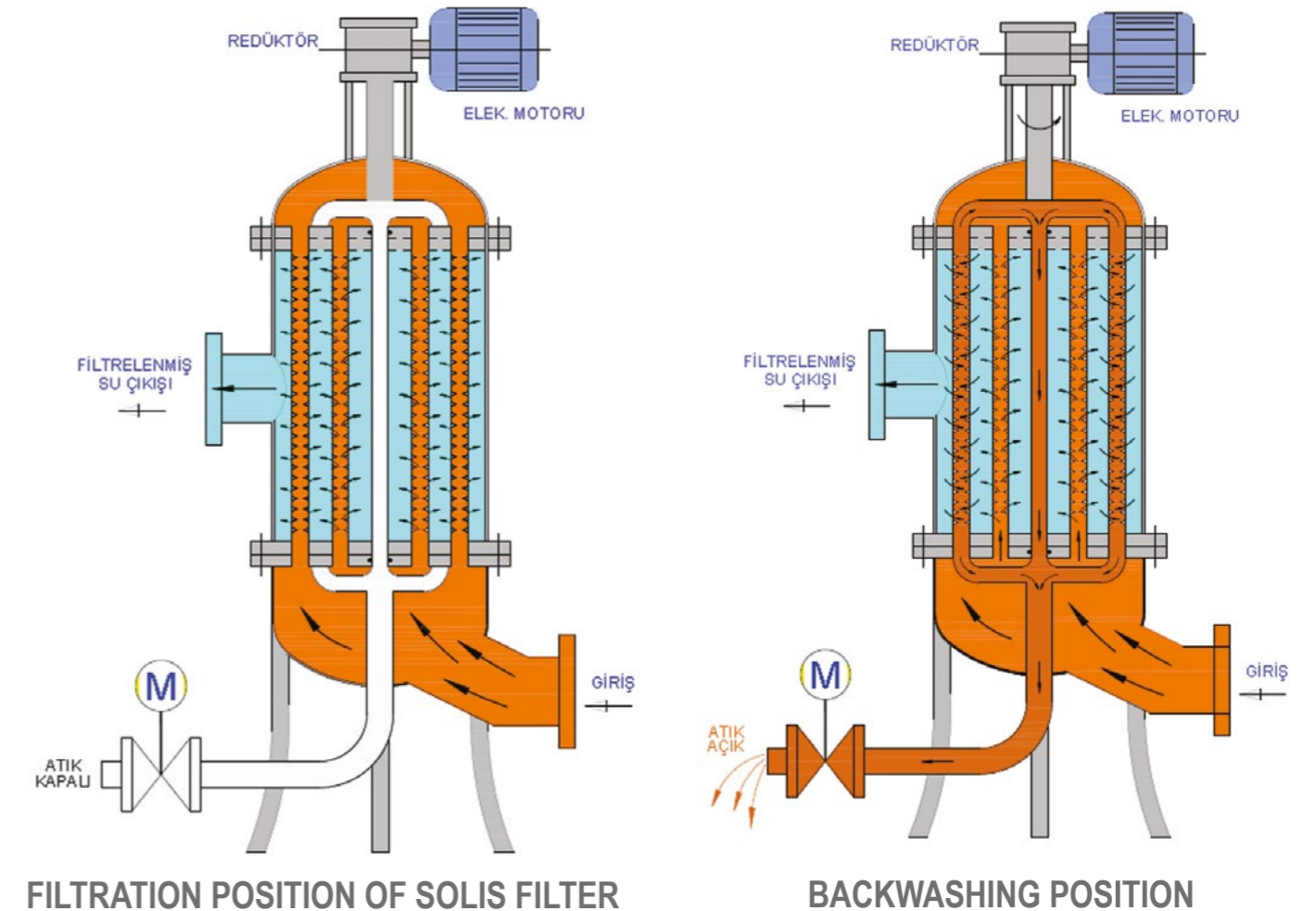
By this way, water filtered by pressured and other filter columns in filter body reversely flows to filter column to be cleaned, and then provide to clean pollution of filter column completely. Due to motor & reductor, collector rotates and all filter columns are cleaned individually or two-by-two according to model. Inner surface of filter is cleaned with 100% efficiency due to this back flow. Backwashing operation lasts 20-200 secs according to filter model.



CONTROL & AUTOMATION SPECIFICATIONS

By means of FILTRAN production control board;

- FILTER CAN MAKE BACKWASHING PERIODICALLY DEPENDING ON PRESSURE DIFFERENCE AND TIME, OR MANUALLY THROUGH BOARD.
- FILTER'S BACKWASHING NUMBERS ARE READ ON FILTER BOARD. IF NECESSARY, NUMBERS CAN BE SET TO ZERO.
- IF SEQUENTIAL WASHING IS MADE WITH NUMBERS HIGHER THAN THOSE SET, FREQUENT WASHING ALARM MAY BE GIVEN.
- IN SENSITIVE WATER INSTALLATIONS, AN AUTOMATIC BYPASS VALVE CAN BE PLACED AND THIS VALVE CAN BE OPENED FOR FILTER PROBLEMS.



ADVANTAGES OF SOLIS FILTER

- FILTRATION AT HIGHER FLOW RATE ACCORDING TO FILTER STRUCTURES IN SAME SIZE BY MEANS OF WEDGE WIRE FILTER ELEMENT;
- 100% BACK WASHING PERFORMANCE BY MEANS OF BACK FLOW CLEANING SYSTEM;
- WATER PASS CONTINUES WHILE FILTER MAKES BACKWASHING,
- SPECIAL DESIGN WASTE COLLECTOR, REDUCTOR & MOTOR AND WASTE LINE STRUCTURE,
- STAINLESS STEEL OR CARBON STEEL BODY STRUCTURE,
- STAINLESS STEEL WEDGE WIRE FILTER ELEMENT,
- WE HAVE SPECIAL PRODUCTION OR TECHNICAL SOLUTIONS FOR YOUR HIGH PRESSURE AND HIGH/LOW PRESSURE REQUIREMENTS.
- STANDARD PRODUCTION: 800C - 10 BARS,
- IT PROVIDES HIGH PERFORMANCE FOR HIGH FLOW RATES.
- ONE FILTER COLUMN HAS 5200 CM² SURFACE AREA AND HIGH FILTRATION. EACH MODULE MAKES 200M³/H WATER APPROXIMATELY.

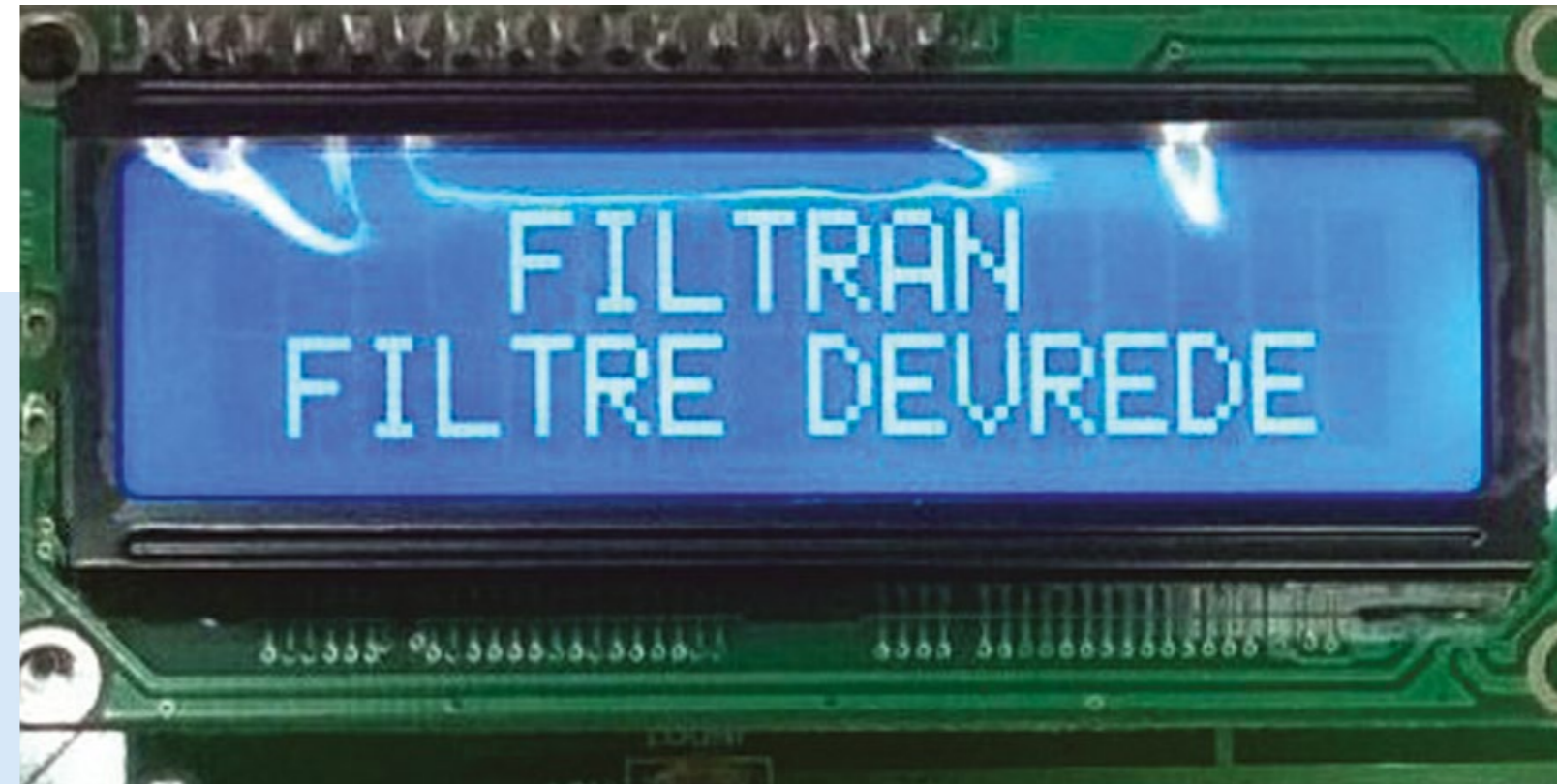
PRODUCT BRANDS OF FILTRAN AUTOMATIC FILTER:

DOMINUS RERUM MIRACULM FAMILIAS SOLIS LACTEVIA SIDERIA



DOMINUS FILTRE

INDUSTRIAL TYPE – CLEANING COLLECTOR WITH REDUCTOR
20 - 1000 MICRONS
SCREEN FILTER ELEMENT- SYSTEM WITH VACUUM
CLEANING



FILTER OPERATING SYSTEM

Filters of Dominus series have the structure of woven-wire screen. Particulates filtrated by filter and intended to be resolved from water fasten on inner surface of filter and form pressure difference between input and output of filter. When filter comes to pre-set different pressure level by means of pressure difference & switch, filter waste valve opens. By this way, ends of our firm special design nozzle at the end of waste collector open to atmospheric environment. When pressure water in filter moves to atmospheric environment from nozzle end, a strong vacuum forms on filter wall. As collector to which nozzles are connected by means of motor & reductor rotates, all inner surface of filter is cleaned with 100% efficiency by this vacuum. Backwashing operation lasts 10-50 secs according to filter model.

CONTROL & AUTOMATION SPECIFICATIONS

BY MEANS OF FILTRATION PRODUCTION CONTROL BOARD;

- FILTER CAN MAKE BACKWASHING PERIODICALLY ACCORDING TO PRESSURE AND TIME, OR MANUALLY THROUGH BOARD.
- FILTER BACKWASHING NUMBERS ARE READ ON FILTER BOARD. IF NECESSARY, NUMBERS CAN BE SET TO ZERO.
- IF SEQUENTIAL WASHING IS MADE WITH NUMBERS HIGHER THAN THOSE SET, FREQUENT WASHING ALARM MAY BE GIVEN.
- IN SENSITIVE WATER INSTALLATIONS, AN AUTOMATIC BYPASS VALVE CAN BE PLACED AND THIS VALVE CAN BE OPENED FOR FILTER PROBLEMS.

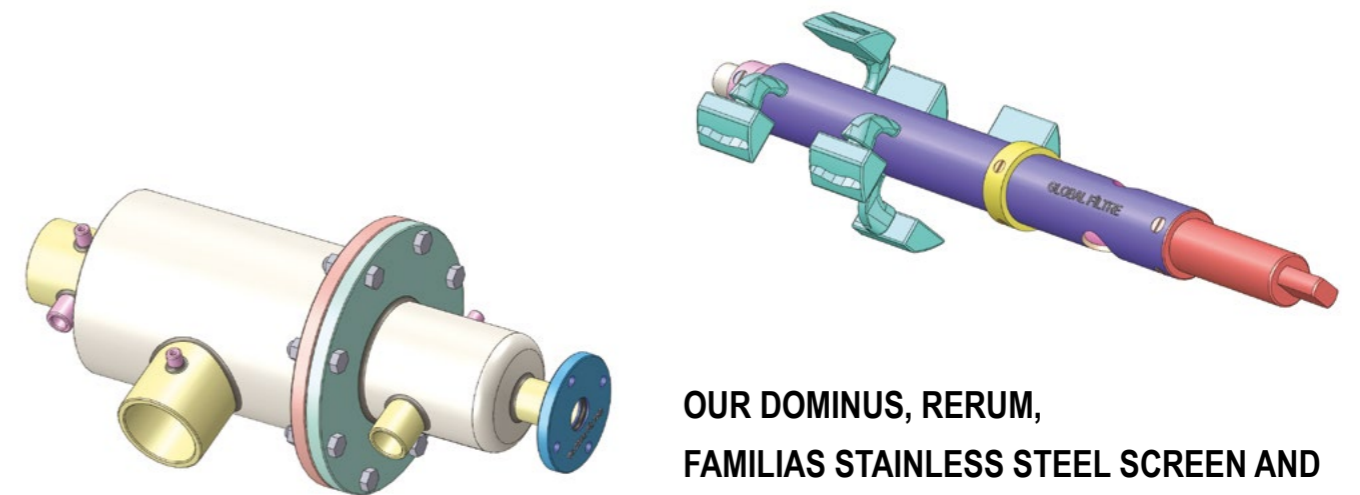
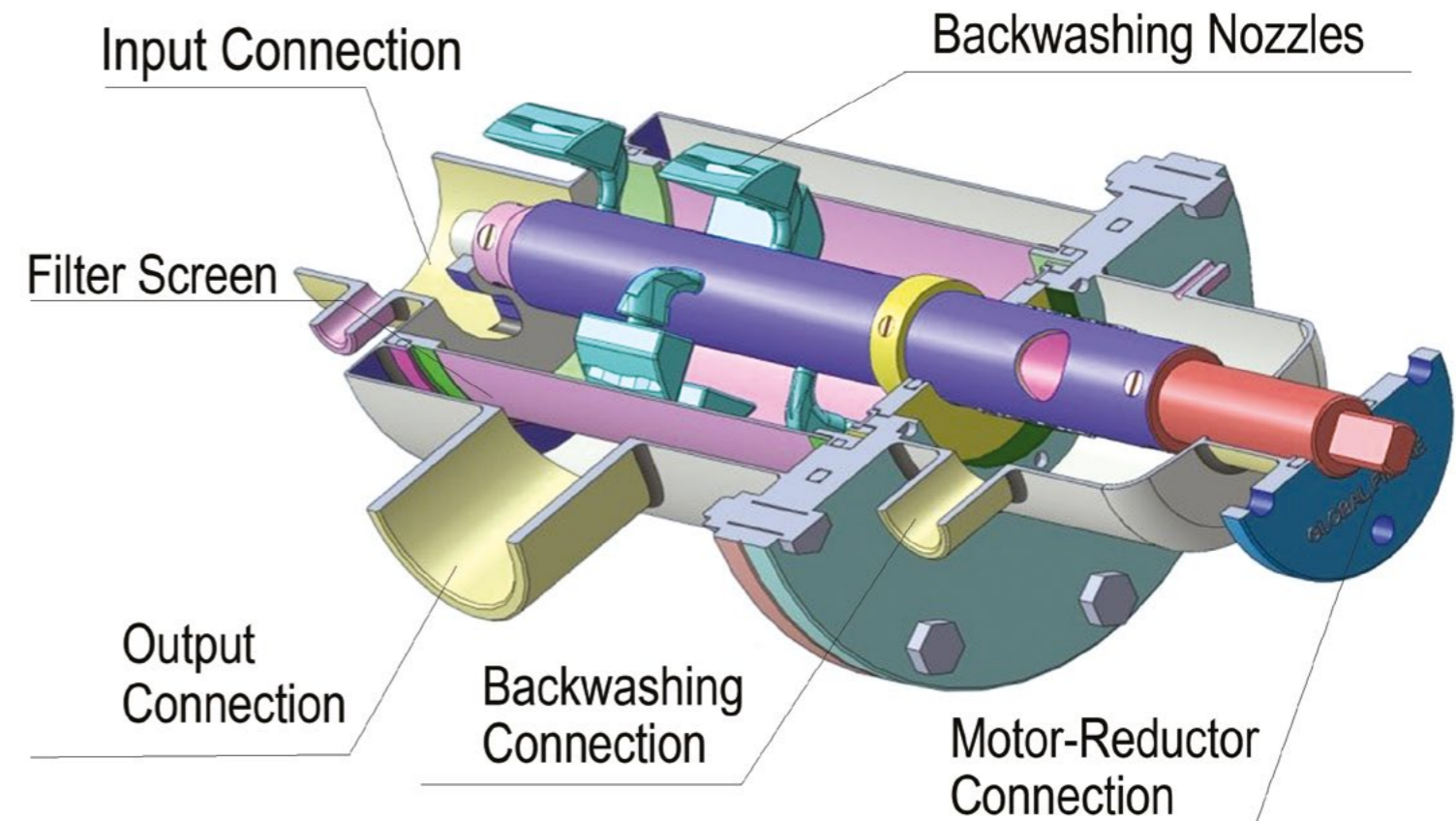
ADVANTAGES OF DOMINUS FILTER

- FILTRATION AT HIGHER FLOW RATE WITH THE FILTER IN SAME SIZE BY MEANS OF POLYESTER FILTER ELEMENT;
- 100% BACKWASHING PERFORMANCE BY MEANS OF ROTATION OF WASTE COLLECTOR WITH REDUCTOR,
- WATER PASS CONTINUES WHILE FILTER MAKES BACKWASHING,
- SPECIAL DESIGN POLLUTION SUCTION NOZZLES,
- STAINLESS STEEL BODY STRUCTURE,
- POLYESTER OR STAINLESS STEEL FILTER ELEMENT,
- WE HAVE SPECIAL PRODUCTION AND TECHNICAL SOLUTIONS FOR YOUR HIGH TEMPERATURE AND HIGH & LOW PRESSURE REQUIREMENTS.
- FILTER ELEMENT WITH COMPLETELY USED FILTER AREA BY MEANS OF SPECIAL DESIGN FILTER STRUCTURE,
- FILTER FLOW RATES GIVEN ON CATALOGUE ARE AVAILABLE FOR ≤ 1 NTU FILTRATION HIGHER THAN 120 MICRONS.

CALCULATIONS AND WATER ANALYSES MUST BE CARRIED OUT FOR DIRTY WATERS OR FILTRATION IN LOWER MICRON. OUR COMPANY CAN CARRY OUT TESTS TO GET RIGHT RESULT ON WATERS OF THIS TYPE.

DOMINUS FILTER

INDUSTRIAL TYPE – CLEANING COLLECTOR WITH REDUCTOR
20 - 1000 MICRONS
SCREEN FILTER ELEMENT- SYSTEM WITH VACUUM
CLEANING FILTER STRUCTURE



OUR DOMINUS, RERUM,
FAMILIAS STAINLESS STEEL SCREEN AND
DOMINUS SERIES FILTER BACKWASHING
NOZZLE SYSTEM;

FILTER FIGURE IS EXEMPLARY. IT MAY DIFFER FROM OFFERED FILTER.



DOMINUS SERIES:

D SERIES;

- 1"-2" GEAR, CONNECTED, PLASTIC FILTER BODY.
- SPECIAL DESIGN FOR LOW FLOW RATE AND PIPE DIAMETER,
- NOZZLE SYSTEM SPECIAL FOR THIS SERIES FOR POLLUTION LAYER SUCTION.
- STANDARD PRODUCTION: 800C - 8 BARS

DO SERIES;

- STAINLESS STEEL BODY BETWEEN 2" -12",
- SPECIAL DESIGN POLLUTION SUCTION NOZZLES,
- OPPORTUNITY OF FILTRATION AT HIGH FLOW RATE BY POLYESTER FILTER ELEMENT,
- DESIGN AND SPECIAL SOLUTIONS FOR INDUSTRIAL PLANTS,
- MODELS WITH PRE-FILTRATION ARE AVAILABLE ON ROUGHING FILTERS,
- COARSE GRID IS CLEANED DEPENDING ON TIME OR PRESSURE DIFFERENCE.
- STANDARD PRODUCTION: 800C TEMPERATURE – 2 BARS (AT LEAST) IN BACKWASHING – OPERATING PRESSURE:10 BARS (AT LEAST)
- MODELS WITH ROUGHING FILTERS SHOULD BE PREFERRED FOR SURFACE WATERS CONTAINING BIG PARTICLES SUCH AS NYLON BAG, FABRIC & BATTEN, MOSS, MUSSEL SHELL, FISH, JELLYFISH.
- MODELS WITH ROUGHING FILTER ARE SPECIFIED WITH K-LETTER AT THE END OF SERIAL NUMBER.



DOM SERIES;

- STAINLESS OR CARBON STEEL BODY BETWEEN 14" -24",
- A GREAT NUMBER OF DO SERIES FILTER ELEMENT IN A SINGLE BODY PROVIDES FILTRATION AT HIGH FLOW RATE,
- IT REQUIRES LESS VALVE CONNECTION THAN COMPETING FILTER BRANDS BY THIS MEANS,
- INITIAL INVESTMENT COST IS LOWER THAN COMPETING BRANDS,
- IT TAKES UP LESS SPACE THAN COMPETING FILTERS AND PREVENTS PLACE PROBLEMS IN BUSINESS.
- PROVIDES 100% BACKWASHING PERFORMANCE BY MEANS OF SPECIAL DESIGN POLLUTION SUCTION NOZZLES AND ROTATION WITH REDUCTOR,
- PROVIDES OPPORTUNITY OF FILTRATION AT FLOW RATE HIGHER THAN COMPETING AND STAINLESS FILTER ELEMENT, BY MEANS OF POLYESTER FILTER ELEMENT,
- STANDARD PRODUCTION: 800C TEMPERATURE – 2 BARS (AT LEAST) IN BACKWASHING – OPERATING PRESSURE: 6 BARS (AT THE MOST)

If there are ≥ 10 ppm lubricant or adhesive particulates such as plastic, rubber, bacteria in water of DOMINUS SERIES filters, they can adhere on filter. In this case, it needs to remove and clean the filter element. To prevent this problem, it will require passing to RERUM SERIES filter group that have spray nozzle and can make chemical washing.

DOMINUS & RERUM & FAMILIAS SERIES FILTER BODIES

Filter element is designed by way that water passes through whole filter element. There are stainless, long life backwashing nozzles in stainless drums.



MIRACULUM FILTER

INDUSTRIAL TYPE - CLEANING COLLECTOR WITH REDUCTOR
1- 50 MICRONS
SCREEN FILTER ELEMENT- SYSTEM WITH JET
SPRAY CLEANING

FILTER OPERATING SYSTEM

MIRACULUM series filters have the structure of woven-wire **POLYESTER** sieve. Particulates filtered and intended to be resolved from water adhere to inner surface of filter and form pressure difference between input and output of filter. When filter comes to pre-set differential pressure level by means of pressure difference sensor & switch, waste valves of filter opens automatically and water in filter discharges. Pressure pump connected to filter cleaning collector activates and powerfully sprays clean mains water or similar clean water to exterior side of filter by **PRESSURE PUMP**. By this way, pollution layer separates from filter surfaced and discharges by waste valve on subpart of filter. As collector to which the nozzles are connected rotates by motor & reductor group, whole exterior surface is cleaned with 100% efficiency by means of this spray cleaning. Backwashing operation lasts 10-50 secs as to filter model. It can be provided to clean the filter with **Chemical Water** by adding chemical tank and necessary additional assemblies in case of need.



ADVANTAGES OF MIRACULUM FILTER

- POSSIBILITY OF FILTRATION IN WATERS CONTAINING PARTICULATES THAT FORM TURBIDITY,
- FILTRATION AT HIGH FLOW RATE BY MEANS OF POLYESTER FILTER ELEMENT,
- CLEANING WHOLE FILTER SURFACE BY MEANS OF ROTATION OF WASTE COLLECTOR WITH REDUCTOR,
- WHILE MAKING BACKWASHING, FILTER MAKES PRESSURE WASHING BY DISCHARGING WATER IN IT,
- POLLUTION LAYER THAT ACCUMULATED ON FILTER SURFACE IS CLEANED 100% BY MEANS OF JET NOZZLES,
- UNIQUE SOLUTION FOR ADHESIVE PARTICULATES IN PLASTIC, PETRO CHEMISTRY, RUBBER INDUSTRY,
- TECHNOLOGY PRODUCT TAKING THE PLACE OF SAND FILTER PROVIDES UNRIVALLED FILTRATION.
- IT REMOVES THE TURBIDITY OF WATER.
- STUDIES OF PLANNING STAGE MUST BE CARRIED OUT,
- STAINLESS STEEL BODY STRUCTURE,



LACTEA VIA FILTER

SURFACE WATER, DEEP-WELL WATER TYPE - AUTOMATIC CLEANING

20 - 300MICRONS

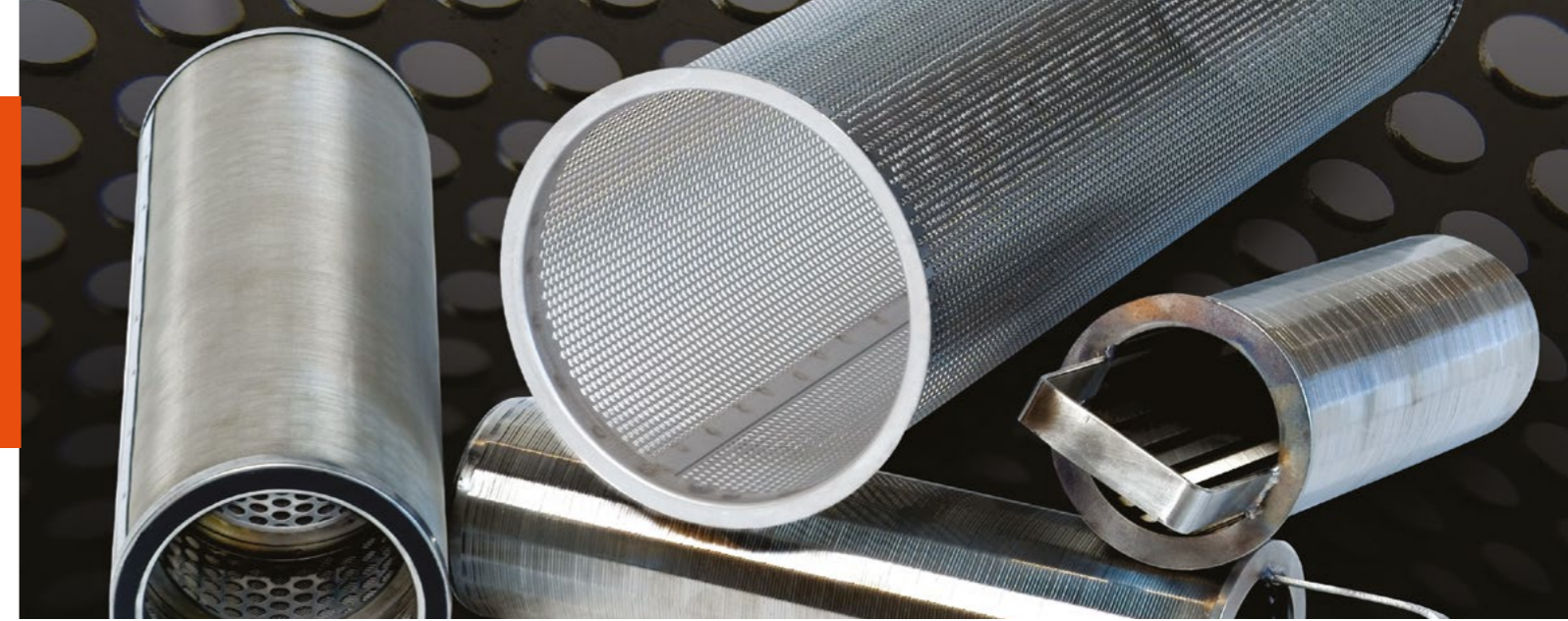
SEPARATOR – PARTICULATE SEPARATION SYSTEM WITH WATER VELOCITY

FILTER OPERATING SYSTEM

LACTEA VIA series filters operates depending on water velocity.

Water flow at the range of filter capacity enters to filter by eccentric pipe connection. When water enters to filter, it reaches to high velocity by means of filter structure, and particulates in water resolve from water.

Blow-off line of filter opens in pre-exercised times depending on time, and then pollution layer that accumulated on subpart of filter is discharged from filter.



ADVANTAGES OF LACTEA VIA FILTERS

- SEPARATING ALL TYPES OF PARTICULATES AT DENSITY HIGHER THAN WATER,
- IDEAL FOR FILTRATION IN WATER CONTAINING HIGH DENSITY OR LARGE PARTICULATES,
- IT CAN BE CONVENIENTLY USED INSTEAD OF SAND FILTER.
- PLANNING STAGE IS VERY IMPORTANT, IT PROVIDES SEPARATION AT HIGH PRODUCTIVITY AS TO WATER VELOCITY CALCULATION.
- SUITABLE SOLUTION FOR FIRST FILTRATION OF SURFACE WATERS SUCH AS SEA, LAKE,
- REMOVING THE TURBIDITY BY SEPARATING THE MATERIALS SUCH AS SILT MUD IN WELL WATERS,
- GETTING HIGH EFFICIENCY IN INDUSTRIAL FACTORIES SUCH AS IRON-STEEL, COPPER PROCESSING, MARBLE INDUSTRY AS PARTICULATES DENSITY IN WATER IS VERY HIGH,
- STAINLESS STEEL BODY STRUCTURE,



RERUM FILTER

INDUSTRIAL TYPE-CLEANING COLLECTOR WITH REDUCTOR

100 - 3000 MICRONS

SCREEN FILTER ELEMENT-SYSTEM WITH BRUSH WASHING

FILTER OPERATING SYSTEM

RERUM series filters have the structure of woven-wire screen.

Particulates intended to be separated from water filtered from filter adhere to inner surface of filter, and form pressure difference between input and output of filter. When filter comes to pre-set differential pressure level by means of pressure differenced sensor & switch, waste valve of filter opens automatically and water in filter discharges. Pressure pump connected to filter cleaning collector activates and powerfully sprays clean mains or similar clean water to inner wall of filter by **PRESSURE PUMP**. Adhesive pollution layer separates from filter surfaced by this way and discharges by waste valve on subpart of filter. As collector to which nozzles are connected rotates by means of motor & reductor group, whole inner surface of filter is cleaned with 100% efficiency by means of this spraying cleaning. Backwashing operation lasts 10-50 secs as to filter model. When needed, filter can be cleaned with **chemical water** by adding chemical tank and necessary additional assembly to system.



FAMILIAS FILTER

INDUSTRIAL TYPE-CLEANING COLLECTOR WITH REDUCTOR

100 - 3000 MICRONS

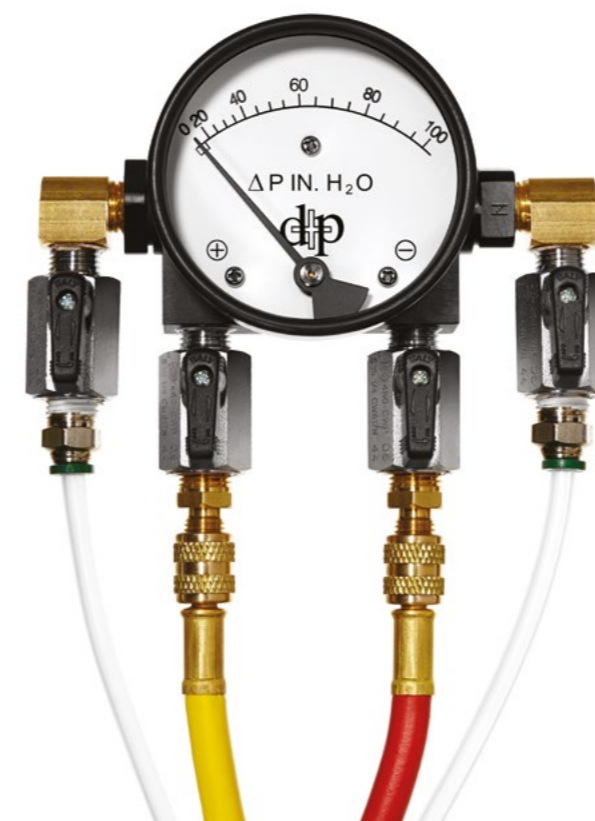
SCREEN FILTER ELEMENT-SYSTEM WITH BRUSH WASHING

FILTER OPERATING SYSTEM

FAMILIAS series filters have the structure of woven-wire screen.

Particulates intended to be separated from water filtered by filter adhere to inner surface of filter, and form pressure difference between input and output of filter. When filter comes to pre-set differential pressure level by means of pressure difference sensor & switch, waste valve of filter opens automatically and water in filter is removed by SWEEPING WITH BRUSHES.

Pollution layer separates from filter surface by this way and discharges from waste valve on subpart of filter. As collectors to which nozzles are connected rotate by means of motor & reductor group, whole inner surface of filter is cleaned with 100% efficiency by means of this BRUSHING cleaning. Backwashing operation lasts 10-50 secs as to filter model.



APPLICATIONS

COOLING TOWER FILTERS



Dirt in cooling tower water dramatically reduces the efficiency of a cooling system. Implementing a self-cleaning water filter is the best way to prevent the problems caused by unwanted particles. Fitran offers full-flow and sidestream cooling tower filters for HVAC and industrial cooling towers.

UF PREFILTRATION



Fitran UF prefiltration equipment provides reliable protection for UF and other membranes. Reduce particle loading to membrane systems with no interruption to system flow.

INDUSTRIAL WATER FILTERS

- Ballast Water Filtration
- Petrochemical
- Pulp and Paper
- Sugar
- Metalworks
- Seawater
- Plastics
- Food and Beverages
- Power Generation
- Car Wash
- Water Recycling



Expert design allows Fitran Filters to comply with the rigid standards of the industrial sector. Fitran offers self-cleaning water filters for cooling, intake, process, service and wastewater, compatible for use in any industrial water filtration system.

IRRIGATION WATER FILTERS



Fitran supplies efficient irrigation filters for: turf, landscape, agriculture, golf and nurseries. Our irrigation filters ensure uninterrupted water flow through irrigation systems.



MUNICIPAL WATER FILTERS

In communities intending to distribute water, pre-filtration is often required as a first step. Screen filters play a significant role in the treatment and disposal of wastewater. Fitran's self-cleaning filters precisely meet this demand.



DOMINUS, RERUM, FAMILIAS MODEL SELECTION TABLES

SCREEN FILTER SERIES

LOW FLOW SERIES

D SERIES	R SERIES	F SERIES	INPUT OUTPUT DN	WASTE DRAINAGE DN	FILTER AREA cm2	FLOW m3/h
D- 1	R- 1	F- 1	25 BSP	15	940	4-13
D- 1 ½	R- 1 ½	F- 1 ½	32 BSP	15	940	4-17
D- 2	R- 2	F- 2	50 BSP	15	940	4-23
D- 2- BB	R- 2- BB	F- 2- BB	50 BSP	25	3.500	10-40

MIDDLE FLOW SERIES

DO SERIES	RE SERIES	FA SERIES	ROUGH FILTER MODEL	INPUT OUTPUT DN	WASTE DRAINAGE DN	ROUGH FILTER DRAINAGE DN	FIL-TER AREA cm2	FLOW m3/h
DO 2006/02-T	RE 2006/02-T	FA 2006/02-T	-	50	32	-	2355	40
DO 3006/02	RE 3006/02	FA 3006/02	-	50	32	-	3530	40
DO 2006/03-T	RE 2006/03-T	FA 2006/03-T	-	50	40	-	2355	60
DO 3006/03	RE 3006/03	FA 3006/03	-	80	40	-	3530	80
DO 4006/03	RE 4006/03	FA 4006/03	-	80	40	-	4710	80
DO 2006/04	RE 2006/04	FA 2006/04	-	100	40	-	2355	130
DO 3006/04	RE 3006/04	FA 3006/04	-	100	40	-	3530	140
DO 4006/04	RE 4006/04	FA 4006/04	DO 4006/04-K	100	40	50	4710	150
DO 3006/06	RE 3006/06	FA 3006/06	-	150	40	-	3530	150
DO 4012/06	RE 4012/06	FA 4012/06	DO 4012/06-K	150	50	50	9420	200
DO 6012/06	RE 6012/06	FA 6012/06	DO 6012/06-K	150	50	50	14.130	250
DO 4012/08	RE 4012/08	FA 4012/08	DO 4012/08-K	200	50	80	9.420	400
DO 6012/08	RE 6012/08	FA 6012/08	DO 6012/08-K	200	50	80	14.130	400
DO 4012/10	RE 4012/10	FA 4012/10	DO 4012/10-K	250	50	80	9.420	600
DO 6012/10	RE 6012/10	FA 6012/10	DO 6012/10-K	250	50	80	14.130	600
DO 4012/12	RE 4012/12	FA 4012/12	DO 4012/12-K	300	50	80	9.420	800
DO 6012/12	RE 6012/12	FA 6012/12	DO 6012/12-K	300	50	80	14.130	1.000

HIGH FLOW SERIES

DOM SERIES	RER SERIES	FAM SERIES	INPUT OUTPUT DN	DRAINAGE DN	ROUGH FILTER DRAINAGE	FILTER AREA cm2	FLOW m3/h
DOM 26012/14	RER 26012/14	FAM 26012/14	350	2 X 50	2	18.840	1.100
DOM 36012/14	RER 36012/14	FAM 36012/14	350	3 X 50	3	28.260	1.250
DOM 46012/14	RER 46012/14	FAM 46012/14	350	4 X 50	4	56.520	1.300
DOM 56012/14	RER 56012/14	FAM 56012/14	350	5 X 50	5	70.650	1.400
DOM 26012/16	RER 26012/16	FAM 26012/16	400	2 X 50	2	18.840	1.500
DOM 36012/16	RER 36012/16	FAM 36012/16	400	3 X 50	3	28.260	1.700
DOM 46012/16	RER 46012/16	FAM 46012/16	400	4 X 50	4	56.520	1.800
DOM 56012/16	RER 56012/16	FAM 56012/16	400	5 X 50	5	70.650	1.900
DOM 36012/18	RER 36012/18	FAM 36012/18	450	3 X 50	3	28.260	2.100
DOM 46012/18	RER 46012/18	FAM 46012/18	450	4 X 50	4	56.520	2.300
DOM 56012/18	RER 56012/18	FAM 56012/18	450	5 X 50	5	70.650	2.400
DOM 46012/20	RER 46012/20	FAM 46012/20	500	4 X 50	4	56.520	2.500
DOM 56012/20	RER 56012/20	FAM 56012/20	500	5 X 50	5	70.650	2.600
DOM 48012/20	RER 48012/20	FAM 48012/20	500	4 X 50	4	75.360	2.700
DOM 58012/20	RER 58012/20	FAM 58012/20	500	5 X 50	5	94.200	2.800
DOM 46012/22	RER 46012/22	FAM 46012/22	550	4 X 50	4	56.520	3.000
DOM 56012/22	RER 56012/22	FAM 56012/22	550	5 X 50	5	70.650	3.300
DOM 48012/22	RER 48012/22	FAM 48012/22	550	4 X 50	4	75.360	3.500
DOM 58012/22	RER 58012/22	FAM 58012/22	550	5 X 50	5	94.200	3.700
DOM 46012/24	RER 46012/24	FAM 46012/24	600	4 X 50	4	56.520	3.800
DOM 56012/24	RER 56012/24	FAM 56012/24	600	5 X 50	5	70.650	4.200
DOM 48012/24	RER 48012/24	FAM 48012/24	600	4 X 50	4	75.360	4.500
DOM 58012/24	RER 58012/24	FAM 58012/24	600	5 X 50	5	94.200	5.000

FILTRAN FILTRASYON TEKNOLOJILERI SAN. VE TIC. LTD. STI.

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