



◀ H E A V Y D U T Y ▶

SCREEN SELF-CLEANING & MEDIA FILTER

Advanced water filtration solutions designed for industrial and commercial applications, featuring Sand Media Filters, Manual Brush Screen Filters, Hydraulic Self-Cleaning Filters, Electric Sucking Self-Cleaning Filters, and Electric Brush Self-Cleaning Filters that deliver efficient filtration, reliable performance, durable construction, and easy maintenance.



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ELECTRIC BRUSH SELF-CLEANING FILTER



TYPE KSD-FL Series

The KUSATSU Electric Brush Self-Cleaning Filter KSD-FL Series is engineered to deliver reliable filtration for industrial water systems by effectively removing suspended solids and contaminants from the process flow. Water passes through the filter screen, where unwanted particles are captured, while clean water continues through the outlet. As debris accumulates on the screen surface, the differential pressure increases until the preset cleaning threshold is reached. Once activated, the automatic cleaning system initiates a backwashing cycle without interrupting filtration. The drain valve opens to discharge collected contaminants while motor-driven brushes continuously clean the screen surface from the inside. This process ensures stable filtration efficiency, reduced maintenance requirements, and uninterrupted system operation. The FL Series is equipped with an intelligent controller supporting differential pressure, timer, manual, and PLC-based control modes for flexible operation across various industrial applications.



Easy Maintenance



Efficient Filtration

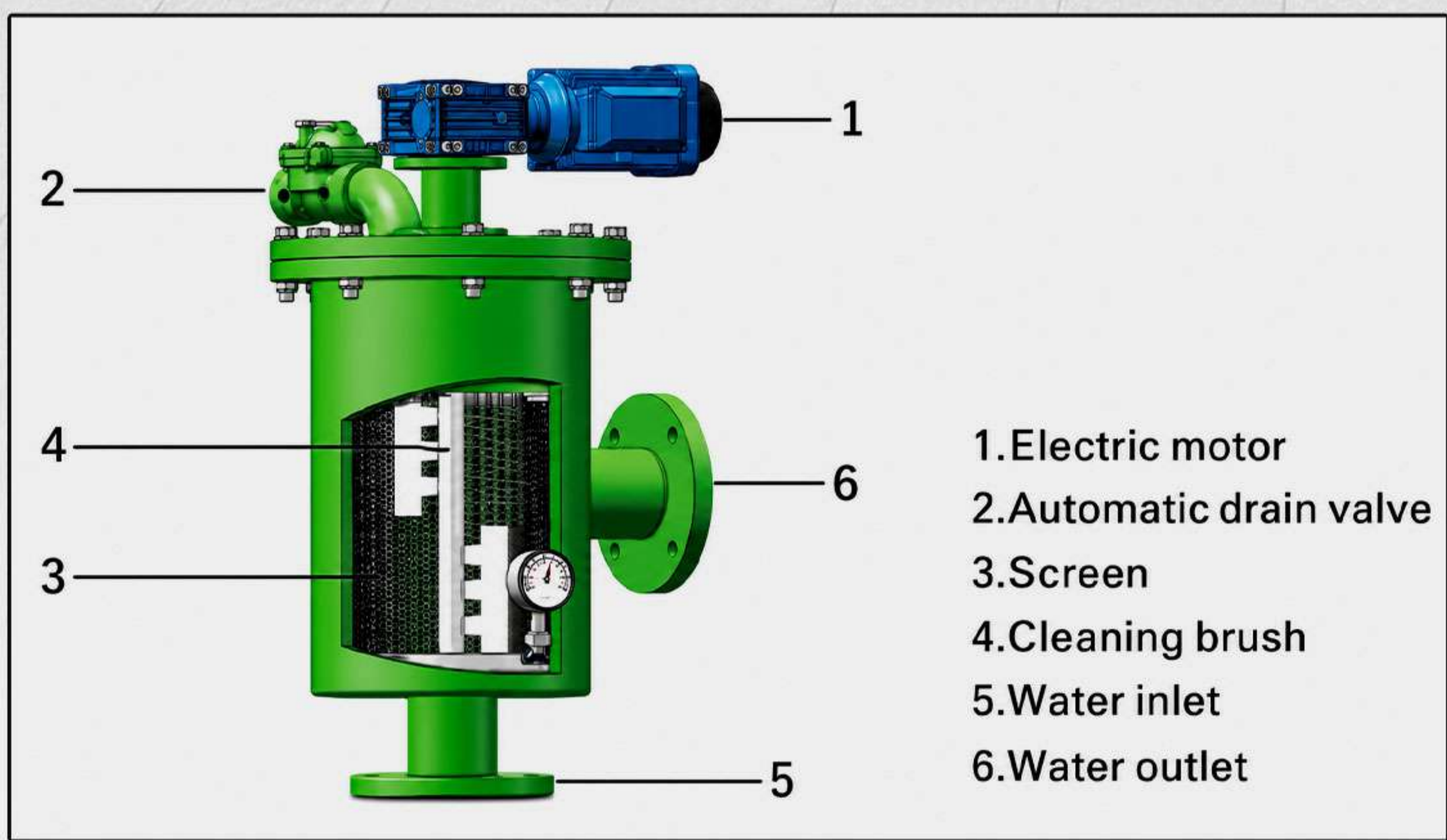


Reliable Performance



Durable Construction

PRODUCT STRUCTURE CHART



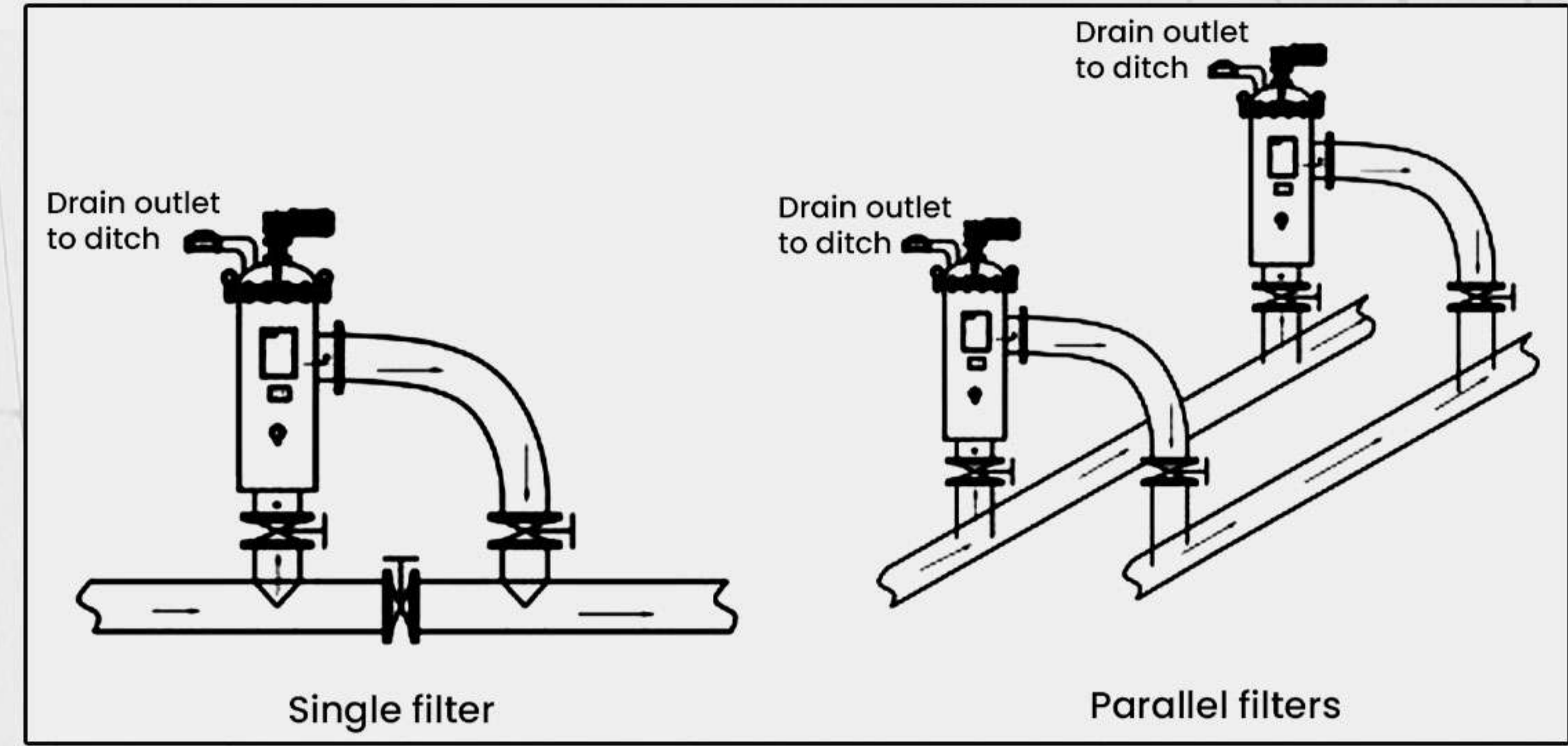
FILTER MATERIAL	
HOUSING	Carbon steel/304 Stainless steel/316L
MESH	304 Stainless steel/316L
BRUSH	304 Stainless steel/316L
DRAIN VALVE	Casting iron, Copper, Stainless steel, Nylon
CONTROL BOX	PVC/Aluminium/Stainless steel
SEALING RING	EPDM rubber
CLEANING BRUSH	Stainless steel/Nylon

TECHNICAL PARAMETER	
Single Maximum Filter Flow	4000 m ³ /h
Filtration Range	4000µm~20µm
Max Working Pressure	≤1.6 bar (customized)
Min Working Pressure	≥0.1 bar
Working Temperature	≤85°C
Power	380V/50Hz (customized)
Control Way	Pressure difference/Time/Manually/PLC
Cleaning Way	Brush
Cleaning Time	10~200 seconds (optional)
Drilling	(4000~800µm)
Wedge	(1000~50µm)
Woven Composite	(800~20µm)

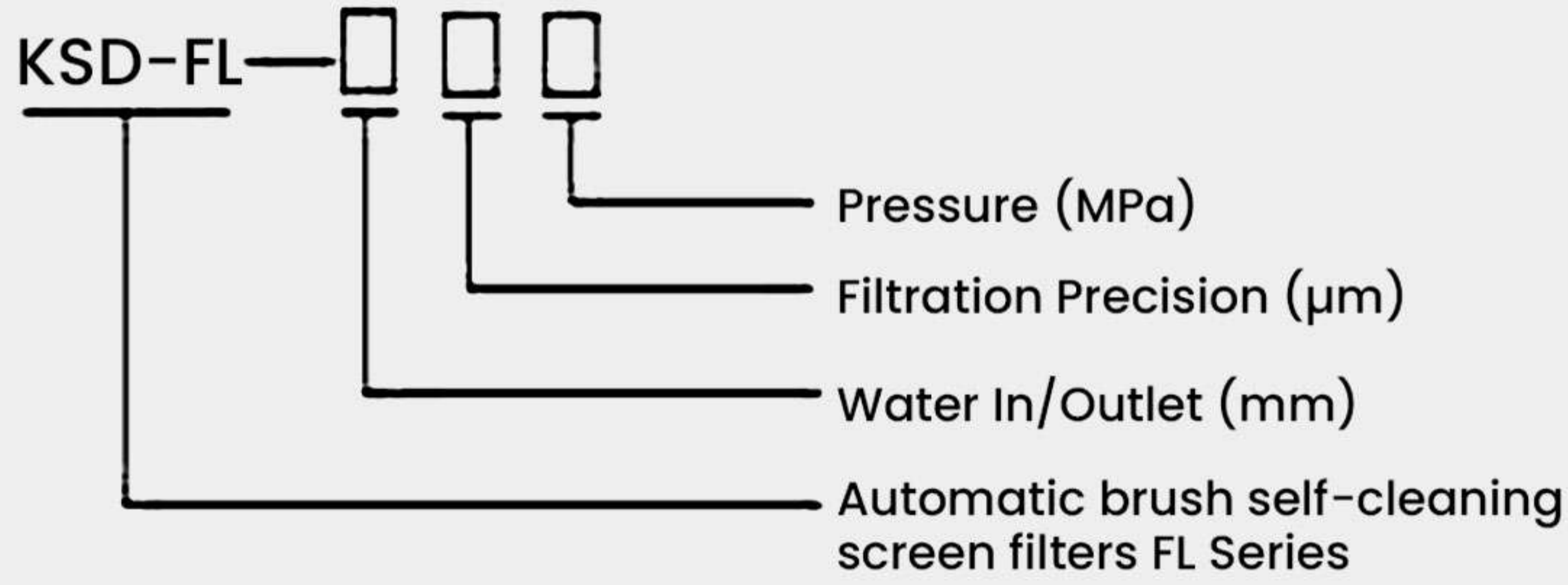
ELECTRIC BRUSH SELF-CLEANING FILTER

TYPE KSD-FL Series

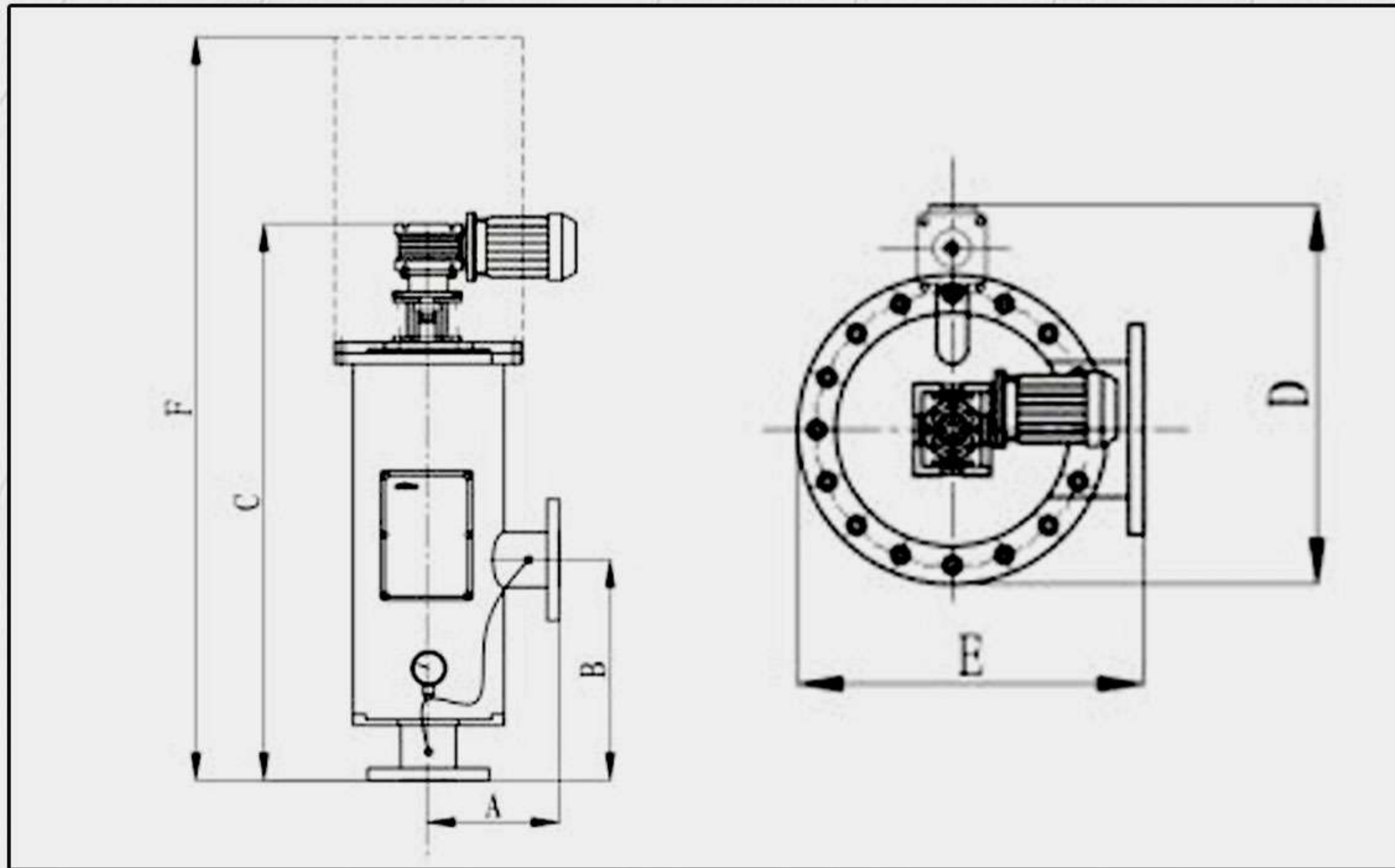
INSTALLATION FIGURE



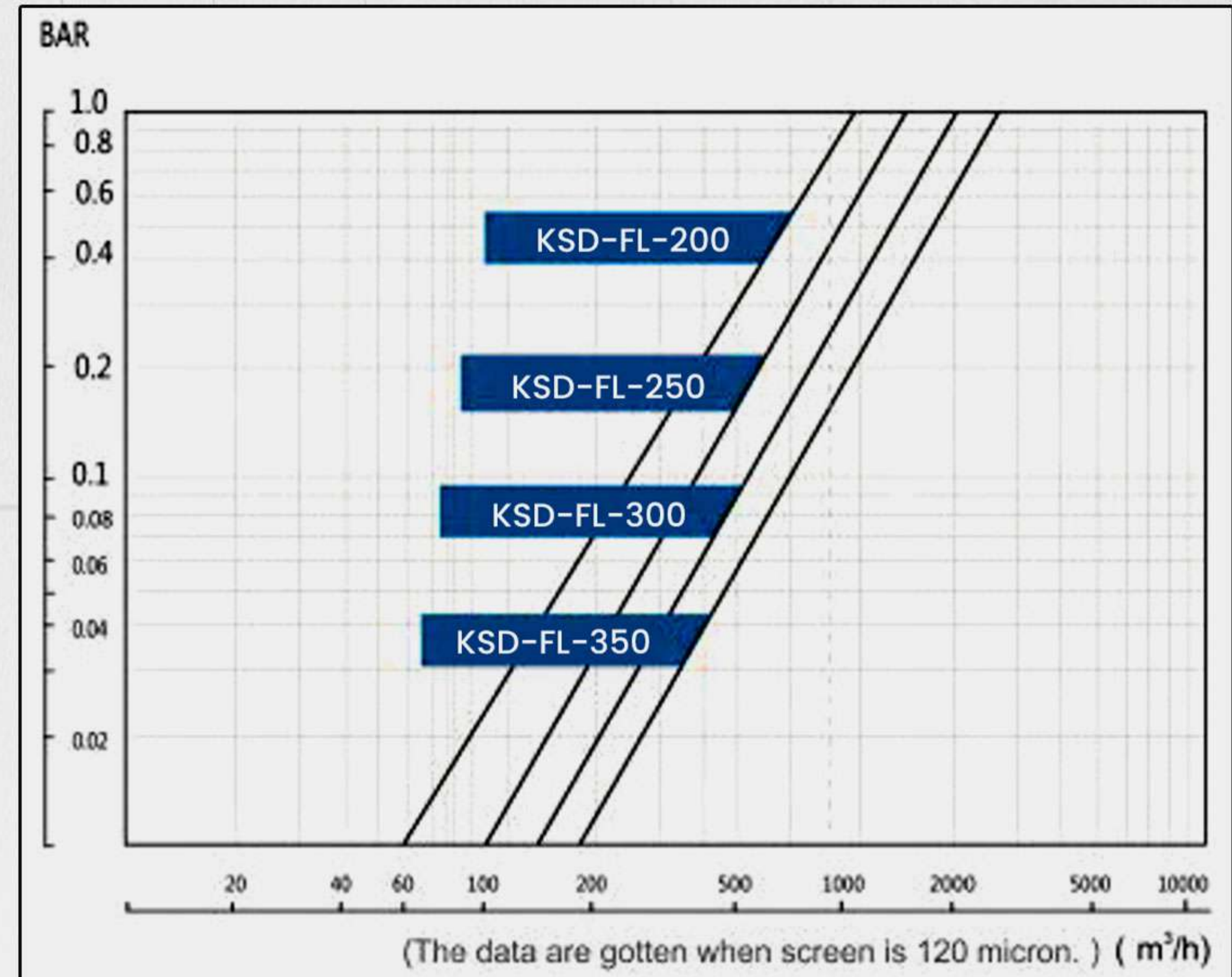
MODEL CLARIFICATION



SIZE CHART



THE TABLE PRESSURE LOSS



TECHNICAL DATA TABLE

MODEL	WATER IN/OUTLET (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	DRAIN OUTLET (mm)	MOTOR POWER (KW)	FLOW (m^3/h)	WEIGHT (Kg.)
KSD-FL-50	50	240	250	700	560	420	900	25	0.12	19	50
KSD-FL-65	65	240	250	700	560	420	900	25	0.12	30	70
KSD-FL-80	80	240	250	700	590	420	900	40	0.12	50	80
KSD-FL-100	100	240	400	950	590	420	1250	40	0.18	80	105
KSD-FL-150	150	260	490	1080	610	420	1400	50	0.18	150	180
KSD-FL-200	200	330	590	1410	680	518	1860	50	0.25	320	235
KSD-FL-250	250	380	630	1490	780	620	1990	50	0.25	490	260
KSD-FL-300	300	415	790	1850	830	680	2650	50	0.37	710	420
KSD-FL-350	350	415	790	1850	830	680	2650	50	0.37	970	620
KSD-FL-400	400	465	790	1950	930	780	2750	50	0.37	1260	738
KSD-FL-450	450	510	790	1980	950	870	2860	50	0.37	1600	860
KSD-FL-500	500	510	790	2100	1050	870	3050	65	0.55	1970	910

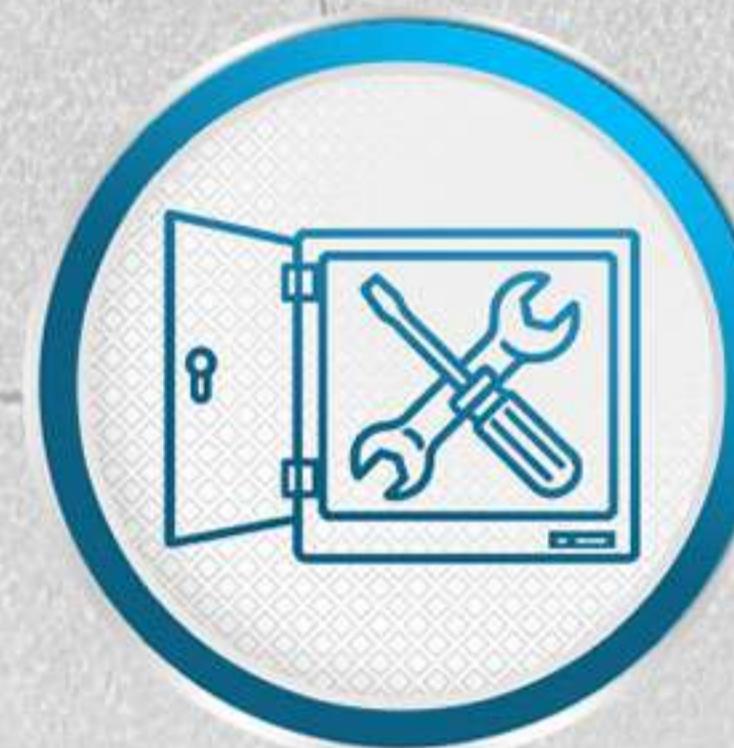
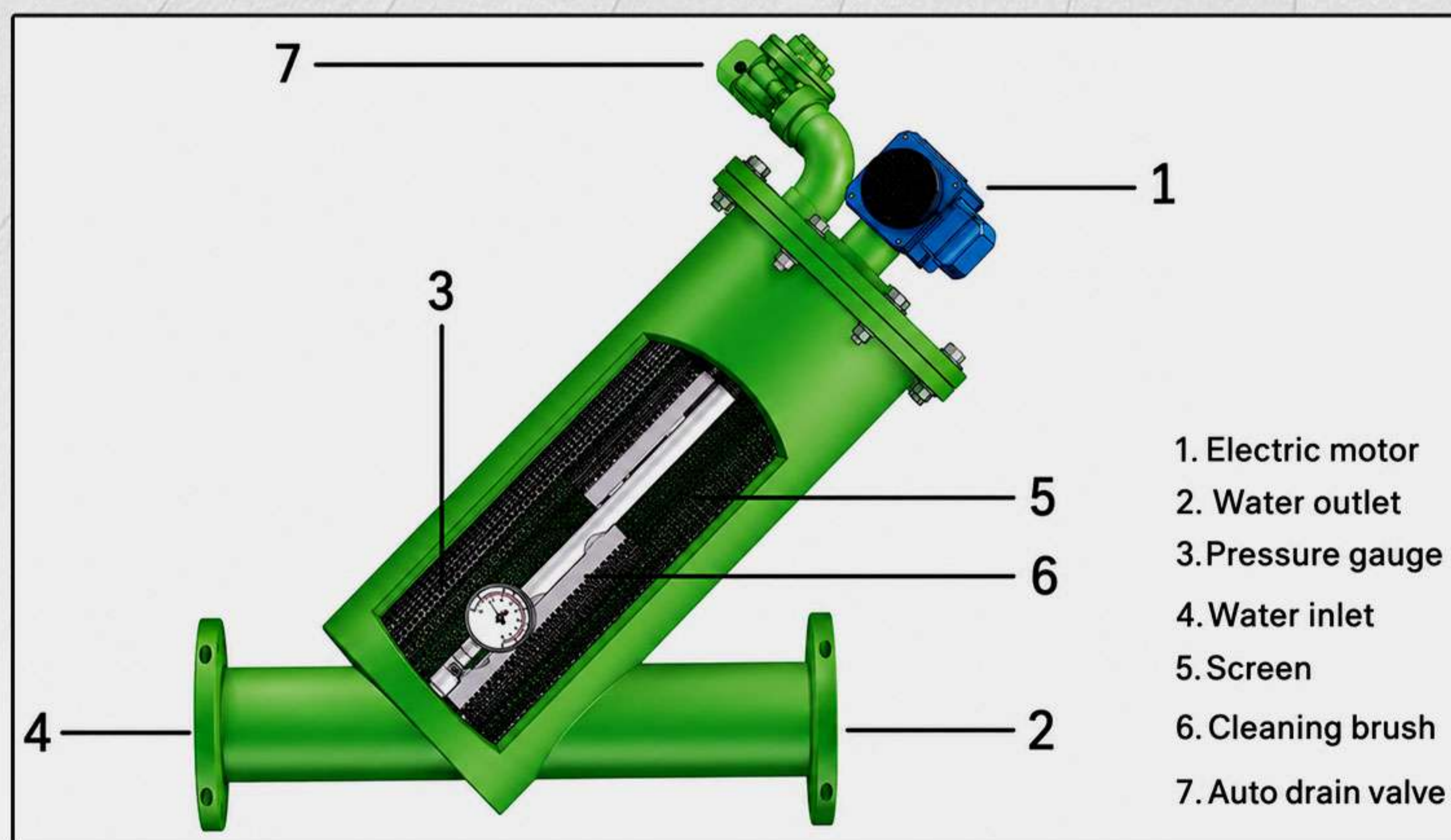
ELECTRIC BRUSH SELF-CLEANING FILTER

TYPE KSD-FY Series

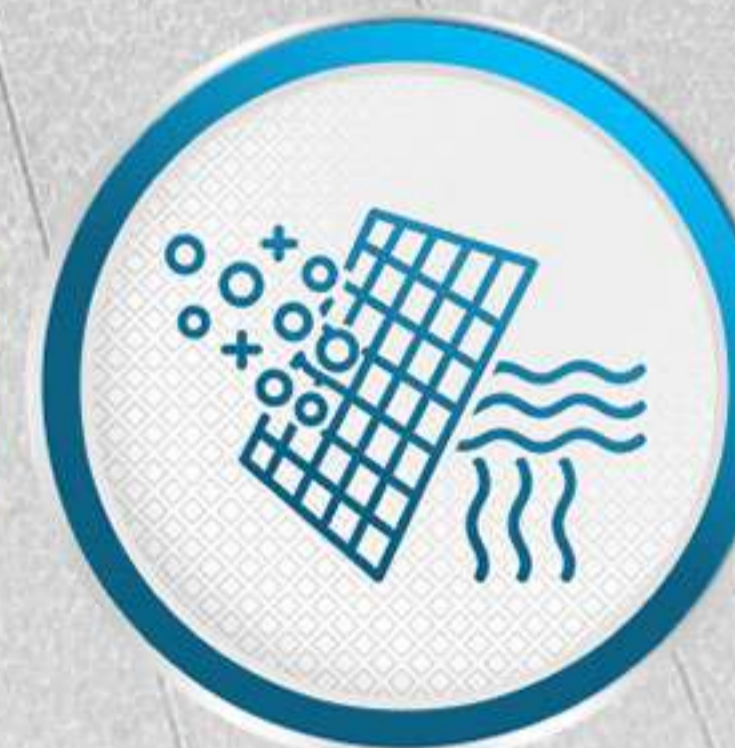
The KUSATSU Electric Brush Self-Cleaning Filter KSD-FY Series is designed to provide continuous and efficient filtration by retaining suspended particles on the filter screen while allowing clean water to flow through the outlet. As contaminants accumulate on the screen, the pressure differential gradually increases. Once the preset differential pressure level is reached, the system automatically initiates a cleaning cycle to maintain optimal filtration performance. The cleaning process consists of two automated stages. First, the drain valve opens to discharge accumulated impurities. Next, an electric motor drives the internal cleaning brushes to remove particles from the screen surface, flushing them out through the drain outlet. During the cleaning cycle, the filter continues supplying filtered water without interrupting operation. The entire system is managed by an intelligent controller that supports multiple control modes, including differential pressure, timer, manual, and PLC operation.



PRODUCT STRUCTURE CHART



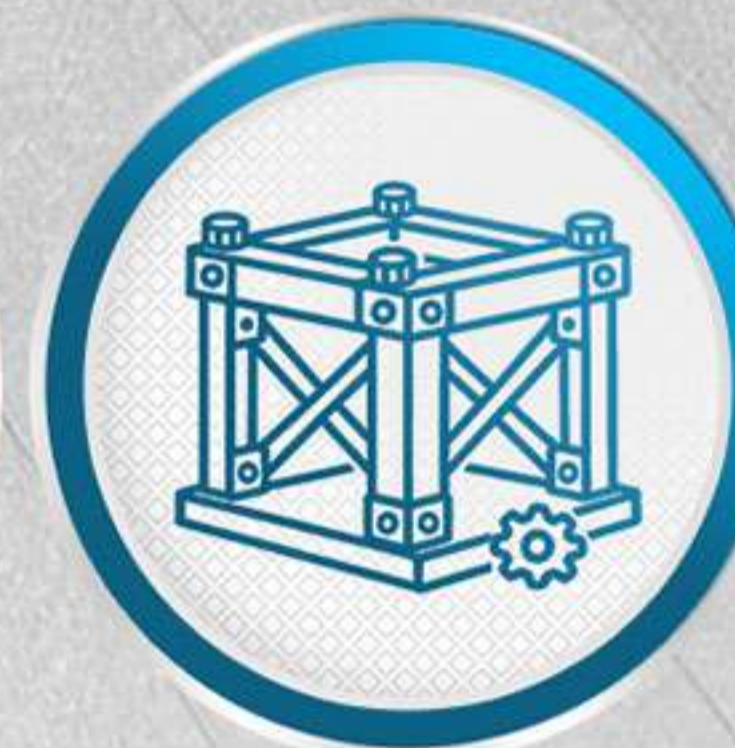
Easy
Maintenance



Efficient
Filtration



Reliable
Performance



Durable
Construction

TECHNICAL PARAMETER

Single Maximum Filter Flow	1260 m ³ /h
Filtration Range	4000μm-20μm
Max Working Pressure	≤16 bar (customized)
Min Working Pressure	≥1 bar
Working Temperature	≤85°C
Power	380V/50Hz (customized)
Control Way	Pressure difference/ Time/Manually/PLC
Cleaning Way	Brush
Cleaning Time	10~200 seconds (optional)
Drilling	(4000-800μm)
Wedge	(1000-50μm)
Woven Composite	(800-20μm)

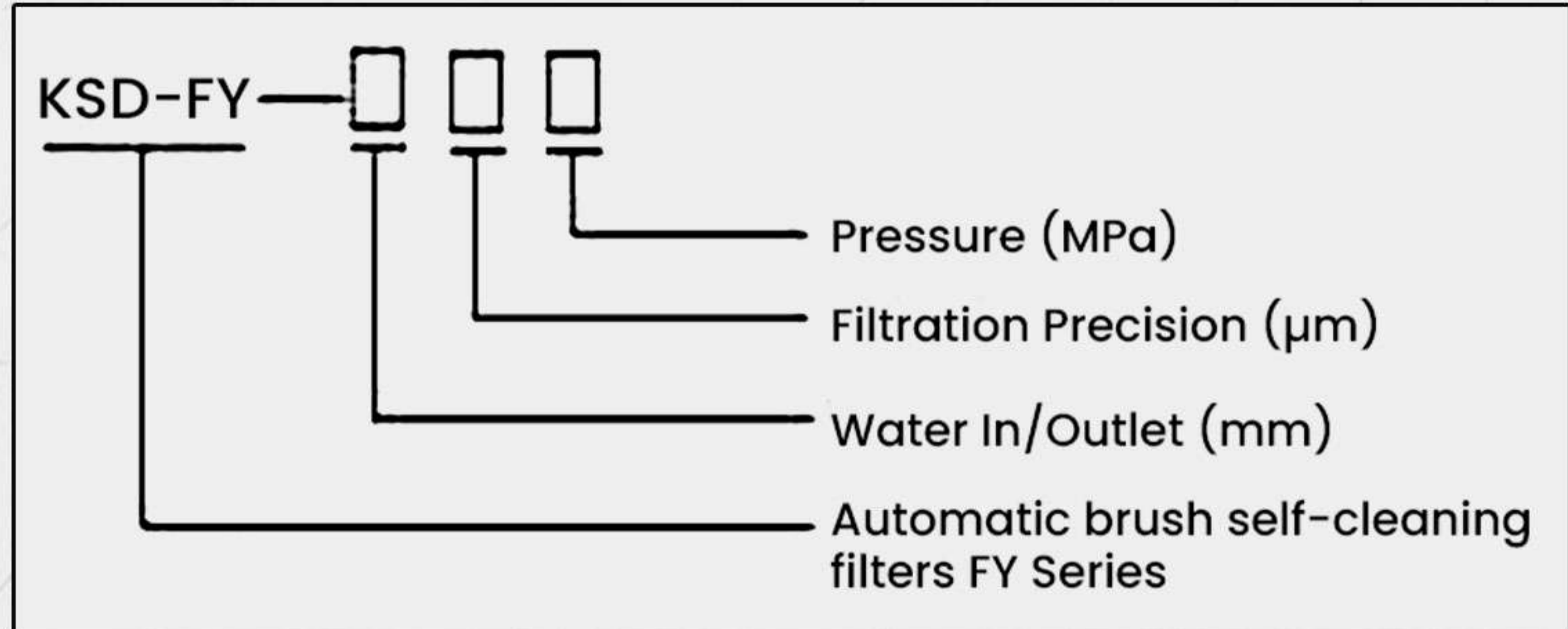
FILTER MATERIAL

HOUSING	Carbon steel/304 Stainless steel/316L
MESH	304 Stainless steel/316L
BRUSH	304 Stainless steel/316L
DRAIN VALVE	Casting iron, Copper, Stainless steel, Nylon
CONTROL BOX	PVC
SEALING RING	EPDM Rubber
CLEANING BRUSH	Stainless steel/Nylon

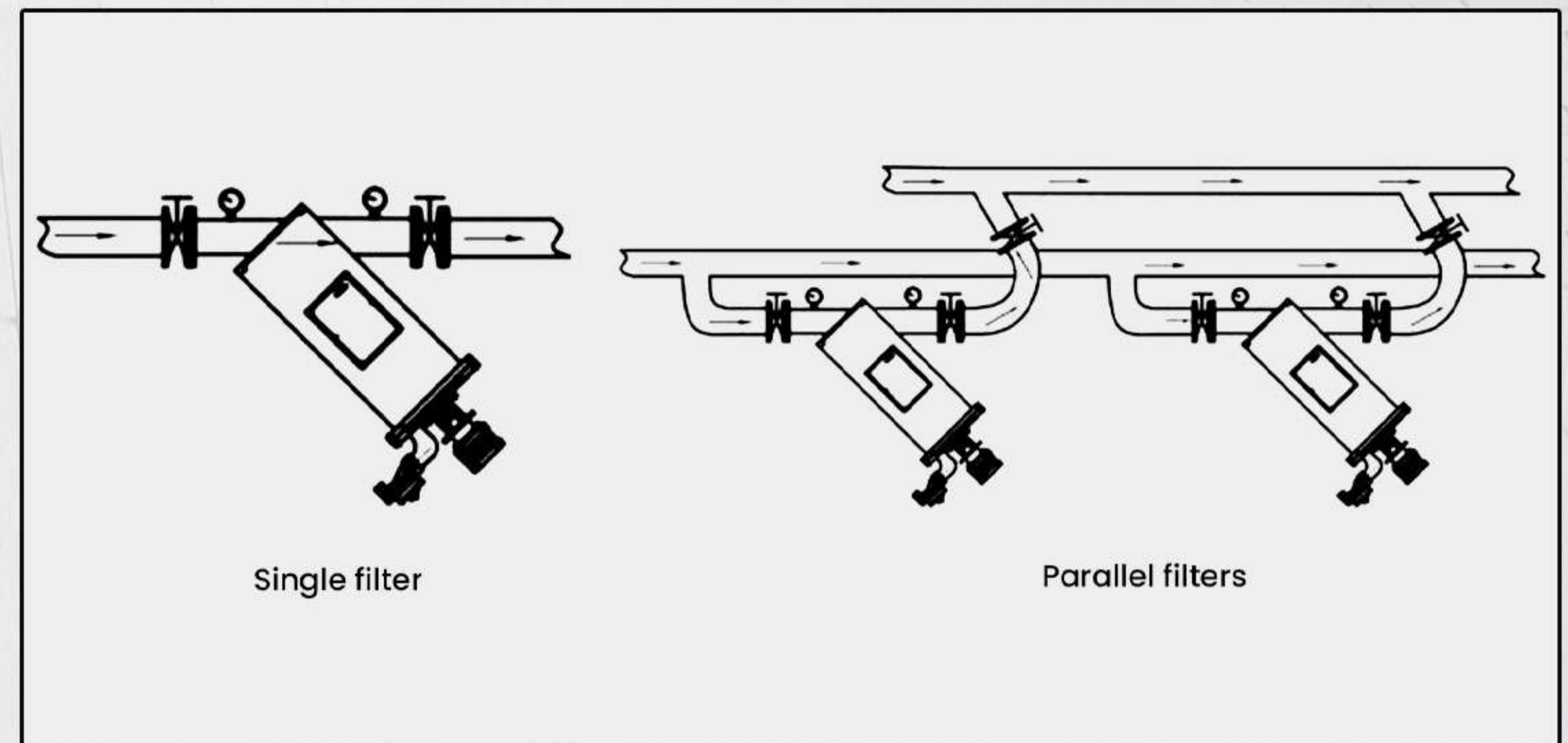
ELECTRIC BRUSH SELF-CLEANING FILTER

TYPE KSD-FY Series

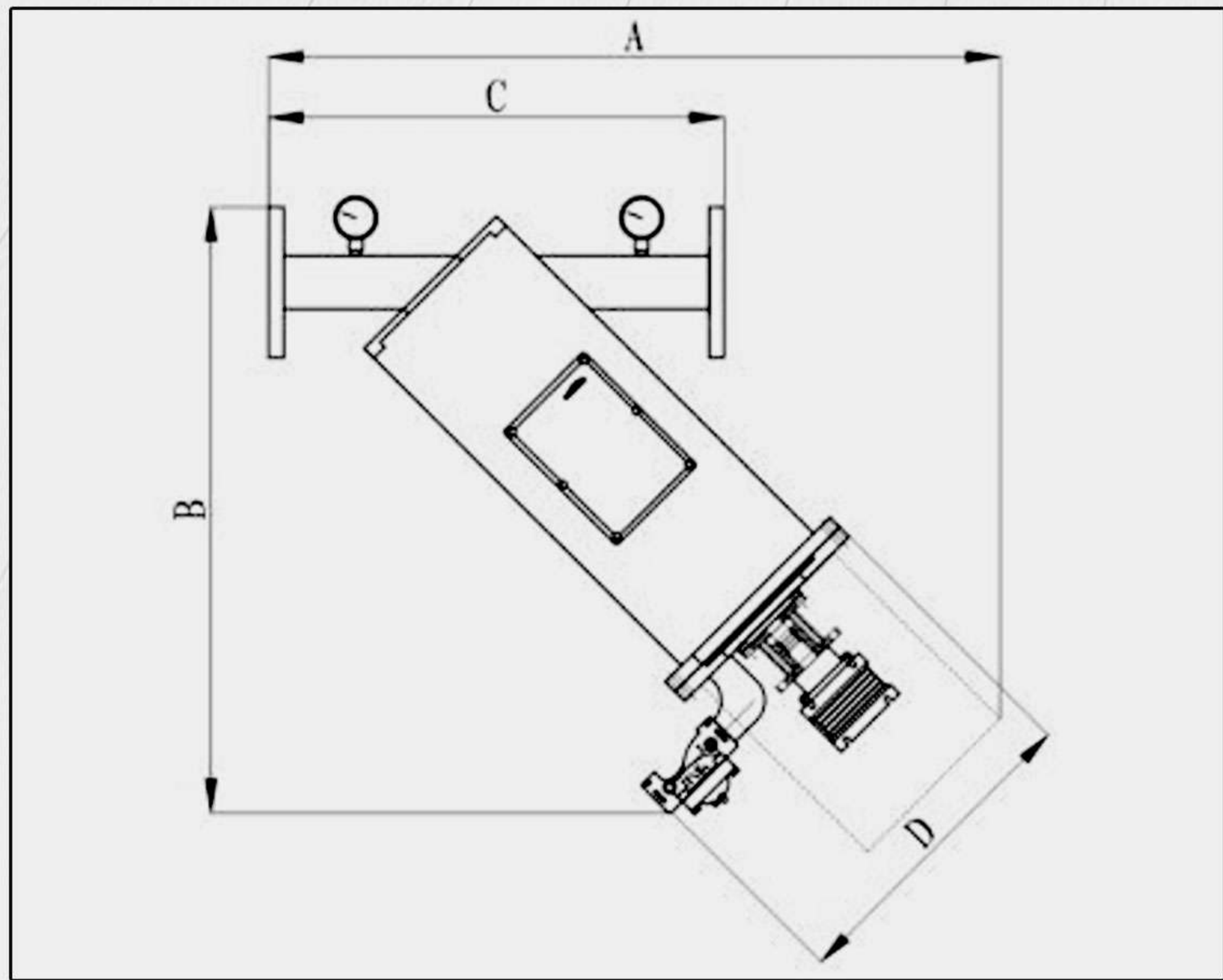
MODEL CLARIFICATION



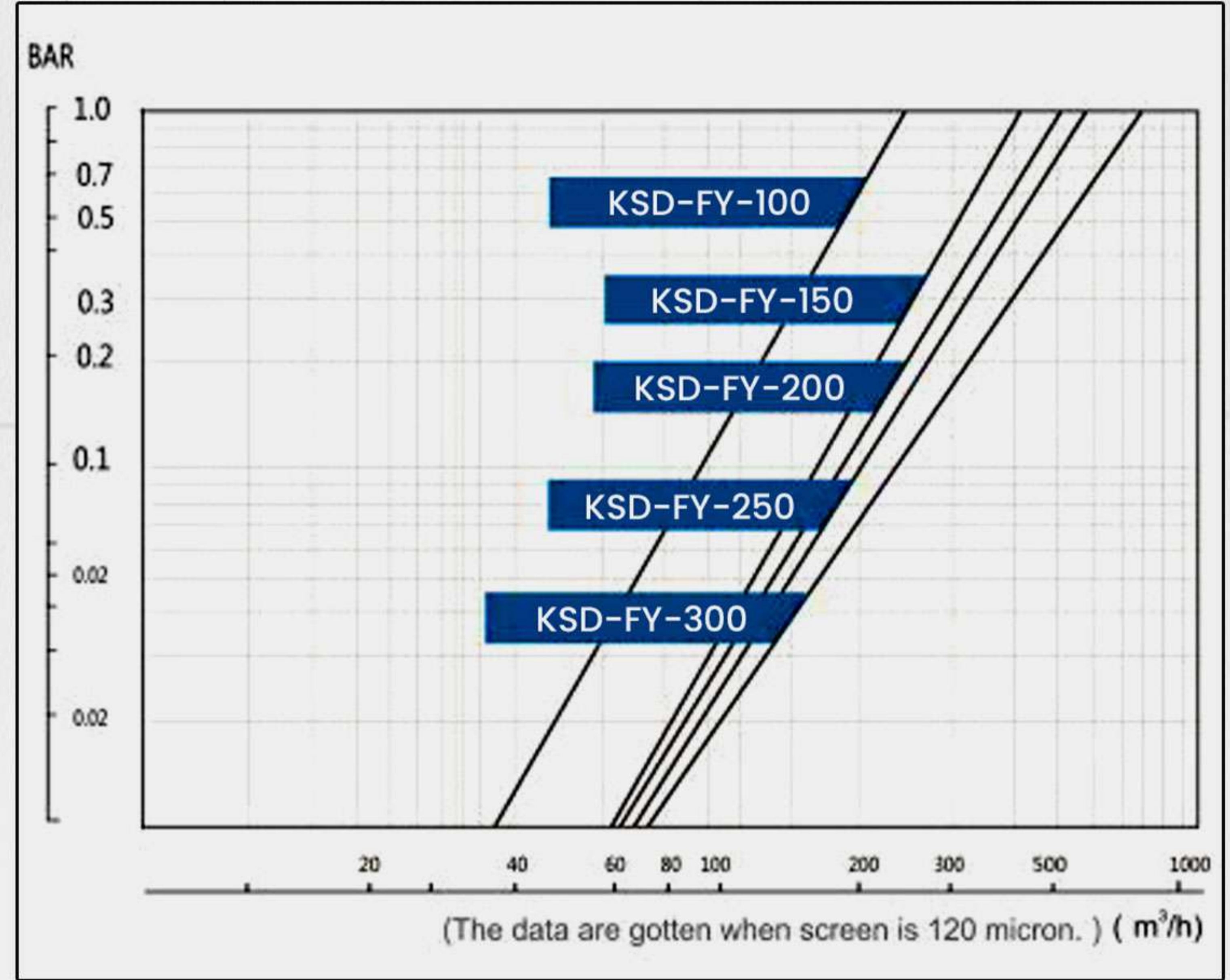
INSTALLATION FIGURE



SIZE CHART



THE TABLE PRESSURE LOSS



TECHNICAL DATA TABLE

MODEL	WATER IN/OUTLET (mm)	A (mm)	B (mm)	C (mm)	D (mm)	DRAIN OUTLET (mm)	MOTOR POWER (KW)	FLOW (m³/h)	WEIGHT (Kg.)
KSD-FY-50	50	870	545	690	420	25	0.12	19	50
KSD-FY-65	65	870	545	690	420	25	0.12	30	70
KSD-FY-80	80	870	545	690	420	40	0.12	50	80
KSD-FY-100	100	1270	860	690	420	40	0.18	80	105
KSD-FY-150	150	1365	980	750	420	50	0.18	150	160
KSD-FY-200	200	1670	1175	850	518	50	0.25	320	225
KSD-FY-250	250	1732	1236	1030	620	50	0.25	490	260
KSD-FY-300	300	2268	1573	1380	680	50	0.37	710	395

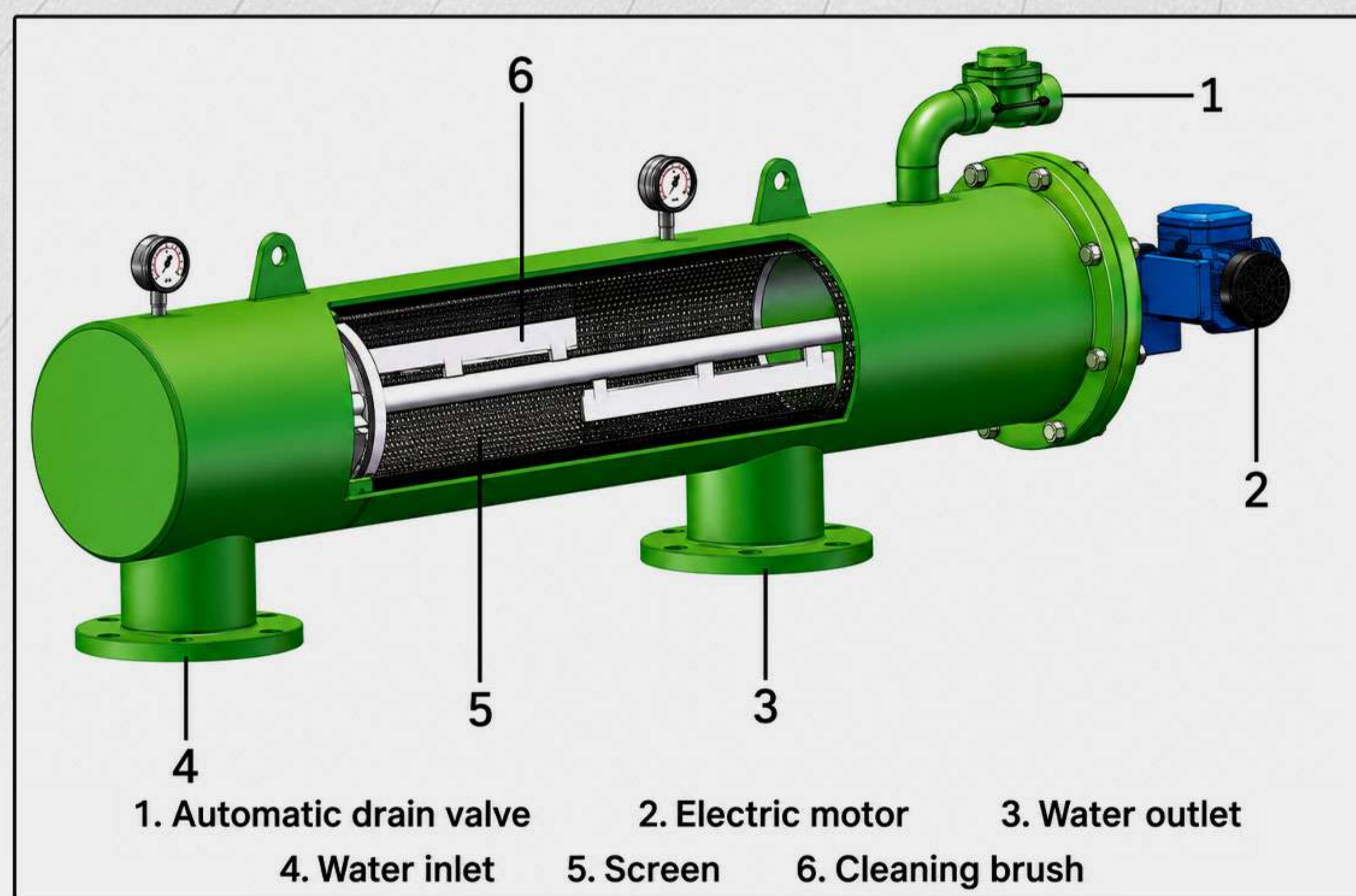
ELECTRIC BRUSH SELF-CLEANING FILTER

TYPE KSD-FW Series

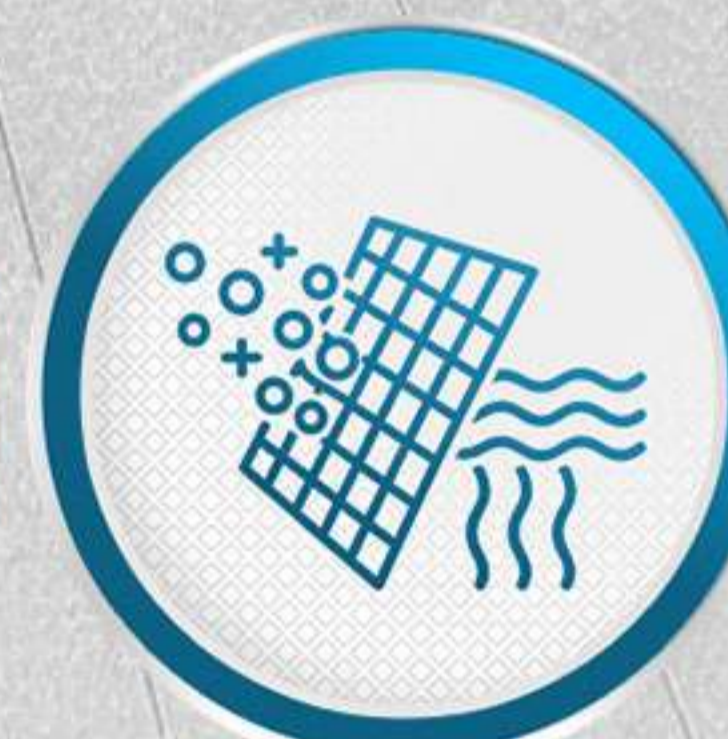
The KUSATSU Electric Brush Self-Cleaning Filter KSD-FW Series is designed to provide efficient and continuous filtration by removing suspended particles from water systems. During operation, water passes through the filter screen where contaminants are captured, allowing clean water to flow freely through the outlet. As the collected debris gradually builds up on the screen surface, the differential pressure increases and triggers the automatic cleaning sequence at the preset level. The self-cleaning process is performed automatically to maintain consistent filtration performance with minimal operator intervention. An automatic drain valve opens to discharge accumulated solids while motor-driven brushes thoroughly clean the filter screen from within. This ensures uninterrupted water supply during the cleaning cycle and helps reduce maintenance requirements. The FW Series is equipped with a versatile control system supporting differential pressure, timer, manual, and PLC operating modes to meet the demands of various industrial filtration applications.



PRODUCT STRUCTURE CHART



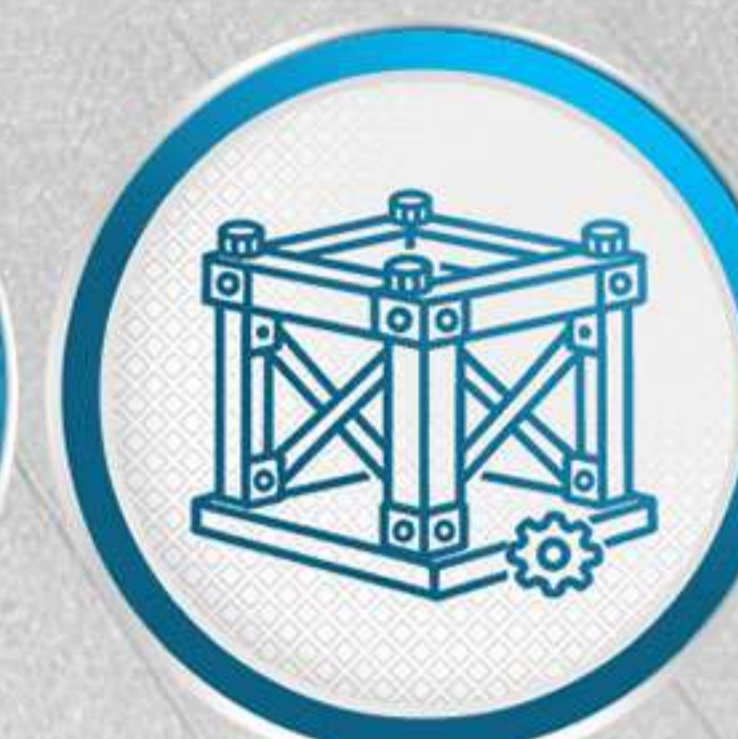
Easy Maintenance



Efficient Filtration



Reliable Performance



Durable Construction

FILTER MATERIAL

HOUSING	Carbon steel/304 Stainless steel/316L
MESH	304 Stainless steel/316L
BRUSH	304 Stainless steel/316L
DRAIN VALVE	Casting Iron, Copper, Stainless steel, Nylon
CONTROL BOX	PVC/Aluminium
SEALING RING	EPDM Rubber
CLEANING BRUSH	Stainless steel/Nylon

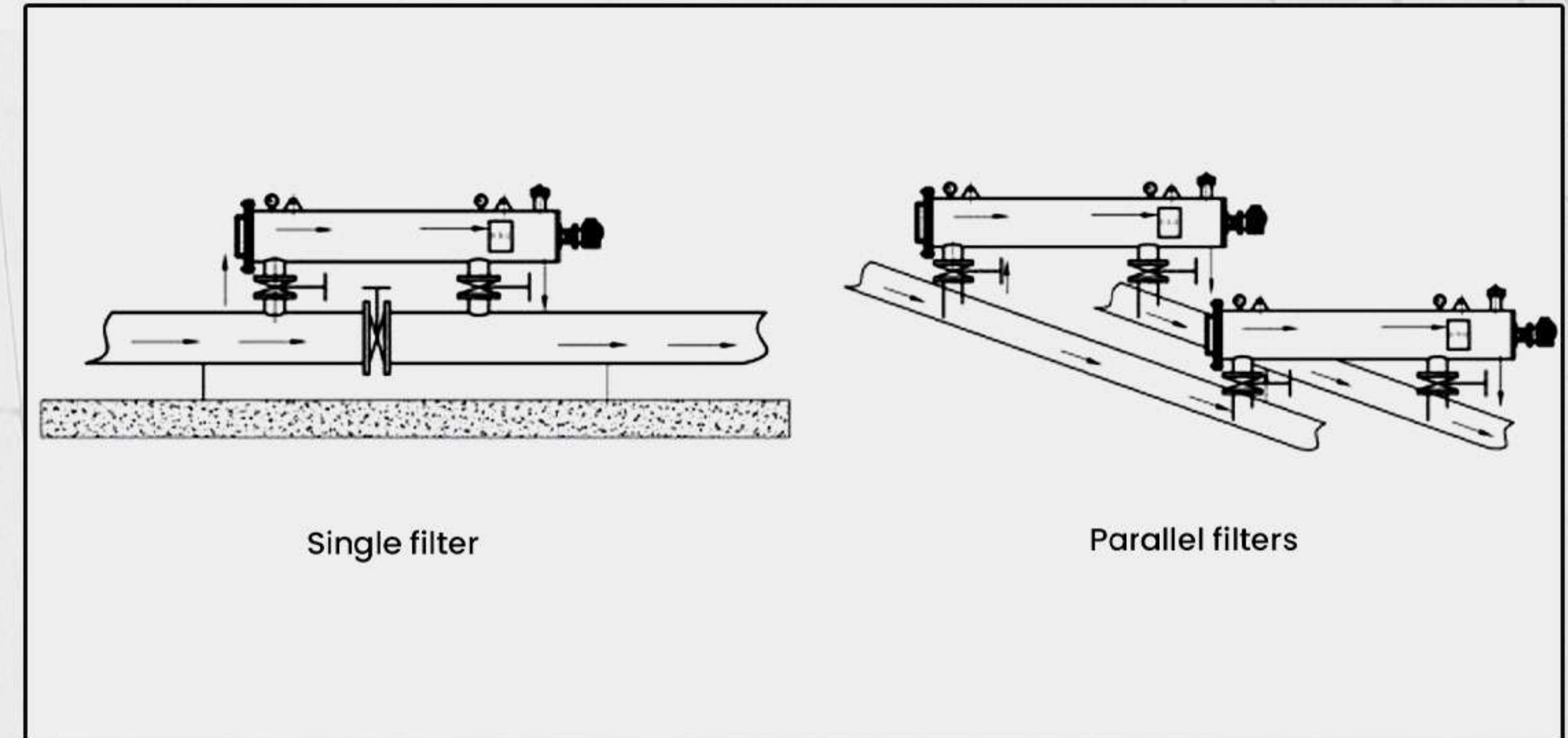
TECHNICAL PARAMETER

Single Maximum Filter Flow	4000 m ³ /h
Filtration Range	4000µm-20µm
Max Working Pressure	≤16 bar (customized)
Min Working Pressure	≥1 bar
Working Temperature	≤85°C
Power	380V/50Hz (customized)
Control Way	pressure difference/ time/manually/PLC
Cleaning Way	Brush
Cleaning Time	10~200 seconds (optional)
Drilling	(4000-800µm)
Wedge	(1000-50µm)
Woven Composite	(800-20µm)

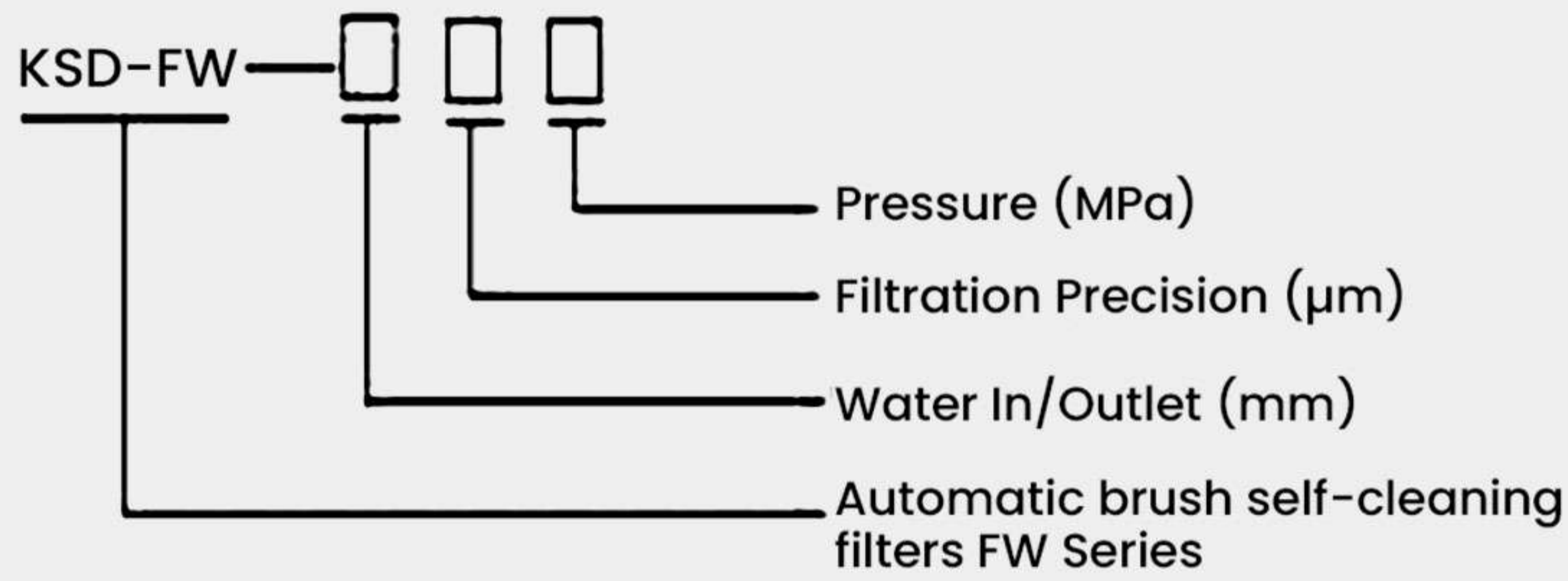
ELECTRIC BRUSH SELF-CLEANING FILTER

TYPE KSD-FW Series

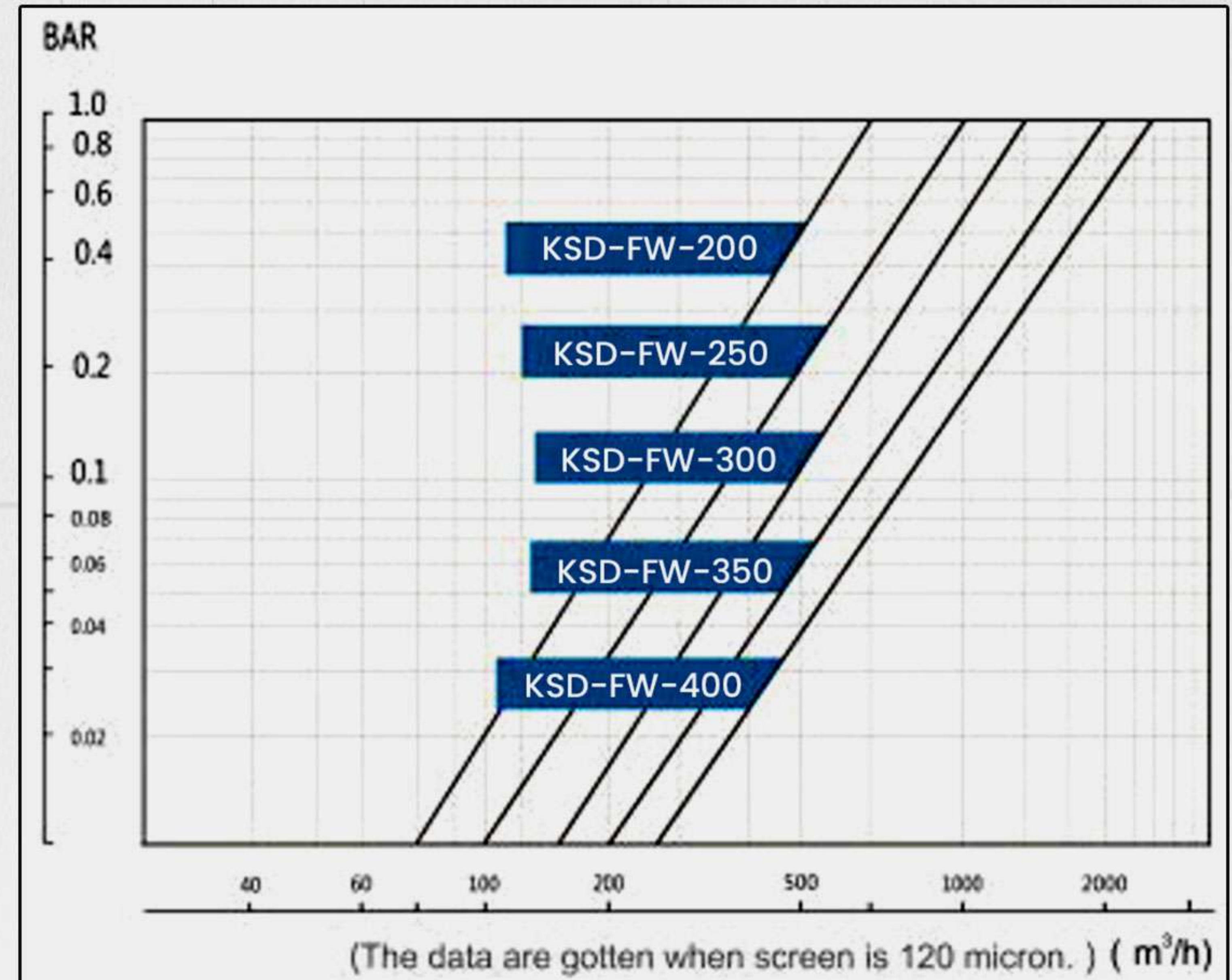
INSTALLATION FIGURE



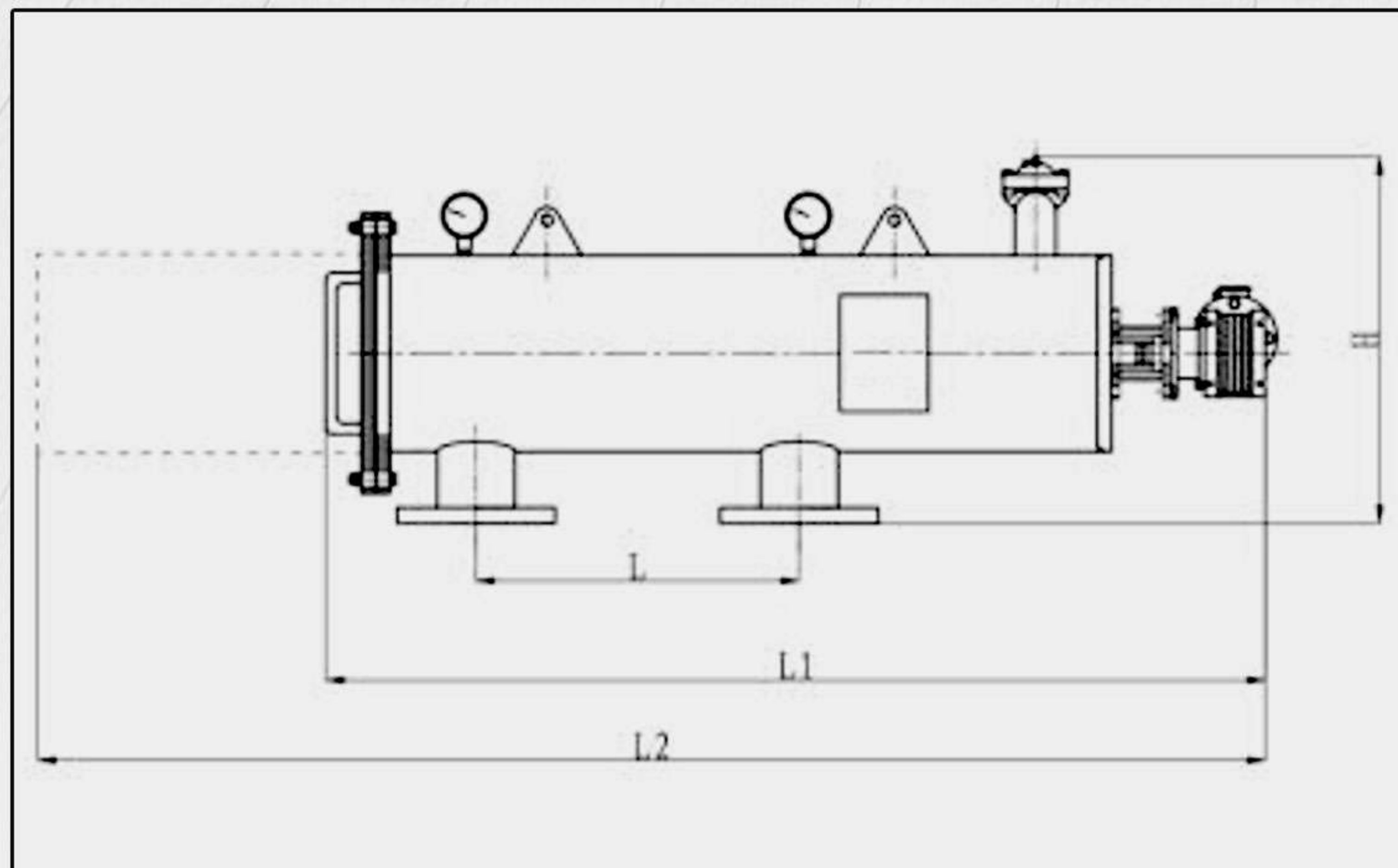
MODEL CLARIFICATION



THE TABLE PRESSURE LOSS



SIZE CHART



TECHNICAL DATA TABLE

MODEL	WATER IN/OUTLET (mm)	L (mm)	L1 (mm)	L2 (mm)	H	DRAIN OUTLET (mm)	MOTOR POWER (KW)	FLOW (m^3/h)	WEIGHT (Kg.)
KSD-FW-80	80	450	1338	2038	493	40	0.12	50	180
KSD-FW-100	100	450	1338	2038	493	40	0.18	80	198
KSD-FW-150	150	900	1705	2705	545	50	0.18	150	328
KSD-FW-200	200	900	1765	2765	617	50	0.25	320	375
KSD-FW-250	250	900	1845	2895	720	50	0.25	450	470
KSD-FW-300	300	1100	2442	3792	800	50	0.37	600	519
KSD-FW-350	350	1100	2442	3792	800	50	0.37	850	660
KSD-FW-400	400	1100	2792	4142	900	50	0.37	1200	708

ELECTRIC BRUSH SELF-CLEANING FILTER



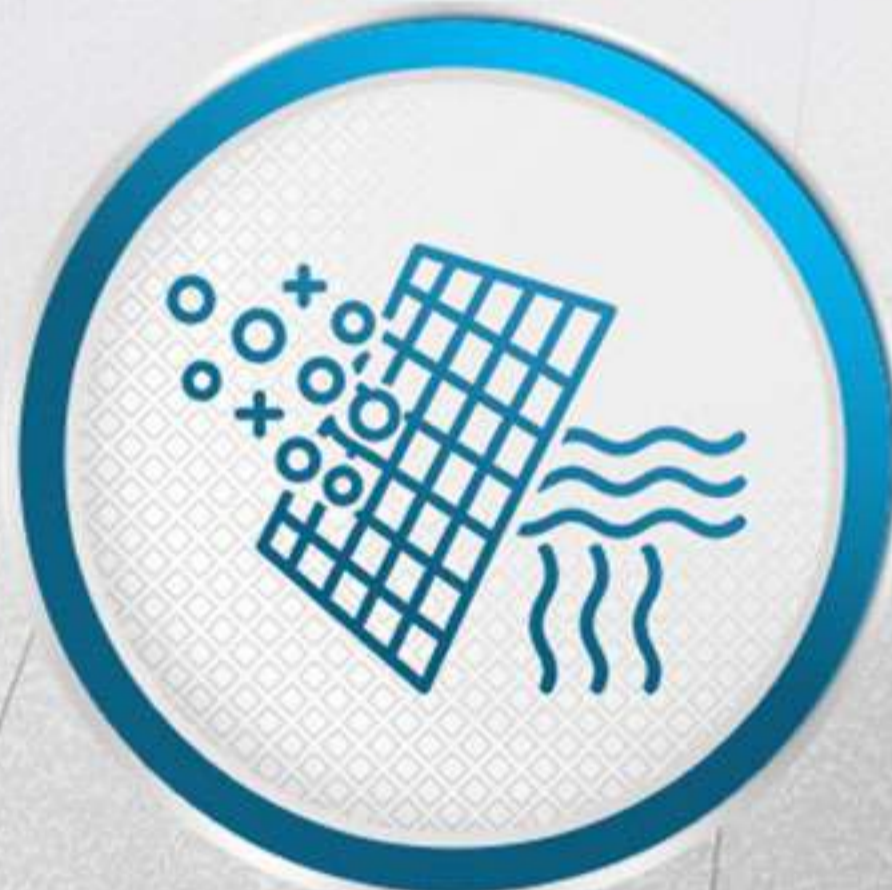
TYPE KSD-FS Series

The KUSATSU Electric Brush Self-Cleaning Filter KSD-FS Series is developed to deliver dependable filtration performance for industrial water treatment systems. Water passes through the filter screen where suspended solids and contaminants are effectively retained, allowing clean water to flow continuously through the outlet. As particles accumulate on the screen surface, the differential pressure gradually rises until the preset cleaning point is reached, automatically initiating the self-cleaning process.

The automatic cleaning cycle is designed to maintain filtration efficiency while minimizing operational downtime. During the process, the drain valve opens to remove collected debris, while motor-driven brushes clean the screen from the inside to restore optimal flow conditions. Filtration continues throughout the cleaning cycle, ensuring uninterrupted water supply and consistent system performance. The FS Series is equipped with an advanced controller that supports differential pressure, timer, manual, and PLC control modes for flexible and reliable operation across a wide range of industrial applications.

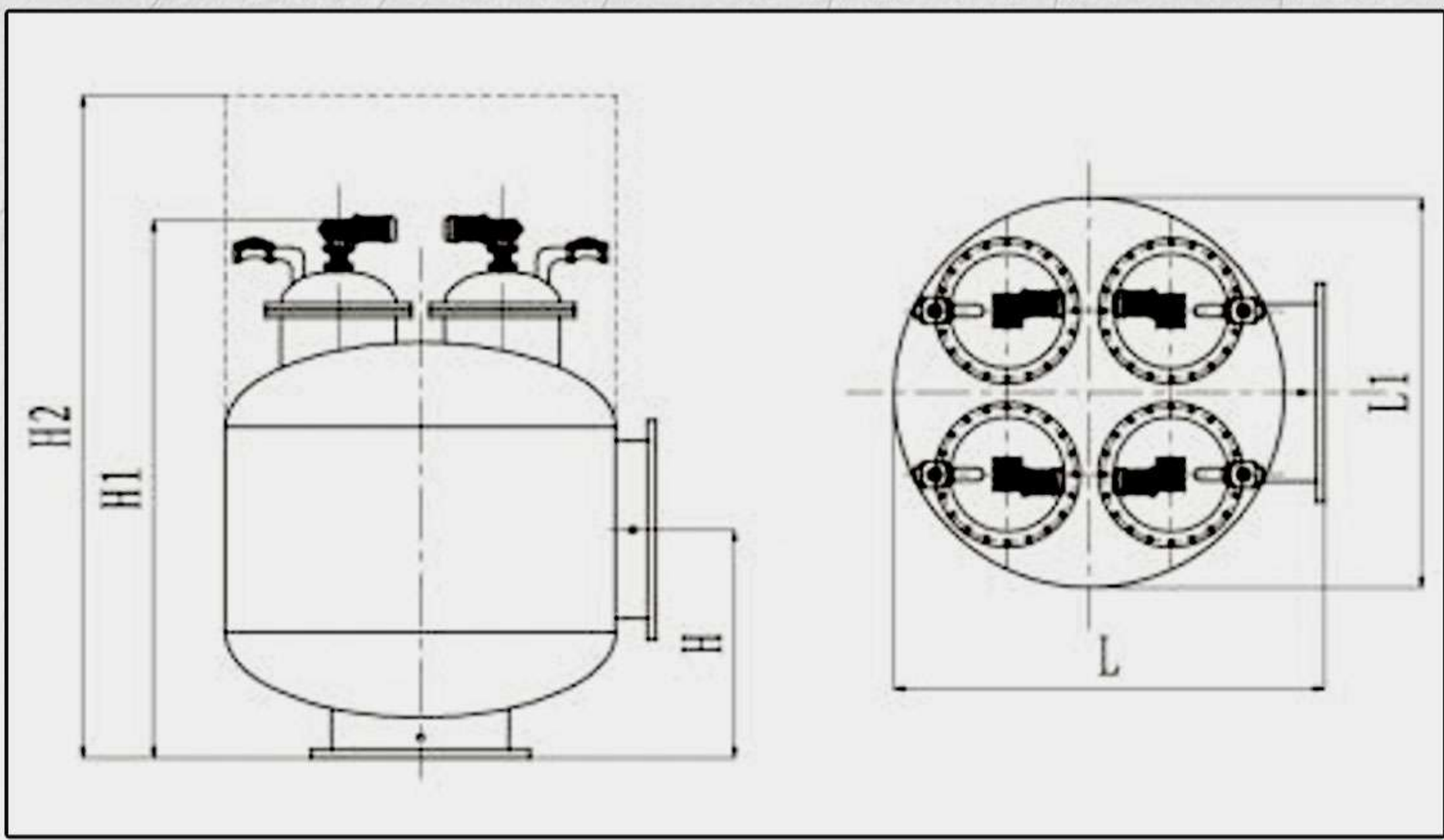


Easy Maintenance



Efficient Filtration

SIZE CHART



Reliable Performance



Durable Construction

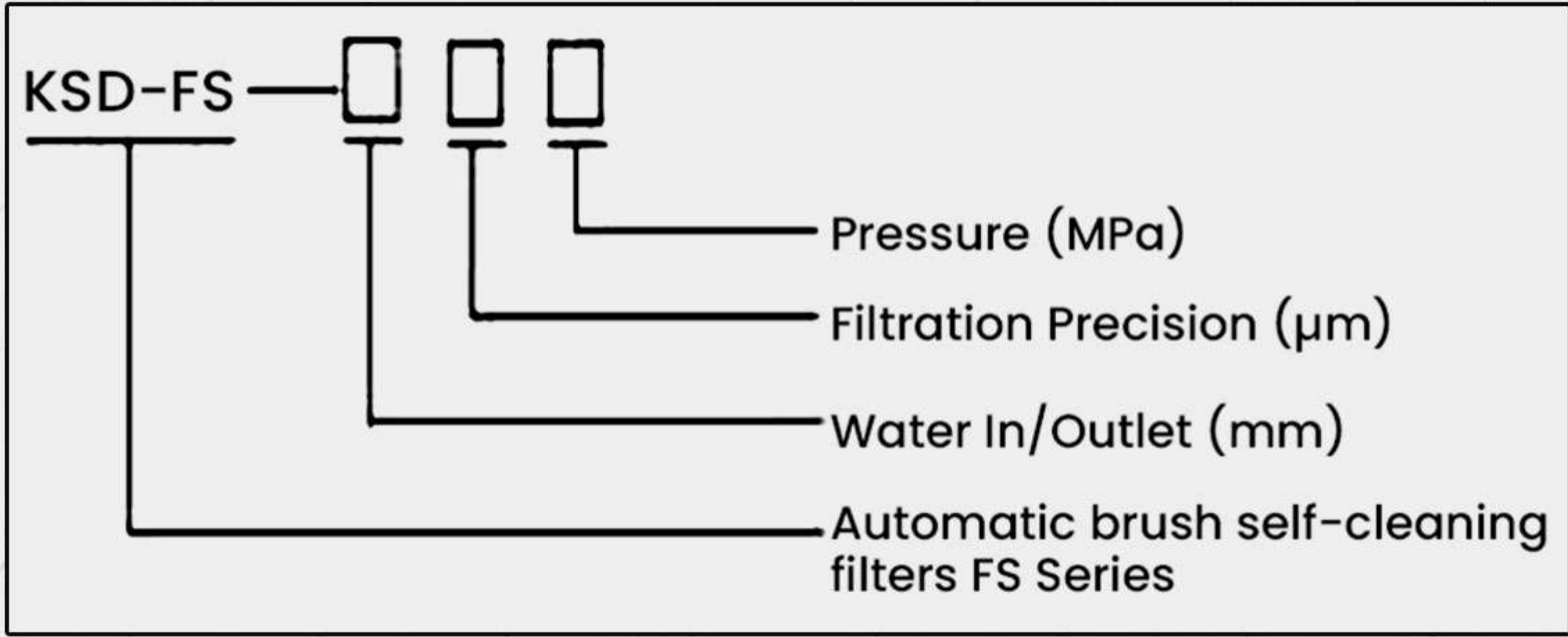
FILTER MATERIAL	
HOUSING	Carbon steel/304 Stainless steel/316L
MESH	304 Stainless steel/316L
BRUSH	304 Stainless steel/316L
DRAIN VALVE	Casting iron, Copper, Stainless steel, Nylon
CONTROL BOX	PVC/Aluminium
SEALING RING	EPDM Rubber
CLEANING BRUSH	Stainless steel/Nylon

TECHNICAL PARAMETER	
Single Maximum Filter Flow	5000 m ³ /h
Filtration Range	4000µm-20µm
Max Working Pressure	≤16 bar (customized)
Min Working Pressure	≥1 bar
Working Temperature	≤85°C
Power	380V/50Hz (customized)
Control Way	Pressure difference/Time/Manually/PLC
Cleaning Way	Brush
Cleaning Time	10~200 seconds (optional)
Drilling	(4000-800µm)
Wedge	(1000-50µm)
Woven Composite	(800-20µm)

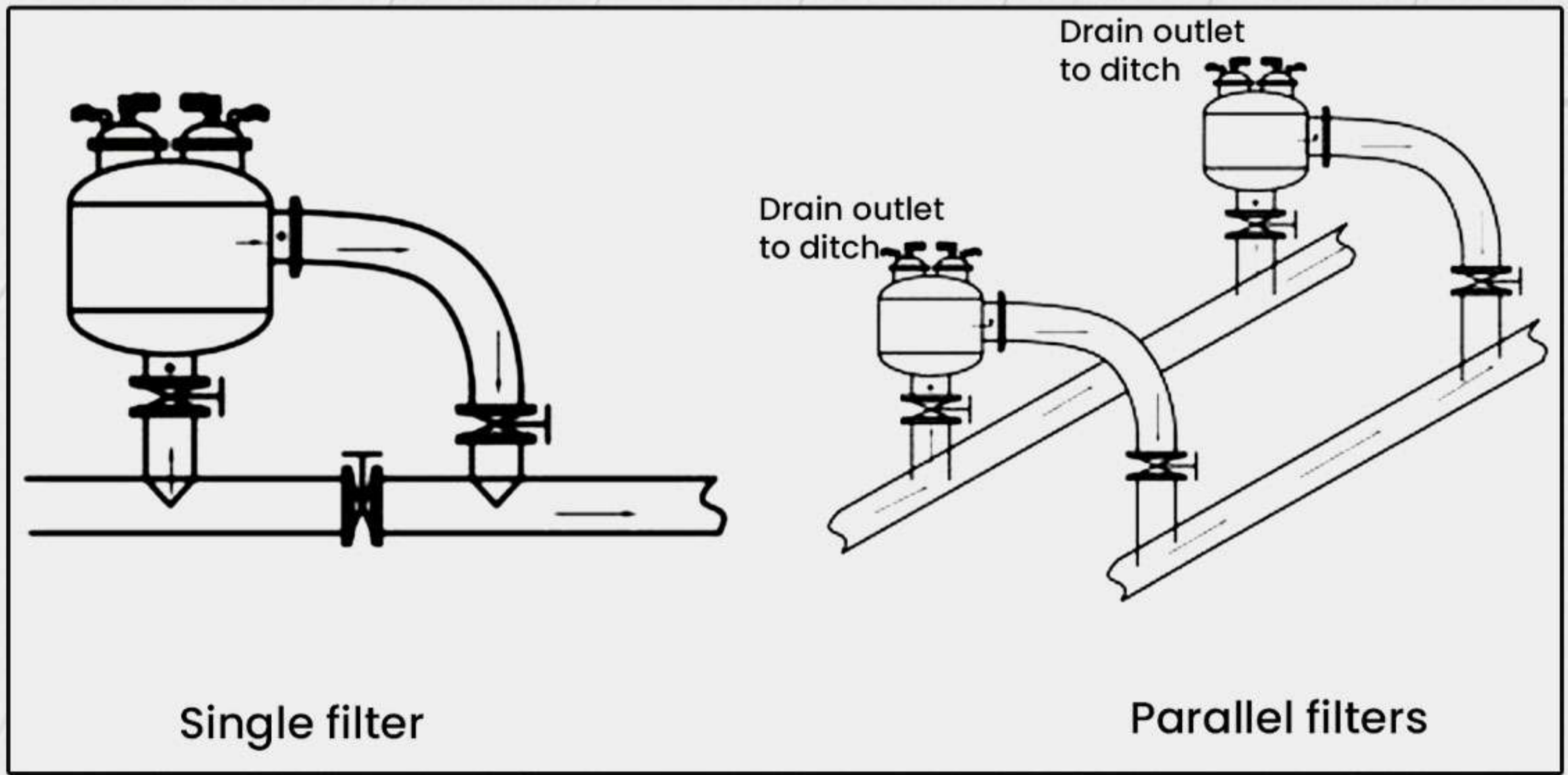
ELECTRIC BRUSH SELF-CLEANING FILTER

TYPE KSD-FS Series

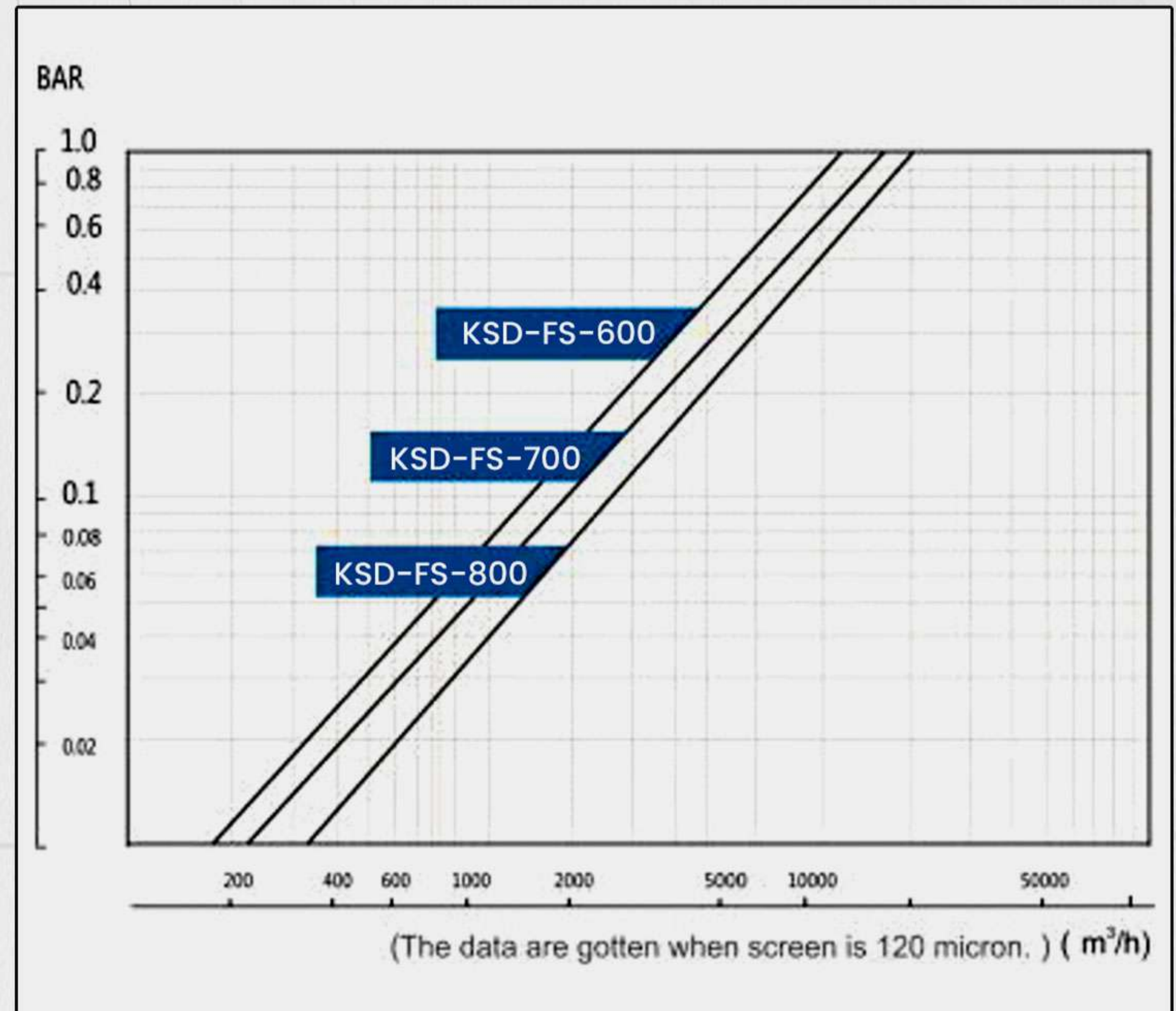
MODEL CLARIFICATION



INSTALLATION FIGURE



THE TABLE PRESSURE LOSS



TECHNICAL DATA TABLE

MODEL	WATER IN/OUTLET (mm)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	H2 (mm)	DRAIN OUTLET (mm)	FLOW (m ³ /h)	WEIGHT (Kg.)
KSD-FS-600	600	1985	1600	880	2210	3250	60	2650	2365
KSD-FS-700	700	1985	1600	975	2386	3340	65	3580	2855
KSD-FS-800	800	2145	1800	1053	2490	3690	80	5000	3310
KSD-FS-900	900	2145	1800	1255	2698	3900	80	6400	4220

ELECTRIC BRUSH SELF-CLEANING FILTER



TYPE KSD-FZ Series

The KUSATSU Electric Brush Self-Cleaning Filter KSD-FZ Series is designed to provide efficient and automated filtration for industrial water treatment applications. Water flows through the filter screen where suspended particles and impurities are captured, while clean water continues through the outlet. As contaminants accumulate on the screen surface, the differential pressure gradually increases until the preset cleaning threshold is reached, automatically initiating the cleaning cycle. The self-cleaning process combines automatic flushing and mechanical brushing to maintain filtration efficiency. During the cycle, the drain valve opens to discharge accumulated solids while motor-driven brushes remove debris from the screen surface. This operation takes place without interrupting filtration, ensuring a continuous supply of filtered water. The FZ Series features an intelligent control system with differential pressure, timer, manual, and PLC operating modes for reliable and flexible performance.



Easy Maintenance



Efficient Filtration

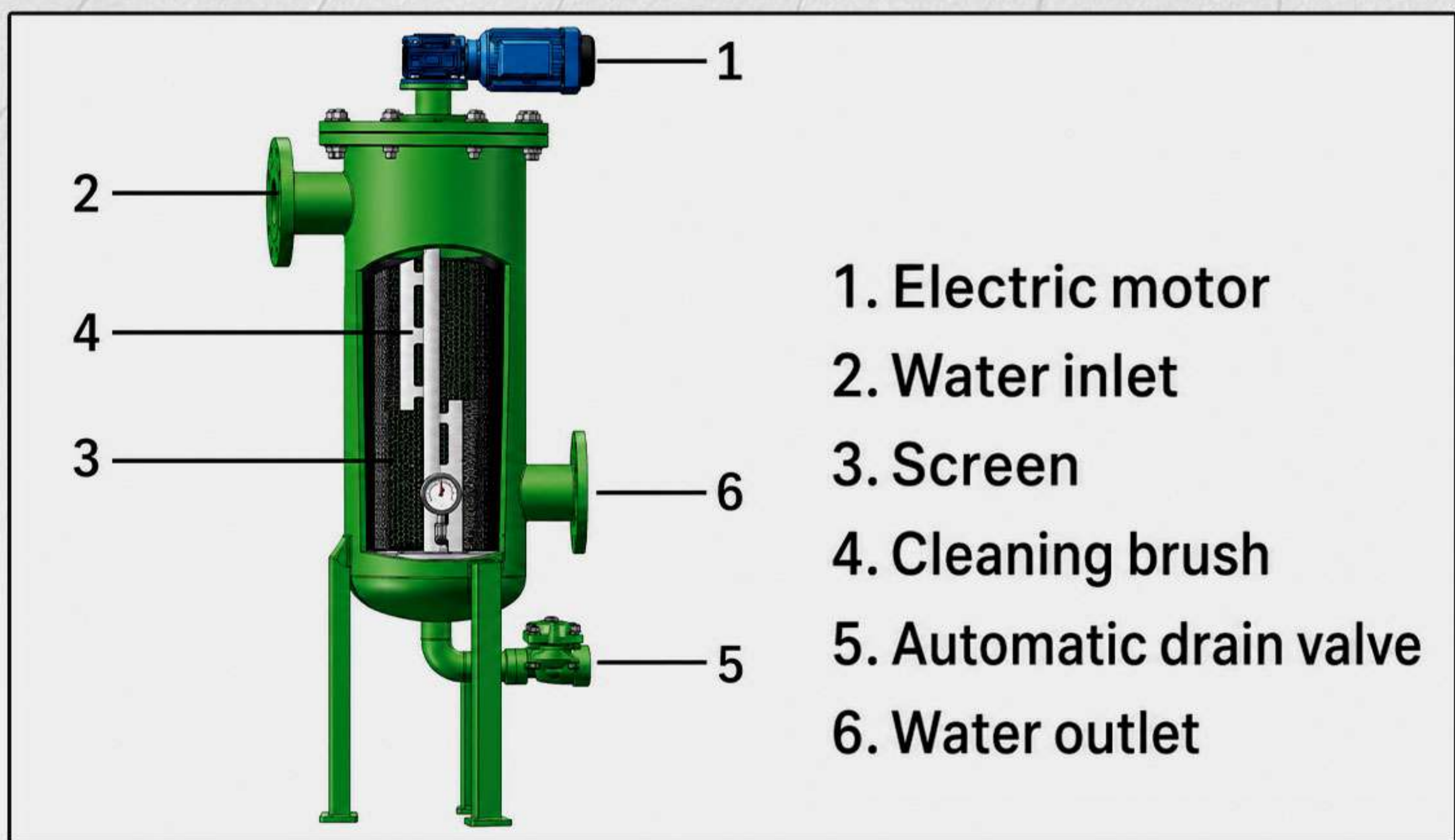


Reliable Performance



Durable Construction

PRODUCT STRUCTURE CHART



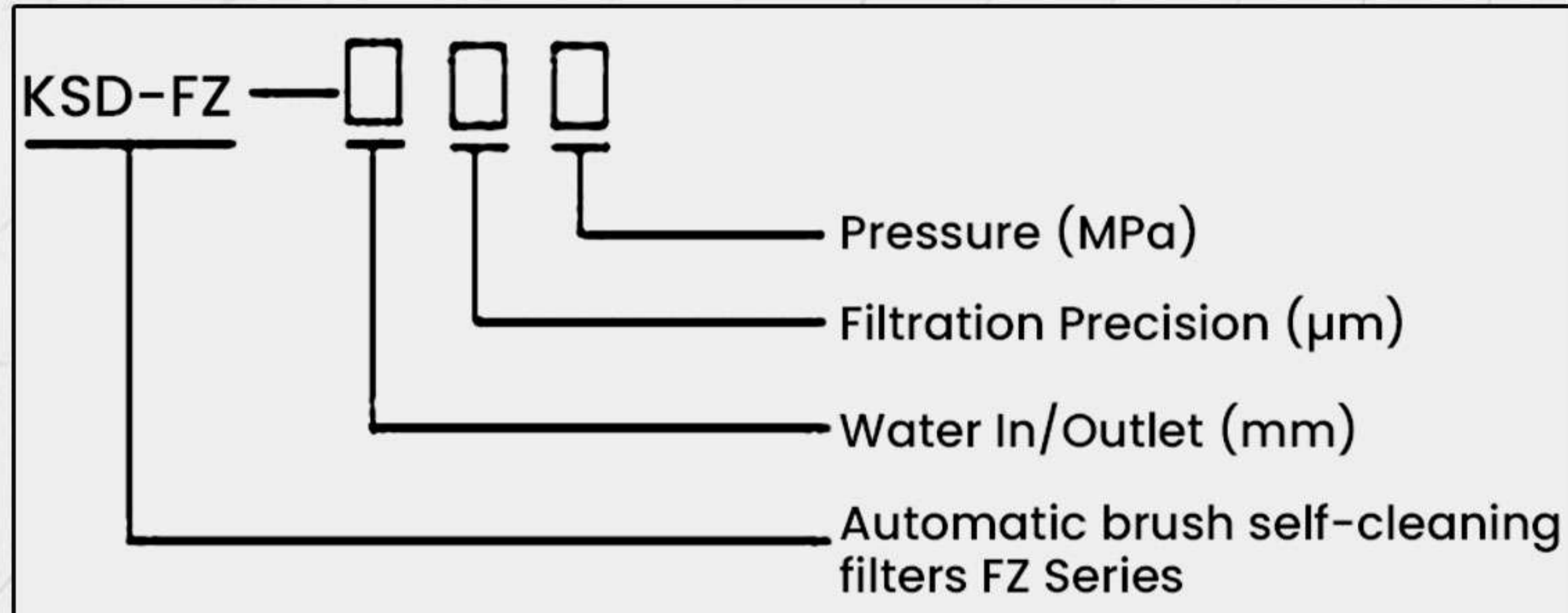
FILTER MATERIAL	
HOUSING	Carbon steel/304 Stainless steel/316L
MESH	304 Stainless steel/316L
SUCKING SCANNER	304 Stainless steel/316L
DRAIN VALVE	Casting iron, Copper, Stainless steel, Nylon
CONTROL BOX	PVC/Aluminium
SEALING RING	EPDM Rubber

TECHNICAL PARAMETER	
Single Maximum Filter Flow	2000 m ³ /h
Filtration Range	4000µm-20µm
Max Working Pressure	≤16 bar (customized)
Min Working Pressure	≥1 bar
Working Temperature	≤65°C
Power	380V/50Hz (customized)
Control Way	Pressure difference/Time/Manually/PLC
Cleaning Way	Brush
Cleaning Time	10~200 seconds (optional)
Drilling	(4000-800µm)
Wedge	(1000-50µm)
Woven Composite	(800-20µm)

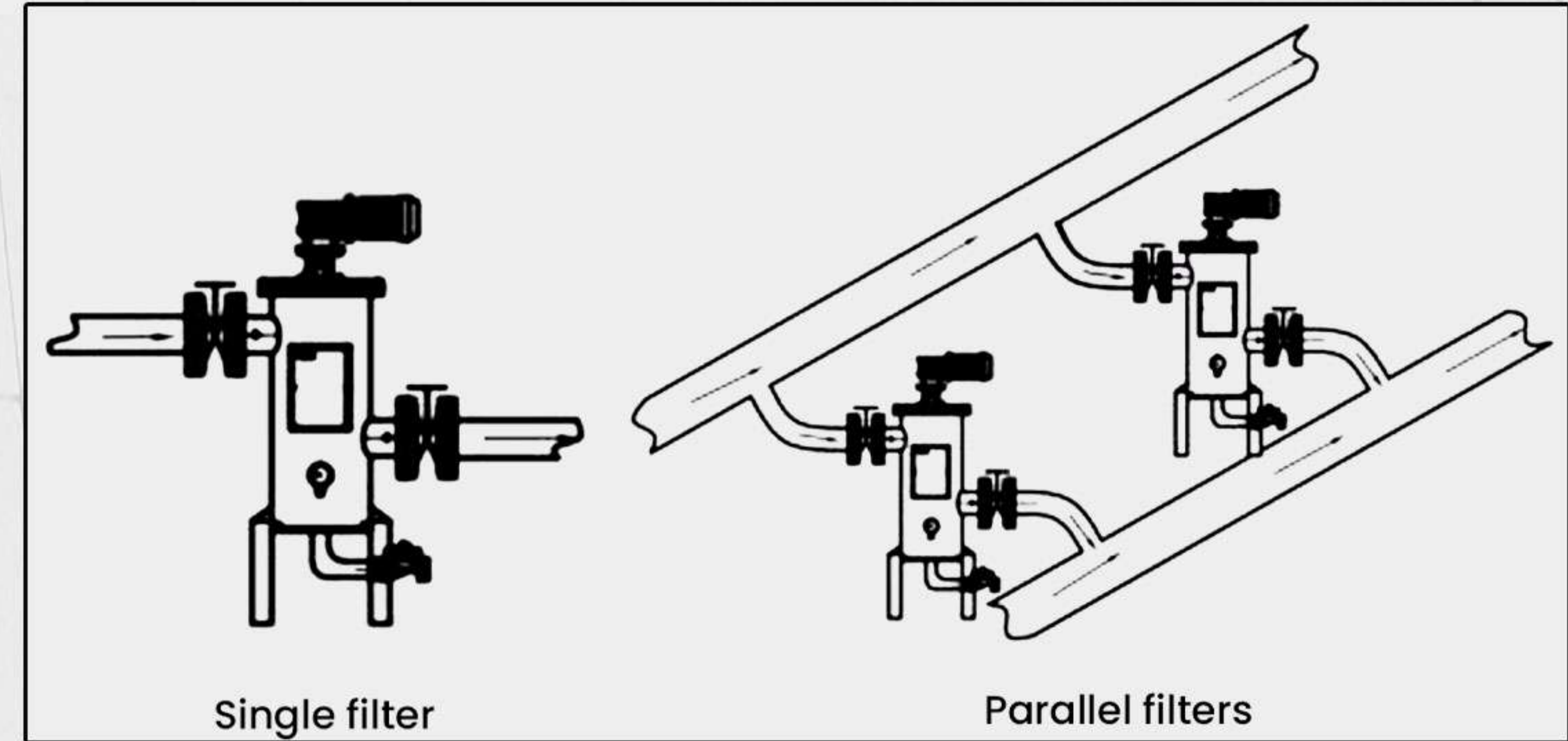
ELECTRIC BRUSH SELF-CLEANING FILTER

TYPE KSD-FZ Series

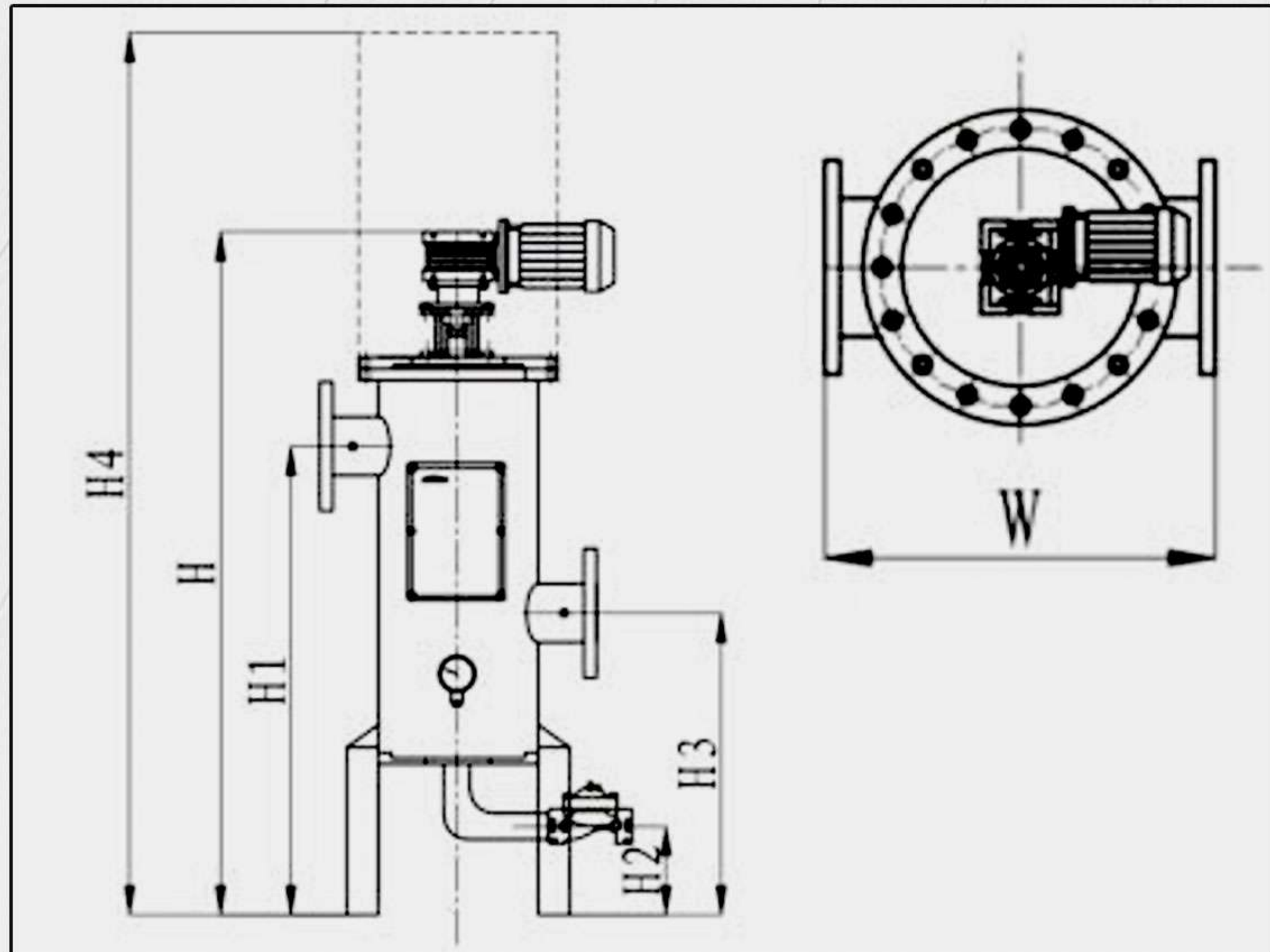
MODEL CLARIFICATION



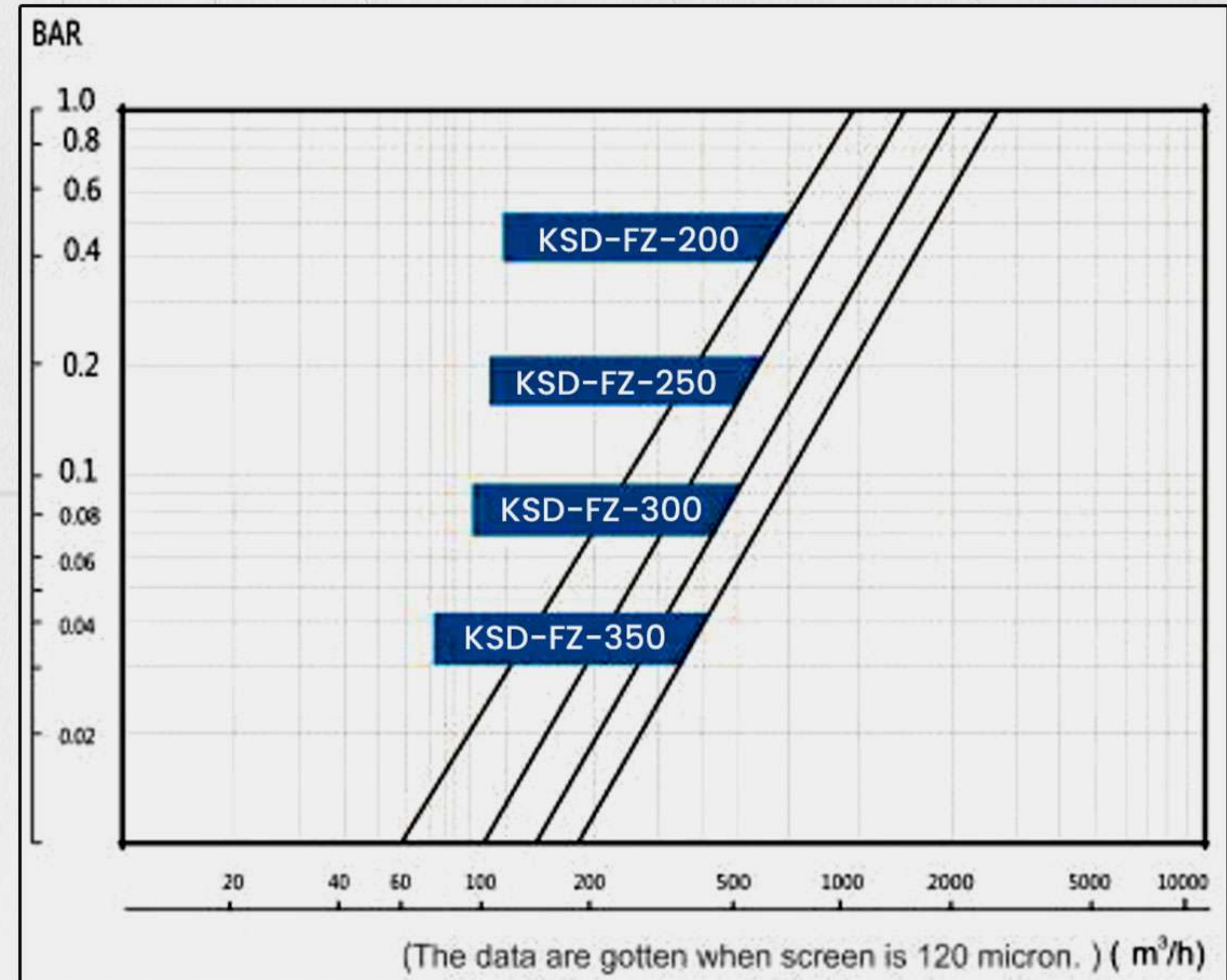
INSTALLATION FIGURE



SIZE CHART



THE TABLE PRESSURE LOSS



TECHNICAL DATA TABLE

MODEL	WATER IN/OUTLET (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	W (mm)	DRAIN OUTLET (mm)	MOTOR POWER (kW)	FLOW (m³/h)	WEIGHT (Kg.)
KSD-FZ-50	50	970	670	200	425	1170	453	25	0.12	19	50
KSD-FZ-65	65	970	670	200	425	1170	453	25	0.12	30	70
KSD-FZ-80	80	1010	690	200	425	1210	473	40	0.12	50	87
KSD-FZ-100	100	1280	950	200	550	1580	473	40	0.18	80	106
KSD-FZ-150	150	1470	1110	200	630	1870	473	50	0.18	150	197
KSD-FZ-200	200	1860	1310	200	720	2360	617	50	0.25	320	248
KSD-FZ-250	250	1985	1385	200	745	2490	720	50	0.25	490	360
KSD-FZ-300	300	2350	1660	150	845	3150	770	50	0.37	710	486
KSD-FZ-350	350	2350	1660	150	845	3150	770	50	0.37	970	653
KSD-FZ-400	400	2505	1725	150	845	3310	930	50	0.37	1260	765
KSD-FZ-450	450	2555	1750	150	845	3360	1020	50	0.37	1600	814
KSD-FZ-500	500	2600	1775	150	845	3500	1020	65	0.55	1970	920

ELECTRIC SUCKING SELF-CLEANING FILTER

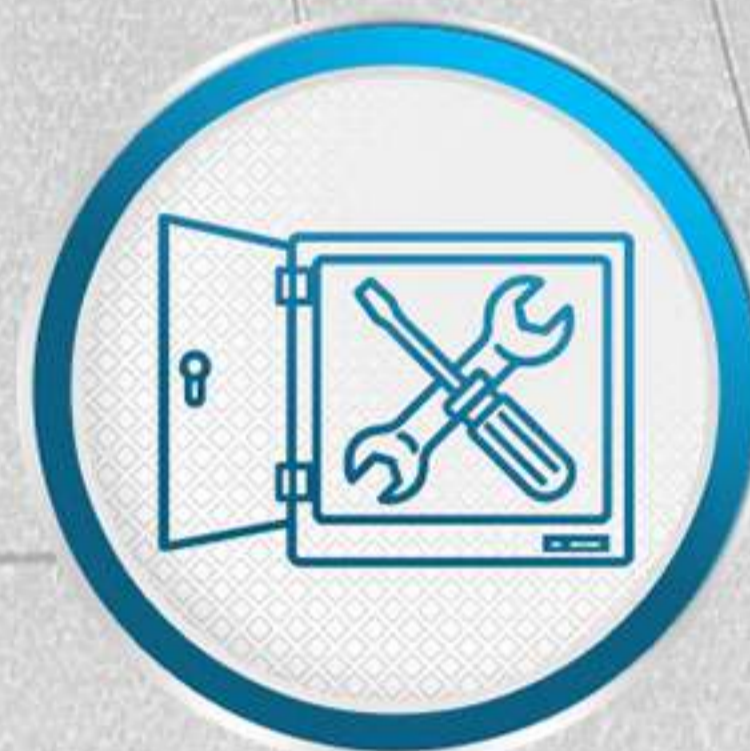
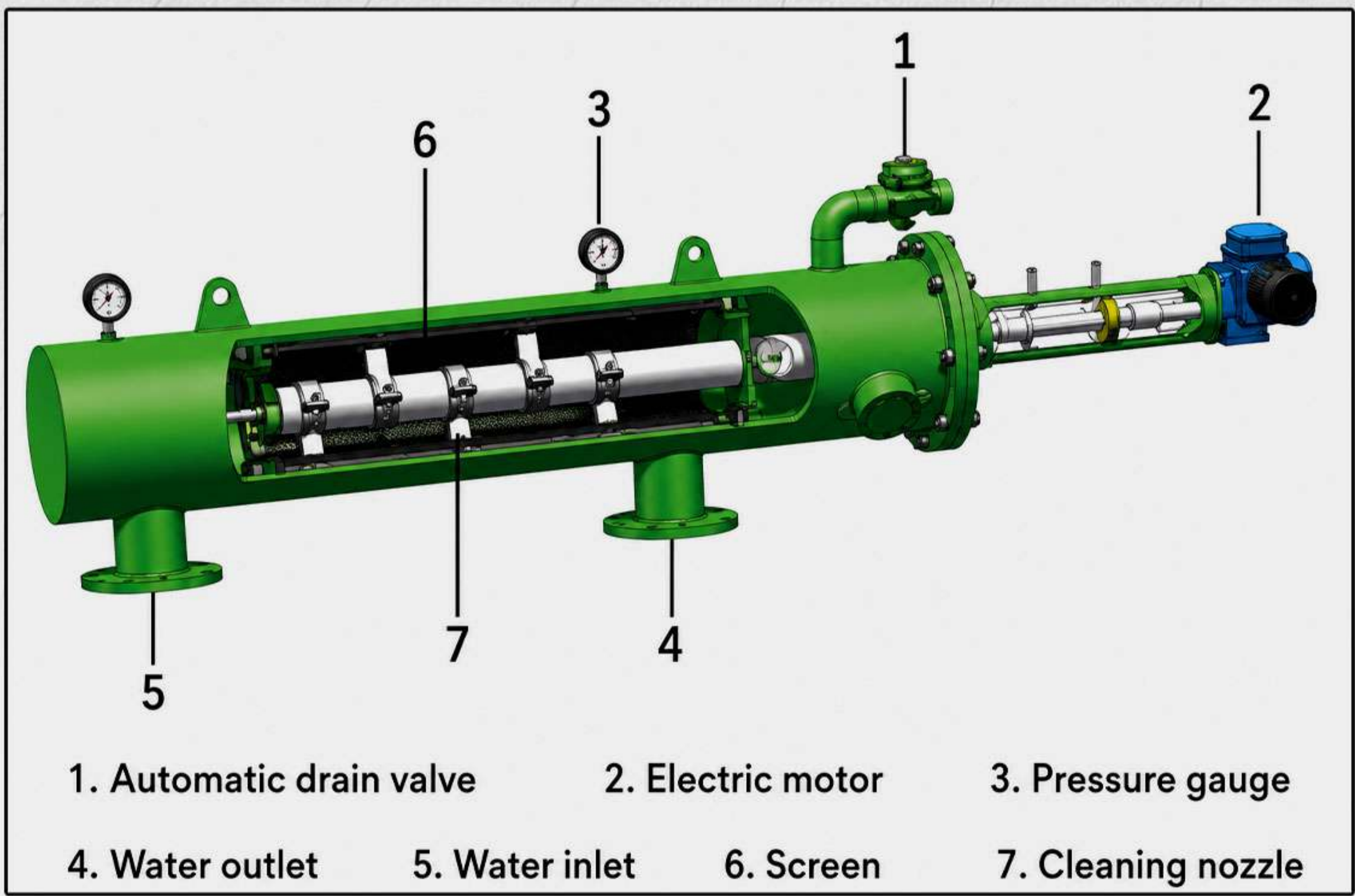


TYPE KSX-FW Series

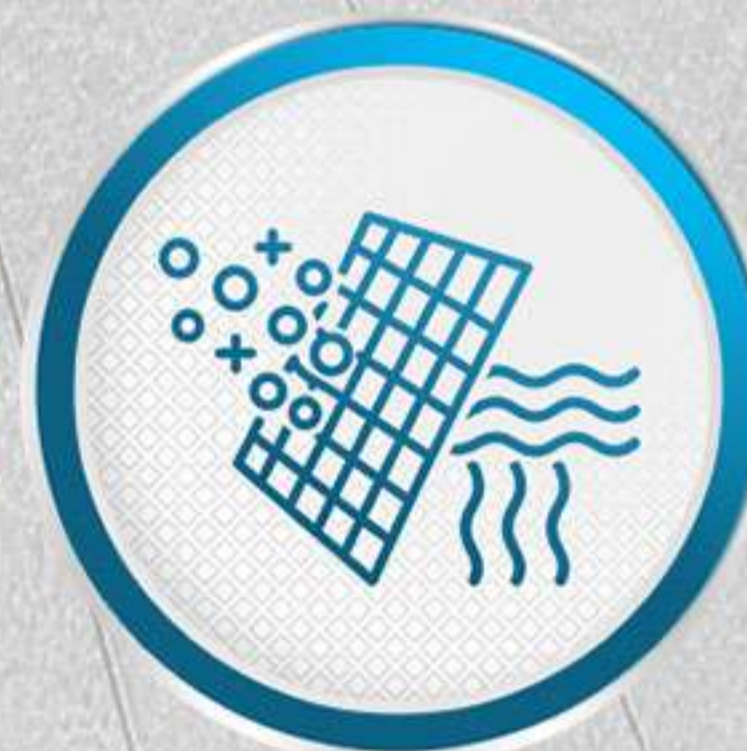
The KUSATSU Electric Sucking Self-Cleaning Filter KSX-FW Series is designed to provide continuous and efficient filtration for industrial water systems. Water flows through the filter screen where suspended particles are retained on the inner surface, while clean water passes through the outlet. As contaminants accumulate, the pressure differential gradually increases until the preset value is reached, automatically activating the self-cleaning cycle. The cleaning process utilizes a suction scanner with negative-pressure technology to efficiently remove accumulated impurities from the screen surface. Driven by a hydraulic motor, the scanner moves across the screen in a reciprocating motion, ensuring thorough cleaning without blind spots. Collected contaminants are discharged through the drain outlet while filtration remains in operation. The cleaning cycle is automatically controlled and optimized to minimize water consumption, providing reliable performance and reduced maintenance requirements.



PRODUCT STRUCTURE CHART



Easy Maintenance



Efficient Filtration



Reliable Performance



Durable Construction

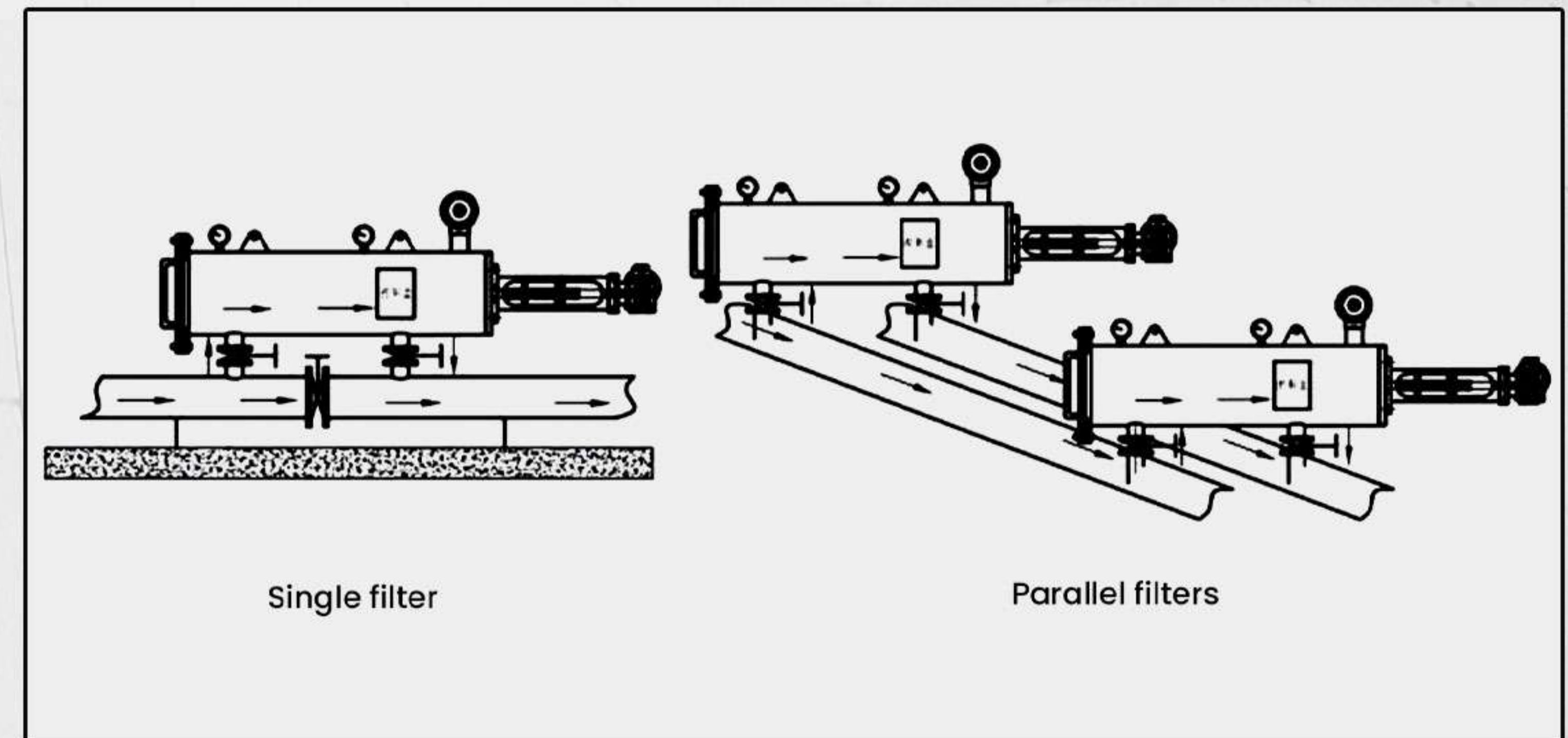
TECHNICAL PARAMETER	
Single Maximum Filter Flow	1200 m ³ /h
Filtration Range	4000μm-20μm
Max Working Pressure	≤16 bar (customized)
Min Working Pressure	≥1 bar
Working Temperature	≤65°C
Power	380V/50Hz (customized)
Control Way	pressure difference/ time/manually/PLC
Cleaning Way	Sucking type
Cleaning Time	10~200 seconds (optional)
Drilling	(4000-800μm)
Wedge	(1000-50μm)
Woven Composite	(800-20μm)
Motor Power	0.18-1.5KW

FILTER MATERIAL	
HOUSING	Carbon steel/304 Stainless steel/316L
MESH	304 Stainless steel/316L
SUCKING SCANNER	304 Stainless steel/316L
DRAIN VALVE	Casting iron, Copper, Stainless steel, Nylon
CONTROL BOX	PVC/Aluminium
SEALING RING	EPDM Rubber

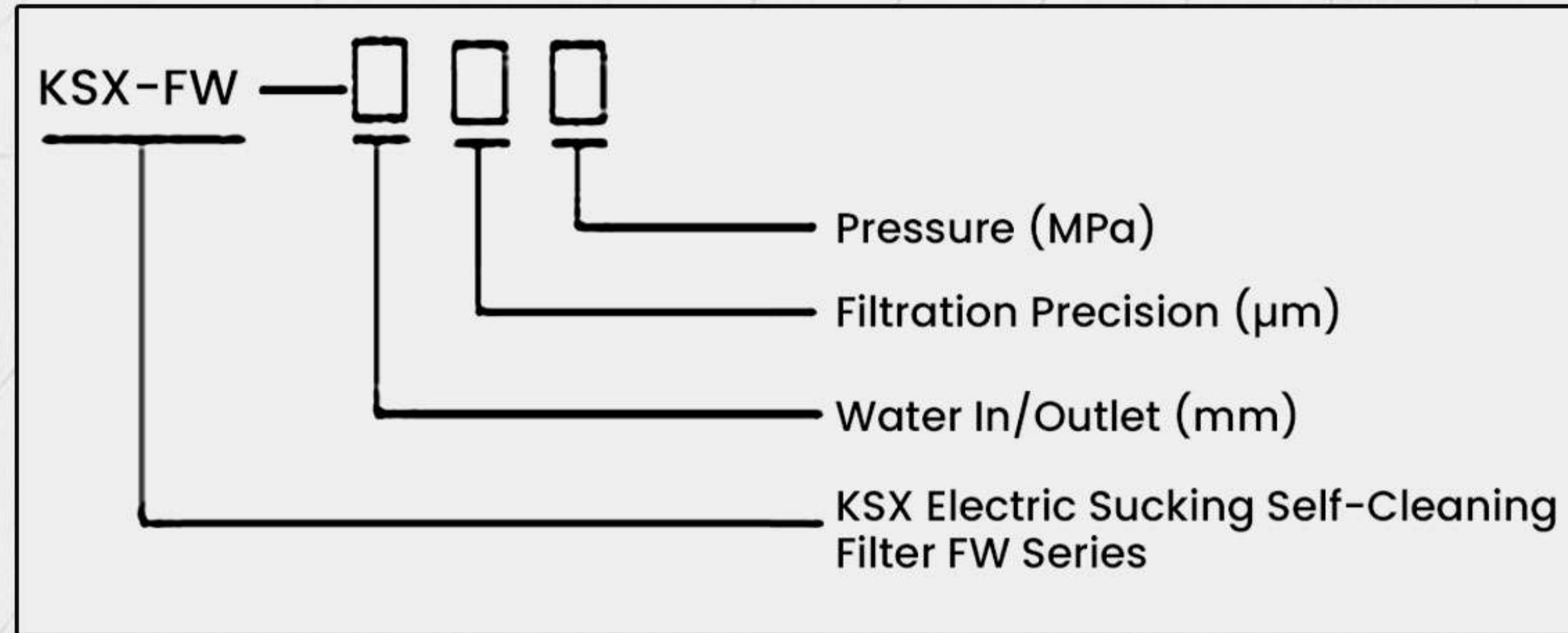
ELECTRIC SUCKING SELF-CLEANING FILTER

TYPE KSX-FW Series

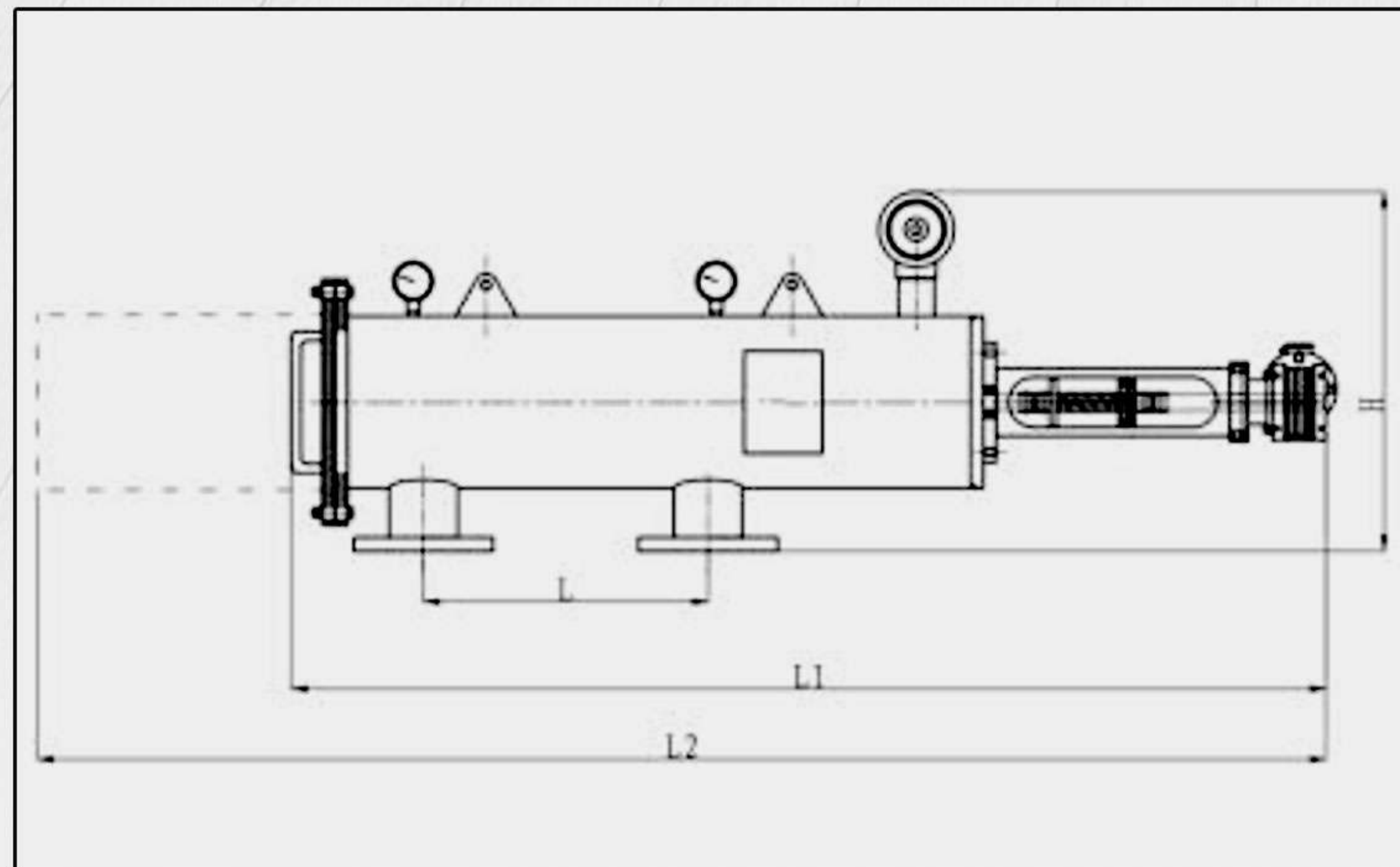
INSTALLATION FIGURE



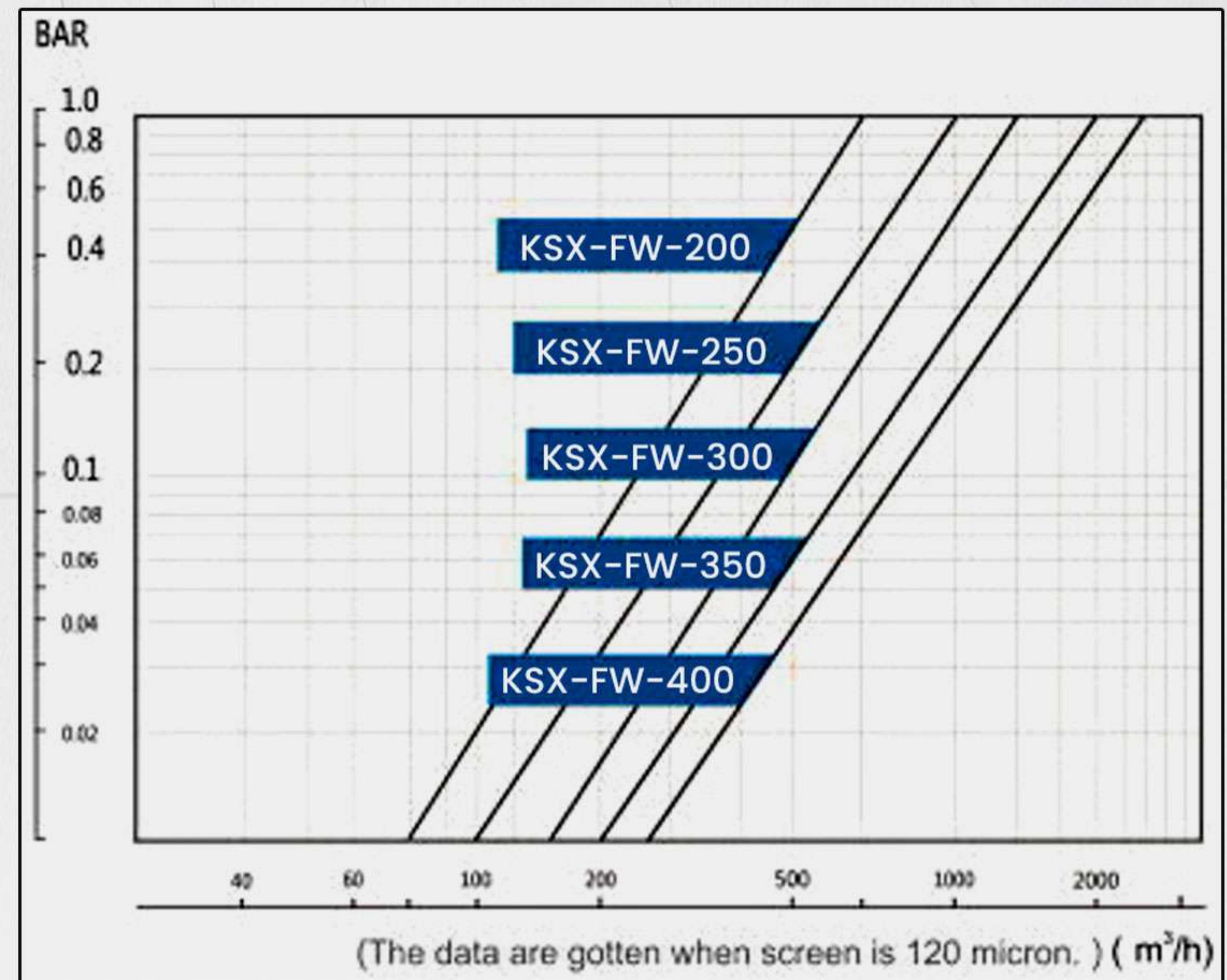
MODEL CLARIFICATION



SIZE CHART



THE TABLE PRESSURE LOSS



TECHNICAL DATA TABLE

MODEL	WATER IN/OUTLET (mm)	L (mm)	L1 (mm)	L2 (mm)	H (mm)	DRAIN OUTLET (mm)	MOTOR POWER (KW)	FLOW (m^3/h)	WEIGHT (Kg.)
KSX-FW-80	80	450	1775	2475	493	40	0.25	50	180
KSX-FW-100	100	450	1775	2475	493	40	0.25	80	198
KSX-FW-150	150	900	2175	3175	545	50	0.25	150	328
KSX-FW-200	200	900	2175	3175	617	50	0.25	320	375
KSX-FW-250	250	1100	3110	4910	720	50	0.25	450	470
KSX-FW-300	300	1100	3110	4910	810	50	0.55	600	519
KSX-FW-350	350	1100	3110	4910	810	50	0.55	850	660
KSX-FW-400	400	1100	3110	4910	910	50	0.55	1200	708

ELECTRIC SUCKING SELF-CLEANING FILTER



TYPE KSX-FL Series

The KUSATSU Electric Sucking Self-Cleaning Filter KSX-FL Series is engineered to provide reliable filtration and automatic cleaning for industrial water treatment systems. Water passes through the filter screen where suspended solids are captured on the inner surface, allowing clean water to flow continuously through the outlet. As impurities accumulate and the differential pressure reaches the preset value, the system automatically initiates the self-cleaning process to maintain optimal filtration performance.

The cleaning mechanism utilizes a suction scanner that generates negative pressure to effectively remove contaminants from the screen surface. Driven by a hydraulic motor, the scanner travels across the screen in a reciprocating motion, ensuring complete cleaning coverage without blind spots. Collected debris is discharged through the drain outlet while filtration remains uninterrupted. The cleaning cycle is controlled automatically and designed to reduce water consumption, providing efficient operation and lower maintenance requirements.



Easy Maintenance



Efficient Filtration

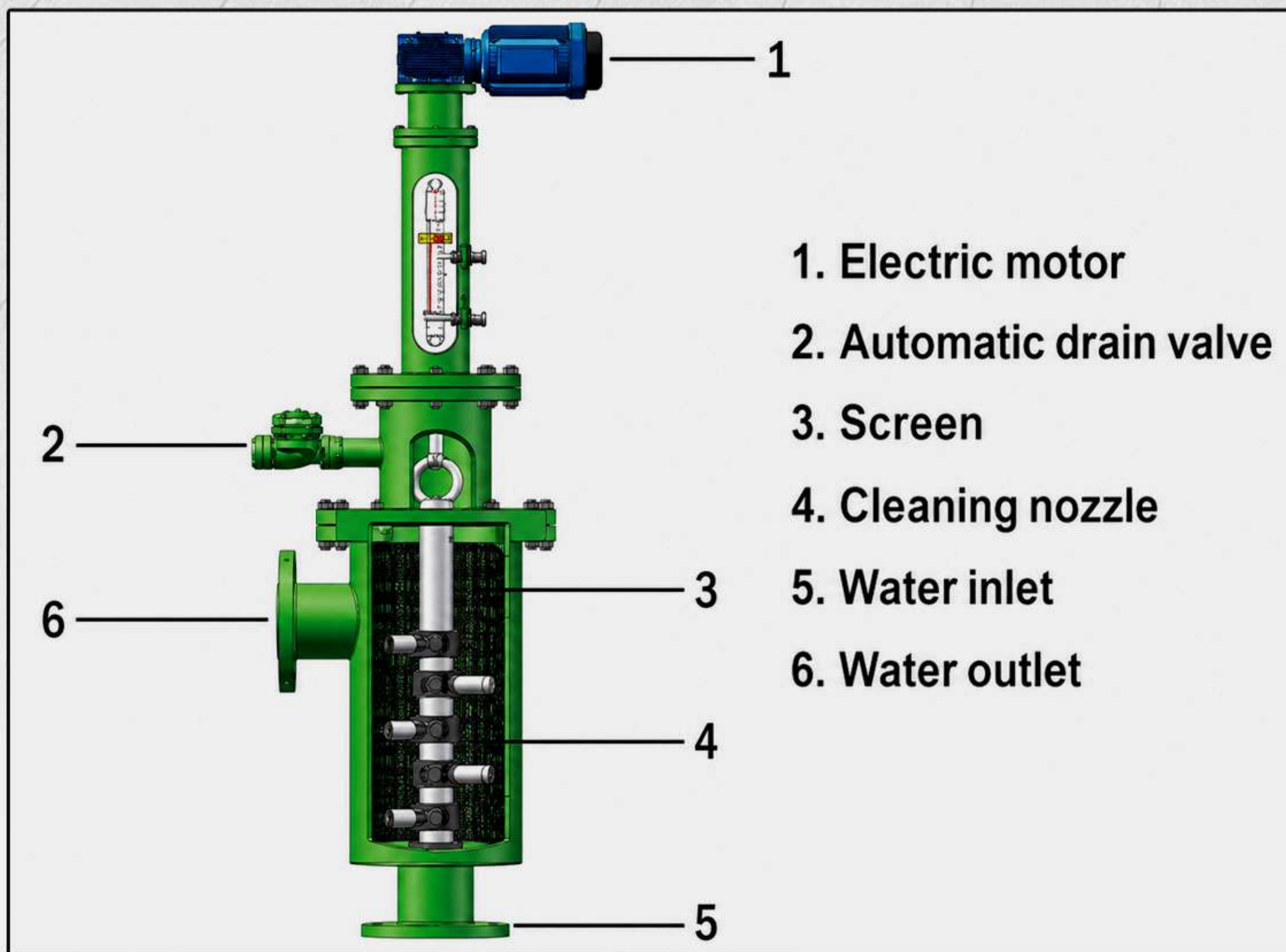


Reliable Performance



Durable Construction

PRODUCT STRUCTURE CHART



FILTER MATERIAL	
HOUSING	Carbon steel/304 Stainless steel/316L
MESH	304 Stainless steel/316L
SUCKING SCANNER	304 Stainless steel/316L
DRAIN VALVE	Casting iron, Copper, Stainless steel, Nylon
CONTROL BOX	PVC/Aluminium
SEALING RING	EPDM Rubber

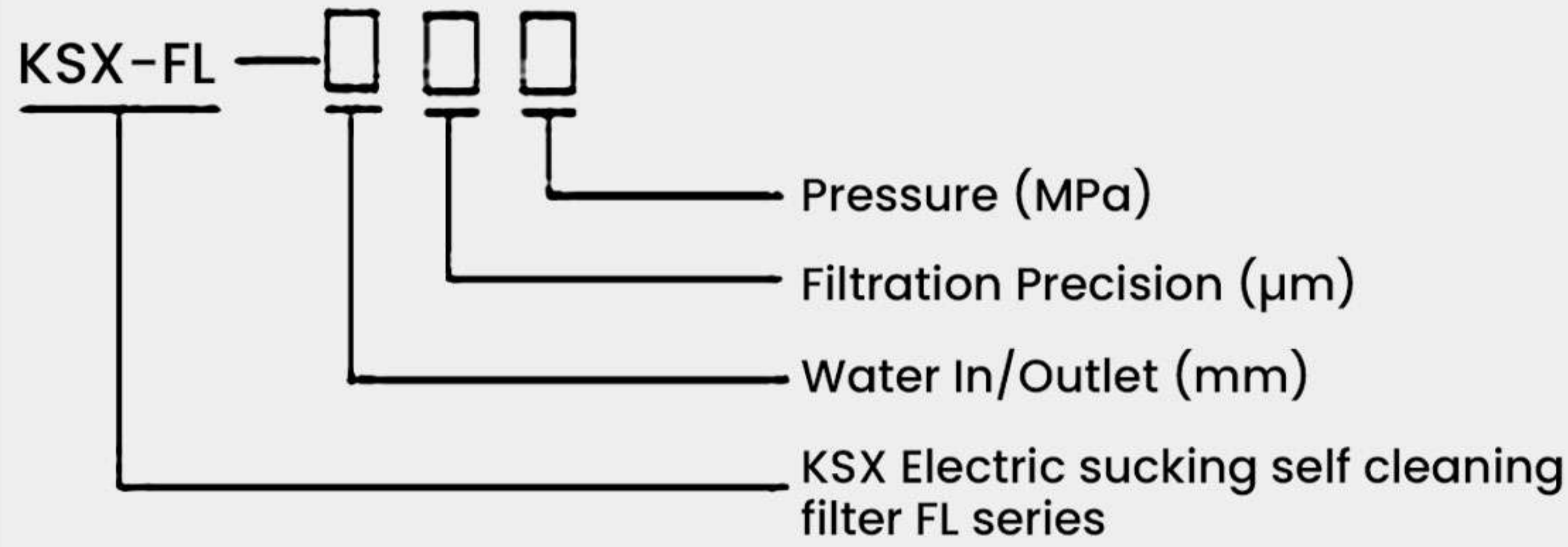


TECHNICAL PARAMETER	
Single Maximum Filter Flow	2000 m ³ /h
Filtration Range	4000μm-20μm
Max Working Pressure	≤16 bar (customized)
Min Working Pressure	≥1 bar
Working Temperature	≤65°C
Power	380V/50Hz (customized)
Control Way	Pressure difference/ Time/Manually/PLC
Cleaning Time	10-200 seconds (optional)
Drilling	(4000-800μm)
Wedge	(1000-50μm)
Woven Composite	(800-20μm)

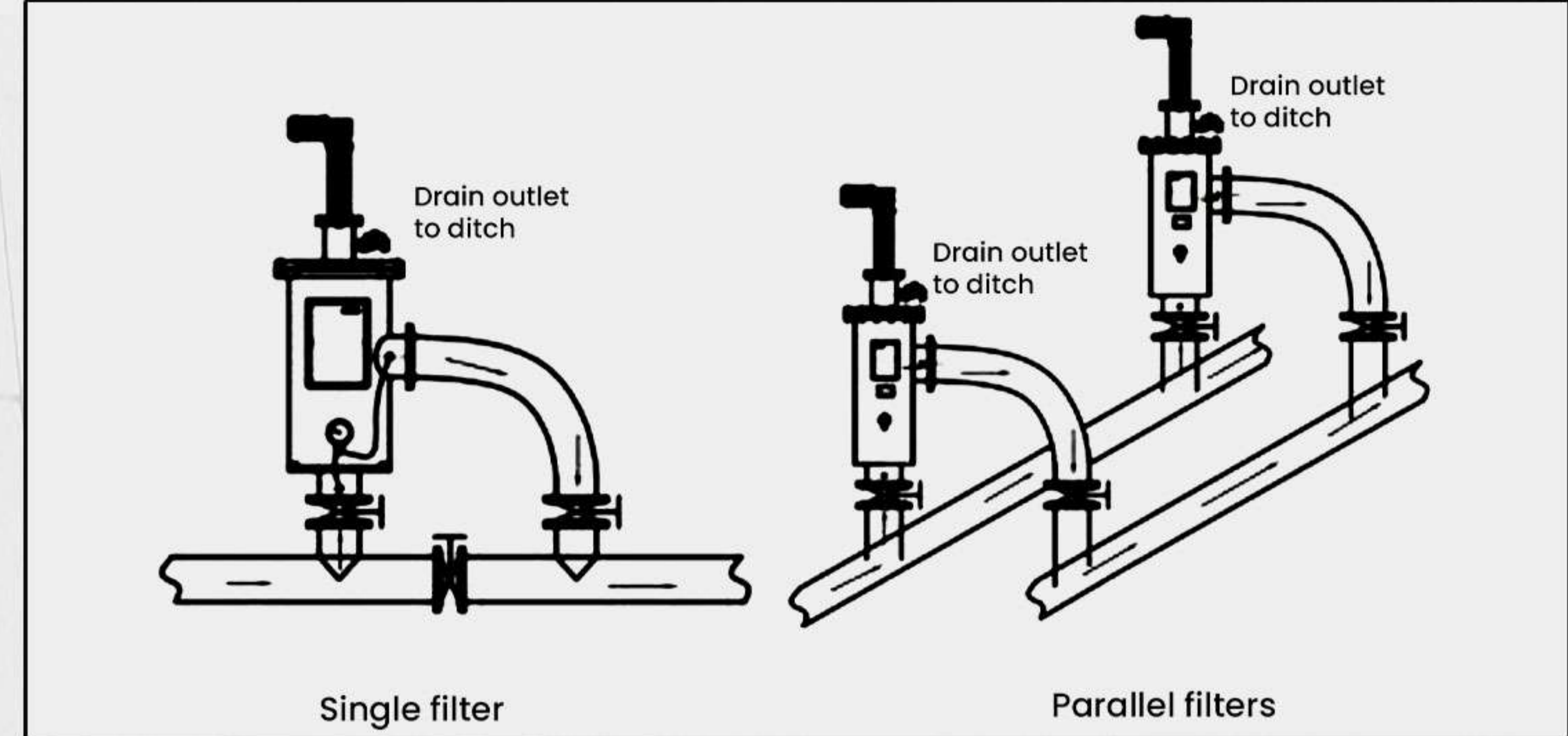
ELECTRIC SUCKING SELF-CLEANING FILTER

TYPE KSX-FL Series

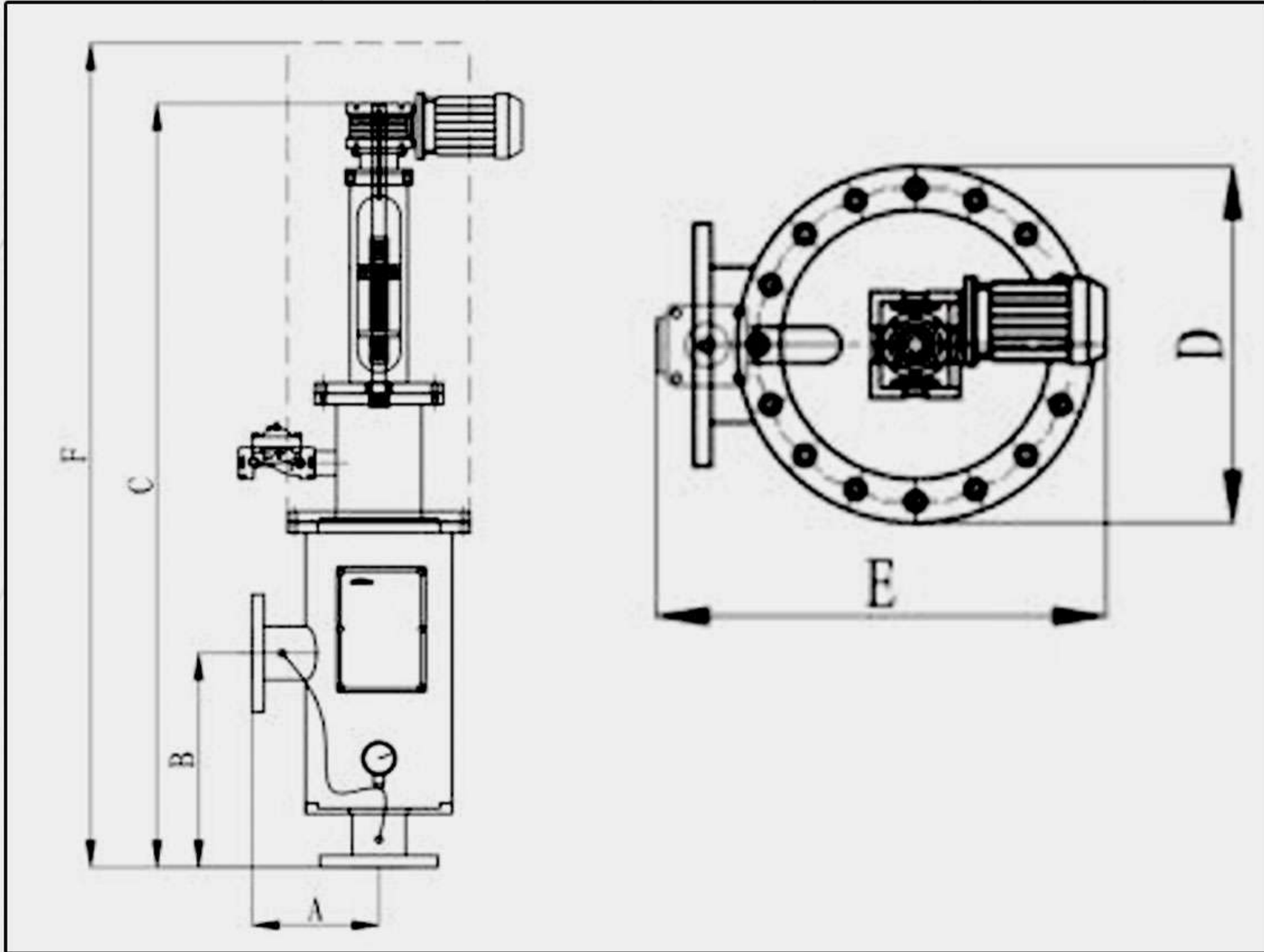
MODEL CLARIFICATION



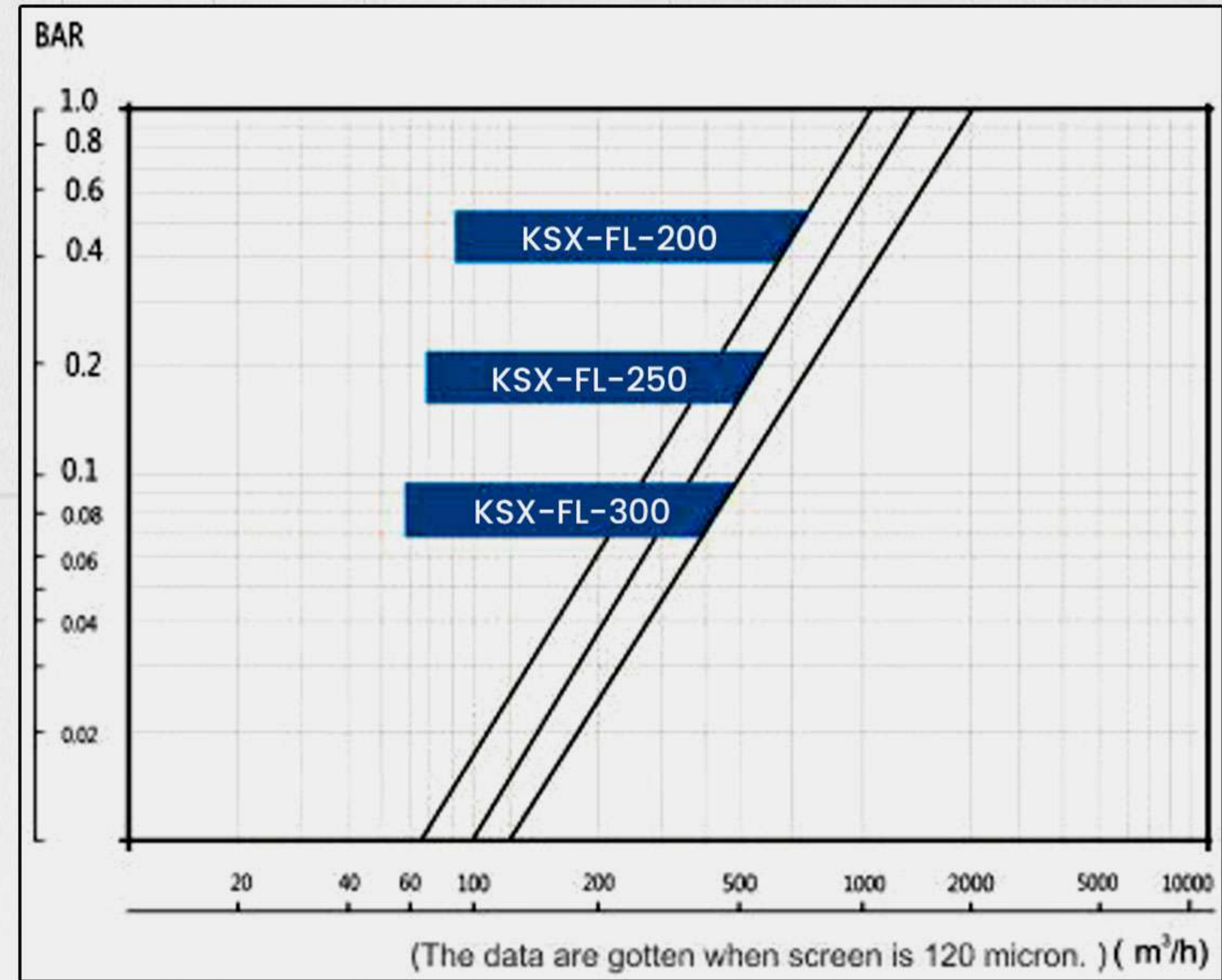
INSTALLATION FIGURE



SIZE CHART



THE TABLE PRESSURE LOSS



TECHNICAL DATA TABLE

MODEL	WATER IN/OUTLET (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	DRAIN OUTLET (mm)	FLOW (m ³ /h)	MOTOR POWER (KW)	WEIGHT (Kg.)
KSX-FL-50	50	240	250	1177	560	340	1277	25	19	0.25	50
KSX-FL-65	65	240	250	1177	560	340	1277	25	30	0.25	70
KSX-FL-80	80	240	250	1177	560	340	1277	40	50	0.25	80
KSX-FL-100	100	240	400	1427	560	340	1527	40	80	0.25	105
KSX-FL-150	150	240	490	1557	560	340	1660	50	150	0.25	180
KSX-FL-200	200	285	685	2057	560	377	2260	50	320	0.25	235
KSX-FL-250	250	333	745	2270	583	426	2550	50	490	0.25	280
KSX-FL-300	300	395	830	2445	635	530	3095	50	710	0.25	420

HYDRAULIC SELF-CLEANING FILTER

TYPE KSAF-200 Series

The KUSATSU Hydraulic Self-Cleaning Filter KSAF-200 Series is designed to deliver continuous and efficient filtration for industrial water treatment applications. Water passes through the filter screen where suspended particles and contaminants are retained on the inner surface, while clean water flows through the outlet. As debris accumulates and the differential pressure reaches the preset level, the system automatically activates the self-cleaning cycle to maintain stable filtration performance.

The cleaning process utilizes a hydraulically driven suction scanner that creates negative pressure to remove accumulated impurities from the screen surface. The scanner moves across the filter screen in a reciprocating motion, ensuring complete cleaning coverage without blind spots. Collected contaminants are discharged through the drain outlet while filtration continues uninterrupted. Designed for reliable operation with minimal water loss, the KSAF-200 Series provides efficient self-cleaning performance and reduced maintenance requirements.



Easy Maintenance



Efficient Filtration

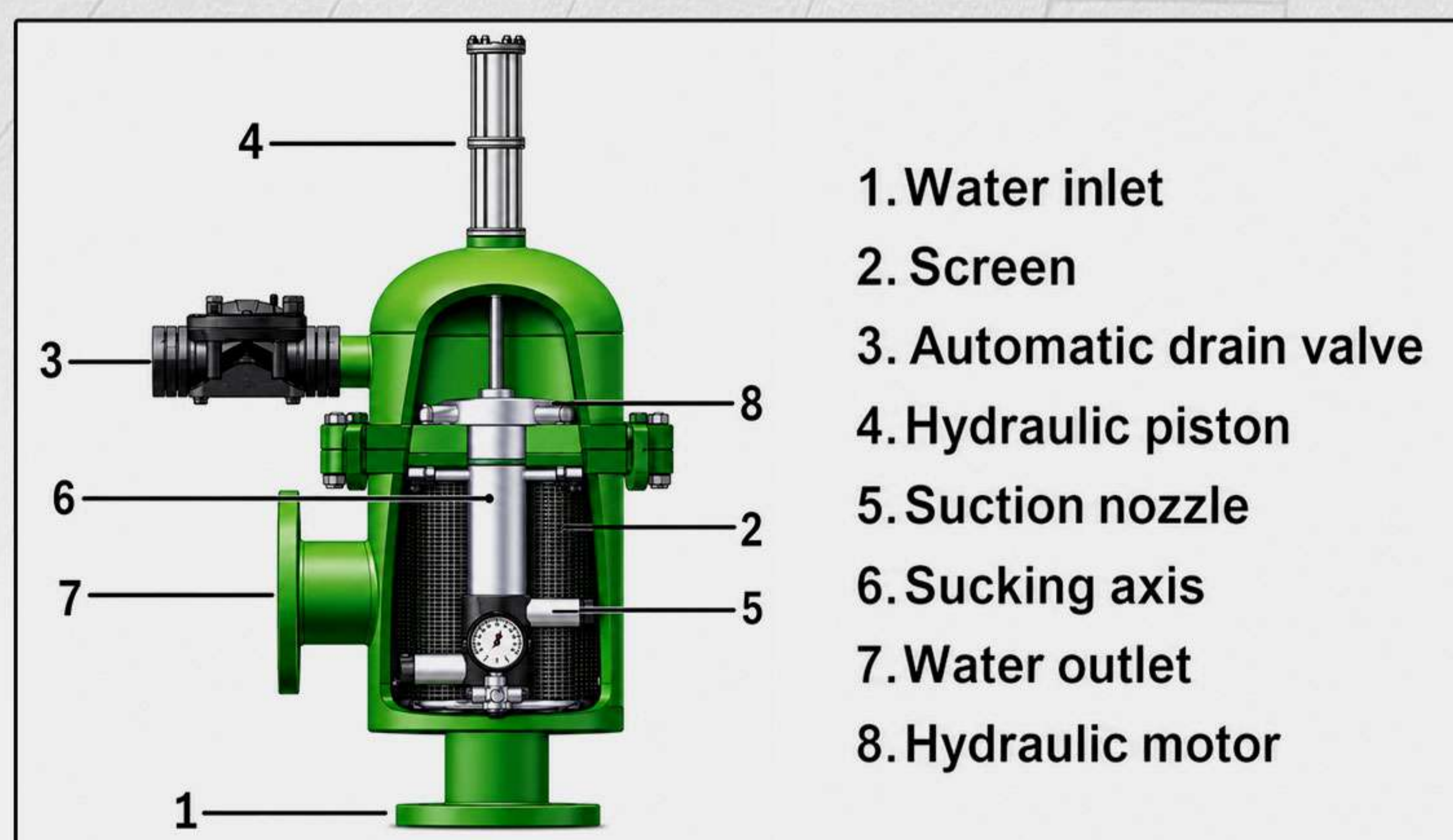


Reliable Performance



Durable Construction

PRODUCT STRUCTURE CHART



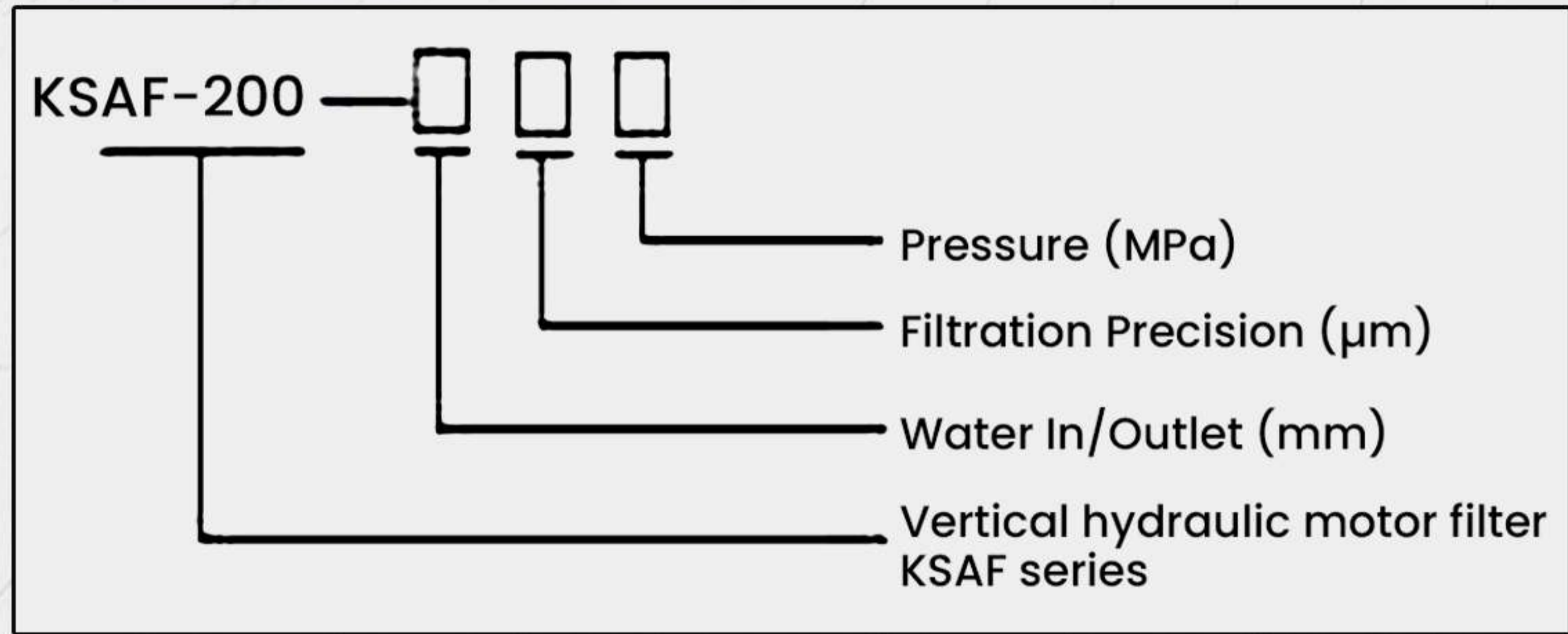
FILTER MATERIAL	
HOUSING	Carbon steel/304 Stainless steel/316L
MESH	304 Stainless steel/316L
SUCKING SCANNER	304 Stainless steel/316L
DRAIN VALVE	Casting iron, Copper, Stainless steel, Nylon
CONTROL BOX	PVC/Aluminium
SEALING RING	EPDM Rubber

TECHNICAL PARAMETER	
Single Filter Flow	10-200 m ³ /h
Filtration Range	25µm-400µm
Max Working Pressure	16 bar
Min Working Pressure	1 bar
Working Temperature	≤85°C
Pressure Loss	0.1 bar
Control Way	Pressure difference/ Time/Manually
Cleaning Time	10-200seconds (optional)
Power	220V/50Hz
Dc	9V
Self-Cleaning Filter Completely Depends on the Water Pressure	Of The System and Without External Power.
Screen Material	SS316L sintered

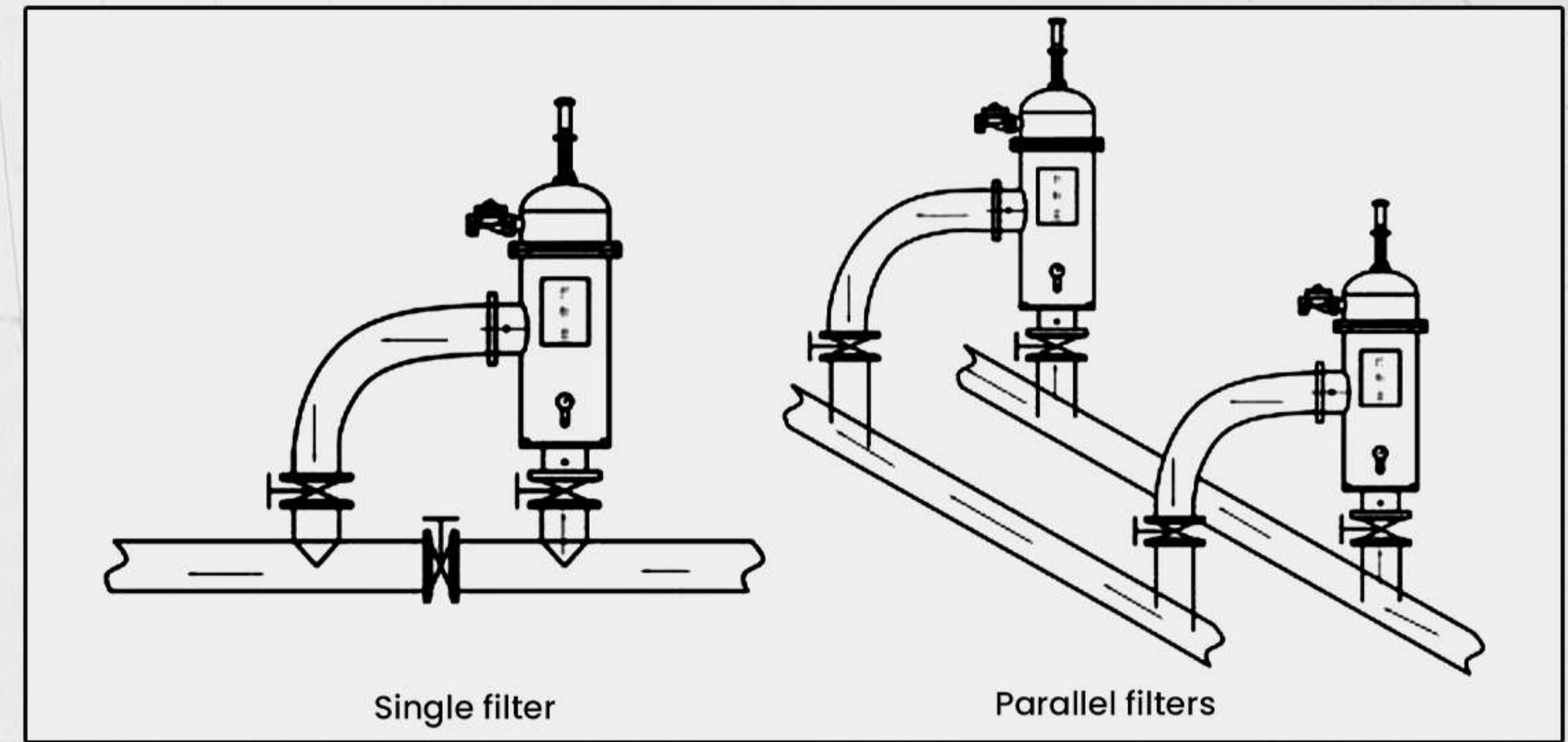
HYDRAULIC SELF-CLEANING FILTER

TYPE KSAF-200 Series

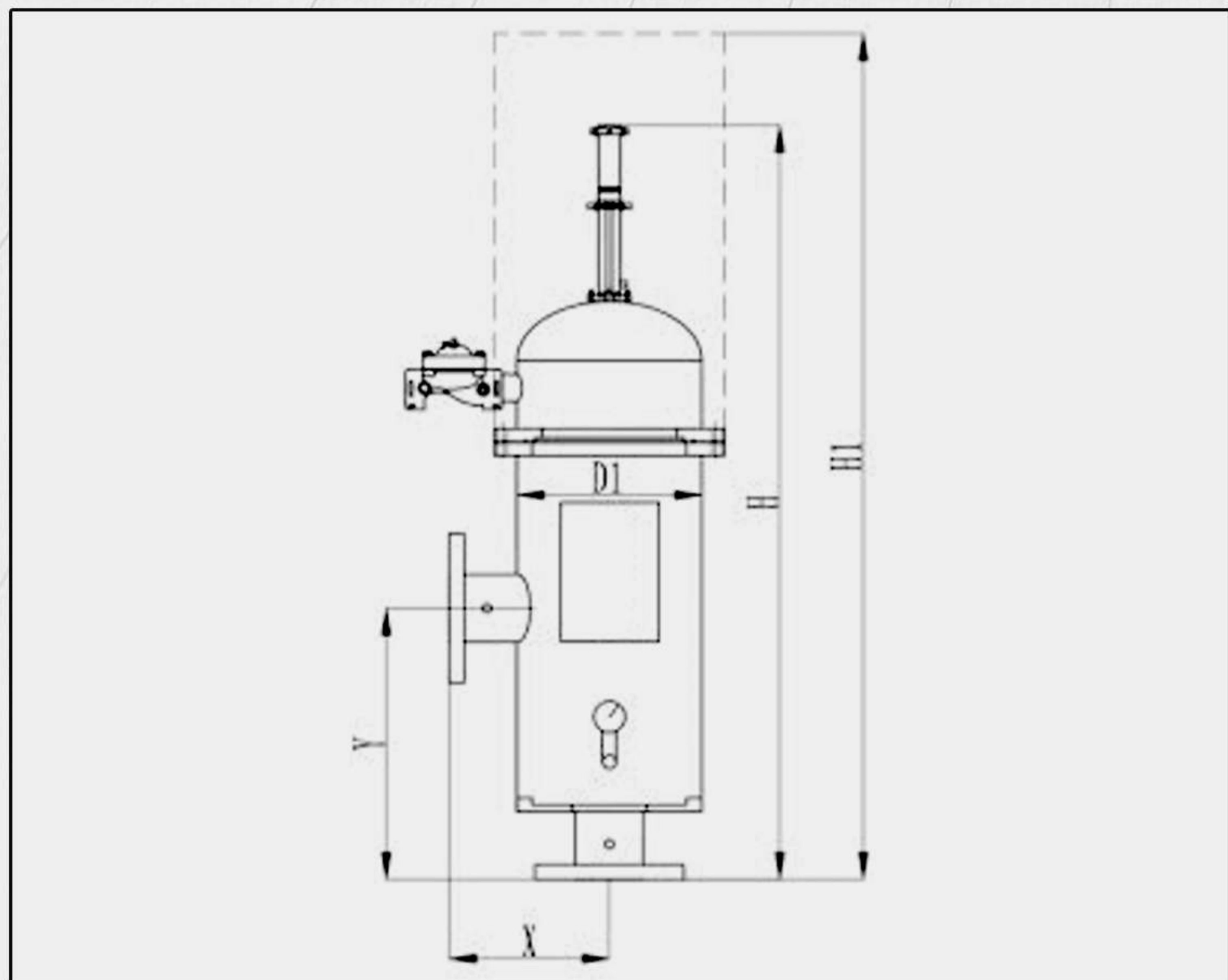
MODEL CLARIFICATION



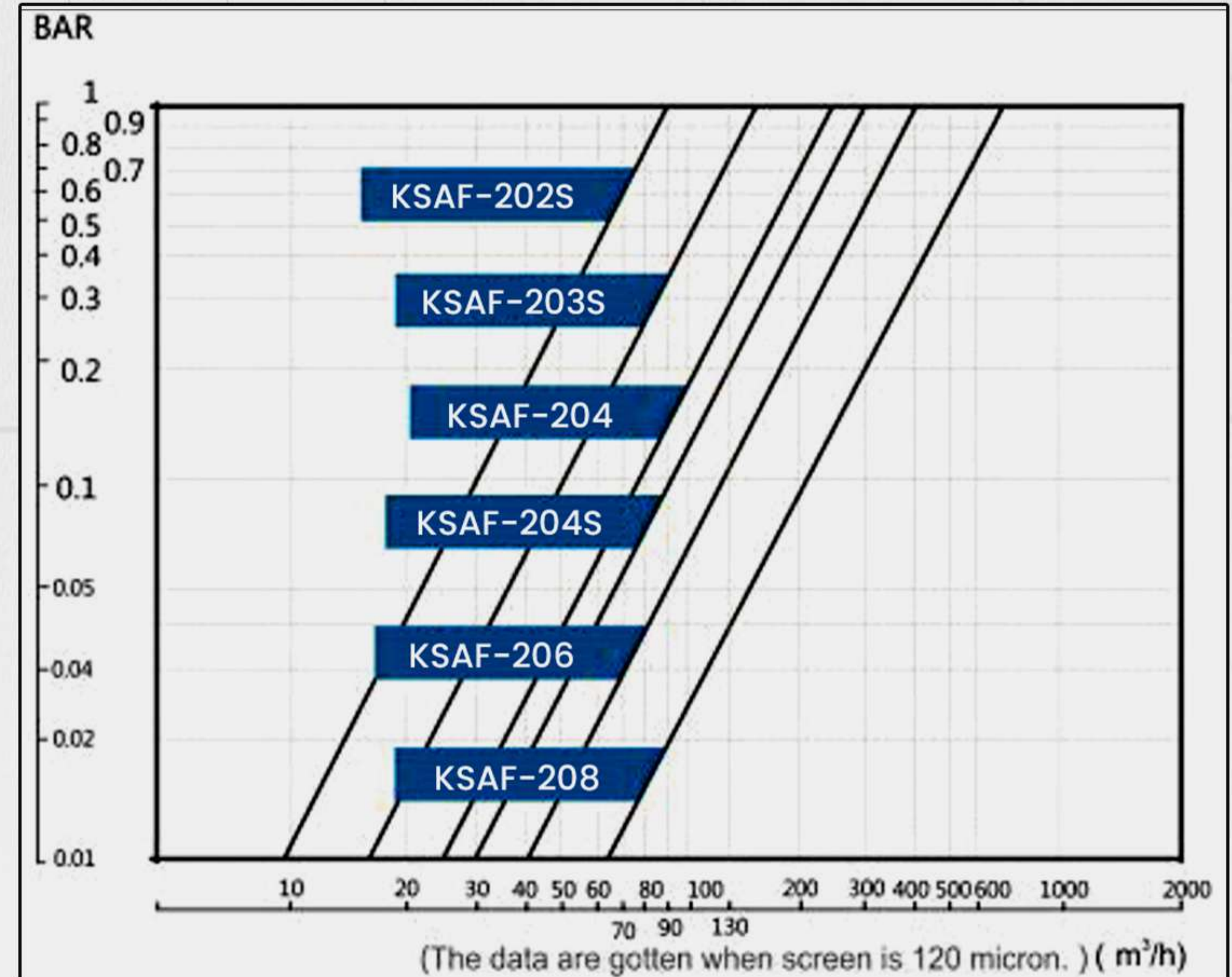
INSTALLATION FIGURE



SIZE CHART



THE TABLE PRESSURE LOSS



TECHNICAL DATA TABLE

MODEL	INLET OUTLET (mm)	SCREEN AREA (cm ²)	D1 (mm)	X (mm)	Y (mm)	H (mm)	H1 (mm)	FLOW (m ³ /h)	WEIGHT (Kg.)
KSAF-202S	50	1720	273	217	150	855	1100	20	20
KSAF-203S	80	1720	273	217	150	855	1100	50	50
KSAF-204	100	1720	273	237	150	855	1630	80	80
KSAF-204S	100	3430	273	237	400	1105	3000	100	100
KSAF-206	150	4330	273	257	450	1255	4500	130	130
KSAF-208	200	5500	325	283	560	1425	5780	200	200

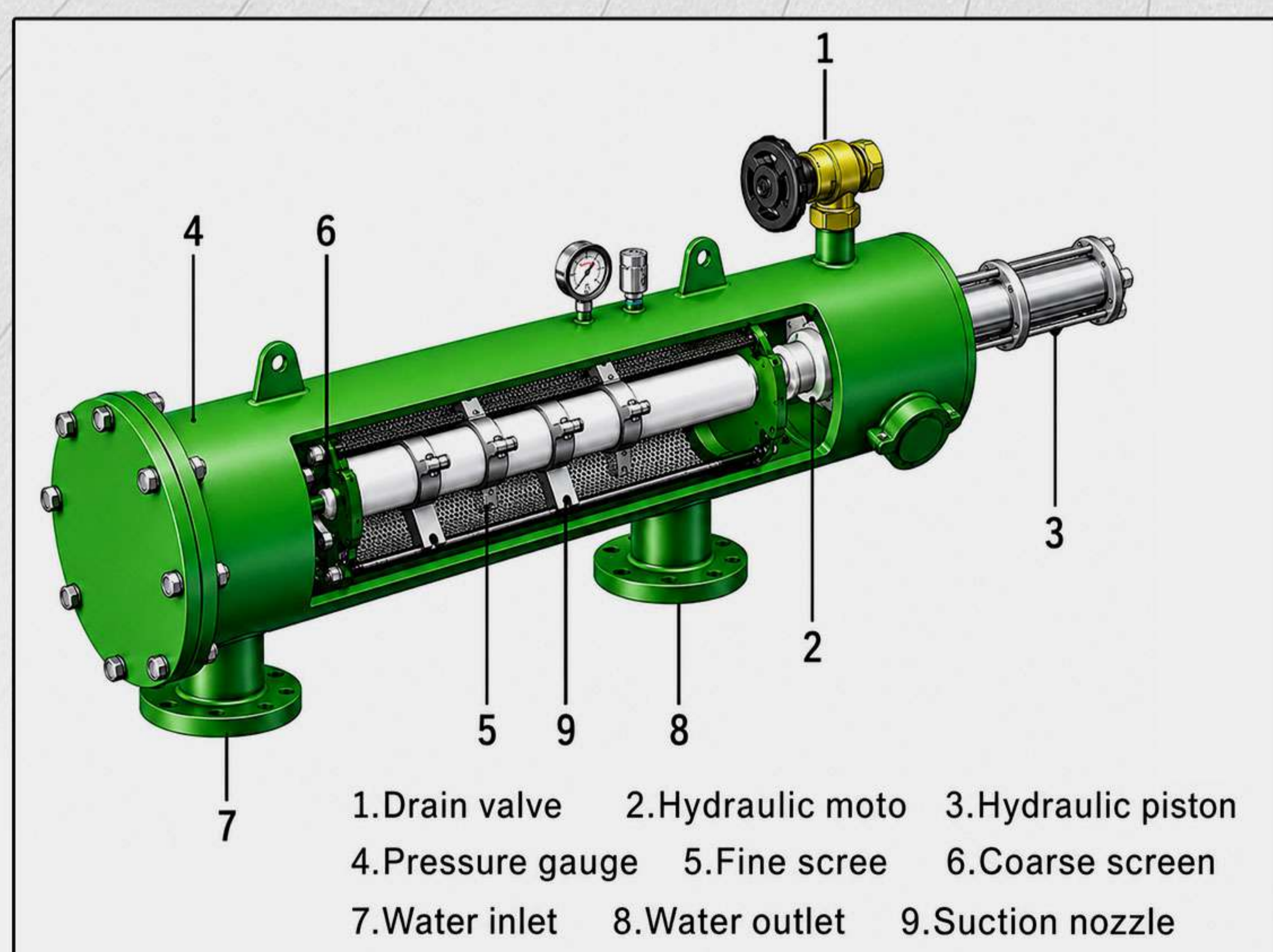
HYDRAULIC SELF-CLEANING FILTER

TYPE KSAF-800 Series

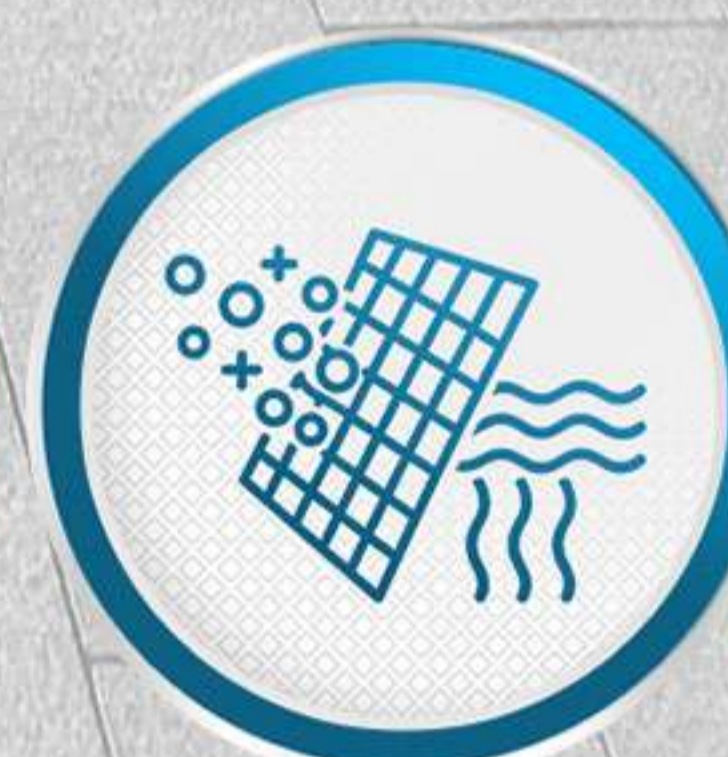
The KUSATSU Hydraulic Self-Cleaning Filter KSAF-800 Series is engineered for high-efficiency industrial water filtration. Water flows through the filter screen where suspended solids and contaminants are captured, while clean water continues through the outlet. When the differential pressure reaches the preset value, the system automatically initiates a self-cleaning cycle. A hydraulically driven suction scanner generates negative pressure to remove impurities from the screen surface, moving across the screen to ensure complete cleaning without blind spots. Collected contaminants are discharged through the drain outlet while filtration remains uninterrupted. Designed for continuous operation with minimal water consumption, the KSAF-800 Series delivers reliable performance and reduced maintenance requirements.



PRODUCT STRUCTURE CHART



Easy Maintenance



Efficient Filtration



Reliable Performance



Durable Construction

TECHNICAL PARAMETER

Single Filter Flow	50-1500 m ³ /h
Filtration Range	4000µm-25µm
Max Working Pressure	16 bar
Min Working Pressure	1 bar
Working Temperature	≤65°C
Pressure Loss	0.1 bar
Control Way	Pressure difference/ Time/Manually
Cleaning Time	10-200seconds (optional)
Power	220V/50Hz
Dc	9V
Self-Cleaning Filter Completely Depends on The Water Pressure	Inside The System and Without External Power
Screen Material	SS361L sintered mesh

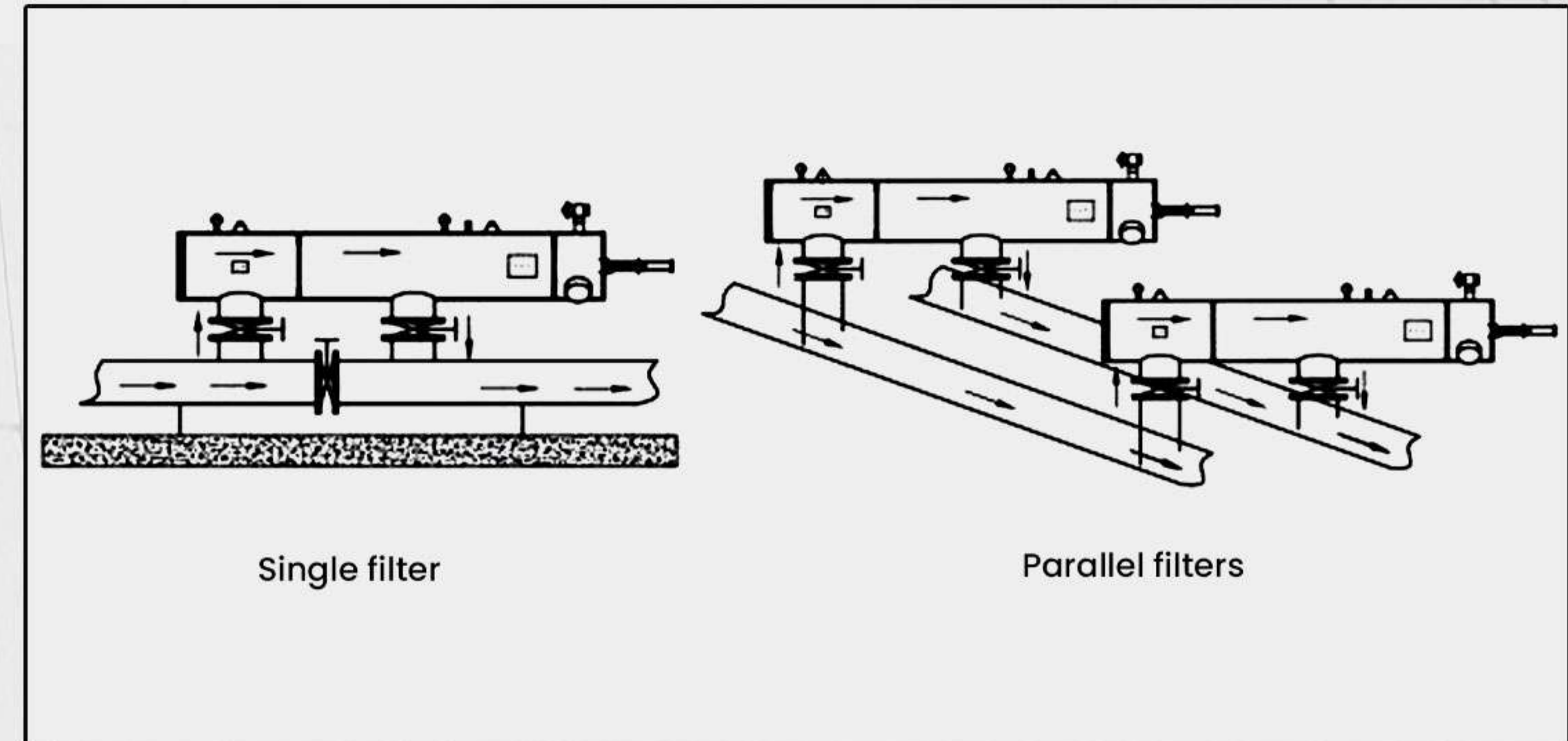
FILTER MATERIAL

SHELL	Carbon steel/304 Stainless steel/316L
MESH	304 Stainless steel/316L
SUCKING SCANNER	304 Stainless steel/316L
DRAIN VALVE	Casting iron, Copper, Stainless steel, Nylon
CONTROL BOX	PVC/Aluminium
SEALING RING	EPDM Rubber

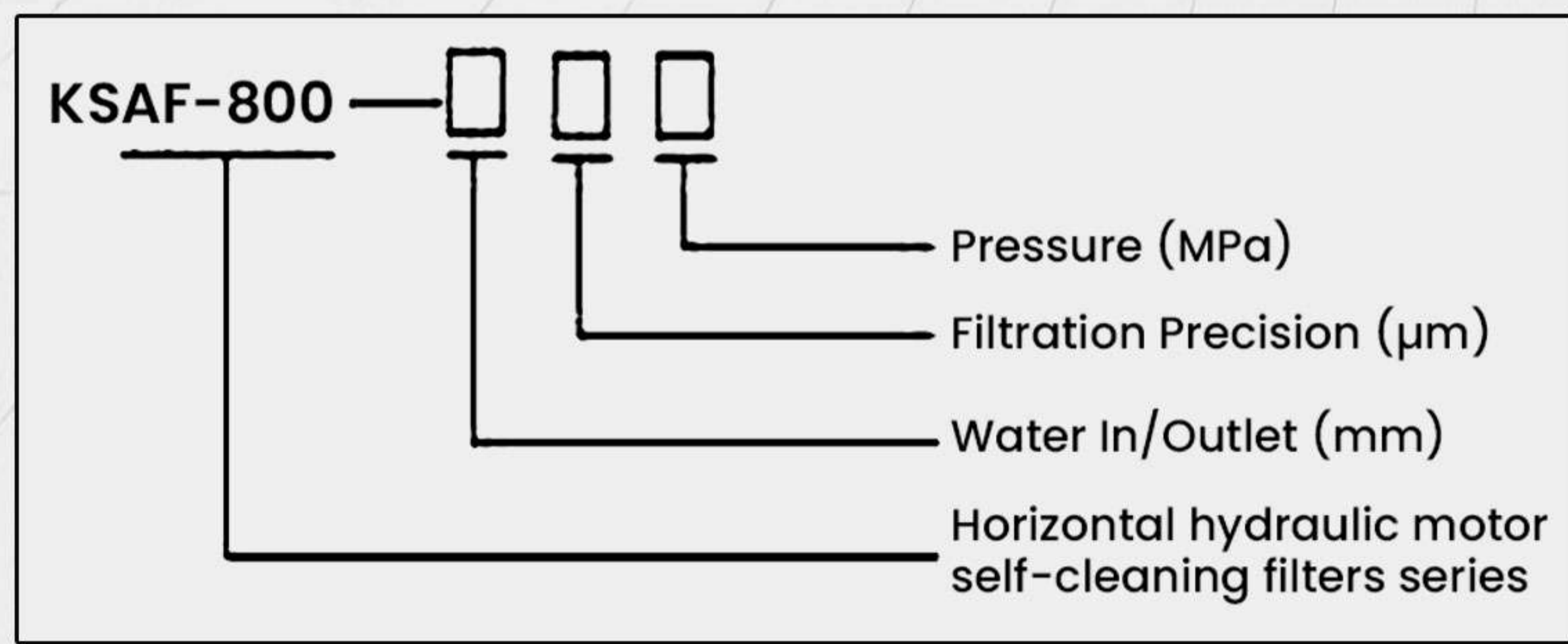
HYDRAULIC SELF-CLEANING FILTER

TYPE KSAF-800 Series

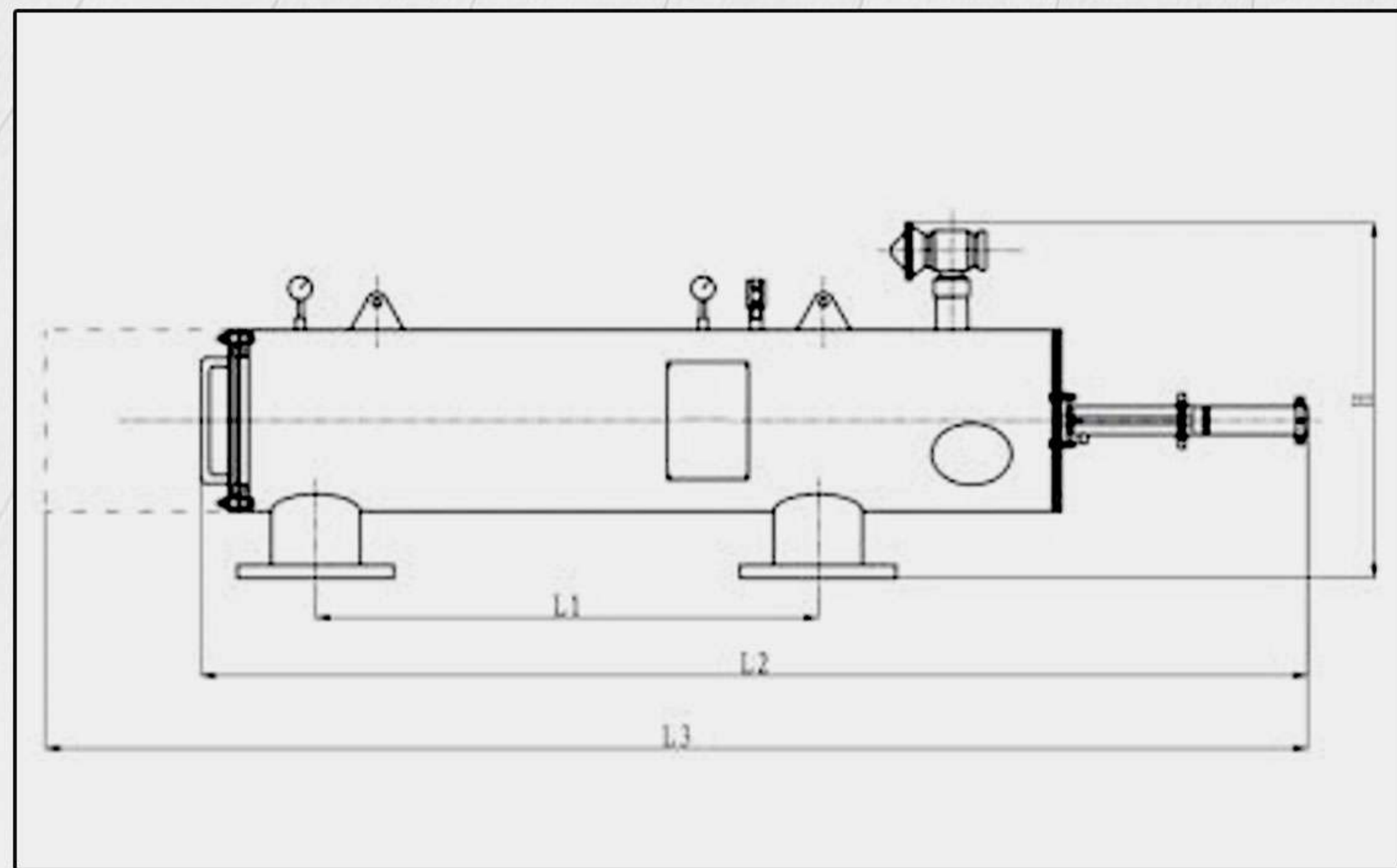
INSTALLATION FIGURE



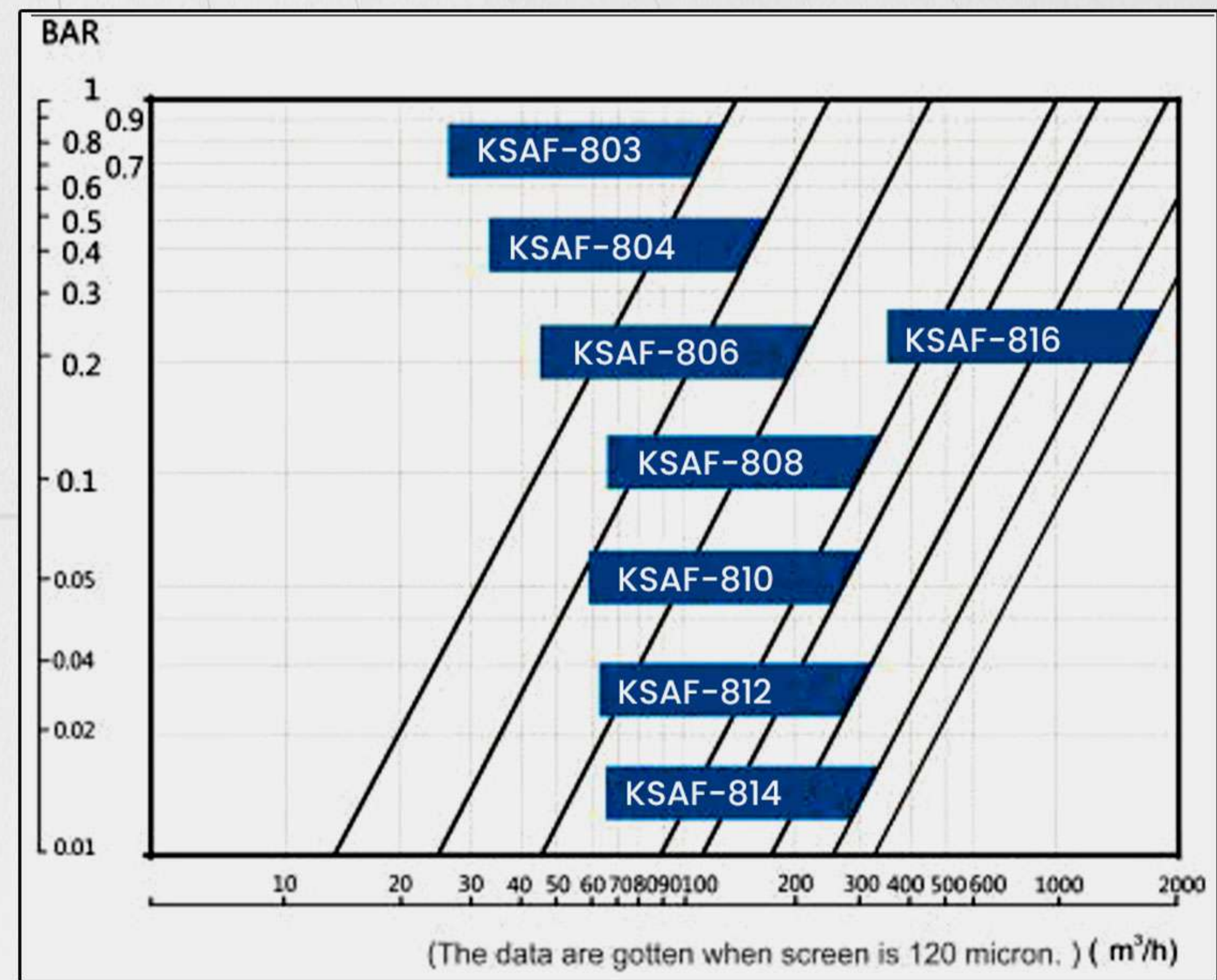
MODEL CLARIFICATION



SIZE CHART



THE TABLE PRESSURE LOSS



TECHNICAL DATA TABLE

MODEL	INLET OUTLET (mm)	SCREEN AREA (cm ²)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	FLOW (m ³ /h)	WEIGHT (kg)
KSAF-803LOPR	80	3220	273	450	1141	1575	2075	555	50	140
KSAF-804LOPR	100	5780	273	900	1505	1935	2735	555	100	170
KSAF-806LOPR	150	5780	325	900	1505	1935	2735	625	150	183
KSAF-806XLP	150	8410	273	900	1841	2275	3471	555	160	205
KSAF-808PR	200	5780	325	900	1685	2115	2915	625	250	195
KSAF-808LOPR	200	8410	325	900	2085	2515	3715	625	300	235
KSAF-810PR	250	8090	426	900	1885	2315	3515	726	350	250
KSAF-810LOPR	250	8410	377	900	2085	2515	3715	677	400	270
KSAF-810XLP	250	11710	426	1100	2725	3155	4755	736	450	430
KSAF-812PR	300	11710	426	1100	2725	3155	4755	736	600	435
KSAF-814PR	350	12990	480	1270	2725	3155	4755	810	1000	455
KSAF-816PR	400	12990	480	1270	2725	3155	4755	810	1200	480
KSAF-816XLP	400	17020	630	1270	2725	3155	4755	1010	1500	680

MANUAL BRUSH SCREEN FILTER



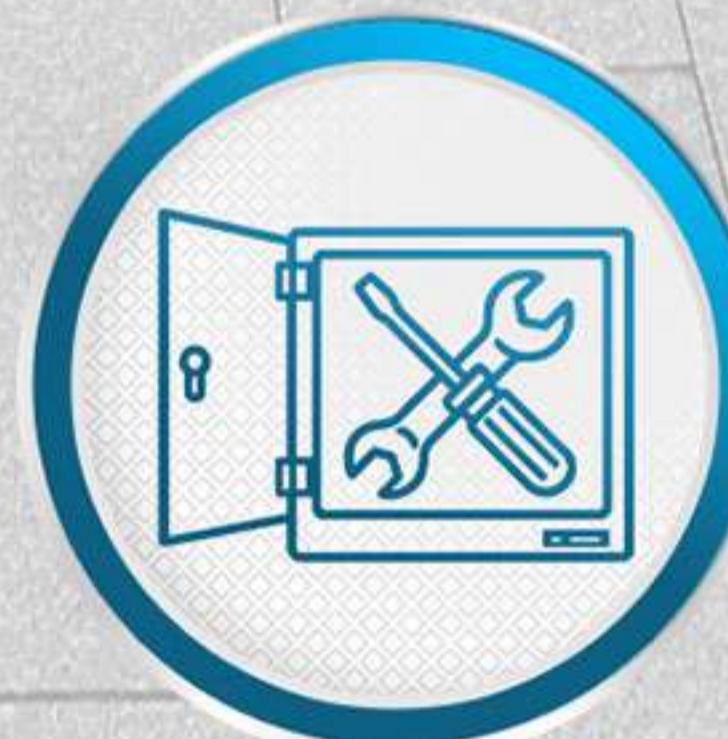
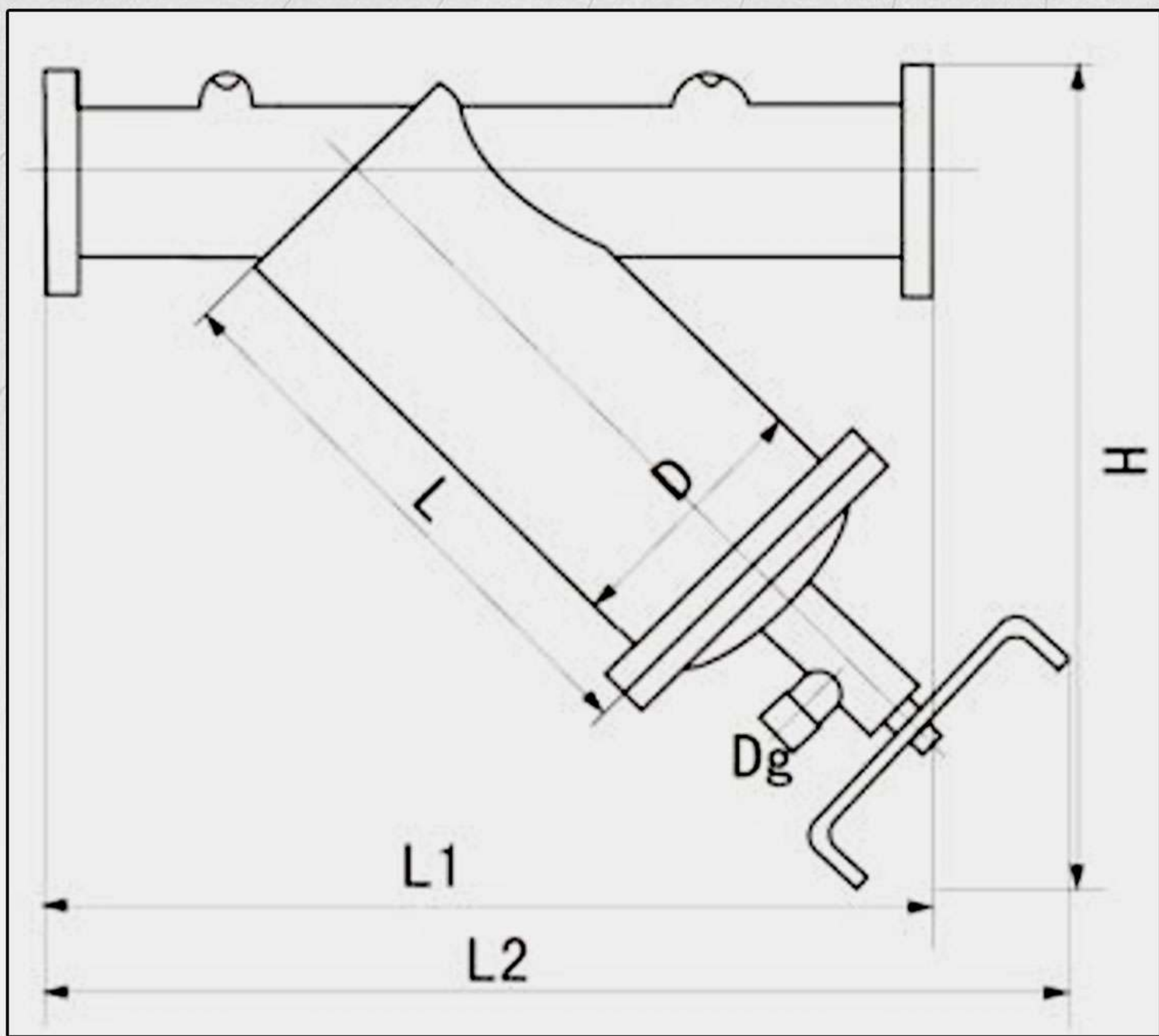
TYPE KSS Series

The KUSATSU Manual Brush Screen Filter KSS Series is designed to provide efficient filtration for industrial and commercial water applications. Water flows through a stainless steel filter screen that captures suspended particles and impurities, allowing clean water to pass through the outlet. The robust construction ensures reliable filtration performance while protecting downstream equipment from contamination.

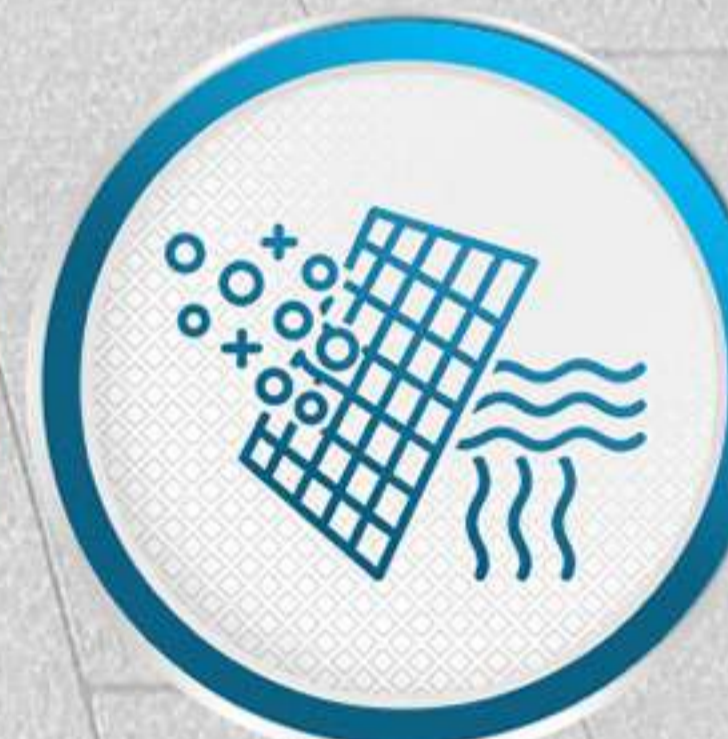
For maintenance, the integrated manual brush cleaning mechanism allows accumulated debris to be removed quickly and easily without disassembling the filter. By simply rotating the external handle, the internal brush cleans the screen surface while the drain valve releases collected impurities. This user-friendly design minimizes maintenance time, maintains continuous operation, and provides a cost-effective solution for water filtration systems.



SIZE CHART



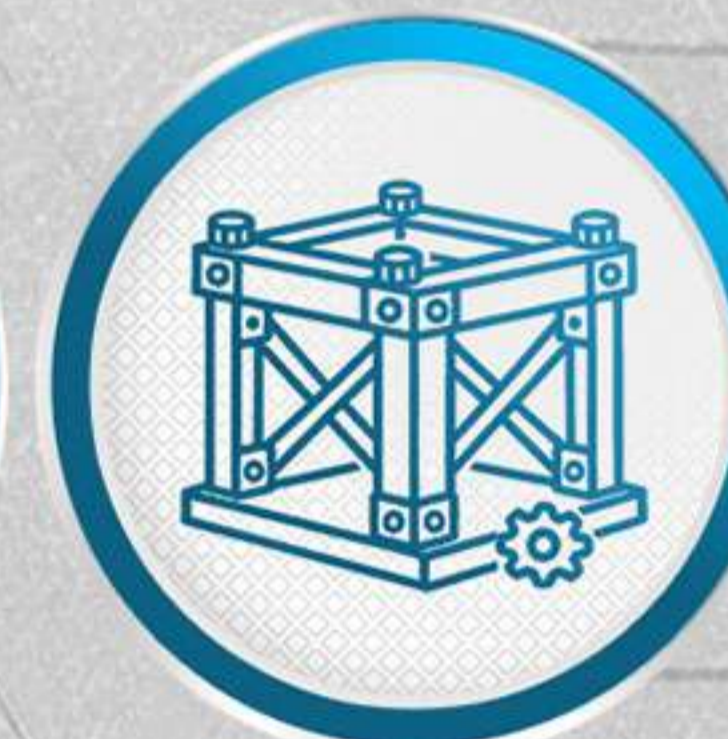
Easy Maintenance



Efficient Filtration



Reliable Performance



Durable Construction

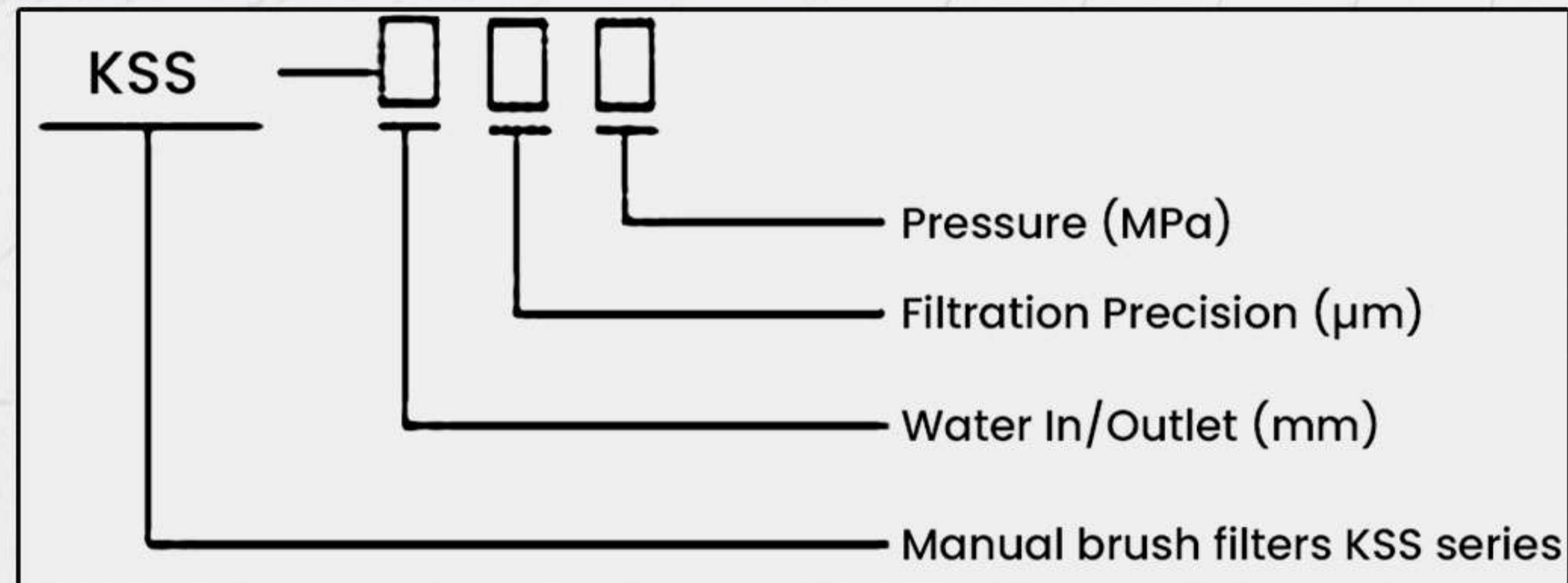
FILTER MATERIAL	
HOUSING	Carbon steel/304 Stainless steel/316L
MESH	304 Stainless steel/316L
BRUSH	304 Stainless steel/316L
DRAIN VALVE	Casting iron, Copper, Stainless steel, Nylon
SEALING RING	EPDM Rubber

TECHNICAL PARAMETER	
Single Filter Flow	50-1500 m ³ /h
Filtration Range	4000μm-25μm
Max Working Pressure	16 bar
Min Working Pressure	1 bar
Working Temperature	≤65°C
Pressure Loss	0.1 bar
Control Way	Pressure difference/ Time/Manually
Cleaning Time	10-200seconds (optional)
Power	220V/50Hz
Dc	9V
Self-Cleaning Filter Completely Depends on The Water Pressure	Inside The System and Without External Power
Screen Material	SS361L sintered mesh

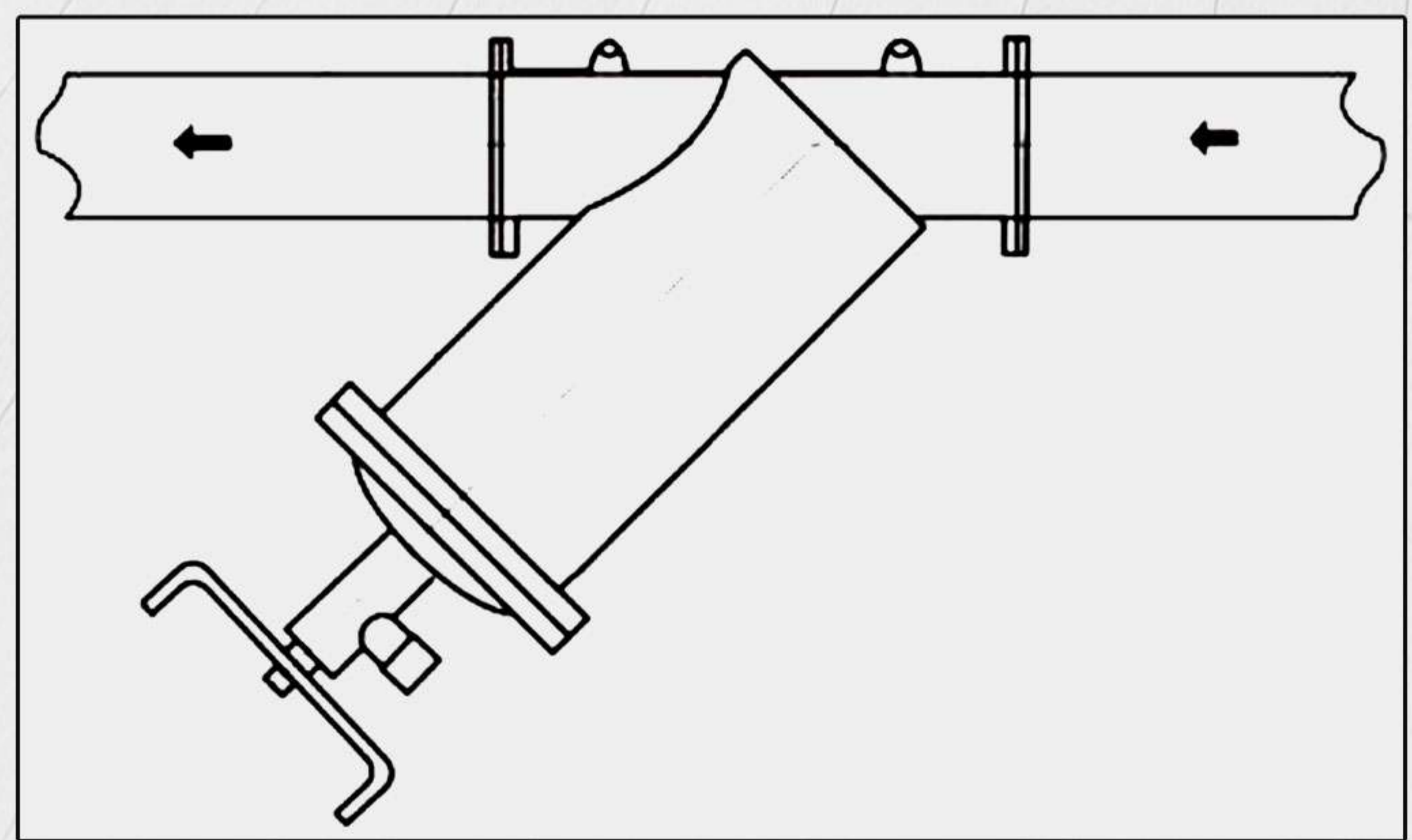
MANUAL BRUSH SCREEN FILTER

TYPE KSS Series

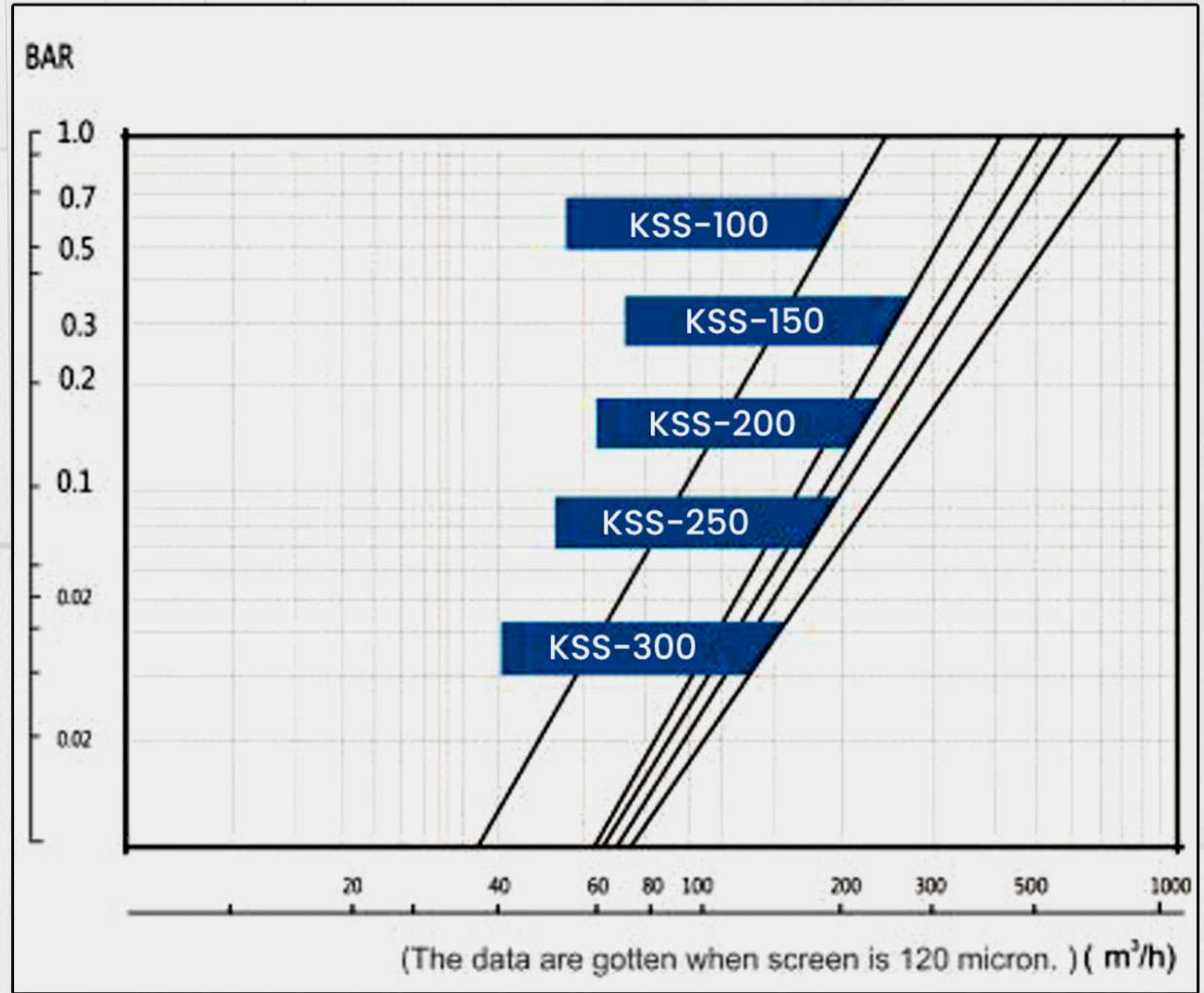
MODEL CLARIFICATION



INSTALLATION FIGURE



THE TABLE PRESSURE LOSS



TECHNICAL DATA TABLE

MODEL	INTERFACE DIAMETER (mm)	L1 (mm)	L2 (mm)	L (mm)	D (mm)	H (mm)	DRAIN OUTLET (mm)	MAX FLOW (m ³ /h)
KSS-50	50	500	710	330	159	500	25	19
KSS-80	80	550	710	330	159	550	25	50
KSS-100	100	670	810	430	159	670	32	80
KSS-150	150	800	950	480	275	800	32	150
KSS-200	200	900	1050	560	325	900	40	320
KSS-250	250	1200	1350	744	377	1200	50	490
KSS-300	300	1250	1630	780	426	1250	65	710
KSS-350	350	1300	1980	820	478	1300	65	970

SAND MEDIA FILTER

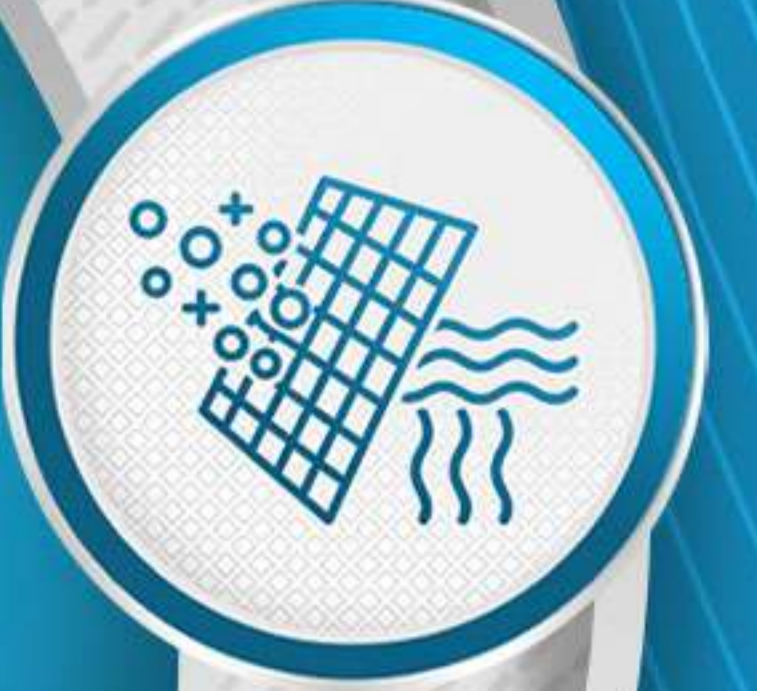
TYPE KSS Series

The KUSATSU Sand Media Filter KMF Series is designed to provide efficient water treatment by removing suspended solids, reducing turbidity, and improving overall water quality. Water flows evenly through the filtration media bed, where particles and contaminants are captured before the filtered water is collected and discharged. Depending on the selected filtration media, such as sand, activated carbon, or anthracite, the system can also help reduce organic compounds, odors, and other unwanted substances.

The KMF Series is available in various tank sizes and can be configured as a standalone unit or integrated into existing water treatment systems. For enhanced operational efficiency, the automatic control system initiates the cleaning cycle based on differential pressure, preset time intervals, or manual activation. The backwash process is fully adjustable and can be managed through the standard controller, while optional PLC integration enables remote monitoring and control for advanced applications.

KUSATSU
Water Treatment Equipment

Efficient
Filtration



Reliable
Performance



Durable
Construction



Easy
Maintenance



PRODUCT FEATURES

- High flow capacity with low pressure loss.
- Modular and compact design, reducing installation space by more than 40% and minimizing piping requirements by at least 50%.
- Available with manual, semi-automatic, or fully automatic backwash operation.
- Backwash water can be sourced from filtered water or an external water supply, with flexible switching options.
- Multiple 20"–56" vessels can be combined to accommodate a wide range of flow capacities.
- Carbon steel vessels and piping are treated with phosphate surface protection and high-temperature (240°C) electrostatic coating for enhanced corrosion resistance.

PRODUCT ADVANTAGES

- Equipped with high-quality components from globally recognized brands, including BERMAD, BACCARA, SIEMENS, and MITSUBISHI.
- Single-chamber filtration unit design provides more effective backwashing performance and minimizes the risk of media loss during operation.
- Utilizes a stainless steel water collector for enhanced durability, corrosion resistance, and extended service life.
- Bottom outlet configuration allows easier access for inspection and maintenance, reducing service time and operational downtime.

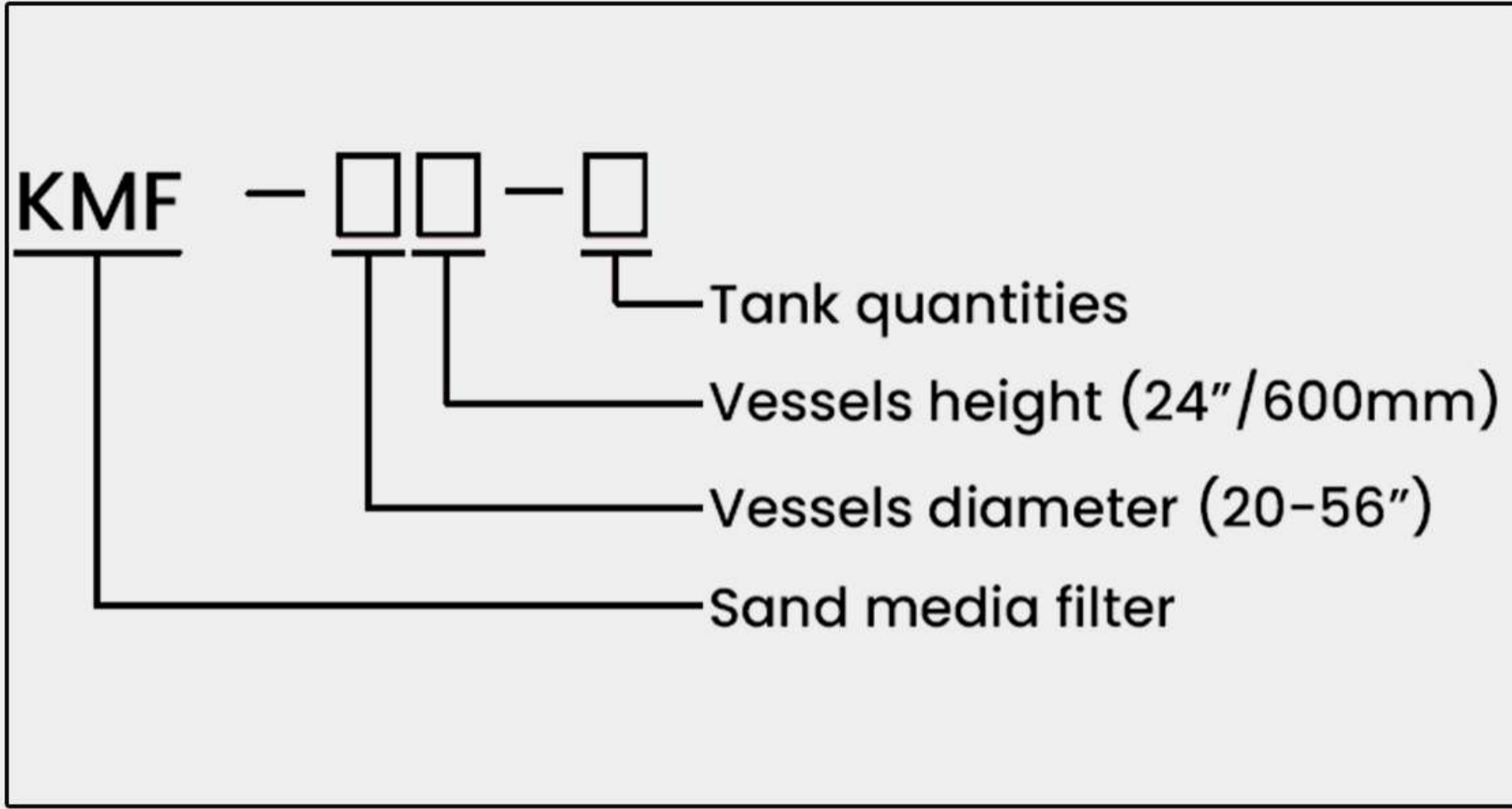
PRODUCT APPLICATION

- Industrial process water filtration, including nozzle protection and equipment safeguarding applications.
- Industrial circulating water systems for steel plants, metallurgy, paper mills, heat exchangers, power generation, petrochemical facilities, food processing, and HVAC systems.
- Raw water treatment applications utilizing surface water, river water, lake water, and seawater sources.
- Irrigation systems for agriculture, landscaping, municipal facilities, parks, and golf courses.
- Water treatment applications for aquaculture, swimming pools, water parks, and other recreational facilities.

SAND MEDIA FILTER

TYPE **KMF Series**

MODEL CLARIFICATION



STANDARD SCOPE OF SUPPLY

- Single-chamber filter system with integrated backwash function.
- Pre-assembled skid-mounted filtration system for simplified installation.
- Inlet, outlet, and backwash valve assembly.
- Controller, solenoid valves, and manifolds.
- Water distribution and collection system.
- Carbon steel housing with internal and external epoxy coating, treated at 200°C for enhanced corrosion resistance and durability.

OPTIONAL FEATURES

- Higher pressure rating.
- PLC-based control system.
- External backwash system.
- Air-assisted backwash system.
- SS304 or SS316 stainless steel housing.
- Customized piping layout.
- Double-chamber configuration.

TECHNICAL DATA TABLE

MODEL	TANK QUANTITIES	FLOW MIN (M ³ /H)	FLOW MAX (M ³ /H)	FILTRATION AREA (M ²)	BACKWASH FLOW PER TANK (M ³ /H)	PRESSURE MAX (BAR)	WATER IN/OUT	BACKWASH OUT
KMF-2024-1A	1	4	6	0.20	6	8	2"	2"
KMF-2424-1A	1	7	11	0.28	11	8	2"	2"
KMF-2024-2A	2	8	12	0.40	6	8	2"	2"
KMF-2824-1A	1	9.5	15	0.38	15	8	2"	2"
KMF-2024-3A	3	12	18	0.60	6	8	3"	2"
KMF-2424-2A	2	14	22	0.56	11	8	3"	2"
KMF-3624-1A	1	16	24	0.64	24	8	3"	3"
KMF-2824-2A	2	19	30	0.76	15	8	4"	2"
KMF-2424-3A	3	22	32	0.84	11	8	3"	3"
KMF-4824-1A	1	29	43	1.13	43	8	3"	3"
KMF-3624-2A	2	32	48	1.28	24	8	4"	3"
KMF-2824-3A	3	28.5	45	1.15	15	8	4"	3"
KMF-5624-1A	1	39	58	1.54	58	8	4"	4"
KMF-3624-3A	3	48	72	1.54	24	8	6"	3"
KMF-4824-2A	2	57	86	2.26	43	8	6"	4"
KMF-5624-2A	2	78	108	3.08	54	8	6"	4"
KMF-4824-3A	3	86	129	3.39	43	8	6"	4"
KMF-5624-3A	3	117	174	4.62	58	8	8"	4"
KMF-4824-4A	4	115	172	4.52	43	8	8"	4"
KMF-4824-5A	5	143	215	5.65	43	8	8"	4"
KMF-4824-6A	6	172	258	6.78	43	8	10"	4"
KMF-5624-4A	4	156	232	6.16	58	8	8"	4"
KMF-5624-5A	5	195	290	7.70	58	8	10"	4"
KMF-5624-6A	6	234	348	9.24	58	8	10"	4"

INDOTARA[®]

PT. INDOTARA PERSADA

Our Marketing Office and After Sales Service Center

Head Office

50/F, Menara BCA Grand Indonesia
Jl. M.H. Thamrin No.1
Jakarta Pusat 10310
021 - 5011 2229
dwt@indotara.id



Semarang Office

Wisma HSBC Lt. 6 suite 609
Jl. Gajah Mada No.135,
Semarang, Jawa Tengah - 50134
021 - 5011 2229
smg.dwt@indotara.id



Marketing Office

Maggiore Business Loft No. 01-02
Gading Serpong,
Tangerang - Banten 15332
021 - 5011 2229
dwt@indotara.id



Medan Office

Sutomo Tower Lantai 5H
Jl. Sutomo Ujung No.28,
Kota Medan, Sumatera Utara 20235
021 - 5011 2229
mdn.dwt@indotara.id



Graha Indotara

Millenium Industrial Estate
Jl. Millenium 22 Blok R3 No. 1,
Cikupa, Tangerang - Banten 15720
021 - 5011 2229
dwt@indotara.id



Makassar Office

Fajar Graha Pena Lt. 5
Jl. Urip Sumoharjo No. 20,
Makassar - Sulawesi Selatan 90234
021 - 5011 2229
mks.dwt@indotara.id



Bandung Office

Wisma HSBC Lt. 6 Suite B
Jalan Asia Afrika No.116,
Kota Bandung, Jawa Barat 40112
021 - 5011 2229
bdg.dwt@indotara.id



Balikpapan Office

Panin Tower Lt. 8 Grand Sudirman
Jl. Jendral Sudirman No.7 Klandasan Ilir,
Balikpapan Kota - Kalimantan Timur 76114
021 - 5011 2229
bpp.dwt@indotara.id



Surabaya Office

Japfa Indoland Center, Tower I Lt. 10/1008
Jl. Jendral Basuki Rahmat 129-137
Surabaya 60271
021 - 5011 2229
sby.dwt@indotara.id



Bali Office

Benoa Square Lt. 2
Jl. Bypass Ngurah Rai No. 21 A Kedonganan,
Kuta Badung - Bali Indonesia 80361
021 - 5011 2229
bali.dwt@indotara.id



Yogyakarta Office

Hartono Mall Yogyakarta Lt. 3
Kaliwaru, Condongcatur,
Sleman, Yogyakarta 55281
021 - 5011 2229
yog.dwt@indotara.id



Singapore Office

Marina Bay Financial Centre Tower 3
17F, 12 Marina Boulevard
Singapore - 018982
021 - 5011 2229
sing.dwt@indotara.id

