

SANY

STE Filter Product Selection Manual



Deliver Value
Drive the Future

SANY mission:

Quality Changes the World



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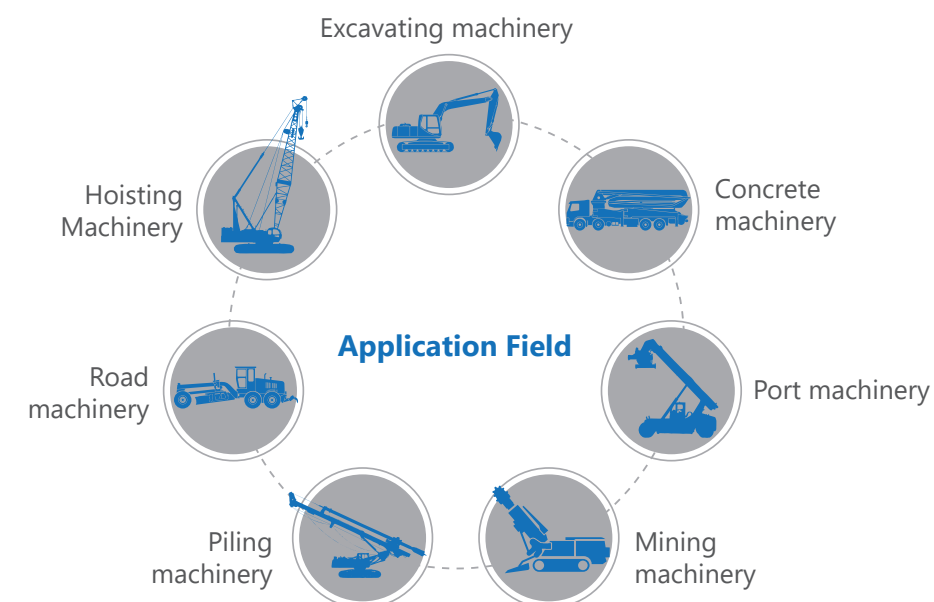
01/ Company Introduction

Sany Group Changshu Industrial Park was established in 2008, located in the High-tech Development Zone of Changshu, Jiangsu Province, China. It is a wholly-owned subsidiary of Sany Group specializing in engineering machinery supporting components. The product range covers four-wheel drive, hydraulic valves, filters, gearboxes, slewing bearings, axle gearboxes, and professional solutions.

STE Filter was established in 2014 and is located in the Sany Industrial Park in Changshu. It has now developed into a large-scale comprehensive enterprise in China integrating filter research and development, production, and sales. With a complete research and development system, it has more than 30 research and development personnel, all of whom are industry senior research and development engineers with rich experience in filter research and development.

STE Filter covers an area of 40,000 square meters, with 8 production lines, producing air filters, fuel filters, oil filters, hydraulic filters, and industrial, wind power, and other filter products, with an annual production capacity of 6 million filters.

Its products are widely used in the field of construction machinery, including excavators, cranes, piling machinery, concrete machinery, road machinery, mining machinery, port machinery, etc. The clean and dust-free factory buildings constructed are at the advanced level in the industry. The core filtering materials are from imported brand, using unique technology, with high efficiency, high dirt holding capacity, and long service life. There are currently 24 sets of testing equipment in the laboratory, and a first-class research and development testing center for construction machinery filters has been established, covering all filter performance tests.



02/ Product Introduction

The company specializes in the production of fuel filters, oil filters, air filters, hydraulic filters, wind turbine filter elements, and other filtration products, providing customers with professional filtration solutions.



Product Functions

to the
combustion
chamber of
the engine



Engine
module



① Lubrication system

Responsible for providing clean lubricate for the moving parts of the engine Lubricant

② Fuel system

Responsible for providing clean fuel for the engine

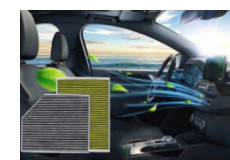
Intake
module



① Intake system

Responsible for providing clean air

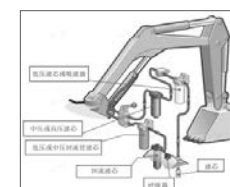
HVAC
module



① Air conditioning system

Responsible for providing clean air to the cab

Hydraulic
transmission
module



① Hydraulic filtration system

Responsible for providing clean hydraulic oil for hydraulic systems

Product Categories

Oil filter



Fuel filter



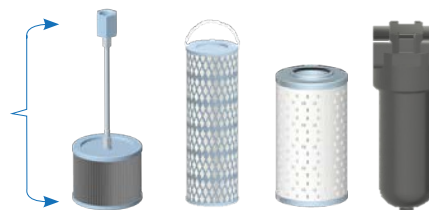
Air filter



Air con-
ditioning
filter



Hydraulic
filter



03 / Research and Development Capability



Having more than 30 R&D technology team members and a first-class R&D center



Having a filter R&D testing center, covering all performance tests of filters



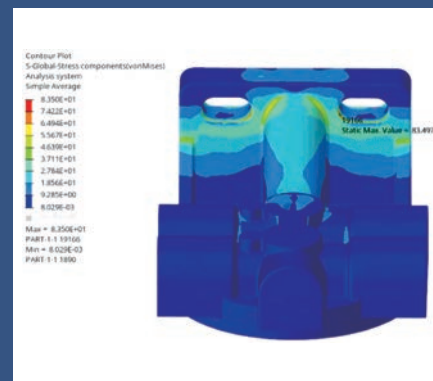
Has obtained multiple national invention patents



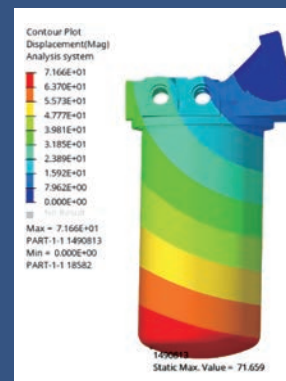
Having simulation technology, test benches, and engineering machinery product test sites



Durability test



Stress analysis



Modal analysis



Filter multi-pass efficiency test bench



Oil-water separation performance test bench



Air filter test bench



Hydraulic filter comprehensive performance test bench



Bypass valve opening pressure test bench



Filter element structural integrity test bench



High pressure pulse fatigue test bench



Low pressure pulse fatigue test bench



High and low temperature environmental test chamber



High pressure burst test equipment

04/ Quality Assurance

The company has passed the ISO9001 system certification, and the test center is equipped with various advanced detecting equipment, including: coordinate measuring machine, metalloscope, spectrum analyzer, and other specialized detecting equipment, providing powerful protection for quality control. It has won high visibility and reputation in the industry with its high quality of product quality and service.



Coordinate measuring machine



Metalloscope



Spectroscopy



Surface roughness profile measuring instrument



Filter paper air permeability tester



Filter paper stiffness tester

05 / Manufacturing Capability

High efficiency

Adopting advanced production processes and equipment to achieve cost reduction and efficiency improvement



Oil filter assembly line

Adopting flexible manufacturing technology to improve market responsiveness



Automation

Adopting automatic production lines and technologies such as robots to improve production efficiency and product consistency.



06 / Product spectrum

Oil filter - spin-on filter

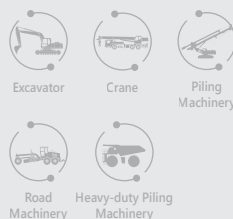


Mainly used for large, medium, and small excavators and other construction machinery

Characteristics:

- Using imported filter materials, with low flow resistance, high efficiency, and long service life;
- High product reliability, suitable for various harsh working conditions;
- Universal design, quickly meet customer order requirements.

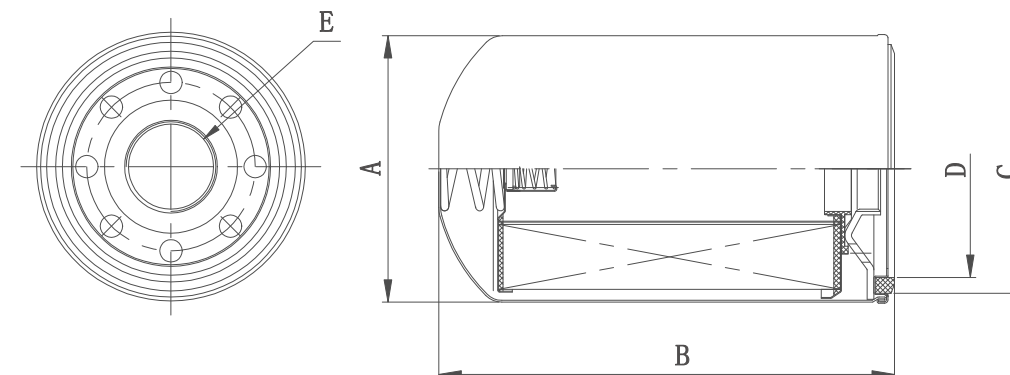
Application:



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency	
1	B222100000494	/	170	40	98.7%@25um	Isuzu engine GB3-4JJ1XI/4HK1/GH-6HK1XKSC/6WG1/AH-6UZ1X
2	60327523	/	70	35	91%@30um	SKT40-105 SAC2200-3000
3	160605020034A	60197083	30	40	95%@40um	Excavator 6-9T
4	60263488	/	85	55	99%@38um	Deutz engine D05/D07/D13
5	160605020047A	/	70	30	95%@40um	/
6	160605020045A	/	100	40	98.7%@40um	/
7	160605020046A	/	50	30	99.5%@30um	/
8	160605020082B	60273112	30	30	95%@30um	Excavator 3.5T
9	160605020083B	60273111	20	30	95%@30um	Excavator 1.6-2.6T
10	GLQ008465984	60159531	83	40	98.7%@30um	/
11	160605020040B	60220064	20	30	98.7%@40um	Excavator 3.5-8T
12	160605020076B	60212875	30	40	50%@25um	Excavator 1.6-3.5T
13	GLQ008464081	60176476P	80	40	98.7%@35um	Mitsubishi engine DO6FRC
14	14391266	14391266	170	40	98.7%@25um	Excavator 135-870T
15	B222100000551	B222100000551	80	30	98.7%@35um	Mitsubishi engine 4M50
16	A222100000569	A222100000569	54	40	98.7%@35um	Isuzu engine 4JG1PAC

The performance of the oil filter directly affects the performance of the engine, playing a key role in the normal operation of the engine. STE filter can provide customers with full-flow and full-flow/split-flow composite air filters, which can be matched with the engine base according to customer requirements.



Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					Product structure	
			A	B	C	D	E	Whether comes with bypass valve	Whether comes with chamfer
1	B222100000494	/	φ119	203	φ111	φ98	1 1/2-12UNF-2B	Yes	No
2	60327523	/	φ109	195	φ101	φ92	M30*2-6H	Yes	Yes
3	160605020034A	60197083	φ94	167	φ72	φ62	3/4-16UNF-2B	Yes	Yes
4	60263488	60263488	φ109	261	φ102	φ92	1 1/8-16UNF-2B	Yes	Yes
5	160605020047A	160605020047A	φ109	186	φ102	φ92	1 1/8-16UNF-2B	No	Yes
6	160605020045A	160605020045A	φ109	261	φ102	φ92	1 1/8-16UNF-2B	No	Yes
7	160605020046A	160605020046A	φ109	186	φ102	φ92	1 3/8-16UNF-2B	No	Yes
8	160605020082B	60273112	φ80	102	φ64.5	φ58.5	M20*1.5-6H	Yes	Yes
9	160605020083B	60273111	φ68	66	φ64.5	φ57	M20*1.5-6H	Yes	Yes
10	GLQ008465984	60159531	φ94	176	φ72	φ62	1 1/8-16UNF-2B	No	No
11	160605020040B	60220064	φ93	92	φ72	φ62	3/4-16UNF-2B	Yes	Yes
12	160605020076B	60212875	φ94	103	φ73.5	φ67.5	3/4-16UNF-2B	Yes	Yes
13	GLQ008464081	60176476P	φ109	202	φ102	φ92	1 1/2-16UNF-2B	No	No
14	14391266	14391266	φ119	203	φ111	φ98	1 1/2-12UNF-2B	Yes	No
15	B222100000551	B222100000551	φ125	223	φ106.5	φ92.5	M36*1.5*6H	No	Yes
16	A222100000569	A222100000569	φ91	101	φ86	φ75.5	M20*1.5-6H	Yes	Yes

Oil-water separator - spin-on filter



Mainly used for large, medium, and small excavators and other construction machinery

Characteristics:

- Select composite fiber materials with high air permeability, stiffness, and oil resistance, with low flow resistance, high filtration efficiency, and longer service life;
- Provide high oil-water separation efficiency throughout the service life;
- High product reliability, suitable for various harsh working conditions;
- Universal design, quickly meet customer order requirements.

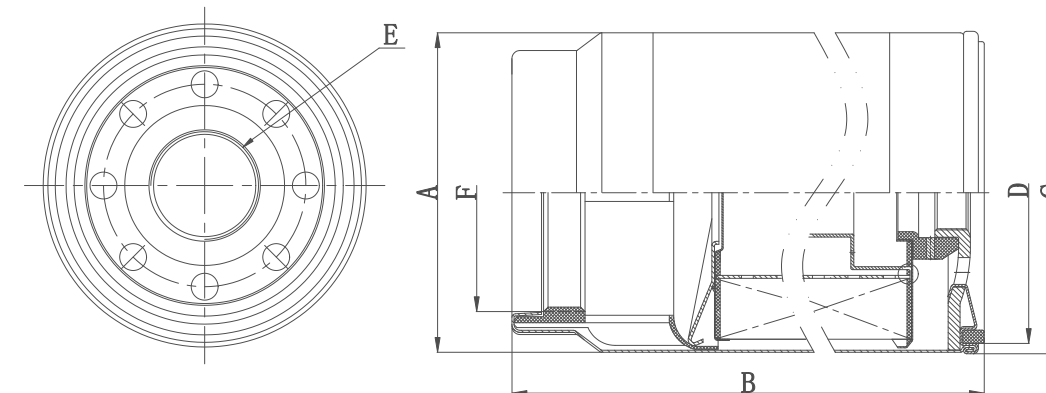
Application:



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance				Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency	Water separation efficiency	
1	160604020017	/	7.6	10	98.7%@10um	95%	SYM1250T1-1312T/SKT95T
2	60328868	/	7.6	10	90%@10um	95%	SCC600-1800A SAC6000-8000T
3	160603020024A	/	7.6	10	98.7%@10um	95%	SAC4000-8000 SCC13000-17000T
4	B222100000365	/	7.6	10	98.7%@10um	95%	SSP80-165
5	60242352	/	2	5	95%@12um	95%	SPR260/STR100DG SYL956-958 SAP45-50C SSR150-180
6	GLQ008495953	60208877	7.6	5	95%@12um	95%	Cummins engine ISLE37530
7	160603020047A	/	3.8	5	99.5%@40um	94%	/
8	B222100000766	/	3.5	5	98.7%@10um	98%	SMP95C/SSP100C8/ SSR180/STG190C/ SMG200C/SPR300/ SAP240C6S/ Excavator 35.5-85T
9	GLQ007201604	160102100004B174	7.6	10	95%@10um	93%	SW955-966
10	13539818	/	3.5	5	98.7%@5um	98%	Mitsubishi Fuso Engine 4M50

The oil-water separator filters impurities and separates water from oil, effectively protecting the fuel filtration system. STE can provide customers with various models of oil-water separators, which can be matched with the engine base according to customer requirements.



Main dimensions

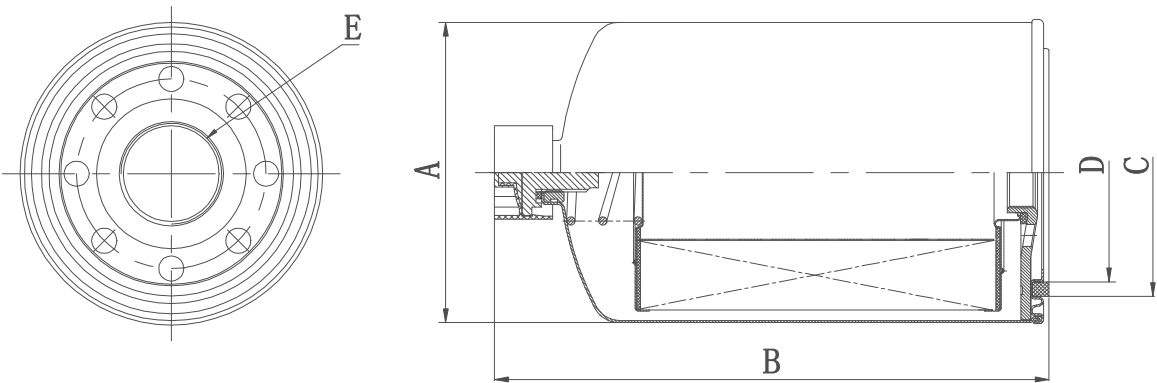
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)						Product structure	
			A	B	C	D	E	F	Whether comes with sealing rings	Whether with chamfer
1	160604020017	/	φ108	230	φ102	φ92	1-14UNF-2B	S80*3	Comes with a sealing ring with inner diameter of φ74.5*wire diameter of φ3.5	No
2	60328868	/	φ108	230	φ102	φ92	1-14UNF-2B	S80*3	Comes with a sealing ring with inner diameter of φ74.5*wire diameter of φ3.5	No
3	160603020024A	/	φ108	230	φ102	φ92	1-14UNF-2B	S80*3	Comes with a sealing ring with inner diameter of φ74.5*wire diameter of φ3.5	No
4	B222100000365	/	φ108	230	φ102	φ92	1-14UNF-2B	S80*3	Comes with a sealing ring with inner diameter of φ74.5*wire diameter of φ3.5	No
5	60242352	/	φ120	205	φ90	φ80	1-14UNF-2B	1 1/4-10UNS-2B	Comes with a sealing ring with inner diameter of φ85*wire diameter of φ4	No
6	GLQ008495953	60208877	φ120	255	φ90	φ80	1-14UNF-2B	1 1/4-10UNS-2B	Comes with a sealing ring with inner diameter of φ85*wire diameter of φ4	No
7	160603020047A	/	φ94	143	φ90	φ80	1-14UNS-2B	M80*2.5-6H	Comes with a sealing ring with inner diameter of φ82.5*wire diameter of φ3.5	No
8	B222100000766	/	φ111	220	φ90	φ79.5	1-14UNF-2B	3 3/4-10UNG-2A	Not available	No
9	GLQ007201604	160102100004B174	φ109	242	φ102	φ92	1-14UNF-2B	M36*1.5	Comes with an O-ring with inner diameter of φ35*wire diameter of φ4	No
10	13539818	/	φ109	220	φ90	φ79.5	1-14UNF-2B	3 3/4-10UNG-2A	Comes with an O-ring with inner diameter of φ92.5 * wire diameter of φ4	No

Oil-water separator - with drain valve spin-on filter



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance				Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency	Water separation efficiency	
1	GLQ007237341	60208879	6.3	5	98%@7um	95%	Cummins engine ISLE37530
2	160604020109A	60250800	10	5	98.7%@17um	95%	Excavator 75-87T



Main dimensions

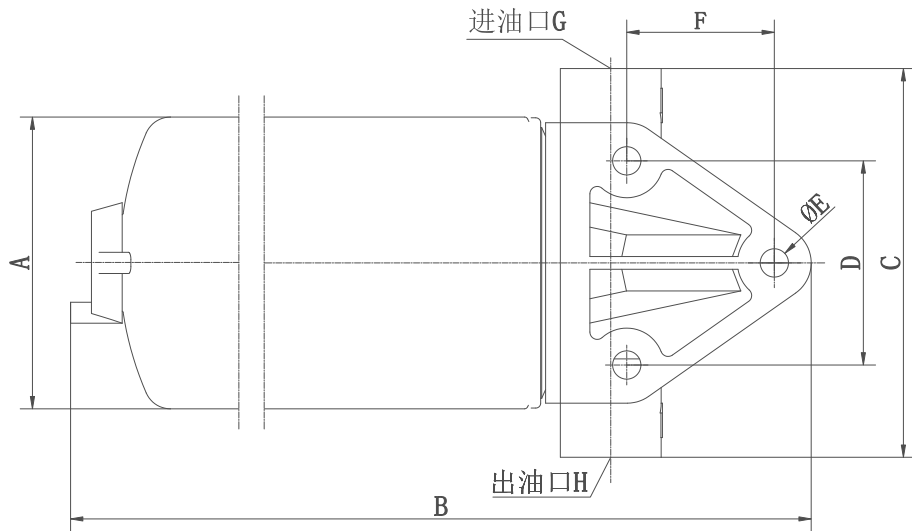
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					Product structure		
			A	B	C	D	E	Whether comes with seal ring	Whether with chamfer	Notes
1	GLQ007237341	60208879	φ109	205	φ90	φ80	1-14UNF-2B	No	No	Comes with drain valve
2	160604020109A	60250800	φ119	313	φ110	φ96	1 1/4-12UNF-2B	No	No	Comes with drain valve

Oil-water separator - assembly



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance				Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency	Water separation efficiency	
1	GLQ009259457	60205949	10	15	99%@25um	95%	Excavator 37.5-95T



Main dimensions

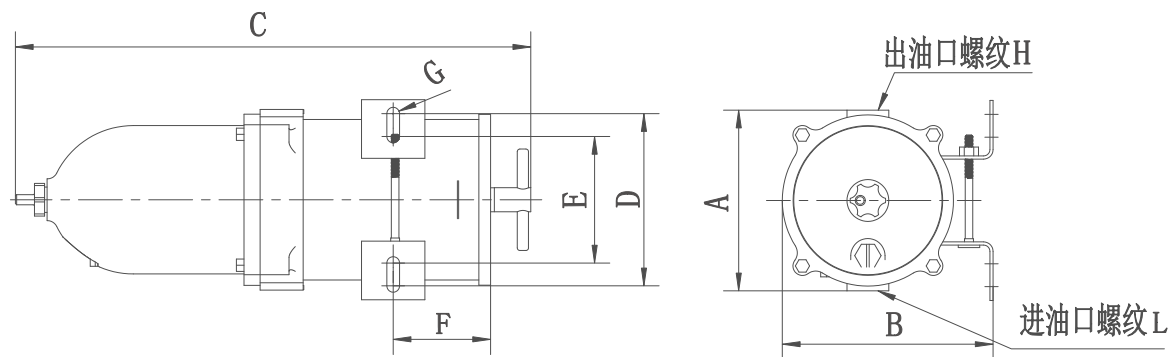
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)						
			A	B	C	D	E	F	G, H
1	GLQ009259457	60205949	φ119	420	158	83	11.5	60	M18*1.5-6H

Oil-water separator - assembly



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance				Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency	Water separation efficiency	
1	GLQ006946167	/	5	10	99%@40um	90%	Excavator 20-30.5T



Main dimensions

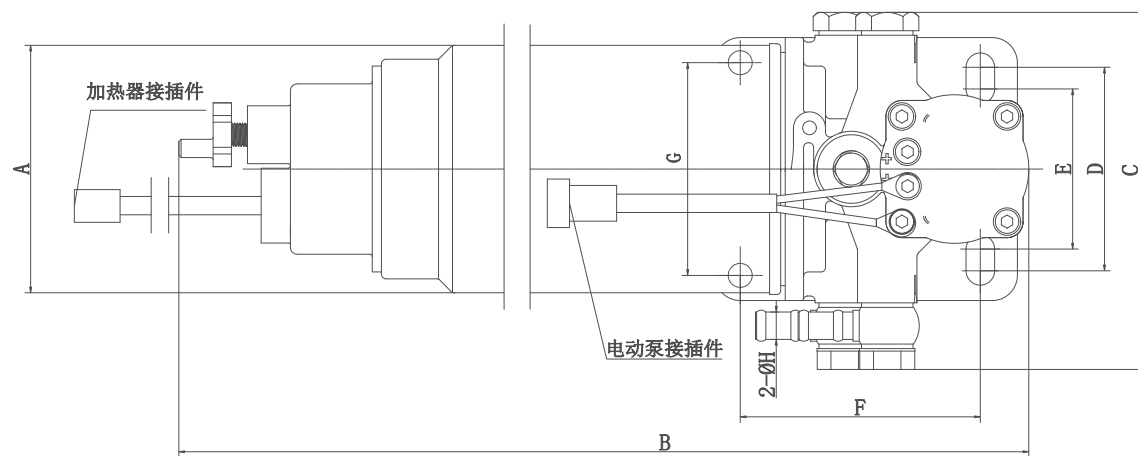
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)								Product structure Whether comes with bypass valve
			A	B	C	D	E	F	G	H, L	
1	GLQ006946167	/	143	166	407	136	100	78	R5	7/8-14UNF-2B	Yes

Oil-water separator - assembly



Performance parameters

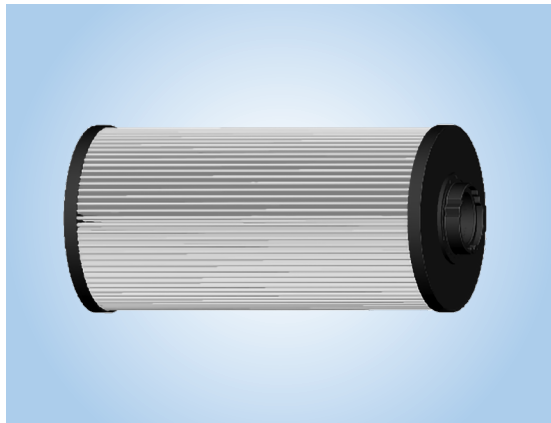
Serial Number	STE Code	Replaceable Code	Product Performance				Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency	Water separation efficiency	
1	60358717	/	7.6	15	99%@10um	95%	Deutz engine D09/D13



Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)								Product structure	
			A	B	C	D	E	F	G	H	Heater	Electric pump
1	60358717	/	φ109	425	156	89	70	105	93	φ12	Cable length: 220mm, connector model: AMP1-282080-1	Cable length: 150mm, Connector model DELPHI 15300002

Oil-water separator - environmental protection filter element



Mainly used for large, medium, and small excavators

Characteristics:

- Select composite fiber materials with high air permeability, stiffness, and oil resistance, with low flow resistance, high filtration efficiency, and longer service life;
- High oil-water separation efficiency throughout the entire service life;
- High reliability, suitable for various harsh conditions;
- Universal design, quickly meet customer order requirements.

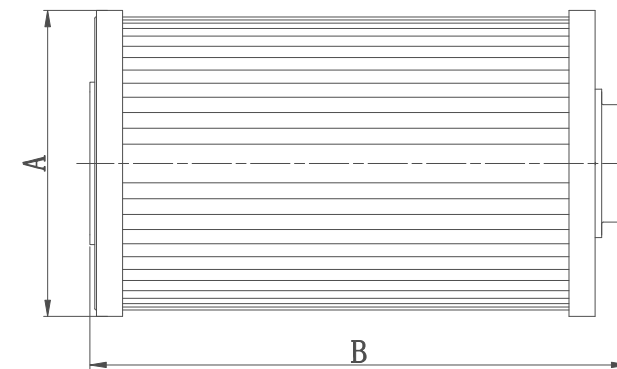
Application:



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance				Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency	Water separation efficiency	
1	60151839	/	3.5	5	98.7%@5um	95%	Excavator 5-87T
2	GLQ006728210	/	3.5	5	98.7%@5um	95%	Applicable to excavators 5-87T out-of-warranty products
3	60201220	/	3.5	5	98.7%@10um	95%	Isuzu 4JG1PAC/AU-4LE2XYSK/GH-6HK1XKSC/6WG1/AH-6UZ1X Kubota engine V2607/V3800
4	60249072	/	11.4	5	98%@10um	99%	Isuzu engine GH-6HK1XKSC/6WG1/AH-6UZ1X Engine DC16076A
5	GLQ007421973	60249072	11.4	5	98%@10um	99%	Isuzu engine GH-6HK1XKSC/6WG1/AH-6UZ1X Engine DC16076A
6	GLQ007357390	/	5	5	99%@40um	90%	Excavator 20-33T
7	60282026	/	3.5	5	99%@10um	95%	Mitsubishi Fuso Engine 4M50
8	GLQ009186865	160603020055A	5	7	99%@@10um	95%	Excavator 29.5-98T
9	GLQ007229628	160603020033B	1	5	95%@20um	90%	Excavator 1.6-5T
10	160603020043B	60307173	5	5	99%@@10um	95%	Isuzu engine GB3-4J1X/4H-K1/4M50/GH-6HK1XKSC Mitsubishi electronic fuel injection engine DO6FRC
11	B222100000729	B222100000729	5.7	5	98%@@30um	99%	Mitsubishi Fuso engine 4M50
12	GLQ009186109	160603020019A	2	5	99%@@10um	95%	Excavator 6T
13	14398271	/	5.7	5	98%@@30um	95%	/

The oil-water separator filters impurities and separates water from oil, effectively protecting the fuel filtration system. STE can provide customers with various models of environmental protection oil-water separators, and can design and manufacture products according to customer requirements.



Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)		Product structure
			A	B	Whether comes with sealing rings
1	60151839	/	φ94	205	Comes with an O-ring with inner diameter φ110*φ3.5 and a gasket of φ20*φ12*3
2	GLQ006728210	/	φ94	205	Comes with an O-ring with inner diameter φ110*φ3.5 and a gasket of φ20*φ12*3
3	60201220	/	φ94	205	Comes with an O-ring with inner diameter φ110*φ3.5 and a gasket of φ20*φ12*3
4	60249072	/	φ112	245	Comes with a rectangular sealing ring of φ127*φ120*3 and an O-ring with inner diameter of φ12*line diameter of φ2
5	GLQ007421973	60249072	φ112	245	Comes with a rectangular sealing ring of φ127*φ120*3 and an O-ring with inner diameter of φ12*line diameter of φ2
6	GLQ007357390	/	φ112	119	Comes with a sealing ring of φ128.5*φ120.5*3.6 and an O-ring with inner diameter of φ11.8*line diameter of 2.7
7	60282026	/	φ121	149	Comes with an O-ring with inner diameter of φ134.5*line diameter of 5.7
8	GLQ009186865	160603020055A	φ114	248	Comes with a sealing ring of φ137*φ130*3.5 and a sealing gasket of φ28*φ11.5*2
9	GLQ007229628	160603020033B	φ58.5	82.3	Comes with an O-ring with inner diameter of φ77.5*wire diameter of 2.65 and an O-ring with inner diameter of φ6*line diameter of φ2.5
10	160603020043B	60307173	φ113	175	Comes with a sealing ring of φ137*φ130*3.5 and a sealing gasket of φ28*φ11.5*2
11	B222100000729	B222100000729	φ113	120	Comes with a sealing ring of φ127*φ120*3.5 and an O-ring with inner diameter of φ11.5*line diameter of φ2
12	GLQ009186109	160603020019A	φ94.5	179	Comes with an O-ring of inner diameter of φ110*wire diameter of φ3.55 and a sealing gasket with inner diameter of φ28*φ12*2
13	14398271	/	φ113.5	120	Comes with an O-ring with inner diameter of φ11.5 * wire diameter of φ2, a sealing gasket of φ19 * φ14 * 3, and a sealing gasket of φ127*φ120*3.5

Fuel filter - spin-on filter



Mainly used for large, medium, and small excavators and other construction machinery

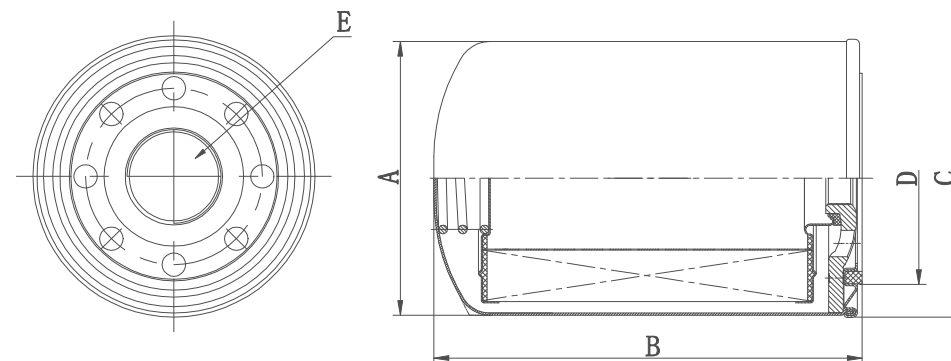
Characteristics:

- Select composite fiber materials with high air permeability, stiffness, and oil resistance, with low flow resistance, high filtration efficiency, and longer service life;
- High reliability, suitable for various harsh conditions;
- Universal design, quickly meet customer order requirements.

Application:



The fuel filter filters tiny impurities, effectively protecting the fuel filtration system. STE can provide customers with various models of fuel filters, which can be matched with the engine base according to customer requirements.



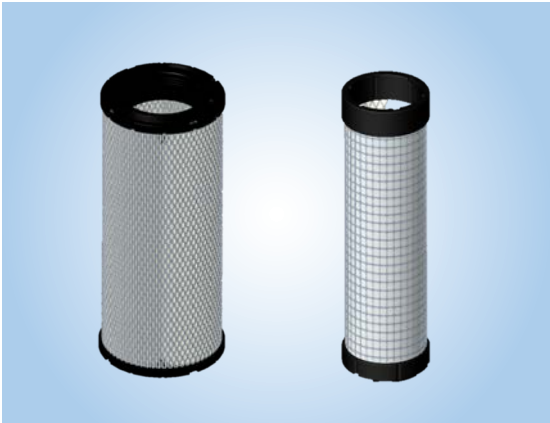
Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency	
1	160604010034B	160604020018	3.8	5	95%@4um	SCC7000-8000
2	60265683	/	10	10	99%@4um	Deutz engine D07/D09
3	60263487	/	10	10	99.5%@5um	Deutz engine D12/D13
4	160604020124B	60273108	1.2	3.5	99%@4um	Excavator 1.8-3.5T
5	160604020123B	60273110	1.2	3.5	99%@4um	Excavator 3.5-6T
6	GLQ009185485	160604020032A	3.5	5	99.9%@4um	Excavator 6T
7	GLQ007074643	60208878	6.3	5	99.9%@4um	Cummins engine ISLE37530
8	160604020060B	60220063	1.6	5	98.7%@5um	Kubota engine V2607/V3800 Isuzu engine AU-4LE2XYSK
9	GLQ008464056	60176475P	5	5	99.7%@4um	Mitsubishi electronic fuel injection engine DO6FRC
10	GLQ008464071	60310823	3.5	5	99.9%@4um	Mitsubishi Fuso Engine 4M50
11	160604020055B	60282117	3.5	5	99.9%@4um	Isuzu engine GB3-4J1X/4HK1/GH-6HK1XKSC/AH-6UZ1X/6WG1
12	B222100000520	/	2.5	5	95%@20um	Excavator 23T SYC4022R/SR150C
13	B222100000730	/	1.2	5	98.7%@20um	Isuzu 4JG1PAC
14	B222100000492	/	3.5	5	95%@5um	Excavator 28-38.5T
15	60205961	/	3.5	3	98.7%@4um	/
16	14398264	/	2.5	5	95%@5um	/
17	B222100000521	/	2.5	5	95%@5um	/
18	14398315	/	3.5	5	95%@5um	Excavator 28-38.5T

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					Product structure	
			A	B	C	D	E	Whether comes with diversion pipe	Whether with chamfer
1	160604010034B	160604020018	φ109	260	φ102	φ92	M32*1.5-6H	No	No
2	60265683	/	φ109	242	φ102	φ92	1-14UNF-2B	Yes	No
3	60263487	/	φ94	146	φ72	φ62	M18*1.5-6H	No	No
4	160604020124B	60273108	φ90	80	φ62.5	φ54	M20*1.5-6H	No	No
5	160604020123B	60273110	φ90	160	φ62.5	φ54	M20*1.5-6H	No	Yes
6	GLQ009185485	160604020032A	φ109	150	φ102	φ92	1-14UNS-2B	No	No
7	GLQ007074643	60208878	φ94	176	φ72	φ62	7/8-14UNF-2B	No	No
8	160604020060B	60220063	φ80	88	φ61.5	φ54	3/4-16UNF-2B	No	No
9	GLQ008464056	60176475P	φ94	175	φ73.5	φ67.5	1-14UNF-2B	No	No
10	GLQ008464071	60310823	φ109	204	φ102	φ92	1-14UNF-2B	No	No
11	160604020055B	60282117	φ109	198	φ101	φ92	M82*1.5-6H	No	No
12	B222100000520	/	φ94	128	φ71.2	φ62	3/4-16UNF-2B	No	Yes
13	B222100000730	/	φ81	81	φ62	φ54	3/4-16UNF-2B	No	No
14	B222100000492	/	φ94	178	φ71	φ62	1-14UNS-2B	No	No
15	60205961	/	φ108	157	φ105	φ94.5	7/8-14UNF-2B	No	No
16	14398264	/	φ94	127	φ62	φ54	M20*1.5-2B	No	Yes
17	B222100000521	/	φ94	127	φ62	φ54	M20*1.5-2B	No	Yes
18	14398315	/	φ94	178	φ71	φ62	1-14UNS-2B	No	No

Air filter element



Mainly used for large, medium, and small excavators and other construction machinery

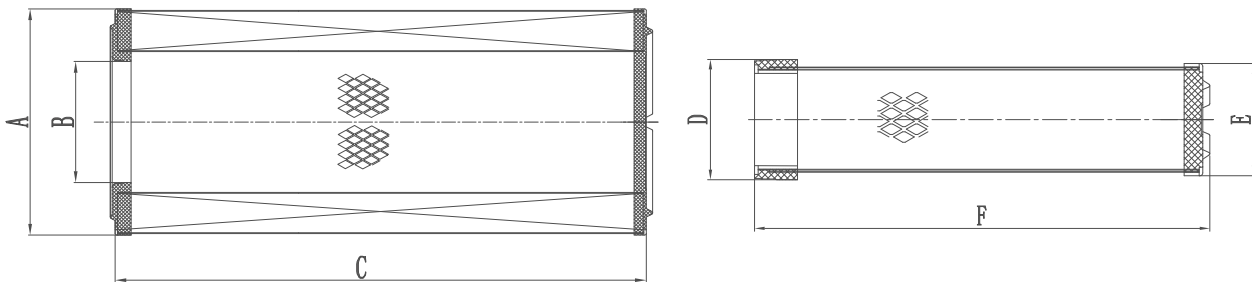
Characteristics:

- Using filter materials of imported brand, with the characteristics of low resistance, high efficiency, and long service life;
- Using polyurethane of imported brand, with good resilience, combined with mold design to achieve a multi-level sealing effect;
- High reliability, suitable for various harsh conditions;
- Universal design, quickly meet customer orders.

Application:



The performance of the air filter directly affects the performance of the engine, playing a key role in the normal operation of the engine. STE can provide customers with a full range of excavator air filters, and can also quickly develop products according to customer requirements.



Performance parameters

Serial Number	STE Code		Replaceable Code		Product Performance			Applicable machine models
	Main filter	Safety filter	Main filter	Safety filter	Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	1606020 20057A	1606020 30043A	60023849	60023848	86.4	2.5	99.95	Excavator 1.6-2T
2	1606020 20056A	1606020 30042A	60123506	60123505	97.8	2.5	99.95	Excavator 2-5T
3	B222100 000593	B222100 000591	/	/	180	1.2	99.99	Excavator 5.5-9.5T
4	B222100 000500	B222100 000501	/	/	276	1.5	99.99	Kubota V3800 Isuzu engine GB3-4JJ1X
5	1606020 20060A	B222100 000501	B222100 000500	/	276	1.5	99.99	Excavator 6.5-15.5T
6	1606020 20046A	1606020 30054B	1606020 20032A	60222812	417	1.85	99.99	Excavator 5.5-9.5T
7	GLQ006 683777	1606020 30054B	60222811	60222812	417	1.85	99.99	Excavator 15.5T BHL75 SSR80-120
8	GLQ005794609		B222100 000593	B222100 000591	180	1.2	99.9	Isuzu engine 4JG-1PAC/AU-4LE2X-YSK Kubota engine V2607 Deutz engine D03
9	GLQ005794890		B222100 000500	B222100 000501	276	1.5	99.99	Excavator 6.5-15.5T BL70/ZT1

Main dimensions

Serial Number	STE Code		Replaceable Code		Product dimensions (mm)					
	Main filter	Safety filter	Main filter	Safety filter	A	B	C	D	E	F
1	160602020057A	160602030043A	60023849	60023848	φ89	φ45	180	φ45	φ43	175
2	160602020056A	160602030042A	60123506	60123505	φ105	φ62	265	φ61	φ59	265
3	B222100000593	B222100000591	/	/	φ136	φ81	321	φ84	φ78	320
4	B222100000500	B222100000501	/	/	φ163	φ91	356	φ94	φ88	345
5	160602020060A	B222100000501	B222100 000500	/	φ163	φ91	356	φ94	φ88	345
6	160602020046A	160602030054B	1606020 20032A	60222812	φ185	φ105	388	φ106	φ102	377
7	GLQ006683777	160602030054B	60222811	60222812	φ185	φ105	388	φ106	φ102	377
8	GLQ005794609		B222100 000593	B222100 000591	φ136	φ81	321	φ84	φ78	320
9	GLQ005794890		B222100 000500	B222100 000501	φ163	φ91	356	φ94	φ88	345

Air filter element



Mainly used for large, medium, and small excavators and other construction machinery

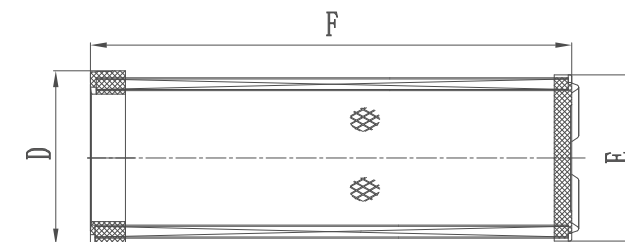
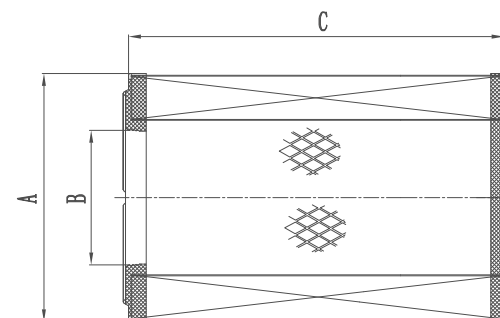
Characteristics:

- Using filter materials of imported brand, with the characteristics of low resistance, high efficiency, and long service life;
- Using polyurethane of imported brand, with good resilience, combined with mold design to achieve a multi-level sealing effect;
- High reliability, suitable for various harsh conditions;
- Universal design, quickly meet customer order requirements.

Application:



The performance of the air filter directly affects the performance of the engine, playing a key role in the normal operation of the engine. STE can provide customers with a full range of excavator air filters, and can also quickly develop products according to customer requirements.



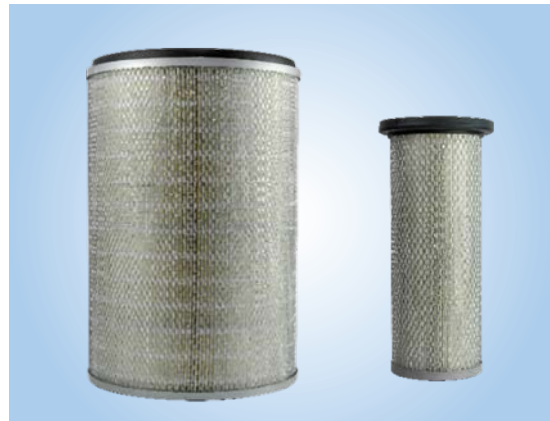
Performance parameters

Serial Number	STE Code		Replaceable Code		Product Performance			Applicable machine models
	Main filter	Safety filter	Main filter	Safety filter	Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	B22210000535	B22210000532	/	/	528	2.5	99.99	21.5T CN stage II excavator
2	GLQ008514697	GLQ008515555	A22210000430	A22210000429	528	2.5	99.99	15.5-16.5T CN stage III excavator
3	160602020040A	160602030032A	/	/	528	2.5	99.99	15.5-21.5T CN stage IV excavator
4	60310784	60310783	/	/	1120	2.5	99.99	SYL956/SW956 loader
5	60207265	60207264	/	/	660	1.2	99.99	Mitsubishi Fuso Engine 4M50 Isuzu 4HK1 Mitsubishi electronic fuel injection engine DO6FRC
6	GLQ007581766	GLQ007517198	60207265	60207264	660	1.2	99.99	Excavator 12.5-16.5T
7	B22210000641	B22210000640	/	/	930	1.2	99.99	Isuzu engine GH-6HK1XKSC/6WG1/AH-6UZ1X
8	GLQ007418384	GLQ007418885	B22210000641	B22210000640	930	1.2	99.99	Excavator 36.5-98.5T
9	GLQ007418905	GLQ007418906	B22210000426	B22210000427	1590	2.5	99.99	Excavator 36-165T SQ152/SR285
10	GLQ009044897		160602010091A001		1160	2.5	99.95	GJBDP412/GJBDP410
11	GLQ009044878		160602010092A001		1600	3.2	99.95	GJBDP412/GJBDP410
12	60201402	60201403	/	/	600	1.5	99.95	Isuzu EU stage III road roller
13	GLQ009151451	GLQ009830544	60188055	60188056	1398	2.5	99.95	SCP460/RSC45
14	GLQ009217540	GLQ009217572	160602020036A	160602030026A	1800	3	99.8	ZZXDP362 construction truck
15	GLQ009212463		160602010079A001		1800	3	99.8	ZZXDP354/ZZXDP465/ZZX-DP456
16	GLQ005795587		60207265	60207264	660	1.2	99.99	Excavator 20-24.5T
17	GLQ005795690		B22210000641	B22210000640	930	1.2	99.99	Isuzu engine GH-6HK1XKSC/6WG1/AH-6UZ1X

Main dimensions

Serial Number	STE Code		Replaceable Code		Product dimensions (mm)					
	Main filter	Safety filter	Main filter	Safety filter	A	B	C	D	E	F
1	B22210000535	B22210000532	/	/	φ237	φ130	330	φ134	φ127	322
2	GLQ008514697	GLQ008515555	A22210000430	A22210000429	φ237	φ130	472	φ134	φ127	464
3	160602020040A	160602030032A	/	/	φ237	φ130	357	φ134	φ127	346
4	60310784	60310783	/	/	φ281	φ148	425	φ150	φ142	411
5	60207265	60207264	/	/	φ281	φ148	510	φ150	φ142	496
6	GLQ007581766	GLQ007517198	60207265	60207264	φ281	φ148	510	φ150	φ142	496
7	B22210000641	B22210000640	/	/	φ313	φ177	510	φ180	φ170	498
8	GLQ007418384	GLQ007418885	B22210000641	B22210000640	φ313	φ177	510	φ180	φ170	498
9	GLQ007418905	GLQ007418906	B22210000426	B22210000427	φ361	φ227	620	φ227	φ220	625
10	GLQ009044897		160602010091A001		φ281	φ148	400	φ149	φ142	386
11	GLQ009044878		160602010092A001		φ313	φ177	464	φ180	φ170	451
12	60201402	60201403	/	/	φ280	φ175	452	φ173	φ166	441
13	GLQ009151451	GLQ009830544	60188055	60188056	φ362.8	φ228	480	φ230	φ221	483
14	GLQ009217540	GLQ009217572	160602020036A	160602030026A	φ332	φ220	512	φ216	φ212	479
15	GLQ009212463		160602010079A001		φ332	φ220	512	φ216	φ212	479
16	GLQ005795587		60207265	60207264	φ281	φ148	510	φ150	φ142	496
17	GLQ005795690		B22210000641	B22210000640	φ313	φ177	510	φ180	φ170	498

Air filter element



Mainly used for large excavators, heavy equipment, pumping machine, and other construction machinery

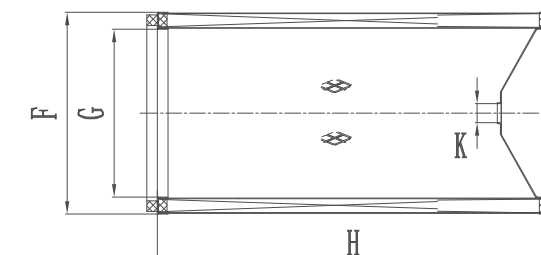
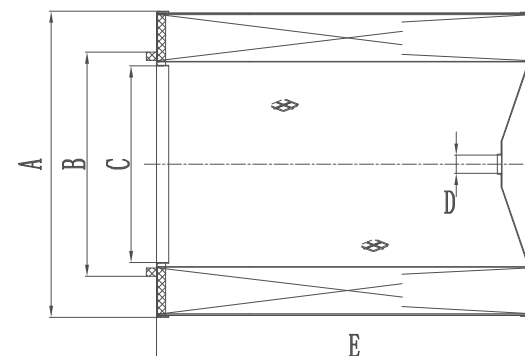
Characteristics:

- Using filter materials of imported brand, with the characteristics of low resistance, high efficiency, and long service life;
- Using high-performance EPDM foam rubber strips to ensure good sealing performance;
- High reliability, suitable for various harsh conditions;
- Universal design, quickly meet customer order requirements.

Application:



The performance of the air filter directly affects the performance of the engine, playing a key role in the normal operation of the engine. STE can provide customers with a full range of excavator air filters, and can also quickly develop products according to customer requirements.



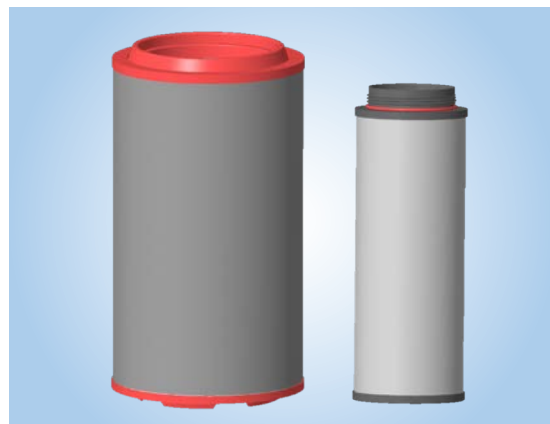
Performance parameters

Serial Number	STE Code		Replaceable Code		Product Performance			Applicable machine models
	Main filter	Safety filter	Main filter	Safety filter	Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	GLQ009225745	GLQ009217034	60170569	60170568	1590	2.5	99.95	Excavator 48.5-90T SR280
2	GLQ009275449	GLQ009275326	61020095	61020096	1620	2.94	99.95	SMHW36-70 STC250-1000 SYM5603
3	GLQ009044855	160602020026A	1160	2.5	99.95	2.5	99.99	GJBDP408/GJBDP306
4	GLQ009044858		A222100000166		1400	2.5	99.95	Excavator 42T SYC5026 SR220-280 SH350-400 SYM1250 GJBDP312
5	GLQ009139248		60013897		1818	2.5	99.95	Heavy equipment SRT33-95
6	60201405	60201404	/	/	900	2.5	99.95	Deutz BF6M
7	14078649	14078651	/	/	660	2.5	99.8	Road Machinery
8	B222100000534	B222100000530	/	/	930	2.5	99.95	Excavator 31T
9	B222100000533	B222100000531	/	/	360	2.5	99.95	Excavator 23T

Main dimensions

Serial Number	STE Code		Replaceable Code		Product dimensions (mm)								
	Main filter	Safety filter	Main filter	Safety filter	A	B	C	D	E	F	G	H	K
1	GLQ009 225745	GLQ009 217034	60170569	60170568	φ350	φ270	φ239	φ24	457	φ218	φ178	423	φ23
2	GLQ009 275449	GLQ009 275326	61020095	61020096	φ300	φ260	φ190	φ11	466	φ190	φ158	435	φ18
3	GLQ009 044855	1606020 20026A	1160	2.5	φ275	φ210	φ167	φ22	400	φ164	φ133	372	φ22
4	GLQ009044858		A222100000166		φ300	φ260	φ194	φ22	466	φ190	φ158	435	φ22
5	GLQ009139248		60013897		φ324	φ270	φ216	φ24	612	φ210	φ179	552	φ24
6	60201405	60201404	/	/	φ240	φ179	φ134	φ13	483	φ141	φ118	474	φ18
7	14078649	14078651	/	/	φ275	φ208	φ168	φ18	501	φ163	φ134	485	φ18
8	B222100 000534	B222100 000530	/	/	φ282	φ265	φ167	φ17	407	φ193	φ135	404	φ17
9	B222100 000533	B222100 000531	/	/	φ234	φ220	φ126	φ17	331	φ146	φ88	317	φ17

Air filter element



Mainly used for pumping, road machinery, and off-highway vehicles

Characteristics:

- Using filter materials of imported brand, with the characteristics of low resistance, high efficiency, and long service life;
- High reliability, suitable for various harsh conditions;
- Universal design, quickly meet customer order requirements.

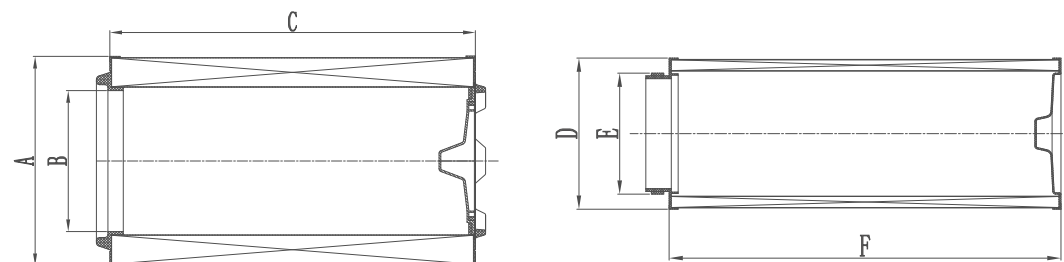
Application:



The performance of the air filter directly affects the performance of the engine, playing a key role in the normal operation of the engine. STE can provide customers with a full range of excavator air filters, and can also quickly develop products according to customer requirements.

Performance parameters

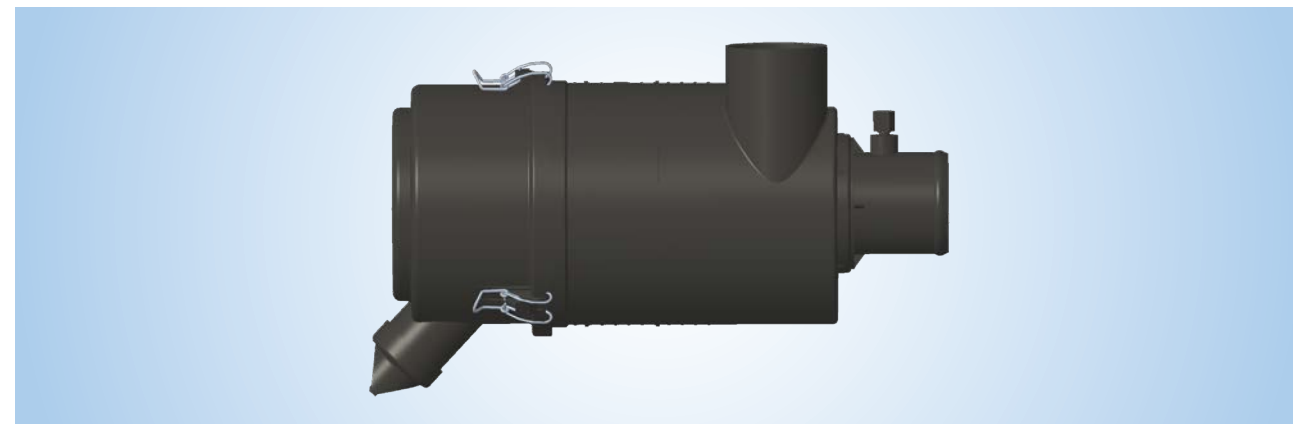
Serial Number	STE Code		Replaceable Code		Product Performance			Applicable machine models
	Main filter	Safety filter	Main filter	Safety filter	Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	GLQ005 238704	GLQ005 238814	B222100 000363	B222100 000364	2520	2.5	99.95	SAC1000-22000-STC800-1000630
2	60284727	60284726	/	/	1118	2.5	99.95	Excavator 26-28.5T SRSC45/SR265
3	60060806	/	/	/	900	2.5	99.95	SMP95/SCM10/SMP90/SAP90
4	B222100 000647	B222100 000646	/	/	1140	2.0	99.95	SAP90-2000/SSP80-218
5	GLQ009 212467	GLQ009 911971	1606020 20020A	1606020 30016A	2600	3.5	99.95	SKT90-100



Main dimensions

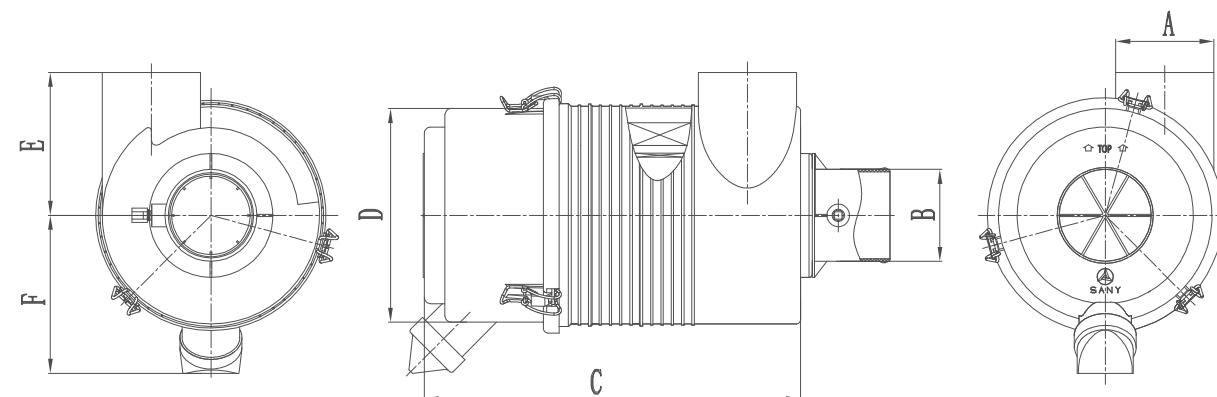
Serial Number	STE Code		Replaceable Code		Product dimensions (mm)					
	Main filter	Safety filter	Main filter	Safety filter	A	B	C	D	E	F
1	GLQ005 238704	GLQ005 238814	B222100 000363	B222100 000364	φ280	φ200	φ612	φ185	M172*6	φ606
2	60284727	60284726	/	/	φ284	φ194	φ548	φ185	M172*6	φ539
3	60060806	/	/	/	φ219	φ124	φ390	/	/	/
4	B222100 000647	B222100 000646	/	/	φ235	φ147	φ529	φ136	120	φ521
5	GLQ009 212467	GLQ009 911971	1606020 20020A	1606020 30016A	φ343	φ231	600	φ218	M74*6	568

Air filter assembly



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	160602010081A	60218893	180	1.5	99.99	Excavator 6.5-7.5T
2	160602010119A	B222100000458	298	1.5	99.99	Excavator 13-15.5T SPT22-26/BL70



Main dimensions

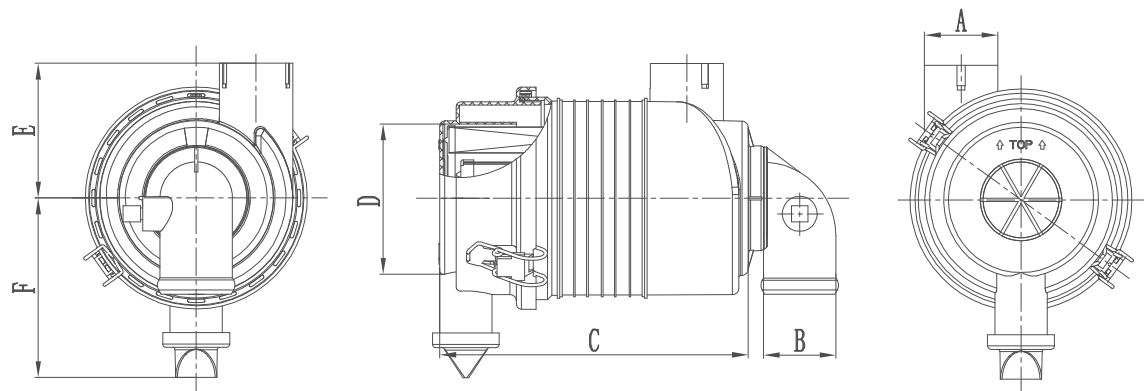
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	160602010081A	60218893	76	φ76	332	φ178	123	136
2	160602010119A	B222100000458	95	φ89	361	φ207	138	152

Air filter assembly



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	160602010108C	60017230	86.4	2.5	99.99	Excavator 1.6-1.8T
2	GLQ009134069	160602010108A	86.4	2.5	99.99	Excavator 1.6-1.8T with pressure difference indicator



Main dimensions

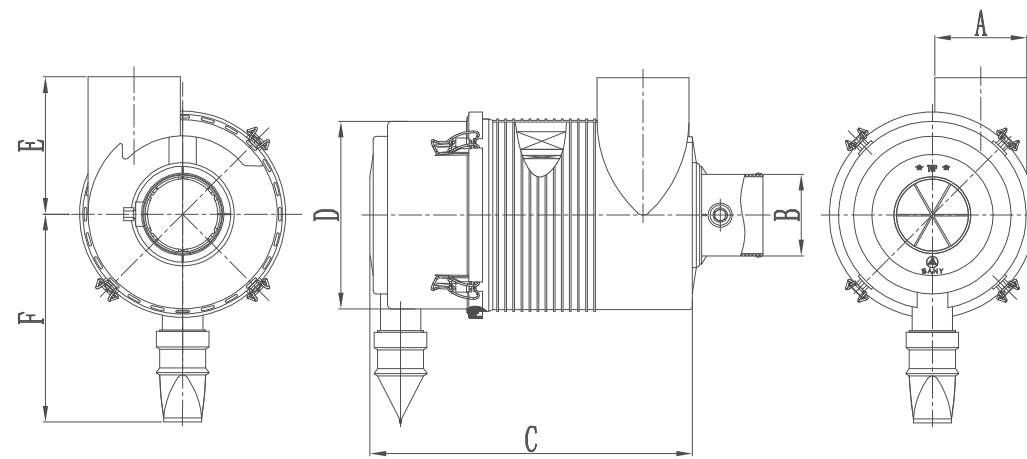
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	160602010108C	60017230	45	φ45	189	φ94	83	110
2	GLQ009134069	160602010108A	45	φ45	189	φ94	83	110

Air filter assembly



Performance parameters

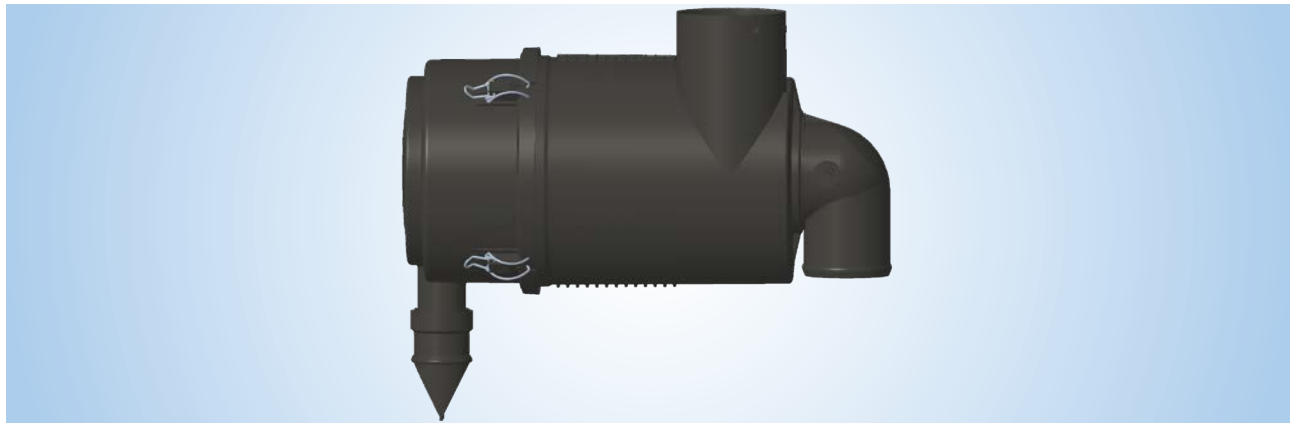
Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	160602010105A	61003134	417	1.85	99.99	SSR120-180 BHL75-95 Excavator 15.5T



Main dimensions

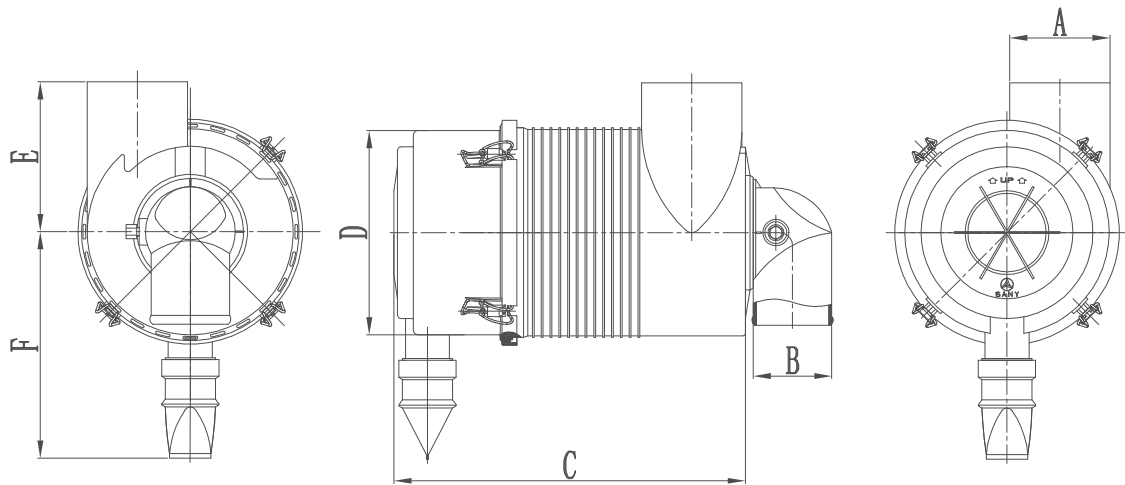
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	160602010105A	61003134	114	φ101	399	φ232	170	257

Air filter assembly



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	160602010140B	61019512	417	1.85	99.99	Excavator 12.5-15.5T SSR120//STC35



Main dimensions

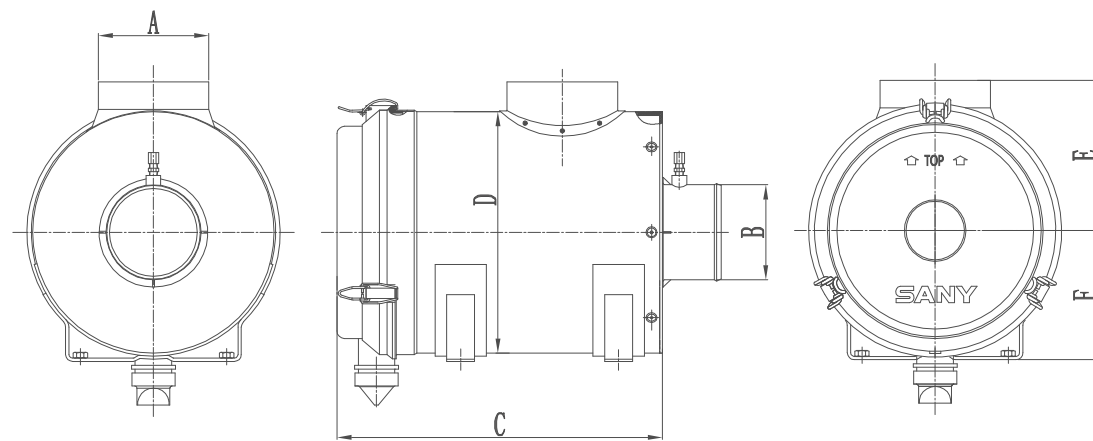
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	160602010140B	61019512	114	φ101	399	φ232	170	257

Air filter assembly



Performance parameters

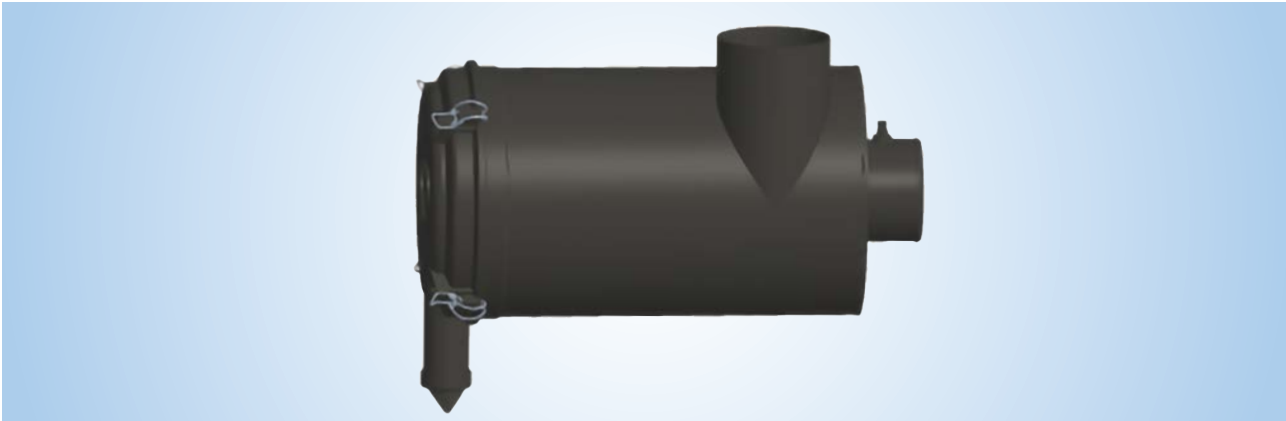
Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	GLQ009166905	B222100000544	1120	2	99.95	Drag pump 8018/12020
2	GLQ009167540	A222100000589	1620	2.94	99.95	SYM5386-5426 STC250-400



Main dimensions

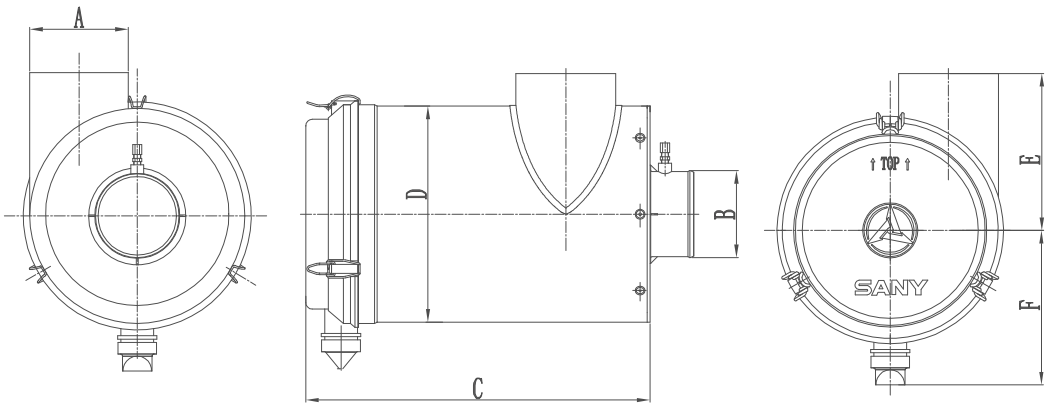
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	GLQ009166905	B222100000544	φ151	130	425	φ330	205	177
2	GLQ009167540	A222100000589	φ150	150	510	φ385	238	245

Air filter assembly



Performance parameters

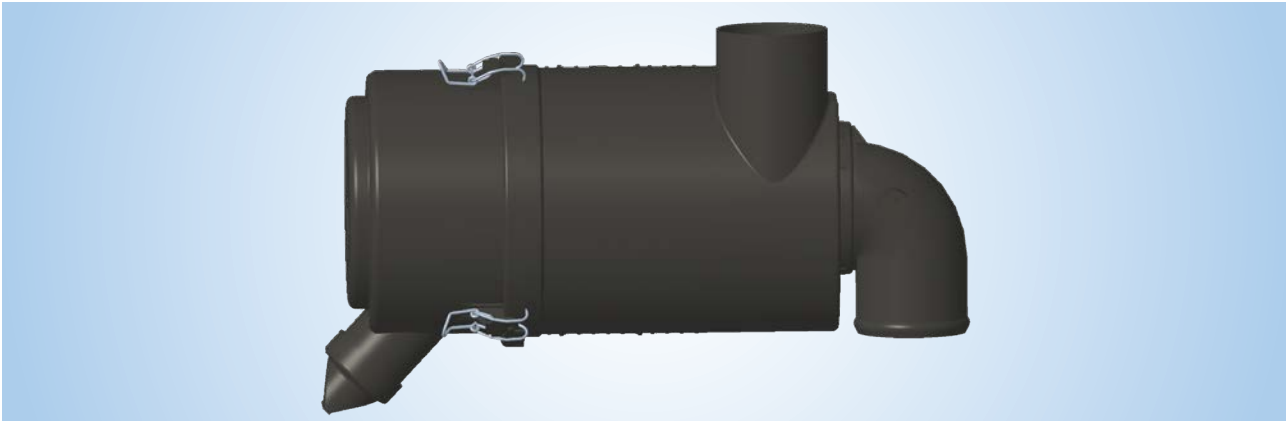
Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	GLQ007780275	60159322 60207263	660	1.2	99.99	Q25-110 STG190-230
2	GLQ007576484	60125399	930	1.2	99.99	Excavator 30.5-50T Q75-260
3	160602010145A	60027786	1590	2.5	99.99	Excavator 90-165T Q150-800



Main dimensions

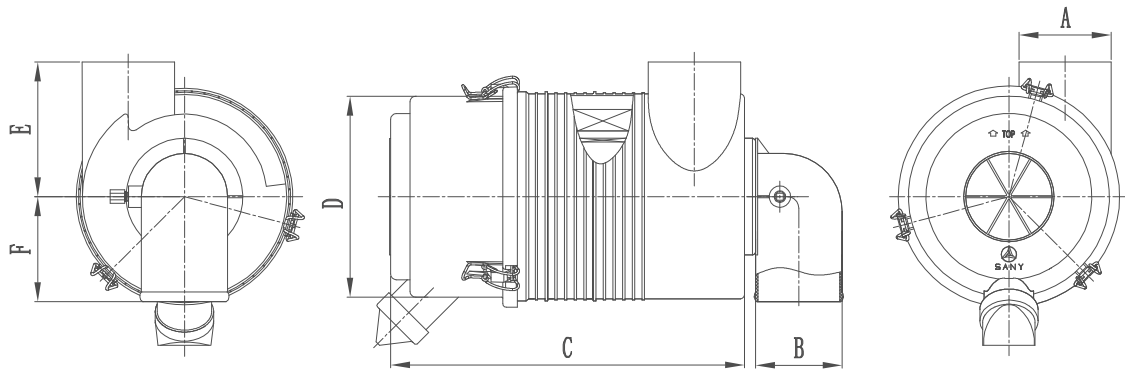
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	GLQ007780275	60159322 60207263	φ152	φ127	530	φ330	216	235
2	GLQ007576484	60125399	φ177	φ152	530	φ381	241	272
3	160602010145A	60027786	φ203	φ203	653	φ457	280	403

Air filter assembly



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	160602010110A	60114706	97.8	2.5	99.99	Excavator 3.5-5T
2	GLQ007426935	B222100000599	180	1.5	99.99	Excavator 6.5-7.5T
3	160602010120A	60211458	298	1.5	99.99	Excavator 13-15.5T SPT22-26/BL70



Main dimensions

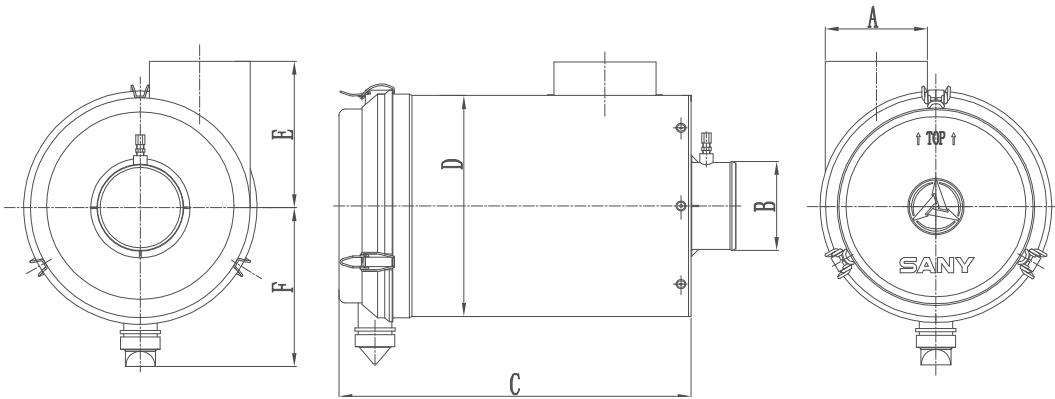
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	160602010110A	60114706	φ50	φ50	279	φ140	87	118
2	GLQ007426935	B222100000599	φ76	φ76	332	φ178	123	92
3	160602010120A	60211458	φ95	φ89	361	φ207	138	108

Air filter assembly



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	GLQ007576479	60125399	660	1.2	99.99	Excavator 30.5-50T Q75-260
2	160602010144A	60241870	930	1.2	99.99	Excavator 36.5-60T STG260-335
3	GLQ008571939	A222100000413	528	1.2	99.99	Excavator 15-21.5T



Main dimensions

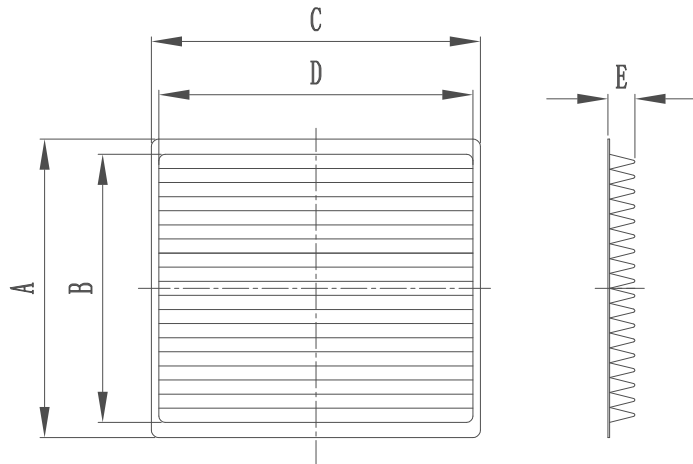
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	GLQ007576479	60125399	φ152	φ127	530	φ330	216	235
2	160602010144A	60241870	φ177	φ152	530	φ381	241	272
3	GLQ008571939	A222100000413	φ127	φ112	489	φ279	190	248

Air conditioning filter



Performance parameters

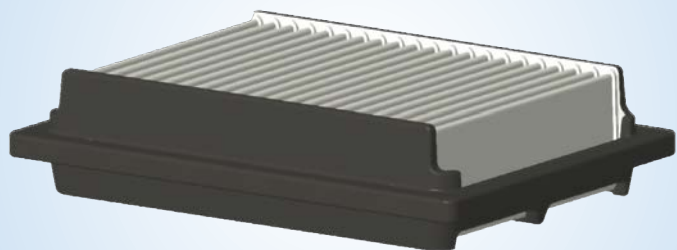
Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency	
1	B222100000711K	/	300	42	60%@10um	Excavator 13.5-65T
2	141502000382B	/	300	42	60%@10um	Excavator 13.5-65T



Main dimensions

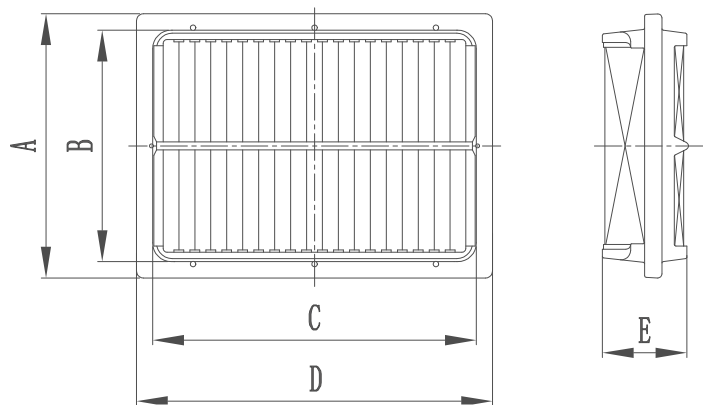
Serial Number	STE Code	Replaceable Code	Product dimensions (mm)				
			A	B	C	D	E
1	B222100000711K	/	195	175	215	205	17
2	141502000382B	/	219	178	219	206	17

Air conditioning filter



Performance parameters

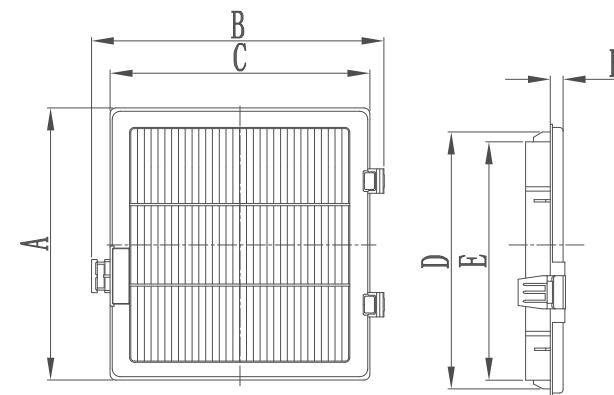
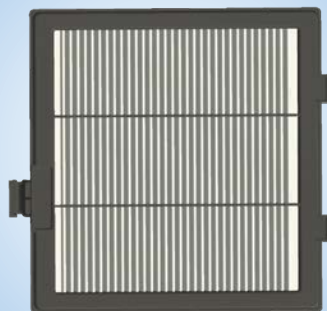
Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	60250669	/	300	42	90%@10um	Excavator 7.5-75T
2	141502000438B	/	300	42	90%@10um	Excavator 20-36T
3	B222100000660K	/	300	42	90%@10um	Excavator 7.5-75T



Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)				
			A	B	C	D	E
1	60250669	/	167	146	203	223	54
2	141502000438B	/	167	146	192	229	54
3	B222100000660K	/	167	146	203	223	54

Air conditioning filter

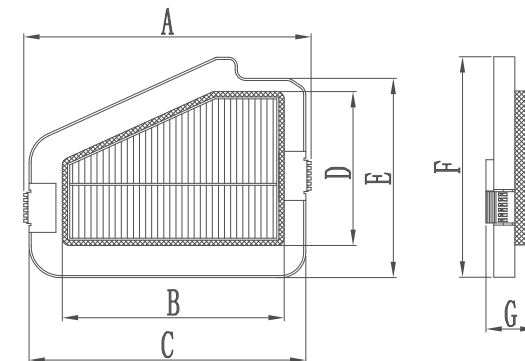
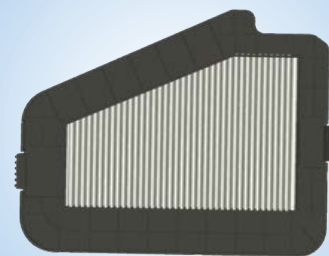


Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow (L/min)	Initial resistance (kPa)	Filtration efficiency	
1	GLQ008359502	60278857	300	42	90%@10um	Excavator 36.5-50T

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)				
			A	B	C	D	E
1	GLQ008359502	60278857	242	263	232	229	213



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow (L/min)	Initial resistance (kPa)	Filtration efficiency	
1	GLQ009288438	141502000797B	300	42	90%@10um	Excavator 135-985T

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)						
			A	B	C	D	E	F	G
1	GLQ009288438	141502000797B	272	210	262	146	189	209	47

Oil suction filter



Mainly used for large, medium, and small excavators

Characteristics:

- Made of stainless steel SUS304 metal mesh, with characteristics of low flow resistance, more corrosion resistance, and longer service life;
- High reliability, suitable for various harsh conditions;
- Universal design, quickly meet customer order requirements.

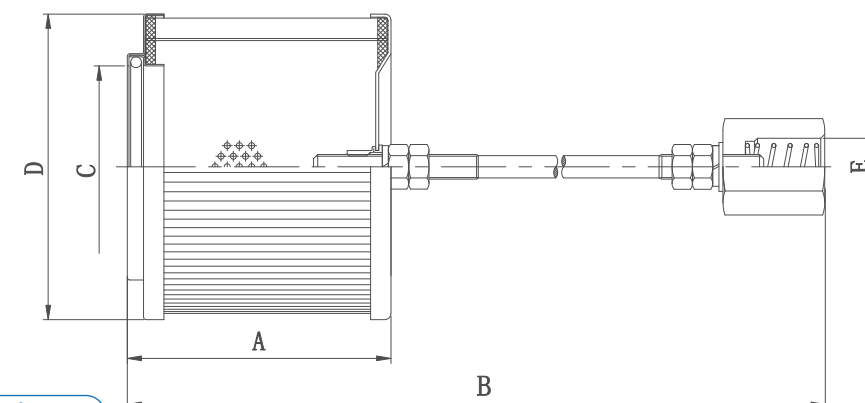
Application:



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency	
1	GLQ009259531	60205015	1400	20	170um	Excavator 60-87T SR285-315
2	GLQ009254099	60251436	1400	20	170um	Isuzu 6WG1/AH-6UZ1X
3	GLQ009265950	60274030	800	10	170um	Isuzu engine GH-6HK1XKSC
4	GLQ009003832	151502000081A	800	10	170um	Excavator 13.5-15.5T
5	GLQ008751312	151505000019A	800	10	170um	Excavator 21.5-30.5T
6	GLQ008742931	151502000095A	800	10	170um	Excavator 20.5T
7	GLQ008136789	60200364	800	10	170um	Excavator 15-20.5T
8	GLQ008154886	60101257	800	10	170um	Excavator 21.5-33.5T
9	GLQ008680106	151505000024A+139999000456A	800	10	100um	Excavator 20-33.5T
10	GLQ008450364	60200363	800	10	100um	Mitsubishi engine 4M50/4HK1 Mitsubishi electronic fuel injection engine DO6FRC
11	GLQ009261701	60243330	250	10	60um	Excavator 7.5T
12	GLQ009262288	60081613	250	10	60um	Excavator 5.5-6T
13	GLQ009802882	151502000080B	250	10	60um	Excavator 5.5T
14	GLQ009816026	/	250	10	60um	Excavator 7.5T
15	GLQ009260406	60082694	250	10	60um	Isuzu 4JG1PAC/4LE2XYSK Kubota engine V2607/V3800 Deutz engine D03
16	151502000067A	/	800	10	170um	Filter element assembly (with nut)
17	GLQ008774134	60167852	800	10	170um	Filter element accessory
18	GLQ009901145	151505000024A	800	10	100um	Filter element accessory

The oil suction filter is set at the front end of the hydraulic system, at the initial position of the circuit in front of the hydraulic pump, and functions to filter out large particle contaminants that are originally present in the system and later enter the system.



Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)				
			A	B	C	D	E
1	GLQ009259531	60205015	300	1060	φ154	φ198	φ28
2	GLQ009254099	60251436	300	1060	φ154	φ198	φ28
3	GLQ009265950	60274030	100	870	φ99	φ150	φ28
4	GLQ009003832	151502000081A	129.5	930	φ99	φ150	φ28
5	GLQ008751312	151505000019A	129.5	810	φ99	φ150	φ28
6	GLQ008742931	151502000095A	129.5	710	φ99	φ150	φ28
7	GLQ008136789	60200364	129.5	658	φ99	φ150	φ28
8	GLQ008154886	60101257	129.5	760	φ99	φ150	φ28
9	GLQ008680106	151505000024A+139999000456A	204	882	φ99	φ150	φ28
10	GLQ008450364	60200363	204	658	φ99	φ150	φ28
11	GLQ009261701	60243330	224	720	φ59.3	φ120	φ24
12	GLQ009262288	60081613	224	466	φ59.3	φ120	φ24
13	GLQ009802882	151502000080B	224	750	φ59.3	φ120	φ24
14	GLQ009816026	/	224	844	φ59.3	φ120	φ24
15	GLQ009260406	60082694	224	/	φ59.3	φ120	/
16	151502000067A	/	129.5	/	φ99	φ150	φ28
17	GLQ008774134	60167852	129.5	/	φ99	φ150	φ28
18	GLQ009901145	151505000024A	204	/	φ99	φ150	/

Oil suction filter



Mainly used for large, medium, and small excavators and other construction machinery

Characteristics:

- Made of stainless steel SUS304 metal mesh, with characteristics of low flow resistance, more corrosion resistance, and longer service life;
- High product reliability, suitable for various harsh working conditions.

Application:

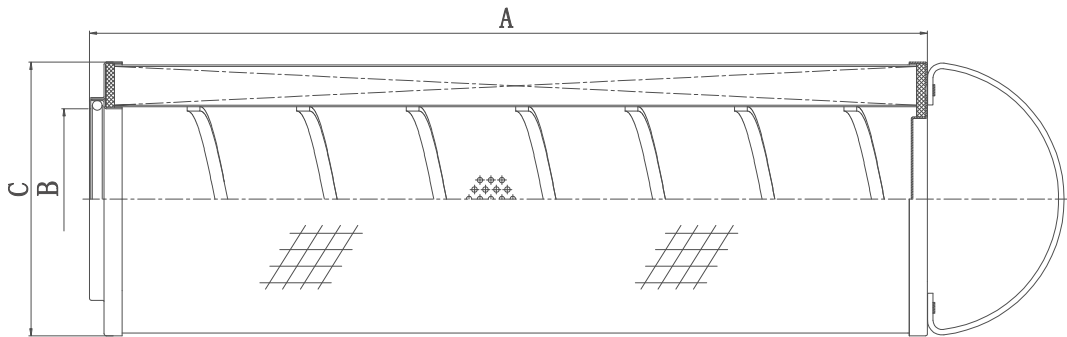


Heavy-duty Piling Machinery

The oil suction filter is set at the front end of the hydraulic system, at the initial position of the circuit in front of the hydraulic pump, and functions to filter out large particle contaminants that are originally present in the system and later enter the system.

Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency %	
1	GLQ009782010	WGP200000035417	850	10	100um	Jingong 953 loader



Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)		
			A	B	C
1	GLQ009782010	WGP200000035417	460	Φ85.5	φ150

Oil return filter



Mainly use for excavators, road machinery, pump trucks, heavy equipment, and crane

Characteristics:

- Adopt imported high-precision filter materials, with low flow resistance, high filtration efficiency, and longer service life;
- High product reliability, suitable for various harsh working conditions.

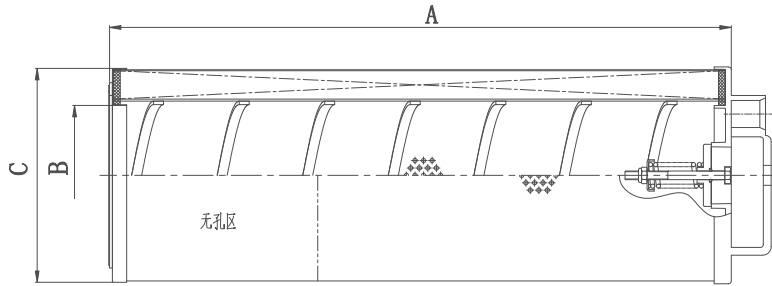
Application:



The oil return filter is set at the return oil pipeline at the end of the system and functions to filter out the contaminants generated or invaded in the system before they return to the oil tank, making it one of the most important filters for controlling system cleanliness.

Performance parameters

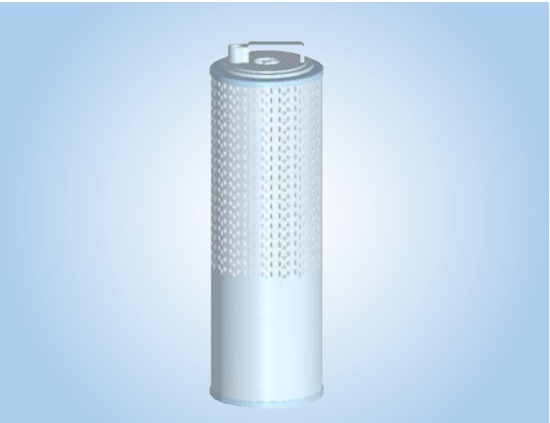
Serial Number	STE Code	Replaceable Code	Product Performance				Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency %	Bypass valve opening pressure (MPa)	
1	GLQ008383324	60101256	800	75	β10 (c) ≥10	0.17	Excavator 6.5-36.5T
2	60193267	/	800	75	β10 (c) ≥10	0.25	SCPS320/PJCZ30/HBC10028/C10520/BCZ490
3	GLQ009304180	60193266	960	75	β10 (c) ≥200	0.25	Pump truck 560C-680C
4	GLQ009281547	60193266	960	75	β10 (c) ≥10	0.25	/
5	GLQ009830369	151503000043B004/ 151503000090B001	1600	75	β10 (c) ≥100	None	SMHC160 Excavator 125T



Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)		
			A	B	C
1	GLQ008383324	60101256	436	φ98	φ150
2	60193267	60193267	439	φ98	φ150
3	GLQ009304180	60193266	510	φ110	φ170
4	GLQ009281547	60193266	517	φ110	φ170
5	GLQ009830369	151503000043B004/ 151503000090B001	604	φ110	φ178

Oil return filter



Mainly use for excavators, road machinery, pump trucks, heavy equipment, and crane

Characteristics:

- Adopt imported high-precision filter materials, with low flow resistance, high filtration efficiency, and longer service life;
- High product reliability, suitable for various harsh working conditions.

Application:

Excavator

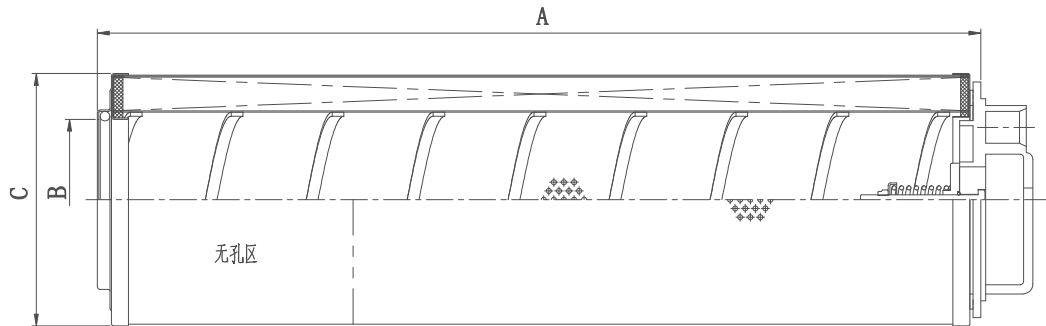
Crane

Truck-mounted concrete pump

Road Machinery

Heavy-duty Piling Machinery

The oil return filter is set at the return oil pipeline at the end of the system and functions to filter out the contaminants generated or invaded in the system before they return to the oil tank, making it one of the most important filters for controlling system cleanliness.



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance				Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency	Bypass valve opening pressure (MPa)	
1	GLQ008090837	60072195/151503000036	400	75	β10 (c) ≥10	0.17	Excavator 5.5-8.5T
2	GLQ008471460	60210416	180	50	β10 (c) ≥100	0.1	Isuzu engine GH-6HK1XKSC/6WG1/AH-6UZ1X Engine DC16076A
3	GLQ008133648	60200365	800	75	β10 (c) ≥10	0.17	Mitsubishi engine 4M50/DO6FRC/GH-6HK1XKSC
4	GLQ009253930	60114999	150	50	β10 (c) ≥75	0.17	Yanmar engine 3TNV88
5	GLQ008449764	60193541/151503000047A	1300	75	β10 (c) ≥200	0.25	Isuzu engine GH-6HK1XKSC/6WG1/AH-6UZ1X Engine DC16076A
6	GLQ009264030	61001603	1400	75	β10 (c) ≥200	0.25	Isuzu 4HK1/GH-6HK1XKSC
7	GLQ009263781	60205016	1800	75	β10 (c) ≥100	0.25	SD500/SET240/SF808/SR280/SR315 Excavator 28.5-87T
8	GLQ009259486	151503000101A	1400	75	β10 (c) ≥200	0.35	Excavator 20-55T
9	GLQ009746857	151505000084A	800	75	β10 (c) ≥10	None	SMHC42/SM-HW30~SMHW48/SW305~SW966/ Excavator 19.5-36.5T

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)		
			A	B	C
1	GLQ008090837	60072195/151503000036	450	φ75	φ112
2	GLQ008471460	60210416	225	φ75.4	φ112
3	GLQ008133648	60200365	525	Φ95.5	φ150
4	GLQ009253930	60114999	303	φ49.4	φ90
5	GLQ008449764	60193541/151503000047A	483	φ96	φ158
6	GLQ009264030	61001603	562	φ98	φ200
7	GLQ009263781	60205016	807	φ98	φ200
8	GLQ009259486	151503000101A	552	φ98.5	φ170
9	GLQ009746857	151505000084A	525	φ95.5	φ150

High-pressure filter element

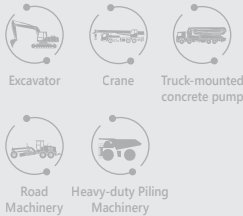


Mainly used for excavators, road machinery, pump trucks, heavy equipment, and cranes

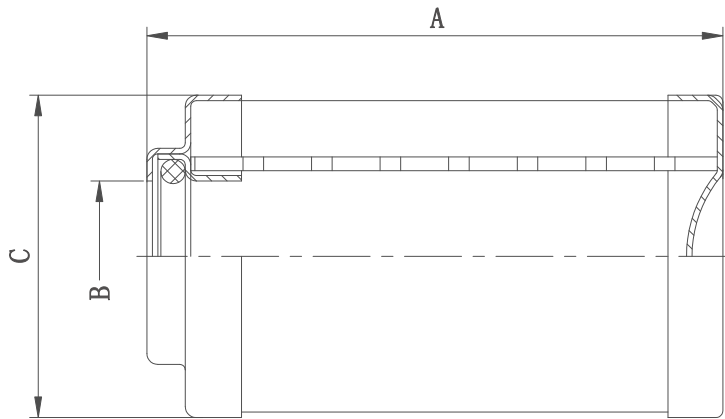
Characteristics:

- Adopt imported gradient glass fiber with high-precision and high-dirt holding capacity as filter materials, with low flow resistance, high filtration efficiency, and longer service life;
- High reliability, suitable for various harsh conditions;
- Universal design, quickly meet customer order requirements.

Application:



Used for high-pressure filters. The high-pressure pipeline filter is set at the outlet pipeline of the high-pressure pump to protect pollutants from entering the high-pressure hydraulic system, control the concentration of pollutants in the system, and play a key role in protecting the precision components of the high-pressure hydraulic system.



Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtration efficiency	
1	GLQ009244827	A222100000119	20	/	$\beta_{10}(c) \geq 100$	Excavator 10-98.5T SSC1025/SR315/SMHW40/ SH400/SD500 Q50-450
2	130299000006A001	/	150	/	$\beta_{20}(c) \geq 100$	SW755-966
3	GLQ009238787	60345316	110	/	$\beta_{10}(c) \geq 100$	LGA45/Q25~Q180
4	60283940	/	330	/	$\beta_{10}(c) \geq 200$	LGA45/SIR160/SZJ1000/ XDGV35
5	GLQ009239041	60233585	240	/	$\beta_{10}(c) \geq 100$	SD1000/Q85HD/Q75HD/ Q150HD
6	GLQ009796006	60263068	240	/	$\beta_{10}(c) \geq 200$	SSR220-SSR300/SCM- 500SCM/SCM2000/ STR130/SSR80/SSP95/ SAG200
7	GLQ009612404	60277890	400	/	$\beta_{10}(c) \geq 200$	J23-J179/JMH-22
8	GLQ009711636	60239649	400	/	$\beta_{10}(c) \geq 200$	Excavator 36.5-75T

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)		
			A	B	C
1	GLQ009244827	A222100000119	79	$\varphi 16$	$\varphi 45$
2	130299000006A001	130299000006A001	126	$\varphi 45.2$	$\varphi 90$
3	GLQ009238787	60345316	153	$\varphi 22$	$\varphi 47$
4	60283940	/	164	$\varphi 48$	$\varphi 90$
5	GLQ009239041	60233585	173	$\varphi 34.1$	$\varphi 70$
6	GLQ009796006	60263068	207	$\varphi 43$	$\varphi 80$
7	GLQ009612404	60277890	325.5	$\varphi 48$	$\varphi 90$
8	GLQ009711636	60239649	346	$\varphi 60$	$\varphi 103$

Oil return filter element

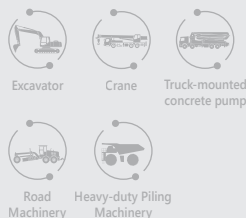


Mainly used for excavators, road machinery, pump trucks, heavy equipment, and cranes.

Characteristics:

- Adopt imported gradient glass fiber with high-precision and high-dirt holding capacity as filter materials, with low flow resistance, high filtration efficiency, and longer service life;
- High reliability, suitable for various harsh conditions;
- Adopt high-strength central tube inside the filter element, greatly improving the pressure resistance of the filter element.

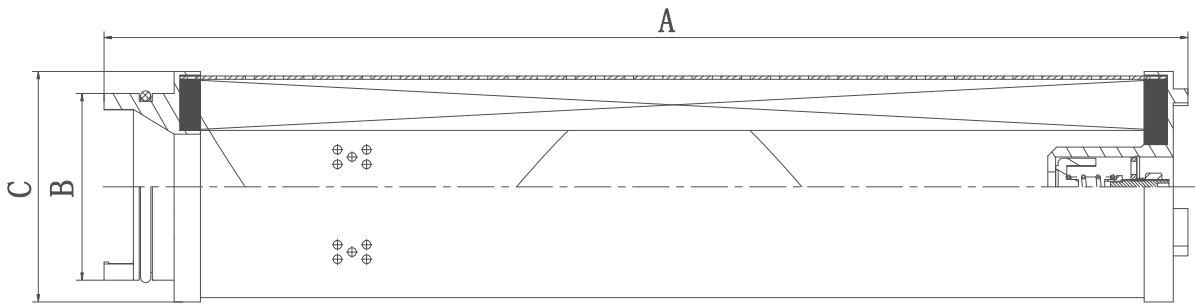
Application:



The oil return filter is set at the return oil pipeline at the end of the system and functions to filter out the contaminants generated or invaded in the system before they return to the oil tank, making it one of the most important filters for controlling system cleanliness.

Performance parameters

Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow (L/min)	Initial resistance (kPa)	Filtration efficiency	
1	GLQ009626378	60277891	760	/	$\beta_{12}(c) \geq 100$	J21-J1367/JMH6-22
2	61001646	/	160	/	$\beta_{10}(c) \geq 200$	STG190-335/SSR80-SSR260 SSP90-SSP185/SMG200-230 SCM500-SCM2000/ SAP30~SAP100



Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)		
			A	B	C
1	GLQ009626378	60277891	371	$\phi 64$	$\phi 79$
2	61001646	61001646	139	$\phi 25.6$	$\phi 67$

Pilot filter



Mainly used for excavators, concrete pumps, and crane

Characteristics:

- The casing is designed according to international standards, consisting of a filter cover and a screw-in cylinder, suitable for bidirectional flow of media;
- Adopt imported glass fiber with high-precision and high-dirt holding capacity as filter materials, with low flow resistance, high filtration efficiency, and longer service life;
- Adopt high-strength central tube inside the filter element, greatly improving the pressure resistance of the filter element.

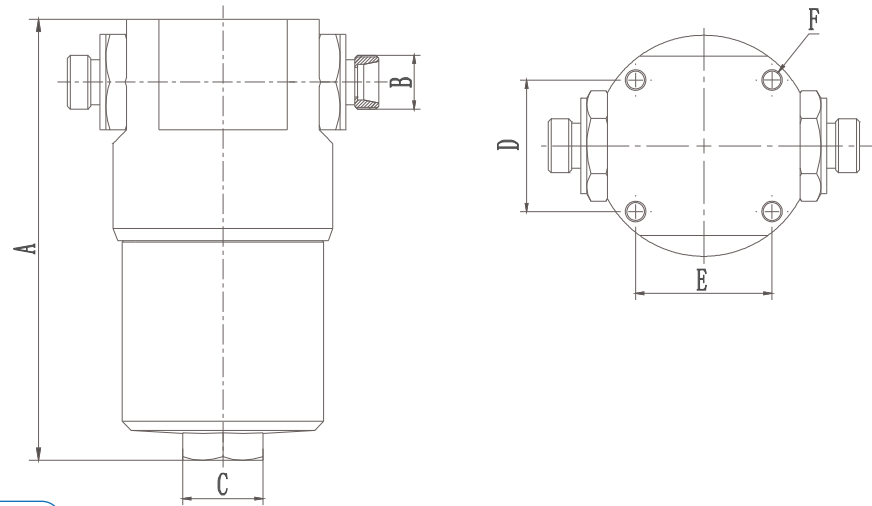
Application:



The pilot filter is set at the lubricating oil circuit of the pilot valve to protect the pilot valve and prevent the pilot valve from jamming or abnormal wear.

Performance parameters

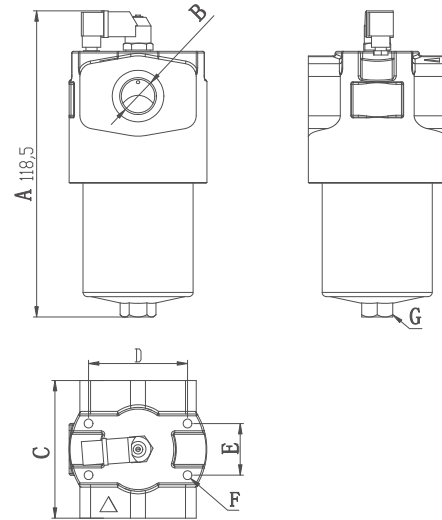
Serial Number	STE Code	Replaceable Code	Product Performance			Applicable machine models
			Rated flow (L/min)	Filtration efficiency	Working pressure (MPa)	
1	GLQ009423368	60211330	20	$\beta_{10}(c) \geq 100$	20	Excavator 5.5-33.5T/ SYL956/BL70
2	GLQ009428981	151501000071A	20	$\beta_{10}(c) \geq 100$	7	SD360-500 Excavator 12.5-98T
3	GLQ009425724	151501000049A	20	$\beta_{10}(c) \geq 100$	7	Excavator 5.5-40.5T



Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	GLQ009423368	60211330	152	2-M18×1.5 (external thread)	SW27	44	46	4-M8 depth 14
2	GLQ009428981	151501000071A	152	2-G3/8 (internal thread)	SW27	44	46	4-M8 depth 20
3	GLQ009425724	151501000049A	135	2-M18×1.5 (external thread)	SW30	44	46	4-M8 depth 18

High-pressure filter

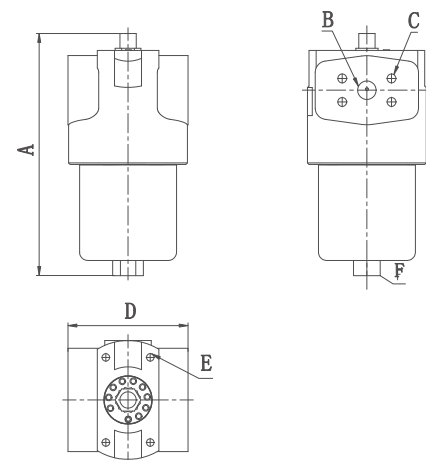


Performance parameters

Serial Number	STE Code	Replace-able code	Product Performance					Applicable machine models
			Rated flow L/min	Filtration efficiency	Maximum working pressure (MPa)	Transmitter alarm pressure difference (MPa)	Bypass valve opening pressure (MPa)	
1	GLQ009391476	15150100024B	330	$\beta_{10}(c) \geq 200$	42	0.5	0.6	SAC1100-SAC5000 SAG160-200/SAP45-120

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)						
			A	B	C	D	E	F	G
1	GLQ009391476	151501000024B	308	2-G1-1/2	160	115	60	4-M12 depth 17	SW36



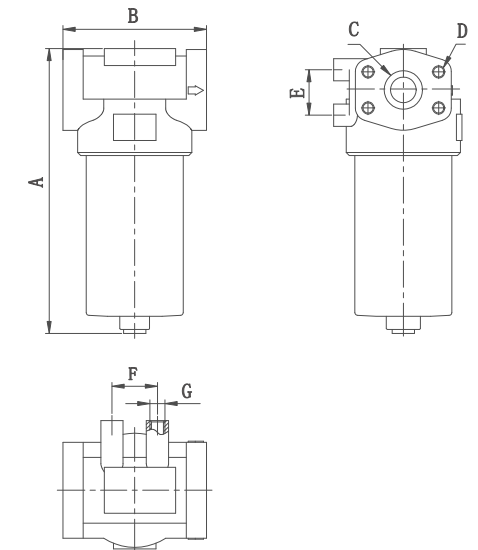
Performance parameters

Serial Number	STE Code	Replace-able code	Product Performance					Applicable machine models
			Rated flow L/min	Filtration efficiency	Maximum working pressure (MPa)	Transmitter alarm pressure difference (MPa)	Bypass valve opening pressure (MPa)	
1	GLQ009423820	151501000052A	330	$\beta_{10}(c) \geq 200$	42	0.5	0.6	SZJ1000/SMIR025/LGA45/ BCZ30/BCS630/BC25-67

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	GLQ009423820	151501000052A	330	$\phi 25$	4-M14 depth 20	162	4-M12 depth 20	SW36

High-pressure filter

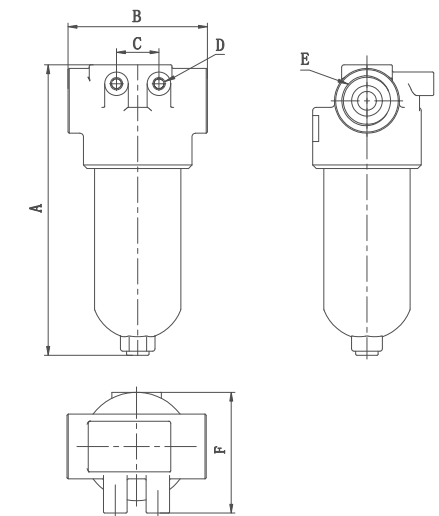


Performance parameters

Serial Number	STE Code	Replace-able code	Product Performance				Applicable machine models
			Rated flow L/min	Filtration efficiency	Woking pressure MPa	Bypass valve opening pressure (MPa)	
1	GLQ009597387	60197675	240	$\beta_{10}(c) \geq 100$	16	0.6	LGA45/SD1000 Excavator 12.5-15.5T

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)						
			A	B	C	D	E	F	G
1	GLQ009597387	60197675	282	142	$\phi 38$	4-M12 depth 20	45	45	4-M10 depth 12



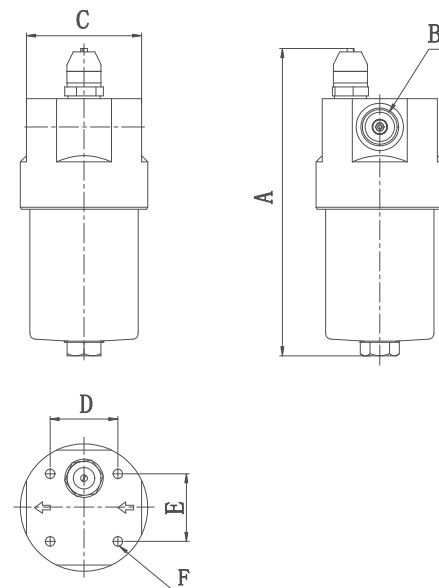
Performance parameters

Serial Number	STE Code	Replaceable code	Product Performance				Applicable machine models
			Rated flow L/min	Filtration efficiency	Woking pressure MPa	Bypass valve opening pressure (MPa)	
1	GLQ009520381	151501000022A	110	$\beta_{10}(c) \geq 100$	32	0.6	STJX23/SKT90-105/ SJX18/SAT40

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	GLQ009520381	151501000022A	249	118	36	2-M10	2-M42×2	104

High-pressure filter

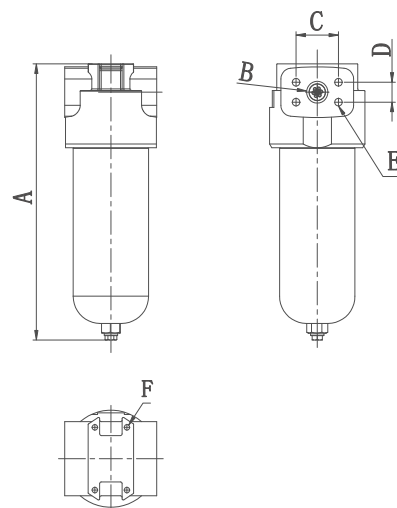


Performance parameters

Serial Number	STE Code	Replaceable code	Product Performance					Applicable machine models
			Rated flow L/min	Filtration efficiency	Working pressure MPa	Transmitter alarm pressure difference (MPa)	Bypass valve opening pressure (MPa)	
1	GLQ009768359	15150100061A	160	$\beta_{10}(c) \geq 200$	25	0.35	0.5	XPWZ04/SPJ3016/SMHL560/SD520/SCW4512/SCM1000

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	GLQ009768359	15150100061A	272.5	2-M33×2	102	60	60	4-M10 depth 17



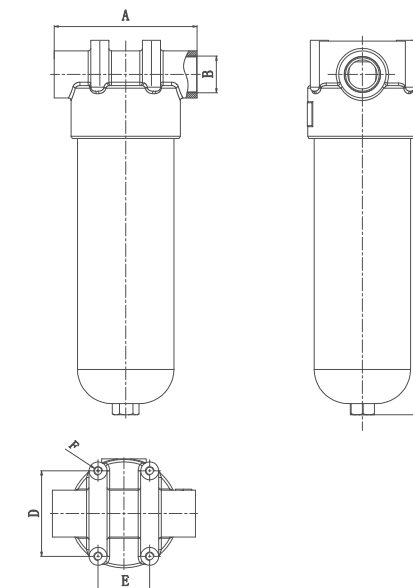
Performance parameters

Serial Number	STE Code	Replaceable code	Product Performance				Applicable machine models
			Rated flow L/min	Filtration efficiency	Working pressure MPa	Bypass valve opening pressure (MPa)	
1	GLQ009611787	60278222	800	$\beta_{10}(c) \geq 200$	42	0.6	J28-258 SKT100-130

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	GLQ009611787	60278222	502	$\phi 40$	79.4	36.7	4-M16 depth 27	4-M12 depth 20

High-pressure water filter



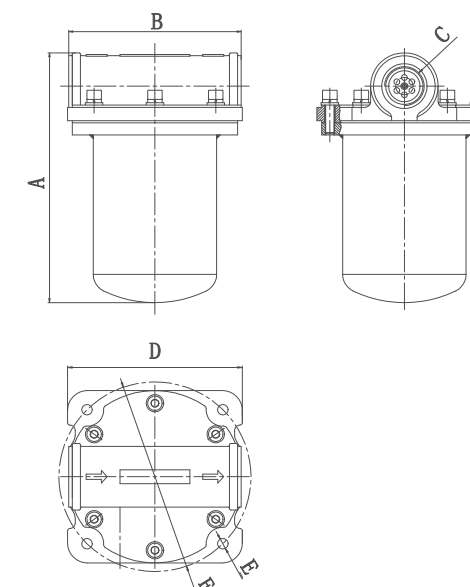
Performance parameters

Serial Number	STE Code	Replaceable code	Product Performance			Applicable machine models
			Rated flow L/min	Filtration efficiency	Working pressure MPa	
1	GLQ009770860	151504010002A	250	50 μ m	16	J82-202

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	GLQ009770860	151504010002A	166	G1 1/4	438	100	60	4-M10

Low-pressure filter



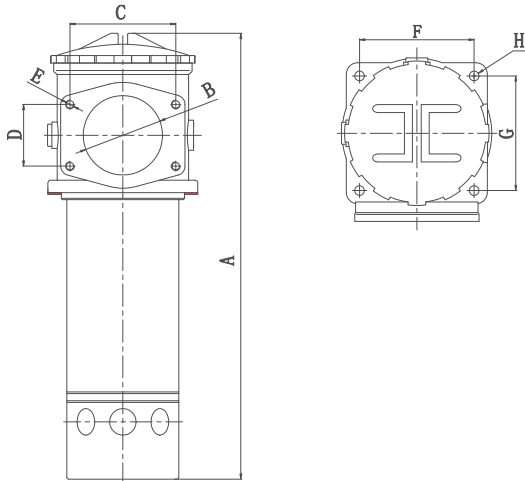
Performance parameters

Serial Number	STE Code	Replaceable code	Product Performance				Applicable machine models
			Rated flow L/min	Filtration efficiency	Working pressure MPa	Bypass valve opening pressure (MPa)	
1	130299000006A	/	150	$\beta_{20}(c) \geq 100$	4	0.35	SW755-966

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)					
			A	B	C	D	E	F
1	130299000006A	/	215	148	M33×2	150	$\phi 9$	$\phi 165$

Oil suction assembly



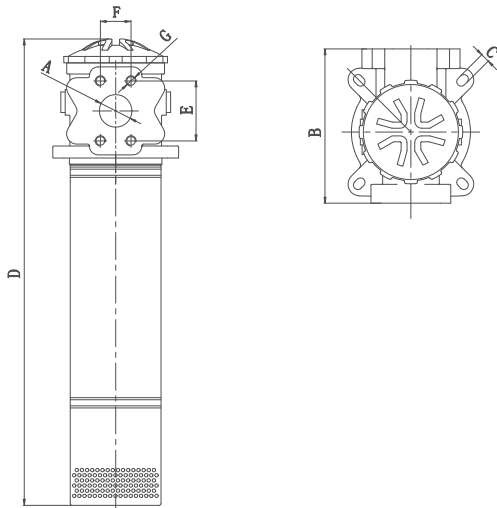
Performance parameters

Serial Number	STE Code	Replace-able Code	Product Performance			Applicable machine models
			Rated flow L/min	Initial resistance kPa	Filtering accuracy	
1	GLQ009543133	A22210000602	1300	≤10	100um	SPP280/SFY858/JMY200/J59-J102/HBMD40020/CS10023C10
2	GLQ009542742	24002054	630	≤10	100um	ZWY120/ZMD1/YLQ06-50

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)							
			A	B	C	D	E	F	G	H
1	GLQ009543133	A222100000602	864	90	120	70	4-M10	130	130	4-φ11
2	GLQ009542742	24002054	509	90	120	70	4-M10	130	130	4-φ11

Oil return assembly



Performance parameters

Serial Number	STE Code	Replace-able code	Product Performance				Applicable machine models
			Rated flow L/min	Filtration efficiency	Working pressure MPa	Bypass valve opening pressure (MPa)	
1	GLQ009543404	60278219	760	β12 (c) ≥100	1.6	0.4	J21-289 JMH10-29

Main dimensions

Serial Number	STE Code	Replaceable Code	Product dimensions (mm)						
			A	B	C	D	E	F	G
1	GLQ009543404	60278219	φ38	179	10.3	543	70	35.7	4-M12 depth 22

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