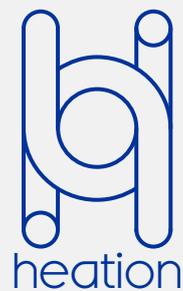
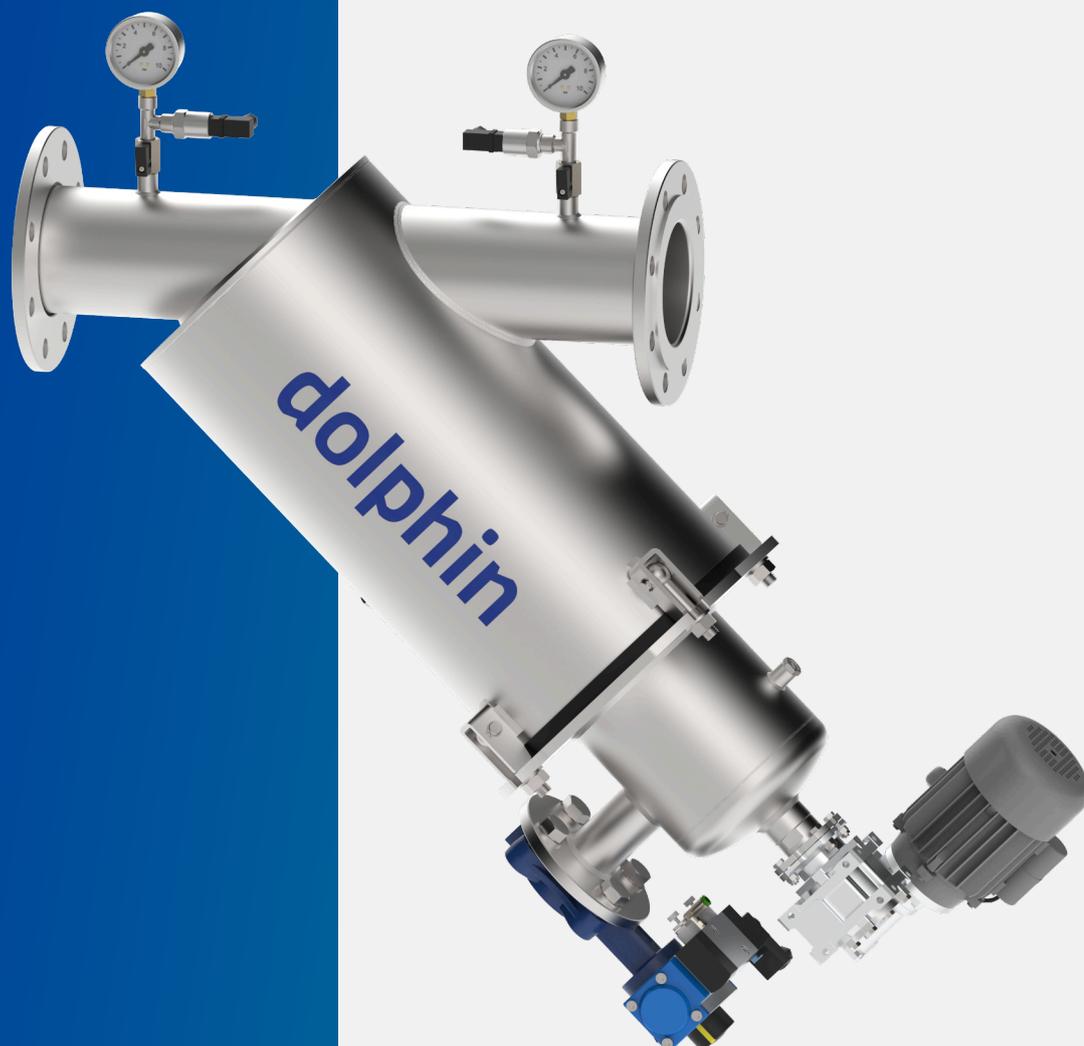


datasheet



dolphin a-swipe



Description

a-swipe filters are automatic filters equipped with a motorized brush cleaning system, enabling the filter cartridge to be cleaned quickly and easily in just a few seconds.

These durable filters require minimal maintenance thanks to their stainless steel construction and nylon brushes.

The cleaning process does not interrupt filtration. a-swipe filters come in three different structural configurations, Y, L, and O to accommodate various installation requirements.

They are ideal for treating water containing suspended solids, including coarse noncolloidal particles, and can be used with water from wells, channels, rivers, and industrial processes.

A variety of FILTERKIT options, available in PES or 2LE versions, offer a filtration range from 3000 μm to 80 μm .

Filtration

The liquid to be treated enters the filter through the inlet connection (IN). Suspended solids are trapped inside the cartridge, and the filtered liquid exits through the outlet connection (OUT).

Cleaning

As solids accumulate inside the filter mesh, a pressure difference develops between the inlet and outlet, monitored by two pressure transmitters and two analog pressure gauges.

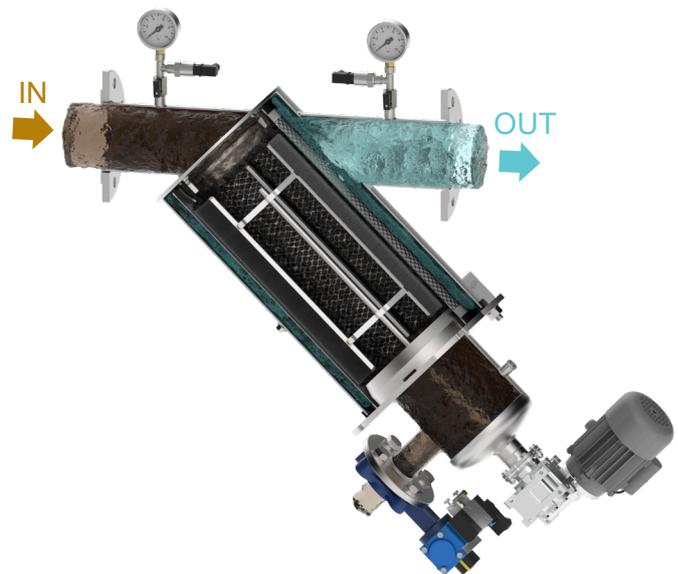
The filter element automatically initiates cleaning when the preset pressure differential is reached or at predetermined intervals.

Both parameters can be managed via the controller.

During the cleaning cycle, the drain valve opens to remove impurities while the brushes rotate.

The rotating brushes clean the filter element by removing accumulated dirt, which is then carried away by the flow to the drain.

Filtration continues uninterrupted as long as the inlet pressure is at least 1.5 bar.



Technical data

Maximum flow rate	550 m ³ /h
Nominal pressure [bar]	PN 10 - PN16 ⁽¹⁾
Maximum temperature	80°C
Construction shape	Y, L, O
Salinity	< 10000 ppm
pH range	3 - 9
Design standard	PED 2014/68/EU

Materials

Housing	AISI 304 - AISI 316
Gaskets	EPDM ⁽²⁾
Drain valve	AISI 316 disc and EPDM liner
Pressure gauges	AISI 304 - AISI 316
Surface finishing	Shot-peening and passivation

Power supply and control

Power supply	230 Vac 50/60 Hz single-phase
Compressed air	6 bar
Electric motor	230 Vac 0.11 kW
Valves	24 Vac electro-pneumatic

Cleaning cycle

	SIZE 6	SIZE 8	SIZE 18	SIZE 30	SIZE 50
Minimum flow rate during cleaning cycle	10 m ³ /h	15 m ³ /h	15 m ³ /h	20 m ³ /h	20 m ³ /h
Minimum pressure during cleaning cycle	1.5 bar				
Water consumption for a complete cycle	55 L	84 L	84 L	110 L	110 L
Duration of cleaning cycle	20-25 sec				

1. On request

2. Certified for contact with drinking water according to the following European regulations: UBA, DVGW standard W-270, WRAS, and ACS.

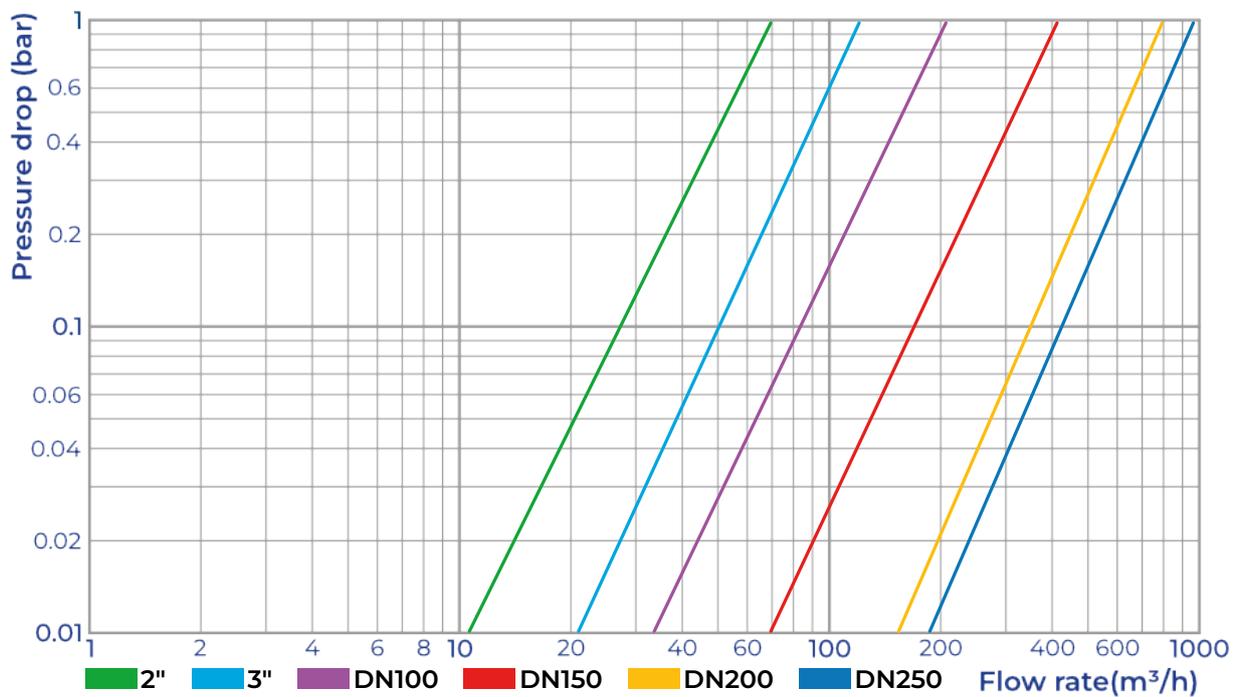
3. Flow rates calculated with a filtration degree of 120µm and clean water (NTU < 1) at a temperature of 20°C

Models and flow rates

Model	Construction shape	Size	In/Out	Max flow rate ⁽³⁾ [m ³ /h]	Filtering surface [cm ²]	
A-SPH 2" S6	Y, L	6	2" BSPP	30	1'500	Threaded
A-SPH 3" S6	Y, L	6	3" BSPP	60	1'500	
A-SPH 3" S8	Y, L	8	3" BSPP	70	1'500	
A-SPH DN50 S6	Y, L	6	DN 50	30	1'500	Flanged
A-SPH DN80 S6	Y, L	6	DN 80	60	1'500	
A-SPH DN100 S6	Y, L	6	DN 100	100	1'500	
A-SPH DN80 S8	Y, L	8	DN 80	70	2'200	
A-SPH DN100 S8	Y, L	8	DN 100	110	2'200	
A-SPH DN100 S18	Y, L	18	DN 100	120	3'300	
A-SPH DN150 S18	Y, L	18	DN 150	240	3'300	
A-SPH DN100 S30	Y, L	30	DN 100	120	5'400	
A-SPH DN150 S30	Y, L	30	DN 150	260	5'400	
A-SPH DN200 S30	L	30	DN 200	400	5'400	
A-SPH DN150 S50	Y, L, O	50	DN150	260	7'400	
A-SPH DN200 S50	Y, L, O	50	DN 200	450	7'400	
A-SPH DN250 S50	L, O	50	DN 250	550	7'400	

1. On request
 2. Certified for contact with drinking water according to the following European regulations : UBA, DVGW standard W-270, WRAS, and ACS.
 3. Flow rates calculated with a filtration degree of 120µm and clean water (NTU < 1) at a temperature of 20°C

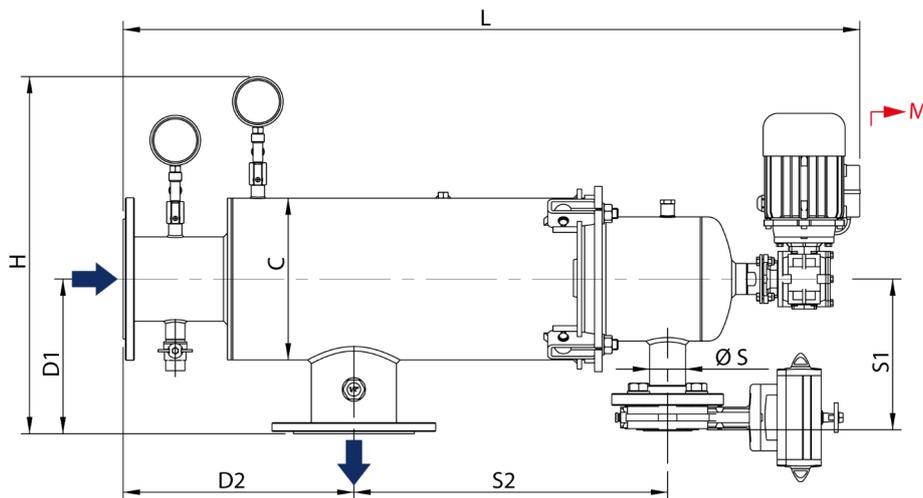
Head loss



Dimensions L Shape

Model	D1 [mm]	D2 [mm]	L [mm]	H [mm]	C [mm]	S1 [mm]	S2 [mm]	Ø S	M* [mm]	Weight [Kg]
A-SPH 2" L 6	190	310	856	471	219	202	268	DN40	500	31
A-SPH 3" L 6	190	310	856	471	219	202	268	DN40	500	32
A-SPH DN80 L 6	210	310	856	491	219	202	268	DN40	500	36
A-SPH DN100 L 6	210	310	856	491	219	202	268	DN40	500	37
A-SPH 3" L 8	190	310	1010	471	219	202	422	DN40	700	35
A-SPH DN80 L 8	210	310	1010	491	219	202	422	DN40	700	39
A-SPH DN100 L 8	210	310	1010	491	219	202	422	DN40	700	40
A-SPH DN100 L 18	246	350	1063	555	273	202	422	DN40	700	48
A-SPH DN150 L 18	246	350	1063	555	273	202	422	DN40	700	52
A-SPH DN100 L 30	246	350	1369	550	273	212	728	DN50	1000	57
A-SPH DN150 L 30	246	350	1369	555	273	212	728	DN50	1000	61
A-SPH DN200 L 30	266	350	1369	575	273	212	728	DN50	1000	67
A-SPH DN150 L 50	292	354	1460	630	323	252	834	DN50	1000	91
A-SPH DN200 L 50	302	354	1460	640	323	252	834	DN50	1000	96
A-SPH DN250 L 50	302	484	1460	640	323	252	704	DN50	1000	101

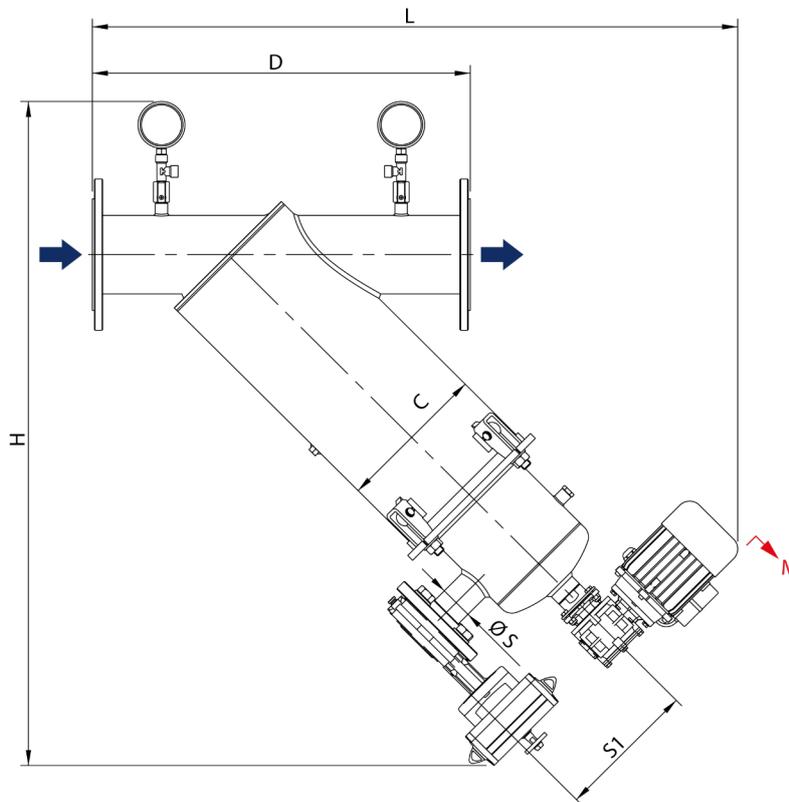
* M = minimum space required for maintenance



Y Shape

Model	D [mm]	L [mm]	H [mm]	C [mm]	S1 [mm]	Ø S	M* [mm]	Weight [Kg]
A-SPH 2" Y 6	412	757	795	219	202	DN40	500	31
A-SPH 3" Y 6	464	783	810	219	202	DN40	500	32
A-SPH DN80 Y 6	487	782	810	219	202	DN40	500	36
A-SPH DN100 Y 6	547	824	822	219	202	DN40	500	37
A-SPH 3" Y 8	464	892	918	219	202	DN40	700	35
A-SPH DN80 Y 8	487	891	918	219	202	DN40	700	36
A-SPH DN100 Y 8	547	933	931	219	202	DN40	700	41
A-SPH DN100 Y 18	585	934	932	273	202	DN40	700	47
A-SPH DN150 Y 18	661	957	959	273	202	DN40	700	53
A-SPH DN100 Y 30	585	1150	1176	273	212	DN50	1000	57
A-SPH DN150 Y 30	661	1173	1203	273	212	DN50	1000	63
A-SPH DN150 Y 50	702	1270	1302	324	253	DN50	1000	92
A-SPH DN200 Y 50	941	1516	1431	324	253	DN50	1000	106

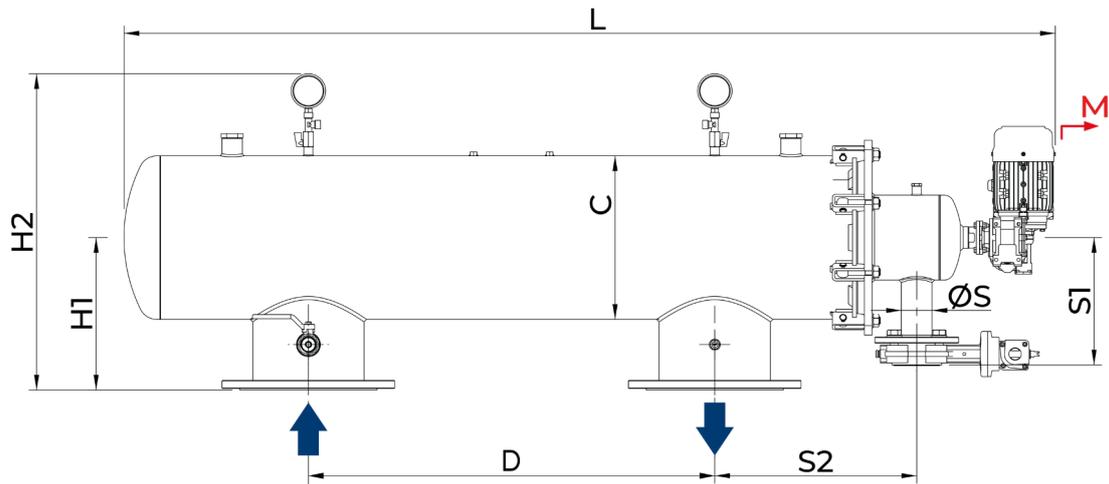
* M = minimum space required for maintenance



O shape

Model	D [mm]	L [mm]	H1 [mm]	H2 [mm]	C [mm]	S1 [mm]	S2 [mm]	ØS	M* [mm]	Weight [Kg]
A-SPH DN150 O 50	800	1833	292	624	323	253	398	DN50	1000	103
A-SPH DN200 O 50	800	1833	302	634	323	252	398	DN50	1000	108
A-SPH DN250 O 50	800	1833	302	634	323	252	398	DN50	1000	114

* M = minimum space required for maintenance



Filtering elements

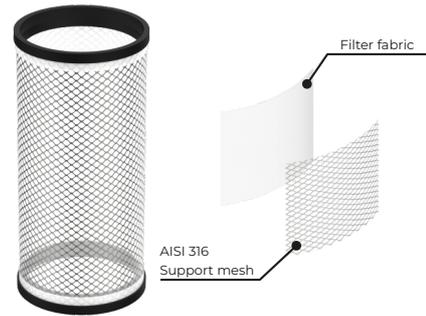
PES filter kit

This filter cartridge consists of a stainless steel AISI 316 mesh cylinder supporting a layer of polyester (PES) filter fabric.

This design offers a wide range of filtration grades and easy maintenance.

Available filtration degrees:

700 - 500* - 400 - 200 - 120 - 80 - 53 - 25 microns



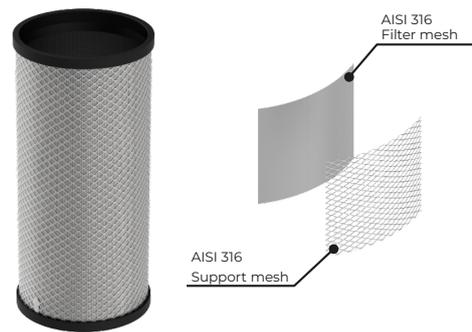
2LE filter kit

This filter cartridge is made entirely of AISI 316 stainless steel, consisting of a filter mesh welded to an outer support.

This filtering element provides greater resistance compared to polyester and is recommended for more challenging operating conditions, such as the presence of abrasive suspended solids, aggressive chemicals, or high temperatures.

Available filtration degrees:

400* - 200* - 110 - 40 micron

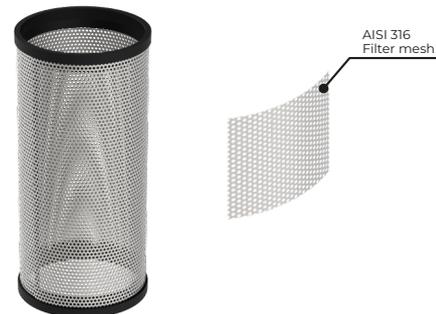


1LE filter kit

Made entirely of AISI 316 perforated stainless steel, this single-layer filter element offers exceptional resistance to the most challenging operating conditions, including extremely low or high temperatures, abrasive materials, and exposure to chemicals.

Available filtration degrees:

3000 - 2000* - 1000* micron



* On request

Configurations/Availability

Filtration degree [µm]	PES filter kit	2LE filter kit	1LE filter kit
25	✓	X	X
40	X	✓ (only available for size 1 and 6)	X
53	✓	X	X
80	✓	X	X
110	X	✓	X
120	✓	X	X
200	✓	✓ (not available for size 1)	X
400	✓	X	X
580	✓	X	X
810	✓	X	X
1000	X	X	✓
2000	X	X	✓
3000	X	X	✓

Accessories

Automation Unit

Filter's automation system consists of:

Electronic controller 4EV 230Vac

Pneumatic drain valve

Pressure transmitters

Namur solenoid valve

Requires compressed air

Threaded Pneumatic Ball Valve

When installed on the filter's outlet, this product can effectively enhance the cleaning performance even under harsh operating conditions.

It is compatible with models that have BSP threaded connections.

Material AISI 316

Nominal pressure PN10-PN16

Max temperature 180°

Power supply 24 Vac

Requires compressed air 6 bar

Namur Solenoid Valve included

Flanged Pneumatic butterfly valve

When installed on the filter's outlet, this product can effectively enhance the cleaning performance even under harsh operating conditions.

It is compatible with models that have flanged connections.

Valve body Ductile iron

Disc AISI 316

Liner EPDM

Power supply 230 Vac

Requires compressed air 6bar

Namur solenoid valve included

Spare Parts

Description	Material	Compatibility
Body gasket Ø219.1	EPDM	Size 6 - Size 8
Filterkit - Gasket Kit Ø145, (2pcs)	EPDM	Size 6 - Size 8
Body gasket Ø273	EPDM	Size 18 - Size 30
Filterkit - Gasket Kit Ø218, (2pcs)	EPDM	Size 18 - Size 30
Pressure gauge 0-10 bar G1/4" Ø63	AISI 304	All models
Pressure gauge 0-10 bar G1/4" Ø63	AISI 316	All models
Brush kit (3pcs)	Nylon	Size 6,8, 18, 30



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