



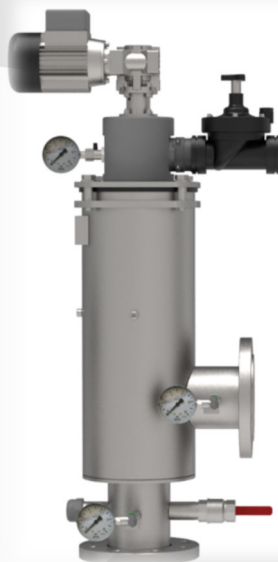
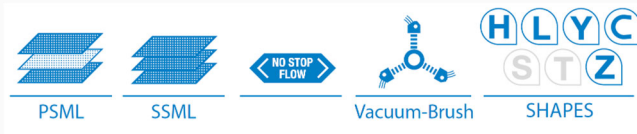
AVB filters

Brochure

alfawater™

Solid ideas made in steel

AVB filters



The automatic self-cleaning filter with high efficiency due to the continuous filtration process and the low cleaning water consumption.

- Multi-layers screens with several filtration degrees
- No interruption flow during the cleaning cycle
- Minimum cleaning water consumption
- Very reliable and efficient cleaning mechanism with suction scanner with brush

AVB filters are automatic filters with suction scanning with brush self-cleaning mechanism, driven by an electric motor. This technology ensure excellent cleaning even with reduced pressure at the filter inlet, thanks to flexible mechanism of scanner, ensuring adherence to the screen, this filter has high cleaning efficiency.

AVB filters can support flow rates of up to 1400 m³/h (6164 US gpm) with seven sizes of screens up to 19800 cm², with several multi-layers screens covering the range of filtration degree between 2000 and 10 µm and with different range of inlet/outlet flanged connections between 2" and 16".

Standard controller:

- AWC Basic controller (differential pressure and/or preset time and/or manual start, IP56, 4DI, 2AI, 4DO, Graphic Display 1x24 digit)

Available 2 controller:

- AWC FULL controller
- AWP FULL controller

Filtro automatico autopulente ad alta efficienza che garantisce la continuità di flusso e ridotti consumi d'acqua in fase di pulizia.

- Reti multistrato con ampio range di filtrazione
- Continuità di flusso durante il ciclo di pulizia
- Minimo consumo d'acqua di pulizia
- Meccanismo di pulizia molto semplice e affidabile con "suction scanner" con spazzole

I filtri Alfa Water AVB sono filtri automatici dotati di meccanismo autopulente "suction scanning" con spazzole, messo in rotazione da un motore elettrico. questa tecnologia assicura un'ottima pulizia anche con pressioni ridotte in ingresso al filtro, grazie al meccanismo di scanner flessibile, che assicura aderenza alla cartuccia filtrante, questo filtro ha un'elevata efficienza di pulizia.

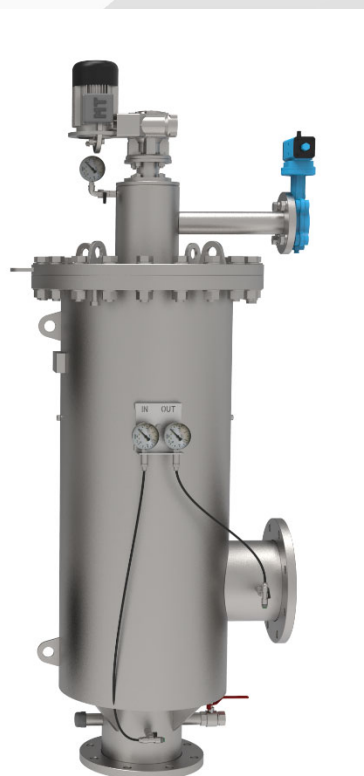
I filtri AVB possono trattare una portata fino a 1400 m³/h (6164 US gpm) con sette taglie di cartucce con area filtrante fino a 19800 cm², con molteplici cartucce multistrato con range di filtrazione compreso tra 2000 e 10 µm e con connessioni flangiate in ingresso e in uscita comprese tra 2" e 16".

Controller standard:

- AWC Basic controller (differenza di pressione e/o tempi pre-impostabili e/o avvio manuale, IP56, 4DI, 2AI, 4DO, Display grafico 1x24 digit)

Disponibili 2 controller:

- AWC FULL controller
- AWP FULL controller



PATENT PENDING

TECHNICAL DATA - DATI TECNICI

Filter size - Taglia filtro	16	23	35	55
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General data - Dati generali

Inlet/outlet diameter <i>Diametro connessioni IN/OUT</i>	2" / 3" / 4" flanged EN 1092-1	2" / 3" / 4" / 6" flanged EN 1092-1	2" / 3" / 4" / 6" / 8" flanged EN 1092-1	3" / 4" / 6" / 8" flanged EN 1092-1
Max flow rate * <i>Portata massima</i>	100 m³/h 440 US gpm	180 m³/h 793 US gpm	270 m³/h 1188 US gpm	390 m³/h 1717 US gpm
Min working pressure <i>Pressione minima</i>	2 bar - during cleaning cycle 29 psi			
Max working pressure <i>Pressione massima</i>	10 bar 145 psi			
Max working temperature <i>Temperatura massima</i>	60 °C 140 °F			

* Flow rates are referred to 100µm filter screen, water with NTU < 1 and temperature of 20°C
Portate riferite a filtri con rete filtrante da 100µm, acqua con NTU < 1 e temperatura di 20°C

Screen elements - Elementi filtranti

Screen Area <i>Area filtrante</i>	1.600 cm² 248 in²	2.300 cm² 357 in²	3.500 cm² 543 in²	5.500 cm² 853 in²
Filtration degrees <i>Gradi di filtrazione</i>	1000 / 800 / 500 / 400 / 200 / 100 / 50 / 25 / 10 µm			
Screen types <i>Tipologia elementi filtranti</i>	Screens: Stainless Steel AISI 316 or Multi-layers SS AISI316 + PETP (Polyester) Reti: Acciaio inox AISI 316 oppure multistrato Inox AISI316 + Poliestere PETP			

Cleaning Cycle - Ciclo di pulizia

Cleaning device <i>Sistema di pulizia</i>	Flexible Suction PADS - PVC material – with BRUSH Pattini aspiranti flessibili – PVC – con SPAZZOLE			
Cleaning cycle time <i>Durata ciclo di pulizia</i>	6 sec		12 sec	
Min cleaning flow rate (at 2.5 bar) <i>Portata minima di pulizia</i>	6 m³/h 26 US gpm	9 m³/h 39 US gpm		15 m³/h 66 US gpm
Drained water for cleaning <i>Acqua di pulizia scaricata</i>	10 L	15 L	30 L	50 L
Drain valve <i>Valvola di scarico</i>	1"½ F threaded			
Cleaning criteria <i>Avvio ciclo di pulizia</i>	Differential pressure (0.6 bar), time intervals and manual operation Pressione differenziale (0.6 bar), intervalli di tempo, manualmente			

Electrical data - Dati elettrici

Supply voltage <i>Tensione di alimentazione</i>	230 Vac 1-phase 50/60 Hz Optional: 400 Vac 3-phases 50/60 Hz
Control voltage <i>Voltaggio di comando</i>	24 Vdc
Electric motor power <i>Potenza elettrica motore</i>	110 W
Electric motor consumption <i>Consumo motore elettrico</i>	2,8 A

Filter size - Taglia filtro	72	81	110	198
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General data - Dati generali

Inlet/outlet diameter <i>Diametro connessioni IN/OUT</i>	6" / 8" flanged EN 1092-1	6" / 8" / 10" flanged EN 1092-1	8" / 10" / 12" flanged EN 1092-1	10" / 12" / 16" flanged EN 1092-1
Max flow rate <i>Portata massima</i>	450 m³/h 1981 US gpm	600 m³/h 2642 US gpm	800 m³/h 3522 US gpm	1400 m³/h 6164 US gpm
Min working pressure <i>Pressione minima</i>	2 bar - during cleaning cycle 29 psi			
Max working pressure <i>Pressione massima</i>	10 bar 145 psi			
Max working temperature <i>Temperatura massima</i>	60 °C 140 °F			

* Flow rates are referred to 100µm filter screen, water with NTU < 1 and temperature of 20°C

Portate riferite a filtri con rete filtrante da 100µm, acqua con NTU < 1 e temperatura di 20°C

Screen elements - Elementi filtranti

Screen Area <i>Area filtrante</i>	7.200 cm² 1116 in²	8.100 cm² 1256 in²	11.000 cm² 1705 in²	19.800 cm² 3069 in²
Filtration degrees <i>Gradi di filtrazione</i>	1000 / 800 / 500 / 400 / 200 / 100 / 50 / 25 / 10 µm			
Screen types <i>Tipologia elementi filtranti</i>	Screens: Stainless Steel AISI 316 or Multi-layers SS AISI316 + PETP (Polyester) Reti: Acciaio inox AISI 316 oppure multistrato Inox AISI316 + Poliestere PETP			

Cleaning Cycle - Ciclo di pulizia

Cleaning device <i>Sistema di pulizia</i>	Flexible Suction PADS - PVC material – with BRUSH Pattini aspiranti flessibili – PVC – con SPAZZOLE			
Cleaning cycle time <i>Durata ciclo di pulizia</i>	20 sec	15 sec		
Min cleaning flow rate (at 2.5 bar) <i>Portata minima di pulizia</i>	30 m³/h 132 US gpm	20 m³/h 88 US gpm	30 m³/h 132 US gpm	40 m³/h 176 US gpm
Drained water for cleaning <i>Acqua di pulizia scaricata</i>	160 L	80 L	120 L	160 L
Drain valve <i>Valvola di scarico</i>	2" flanged EN 1092-1			
Cleaning criteria <i>Avvio ciclo di pulizia</i>	Differential pressure (0.6 bar), time intervals and manual operation Pressione differenziale (0.6 bar), intervalli di tempo, manualmente			

Electrical data - Dati elettrici

Supply voltage <i>Tensione di alimentazione</i>	230 Vac 1-phase 50/60 Hz Optional: 400 Vac 3-phases 50/60 Hz
Control voltage <i>Voltaggio di comando</i>	24 Vdc
Electric motor power <i>Potenza elettrica motore</i>	210 W
Electric motor consumption <i>Consumo motore elettrico</i>	2,8 A

Filter size - Taglia filtro	115	160
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General data - Dati generali

Inlet/outlet diameter <i>Diametro connessioni IN/OUT</i>	6" / 8" / 10" / 12" flanged EN 1092-1	6" / 8" / 10" / 12" flanged EN 1092-1
Max flow rate <i>Portata massima</i>	650 m ³ /h 2862 US gpm	900 m ³ /h 3962 US gpm
Min working pressure <i>Pressione minima</i>	2 bar - during cleaning cycle 29 psi	
Max working pressure <i>Pressione massima</i>	10 bar 145 psi	
Max working temperature <i>Temperatura massima</i>	60 °C 140 °F	

* Flow rates are referred to 100µm filter screen, water with NTU < 1 and temperature of 20°C

Portate riferite a filtri con rete filtrante da 100µm, acqua con NTU < 1 e temperatura di 20°C

Screen elements - Elementi filtranti

Screen Area <i>Area filtrante</i>	11.500 cm ² 1783 in ²	16.000 cm ² 2480 in ²
Filtration degrees <i>Gradi di filtrazione</i>	1000 / 800 / 500 / 400 / 200 / 100 / 50 / 25 / 10 µm	
Screen types <i>Tipologia elementi filtranti</i>	Screens: Stainless Steel AISI 316 or Multi-layers SS AISI316 + PETP (Polyester) Reti: Acciaio inox AISI 316 oppure multistrato Inox AISI316 + Poliestere PETP	

Cleaning Cycle - Ciclo di pulizia

Cleaning device <i>Sistema di pulizia</i>	Flexible Suction PADS - PVC material – with BRUSH Pattini aspiranti flessibili – PVC – con SPAZZOLE	
Cleaning cycle time <i>Durata ciclo di pulizia</i>	30 sec	
Min cleaning flow rate (at 2.5 bar) <i>Portata minima di pulizia</i>	20 m ³ /h 88 US gpm	30 m ³ /h 132 US gpm
Drained water for cleaning <i>Acqua di pulizia scaricata</i>	160L	240L
Drain valve <i>Valvola di scarico</i>	2" flanged EN 1092-1	
Cleaning criteria <i>Avvio ciclo di pulizia</i>	Differential pressure (0.6 bar), time intervals and manual operation Pressione differenziale (0.6 bar), intervalli di tempo, manualmente	

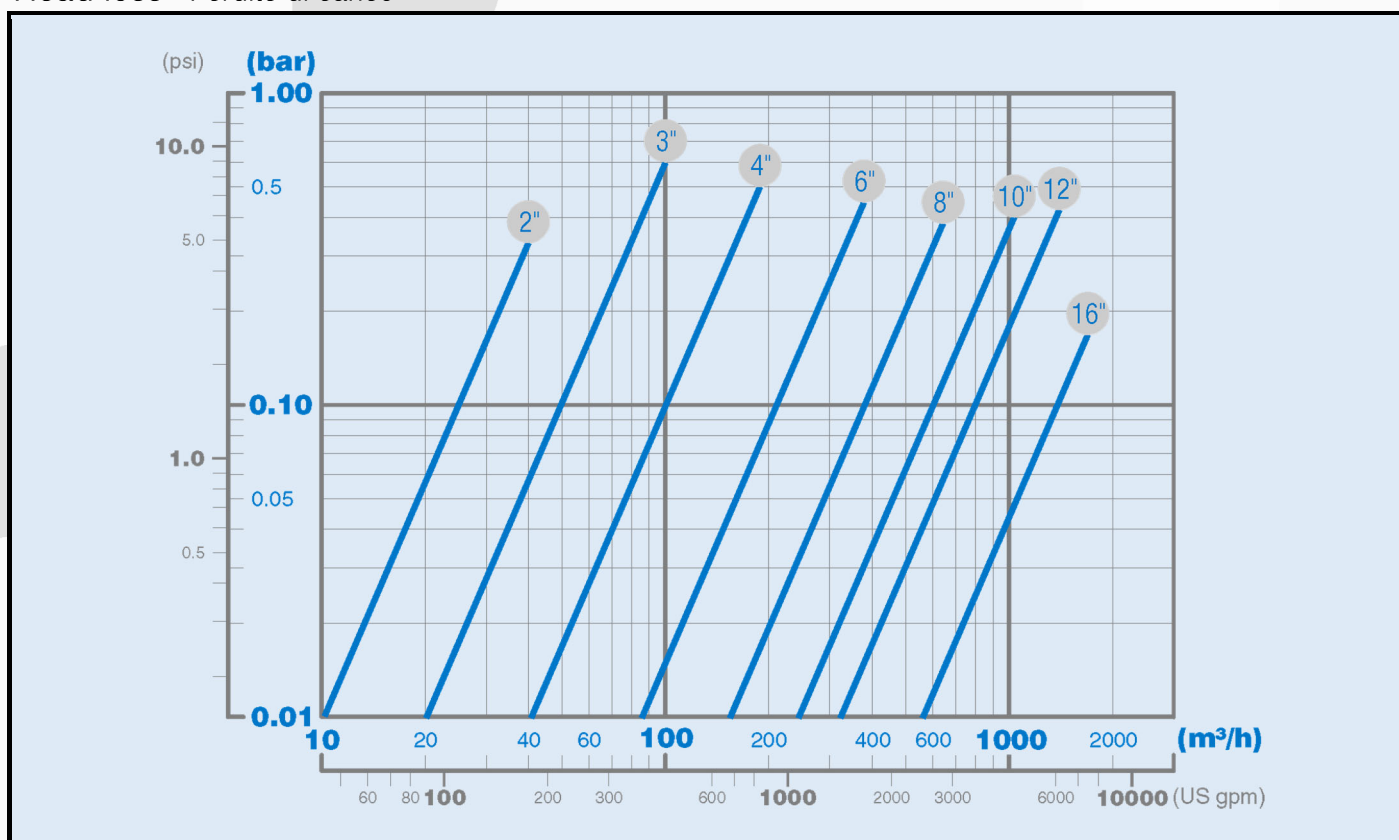
Electrical data - Dati elettrici

Supply voltage <i>Tensione di alimentazione</i>	230 Vac 1-phase 50/60 Hz Optional: 400 Vac 3-phases 50/60 Hz
Control voltage <i>Voltaggio di comando</i>	24 Vdc
Electric motor power <i>Potenza elettrica motore</i>	210 W
Electric motor consumption <i>Consumo motore elettrico</i>	2,8 A

Materials - Materiali

Filter Body <i>Corpo filtro</i>	AISI 304 / AISI 316 / SAF 2205 / 254 SMO
Cover <i>Coperchio</i>	AISI 304 / AISI 316 / SAF 2205 / 254 SMO
Screen support <i>Supporto rete</i>	AISI 316 / SAF 2205
Gasket <i>Guarnizioni</i>	EPDM - NBR

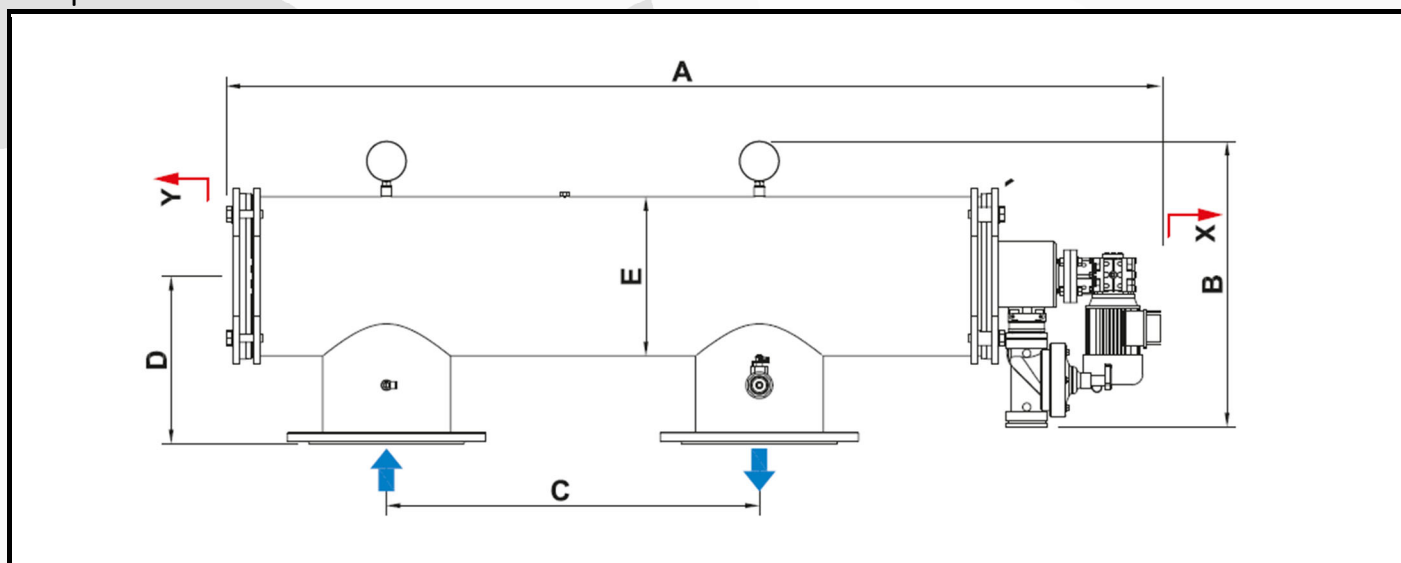
Head loss - Perdite di carico*



* Head loss are referred to filtrating screen 100 µm, water with NTU<1 and temperature of 20°C
 Perdite di carico riferita a filtri con rete filtrante da 100 µm, acqua con NTU<1 e temperatura di 20°C

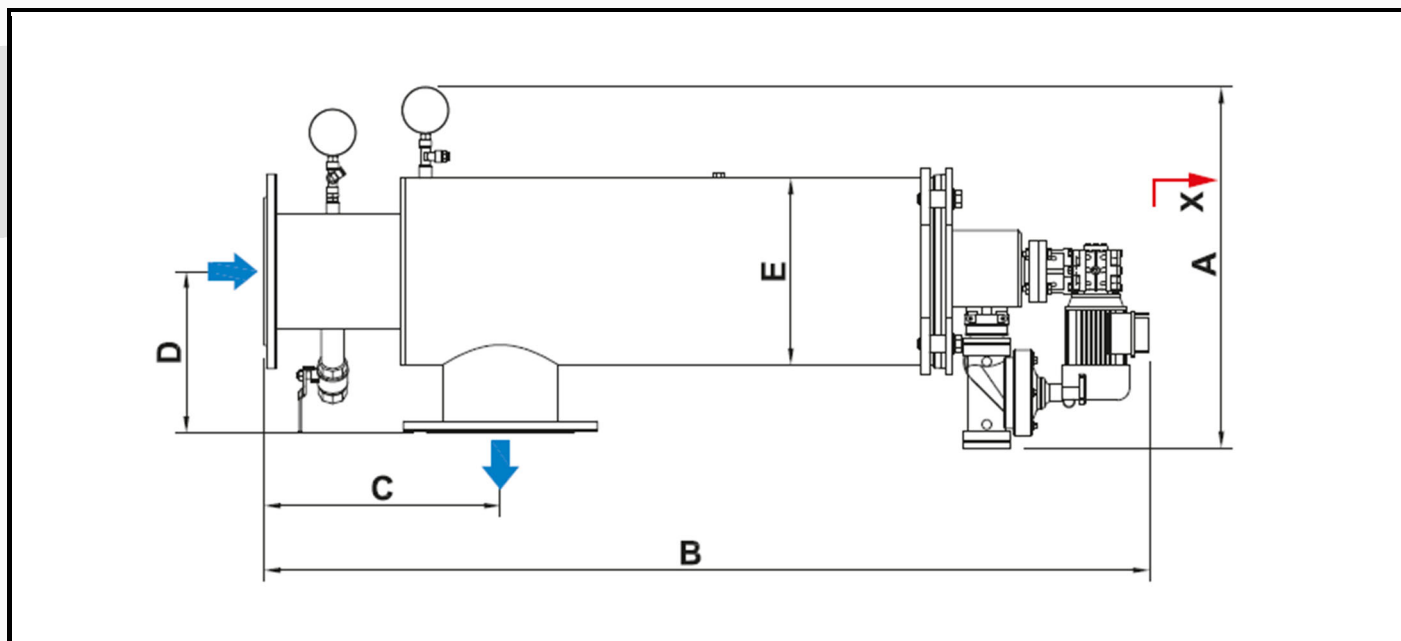
DIMENSIONS - DIMENSIONI

Shape H - Forma H



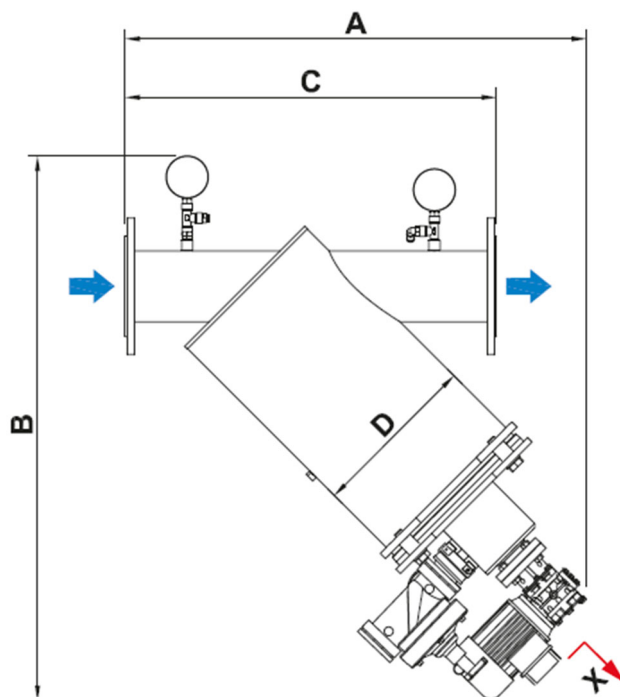
Filter Model <i>Modello filtro</i>	In/Out Conn.	Drain Conn.	Filter Area [cm ²]	Max Flow rate [m ³ /h]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	X [mm]	Y [mm]	Weight [Kg]
AVB 16H2	2" flg	1½ thrdF	1600	30	1225	540	450	210	206	400	600	46
AVB 16H3	3" flg	1½ thrdF	1600	60	1225	540	450	210	206	400	600	48
AVB 16H4	4" flg	1½ thrdF	1600	100	1225	540	450	210	206	400	600	52
AVB 23H2	2" flg	1½ thrdF	2300	30	1225	540	450	210	206	600	400	44
AVB 23H3	3" flg	1½ thrdF	2300	60	1225	540	450	210	206	600	400	45
AVB 23H4	4" flg	1½ thrdF	2300	100	1225	540	450	210	206	600	400	48
AVB 23H6	6" flg	1½ thrdF	2300	180	1225	540	450	210	206	600	400	52
AVB 35H2	2" flg	1½ thrdF	3500	30	1715	595	640	280	273	600	900	75
AVB 35H3	3" flg	1½ thrdF	3500	60	1715	595	640	280	273	600	900	80
AVB 35H4	4" flg	1½ thrdF	3500	100	1715	595	640	280	273	600	900	86
AVB 35H6	6" flg	1½ thrdF	3500	220	1715	595	640	280	273	600	900	92
AVB 35H8	8" flg	1½ thrdF	3500	270	1715	595	640	280	273	600	900	97
AVB 55H3	3" flg	1½ thrdF	5500	60	1715	595	640	280	273	600	600	80
AVB 55H4	4" flg	1½ thrdF	5500	100	1715	595	640	280	273	900	600	86
AVB 55H6	6" flg	1½ thrdF	5500	220	1715	595	640	280	273	900	600	92
AVB 55H8	8" flg	1½ thrdF	5500	390	1715	595	640	280	273	900	600	97

Shape L - Forma L



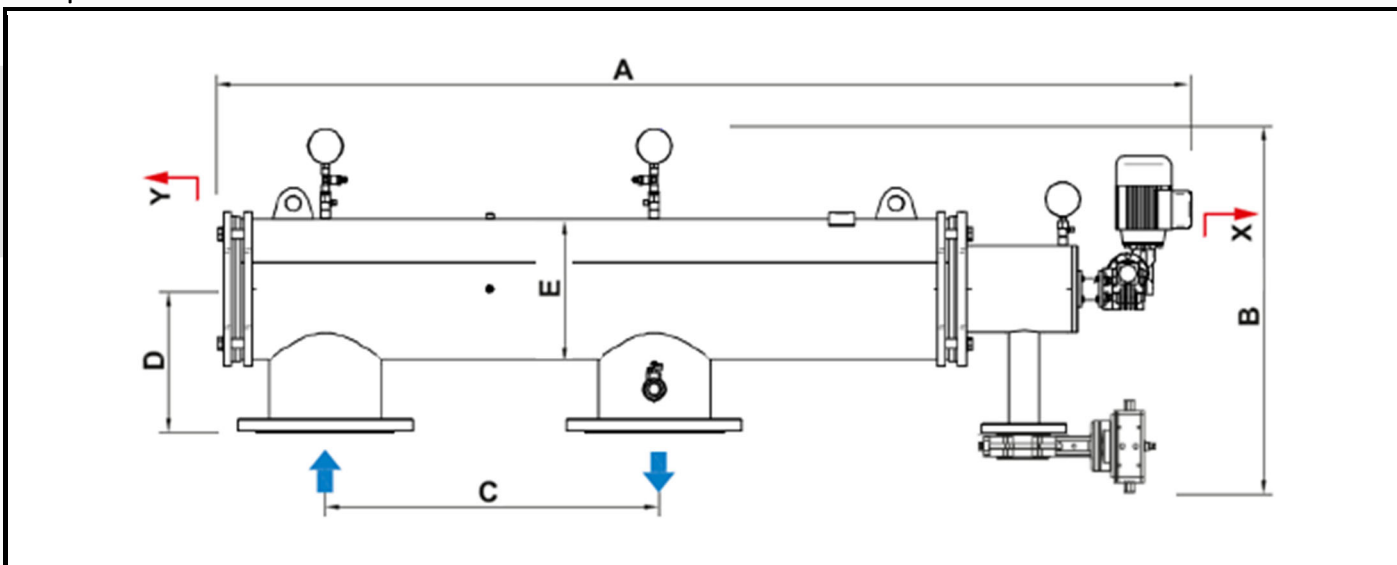
Filter Model <i>Modello filtro</i>	In/Out Conn.	Drain Conn.	Filter Area [cm ²]	Max Flow rate [m ³ /h]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	X [mm]	Weight [Kg]
AVB 16L2	2" flg	1"½ thrdF	1600	30	490	830	295	210	206	400	33
AVB 16L3	3" flg	1"½ thrdF	1600	60	490	830	295	210	206	400	35
AVB 16L4	4" flg	1"½ thrdF	1600	100	490	830	295	210	206	400	37
AVB 23L2	2" flg	1"½ thrdF	2300	30	490	1000	295	210	206	600	37
AVB 23L3	3" flg	1"½ thrdF	2300	60	490	1000	295	210	206	600	40
AVB 23L4	4" flg	1"½ thrdF	2300	100	490	1000	295	210	206	600	41
AVB 23L6	6" flg	1"½ thrdF	2300	180	490	1000	295	210	206	600	48
AVB 35L2	2" flg	1"½ thrdF	3500	30	540	1080	345	280	273	600	48
AVB 35L3	3" flg	1"½ thrdF	3500	60	540	1080	345	280	273	600	51
AVB 35L4	4" flg	1"½ thrdF	3500	100	540	1080	345	280	273	600	53
AVB 35L6	6" flg	1"½ thrdF	3500	220	540	1080	345	280	273	600	59
AVB 35L8	8" flg	1"½ thrdF	3500	270	540	1080	345	280	273	600	64
AVB 55L3	3" flg	1"½ thrdF	5500	60	540	1370	345	280	273	900	61
AVB 55L4	4" flg	1"½ thrdF	5500	100	540	1370	345	280	273	900	63
AVB 55L6	6" flg	1"½ thrdF	5500	220	540	1370	345	280	273	900	69
AVB 55L8	8" flg	1"½ thrdF	5500	390	540	1370	345	280	273	900	74

Shape Y - Forma Y



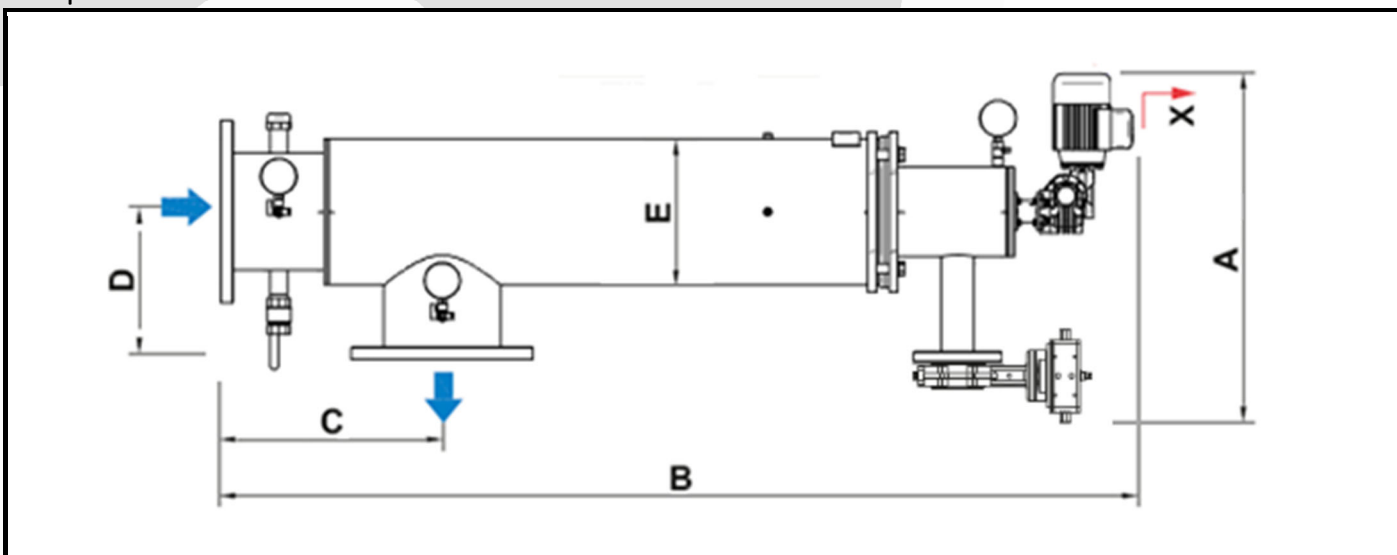
Filter Model <i>Modello filtro</i>	In/Out Conn.	Drain Conn.	Filter Area [cm ²]	Max Flow rate [m ³ /h]	A [mm]	B [mm]	C [mm]	D [mm]	X [mm]	Weight [Kg]
AVB 16Y2	2" flg	1"½ thrdF	1600	30	731	715	395	206	400	32
AVB 16Y3	3" flg	1"½ thrdF	1600	60	760	755	450	206	400	35
AVB 16Y4	4" flg	1"½ thrdF	1600	100	810	770	550	206	400	38
AVB 23Y3	3" flg	1"½ thrdF	2300	60	880	880	450	206	600	40
AVB 23Y4	4" flg	1"½ thrdF	2300	100	930	890	550	206	600	42
AVB 35Y4	4" flg	1"½ thrdF	3500	100	970	890	600	273	600	53
AVB 35Y6	6" flg	1"½ thrdF	3500	220	1045	940	745	273	600	60
AVB 55Y4	4" flg	1"½ thrdF	5500	100	1180	1095	600	273	900	62
AVB 55Y6	6" flg	1"½ thrdF	5500	220	1250	1120	745	273	900	71

Shape H - Forma H



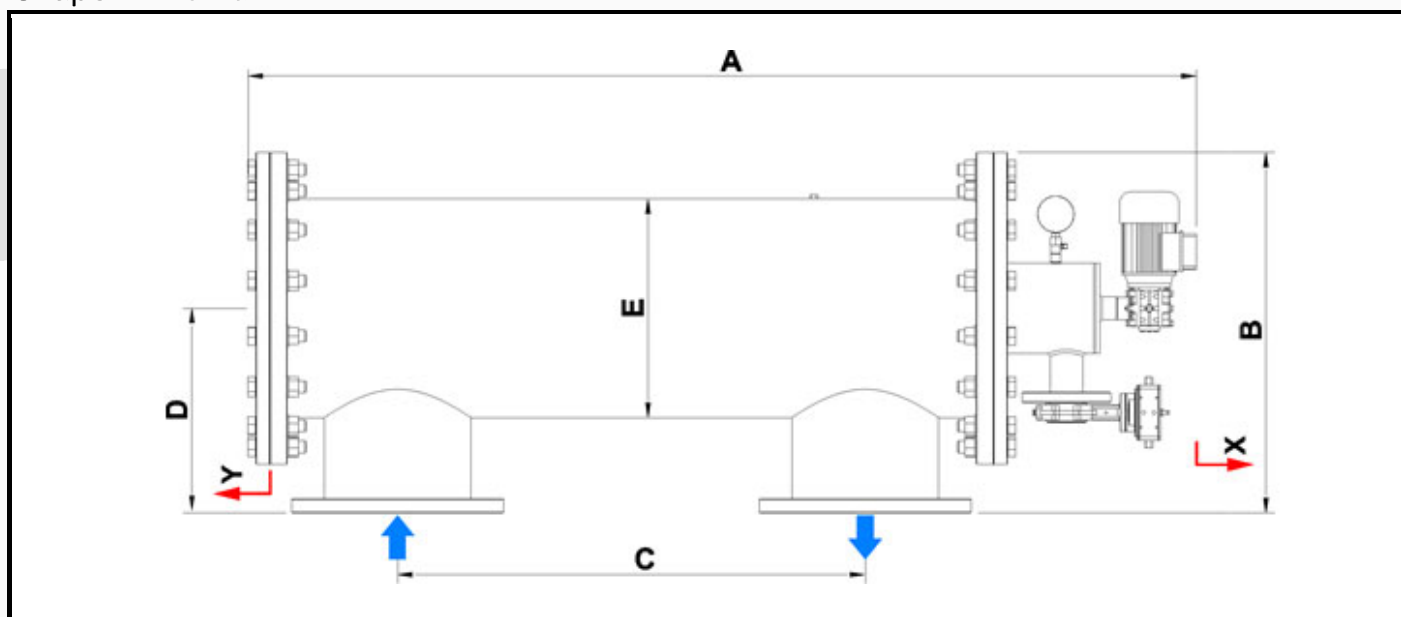
Filter Model <i>Modello filtro</i>	In/Out Conn.	Drain Conn.	Filter Area [cm ²]	Max Flow rate [m ³ /h]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	X [mm]	Y [mm]	Weight [Kg]
AVB 72H6	6" flg	2" flg	7200	220	1900	720	640	280	273	1100	400	110
AVB 72H8	8" flg	2" flg	7200	450	1900	720	640	280	273	1100	400	115

Shape L - Forma L



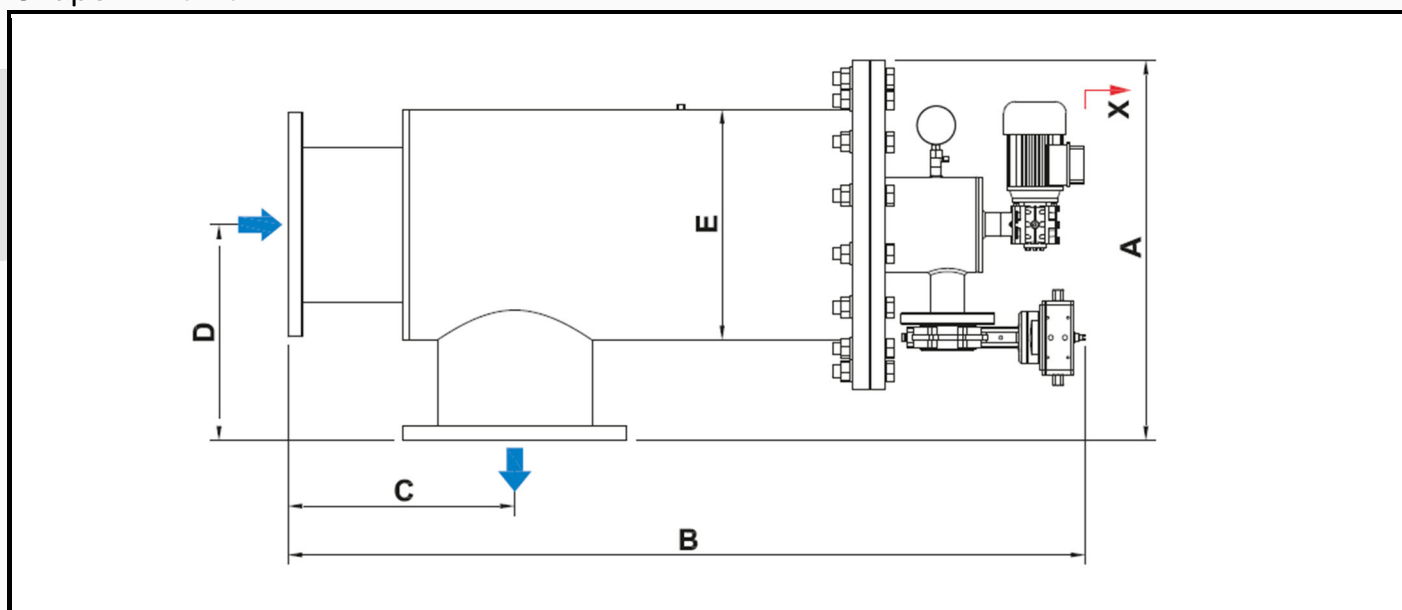
Filter Model <i>Modello filtro</i>	In/Out Conn.	Drain Conn.	Filter Area [cm ²]	Max Flow rate [m ³ /h]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	X [mm]	Weight [Kg]
AVB 72L6	6" flg	2" flg	7200	220	670	1715	420	280	273	1100	90
AVB 72L8	8" flg	2" flg	7200	450	670	1715	420	280	273	1100	96

Shape H - Forma H



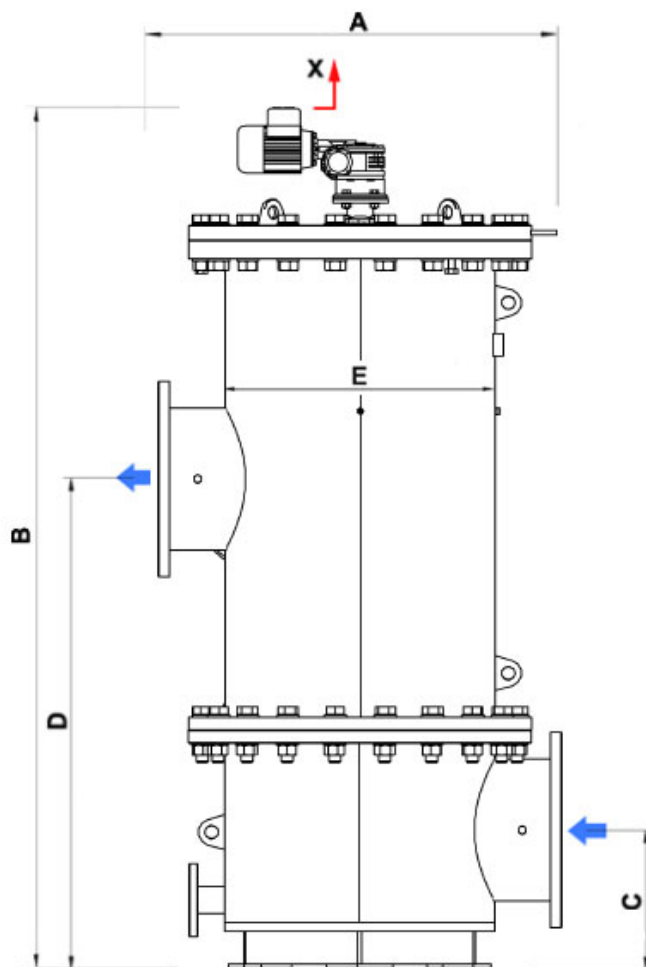
Filter Model <i>Modello filtro</i>	In/Out Conn.	Drain Conn.	Filter Area [cm ²]	Max Flow rate [m ³ /h]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	X [mm]	Y [mm]	Weight [Kg]
AVB 81H6	6" flg	2" flg	8100	220	1890	780	800	350	406	900	600	310
AVB 81H8	8" flg	2" flg	8100	390	1890	780	800	350	406	900	600	315
AVB 81H10	10" flg	2" flg	8100	600	1890	780	800	350	406	900	600	318
AVB 110H8	8" flg	2" flg	11000	390	2220	875	800	380	457	1200	600	381
AVB 110H10	10" flg	2" flg	11000	600	2220	875	800	380	457	1200	600	384
AVB 110H12	12" flg	2" flg	11000	800	2220	875	800	380	457	1200	600	395
AVB 198H10	10" flg	2" flg	19800	600	2450	850	1200	460	610	1500	600	545
AVB 198H12	12" flg	2" flg	19800	800	2450	850	1200	460	610	1500	600	550
AVB 198H16	16" flg	2" flg	19800	1400	2450	850	1200	460	610	1500	600	585

Shape L - Forma L



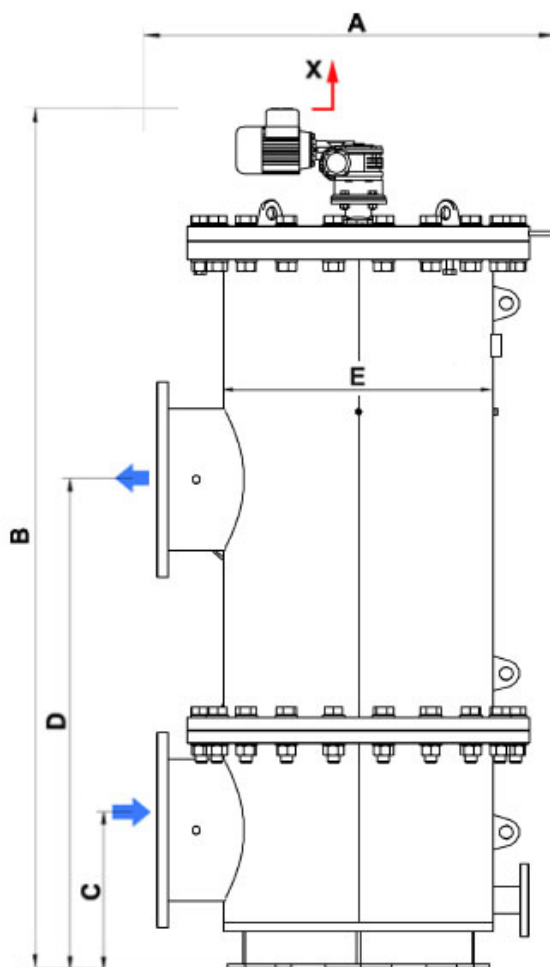
Filter Model <i>Modello filtro</i>	In/Out Conn.	Drain Conn.	Filter Area [cm ²]	Max Flow rate [m ³ /h]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	X [mm]	Weight [Kg]
AVB 81L6	6" flg	2" flg	8100	220	730	1500	400	320	406	900	196
AVB 81L8	8" flg	2" flg	8100	390	730	1500	400	320	406	900	198
AVB 81L10	10" flg	2" flg	8100	600	730	1500	400	320	406	900	204
AVB 110L8	8" flg	2" flg	11000	390	810	1805	500	380	457	1200	243
AVB 110L10	10" flg	2" flg	11000	600	810	1805	500	380	457	1200	250
AVB 110L12	12" flg	2" flg	11000	800	810	1805	500	380	457	1200	251
AVB 198L10	10" flg	2" flg	19800	600	980	2115	605	460	614	1500	443
AVB 198L12	12" flg	2" flg	19800	800	980	2115	605	460	614	1500	446
AVB 198L16	16" flg	2" flg	19800	1400	980	2115	605	460	614	1500	470

Shape Z - Forma Z



Filter Model <i>Modello filtro</i>	In/Out Conn.	Drain Conn.	Filter Area [cm ²]	Max Flow rate [m ³ /h]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	X [mm]	Weight [Kg]
AVB 115Z6	6" flg	2" flg	11500	220	920	1660	315	1115	614	900	515
AVB 115Z8	8" flg	2" flg	11500	390	920	1660	315	1115	614	900	520
AVB 115Z10	10" flg	2" flg	11500	600	920	1660	315	1115	614	900	525
AVB 115Z12	12" flg	2" flg	11500	650	920	1660	315	1115	614	900	530
AVB 160Z6	6" flg	2" flg	16000	220	920	1960	315	1115	614	1200	555
AVB 160Z8	8" flg	2" flg	16000	390	920	1960	315	1115	614	1200	560
AVB 160Z10	10" flg	2" flg	16000	600	920	1960	315	1115	614	1200	565
AVB 160Z12	12" flg	2" flg	16000	900	920	1960	315	1115	614	1200	570

Shape C - Forma C



Filter Model <i>Modello filtro</i>	In/Out Conn.	Drain Conn.	Filter Area [cm ²]	Max Flow rate [m ³ /h]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	X [mm]	Weight [Kg]
AVB 115C6	6" flg	2" flg	11500	220	908	1660	315	1115	614	900	515
AVB 115C8	8" flg	2" flg	11500	390	908	1660	315	1115	614	900	520
AVB 115C10	10" flg	2" flg	11500	600	908	1660	315	1115	614	900	525
AVB 115C12	12" flg	2" flg	11500	650	908	1660	315	1115	614	900	530
AVB 160C6	6" flg	2" flg	16000	220	908	1960	315	1115	614	1200	555
AVB 160C8	8" flg	2" flg	16000	390	908	1960	315	1115	614	1200	560
AVB 160C10	10" flg	2" flg	16000	600	908	1960	315	1115	614	1200	565
AVB 160C12	12" flg	2" flg	16000	900	908	1960	315	1115	614	1200	570