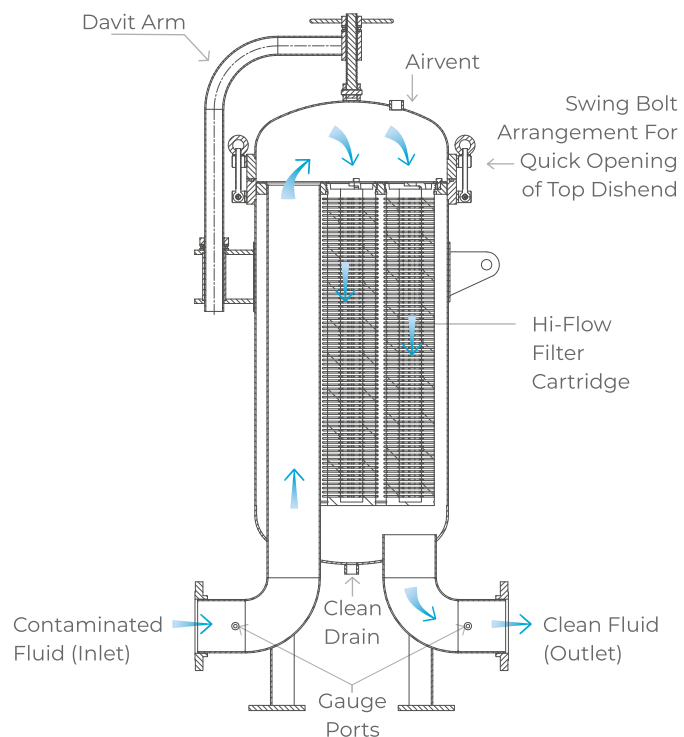


Flowmaster A1 Series

High Flow Filter Housing

The **Flowmaster A1** Series is a vertical high-flow multi-cartridge filter housing engineered in full compliance with ASME Section VIII Div. 1 and PED 2014/68/EU, making it suitable for process systems where pressure-vessel code conformity is mandatory. Designed with an in-to-out filtration configuration, the A1 Series allows contaminants to be retained inside the filter cartridges, keeping the downstream surface of the housing clean and minimizing internal cleaning requirements. Its bottom-in / bottom-out connection layout promotes complete drainability on the inlet side and provides easy, unobstructed access for fast cartridge replacement. Built to deliver high flow rates, extended service life, and safe operation, the Flowmaster A1 Series is a dependable choice for demanding industrial liquid filtration applications.



Features & Benefits

Compliant with ASME Sec. VIII Div. 1 and PED 2014/68/EU:

Ensuring full conformity with international pressure vessel standards and allowing CE marking where applicable.

Vessel design pressure options of 10 bar (145 PSI) and 16 bar (232 PSI):

With higher pressure ratings available on request to meet demanding process conditions.

Standard vessel design temperature of 125 °C (257 °F):

With higher temperature ratings available on request for specialized high-temperature filtration applications.

Wide model range:

Offered in 36 standard configurations suitable for flow rates up to 630 m³/hr, with larger flow capacities available upon request.

Support cage for filter cartridges:

Provides structural stability during operation and prevents vibration or displacement under high flow or pressure conditions.

Cartridge compatibility:

Suitable for standard Ø6" diameter cartridges up to 40" length, offering broad media selection and high filtration efficiency.

Retainer plate design:

Protects filter cartridges from potential backpressure effects and ensures secure seating throughout operation.

Provision for differential pressure monitoring:

With gauge ports across the filter cartridge to monitor cartridge condition and schedule timely replacements.

Applications



Process Water Filtration:

Final polishing of process and utility water to remove fine particulates before reuse or discharge.



Oil & Gas / Petrochemical:

Removal of solid contaminants from fuels, lubricants, amines, glycol, and produced water streams.



Desalination & RO Plants:

Pre-filtration to protect reverse osmosis membranes from fine silt and colloidal impurities.



Chemicals:

Filtration of low-viscosity fluids and solvents to achieve high clarity.



Solar, Microelectronics & Semiconductor Manufacturing:

Fine filtration of ultrapure water.



General Industrial Applications:

Suitable wherever clean downstream conditions, high flow rates, and minimal maintenance are required.



Power Generation:

Polishing of condensate and boiler feed water to protect sensitive downstream equipment.



Pharmaceutical & Biotechnology:

Clarification of bulk intermediates, purified water, and high-purity process streams.

Flowmaster A1 Series - Multi Cartridge Filter Housing

Standard Models for Flowmaster A1

Model No.	No of Filter Cartridges (Ø6"X40"L)	Inlet/Outlet	Typical Flow Rate * M ³ /hr	Typical Flow Rate * USGPM	Housing Volume (Ltr)
Flowmaster A1-02-C04-P	2	80NB(3")	70	308	168
Flowmaster A1-02-C05-U	2	100NB(4")	70	308	172
Flowmaster A1-04-C05-P	4	100NB(4")	140	616	275
Flowmaster A1-04-C06-P	4	125NB(5")	140	616	280
Flowmaster A1-04-C07-U	4	150NB(6")	140	616	346
Flowmaster A1-05-C05-P	5	100NB(4")	175	770	334
Flowmaster A1-05-C06-P	5	125NB(5")	175	770	338
Flowmaster A1-05-C07-P	5	150NB(6")	175	770	418
Flowmaster A1-05-C08-U	5	200NB(8")	175	770	440
Flowmaster A1-06-C06-P	6	125NB(5")	210	924	410
Flowmaster A1-06-C07-P	6	150NB(6")	210	924	418
Flowmaster A1-06-C08-U	6	200NB(8")	210	924	440
Flowmaster A1-07-C06-P	7	125NB(5")	245	1078	483
Flowmaster A1-07-C07-P	7	150NB(6")	245	1078	490
Flowmaster A1-07-C08-U	7	200NB(8")	245	1078	590
Flowmaster A1-08-C07-P	8	150NB(6")	280	1232	573
Flowmaster A1-08-C08-U	8	200NB(8")	280	1232	685
Flowmaster A1-09-C07-P	9	150NB(6")	315	1386	573
Flowmaster A1-09-C08-P	9	200NB(8")	315	1386	685
Flowmaster A1-09-C09-U	9	250NB(10")	315	1386	785
Flowmaster A1-10-C07-P	10	150NB(6")	350	1541	663
Flowmaster A1-10-C08-P	10	200NB(8")	350	1541	783
Flowmaster A1-10-C09-U	10	250NB(10")	350	1541	815
Flowmaster A1-11-C08-P	11	200NB(8")	385	1695	783
Flowmaster A1-11-C09-U	11	250NB(10")	385	1695	924
Flowmaster A1-12-C08-P	12	200NB(8")	420	1849	894
Flowmaster A1-12-C09-U	12	250NB(10")	420	1849	924
Flowmaster A1-13-C08-P	13	200NB(8")	455	2003	894
Flowmaster A1-13-C09-P	13	250NB(10")	455	2003	1055
Flowmaster A1-13-C10-U	13	300NB(12")	455	2003	1101
Flowmaster A1-14-C09-P	14	250NB(10")	490	2157	1055
Flowmaster A1-14-C10-U	14	300NB(12")	490	2157	1228
Flowmaster A1-15-C10-U	15	300NB(12")	525	2311	1228
Flowmaster A1-16-C10-U	16	300NB(12")	560	2465	1228
Flowmaster A1-17-C10-U	17	300NB(12")	595	2619	1228
Flowmaster A1-18-C10-U	18	300NB(12")	630	2773	1352

The flow rates provided are based on Polypropylene Filter Cartridge of 1-micron rating with Clean Water 0.1 bar(1.5 PSID) differential pressure across filter cartridge. Actual flow rate may vary depending on process parameters, MOC & micron rating of the selected filter cartridge. Please consult our sales engineers to ensure accurate sizing of your filtration system.

Flowmaster A1 Series - Multi Cartridge Filter Housing

Ordering Table

Model No.	Pressure Rating	Housing Material	Gasket Material	Surface Finish
Flowmaster A1 Series Model	P10= 10 bar (145 PSI)	M1= Stainless Steel Gr. 304	B= BUNA-N	1= Mirror Finish
	P16= 16 bar (232 PSI)	M2= Stainless Steel Gr. 304L	E= EPDM	2= Matt Finish
	PC= Higher Pressure Rating on Request	M3= Stainless Steel Gr. 316	S= SILICON	3= Glass beading
		M4= Stainless Steel Gr. 316L	V= VITON	
		M5= Stainless Steel Gr. 2205	P= PTFE Encapsulated Viton	
		M6= Material other than listed on Request	N = NEOPRENE	
Example				
Flowmaster A1-18-C10-U	P10	M1	B	3

Ordering Code Example :

Flowmaster A1-18-C10-U-P10-M1-B-3

Flowmaster A1 Series Multi-cartridge hi-flow filter housing suitable for 18 Nos of Filter cartridges with Process Connection of 300 NB, Pressure Rating of 10 bar, MOC of Housing Stainless Steel Gr. 304, Buna-N Gasket Material and Glassbead surface finish.



MFG OF LIQUID AND GAS FILTERS

Address : 8, Uma industrial estate, survey no 300, Nr Shiv Bhumi estate – 3, Bakrol, Ahmedabad – 382430, Gujarat, India

M : +91 99252 82204 | 91 97227 79907

E : info@Lngfilters.com | **w :** www.Lngfilters.com