BERNOULLI MANUAL INDUSTRIAL FILTERS

Bernoulli offers you • End-to-end solutions • Continual innovation • Genuine partnership • Product customisation • After sales service

Unwavering commitment to *your* filter solutions

Since 1986, Bernoulli has proven time and again that our customers come first, and that we can be counted on to solve industrial filter challenges in a wide variety of industries and applications. We partner you to provide the right filter solutions, quickly and efficiently.

Our way of working

First, we keep our organisation flat and flexible, with short decision pathways. This ensures that customer needs are rapidly detected and understood by the experts who can make a difference.

Second, our product design and management is built around customisation, and the tailoring of solutions to unique customer requirements.

Third, we maintain a global network of sales representatives and service technicians, to assist customers with technical filter solutions and routine maintenance as well as emergencies.

We also use ISO certified management systems to make sure our performance keeps on improving.

Satisfied customers, worldwide

Over the years, the Bernoulli way of working has proven to be successful and highly appreciated by our customers. Today, thousands of corporations in over 80 countries enjoy the benefits of our filter technology, in everything from industrial cooling water systems to water treatment systems.

Partner with Bernoulli and feel secure in the knowledge that you have the highest quality, best service, and most dedicated partner in industrial filters.

THE GAME-CHANGING WATER FILTER

The first automatic Bernoulli Filter was introduced to the market in 1990. The new filter was designed to be simple in its design yet reliable in operation. Its defining characteristic was a cleaning technology based on the Bernoulli Principle, named after the Swiss scientist Daniel Bernoulli. The factors behind the success of the Bernoulli Filter are its continuous operation without the need for manual intervention and its very low number of moving parts.

The idea of manufacturing manual Bernoulli Filters emerged when customers installed automatic Bernoulli Filters together with by-pass filters from other suppliers. In order to fulfill all of our customer's needs, the manual filters were a necessary addition to the product portfolio.

About manual Bernoulli Filters

Our manual filters are designed to be operated either as by-pass filters (together with an automatic filter) or as guard/police filters in closed systems or systems with low particle content. The filters in the MSG product line have a body of GRP (Glass fibre Reinforced Polyester) which means they can handle corrosion problems stemming from stagnant water in sea-water cooling systems. Our MSG products thus address a previously unmet need in the market, offering customers corrosion-resistant by-pass filters for the first time

Typical applications

Since the fundamental purpose of a Bernoulli Filter is to reduce the content of suspended solids in water from natural sources, the scope of applications spans everything from pre-filtration in water treatment to the protection of plate heat exchangers and sensitive process equipment such as spray nozzles. Bernoulli Filters are used in a variety of industries. Power generation, petrochemicals, HVAC, steelmaking, aquaculture, pharmaceuticals, pulp and paper, and foods and beverages are just a few examples.

Features

Manual Bernoulli Filters are equipped with an additional plugged differential pressure connection on the outlet nozzle. This makes it possible for the customer to monitor the pressure across the filter by using either a differential pressure gauge or two separate manual pressure gauges. The two standard differential pressure connections come plugged. All our manual filters are equipped with a hand lever controlled valve. And like all Bernoulli Filters, our manual products can be installed in almost any position, horizontally as well as vertically.

We offer two product lines in this category; MSG range (GRP) and MSS range (AISI 316L)



MSG

The MSG product line consists of six models, DN100 (4") - DN350 (14"), handling capacities up to 1600 m³/h. Like its automatic sibling. the MSG filter is durable and light weight thanks to its GRP filter body.



The MSS product line meets the requirement of industries where stainless steel is the material of choice. Six models of MSS filter are available, ranging in size from DN 80 (3") up to DN 300 (12"), covering capacities up to 1200 m³/h.

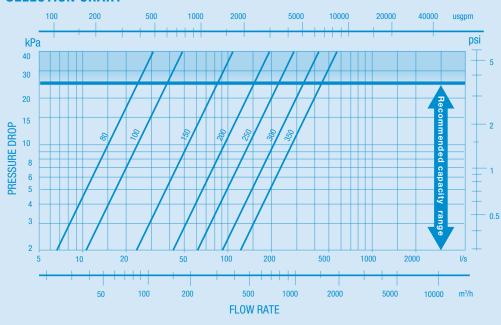
A major advantage of our manual filters is that they can be easily converted into fully automatic Bernoulli Filters later on, if necessary.

BUILT TO LAST

Choose a Bernoulli Filter from Bernoulli System, and you get a reliable filter with an ingeniously simple design that ensures continuous, safe operation year after year. Quite simply, our filters are effective and they last!

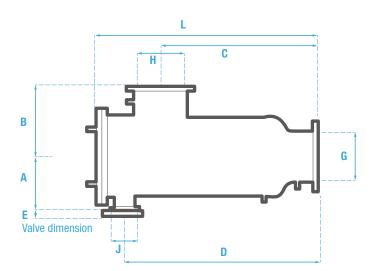
TECHNICAL DATA - MANUAL INDUSTRIAL FILTERS

SELECTION CHART



Example

Recommended filter size at a flow rate of 500 m³/h – DN 200 or DN 250.



STANDARD DESIGN SPECIFICATIONS

Design code	EN 13121 / ASME VIII, Div 1 / ASME X						
Flange standard	DIN 2632 PN10 / ANSI B 16.5 lbs 150						
Maximum operating pressure	10 bar (g)						
Maximum operating temperature	MSG: 60°C1 / MSS: 80°C						
Filter body material	MSG: GRP / MSS: AISI 316L						
Filtration range	0.1–1.0 mm Wedge wire 1.0–2.0 mm Perforated						
Filter basket material	Stainless steel (316, Duplex, Super-duplex) / Titanium						

¹ Alternative maximum operating temperatures are available upon request.

DIMENSIONS

DINENSIONS											
Filter type	Flow capacity	Dimensions (mm)									
	Max (I/s)	Α	В	C	D	E	L	G/H	J	Weight (kg)	
FILTER BODY IN GRP											
MSG 100	36	185	200	385	495	212	630	DN 100	DN 40	18	
MSG 150	83	240	275	530	675	212	820	DN 150	DN 50	40	
MSG 200	145	310	350	705	890	292	1060	DN 200	DN 65	60	
MSG 250	235	350	400	825	1050	52	1260	DN 250	DN 100	105	
MSG 300	325	400	475	1000	1260	52	1480	DN 300	DN 100	160	
MSG 350	450	400	475	1100	1380	52	1610	DN 350	DN 100	180	
FILTER BODY IN AISI 316L											
MSS 80	23	165	165	340	455	90	570	DN 80	BSP 1 1/4"	30	
MSS 100	36	200	175	350	465	115	590	DN 100	BSP 1½"	37	
MSS 150	83	250	250	500	650	115	770	DN 150	BSP 2"	90	
MSS 200	145	275	300	630	820	165	970	DN 200	BSP 2 1/2"	140	
MSS 250	235	325	350	750	975	52	1150	DN 250	DN 100	210	
MSS 300	325	380	380	900	1160	52	1350	DN 300	DN 100	270	



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