100P Series

High Pressure Filters Max 1000 I/min - 414 bar

When it comes to high flow capacity for high pressure systems

A high flow rate filter solution

The 100P Series design means on element change only the bowl endcap has to be removed. Microglass III glassfibre media is standard. Maximum pressure 414 bar. Maximum flow 1000 l/min. An ideal solution where space is at a premium.

Contact Information:

Parker Hannifin Hydraulic Filter Division Europe

European Product Information Centre Freephone: 00800 27 27 5374 (from AT, BE, CH, CZ, DE, EE, ES, FI, FR, IE, IT, PT, SE, SK, UK) filtrationinfo@parker.com

www.parker.com/hfde

Product Features:

- 100P design, only the bowl end-cap is removed on element change.
- Microglass III glassfibre media is standard.
- Maximum pressure 414 bar. Maximum flow 1000 l/min.
- An ideal solution where space is at a premium.





100P Series High Pressure Filters

Features & Benefits

Features	Advantages	Benefits		
High 414 bar pressure rating	Strong and robust housing for heavy duty applications	Reliable and continuous operation for open and closed loop applications		
Flow rates up to 1000 l/min	Pressure filtration possible for high flow rates	Excellent protection of high performance machinery		
Optional reverse flow valve	Allows reverse flow and prevents back wash of element	Ideal for applications where back flow is expected		
Bottom access bowl	Only bottom of the bowl must be opened for element change	Easy service		
Microglass III replacement elements	Multi-layered design produced high capacity	Great performance value		
	and efficiency	Reliable performance throughout element life		
	Wire support reduces pleat bunching, keeps performance consistent	Reduces downtime, maximises element life		
Visual and electrical indicators available	Check element condition at a glance	Optimises element life, prevents bypassing		
	Right style for the application	Matches your system electrical connections		

Typical Applications

- Drilling rigs
- Power packs
- Oil/gas industry
- Flight simulators
- Test rigs

The Parker Filtration Model 100P High Pressure Filters.

The 100P Series is designed to meet the growing demand for high-pressure filters with a flow rate capacity of up to 1000 l/min at 414 bar working pressure. For systems where reverse flow can be expected, an optional integrated reverse flow valve avoids back wash of contamination. When changing the element, only the end cap of the bowl has to be removed. The filter is ideal for applications where space is at a premium. The filter media used in the elements is high quality Microglass III glass fibre.



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Specification

Pressure ratings:

Maximum allowable operating pressure 414 bar. Filter housing pressure pulse fatigue tested: 3*10⁶ pulses 0 - 276 bar. **Connections:**

Inlet and outlet connections are threaded internally or flange faced. Threads G11/2", G2" (ISO 228/1), SAE 24, SAE 32. or flanges 11/2" SAE 6000, 2" SAE 6000, 11/2" SAE 6000-M, 2" SAĔ 6000-M. *6000-M is a SAE style with appropriate metric fixing threads.

Filter housing: Head material cast iron (GSI).

Bowl material extruded steel, max torque 200 Nm.

Seal material: Nitrile or Fluoroelastomer.

Operating temperature range:

Seal material Nitrile: - 40 °C to +100 °C. Seal material Fluoroelastomer: - 20 °C to +120 °C.

Bypass valve:

Opening pressure 7.0 bar.

Options:

Reverse flow valve, which directs back flow from port to port.

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Filter element: Degree of filtration:

Determined by Multipass-test according to ISO 16889. Flow fatigue characteristics:

Filter media is supported so that the optimal fatigue life is achieved (ISO 3724).

Microglass III:

Supported with epoxy coated metal wire mesh, end cap material reinforced composite and metal inner core. Collapse rating 20 bar (ISO 2941).

Indicator options:

Indicating differential pressure: 5.0 bar. - visual indicator. - electrical indicator.

Weights (kg): 100P-1: 37 kg. 100P-2: 47 kg.

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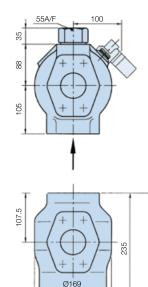
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3/3A

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Fluid compatibility: Suitable for use with mineral and vegetable oils, and some synthetic oils. For other fluids, please consult Parker Filtration.

Installation Details

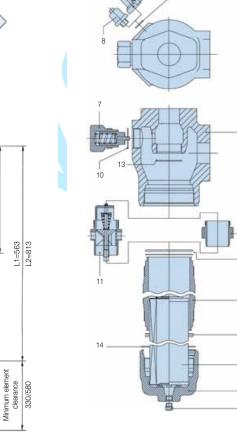


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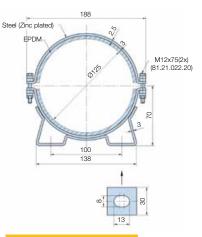
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Mounting Clamp Item 16



Ту	pe H model 1000
1	Filter head
2	Filter element
3	Bowl seal
ЗA	Bowl back-up ring
4	Housing
5	Cover
6	Indicator seal
7	Bypass set
8	Visual indicator
9	Electrical indicator
10	Bypass seal
11	Reverse flow set
12	Adaptor
13	Adaptor/reverse flow seal
14	Cover seal
15	Drain plug
16	Mounting clamp

Note: For installation drawings of the SAE 11/2" and 2" flanges, contact Parker.

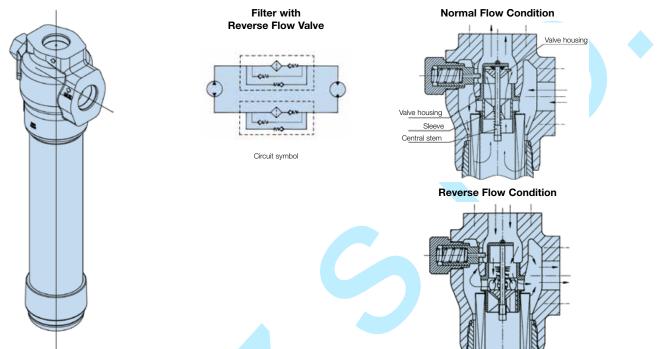


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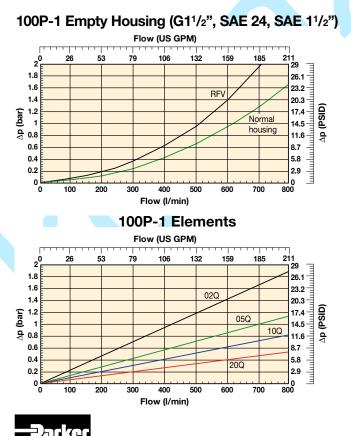


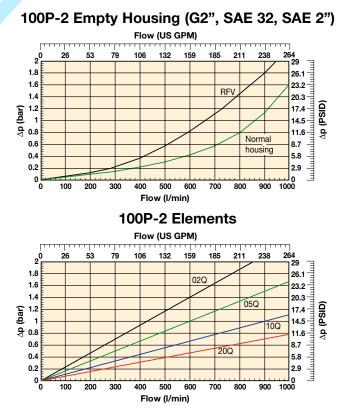
Additional Information



Pressure Drop Curves

The recommended level of the initial pressure drop is max. 2.3 bar. If the medium used has a viscosity different from 30 cSt, pressure drop can be estimated as follows: The total Δp = housing Δph + (element $\Delta pe x$ working viscosity/30).





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Ordering Information

Standard products table

Part number	Supersed	es Flow (I/min)	Model number	Element length	Media rating (µ)	Seals	Indicator	Bypass settings	P	orts	Replacement elements	Supersede
100P105QBM4MF241	1074A.2HN70.FZ	1210 600	100P	Length 1	5	Nitrile	Visual	7.0 bar	SAE flang	je 11/2" 6000	939061Q	1070Z121A
100P110QBM4MF241	1074A.2HN70.FZ	1220 700	100P	Length 1	10	Nitrile	Visual	7.0 bar	SAE flang	je 11/2" 6000	939062Q	1070Z122A
100P120QBM4MF241	1074A.2HN70.FZ	1230 800	100P	Length 1	20	Nitrile	Visual	7.0 bar	7.0 bar SAE flange 11/2" 6000		939063Q	1070Z123A
100P205QBM4MF321	1074A.2HN70.Tz	22210 840	100P	Length 2	5	Nitrile	Visual	7.0 bar	SAE flan	ge 2" 6000	939065Q	1070Z221A
100P210QBM4MF321	1074A.2HN70.TZ	22220 920	100P	Length 2	10	Nitrile	Visual	7.0 bar	SAE flan	ge 2" 6000	939066Q	1070Z222A
100P220QBM4MF321	1074A.2HN70.Tz	22230 1000	100P	Length 2	20	Nitrile	Visual	7.0 bar	SAE flan	ge 2" 6000	939067Q	1070Z223A
Product configurator Sox 1 Box 2 100P 2 Sox 1 Cod Model Large HP filter, L-port Sox 2	(Box 4		Box 5		30x 6	M	Box 7 F32	Bo	< 8 1		
Filter type				Degr	ee of filt	ratio	n					
Length Coc	le Element	media		Glass	fibre							
Length 1 1							Media co					
Length 2 2	Microgla	ass III element			02Q	05	Q	10Q	20Q			
Box 4		Box 5						Box 6				
Seal type				Indicat	tor			By	pass an	d indicato	or settings	
Seal material	Code						Code	Bypass v	alve	Indicator	Code	-
Nitrile	В	Indicator port	plugged				P	7.0 bar		5.0 bar	M	-
Fluoroelastomer	V	Visual indicato					M4	When filter	includes a	bypass valve	but not an indicator,	-
Electrical			Electrical indicator				T2	code denotes bypass setting.				
		Electrical indicator with red lamp 28 Vdc, N.O.					T3					
	Electrical indicator with red lamp 110 VAC, N.O.				D.	T4						
						D. T5						
		Electrical indic	ator with r	ed lamp 2	50 VAC, N.0	D.	T5					
ox 7			ator with r	ed lamp 2	50 VAC, N.(Э.	T5					

DUX /						
Filter connection						
Connections	Code					
Thread G 11/2	G24					
Thread G 2	G32					
Thread SAE 24	S24					
Thread SAE 32	S32					
SAE flange 11/2" 6000	F24					
SAE flange 11/2" 6000-M	on request					
SAE flange 2" 6000	F32					
SAE flange 2" 6000-M	on request					

Options							
Options	Code						
Standard	1						
Reverse flow valve	3						
ATEX certified*							
(Category 2, non-electrical equipment)	EX						
Note 1*: For ATEX classified filters add EX after the code. ATEX certified filters with electrical indicator are available on request. Visual indicators are classified as							
Category 2, non electrical equipment. Filter assemblies							

es with EX code will be supplied with a dedicated name plate. Pls consult Parker Filtration for any questions related to the classification of our products.

Replacement elements with nitrile seals							
Media	Length 1	Length 2					
02Q	939060Q	939064Q					
05Q	939061Q	939065Q					
10Q	939062Q	939066Q					
20Q	939063Q	939067Q					

Nominal flow (I/min) at viscosity 30 cSt								
Filter port size	02Q	05Q	10Q	20Q				
100P-1, 1 ¹ / ₂ "	540	600	700	800				
100P-2, 2"	700	840	920	1000				

Seal Kit and Mounting Clamp					
Options	Code				
Seal kit (nitrile)	8069000070				
Seal kit (fluoroelastomer)	8061000013				
Mounting Clamp	84.47.265.01				

Spare Indicators					
Part Number	Option				
8060050033	M4				
8060070002	T2				
8060070007	T3				
8060070006	T5				
Note: Refer to Box 5 for options explanation.					

		Degree of filtration						
		Average filtration beta ratio β (ISO 16889) / particle size μm [c]						
Highlights Key (Denotes part number availability)		ßx(c)=2	ßx(c)=10	βx(c)=75	ßx(c)=100	Bx(c)=200	βx(c)=1000	
400	Name in standard		% efficie	ncy, based on t	the above beta	ratio (ßx)		
123	Item is standard	50.0%	90.0%	98.7%	99.0%	99.5%	99.9%	
123	Item is standard green option	N/A	N/A	N/A	N/A	N/A	4.5	
123	Item is semi standard	N/A	N/A	4.5	5	6	7	
123	Item is non standard	N/A	6	8.5	9	10	12	
		6	11	17	18	20	22	

Note 1: Part numbers featured with bold highlighted codes will ensure a 'standard' product selection. Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.



Code

Disposable

Microglass III

02Q

05Q

10Q 20Q