

MEDIUM PRESSURE FILTERS Models 16P, 26P, 36P



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Specification

Maximum Allowable Operating Pressure (MAOP) 250 bar. Factor of safety 3:1 minimum.

Operating Temperature -40°C to 120°C

Materials of Construction

SG Iron head, Steel bowl

Ports

Inlet and outlet ports are threaded internally. 36P available with flange face.

Port Size	Model	
G3/4	16P-1&2	
G1	26P-1&2	
G 1 1/4	36P-1&2	
1 1/2" 3000	Flange Face	

Bypass Valve and Indicator Settings

Table below gives bypass valve settings with their corresponding indicator settings.

Bypass	Indicator
1.7 bar	1.2 bar
3.5 bar	2.5 bar

Weights (kg)

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Model	Length 1	Length 2
16P	4	5.5
26P	6.5	9
36P	15.5	20

Fluid Compatibility

Suitable for use with mineral oils, most water glycols and other water based fluids. For other fluids, please consult Parker Filtration.

Seals

Nitrile or Fluoroelastomer*

Element Condition Indicators (Differential Pressure Type)

- 1. Cartridge type visual, with manual reset.
- 2. Cartridge type visual and electrical, with auto reset and socket to DIN43650 (250v, 50-80Hz, 5A Max).

Filter Element

'Microglass' disposable inorganic fibre media. Available as 3, 6, 10 or 20μ absolute ($\beta x > 75$). Media is supported up and downstream, and the whole assembly bonded using an epoxy adhesive. End caps and support tube are tin plated

giving excellent corrosion protection.

Element Collapse Rating

20 bar differential minimum.

Test Standards

Elements are tested to all relevant standards, including ISO4572 Multipass Test. Complete assemblies tested in accordance with ISO3968, "Determination of pressure drop flow characteristics of hydraulic fluidpower filters" using mineral oil fluid SAE 10 @ 30 cSt viscosity. Parker Filtration is accredited to the ISO9002 quality standard.

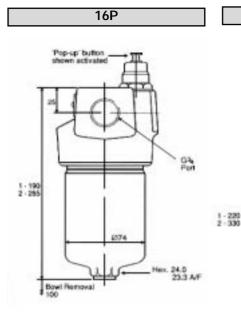
*Fluoroelastomers are available under various registered trademarks, including Viton (a registered trademark of DuPont) and Fluorel (a registered trademark of 3M). P A

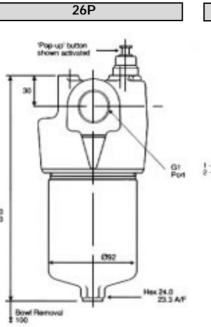
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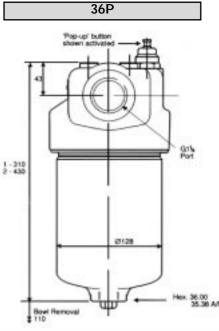
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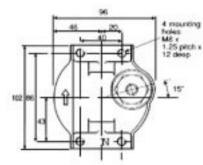
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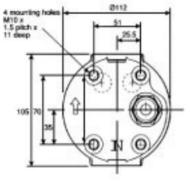
Installation Details

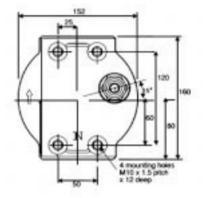












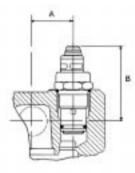
Plug Pin Code 1 Common 2 N. Closed 3 N. Open



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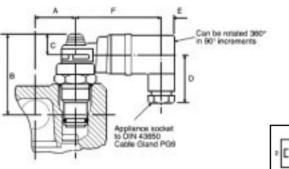
Indicator Options



1. Cartridge type visual

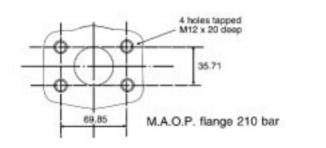
Indicator Dimensions (mm)

Model В D G А С Е F 30 30 16P 60 15 35 10 62 32 60 15 35 10 62 32 26P 36P 48 76 15 35 10 62 48



2. Cartridge type visual and electrical

36P Flange Face Details

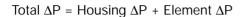


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Filter Performance

To select the correct housing and element, it is recommended that the ratio between the bypass setting and the differential pressure across the filter with a clean element, at the rated flow, should be at least 2:1.

To find total pressure differential through the filter assembly, add the 'housing only' pressure differential to the 'element only' pressure differential, at the rated flow.

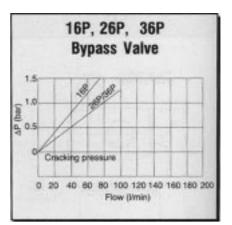


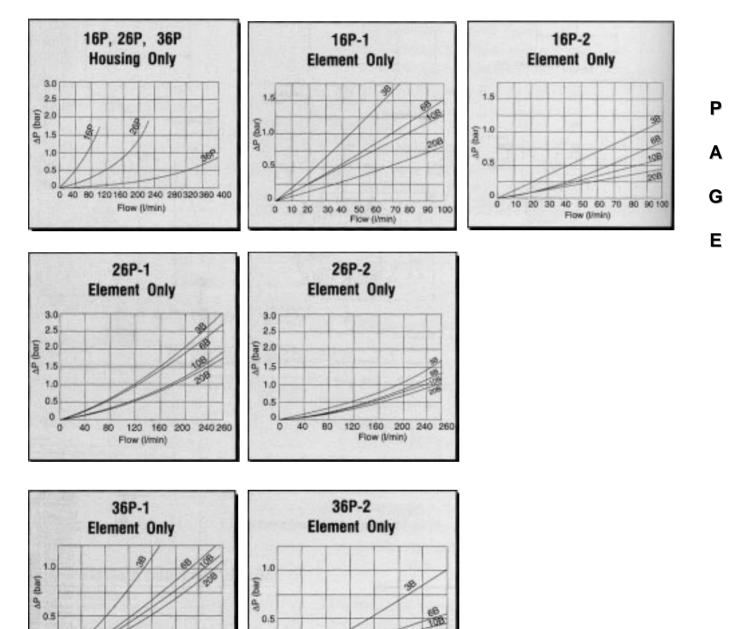
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100 200 300 400 500 600

Flow (I/min)





0

0

700

208

100 200 300 400 500 600 700

Flow (I/min)



Operation & Element Servicing

Installation

The 16P, 26P, 36P medium pressure filters are designed to operate in systems where the operating pressure does not exceed 250 bar.

The filter should be mounted with the bowl down and secured to a suitable bracket using the mounting holes provided on the filter head. Ensure that the filter is orientated so that the visual indicator if fitted is clearly visible.

When connecting to the system the arrow stamped on the filter head should coincide with the flow direction.

Operation

Fluid enters the inlet port on the head and flows around the annular area of the bowl outside the filter element, passes through the filter media and exits the housing via the outlet port. The pressure differential across the filter will be at its lowest when the element is clean. See the flow curves for differential pressure detail at rated flow. Contaminents removed from the fluid system build up both on and within the filter media. The pressure differential across the filter increases as the amount of trapped contaminant increases.

This increase in pressure differential is reflected on the visual or electrical indicator if fitted. If no indicator is fitted then it is suggested that the element be changed at predetermined intervals. When the pressure differential across the filter element meets the bypass valve spring rate the valve opens preventing over pressurisation of the element. Filter elements should be changed before the bypass valve opens as shown externally by either the visual or electrical indicator.

Element Servicing

Ensure that the hydraulic system is switched off and that the pipework is de-pressurised. Drain fluid from filter bowl by removing bowl drain plug if fitted. With suitable spanner unscrew the bowl from the filter head revealing the dirty element. Grasp the element and pull downwards with a slight twisting movement to remove. Discard used element and check head and bowl for damage. Clean inside bowl with a cleaning agent (do not use cloth or paper towels). Check that the appropriate seal is fitted to the element, lubricate and replace the element in the filter head. Check the condition of the head to bowl seal, replace if necessary, lubricate and refit the bowl to the head. On repressuring the filter check for leaks.

Replacement Element Part Numbers

Nitrile Seals

Model	3B	6B	10B	20B
16P-1	G04342	G04343	G04344	G04345
16P-2	G04350	G04351	G04352	G04353
26P-1	G04358	G04359	G04360	G04361
26P-2	G04366	G04367	G04368	G04369
36P-1	G04374	G04375	G04376	G04377
36P-2	G04382	G04383	G04384	G04385

Fluoroelastomer Seals

Model	3B	6B	10B	20B
16P-1	G04346	G04347	G04348	G04349
16P-2	G04355	G04355	G04356	G04357
26P-1	G04362	G04363	G04364	G04365
26P-2	G04370	G04371	G04372	G04373
36P-1	G04378	G04379	G04380	G04381
36P-2	G07386	G04387	G04388	G04389

Seal Kits

Model	Nitrile	Fluoroelastomer
16P	S03534	S03536
26P	S03537	S03539
36P	S04153	S04155

Spare Indicators

Setting	Visual	Visual/Electrical
2.5 bar	932027	929599
1.2 bar	932026	931153

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Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8	Box 9
F3	26P	1	10B	E2	50	C2C2	1	-

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Nitrile
Fluoroelastomer

Box 2
Model Number
16P
26P
36P

Box 3	
Bowl Length	
1 Length 1	
2 Length 2	

Box 4

Element MediaMicroglass media (βx > 75)3B3µ absolute6B6µ absolute10B10µ absolute

20B 20µ absolute

Indicator Options

N No Indication

- M2 Cartridge type, visual auto reset
- E2 Cartridge type, visual and electrical

Box 6

Bypass Setting

25 1.7 bar

- 50 3.5 bar
- Box 7

Ports Model	Symbol	Description
16P 26P 36P	B2B2 C2C2 D2D2 YY	G3/4 G1 G1 1/4 1 1/2" 3000 Flange Face

Box 8

Options

. With bypass

Box 9

Design Number

Applied to the filter assembly by Parker Filtration.

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