

## PALL hydraulic oil filter element

PALL was founded by Dr. David B Pall in New York, USA in 1946, focusing on the research and production of filters and filtration separation systems. Pall is headquartered in New York, USA, with subsidiaries, manufacturing plants, and research and development institutions spread across more than 40 regions.

The filter bed combination pre filtration layer of the system filter element. Composed of ultra-fine fiber layer, support layer, filter layer, and gravity settling layer, all solid particles larger than 3  $\mu\text{m}$  in the output air of the compressor can be filtered out, while the extremely small oil water and gas particles of about 0.01-1  $\mu\text{m}$  are condensed into larger oil droplets when passing through the filter element, accumulating at the bottom of the filter element, and then siphoning back to the lubrication system through the return oil pipe in the concave part of the filter element bottom, so that the compressor can discharge purer and oil-free compressed air.



PALL滤芯型号 PALL Filter element model

HC8314F K P 13 H

滤芯系列	HC2216F	HC8314F	K	P	13	H	4
	HC6200F						6
	HC6300F						8
	HC6400F						10
	HC8200F						13
	HC8314F						15
	HC9100F						16
	HC9600F						26
	HC9800F						39
β 比 护网	K	HC8314F	K	P	13	H	Z--1 $\mu\text{m}$
	D						P--3 $\mu\text{m}$
	U						N--6 $\mu\text{m}$
							S--12 $\mu\text{m}$
							精度
							T--25 $\mu\text{m}$
							R--40 $\mu\text{m}$
							S--12 $\mu\text{m}$

H--丁晴橡胶 (黑色)
Z--氟胶圈

**Filter cartridge usage:**

(1) The Pall filter element should be installed at the suction port of the pump: a surface type oil filter is usually installed on the suction path of the pump to filter out larger impurities and particles to protect the hydraulic pump. In addition, the filtering capacity of the oil filter should be more than twice the pump flow rate, and the pressure loss should be less than 0.02 MPa.

(2) The pall filter element is installed on the outlet oil circuit of the pump: the purpose of installing the oil filter here is to filter out pollutants that may enter valve components and other parts. Its filtration accuracy should be 10-15  $\mu$  m, and it should be able to withstand the working pressure and impact pressure on the oil circuit, with a pressure drop of less than 0.35 MPa. At the same time, a safety valve should be installed to prevent clogging of the oil filter.

(3) The Pall filter element is installed on the system's return oil line: this installation serves as an indirect filter. Usually, a back pressure valve is installed in parallel with the filter. When the filter becomes clogged and reaches a certain pressure value, the back pressure valve opens.

(4) The pall filter element is installed on the system branch oil circuit.

(5) PALL filter element separate filtration system: Large hydraulic systems can be equipped with a dedicated hydraulic pump and oil filter to form an independent filtration circuit.

In addition to the oil filter required for the entire system, a dedicated fine oil filter is often installed in front of some important components (such as servo valves, precision throttle valves, etc.) to ensure their normal operation in the Pall filter hydraulic system.

## Product specifications and models

Model series

- |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <input type="checkbox"/> HC0171F | <input type="checkbox"/> HC2206F | <input type="checkbox"/> HC2216F | <input type="checkbox"/> HC2233F | <input type="checkbox"/> HC2295F | <input type="checkbox"/> HC2618F | <input type="checkbox"/> HC6200F | <input type="checkbox"/> HC6300F |
| <input type="checkbox"/> HC6400F | <input type="checkbox"/> HC6500F | <input type="checkbox"/> HC7400S | <input type="checkbox"/> HC7500S | <input type="checkbox"/> HC8200F | <input type="checkbox"/> HC8300F | <input type="checkbox"/> HC8304F | <input type="checkbox"/> HC8314F |
| <input type="checkbox"/> HC8400F | <input type="checkbox"/> HC8500F | <input type="checkbox"/> HC8700F | <input type="checkbox"/> HC8900F | <input type="checkbox"/> HC8904F | <input type="checkbox"/> HC9020F | <input type="checkbox"/> HC9021F | <input type="checkbox"/> HC9100F |
| <input type="checkbox"/> HC9101F | <input type="checkbox"/> HC9400F | <input type="checkbox"/> HC9404F | <input type="checkbox"/> HC9600F | <input type="checkbox"/> HC9601F | <input type="checkbox"/> HC9604F | <input type="checkbox"/> HC9606F | <input type="checkbox"/> HC9650F |
| <input type="checkbox"/> HC9651F | <input type="checkbox"/> HC9700F | <input type="checkbox"/> HC9701F | <input type="checkbox"/> HC9800F | <input type="checkbox"/> HC9801F | <input type="checkbox"/> HC9901F |                                  |                                  |

$\beta$  than protecting the net

- ☐ K   ☐ D   ☐ U

Filtration accuracy  $\mu\text{m}$

- ☐ Z   ☐ P   ☐ N   ☐ S   ☐ T   ☐ R

Filter length

- ☐ 4   ☐ 6   ☐ 8   ☐ 10   ☐ 13   ☐ 15   ☐ 16   ☐ 26   ☐ 39

Accessory rubber rings

- ☐ H  
☐ Z

Note: HC7400S and HC7500S are optional filter series, please contact us for other models

For PALL UE series model inquiries, please click [here](#)

## Technological process





**注胶**  
Glue injection



**打褶**  
Gleat



**无尘车间**  
Clean room



**检验**  
Test



**制模**  
Molding



**焊接**  
Welding

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