



Pall Corporation

T200

T200 Series

service instructions



EN

T200 Service Instructions

ENGLISH

M&ESIT200ENa

Filtration. Separation. Solution.SM

1 Specifications

Housing materials:

Head: Aluminium Alloy
Canister: Polyimide PA66

Maximum operating pressure:

10 bar (150 psi)

Element collapse pressure:

HCT200 series element 10 bard (150 psid) differential minimum

Operating temperature range:

-43°C to 100°C (-45°F to 212°F) with nitrile seals for petroleum based and specified synthetic fluids, 60°C (140°F) max HWCf or water glycol fluids

Bypass valve setting options:

3.4 ± 0.3 bard (50 ± 5 psid) cracking pressure

Seals:

Nitrile

The actual operating conditions should be checked by the user to ensure that the element, housing and all seals are compatible with the fluid and application, and are within local safety codes. Please contact Pall or an approved distributor if further information is required.

2 Receipt of equipment

CAUTION:

Maximum surge flow should not exceed 1.3 times normal flow.

The filter housing, and any optional equipment, are packed individually for assembly by the customer. Unpack carefully and ensure optional items are not mislaid in packaging to be discarded.

3 General sources of information

- 3.1 For dimensions, operating parameters, assembly/element part number, ordering information, notes, performance data and specifications refer to datasheet.
- 3.2 This equipment has been assessed in accordance with the guidelines laid down in the European Pressure Directive 97/23/EC and has been classified within sound engineering practice S.E.P. We hereby declare the equipment meets the requirements of article 3, section 3, thus meeting the directive requirements. Under the provisions of this directive the filter assembly is suitable for use with group 2 fluids only.
- 3.3 Where under reasonably foreseeable conditions, including external fires, the allowable limits could be exceeded, suitable protective devices must be installed by the customer within the connecting fluid system.

4 Installation of housing

- 4.1 The filter should be installed vertically with the cover pointing upwards.
- 4.2 The minimum clearance required for element removal of is as follows:
248mm (9.8in) for length 8, 147mm (5.8in) for length 4.
- 4.3 Threaded pressure gauges, pipe plug or elbow, when fitted, hand tighten plus 1-2 turns with a wrench.

NOTE: The housing is supplied with a machined pressure gauge port (position 1) fitted with a pressure gauge.

CAUTION:

Never operate the filter unless all warning device ports are sealed.

- 4.4 Mount the filter assembly in position using 2 or 4 bolts in the holes on the head mounting pads. Torque bolts to 16-20 lbf (22-27 Nm). When using a 2 position mounting stud, the maximum height of the stud should be 24mm.
- 4.5 Install the filter housing using additional piping/valving to allow complete filter assembly bypass if filter maintenance is required without system shutdown. This series is not available in a duplex or service bypass configuration.

CAUTION:

Reverse flow through filter element will cause damage.

WARNING:

USE FITTINGS OR ADAPTORS COMPATIBLE WITH PORTS SUPPLIED AS SHOWN BY PART NUMBER ON NAMEPLATE AND NOTED IN DATA SHEETS: USE OF INCORRECT FITTINGS OR ADAPTORS CAN CAUSE FILTER HOUSING OR MANIFOLD FAILURE RESULTING IN LOSS OF PRESSURE AND POSSIBLE SYSTEM FAILURE OR PERSONAL INJURY.

- 4.6 Connect lines or hoses to housing inlet ports.
Note: Painting of the filter housing is optional. The coating on the filter housing is a suitable painting base. Cover the pressure warning device if painting of the housing takes place.

5 Routine maintenance

- 5.1 Pall filters do not normally require special attention except for periodic monitoring of the pressure gauge. We recommend scheduled replacement of filter element every six months or sooner, and have ample supply of spare elements available.
- 5.2 If external leakage is noted, replace O-ring at leak. If leakage persists, check sealing surfaces for scratches or cracks; replace any defective parts.
- 5.3 The pressure gauge will indicate when the element needs changing or because of high fluid viscosity in 'cold start' conditions. If 'cold start' conditions exist, see Section 6.2 and 6.3.
- 5.4 A dirty system can quickly plug a new filter element, especially with Pall high efficiency filter media. It may require one or two initial element changes to stabilize element life. If element life is short or differential pressure is excessive, filter may be undersized; refer to the sizing and selection section of the product literature or contact your local Pall representative.

6 Pressure gauge

- 6.1 The pressure gauge will indicate when the element needs changing or because of high fluid viscosity in 'cold start' conditions.
- 6.2 If a pressure gauge is fitted and shows high pressure during 'cold start' conditions, check that the pressure returns to a 'normal' reading when the normal operating temperature is reached. If the gauge continues to show high pressure after system warm-up, replace the filter element.

7 Filter element servicing

During servicing, the external surfaces of the filter assembly must be cleaned to remove any dirt. Servicing must be conducted using suitable tools that do not present a hazard. Servicing must not be carried out when a potentially explosive atmosphere is present.

CAUTION:

Filter elements should be replaced upon high differential pressure or at specified intervals, six months maximum is recommended. Failure to change the element will cause the filter to go on bypass.

Refer to Service Parts List (Section 9) for item numbers for applicable replacement element series. Remove and replace element as follows:

- 7.1 Turn off and depressurize the system.

WARNING:

FAILURE TO DEPRESSURISE THE FILTER BEFORE SERVICING ELEMENT COULD RESULT IN EXPLOSIVE LOSS OF FLUID, DAMAGE TO EQUIPMENT AND POSSIBLE PERSONAL INJURY.

- 7.2 Unscrew and remove filter cover/adaptor assembly (2) from head (1) counterclockwise when viewed from above. It may be necessary to use a 24mm wrench on the hexagon on the filter cover assembly (2) to loosen the cover initially. Check that the O-rings are not damaged.
- 7.3 The cover/adaptor assy will pull the elements and canister from the filter unit. Hold the canister and adaptor to remove the element from the canister, then hold the element and adaptor to remove the element from the adaptor.
- 7.4 Dump remaining fluid from canister into a container. Lubricate the element O-rings with clean system fluid. Install new element into canister and seat into bottom of canister.
- 7.5 Install adaptor into element. Then install canister/cover assy into head. Thoroughly clean the cover threads. Thread cover into head to seal unit. **HAND TIGHTEN ONLY.**
- 7.6 Carefully inspect the surface of the removed filter element for visible contamination. Normally no dirt should show, but visible dirt or particles can be an early warning of system component failure. Discard both the filter element and its O-rings. The filter element is not CLEANABLE. Any attempt to clean the filter element can cause degradation of the filter medium and allow contaminated fluid to pass through the filter element.

WARNING:

DO NOT ATTEMPT TO CLEAN OR RE-USE THE ELEMENT.

ONLY USE GENUINE PALL REPLACEMENT FILTER ELEMENTS. USE OF SUBSTITUTE ELEMENTS MAY INVALIDATE PRODUCT WARRANTY.

- 7.7 DO NOT run the system without a filter element installed. Use replacement filter element part number called for on the element change label.
- 7.8 After starting the system check for leaks as per section 5.2. When system reaches normal operating temperature, check that the pressure gauge shows pressure in the normal operating range.

8 Warranty, Limitation of Liability and Remedies

THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE WITH RESPECT TO ANY OF THE PRODUCTS, NOR IS THERE ANY OTHER WARRANTY EXPRESS OR IMPLIED, EXCEPT AS PROVIDED FOR HEREIN.

For a period of twelve months from the date of delivery from Seller or three thousand hours of use, whichever occurs first (the "Warranty Period", Seller warrants that products manufactured by Seller when properly installed and maintained, and operated at ratings, specifications and design conditions, will be free from defects in material and workmanship. By way of explanation and not limitation, the Seller does not warrant the service life of the filter element as this is beyond the Seller's control and depends upon the condition of the system into which the filter is installed.

Seller's liability under any warranty is limited solely (in Seller's discretion) to replacing (FOB original ship point), repairing or issuing credit for products that become defective during the Warranty Period. Purchaser shall notify Seller promptly in writing of any claims and provide Seller with an opportunity to inspect and test the product claimed to be defective. Buyer shall provide Seller with a copy of the original invoice for the product, and prepay all freight charges to return any products to Seller's factory, or other facility designated by Seller. All claims must be accompanied by full particulars, including system operating conditions, if applicable.

Seller shall not be liable for any product altered outside of the Seller's factory except by Seller or Seller's authorized distributor, and then, as to the latter, only for products which have been assembled by the distributor in accordance with Seller's written instructions. Nor shall Seller be liable for a product subjected to misuse, abuse, improper installation, application, operation, maintenance or repair, alteration, accident or negligence in use, storage transportation or handling.

In no event will Seller be liable for any damages, incidental, consequential or otherwise, whether arising out of or in connection with the manufacture, packaging, delivery, storage, use, misuse, or non use of any of its products or any other cause whatsoever.

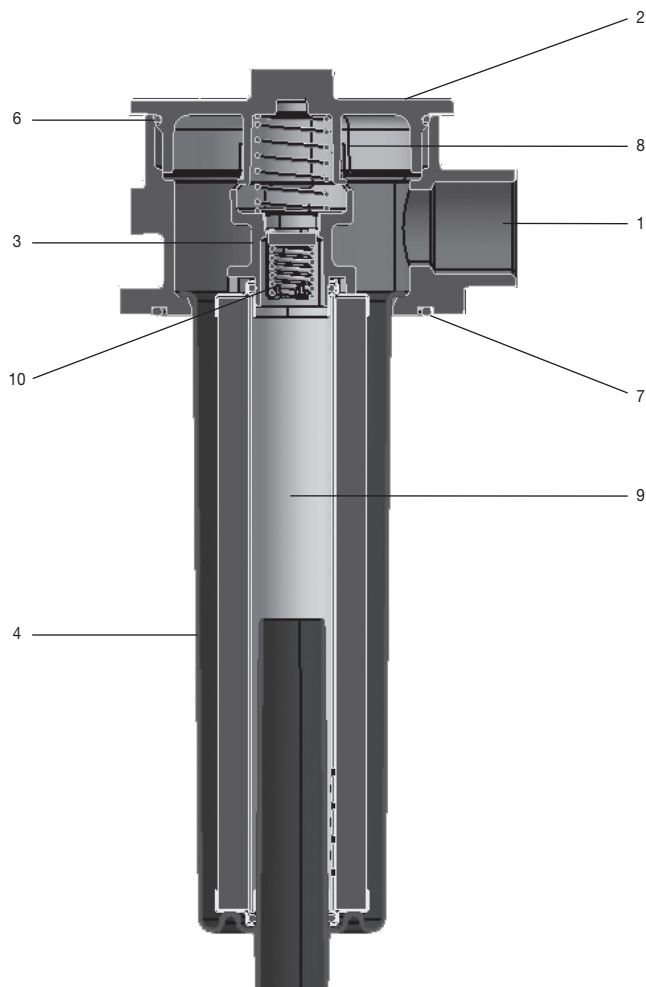
9 Parts List

List	Description	Quantity
1	Head	1
2	Cover	1
3	Adaptor	1
4	Canister	1
5	Gauge, elbow or plug options	1
6	O-ring (cover-to-head)	1
7	O-ring (head-to-tank)	1
8	Spring	1
9	*Filter element HCT200 series	1
10	Bypass valve	1

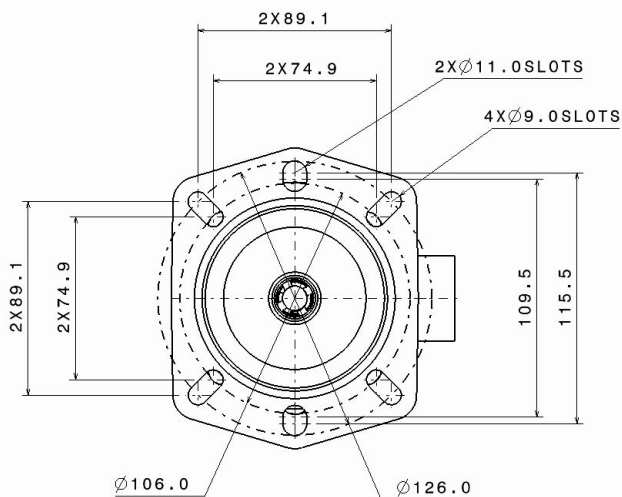
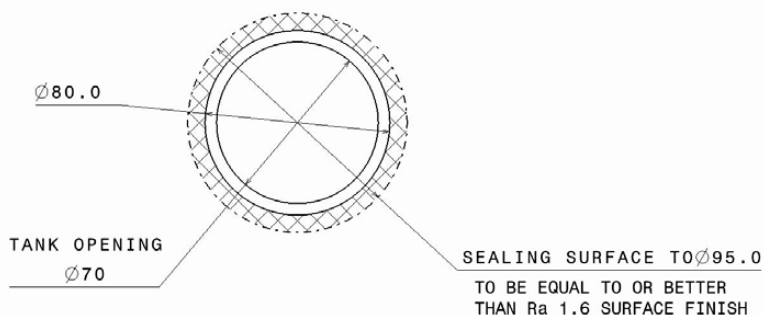
Spare Parts List:

Seal Kit P/N:	ST 200 SKH	(Items 6 & 7)
Cover Kit P/N:	ST 200 CVRHB	(Items 2, 3, 6, 8 & 10)
Element P/N:	HCT 200 FCS 4H	(4" - CS Media)
Element P/N:	HCT 200 FCS 8H	(8" - CS Media)
Element P/N:	HCT 200 FCT 4H	(4" - CT Media)
Element P/N:	HCT 200 FCT 8H	(8" - CT Media)
Canister Kit P/N:	ST 200 CANR	(4")
Canister Kit P/N:	ST 200 CANS	(8")

Figure 2



Tank mounting dimensions



T200

RETURN LINE IN-TANK FILTERS

T200 Series

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