Clarification form
for the analysis of technical cleanliness of components

Analysis acc. to ISO 16232 and VDA volume 19

1 Hydac Office: ___________________________ Employee: ___________________________

2 Customer: ____________________________

3 Contact person: ______________ Phone: ______________ e-mail: ______________

4 Order No. ____________________________ Cost Centre/Address for account ____________________________

5 Report: Paper (Post): __________ e-mail: __________

6 Component description: ____________________________ Type Code: ____________________________

7 Manufacturer: ____________________________ Drawing-No: ____________________________

8 Functional description: ____________________________

9 New Part [ ] after test stand [ ] Field application: [ ]

after cleaning plant [ ] Operating hours/km/years: ____________________________

after assembly [ ] miscellaneous [ ]

10 Prior test? no [ ] yes [ ] Lab report no. ____________________________

11 Test specification available? no [ ] yes [ ] No. ____________________________

12 Are we allowed to get in touch with the producer concerning component relevant questions/test methods?

no [ ] yes [ ] Contact person: ____________________________

Adress of producer: ____________________________

13 Data for analysis:

14 Quantity of components: __________ Component quantity per membrane: __________

15 Surfaces to be analyzed: Complete component [ ] Partial area [ ] Inner surfaces [ ]

Quantity: ____________________________

16 Special geometry ____________________________

(e. g. check valve, baffles, cross-section constriction etc.)

17 Average pore size of membrane 5 µm [ ] 8 µm [ ] miscellaneous: ____________ µm

18 Cascade 1st membrane: ____________ µm 2nd membrane: ____________ µm 3rd membrane: ____________ µm
19 Test parameters to be applied:

- ultrasonic
- spraying
- flushing
- shaking

volume (total) pressure

20 **Analytical method:**

- gravimetry (1)
- Light microscopic particle counting (2)
- REM-EDX particle counting (3)

21 **Destination of components after analysis:**

- Return to the customer (*)
- Pickup by the customer
- Scrapping through Hydac

(*) Costs for packaging and transport are for the customer's account.

22 **Remarks/Additions:**

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

23 **Note concerning packaging of the components:**

Since packaging affects the test result, it is advisable to pack the units into new clean plastic bags. The plastic bags are to be closed immediately in order to exclude contamination from the outside. Packaging and dispatch are to be selected in such a way that mechanical influences on the component (friction, impact) are avoided. The units are to be delivered completely empty (without operating medium). Should you have further questions please contact 06897-509-272 or labor.filtertechnik@hydac.com. Our lab staff will happily advise you.

(1) Determination of total mass through difference weighing of the membrane
(2) Automatic particle counting with a Leica light optical microscope and Q-clean software in the size ranges acc. to VDA, volume 19.
(3) Automatic particle counting with a scanning electron microscope and determination of the material particle composition through an EDX-analysis.