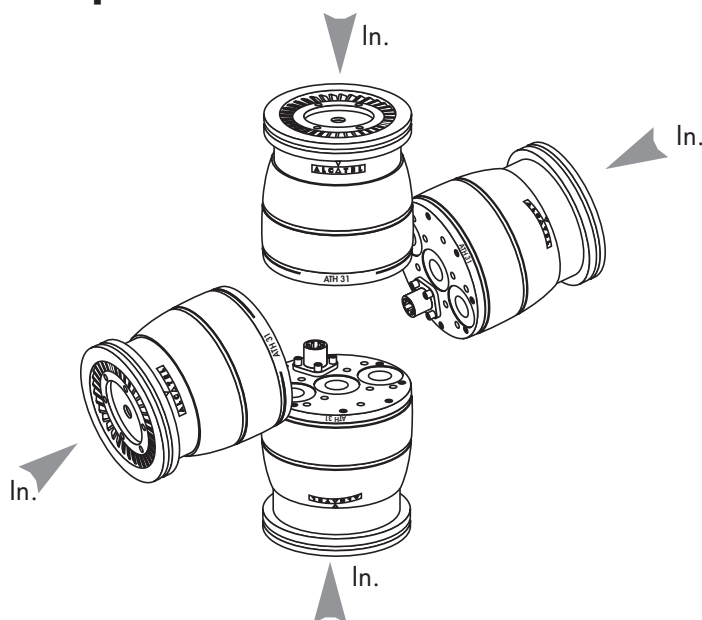


Pump connection to an installation

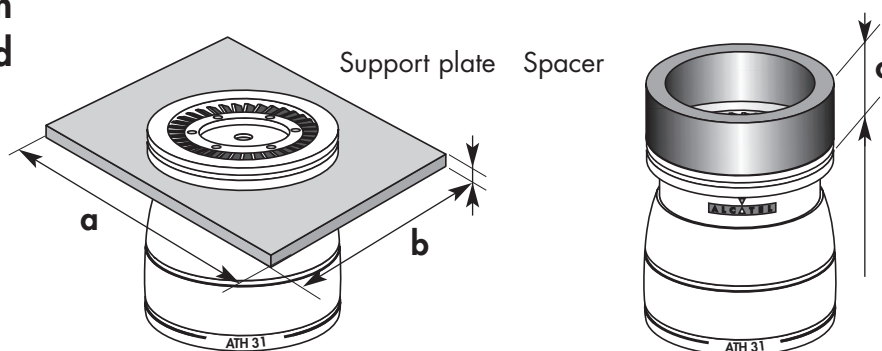
The pump can operate in any position



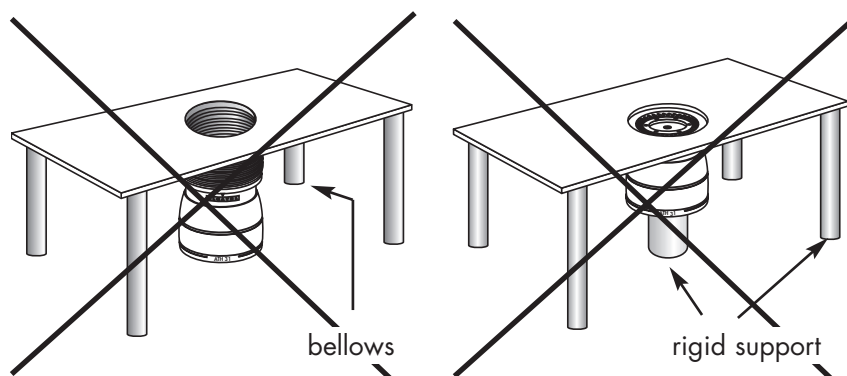
The connection of the pump to the installation must be sufficiently rigid

Reduce the following as much as possible:

- dimensions **a** and **b** and the flexibility of the connection plate;
- the overhang **c** between the pump and its anchor point.



Some examples of unrecommended connection:



The equipment attachment devices should be sufficiently rigid to prevent potential risks in the event of failure of a rotary component or a violent shock on the pump (exceptional phenomena). For this, use the rotary flange attachment holes. If the inlet flange is attached with claw clamps, use 4 claw clamps.

Pump connection to an installation

Cooling recommendations and temperature limits

Ambient operating temperature

Natural convection ATH: $0^{\circ}\text{C} < T < 30^{\circ}\text{C}$;
Air cooled ATH: $0^{\circ}\text{C} < T < 35^{\circ}\text{C}$;
Water cooled ATH: $0^{\circ}\text{C} < T < 50^{\circ}\text{C}$.

Thermal conductivity

The Aluminium ISO inlet housing allows better thermal conductivity than the UHV stainless steel inlet housing. The latter must be cooled with water or air cooling.

Pumping conditions

In cases of high pressure pumping or frequent cycling, the pump temperature is higher, so, water or air cooling are recommended.

Pump connection to an installation

Pump line connections



Remove the protective parts blocking the inlet, exhaust and, if applicable, purge openings; these components prevent foreign bodies from entering the pump during transport and storage. It is dangerous to leave them on the pump in during operation.

Inlet
(Connection **See A60**)

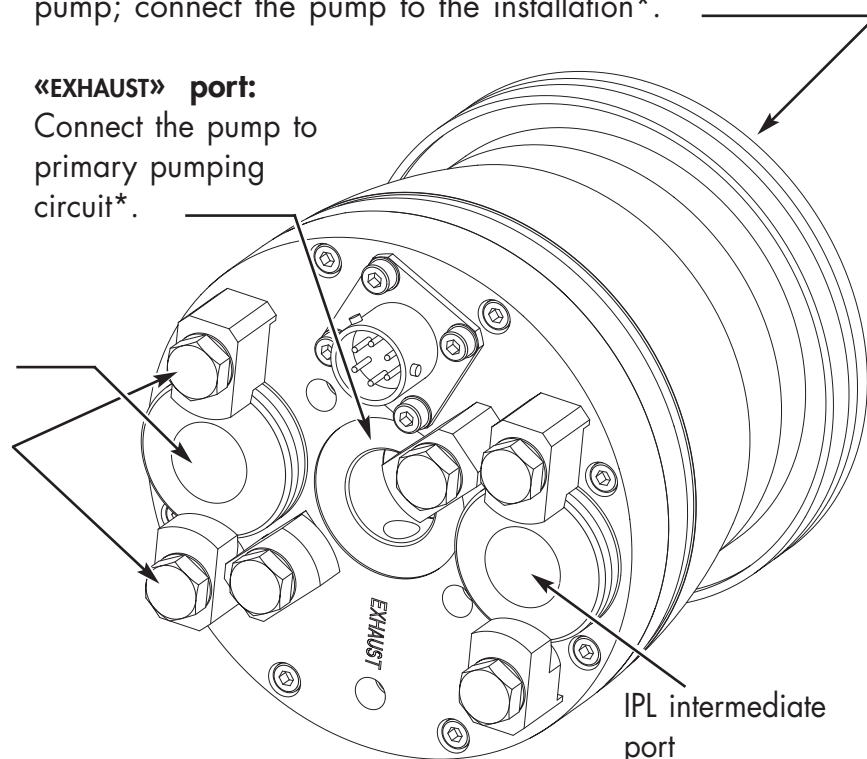
Install the screen filter or compact filter accessory on the pump; connect the pump to the installation*.

Exhaust
(Fitting DN 16 ISO-KF*)

«EXHAUST» port:
Connect the pump to primary pumping circuit*.

IPH intermediate port

Fitting clamps



Example ATH 31+

Intermediate ports
(Fitting DN 16 ISO-KF*)

«IPL» port: Connect the Air inlet valve accessory (**See B 50**) to the pump.

«IPH» port: Connect a vacuum gauge or an intermediate pumping line.

* Different connection accessories can be found in the Alcatel Catalog.