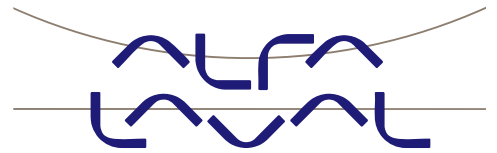


Water Quality



The quality of the water used for CIP is of the utmost importance in order to avoid unwanted deposits on the membranes originating from the water. Especially important is the content of deposit forming components such as iron, manganese, and silicates.

Water used for Alfa Laval membrane based filtration systems must meet the following requirements at any time:

Quality requirements for water:	CIP / flushing	Diafiltration
Iron (Fe)	≤ 0.05 ppm	< 0.02 ppm
Manganese (Mn)	≤ 0.02 ppm	< 0.01 ppm
Silicate (SiO ₂)	≤ 5 ppm	
Hardness	< 20 German degrees	
Particle size	< 1 micron	
Total plate count	< 200 per ml	< 10 per ml
Turbidity	≤ 1 NTU	
Conductivity	> 5 μS/cm	

Quality requirements of water for pump sealings:

Water type	Potable water
------------	---------------

For NF and RO membranes please use non scaling water quality e.g. softened water/RO permeate.

CIP water quality should not exceed any chlorine, pH, or temperature limits set by the specific membrane or spiral element type installed.

CIP water quality should be monitored regularly and a complete water analysis should be made every three to six months or more frequently, if the quality of the water source tends to vary.

How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.

1603EN 0506