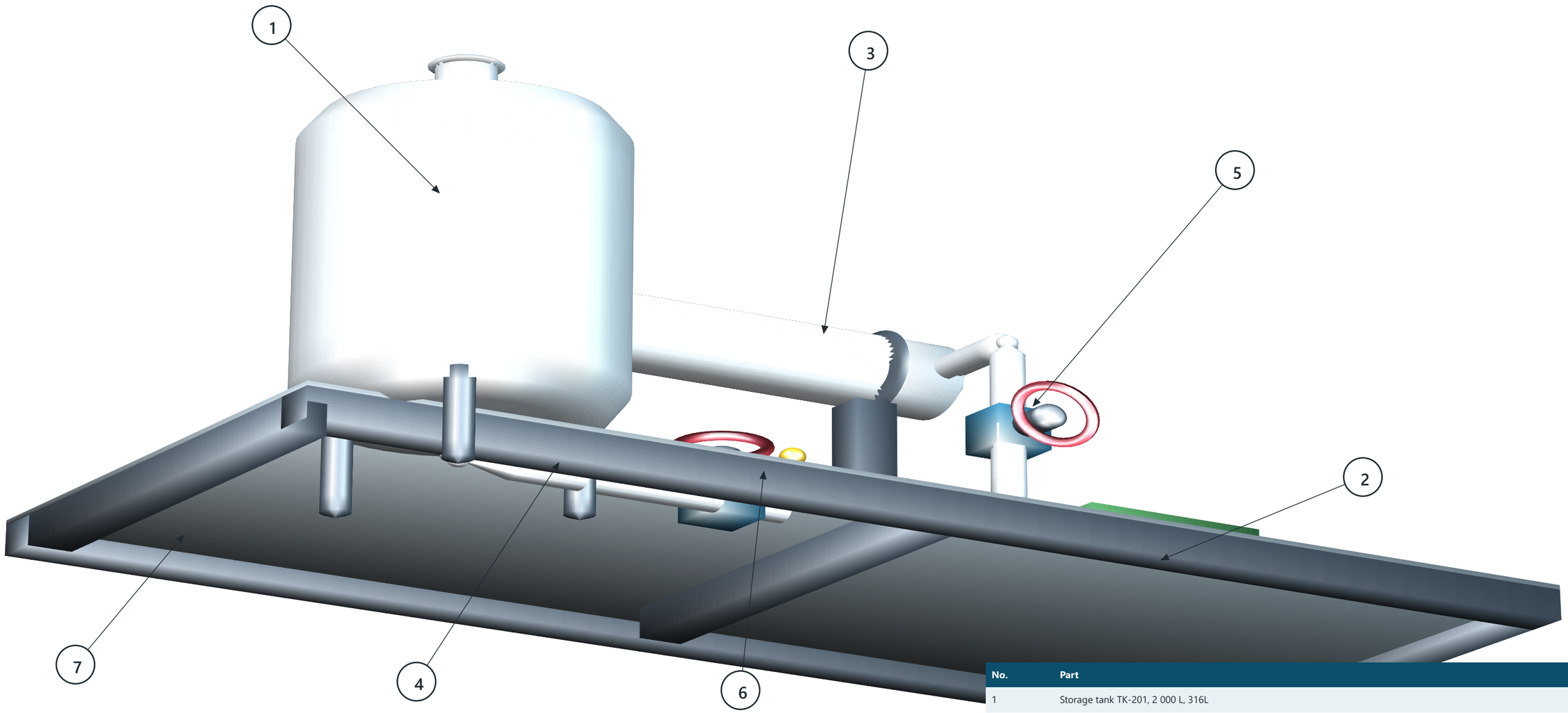
# WFI recirculation skid PS-F7-WFI-02 — 3-D assembly

Native LibreOffice 3-D scene: lathe tank with dished heads, extruded and lathe pipes, cube frames, sphere joints and torus hand-wheels; perspective camera, three lights, Phong shading.




| No. | Part |
|---|---|
| 1 | Storage tank TK-201, 2 000 L, 316L |
| 2 | Recirculation pump P-201 |
| 3 | Heat exchanger E-201 |
| 4 | Valve V-201 (suction) |
| 5 | Valve V-202 (discharge) |
| 6 | Temperature transmitter TT-201 |
| 7 | Skid frame, galvanised |

**NOTES**

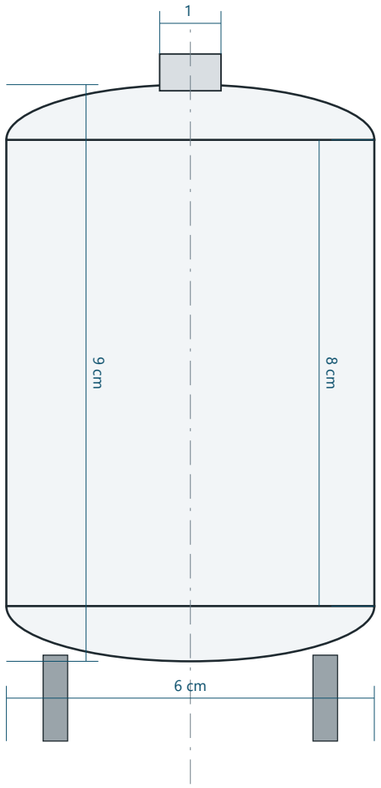
1. All product-contact surfaces 316L, Ra ≤ 0.5 µm, electropolished.
2. Slope all lines ≥ 1 % towards the drain point at V-201.
3. Hand-wheels shown red; valve bodies shown blue for training only.
4. Dimensions in millimetres unless stated. Do not scale the 3-D view.

Halvorsen-Vire Biologics

TITLE: WFI recirculation skid PS-F7-WFI-02 — 3-D assembly view

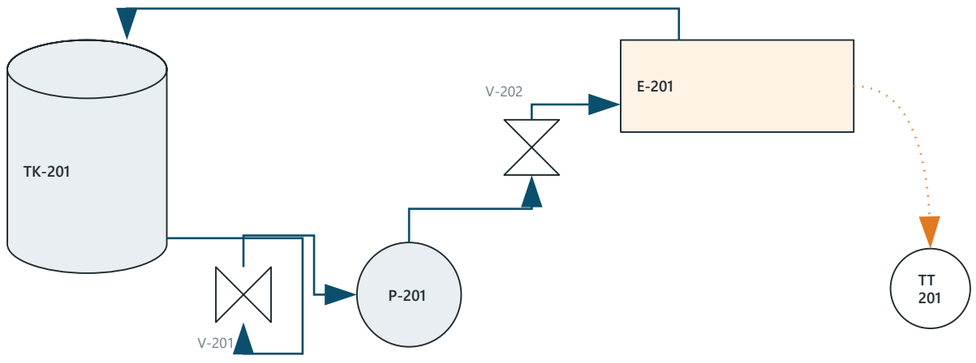
| | |
|---|---|
| DRAWING No. DWG-F7-PS-0207 | REV. C |
| DRAWN T. Eberveld 2026-09-14 | SCALE NTS |
| APPROVED I. Marrow-Quint 2026-09-18 | SHEET 1 of 3 |

# Tank TK-201 — general arrangement




**Design data**
**Volume 2 000 L · design 3.5 barg / FV**
**Temperature −10 to 150 °C**
**Material 316L, Ra ≤ 0.5 µm**
**Insulation 50 mm mineral wool**

## Simplified P&ID — connectors glued to user-defined glue points




**Layers on this sheet**
**Outline · Dimensions · Process · Annotations**
**Construction (not printed): magenta helper lines**

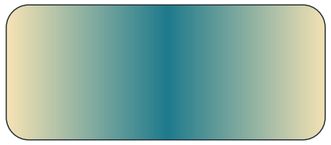
Halvorsen-Vire Biologics

| | |
|---|---|
| TITLE: Tank TK-201 GA and P&ID | |
| DRAWING No.: DWG-F7-PS-0208 | REV.: C |
| DRAWN: T. Eberveld 2026-09-14 | SCALE: NTS |
| APPROVED: I. Marrow-Quint 2026-09-18 | SHEET: 2 of 3 |

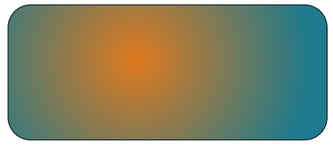
# Fill library and extruded lettering



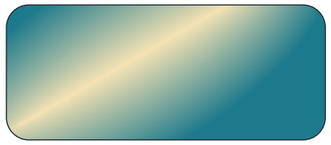
Gradient: linear



Gradient: axial



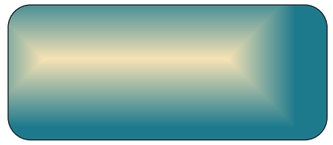
Gradient: radial



Gradient: elliptical



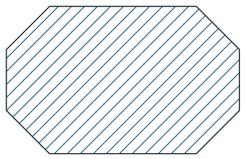
Gradient: square



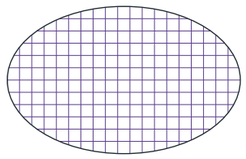
Gradient: rect



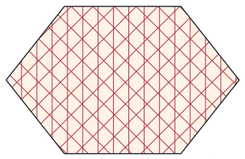
Four-stop gradient (teal → green → gold → red), LibreOffice colour stops



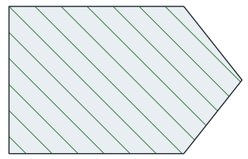
Hatch single



Hatch double



Hatch triple + background



Hatch single + background



Bitmap tiled 18 × 12 mm, row offset 50 %



Bitmap stretched into an ellipse



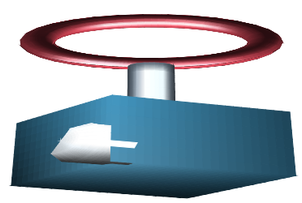
Bitmap with transparency gradient

WFI 80 °C




Fontwork with metal extrusion (left) and inflate Fontwork with perspective extrusion (right)



Text converted with Convert → To 3D (left); valve built from cube, lathe and torus objects (right)

| | | |
|---|---|---|
| Halvorsen-Vire Biologics | TITLE: Fill library and extruded lettering | |
| | DRAWING No.: DWG-F7-PS-0209 | REV.: C |
| | DRAWN: T. Eberveld 2026-09-14 | SCALE: NTS |
| | APPROVED: I. Marrow-Quint 2026-09-18 | SHEET: 3 of 3 |