

# Chemical Development - Kilolab Equipment

## Normal-Pressure Equipment at Solvias

Reactors	No.	Material	Max. Working Volume / Capacity	Temperature Range
70/100 l	5	Glass-lined steel, stainless steel	60 to 90 l	-60 °C to +200 °C
10/30/45 l	13	Glass, glass-lined steel, stainless steel	10 to 40 l	-60 °C to +200 °C

## Assecoires

Type	No.	Material	Max. Working Volume / Capacity	Temperature Range
Extraction Vessel	12	Glass	10 to 100 l	RT
Butt with Stirrer	3	PE	50 to 250 l	0 °C to RT
Rotavapor	12	Glass	10 to 40 l	0 °C to RT
Flash-Chromatography	Several	Glass	up to 20 kg SiO <sub>2</sub>	RT
Thin Film Vaporizer	1	Glass	150 g / h	RT to 300 °C
Drying Oven	Several	Stainless steel	5 kg / batch	RT to 120 °C

## Autoclaves at Solvias

Type	No.	Material	Max. Working Volume	Pressure	Temperature Range
50 l	1	Stainless steel	40 l	75 bar	15 °C to 250 °C
16 l	1	Inconel 686 (Hastelloy C)	13 l	300 bar	-60 °C to +350 °C
8 l	1	Inconel 686 (Hastelloy C)	6 l	300 bar	-60 °C to +350 °C
6.3 l	6	Hastelloy B, Stainless steel, glass-lined steel, Tantalum	4.5 l	300 bar	-60 °C to +350 °C
2.5 l	7	Hastelloy B, Monel 400, Tantalum	1.8 l	300 bar	-60 °C to +350 °C
0.05 to 1 l	>25	Hastelloy B, Inconel 686, Stainless steel, glass-lined steel, Tantalum, Monel 400, glass		300 bar	-60 °C to +350 °C
Parallel Reactors	Several	Glass, stainless steel	10 ml	150 bar	RT to + 220 °C

## Accessories

Type	No.	Material	Max. Working Volume	Pressure	Temperature Range
Filters	several	Stainless steel		20 bar	RT to 100 °C
Dosing pumps	several	Stainless steel, Hastelloy B		300 bar	RT to 100 °C

# Chemical Development - GMP Kilolab

## Equipment

Reactors	No.	Material	Max. Working Volume / Capacity	Temperature Range
30 l	1	Glass-lined steel	30 l	-70 °C to +180 °C
100 l	1	Glass-lined steel	100 lt	-70 °C to +180 °C
16 l	1	Hastelloy C	12 l	RT to 200 °C, 100 bar

## Assecoires

Type	No.	Material	Max. Working Volume / Capacity	Temperature Range
Extraction Vessel	2	Glass	50 to 150 l	RT
Filters	4	Glass, Hastelloy C	5 to 50 l	-20 °C to 160 °C 1 to 6 bar
Rotavapor	2	Glass	20 l	
Laminarflow-Cabin	1	Steel		Class 100'000 acc. US-Fed. Standard 209D

# Chemical Development - HTS-Infrastructure

## Highthroughput Screening Robot integrated Workflow (Symyx)

Equipment	No.	Material	Max. Working Volume / Pressure (H <sub>2</sub> , CO, Syngas)		Temperature Range
Dispense robot	1	-	-	RT - 100 °C	-
96-well plates	4	Glass	0.8 ml	1 - 100 bar	RT - 200 °C
Normal phase, HPLC	1	-	-	-	-
Reversed phase, HPLC	1	-	-	-	-
GC	1	-	-	-	-
Super Critical Fluid Chromatography (SFC)	1	-	-	-	-