





## RoSS.FILL

Scale Overview

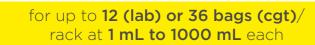
Automated systems. Full modularity. Highest flexibility.

## RoSS.FILL

# Scale Overview\* Fill & Filtration









Filling of small single-use bags for clinical studies and cell & gene therapies

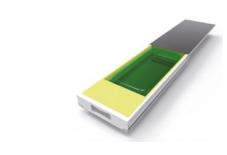
### Large Volumes (1 L - 1000 L+)



BAG

at 1 L to 20 L each

## for up to **20 bags/**rack



Fully automated bulk drug substance handling with 20 individual weighing scales



BASE

## for up to **20 containers** up to **3000 kg** gross



Commercialized bulk drug substance process

### BOTTLE



BOTTLE

### for single-use bottles up to 10L



Hybrid control unit with bottle rack for easy transition to single-use bags

\*Only standard configurations are shown. On request, parameters such as max. racks to be connected, pump or pump head, bag sizes, the number of valves or the racks can be customized.

#### **ONE CONTROL UNIT - SEVERAL OPTIONS**



Ross.FILL offers full flexibility thanks to its **modular design**. The platform's control unit is compatible with various filling racks and can therefore be used universally for filling single-use bags and bottles in all available sizes and from all manufacturers.

It is even possible to

- attach multiple racks: increasing the batch volumes for commercialized production as requested
- perform continuous filling due to alternating filling racks: increased efficiency through unlimited batch volume filling

## **Ross.FILL Standard Configurations**

**RoSS.FILL CGT** 

**TECHNICAL SPECIFICATIONS\*** 

GENERAL INFORMATION	RoSS.FILL Lab Scale	36 valves	64 valves	RoSS.FILL Bag	1500kg	3000kg	RoSS.FILL Bottle
Field of use	Clinical studies / cell & gene therapies / seed train intensification / low volume BDS	Clinical studies / cell seed train inte low volun	ensification /	BDS handling		ommercialized BDS / es, any container	BDS handling
Primary packaging	2D single-use bags	2D single-u	use bags	2D single-use bags		e bags, 3D single-use oveable racks etc.)	bottles
VOLUMES SPEED QUANTITIE	:S						
Bags per rack (valve tower)	12	36	64	20		10	up to 24
Max. number of racks (valve towers)	0	2	2	2		2	up to 2
Max. bags total	12	72	128	40		20	up to 48
Volume or weight per bag	1 to 1000 mL	1 to 1000 mL	1 to 250 mL	1 to 20L	1 to 1500 kg (gross)	1 to 3000 kg (gross)	up to 10 L
Max. volume or weight total (per system run)	12 L	72 L	32 L	800 L	1500 kg (gross)	3000 kg (gross)	up to 320 L
Filling speed	12 x 1000 mL in 0.5 h (24 L/h)	36 x 1000 mL in 1 h (36 L/h)	64 x 250 mL in 0.75 h (21 L/h)	20 x 16 L in 3 h (105 L/h)	20 x 50 L in 4 h (250 L/h)	20 x 50 L in 4 h (250 L/h)	16 x 10 L in 40 minutes (240 L/h
ACCURACY  Accuracy gravimetric	±2 g (10 - 500 mL) / ±5 g (500 - 1000 mL)	±2 g (10 - 500 mL) / ±	5 g (500 - 1000 mL)	±20 g (0.2 kg - 5 kg)	±10	00 g	±10 g
Accuracy flow sensor	±20 % (1 - 5 mL) / ±10 % (6 - 20 mL)	±20 % (1 - 5 mL) / ±	±10 % (6 - 20 mL)	±25 g (5 kg - 20 kg) not available	not available		not available
Reading	1g	1 g		1 g	50 g	50 g	1 g
Weighing Class	OIML R60 class C3	OIML R60		OIML R60 class C3	OIML R60 class C3		OIML R60 class C3
VALVE SET UP							
Valves per rack (tower)	12+1	36+2	64+2	20+1	10+1		up to 24
Actuation type	Electric	Elect	tric	Electric	Electric		Electric
Pinch function	Included	Includ	ded	Included	Included		Included
Stepper function	Included	Includ	Included Upgrade Included		luded	Upgrade	
Sealer function	Included	Includ	Included Upgrade Upgr		grade	Upgrade	
Perforation function	Included	Includ	ded	Upgrade	Upgrade		Upgrade
Bubble sensors per rack	1	2		1		1	1

<sup>\*</sup> The specified values refer to the standard version; customized changes are possible on request

**RoSS.FILL Base** 

# **Ross.FILL Standard Configurations**

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MANIFOLD SET UP	RoSS.FILL Lab Scale	36 valves	64 valves	RoSS.FILL Bag	1500kg	3000kg	RoSS.FILL Bottle
Max. Pump tubing OD	3/8"	5/8"	·	5/8"	5/8	, (i	5/8"

Main Manifold OD	3/8"	3/8"	3/8"	5/8"	3/8"
Bag Branches OD	1/4"	1/4"	3/8"	5/8"	3/8"
Manifold Supply	Single I Isa Support + all other yanders	Single Use Support + all other yenders	Single Use Support + all other yenders	Single Use Support + all other yenders	Single Use Support + all other venders

#### **DIMENSIONS & WEIGHT (EXCLUDING CU)**

Dimensions (LxWxH)	1000 x896 x1671 mm 39.370 x 35.276 x 65.787"	1717 x 770 x 1617 mm / 67.598 x 30.315 x 63.661"	2317 x 770 x 1617 mm / 91,220 x 30,315 x 63,661"	1789 x 932 x 1841 mm 70.433 x 36.693 x 72.480"	1882 (+250)x 1920 x 1477 mm / 74.094 (+9.843) x 75.590 x 58.150"	1882 (+250) x 1920 x 1777 mm / 74.094 (+9.843) x 75.590 x 69.960"	2084 x 843 x 1565 mm 82.047 x 33.189 x 61.614"
Weight	280 kg	420 kg	690 kg	675 kg	280 kg	435 kg	410 kg

#### **CU SPECIFICATIONS**

Pump	Watson Marlow 314 DW	Watson Marlow 630	Watson Marlow 630	Watson Marlow 630	Watson Marlow 630
Max. pump speed	350 mL/min (1/8"ID) / 1224 mL/min (1/4"ID)	7200 mL/min (3/8" ID)			
Flow sensor	Upgrade	Upgrade	Not available	Not available	Not available
Sample scale	No	Yes	Yes	Yes	Yes
Label printer	Included	Included	Included	Included	Included
Provision for filter	Included	Included	Included	Included	Included

#### **VARIOUS**

Designed in accordance with	ASME / CE / UL /ASME-BPE / cGMP / 21 CFR Part 11	ASME / CE / UL /ASME-BPE / cGMP / 21 CFR Part 11	ASME / CE / UL /ASME-BPE / cGMP / 21 CFR Part 11	ASME / CE / UL /ASME-BPE / cGMP / 21 CFR Part 11	ASME / CE / UL /ASME-BPE / cGMP / 21 CFR Part 11
Electrical power supply	230V 50Hz / 115V 60Hz				
Available as I/O	Yes	Yes	Yes	Yes	Yes
Control system manufacturer	Siemens S7 / Delta V / PCS 7	Siemens S7 / Delta V / PCS 7	Siemens S7 / Delta V / PCS 7	Siemens S7 / Delta V / PCS 7	Siemens S7 / Delta V / PCS 7
Communication	OPC UA interface available				
Mobile system	Yes	Yes	Yes	CU-yes / Scale-no	Yes

DOSS EILL Base