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Data Sheet

Bagento single-use bioreactor bags



Description

Single-use bioreactor bags are being adopted across all stages of the biopharmaceutical industry, from laboratory R&D and small-scale production to pilot and commercial manufacturing. Driven by the growing market demand for single-use bioreactors in biopharmaceuticals, Morimatsu Lifesciences has launched disposable bioreactor bags specifically designed for upstream applications such as cell therapy, antibody seed expansion, and vaccine production.

These bags are compatible with bottom-mounted magnetic-drive Bagento bioreactors, with available volumes ranging from 50 to 2000 L. Manufactured in C+A-grade cleanrooms, they feature customizable geometry and port configurations, while strict lifecycle quality control ensures consistent, reliable performance.

Equipment specifications	50 L	200 L	500 L	1000 L	2000 L
Stirring speed (rpm)	0 – 200	0 – 200	0 – 140	0 – 120	0 – 115
Basic model	●	●	●	●	●
Disposable electrodes	○	○	○	○	○
Perfusion culture mode	○	○	○	○	○

● = The default option is the basic model
○ = Disposable electrodes and perfusion components should be selected based on the customer's process requirements

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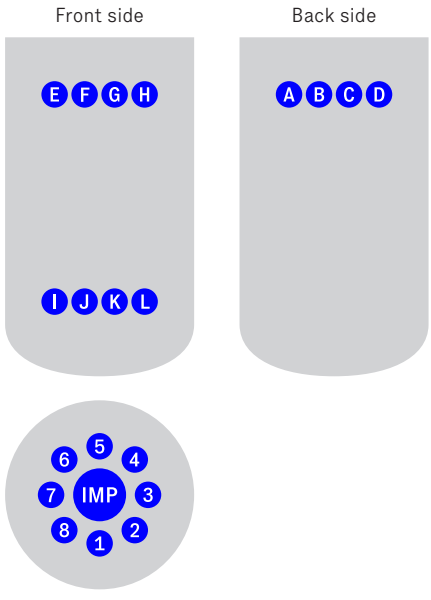
Product data	50 L	200 L	500 L	1000 L	2000 L
Specifications	Can be customized to suit various specifications				
Operating temperature	-80 °C (minimum) to +60 °C				
Sterilization	Gamma irradiation (25 – 40 kGy)				
Packaging	Double-layered PE bag, vacuum packed				
Structure	LDPE / EVOH / ULDPE (liquid contact layer)				
Thickness	0.325 mm				
Compliance	ISO 10993-4: Hemolysis test				
	ISO 10993-5: Cytotoxicity				
	ISO 10993-6: Implantation test				
	ISO 10993-10: Irritation and sensitization tests				
	ISO 10993-11: Acute systemic toxicity test				
	USP<85>: Bacterial endotoxins-LAL test				
	USP<88>: Biological reactivity testing, in vivo, class VI				
	USP<661>: Plastic containers				
	European Pharmacopoeia tests: Ch.3.1.5				
	ADCF: Animal-derived component free				

Single-use bioreactor bags (Basic model)

50 L

Product No.	CY-0050A1
Tube A G H	Fluid inlet: 1/4" × 7/16" C-Flex 374, 1/8" × 1/4" C-Flex 374, tube clamp, plug
Tube B D	Fluid inlet: 1/4" × 7/16" C-Flex 374, tube clamp, plug
Tube C	Top air outlet: 1/2" × 3/4" C-Flex 374, air filter
Tube E	Fluid inlet: 3/8" × 5/8" C-Flex 374, tube clamp, plug
Tube F	Top air inlet: Pressure sensor, air filter, 1/4" × 7/16" C-Flex 374, air hose connector, tube clamp
Tube I	Temperature monitoring: 1/4" thermowell
Tube J K	pH/DO monitoring: pH/DO sensor sleeve
Tube L	Sampling: 1/8" × 1/4" C-Flex 374, luer sampling component, tube clamp (×2)
Tube 1 3 7	Liquid outlet: 3/8" × 5/8" C-Flex 374, tube clamp, plug
Tube 2 5	2 µm and 20 µm sintered plates, 1/4" × 7/16" C-Flex 374, one-way valve, air filter, air hose connector, tube clamp
Tube 4 6 8	2 µm sintered plates (×3), 1/4" × 7/16" C-Flex 374, one-way valve, air filter, air hose connector, tube clamp

Culture bag schematic

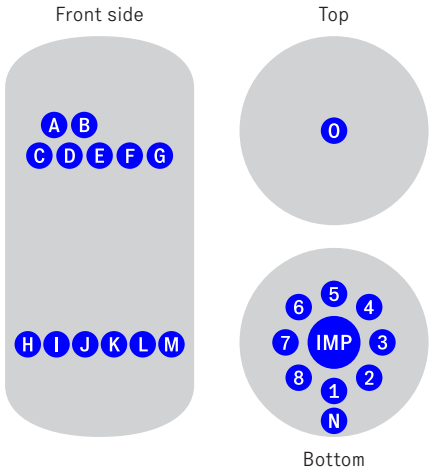


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200 L

Product No.	CY-0200A1
Tube A B	Fluid inlet: 1/4" × 7/16" C-Flex 374, 1/8" × 1/4" C-Flex 374, tube clamp, plug
Tube C D F	Fluid inlet: 1/2" × 3/4" C-Flex 374, tube clamp, plug
Tube E	Top air inlet: Pressure sensor, air filter, 1/4" × 7/16" C-Flex 374, air hose connector, tube clamp
Tube G	Fluid inlet: 1/2" × 3/4" C-Flex 374, tube clamp, plug
Tube H	Sampling: 1/8" × 1/4" C-Flex 374, luer sampling component, tube clamp (×2)
Tube I J K L	pH/DO monitoring: pH/DO sensor sleeve
Tube M	Temperature monitoring: 1/4" thermowell
Tube N	Liquid outlet: 1/2" × 3/4" C-Flex 374, tube clamp, plug
Tube O	Top air outlet: 3/4" × 1" C-Flex 374, air filter
Vent ports 1 5	2 µm sintered plate (solid), 1/4" × 7/16" C-Flex 374, air filter, air hose connector, tube clamp
Vent ports 2 6	2 µm sintered plate (5 × 1 mm holes), 1/4" × 7/16" C-Flex 374, air filter, air hose connector, tube clamp
Vent ports 3 7	20 µm sintered plate (solid), 1/4" × 7/16" C-Flex 374, air filter, air hose connector, tube clamp
Vent ports 4 8	20 µm sintered plate (5 × 0.5 mm holes), 1/4" × 7/16" C-Flex 374, air filter, air hose connector, tube clamp

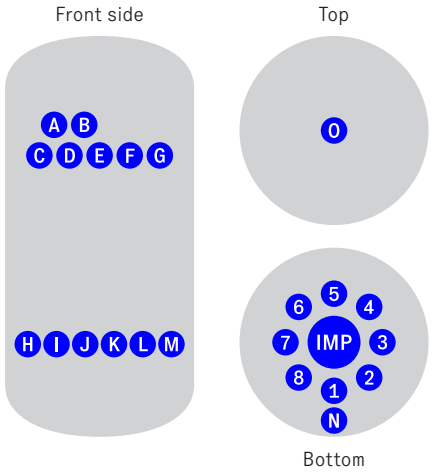
Culture bag schematic



500 L

Product No.	CY-0500A1
Tube A B	Fluid inlet: 1/4" × 7/16" C-Flex 374, 1/8" × 1/4" C-Flex 374, tube clamp, plug
Tube C D F	Fluid inlet: 1/2" × 3/4" in C-Flex 374, tube clamp, plug
Tube E	Top air inlet: Pressure sensor, air filter, 1/4" × 7/16" C-Flex 374, air hose connector, tube clamp
Tube G	Fluid inlet: 1/2" × 3/4" C-Flex 374, tube clamp, plug
Tube H	Sampling: 1/8" × 1/4" C-Flex 374, luer sampling component, tube clamp (×2)
Tube I J K L	pH/DO monitoring: pH/DO sensor sleeve
Tube M	Temperature monitoring: 1/4" thermowell
Tube N	Liquid outlet: 1/2" × 3/4" C-Flex 374, tube clamp, plug
Tube O	Top air outlet: 3/4" × 1" C-Flex 374, air filter
Vent ports 1 5	2 µm sintered plate (5 × 1 mm holes), 1/4" × 7/16" C-Flex 374, one-way valve, air filter, air hose connector, tube clamp
Vent ports 2 3 4 6 7 8	20 µm sintered plate (solid), 1/4" × 7/16" C-Flex 374, one-way valve, air filter, air hose connector, tube clamp

Culture bag schematic

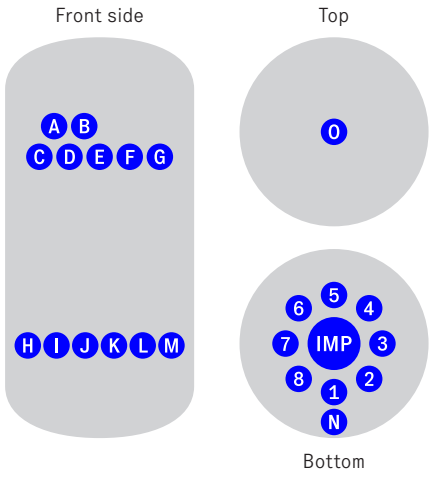


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1000 L

Product No.	CY-1000A1
Tube A B	Fluid inlet: 1/4" × 7/16" C-Flex 374, 1/8" × 1/4" C-Flex 374, tube clamp, plug
Tube C D F	Fluid inlet: 1/2" × 3/4" C-Flex 374, tube clamp, plug
Tube E	Top air inlet: Pressure sensor, air filter, 1/4" × 7/16" C-Flex 374, air hose connector, tube clamp
Tube G	Fluid inlet: 1/2" × 3/4" C-Flex 374, tube clamp, plug
Tube H	Sampling: 1/8" × 1/4" C-Flex 374, luer sampling component, tube clamp (×2)
Tube I J K L	pH/DO monitoring: pH/DO sensor sleeve
Tube M	Temperature monitoring: 1/4" thermowell
Tube N	Liquid outlet: 1/2" × 3/4" C-Flex 374, tube clamp, plug
Tube O	Top air outlet: 3/4" × 1" C-Flex 374, air filter
Vent ports 1 5	2 µm sintered plate (5 × 1 mm holes), 1/4" × 7/16" C-Flex 374, one-way valve, air filter, air hose connector, tube clamp
Vent ports 2 3 4 6 7 8	20 µm sintered plate (solid), 1/4" × 7/16" C-Flex 374, one-way valve, air filter, air hose connector, tube clamp

Culture bag schematic



2000 L

Product No.	CY-2000A1
Tube A B	Fluid inlet: 1/4" × 7/16" C-Flex 374, 1/8" × 1/4" C-Flex 374, tube clamp, plug
Tube C D F	Fluid inlet: 1/2" × 3/4" C-Flex 374, tube clamp, plug
Tube E	Top air inlet: Pressure sensor, air filter, 1/4" × 7/16" C-Flex 374, air hose connector, tube clamp
Tube G	Fluid inlet: 1/2" × 3/4" C-Flex 374, tube clamp, plug
Tube H	Sampling: 1/8" × 1/4" C-Flex 374, luer sampling component, tube clamp (×2)
Tube I J K L	pH/DO monitoring: pH/DO sensor sleeve
Tube M	Temperature monitoring: 1/4" thermowell
Tube N	Liquid outlet: 1/2" × 3/4" C-Flex 374, tube clamp, plug
Tube O	Top air outlet: 3/4" × 1" C-Flex 374, air filter
Vent ports 1 2 3 4 5 6 7 8	All vent ports are equipped with a 20 µm sintered plate, 1/4" × 7/16" C-Flex 374, one-way valve, air filter, air hose connector, tube clamp

Culture bag schematic

