

Vessels designed for long term storage of biological samples in straws or cryo-vials (medical – human)



## GT line for extended holding time (Ø neck ≤ 50 mm)



### Main characteristics include

- ▶ Aluminum vessels for both the long holding time and large capacity GT lines:
  - Long holding time (Ø neck ≤ 50 mm)
  - large capacity (Ø neck ≥ 80 mm)
- ▶ Light weight and resistant
- ▶ High quality polyurethane paint
- ▶ 14 different models

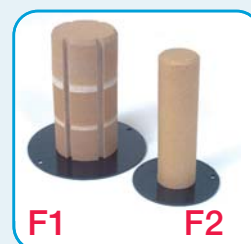
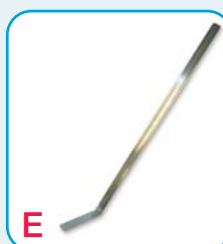
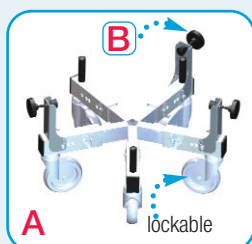
Carrying strap for GT2



- ▶ Maximum storage – 16,400 straws or 1,200 cryo-vials
- ▶ Vessels comply with the EC Medical Directive 93/42 EEC
- ▶ Level and temperature indicators on the NATAL 40
- ▶ Static holding time up to 350 days
- ▶ Plastic or stainless steel canisters
- ▶ Anti-float system for straws stored in plastic canisters
- ▶ Plastic level rod for measuring the liquid nitrogen level
- ▶ 6 year guarantee on the vacuum

### Accessories

- A:** Roller base
- B:** Fixation kit for the roller base
- C:** Plastic goblet
- D:** Cryo-vial cane
- E:** Stainless steel lifter for goblets
- F1:** Lid for GTs with stainless steel canisters
- F2:** Lid for GTs with plastic canisters
- G:** Plastic level rod (included with GT except GT2)





Application areas include:  
Life sciences, insemination centers,  
egg and sperm banks, IVF,  
pharmaceutical labs...

## GT large capacity ( $\varnothing$ neck $\geq 80$ mm)



The NATAL 40 is equipped with  
level and temperature indicator  
gauges and a RS485 connection  
box for traceability of recorded  
data.



Canister organization groove system  
in the upper part of the GT neck  
(canister organization system is  
standard on all GT 14 / 6, 18, 26,  
38, 40 and NATAL).



The GTs (except the  
GT 2) can be closed  
with a security lock on  
the lid (the security  
lock is not included)



Easy to identify number and color  
code on the canisters in the long  
holding time GT 3, 9, 11, 21  
and 35



# GT – for Animal Insemination

Vessels designed for storage and shipping of biological samples in straws or cryo-vials (veterinary – animal)



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GT line for extended holding time  
(Ø neck ≤ 50 mm)



- ▶ Maximum storage 16,400 straws
- ▶ The GT line complies to international regulations for the transportation of dangerous materials by land, air, rail and water.
- ▶ Static holding time up to 350 days
- ▶ Plastic or stainless steel canisters with 1 or 2 levels
- ▶ Anti-float system for straws stored in plastic canisters
- ▶ Plastic level rod for measuring the liquid nitrogen level
- ▶ 6 year guarantee on the vacuum



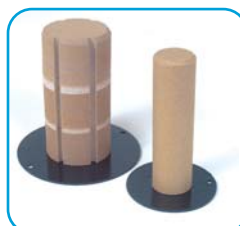
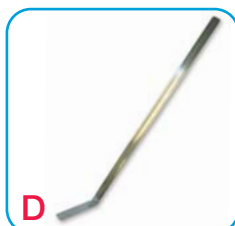
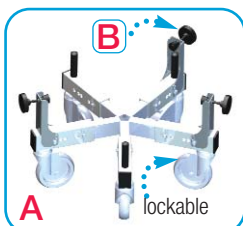
## Main characteristics include

- ▶ Aluminum vessels for both the long holding time and large capacity GT lines:
  - Long holding time (Ø neck ≤ 50 mm)
  - large capacity (Ø neck ≥ 80 mm)
- ▶ Light weight and resistant
- ▶ High quality polyurethane paint
- ▶ 14 different models



## Accessories

- |  |   |
|--|---|
| <b>A:</b> Roller base                        | <b>E1:</b> Lid for GTs with stainless steel canisters             |
| <b>B:</b> Fixation kit for the roller base   | <b>E2:</b> Lid for GTs with plastic canisters                     |
| <b>C:</b> Plastic goblet                     | <b>F:</b> Plastic level rod (included with GT / NATAL except GT2) |
| <b>D:</b> Stainless steel lifter for goblets |   |





## Animal Insemination

### GT large capacity ( $\varnothing$ neck $\geq 80$ mm)



The GTs (except the GT 2) can be closed with a security lock on the lid (the security lock is not included)

Canister organization groove system in the upper part of the GT neck (canister organization system is standard on all GT 14 / 6, 18, 26, 38, 40 and NATAL



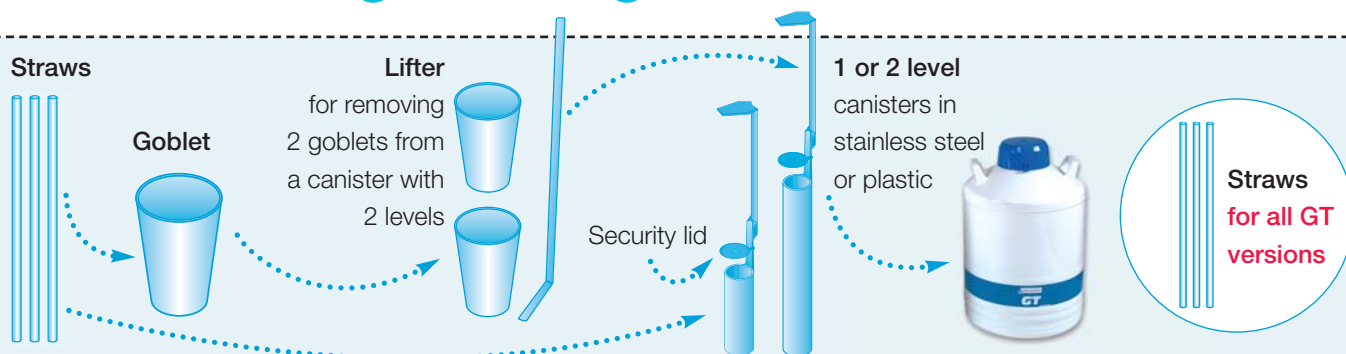
Easy to identify number and color code on the canisters in the long holding time GT 3, 9, 11, 21 et 35



The security lid is standard on the GT line, for options see accessories; only available for GT 3, 9, 11, 21 and 35



# GT 2 – 35 long holding time – straws / vials



## Long holding time ( $\emptyset$ neck $\leq 50$ mm)

		GT 2	GT 3	GT 9	GT 11	GT 21	GT 35
<b>CHARACTERISTICS</b>							
Liquid capacity	l	2	3.7	9.3	12.2	21.5	33.6
Diameter of neck	mm	30	50	50	50	50	50
Weight empty	kg	1.9	4.5	8.2	9.2	13	15
Canisters can be identified and organized from the support on the top of the neck of the GT							
Weight full	kg	3.5	7.5	15.7	19	30.4	43
External diameter	mm	174	248	358	308	388	468
Total height	mm	392	405	450	630	660	660
Daily evaporation rate	l/d <sup>1)</sup>	0.08	0.11	0.11	0.09	0.09	0.09
Static holding time	d	25	33	84	130	225	350
Dynamic holding time	d <sup>2)</sup>	15	21	50	80	140	219
Number of canisters		3	6	6	6	6	6
<b>STORAGE CAPACITY AND TYPE OD CANISTERS</b>							
Plastic		✓	✓	✓	✓	✓	✓
Stainless steel		–	✓	✓	✓	✓	✓
Diameter of canisters	mm	26	38	38	38	38	38
Height of canisters	mm	120	120	120	120 or 280	120 or 280	120 or 280
Number of level of goblets <sup>3)</sup>		1	1	1	1 or 2	1 or 2	1 or 2
Max. capacity of 0.25 ml straws		330	1,560	1,560	1,560/2,400	1,560/2,400	1,560/2,400
Max. capacity of 0.5 ml straws		150	720	720	720/1,200	720/1,200	720/1,200
Capacity of CBS™ straws (0.3 et 0.5 ml)		100	460	460	460/780	460/780	460/780
CTotal capacity of 2 ml cryo-vials (on canes in canisters with 2 levels)		–	–	–	180	180	180
<b>PRODUCT REFERENCES</b>							
GT with							
canisters – plastic and 1 level		GT2-1	GT3-1	GT9-1	GT11-1	GT21-1	GT35-1
canisters – stainless steel and 1 level		–	GT3-2	GT9-2	GT11-2	GT21-2	GT35-2
canisters – stainless steel 2 levels		–	–	–	GT11-3	GT21-3	GT35-3
canisters – plastic and 2 levels		–	–	–	GT11-4	GT21-4	GT35-4
<b>MAIN ACCESSORY REFERENCES</b>							
<b>A:</b> Roller base		–	–	–	–	ACC-ALU-29	
<b>B:</b> Fixation kit for the roller base (3 parts)		–	–	–	–	ACC-ALU-32	
<b>C:</b> Goblet $\emptyset$ 35 mm (20 per batch)		–	–	–	–	ACC-BOXTUBE-300	
<b>D:</b> Canes for cryo-vials (10 per batch)		–	–	–	–	ACC-BOXTUBE-411	
<b>E:</b> Lifter (for canister with 2 levels)		–	–	–	–	ACC-BOXTUBE-405	
<b>F1:</b> Lid for GTs with stainless steel canisters		–	ACC-GT-2	–	–	ACC-GT-1	
<b>F2:</b> Lid for GTs with plastic canisters		ACC-ALU-18	ACC-GT-4	–	–	ACC-GT-5	
<b>G:</b> Plastic level rod		–	–	–	–	ACC-GT-103	

1) Daily evaporation and static holding time are given for the following conditions: 20°C, 1 013 mb, and vessel is stationary with lid closed. These are nominal values and may vary according to the history of the vessel and the manufacturing tolerances.

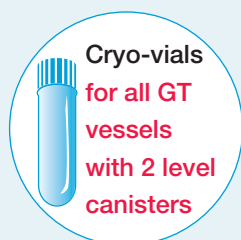
2) Indicative value may vary greatly based on the time the vessel did not have its lid closed.

3) Canister 1 level: number of straws stored loose.

Canister 2 levels: number of straws stored loose in goblet.



# GT 14 – 40 large capacity – Straws / Vials



Cryo-vials



Canes<sup>1)</sup>



Security lid  
(only available  
on plastic  
canisters)

2 level  
canisters in  
stainless steel  
or plastic



## GT large capacity (Ø neck ≥ 80 mm)

		GT 14/6	GT 18	GT 26	GT 38	GT 40	NATAL NT
<b>CHARACTERISTICS</b>							
Liquid capacity	l	13.5	17.5	26.7	37	40	40
Diameter of neck	mm	80	80	80	80	120	120
Weight empty	kg	9.5	10.5	14.8	19	24	24
Canisters can be identified and organized from the support grooves in the top of the neck of the GT							
Weight full	kg	20.4	25	36	49	57	57
External diameter	mm	358	308	468	468	468	468
Total height	mm	455	580	460	715	710	710
Daily evaporation rate	l/d <sup>2)</sup>	0.24	0.26	0.29	0.15	0.29	0.29
Static holding time	d	57	69	90	245	140	140
Dynamic holding time	d <sup>3)</sup>	36	43	56	153	88	88
Number of canisters (only stainless steel)		6	6	9	6	10	10
<b>STORAGE CAPACITY AND TYPE OD CANISTERS</b>							
Diameter of canister	mm	67	67	67	67	73	73
Height of canister	mm	120	280	110	280	280	280
Number of level of goblets <sup>4)</sup>		1	2	1	2	2	2
Max. capacity of 0.25 ml straws		4,920	9,840	7,380	9,840	16,400	16,400
Max. capacity of 0.5 ml straws		2,190	4,380	3,285	4,380	7,300	7,300
Capacity of CBS™ straws (0.3 et 0.5 ml)		1,350	2,700	2,025	2,700	4,500	4,500
Total capacity of 2 ml cryo-vials (on canes in canisters with 2 levels)		–	612	–	612	1,200	1,200
Total capacity of 5 ml cryo-vials (on canes in canisters with 2 levels)		–	306	–	306	600	600
Capacity level indicator with alarm		–	–	–	–	–	✓
Digital temperature indicator with alarm		–	–	–	–	–	✓
<b>PRODUCT REFERENCES</b>							
GT with							
1 level canister in stainless steel		GT14-1	–	GT26-1	–	–	
2 level canister in stainless steel		–	GT18-1	–	GT38-1	GT40-1	NATAL40-1
<b>MAIN ACCESSORY REFERENCES</b>							
A: Roller base		–			ACC-ALU-29		
B: Fixation kit for the roller base (3 parts)		–			ACC-ALU-32		
C: Goblet Ø 65 mm (20 per batch)					ACC-BOXTUBE-301		
C1: Goblet perce Ø 65 mm with lid (10 per batch)					ACC-BOXTUBE-415		
C2: Goblet "Marguerite" Ø 65 with lid (5 per batch)					ACC-BOXTUBE-302		
D: Canes for cryo-vials (10 per batch)		–	ACC-BOXTUBE-411	–		ACC-BOXTUBE-411	
E: Lifter (for canister with 2 levels)		–	ACC-BOXTUBE-405	–		ACC-BOXTUBE-405	
F1: Lid for GTs with stainless steel canisters		ACC-GT-6		ACC-GT-8	ACC-GT-9	ACC-GT-3	ACC-GT-3
G: Plastic level rod					ACC-GT-103		

1) Max. 6 2 ml cryo-vials per cane. Max. 3 5 ml cryo-vials per cane.

2) Daily evaporation and static holding time are given for the following conditions: 20°C, 1 013 mb, and vessel is stationary with lid closed.

These are nominal values and may vary according to the history of the vessel and the manufacturing tolerances.

3) Indicative value may vary greatly based on the time the vessel did not have its lid closed.

4) Canister 1 level: number of straws stored loose.

Canister 2 levels: number of straws stored loose in goblet.