

# TP

Self-pressurized (0.5 bar) liquid nitrogen storage and dispensing vessels.



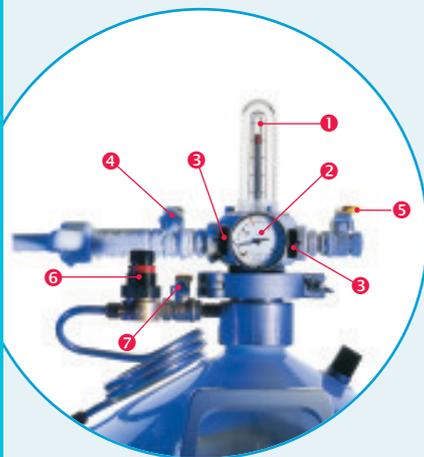
- ▶ Capacity of 35 to 100 litres
- ▶ Self-pressurized vessel
- ▶ Delivered with or without the operating head\*
- ▶ Static holding time up to 75 days
- ▶ 6 year guarantee on the vacuum

### \* Operating head is removable

- 1 Float-type level indicator
- 2 Manometer
- 3 2 safety valves for 0.5 bar
- 4 Dispensing / liquid use valve
- 5 Venting valve

### Self-pressurizing system

- 6 Pressure gauge
- 7 Pressurizing valve



### Main characteristics include

#### Easy to use

- ▶ Direct liquid nitrogen supply with the decanting valve
- ▶ The TP35 can fit easily under a laboratory bench or workstation
- ▶ A hand rail can be easily attached to protect the operating head and make it easier to move the vessel

#### Easy to dispense liquid nitrogen

- ▶ Double valve option for liquid use

**D**

Hand rail **C**

#### Quality

- ▶ Made out of aluminum and composite materials provides for low consumption and light weight
- ▶ High quality polyurethane paint for long life

Flexible hose with dispensing cane **G**

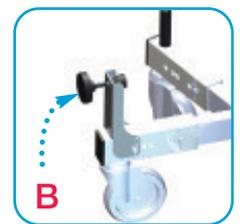
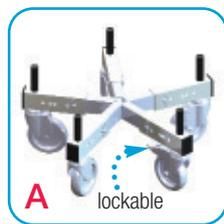
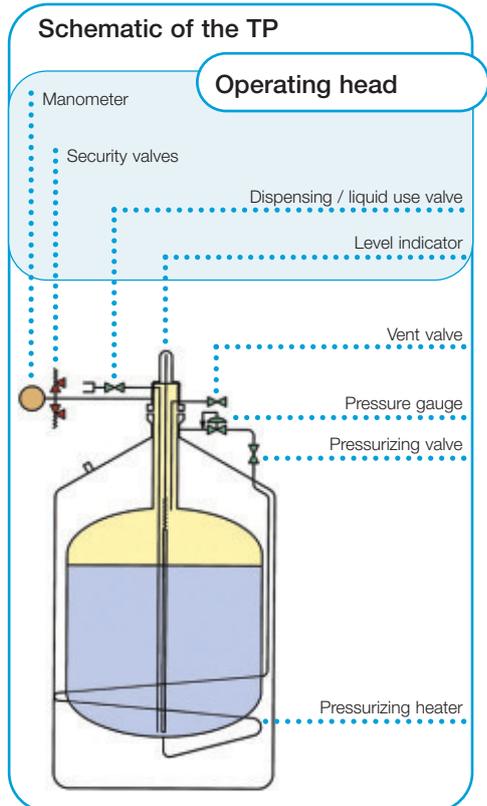


Application areas include:  
Industrial, laboratories, life sciences,  
medical, ...

TP		TP35	TP60	TP100
<b>CHARACTERISTICS</b>				
Liquid capacity	l	35	60	98
Diameter of neck	mm	50	50	50
Static holding time	d <sup>1)</sup>	47	69	100
Daily evaporation rate	l/d <sup>1)</sup>	0,75	0,87	0,98
Weight empty with operating head	kg	19.8	26.4	33.5
Weight full with operating head	kg	48	74.5	113.5
External diameter	mm	468	468	510
Total height with operating head	mm	853	1,080	1,213
Total interior height	mm	580	815	945
Maximum operating pressure in standard bars	bar	0.5	0.5	0.5
Maximum flow rate	l/mn <sup>2)</sup>	2.4 (P=0.5b)	3.5 (P=0.5b)	5.2 (P=0.5b)

<b>PRODUCT REFERENCES</b>			
TP with operating head and pressure regulator	TP35-1	TP60-1	TP100-1
TP without operating head (pressure regulator included)	TP35-2	TP60-2	TP100-2

<b>MAIN ACCESSORY REFERENCES</b>	
<b>A1:</b> Roller base (height: 220 mm)	ACC-ALU-29
<b>A1:</b> Non magnetic roller base (height: 205 mm)	ACC-ALU-31
<b>B:</b> Fixation kit for the roller base (3 parts)	ACC-ALU-32
<b>C:</b> Hand rail	ACC-ALU-21
<b>D:</b> Double dispensing valve	ACC-TP-21
<b>E:</b> Dispensing system with anti-splash nozzle	ACC-TP-17
<b>F:</b> Flexible transfer hose with (DN10) <sup>4)</sup>	1.1 m ACC-FL180180NL-11
Flexible transfer hose with cane (DN10) <sup>3) 4) 5)</sup>	<b>F + G1 ou F + G2</b>
<b>G1:</b> Transfer cane with anti-splash nozzle	ACC-FLTC-2
<b>G2:</b> Transfer cane without anti-splash nozzle	ACC-FLTC-1



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 that can vary greatly in accordance with the filling time of the vessel.  
3) For dispensing liquid nitrogen in Voyageur, GT, Agil, or Arpege vessels – small volumes of nitrogen in non-pressurized vessels

4) The flexible hoses are available in different lengths: 1.5, 2, 3 and 4 meters. If the length = 1.5 m the commercial reference = NL-15. If the length = 2 m the commercial reference = NL-20. If the length = 3 m the commercial reference = NL-30. If the length = 4 m the commercial reference = NL-40.  
5) Available in length from 1.1 – 4 m and for connecting to pressurized vessels or vacuum lines with a maximum of 3 bar.