

## OPTION

# HPi VORTEX

SAFETY INSTRUCTIONS FOR USE AND MAINTENANCE

OPTION N° 04097540NG

EDITION : EN  
REVISION : D  
DATE : 11-2020

Instructions for use

REF : **8694 4618**

*Original instructions*

Thank for the trust you have expressed by purchasing this equipment, which will give you full satisfaction if you follow its instructions for use and maintenance.

Its design, component specifications and workmanship comply with applicable European directives.

Please refer to the enclosed CE declaration to identify the directives applicable to it.

The manufacturer will not be held responsible where items not recommended by themselves are associated with this product.

For your safety, there follows a non-restrictive list of recommendations or requirements, many of which appear in the employment code.

Finally we would ask you kindly to inform your supplier of any error which you may find in this instruction manual.

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## REVISIONS

**REVISION B****07/15**

DESIGNATION	PAGE
Creation in several languages	

**REVISION C****04/19**

DESIGNATION	PAGE
Spare parts To change logos	15

**REVISION D****11/20**

DESIGNATION	PAGE
CPM600wi => CPM PRO INOX	



# A - IDENTIFICATION

Please refer to the documents : 8695 4615 and 8695 4617.



INSTALLATION NERTAJET HPi	
REFERENCE	DESCRIPTION
<b>A</b>	Torch connection box ( <b>BRTi</b> )
<b>B</b>	Gas connection box ( <b>BRGi</b> )
<b>C</b>	Cycle function assembly ( <b>LINCOLN ELECTRIC</b> machine cabinet or process box)
<b>CT</b>	Magnetic torch impact safety system
<b>ET</b>	Torch connector + torch bundle
<b>G</b>	<b>NERTAJET HP 150 HPi</b> power source or <b>NERTAJET HP 300 HPi</b> power source
<b>P</b>	Numerical tool holder ( <b>THDi</b> )
<b>R</b>	Cooling unit
<b>T</b>	<b>CPM400 BLACK</b> torch tip <b>CPM PRO INOX</b> torch tip

## B - SAFETY INSTRUCTIONS

Please refer to the documents :8695 4615 and 8695 4617.

## C - DESCRIPTION

This option makes it possible to add the water vortex cutting function to an independent or integrated **NERTAJET HPi** installation. The **CPM400 BLACK** torch does not allow the use of this option. This function is therefore only available with the **CPM PRO INOX** torch.



The 04097535NG Stainless Steel option is absolutely required for adding this option.

## D - MONTAGE INSTALLATION

### 1 - CONDITIONS OF INSTALLATION

A suitable (sealed) cutting table is absolutely necessary.

Water is absolutely necessary for the use of this installation.

The gas and water pressure conditions are defined in the document 8695 4615.

Flow rate: 2l / min; Pressure: 6 bar



The water used must be demineralised with neutral pH (between 6.5 and 8.3), hardness below 10°F and resistivity above 100 KΩ/cm²/cm. Depending on the characteristics of the water, use either a demineraliser, or a reverse osmosis system or any other deionising system.

### 2 - UNPACKING - HANDLING

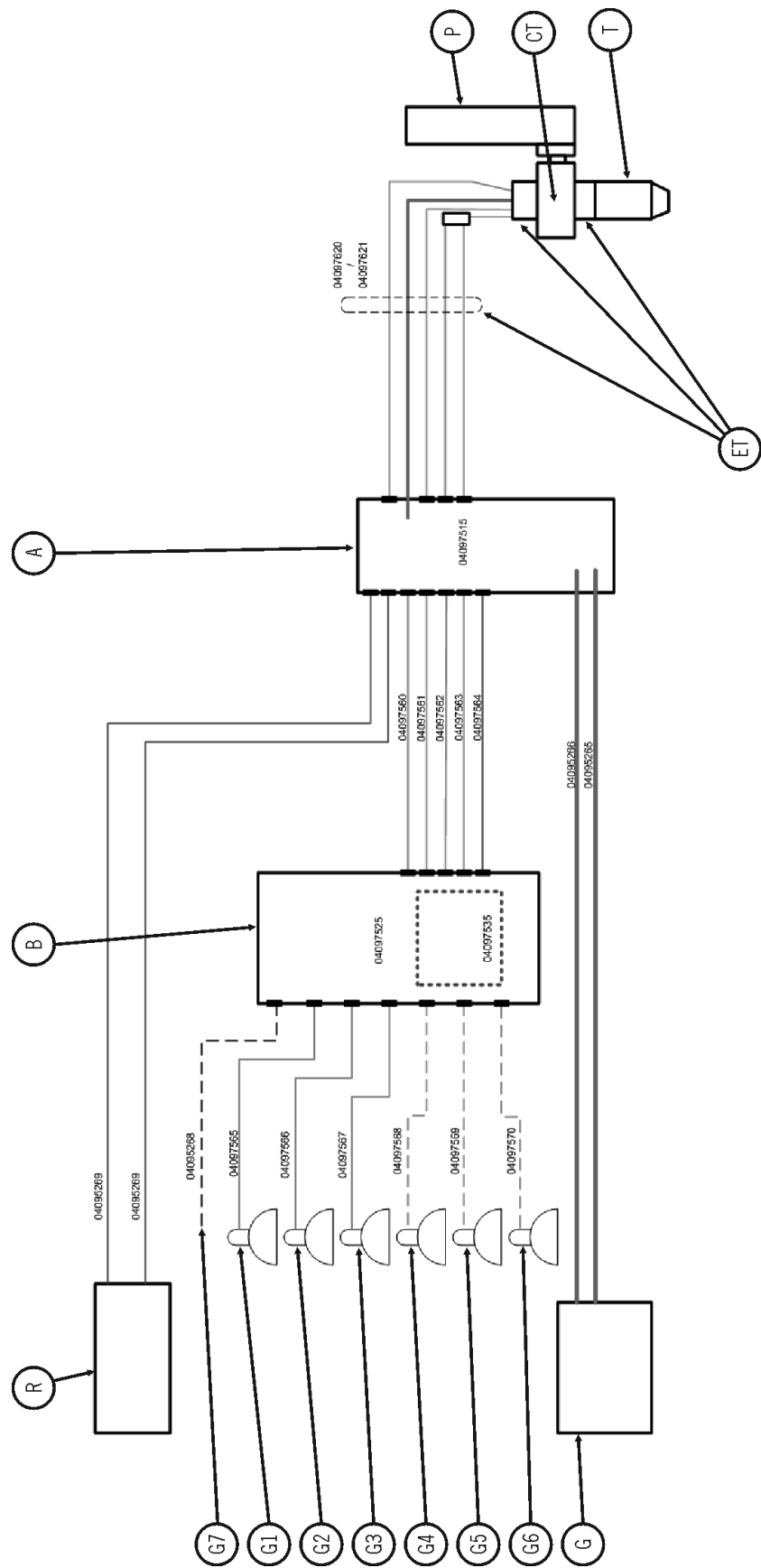
No specific instructions.

### 3 - INSTALLATION

The addition of this option makes it necessary to add a hose at the entry of the **BRGi**, and one between the **BRGi** and **BRTi**, and to modify the **BRTi**.



**3.1 FLUID CONNECTIONS**

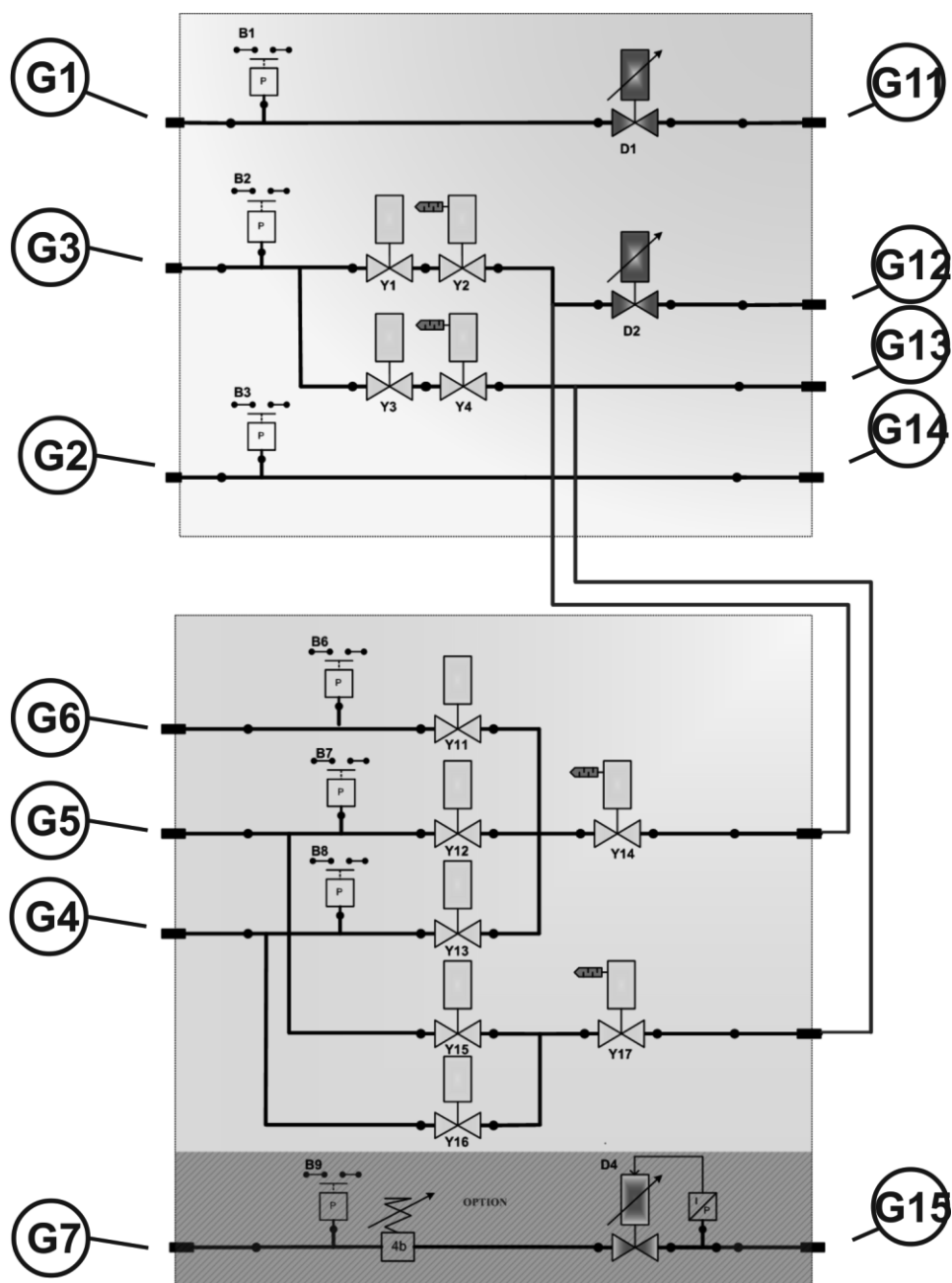


Addition of bundles in blue.

### 3.2 ELECTRICAL CONNECTIONS

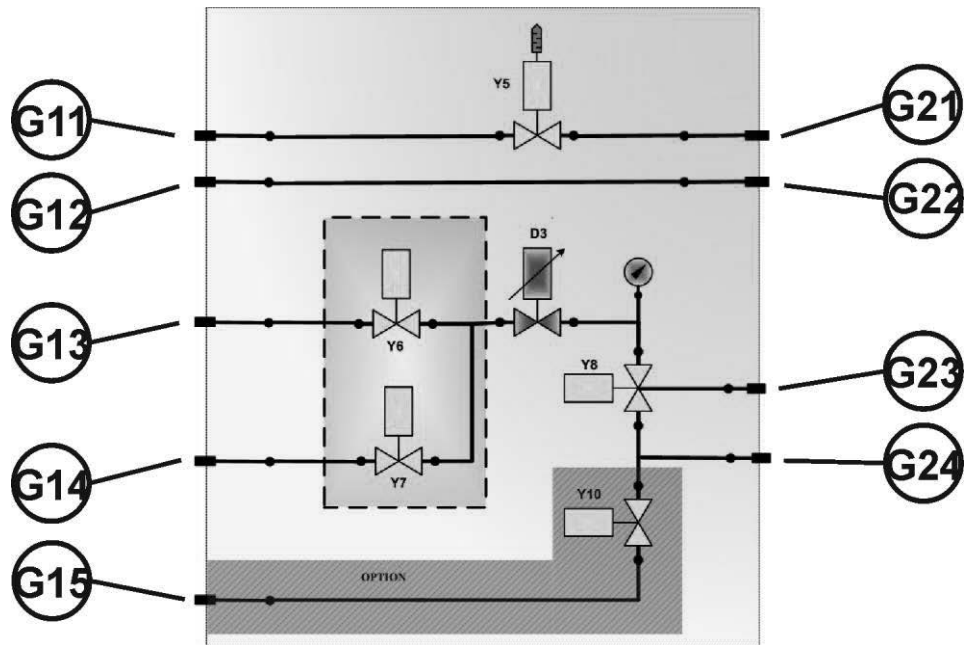
No external difference. The changes are internal to the elements

### 3.3 MODIFICATION OF THE GAS CONNECTION BOX



The part between **G7** and **G15** is added when this option is installed.

### 3.4 MODIFICATION OF TORCH CONNECTION UNIT



The **G15** line is added when this option is installed.

### 3.5 INSTALLING THE TORCH CONNECTOR + TORCH

Please refer to the document

- 8695 4592 => **CPM PRO INOX**

# E - OPERATOR MANUEL

## 1 - SETUP OF INDEPENDENT INSTALLATION

Please refer to the document 8695 4946.

## 2 - SETUP OF INTEGRATED INSTALLATION

Please refer to the document

- 8695 4948 => **HPC DIGITAL PROCESS HPI**
- 8695 4944 => **HPC DIGITAL PROCESS II.**



# F - MAINTENANCE

Se reporter au document 8695 4615.

## 1 - SPARE PARTS

### How to order

The photos or sketches identify nearly every part in a machine or an installation

The descriptive tables include 3 kinds of items:

- those normally held in stock: ✓
- articles not held in stock: ✕
- those available on request: no marks

(For these, we recommend that you send us a copy of the page with the list of parts duly completed. Please specify in the Order column the number of parts desired and indicate the type and the serial number of your equipment.)

For items noted on the photos or sketches but not in the tables, send a copy of the page concerned, highlighting the particular mark.

For example:

		✓	normally in stock
		✕	not in stock
			on request

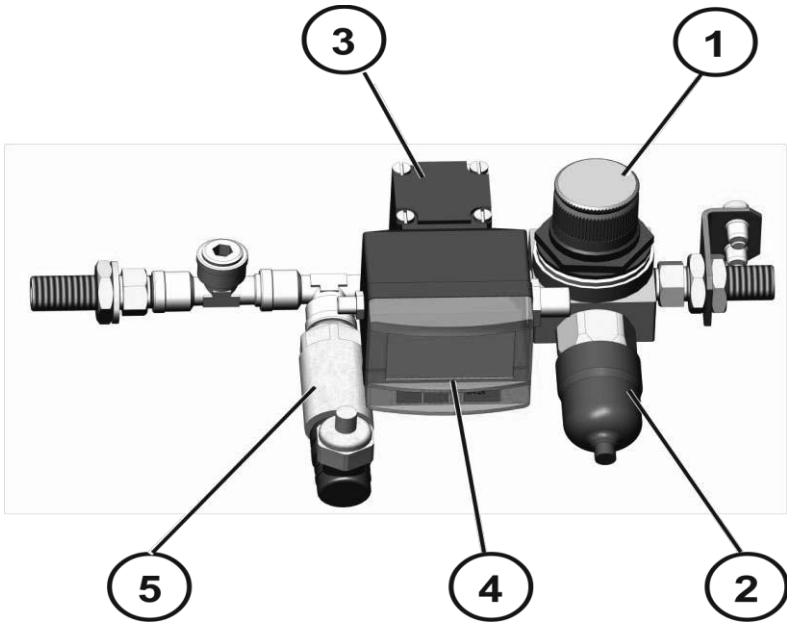
  

Item	Ref.	Stock	Order	Designation
1	W000XXXXXX	✓		Machine interface board
2	W000XXXXXX	✕		Flowmeter
3	9357 XXXX			Silk-screen printed front panel

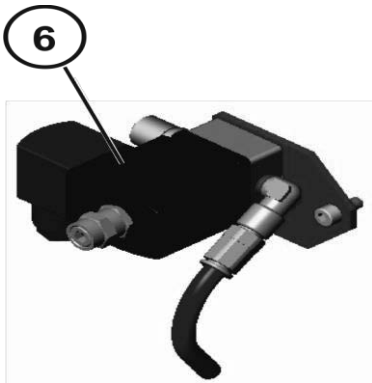
- For parts order, give the quantity required and put the number of your machine in the box below.

CE Type <input type="text"/> Matricule <input type="text"/>	TYPE:
	Number:

BRGi Vortex line P04097541



BRTi Vortex line P04097542



✓	normally in stock
✗	not in stock
	on request

Item	Ref.	Stock	Order	Designation
	<b>P04097541</b>			<b>BRGi vortex line</b>
1	W000139136	✓		Pneumatic regulator
2	W000265273	✓		Pressure sensor
3	PC5908092			Electrovalve2/2 NF 24V 0-8bar 1/4G 2833
4	PC5908093			Pressure controller + accessory
5	PC5908066			Pressure transmitter
	<b>P04097542</b>			<b>BRTi vortex line</b>
6	W000382512	✓		3 way Solenoid valve

➤ For parts order, give the quantity required and put the number of your machine in the box below.

CE Type

Matricule

TYPE :

Matricule :

[illegible]