

WORKSHOP MANUAL AND PARTS LIST





Proper operation and the durability of the expanding shaft depends on compliance with and respect of the instructions given in this manual.

It is of mandatory to comply with the contents of this manual.

ATEM declines all responsibility for damage to persons, animals or property caused by negligence or failure to comply with these instructions.

ATEM declines all responsibility for direct or indirect damage caused by failure to comply with the safety accident prevention regulations described in the following paragraphs

ATEM declines all responsibility for damage caused by improper use of the shaft and/or modifications that were not authorized by the Manufacturer.

GUARANTEE

ATEM S.R.L. guarantees the expanding shaft for a period of 12 months plus 4 from the date of purchase. This guarantee consists in free repair or replacement of those parts which, after careful examination by the Manufacturer's Engineering Department, are found to be defective. The guarantee covers only material defects and ceases to be effective whenever the parts returned are found to have been tampered with or dismantled by persons not authorized to do so.

Repair or replacement of materials covered by the guarantee do not extend the terms of the guarantee coverage itself.

It is necessary to check, when receiving the shaft, that it has not been damaged during shipment.

All claims must be presented within 6 days of delivery of the shaft.

Guarantee coverage ceases, in addition to the cases stipulated in the delivery contract, whenever:

- there has been an operator's error when using the shaft
- whenever damage is due to insufficient maintenance
- whenever the maximum load capacity or working speed of the shaft has been exceeded
- whenever, following repair performed by the user without the consent of ATEM S.R.L. or because of installation of non original spare parts, the shaft has been modified and damage is caused by these modifications
- whenever the instructions described in this instruction manual are not complied with.

IDENTIFICATION

Every expanding shaft is identified through a punched inscription (Figure) that gives the following data:

- Month of Manufacture (yy).
- Year of Manufacture (kk).
- ATEM order number (xxxx/xx).

ATEM order number xxxx/xx yy/kk Year of Manufacture Month of Manufacture

SAFE USE OF THE SHAFT

- If is prohibited to use or to have the shaft used by anyone that has not fully read, understood and perfectly assimilated the contents of this manual and of the operating and maintenance manual for the machine where the shaft is fitted.
- It is absolutely prohibited to touch or rest against the shaft during rotation
- The shaft is built exclusively for reeling and unreeling material in reels.
- It is mandatory to position the reel(s) of material wrapped on the shaft according to the project-loading schema communicated to ATEM S.R.L. in a written document and approved by the said Company.

SAFE MAINTENANCE

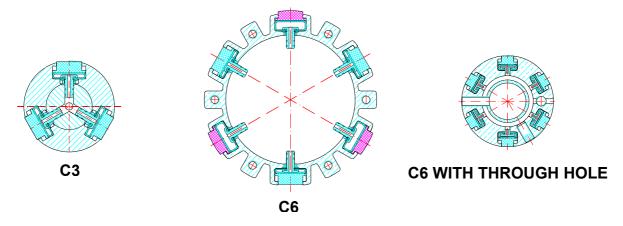
It is necessary to comply with the following regulations in order to guarantee safe maintenance of the shaft:

- The maintenance of the shaft must only be carried out by qualified and specialized personnel, according to the instructions in this manual.
- Maintenance and replacement of damaged or worn out components must be carried out with care, following the instructions contained in this manual.
- Any shaft lifting procedure must carried out by hand if the mass of the shaft is below the prescribed limit or by suitable slings that conform to the Laws of the country where lifting takes place.
- No welding, flame or tool cuts or hole are to be made in or on the shaft structure.
- Always use original spare parts when carrying out maintenance and repair.
- Memorize the contents of this Instruction Manual and keep it for the entire working life of the shaft.



IDENTIFICATION OF THE SHAFT TYPE

Examine the shaft and ascertain the type using the identification code sheet attached.



Once the shaft has been identified, follow instructions indicated here below:

TIPO C3
TIPO C6
TIPO C6 WITH THROUGH HOLE

C3

- 1) Using a no. 4 Allen key, remove the grub screw and take off the stop ring.
- 2) Using a no. 4 Allen key, remove the grub screw and unscrew the locking plates.
- 3) Slide out the first locking plate.
- 4) Slide out the first closing plate of the bladder.
- 5) Slide out the gripping strips.
- 6) Slide out the second locking plate.
- 7) Slide out the second closing plate of the bladder.
- 8) Slide out the protection strip.
- 9) Slide out the bladder complete with valve.

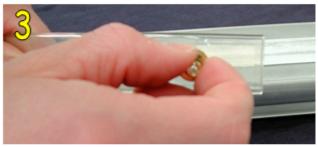




Ensure that the groove is clean.



Grease the connecting hole of the valve.



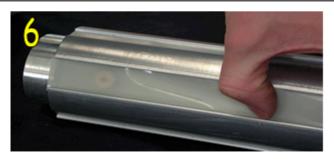
Grease the valve at the end of the bladder.



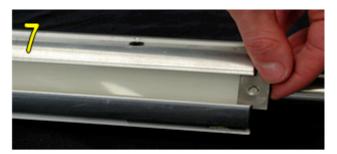
Insert the brass valve in the connecting hole of the valve.



K Insert the bladder in the groove.



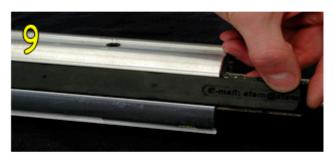
Insert the protection strip.



Insertthe first closing plate of the bladder.



K Insert the locking plate.



Insert the gripping strips.



Insert the second closing plate of the bladder.



Insert the locking plate.



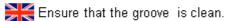


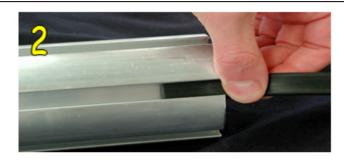
Tighten the grub screw of the locking plates using a no. 4 Allen key.

C6 FORO PASSANTE

- 1) Using a no. 4 Allen key, remove the grub screw and unscrew the locking plates.
- 2) Slide out the first locking plate.
- 3) Slide out the first closing plate of the bladder.
- 4) Slide out the gripping strips.
- 5) Slide out the steel protection strip.
- 6) Slide out the second closing plate of the bladder.
- 7) Slide out the plate of the pressure connector.
- 8) Slide out the second closing plate of the bladder.
- Slide out the nylon protection strip.
- 10) Extract the bladder complete with the pressure connector.



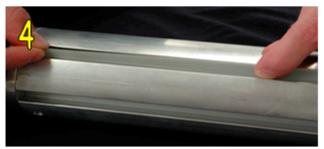




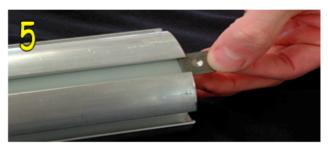
Insert the bladder in the groove.



Insert the brass pressure connector in the connecting hole of the valve.



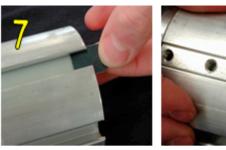
Insert the nylon protection strip.





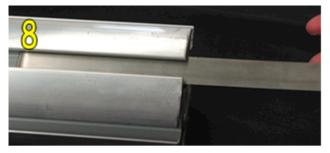


:: Insert the locking plate.

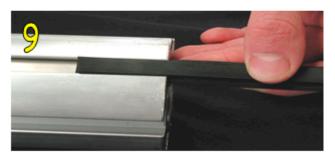




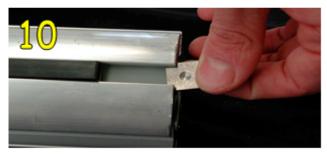
Insert the plate for the pressure connector.



Insert the steel protection strip.

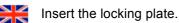


Insert the gripping strips.

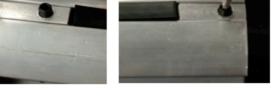


Insert the second closing plate of the bladder.









Tighten the grub screw of locking plates, using a no. 3 Allen key.



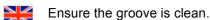
Without using too much force tighten the second grub screw of the locking plate around the pressure connector to ensure that it is air tight, with a no. 3 Allen key.

C₆

- 1) Using a no. 4 Allen key, remove the grub screw and remove the protection and closing key.
- 2) Using a no. 4 Allen key, remove the grub screw and unscrew the locking plates.
- 3) Slide out the first locking plate.
- 4) Slide out the first closing plate of the bladder.
- 5) Slide out the gripping strips.
- 6) Slide out the second locking plate.
- 7) Slide out the second closing plate of the bladder.
- 8) Slide out the protection strip.
- 9) Slide out the bladder complete with valve

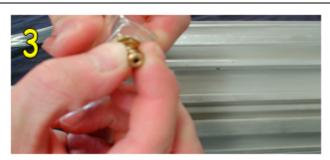








Grease the connecting hole of the valve.



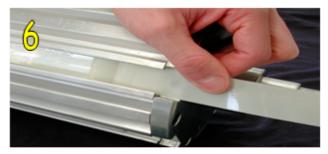
Insert the bladder in the groove.



Insert the protection strip.



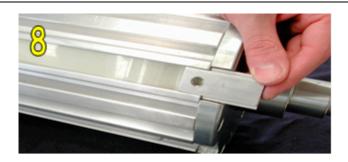
Insert the bladder in the groove.



Inset the protection strip.



Insert the first closing plate of the bladder.



Insert the locking plate.





Insert the gripping strips.

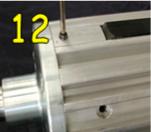


Insert the second closing plate of the bladder.





Insert the locking plate.





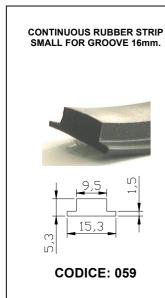
Tighten the grub screw of the locking plates using a no. 4 Allen key.

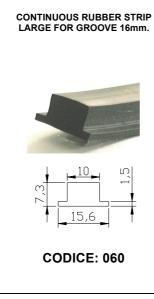


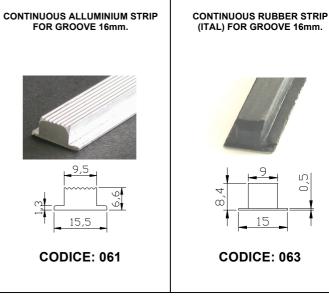


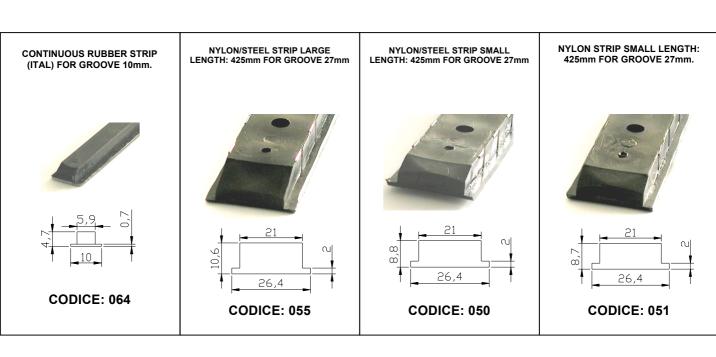
Refit the protection and closing key and tighten the grub screw with a no. 4 Allen key.

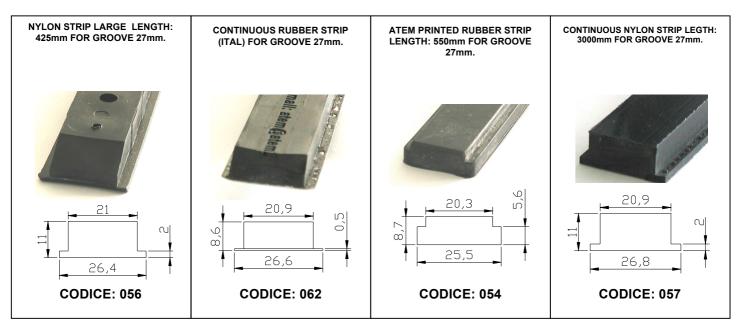
PARTI DI RICAMBIO

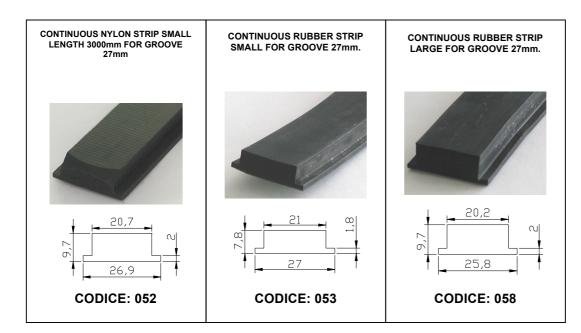


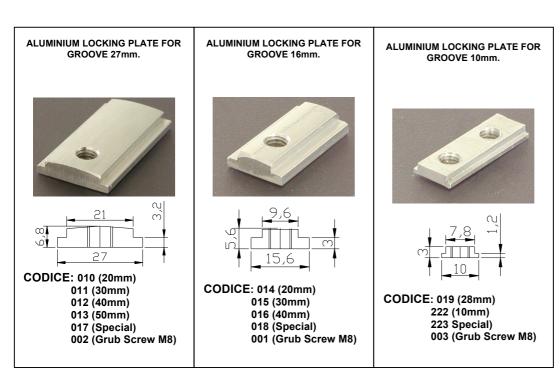




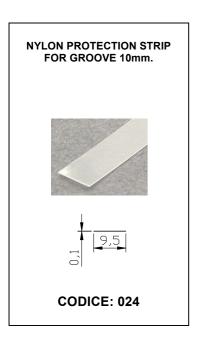


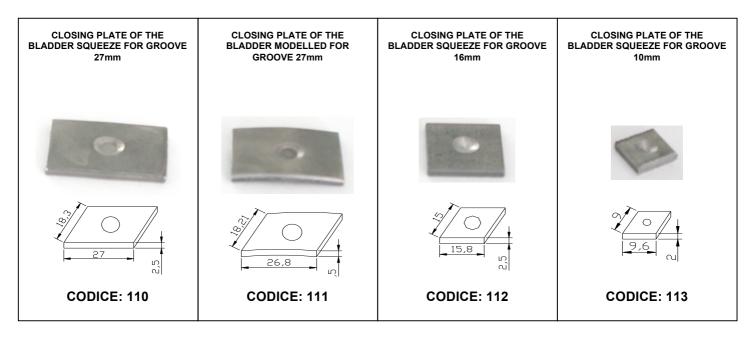


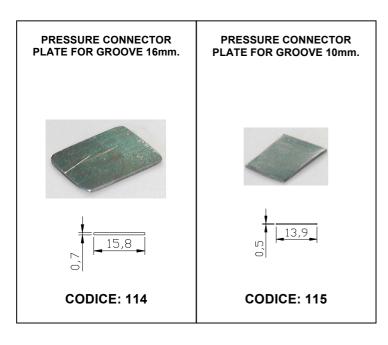


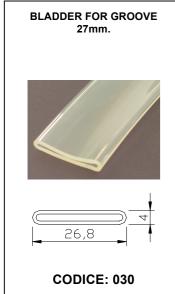


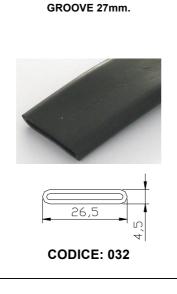












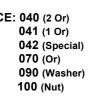
BLACK BLADDER FOR



BLACK BLADDER FOR









CONNECTION DIAM. 4mm.

CODICE: 043 (2 Or)
044 (1 Or)
045 (Special)
071 (Or)
091 (Washer)
101 (Dado / Nut)



PRESSURE CONNECTION

DIAM. 4mm.

CODICE: 046



DIAM. 3mm.

CODICE: 047



VALVE 1/8 GAS W

CODICE: 121 (With spring) 122 (Without spring) 072 (Or)

VALVE 1/8 GAS ATEM



CODICE: 123 125 (Short) 126 (Special) 073 (Or)

VALVE 1/8 GAS W MECHANISM



CODICE: 130 (With spring) 131 (Without spring)

PROTECTION AND LOCKING KEY



CODICE: 190 200 (Screw M5x12)

DISTRIBUTOR DIAM. 111,3mm. FOR SHAFT DIAM. 6"



CODICE: 140

DISTRIBUTOR DIAM. 81mm. FOR SHAFT DIAM. 120



CODICE: 141

DISTRIBUTOR DIAM. 59mm. FOR SHAFT DIAM. 100



CODICE: 142

DISTRIBUTOR DIAM. 158mm. FOR SHAFT DIAM. 8"



CODICE: 143

ACTUATOR DIAM. 18x70 FOR SHAFT 6"



CODICE: 150 074 (Large) 077 (Small)

ACTUATOR DIAM. 35x70 FOR SHAFT 6"



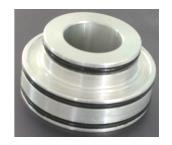
CODICE: 151 074 (Large) 078 (Small)

ACTUATOR DIAM. 25x70 FOR SHAFT 6"



CODICE: 152 074 (Large) 079 (Small)

ACTUATOR DIAM. 50x70 FOR SHAFT 6"



CODICE: 153 074 (Large) 080 (Small)

ACTUATOR DIAM. 18x57 FOR SHAFT 120mm



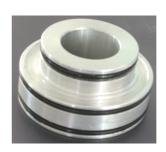
CODICE: 154 075 (Large) 081 (Small)

ACTUATOR DIAM. 20x59 FOR SHAFT 100mm



CODICE: 155 076 (Large) 082 (Small)

ACTUATOR DIAM. 20x85 FOR SHAFT 8"



CODICE: 156 083 (Large) 084 (Small)

CONNECTORS FOR SPIRAL TUBE



CODICE: 164 (1/4 GAS) 165 (1/8 GAS)

INFLATING DEVICE



CODICE: 160 (Gun) 162 (Nozzle)

SPIRAL TUBE



CODICE: 163

GAUGE



CODICE: 161

WIDE CHUCK COUPLING



CODICE: 220

NARROW CHUCK COUPLING



CODICE: 221

SPANNER FOR VALVES 1/8 GAS ATEM AND 1/8 GAS W

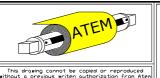


CODICE: 170

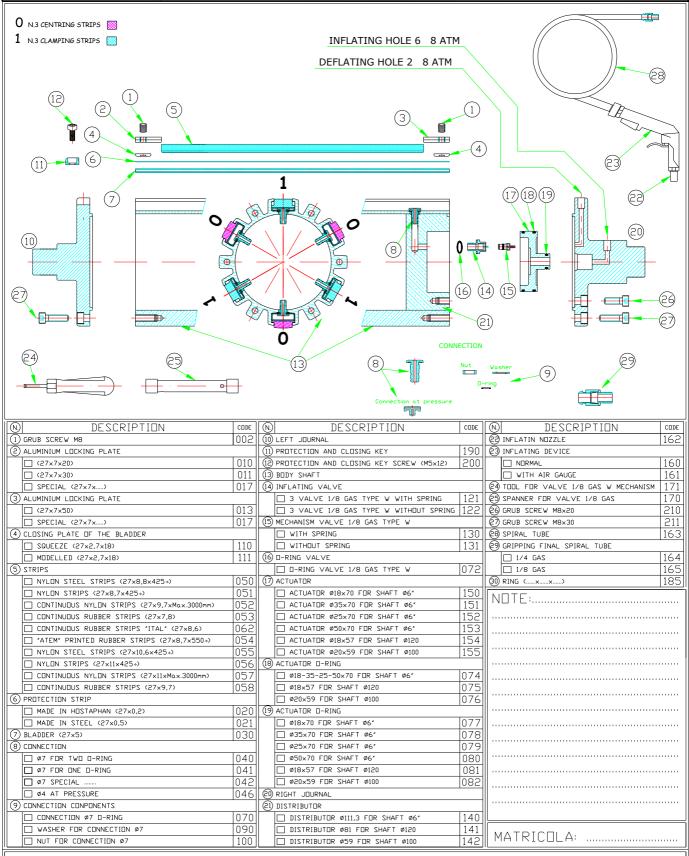
TOOL FOR VALVE 1/8 GAS W MECHANISM



CODICE: 171

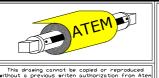


SPARE PART LIST FOR EXPANSIBLE AIR SHAFT TYPE C6ANJ Ø148 - 120 - 100 - 6"

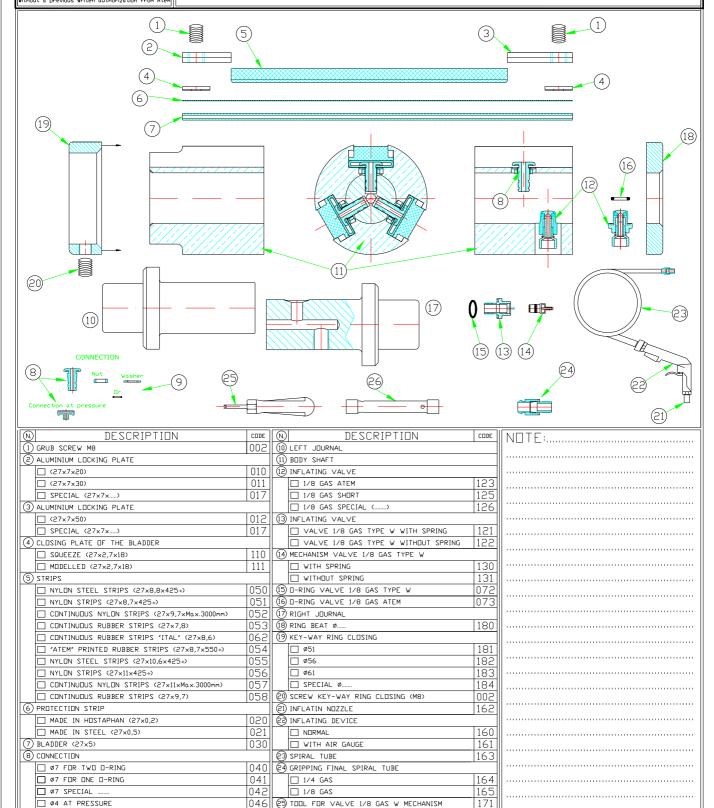


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Fax.: 0371 68265 Cell.: (3481551269) - (3356116752) E-mail: atem@atem2000.it



SPARE PART LIST FOR EXPANSIBLE AIR SHAFT TYPE C3 Ø70 - 3" e C5 Ø76



(26) SPANNER FOR VALVE 1/8 GAS

@ RING (.....x....x....)

090

100

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(9) CONNECTION CONPONENTS

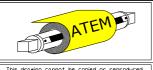
☐ CONNECTION Ø7 O-RING
☐ WASHER FOR CONNECTION Ø7
☐ NUT FOR CONNECTION Ø7

Tel.: 0371 688200 Fax.: 0371 68265 Cell.: (3481551269) - (3356116752) E-mail: atem@atem2000.it

MATRICOLA:

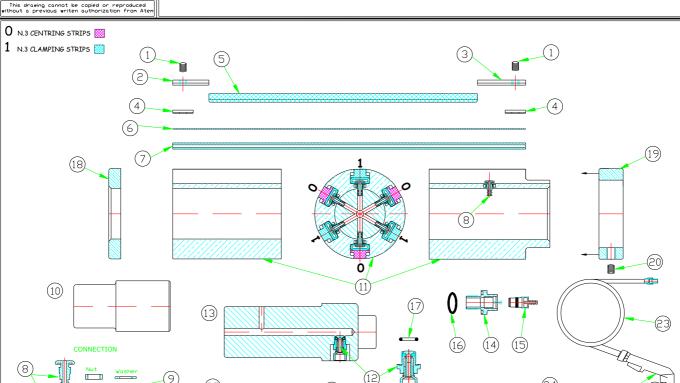
170

185



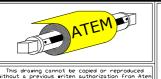
7

SPARE PART LIST FOR EXPANSIBLE AIR SHAFT TYPE C6 Ø70 - 3" e C5 Ø70

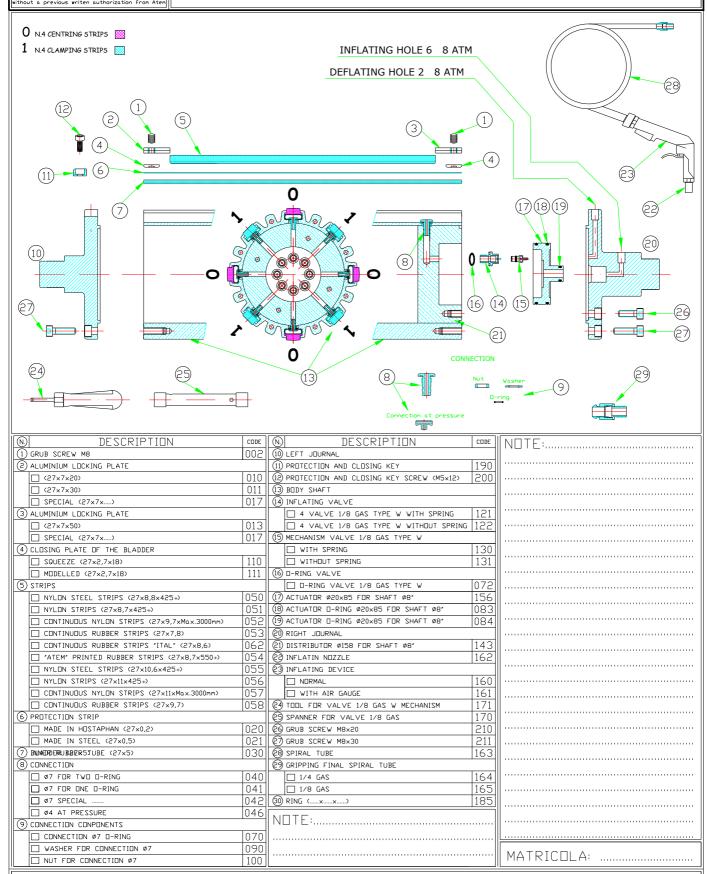


| N DESCRIPTION | CODE | N DESCRIPTION | CODE | NDTE: |
|--|------------------------------|--|------|-------------|
| (1) GRUB SCREW M6 | 001 | (14) INFLATING VALVE 1/8 GAS TYPE W | | 1,5 , 5 , |
| 2 ALUMINIUM LOCKING PLATE | | ☐ VALVE 1/8 GAS TYPE W WITH SPRING | 121 | |
| (16×6,5×20) | 014 | ☐ VALVE 1/8 GAS TYPE W WITHOUT SPRING | 122 | |
| (16×6,5×30) | 015 | (5) MECHANISM VALVE 1/8 GAS TYPE W | | |
| SPECIAL (16×6,5×) | 018 | ☐ WITH SPRING | 130 | |
| (3) ALUMINIUM LOCKING PLATE | | ☐ WITHOUT SPRING | 131 | |
| (16×6,5×40) | 016 | (6) O-RING VALVE 1/8 GAS TYPE W | 072 | |
| SPECIAL (16×6,5×) | 018 | 17 D-RING VALVE 1/8 GAS ATEM | 073 | |
| 4 CLOSING PLATE OF THE BLADDER | | (18) RING BEAT Ø | 180 | |
| SQUEEZE (16×2×15) | 112 | (19) KEY-WAY RING CLOSING | | |
| (5) STRIPS | ' | □ ø51 | 181 | |
| CONTINUOUS RUBBER STRIPS (16×5,3) | 059 | □ ø56 | 182 | |
| ☐ CONTINUOUS RUBBER STRIPS (16×7,3) | 060 | □ ø61 | 183 | |
| ☐ CONTINUOUS ALLUMINIUM STRIPS (16×6,6) | 061 | SPECIAL Ø | 184 | |
| CONTINUOUS RUBBER STRIPS "ITAL" (16×8,4) | 063 | 20 SCREW KEY-WAY RING CLOSING (M8) | 002 | |
| 6 PROTECTION STRIP | | (21) INFLATIN NOZZLE | 162 | |
| ☐ MADE IN H□STAPHAN (16×0,2) | 2 INFLATING DEVICE | | | |
| ☐ MADE IN STEEL (16×0,3) | 023 | □ N□RMAL | 160 | |
| 7) INNER RUBBER TUBE (16×4) | 031 | | 161 | |
| 8 CONNECTION | | (2) SPIRAL TUBE | 163 | |
| □ Ø4 FOR TWO O-RING | @ GRIPPING FINAL SPIRAL TUBE | | | |
| ☐ Ø4 FOR ONE O-RING | 044 | ☐ 1/4 GAS | 164 | |
| □ Ø4 SPECIAL | 045 | ☐ 1/8 GAS | 165 | |
| ☐ Ø4 AT PRESSURE | 046 | (5) TOOL FOR VALVE 1/8 GAS W MECHANISM | 171 | |
| 9 CONNECTION CONPONENTS | ' | (6) SPANNER FOR VALVE 1/8 GAS | 170 | |
| CONNECTION Ø4 O-RING | 071 | (7) RING (xx) | 185 | |
| ☐ WASHER FOR CONNECTION Ø4 | 091 | NOTE | | |
| ☐ NUT FOR CONNECTION Ø4 | 101 | NDTE: | | |
| (10) LEFT JOURNAL | ' | | | |
| (11) BODY SHAFT | | | | |
| (12) INFLATING VALVE | | | | |
| ☐ 1/8 GAS ATEM | 123 | | | |
| ☐ 1/8 GAS SHORT | 125 | | | |
| ☐ 1/8 GAS SPECIAL () | 126 | | | MA TOTOGL A |
| (13) RIGHT JOURNAL | 1 | | | MATRICOLA: |

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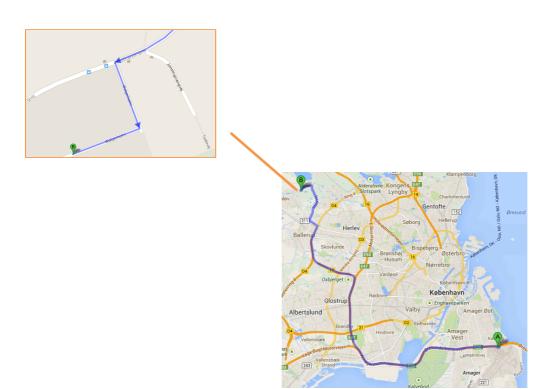
SPARE PART LIST FOR EXPANSIBLE AIR SHAFT TYPE C8ANJ Ø8"



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