



INSTRUCTION MANUAL POLYKEG PRO



This manual contains information, instructions and warnings for proper handling and use of the PolyKeg PRO one-way keg.

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SECTION 1



WARNINGS

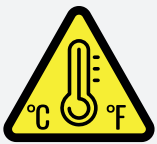
The PolyKeg PRO one-way keg is intended for **professional use only**. Please refer to this Instruction Manual and the symbols on the keg before use.

When handling the keg, wear personal **protective equipment** (goggles, gloves, etc.) and make sure the room where you are working is **ventilated**.

Make sure the keg is intact and leave the **warnings** on the keg clearly readable.

If used improperly the PolyKeg PRO keg may be damaged, not ensuring the integrity of the product or causing injury and/or property damage.

The PolyKeg PRO one-way keg **cannot be reused, must not be disposed of in the environment**, must be depressurized immediately after its use and **returned empty to authorized collection points** in compliance with local regulations.



**0÷40°C
32÷104 °F**

Keep away from heat sources. If exposed to temperatures above the permitted limit the keg may be damaged, not ensuring the integrity of the product or causing injury and/or property damage.



**MAX 3,5 BAR
MAX 50 PSI**

If over-pressurized, the keg may cause injury and/or property damage.



HAZARD

Suffocation hazard. Use in a well-ventilated environment.



NO CHILDREN

Keep away from children. When the keg is under pressure it is heavy and can cause injury and/or property damage.



**NO DIRECT
SUNLIGHT**

Do not expose to direct sunlight. The keg may be damaged, not ensuring the integrity of the product or causing injury and/or property damage.



NO CHEMICALS

Keep away from chemicals or unsuitable cleaning substances. The keg may be damaged, not ensuring the integrity of the product or causing injury and/or property damage.



**DO NOT
REMOVE**

Do not remove and/or tamper with the valve. The keg may be damaged, not ensuring the integrity of the product or causing injury and/or property damage.



DO NOT ROLL

Do not roll and/or drop. The keg may be damaged causing injury and/or property damage.



**DO NOT
PIERCE**

Do not pierce and/or cut. The keg may be damaged causing injury and/or property damage.



**KEEP AWAY
FROM VITAL
PARTS OF THE
BODY**

Whenever using or handling, keep the keg away from vital parts of the body



**USE OF VISOR
OR
PROTECTIVE
SCREEN**

Always use personal safety equipment whenever using the keg (e.g. handling, connecting and disconnecting, depressurising, etc.).



**USE OF CUT
RESISTANT
WORK GLOVES**

Always use personal safety equipment whenever using the keg (e.g. handling, connecting and disconnecting, depressurising, etc.).

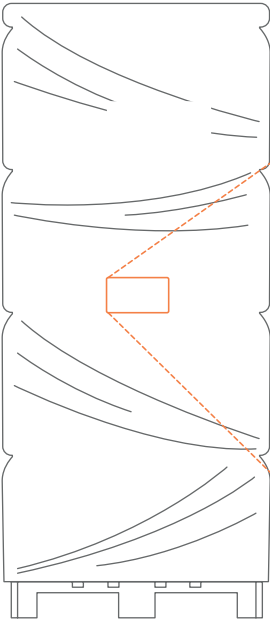
SECTION 2



PACKING AND KEG IDENTIFICATION



PALLET STANDARD IDENTIFICATION



POLYKEG s.r.l.
Via L. da Vinci 5/9, 24064 Grumello del Monte (BG)
Italy

Tel. +39 0354522245

KEG000835

CODE

FUSTO POLYKEG PRO 30L ARGENTO valvola A

DESCRIPTION

24/04/2020 15.06 00 PALLET120X80 - 44

DATE / PRODUCTION TIME. / PACKING/ PALLET ID

Lotto: P01L1900855B001

Quantità: 44

BATCH / QUANTITY



(240) KEG000835 (37) 0044 (10) P01L1900855B001

CODE

QUANTITY

BATCH

N. PALLET

VALVE AND KEG IDENTIFICATION



VALVE TYPE

KEG TYPE
(WITH BAG OR WITHOUT BAG)

DAY OF PRODUCTION
(GREGORIAN CALENDAR)

PRODUCTION TIME

PRODUCTION LINE

YEAR OF PRODUCTION

PRODUCTION PLANT



















PRODUCTION ORDER

S - BAG
00-000 00:00:00 00
P00L00000000

SECTION 3



VALVES AND COUPLERS

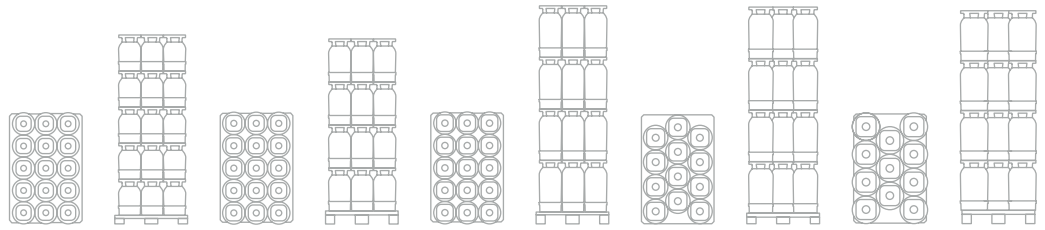
TYPE	VALVE	COUPLER		NOTES
A				FLAT
G				
M				
S				EUROPEAN SANKEY
D				AMERICAN SANKEY
K				KK

SECTION 4



POLYKEG PRO LOGISTICS DATA SHEETS

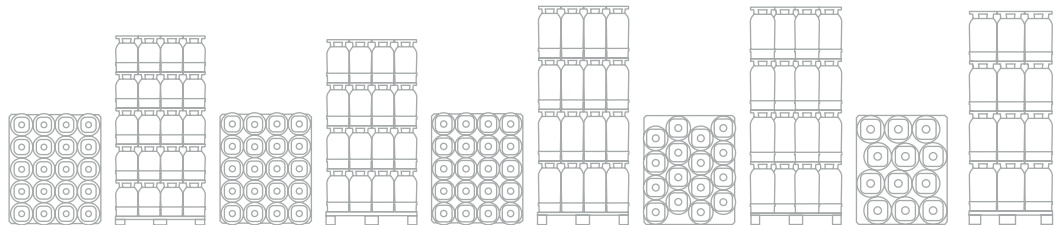
EMPTY KEGS PALLETIZATION
PALLET 80X120 CM | 31.50''X47.24''



Palletization

		12 L	406 oz.	16 L	541 oz.	20 L	676 oz.	24 L	811 oz.	30 L	1014 oz.
Layers		5		4		4		4		4	
Kegs per layer		15		15		15		12		11	
Kegs per pallet		75		60		60		48		44	
Height		2077 mm 81,77"		2044 mm 51,91"		2396 mm 94,33"		2384 mm 93,85"		2384 mm 93,85"	
QUANTITY	pallet	kegs		kegs		kegs		kegs		kegs	
CTR 20 ft Standard	11	825		660		495*		396*		363*	
CTR 40 ft High Cube	24	1800		1440		1440		1152		1056	
CTR 45 ft High Cube	32	2400		1920		1920		1536		1408	
Truck 13,6 mt	32	2400		1920		1920		1536		1408	

PALLET 100X120 CM | 39.37''X47.24''



Palletization

		12L 406 oz.	16L 541 oz.	20L 676 oz.	24L 811 oz.	30L 1014 oz.	
Layers		5		4		4	
Kegs per layer		20		20		16	
Kegs per pallet		100		80		64	
Height		2077 mm 81,77"		2044 mm 51,91"		2396 mm 94,33"	
		2384 mm 93,85"		2384 mm 93,85"		2384 mm 93,85"	
QUANTITY	pallet	kegs		kegs		kegs	
CTR 20 ft Standard	10	1000		800		600*	
CTR 40 ft High Cube	22	2200		1760		1408	
CTR 45 ft High Cube	26	2600		2080		1664	
Truck 13,6 mt	26	2600		2080		1664	

WARNINGS

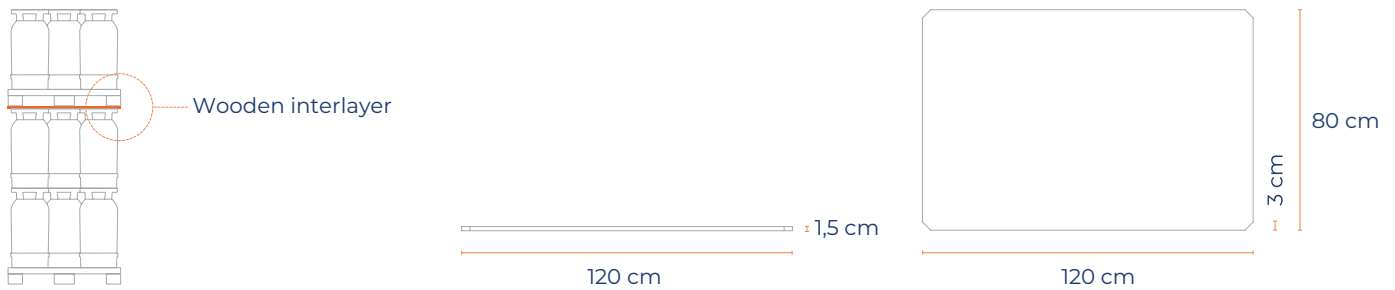
Any stacking of pallets and the maximum number of layers must take into account the mechanical properties of the keg as reported on the technical data sheet, the local regulations, and the means and manner of handling and transport, as well as the conditions of the storage areas. Kegs are supplied on pallets, wrapped with white extensible film for better protection.

*Quantities refer to three layers palletization, compulsory for CTR 20 ft Standard.



FILLED KEGS PALLETIZATION
PALLET 80X120 CM | 31.50''X47.24''

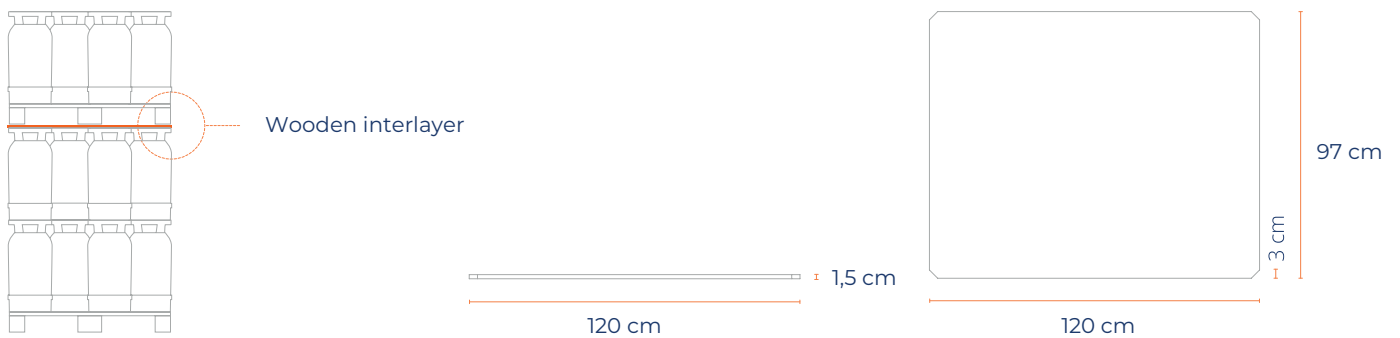
Palletization					
	12 L 406 oz.	16 L 541 oz.	20 L 676 oz.	24 L 811 oz.	30 L 1014 oz.
Layers	3*	2*	2*	2*	2*
Kegs per layer	15	15	15	12	11
Kegs per pallet	45	30	30	24	22
Height	1307 mm 51,45"	1098 mm 43,22"	1274 mm 50,15"	1268 mm 49,92"	1268 mm 49,92"
Stacking in storage					
Layers	3+3	2+2	2+2	2+2	2+2
Stacking for transport					
Layers	3+2	2+2	2+1	2+1	2+1





FILLED KEGS PALLETIZATION
PALLET 100X120 CM | 31.50''X47.24''

Palletization										
	12 L	406 oz.	16 L	541 oz.	20 L	676 oz.	24 L	811 oz.	30 L	1014 oz.
Layers	3*		2*		2*		2*		2*	
Kegs per layer	20		20		20		16		12	
Kegs per pallet	60		40		40		32		24	
Height	1307 mm 51,45"		1098 mm 43,22"		1274 mm 50,15"		1268 mm 49,92"		1268 mm 49,92"	
Stacking in storage										
Layers	3+3		2+2		2+2		2+2		2+2	
Stacking for transport										
Layers	3+2		2+2		2+1		2+1		2+1	





LOADING RECOMMENDATIONS

PALLET 100X120 CM | 31.50''X47.24''

	pallet	plan view
CTR 20 ft Standard	11	
CTR 40 ft High Cube	24	
CTR 45 ft High Cube	32	
Truck 13,6 mt	32	

PALLET 100X120 CM | 31.50''X47.24''

	pallet	plan view
CTR 20 ft Standard	10	
CTR 40 ft High Cube	22	
CTR 45 ft High Cube	26	
Truck 13,6 mt	26	

WARNINGS

When transporting filled kegs, it is recommended to use refrigerated containers.

When using refrigerated containers, the number of pallets may vary.

When stacking pallets, the load must be evenly distributed by using a rigid interlayer or an overturned pallet between one pallet and another. In order to prevent damage to the kegs and/or falls, the pallets must be secured with straps and airbags must be inserted in the empty spaces. the maximum number of layers must take into account the mechanical properties of the keg as reported on the technical data sheet, the local regulations, and the means and manner of handling and transport, as well as the conditions of the storage areas.

SECTION 5



SANITIZING
INSTRUCTIONS

WHAT NEEDS TO BE SANITIZED

Before starting the filling, sanitize the manual filling kit (tubes, valves, seals, couplers, etc.) or the automatic/semi-automatic filling machine. Before connecting the keg, clean and sanitize all parts likely to come into contact with the product (coupler and external part of the valve). After each filling, clean and sanitize the keg valve. Should it be necessary to temporarily disconnect the keg, clean and sanitize the external part of the valve.

Note: do not use any substance not specified in this manual.

MANUAL FILLING KIT AND VALVE SANITIZATION

Hydroalcoholic solution in demineralized water



70%



MIN TIME
45 SECONDS

SANITIZING THE POLYKEG MANUAL FILLING KIT

Soak the disassembled components of the manual filling kit in the sanitizing solution listed above. Please follow the dilution rates and time limits indicated above. Rinse thoroughly and dry with sterile air.

SANITIZING OF THE COUPLER AND THE EXTERNAL PART OF THE VALVE

Clean and spray the external surface of the components with the sanitizing solution listed above. Please follow the above dilution rates and time limits.

SANITIZING WITH AUTOMATIC AND SEMI-AUTOMATIC MACHINES

Hot water



Maximum pressure on the valve

0,8 BAR



Maximum temperature

85°C



Maximum time

5 sec.

OR

Steam



Maximum pressure on the valve

0,8 BAR



Maximum temperature

100°C



Maximum time

3 sec.

AUTOMATIC/SEMI-AUTOMATIC MACHINE SANITIZING

Before starting the filling sanitize the automatic/semi-automatic filler according to the manufacturer's instructions.

SANITIZING THE EXTERNAL PART OF THE VALVE

Set the filler to sanitize the external surface of the keg valve with hot water or steam according to the above mentioned pressure, temperature and time limits.

SECTION 6



FILLING INSTRUCTIONS WITH POLYKEG® MANUAL KIT

POLYKEG PRO WITH BAG



Before filling, please refer to the warnings in the “Section 1” of the PolyKeg PRO instruction manual and to the keg technical data sheets.

POLYKEG MANUAL FILLING KIT:

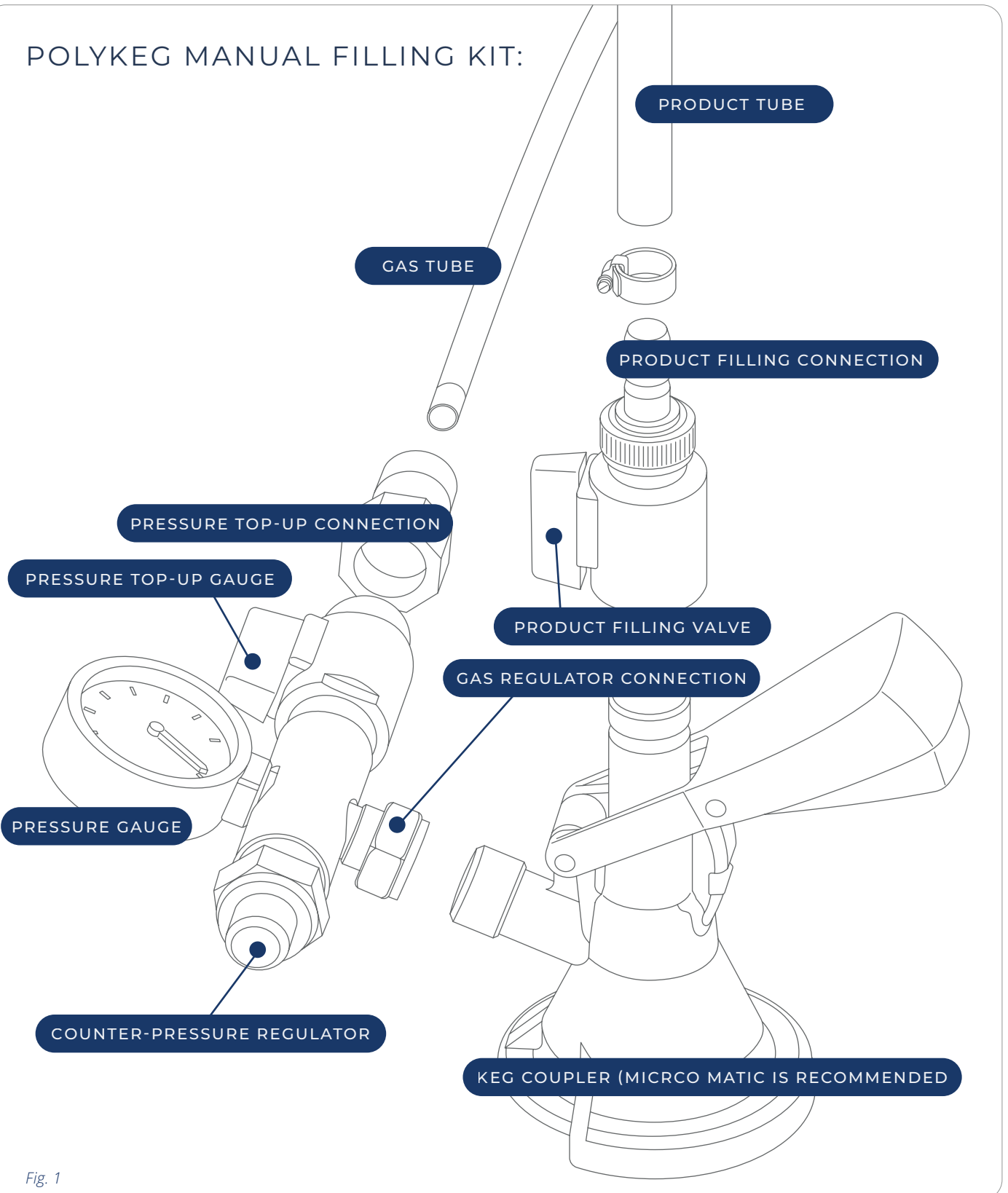


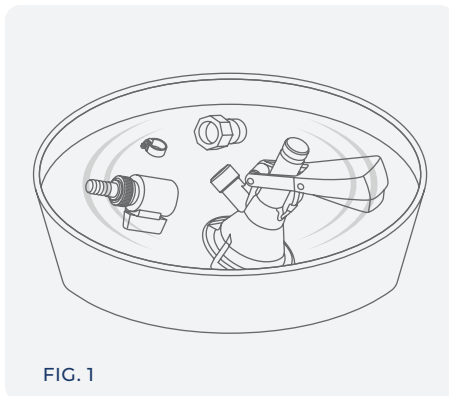
Fig. 1



Before filling, please refer to the warnings in the “Section 1” of the PolyKeg PRO instruction manual and to the keg technical data sheets.

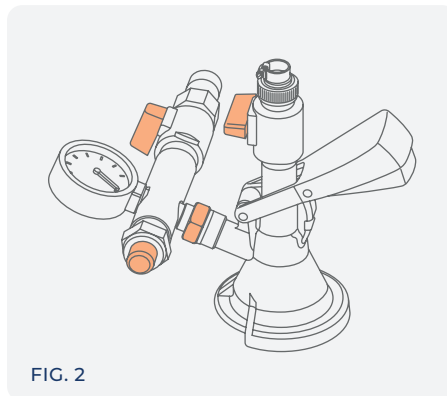
PREPARATION

1. Sanitizing



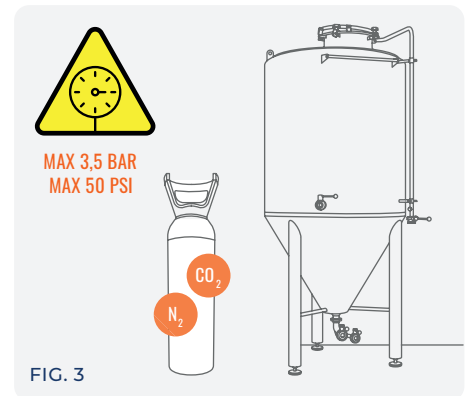
Disassemble the PolyKeg® filling kit and sanitize the components as indicated in the “Sanitizing Instructions” section.

2. Assembly



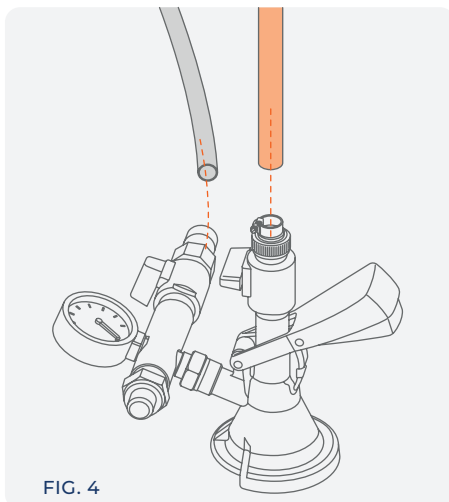
Reassemble the kit properly and close all valves.

3. Gas and product pressure check



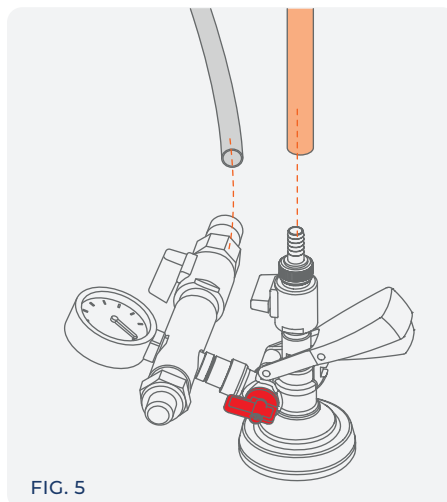
Check that the pressures of the filling system are correctly set and below the maximum value indicated. (3.5 bar/50 psi).

4. Gas and product tube connection



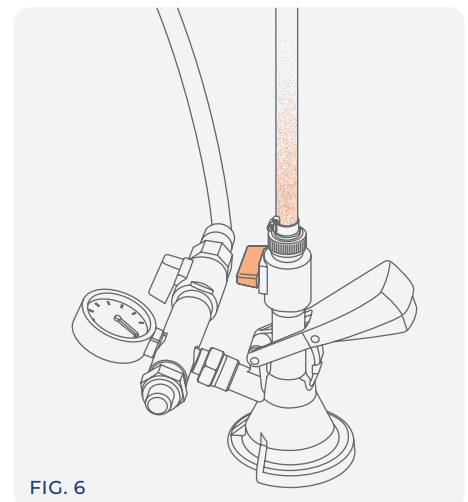
Connect the product and gas tubes to the filling kit.

5. Gas and product tubes connection with K-valve



K-VALVE ONLY
Connect the product and gas tubes to the filling kit. Open the red valve.

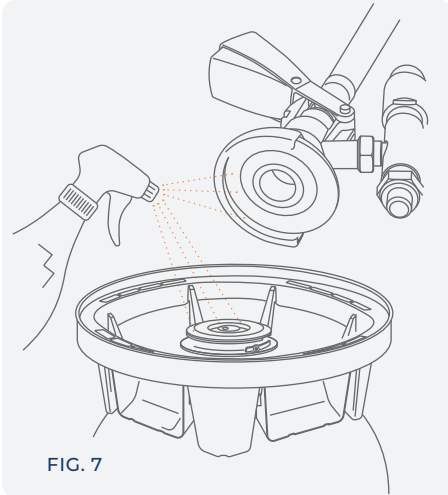
6. Product tube purging



Work with the product valve to remove any residual gas from the product tube. Close the product valve.

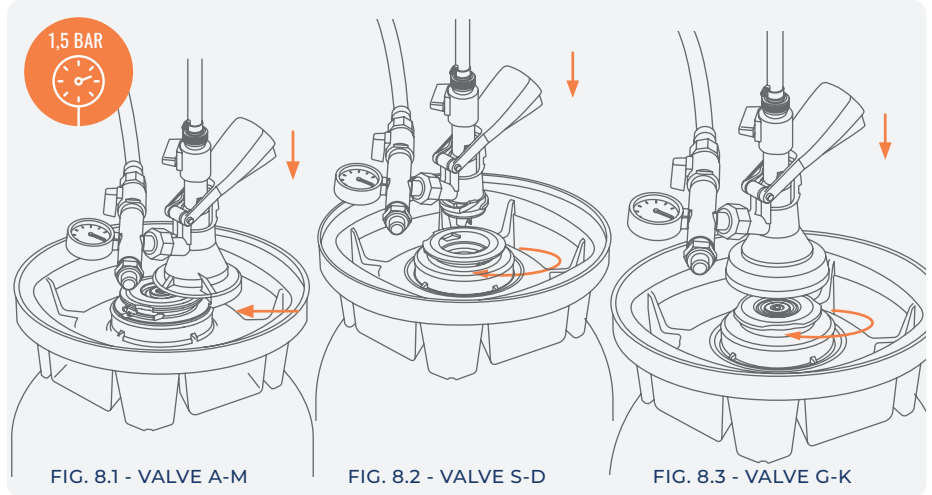
FILLING

7. Sanitizing



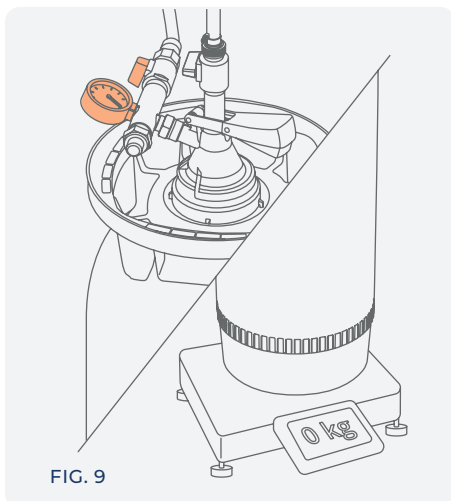
Before filling, sanitize the parts in contact with the product as indicated in the “Sanitizing instructions” section.

8. Connection and Counter-pressure check



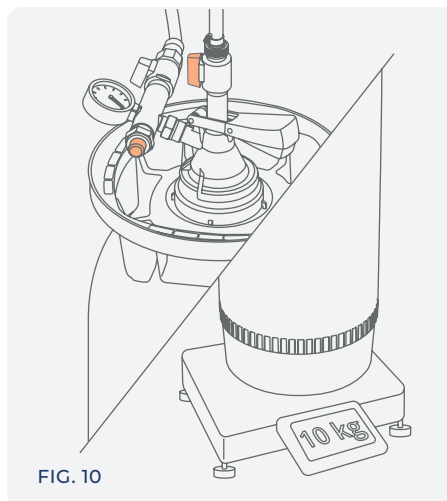
Make sure the filling head is properly connected to the valve, lower the lever and check the internal pressure of the keg.

9. Counter-pressure regulation



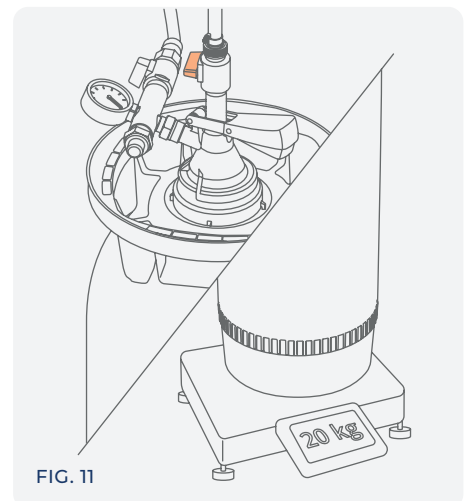
Work with the gas valve until the desired counter pressure is reached (approx. 0.5 bar lower than the product filling pressure).

10. Filling



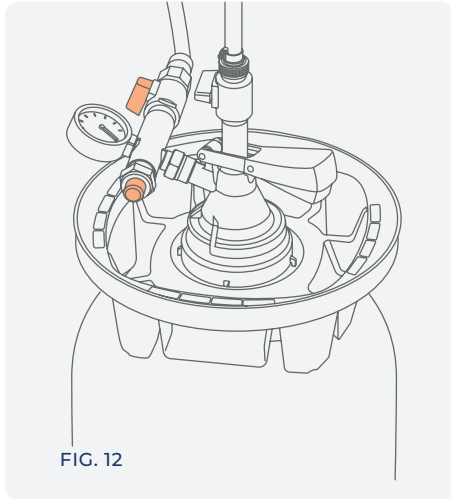
Open the product valve to start filling and work with the counterpressure regulator to set and/or change the filling speed.

11. End of filling



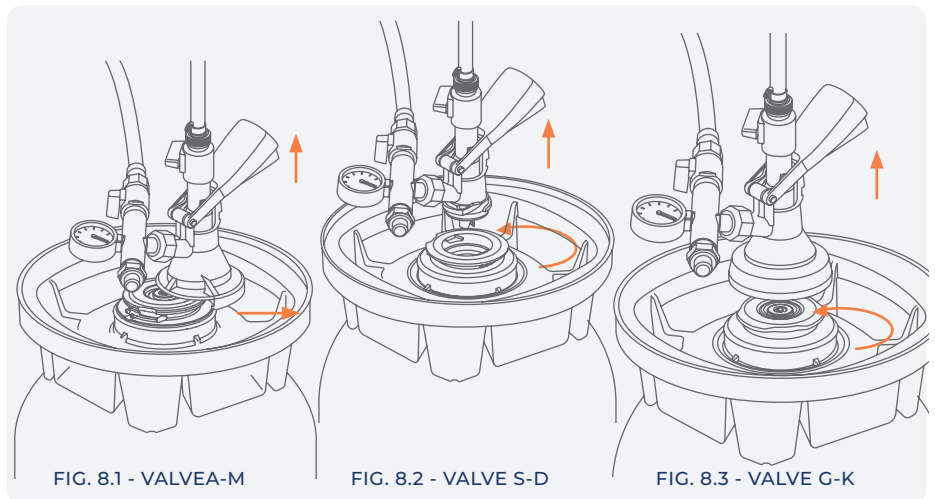
Once the nominal filling volume is reached, close the product valve. Do not exceed the nominal filling volume to prevent the product from leaking out of the bag.

12. Pressure balance



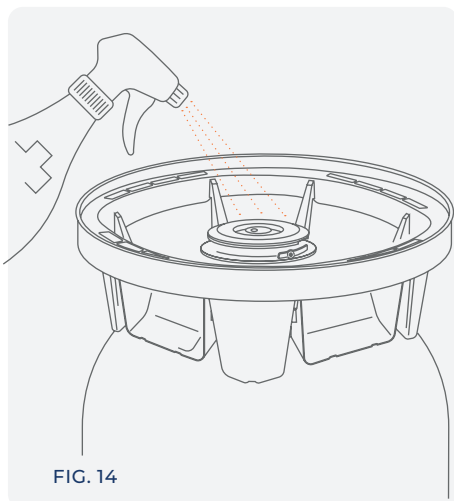
Close the regulator and work on the gas valve to increase the counter-pressure to a value slightly higher than the product filling value.

13. Uncoupling



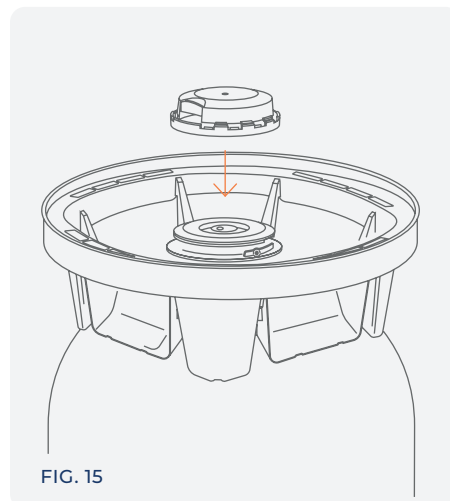
Quickly lift the lever and disconnect the coupler from the keg.

14. Valve sanitizing



Remove any residual product with water, sanitize the external part of the valve as indicated in the "Sanitizing instructions" section and dry same.

15. Seal application



Apply the seal.

SECTION 7



FILLING INSTRUCTIONS WITH POLYKEG® MANUAL KIT

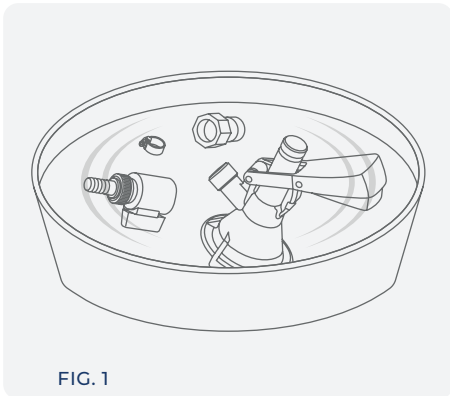
POLYKEG PRO WITHOUT BAG



Before filling, please refer to the warnings in the “Section 1” of the PolyKeg PRO instruction manual and to the keg technical data sheets.

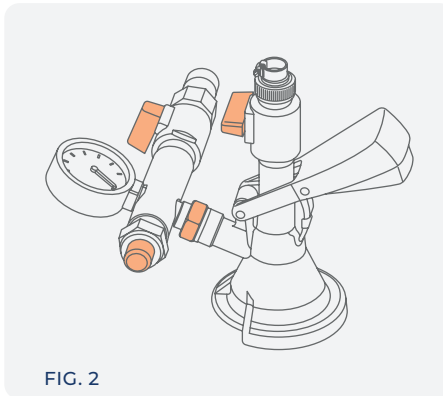
PREPARATION

1. Sanitizing



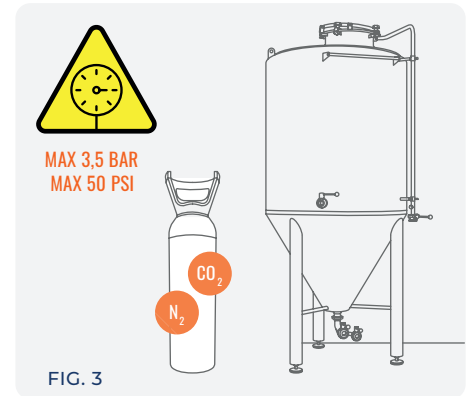
Disassemble the PolyKeg® filling kit and sanitize the components shown in the picture, following the sanitizing instructions found in “Section 5”.

2. Assembly



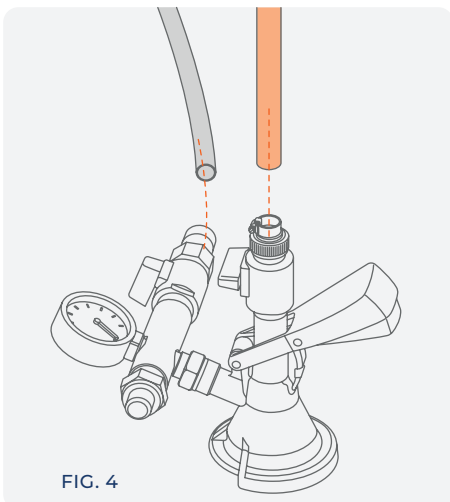
Reassemble the kit properly and close all valves.

3. Gas and product pressure check



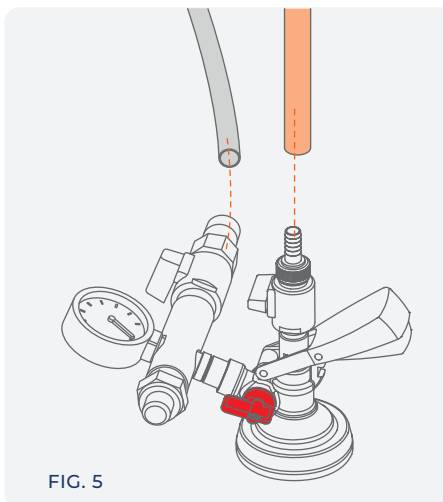
Check that both product and gas pressure in the tank does not exceed the maximum nominal working pressure (3.5 bar/ 50 psi).

4. Gas and product tubes connection



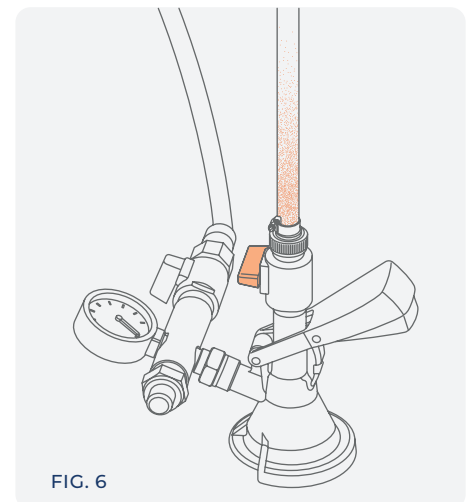
Connect the product and gas tubes to the filling kit.

5. Gas and product tubes connection with K valve



K VALVE ONLY
Connect the product and gas tubes to the filling kit. Open the red valve.

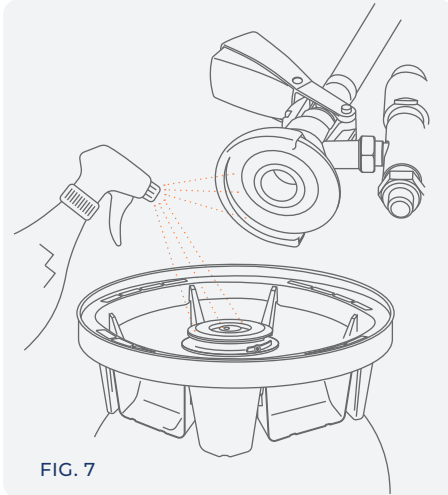
6. Product tube bleeding



Work with the product valve to remove any residual gas from the product tube. Close the product valve.

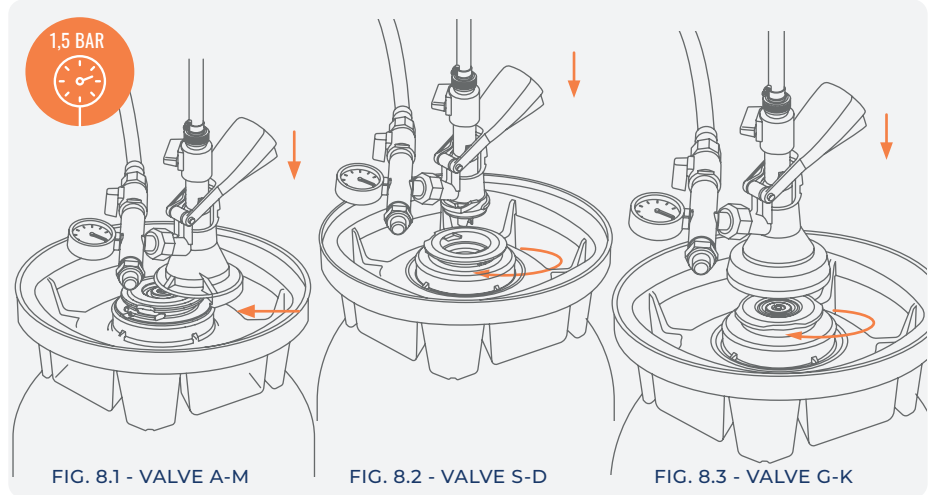
FILLING

7. Sanitizing



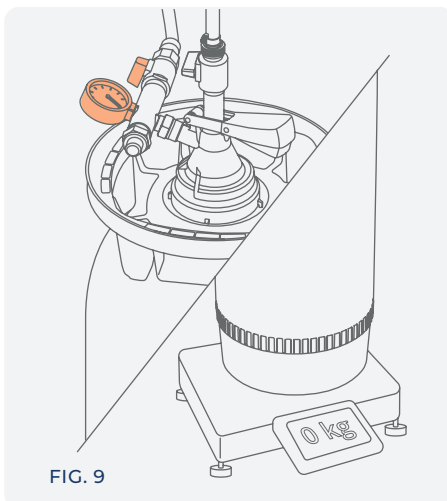
Before filling, sanitize the parts in contact with the product according to the "Sanitizing Instructions" section.

8. Filling head connection and counter-pressure check



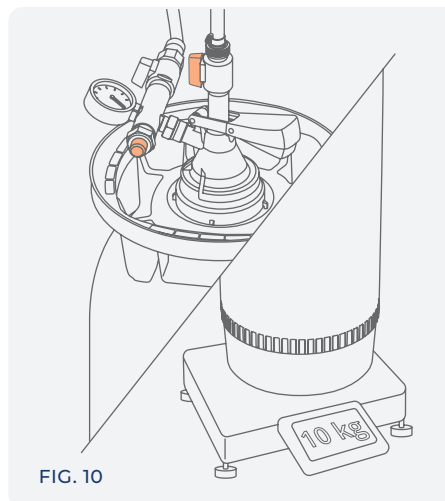
Connect properly the filling head to the valve, lower the lever and check the internal keg pressure.

9. Counter-pressure regulation



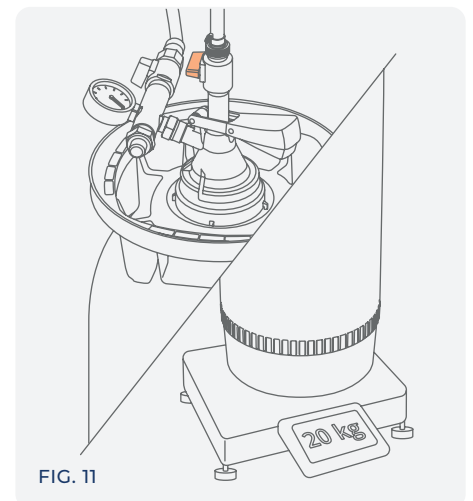
Work with the gas valve until the desired counter-pressure is reached (approx. 0.5 bar lower than the product filling pressure).

10. Filling



Open the product valve to start filling and work with the counterpressure regulator to set and/or change the filling speed.

11. End of filling



Once the nominal filling volume is reached, close the product valve. Do not exceed the nominal filling volume to prevent the product from leaking.

12. Uncoupling

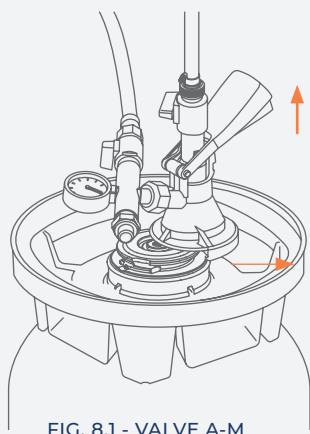


FIG. 8.1 - VALVE A-M

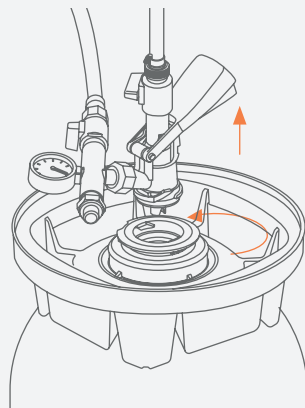


FIG. 8.2 - VALVE S-D

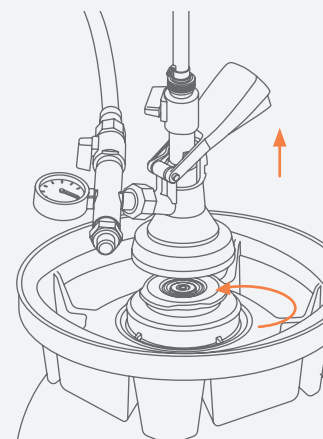


FIG. 8.3 - VALVE G-K

Quickly lift the lever and disconnect the coupler from the keg.

13. Valve sanitizing

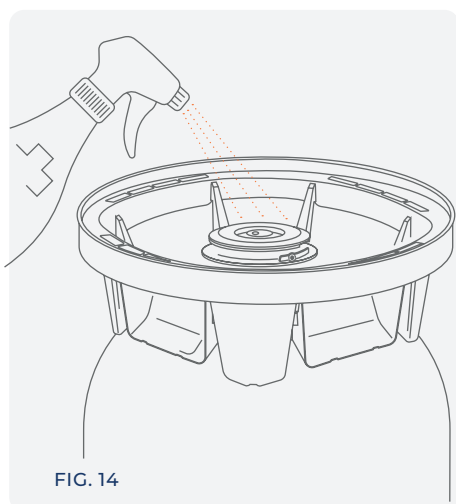


FIG. 14

Remove any residual product with water, sanitize the external part of the valve as per the "Sanitization instructions" section and dry same.

14. Seal application

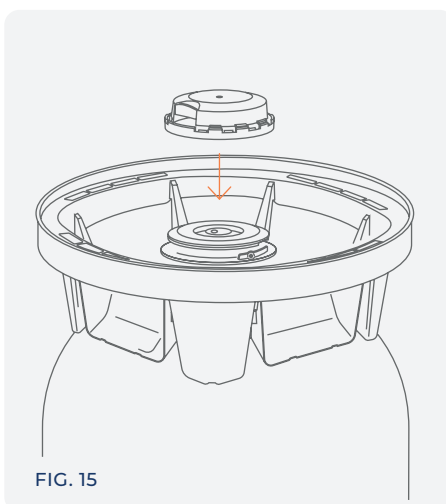


FIG. 15

Apply the keg seal.

SECTION 8



TAPPING INSTRUCTIONS

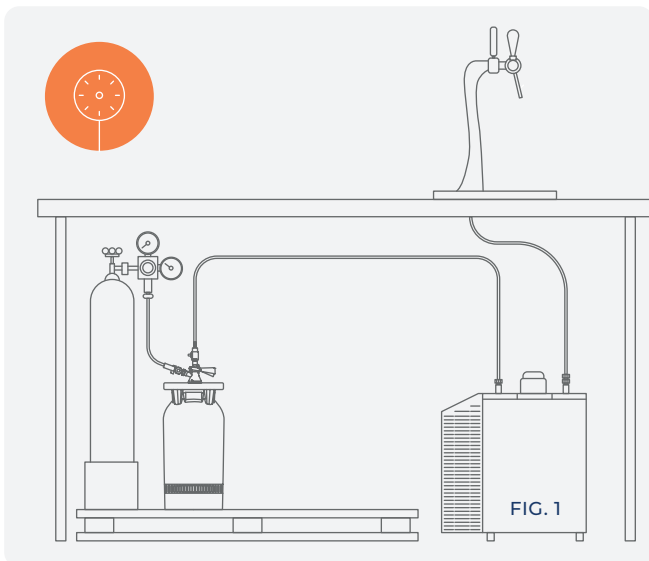


When handling the keg, please wear personal protective equipment (goggles, gloves, etc.) and make sure the room where you are working is ventilated, as specified in the “Warnings” section. The tapping system must be equipped with a pressure regulator and a properly calibrated safety valve.

Always make sure that the setting and working pressures of your tapping system are correctly set and do not exceed the maximum nominal value, as stated in the “Warnings” section.

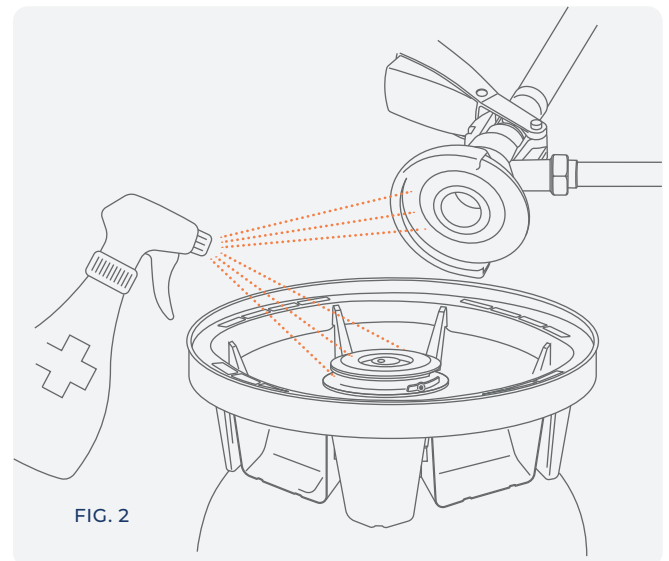
TAPPING PROCEDURE

1. Pressure check



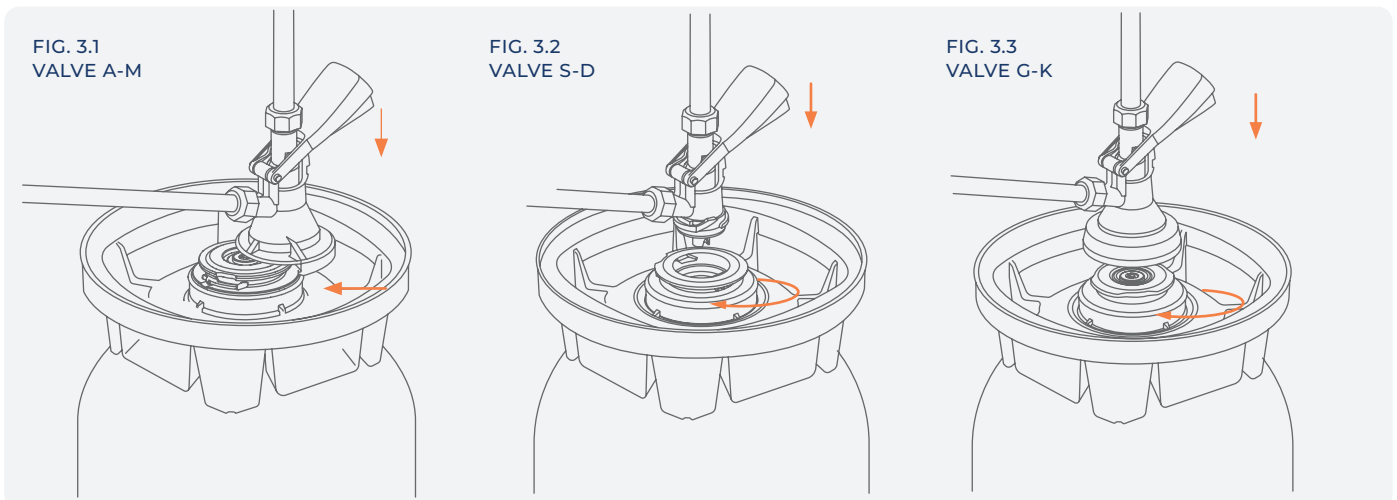
Before connecting the keg, please check that the tapping system is in order, sanitized and that the pressures are set correctly

2. Sanitizing



Sanitize the coupler surface that is in contact with the product, remove the seal and sanitize the external part of the valve, as mentioned in the “Sanitizing instructions” section.

3. Connection



Connect the coupler to the keg valve and start tapping.



4. Uncoupling

FIG. 3.1
VALVE A-M

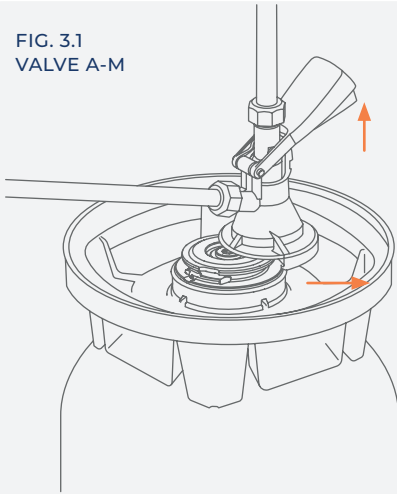


FIG. 3.2
VALVE S-D

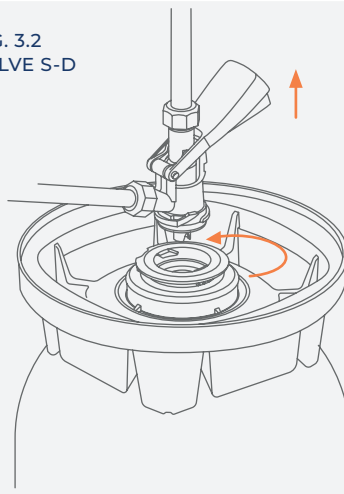
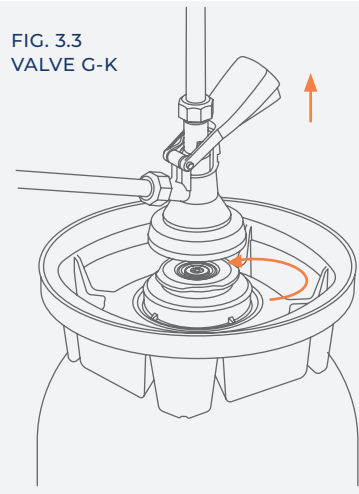
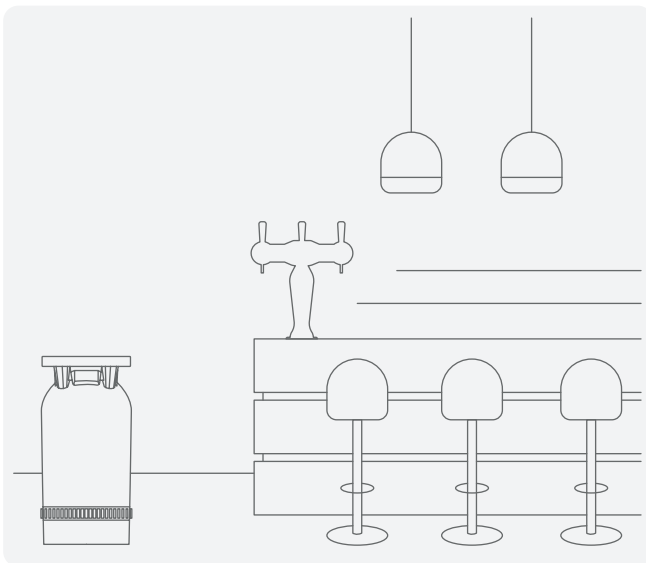


FIG. 3.3
VALVE G-K



Once empty, disconnect the keg from the tapping system.

5. Empty keg management



Disconnect the empty keg from the tapping system and proceed with its depressurization, as indicated in the “Depressurization Instructions” section.



Should it be necessary to temporarily disconnect the keg, clean and sanitize the valve as shown in the “Sanitizing instructions” section. Handle and store the keg according to the instructions in the “Warnings” section. To start tapping again, repeat the procedure from step 1.

SECTION 9

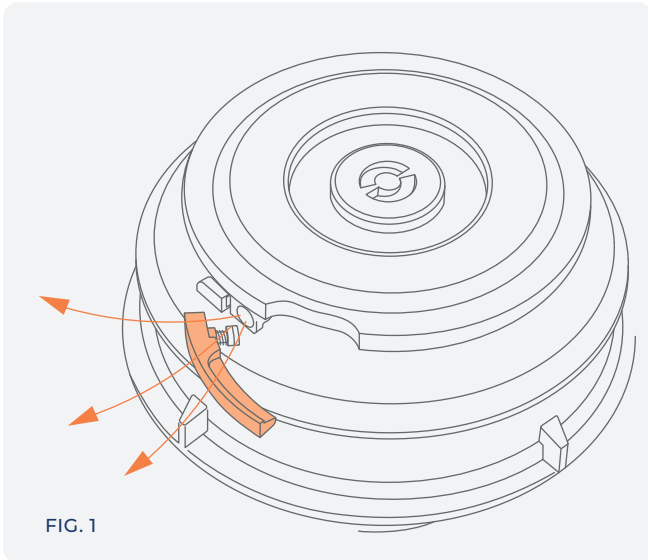


DEPRESSURIZATION INSTRUCTIONS



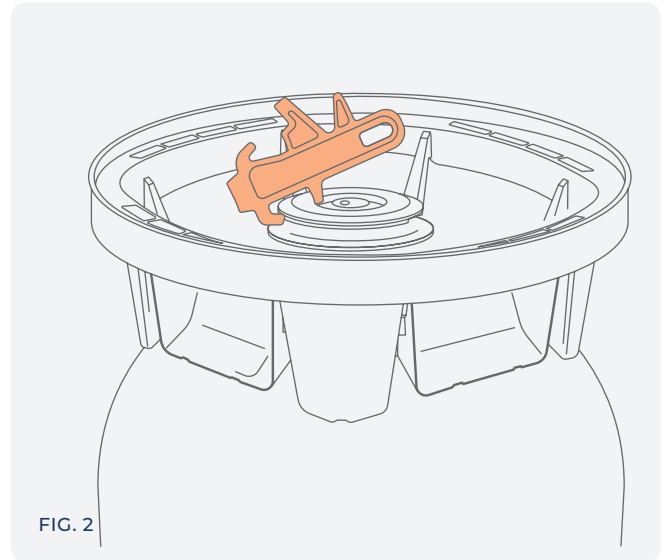
When handling the keg, please wear personal protective equipment (goggles, gloves, etc.) and make sure the room where you are working is ventilated, as mentioned in the "Warnings" section.

1. Depressurization procedure with PRV



Once tapped, the empty keg must be depressurized immediately by breaking off the red PRV — pressure relief valve - lever.

2. Depressurization procedure without PRV

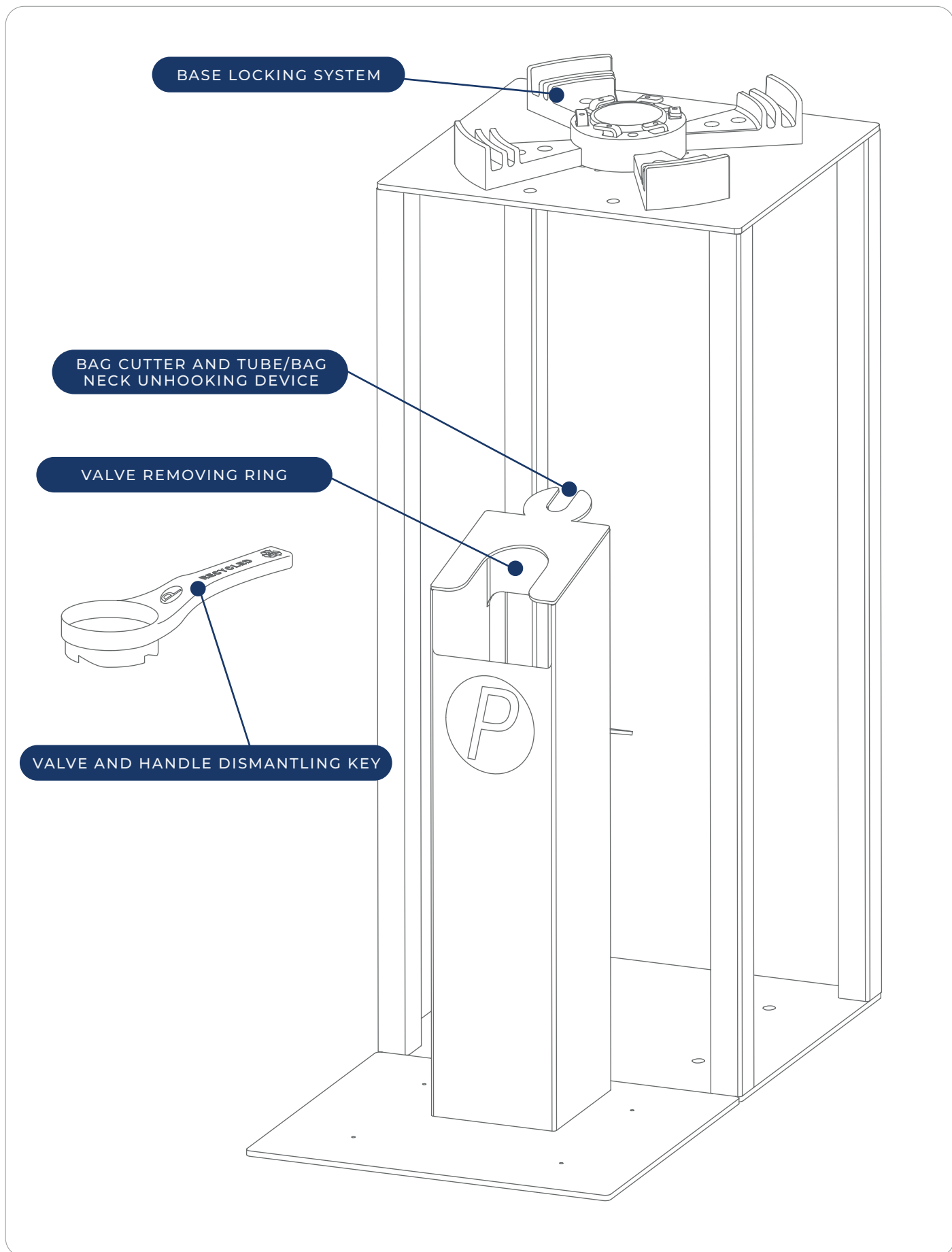


If the keg has no PRV, please use the dedicated depressurization key. It is suitable for all types of PolyKeg® valves: A, D, G, K, M, S.

SECTION 10



DISMANTLING INSTRUCTIONS

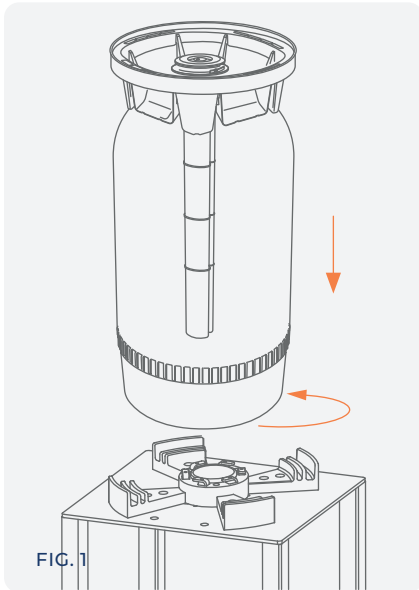




The keg must be depressurized immediately after use and in all cases before being dismantled. The PolyKeg PRO keg can be easily dismantled as shown below, in order to make the materials recycling easier (please refer to the "Materials sheet").

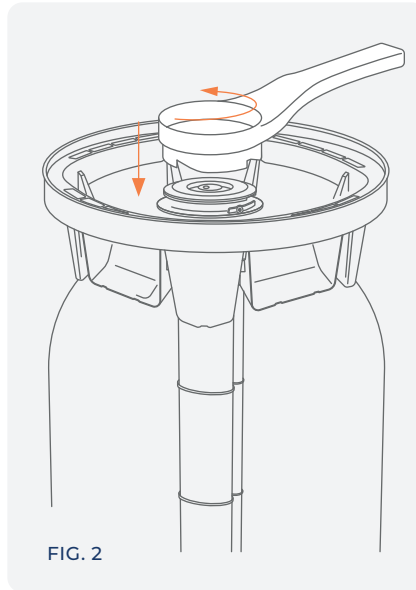
DISMANTLING PROCEDURE

1. Keg locking



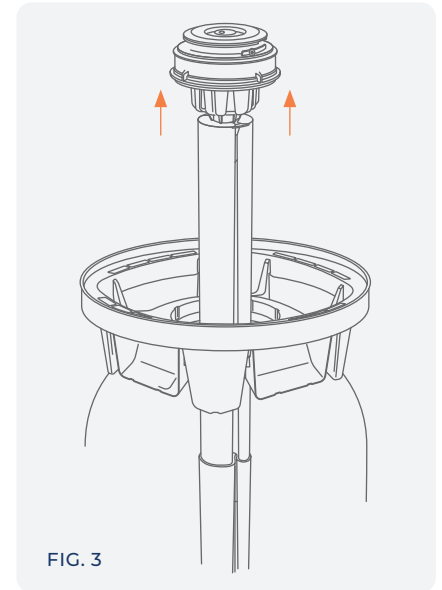
Hook the depressurized keg to the device surface.

2. Valve removal



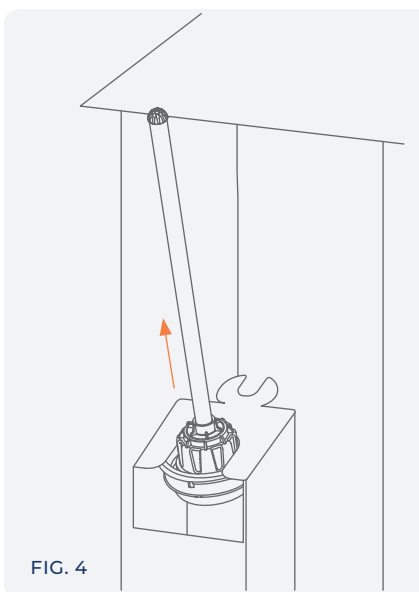
Unscrew the valve using the dedicated dismantling key.

3. Valve extraction with dip tube or bag kit

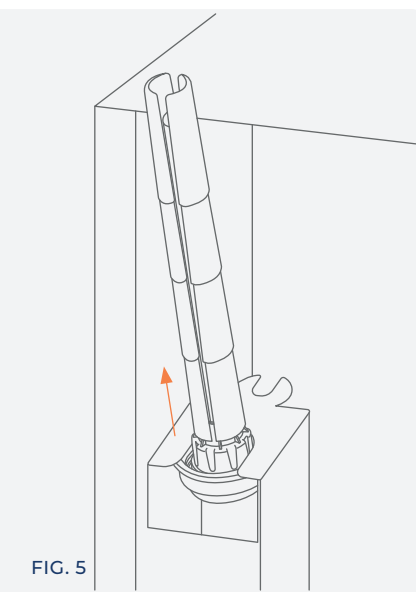


Pull out of the bottle the valve and the dip tube, or the valve and the bag kit.

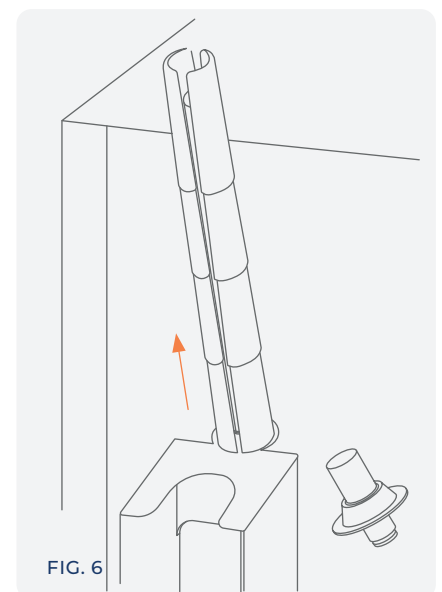
4. Valve from dip tube or from bag kit separation



Hook the valve to the ring and then detach it from the dip tube or from the bag kit.

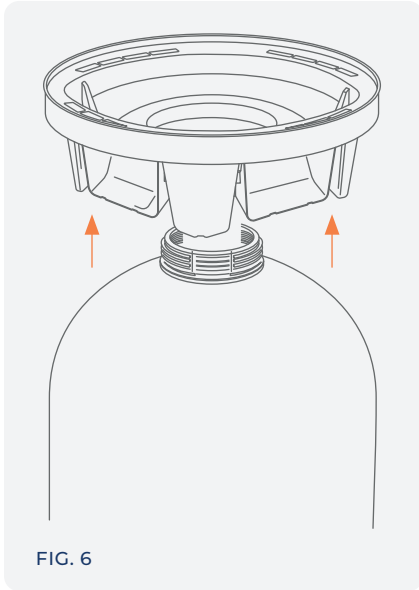


3. Dip tube from bag separation



Hook the bag kit to the ring and separate the dip tube and bag from the bag neck.

6. Handle removal



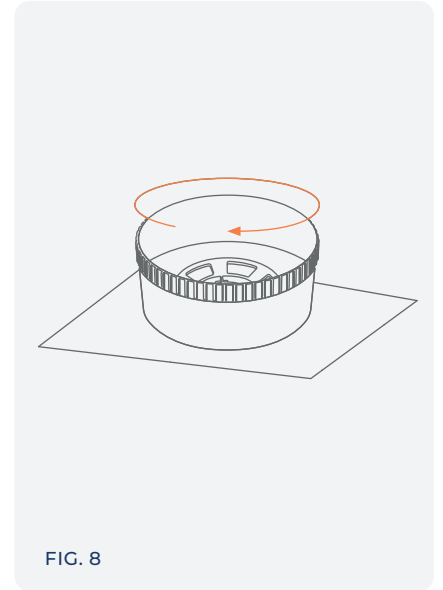
Remove the keg handle.

7. Base removal



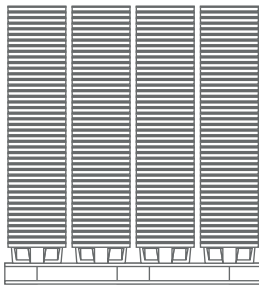
Push the bottle until the base comes out.

8. Base unlocking

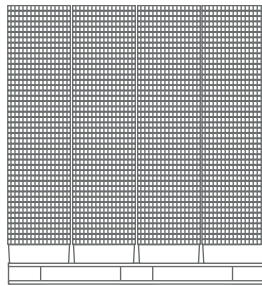


Unhook the base of the keg from the device surface.

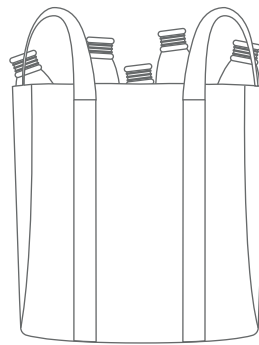
9. Sorted keg components



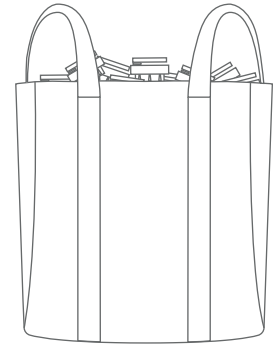
HANDLES



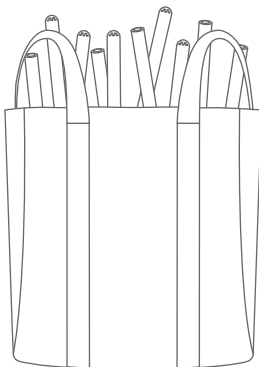
BASES



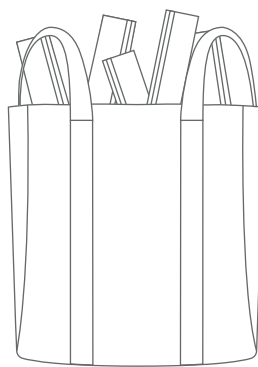
BOTTLES



VALVES



DIP TUBES



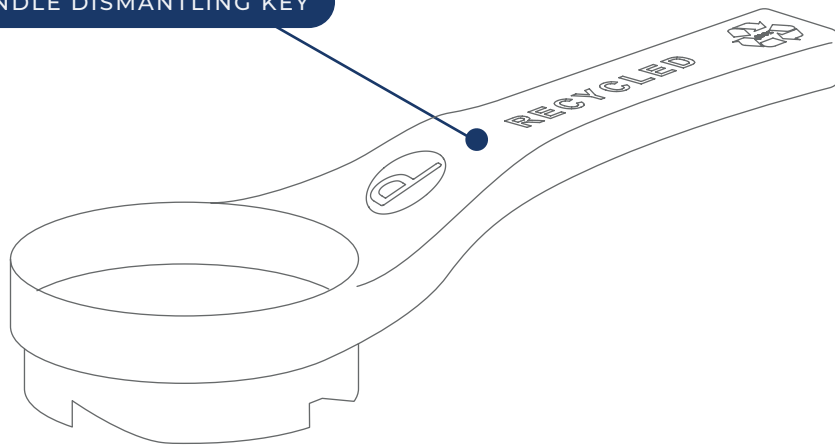
BAGS



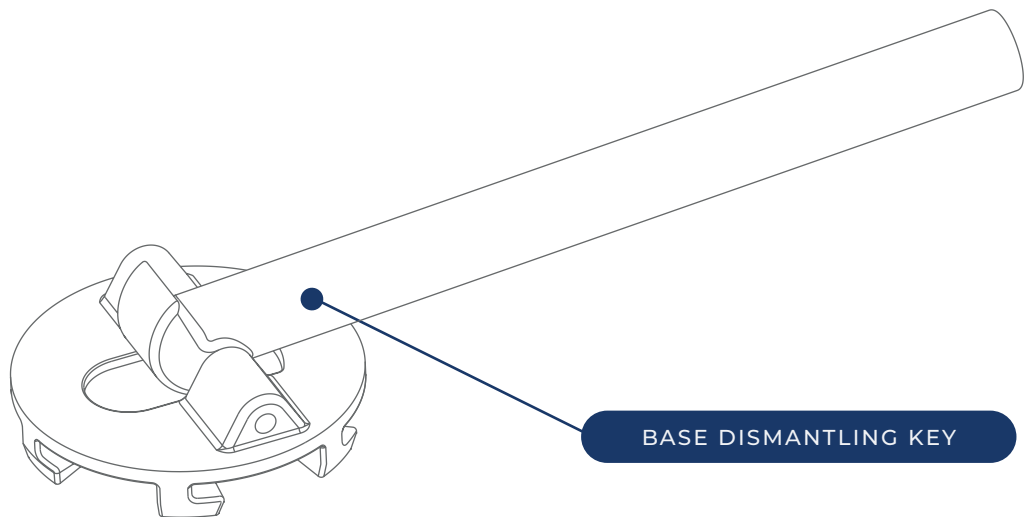
BAG NECKS

Store the keg components in appropriate boxes at the end of each step.

VALVE AND HANDLE DISMANTLING KEY



BASE DISMANTLING KEY

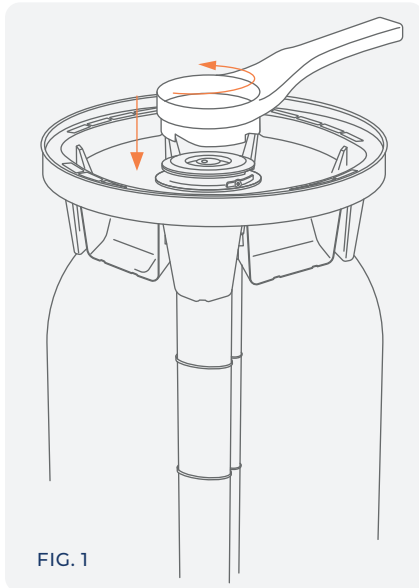




The keg must be depressurized immediately after use and in all cases before being dismantled. The PolyKeg PRO keg can be easily dismantled as shown below, in order to make the materials recycling easier (please refer to the "Materials sheet").

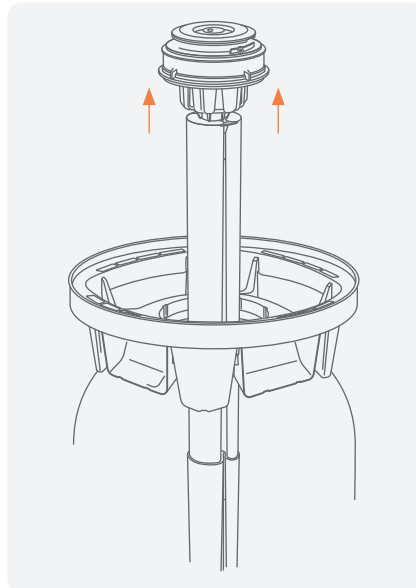
DISMANTLING PROCEDURE

1. Valve removal



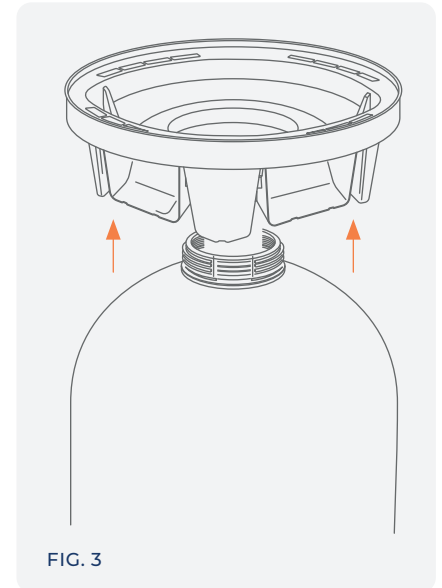
Unscrew the valve using the dedicated dismantling key

2. Valve extraction with dip tube or bag kit



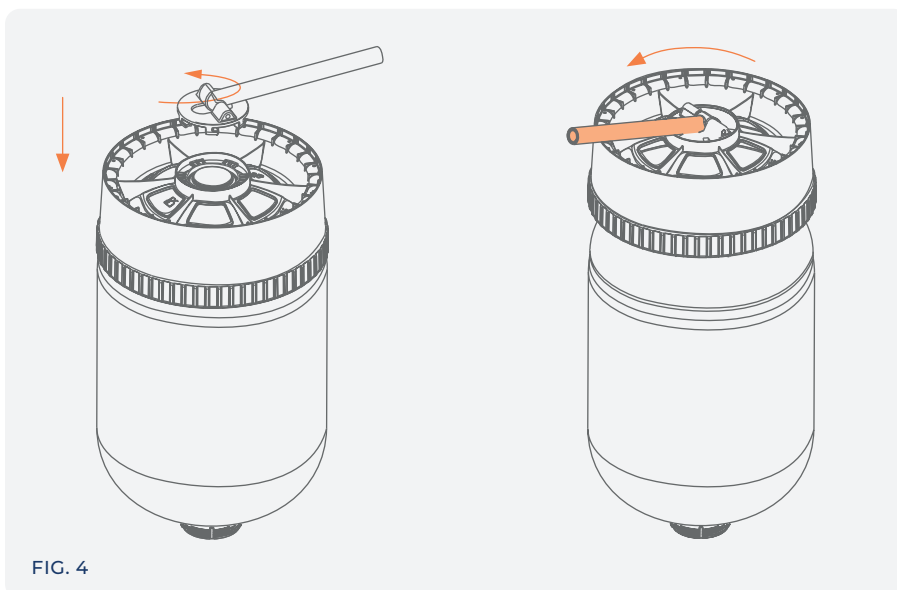
Pull out of the bottle the valve and the dip tube, or the valve and the bag kit.

3. Handle removal



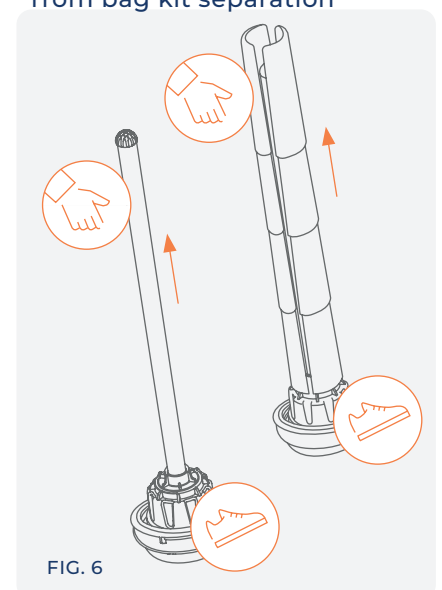
Remove the keg handle.

4. Base – keg detachment



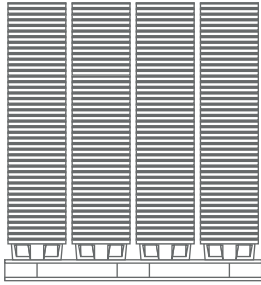
Lock the key on the base of the keg and turn the lever 180° anticlockwise.

5. Valve from dip tube or from bag kit separation

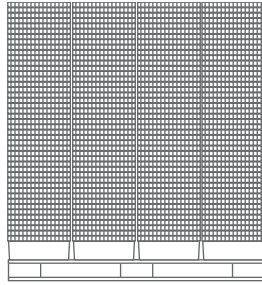


Remove the valve from the tube or bag kit by holding the valve and pulling the tube or bag kit towards you.

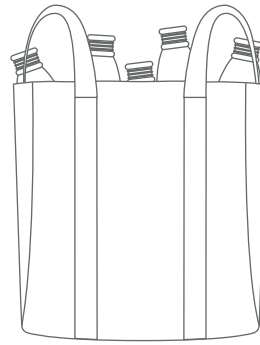
6. Sorted keg components



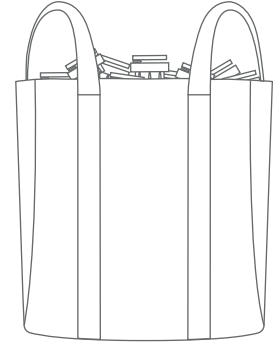
HANDLES



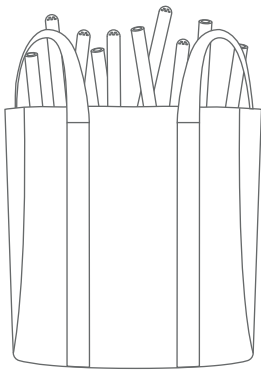
BASES



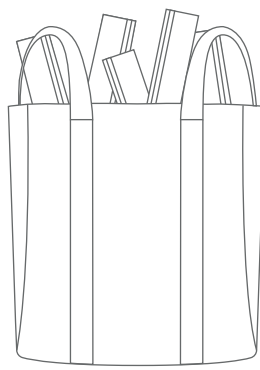
BOTTLES



VALVE



DIP TUBES



BAGS



BAG NECKS

Store the keg components in appropriate boxes at the end of each step.









SECTION 11



MATERIALS AND SYMBOLS SHEET
POLYKEG PRO








Below you can find the list of materials and related symbols according to the requirements defined by Directive 94/62/EC (art. 8) and based on the European Community Decision 97/129/EC ss.mm.ii.

1. POLYKEG PRO WITH BAG

Component	Material	Classification 129/97/CE	Symbol	Waste sorting
1 Seal	Polypropylene	PP 5		Plastic
2 Valve	Other plastic	Other 7		Plastic
3 Handle	Recycled Polypropylene (R-PP)	PP 5		Plastic
4 Bag Kit: Bag + adapter	Alluminium Polyethylene Nylon	C/LDPE 90		Plastic
Tube + stopper	Polypropylene	PP 5		
5 Bottle	Polyethylene terephthalate	PET 1		Plastic
6 Label	Polypropylene	PP 5		Plastic
7 Base	Recycled Polypropylene (R-PP)	PP 5		Plastic




*Follow local waste disposal regulations.

2. POLYKEG PRO WITHOUT BAG

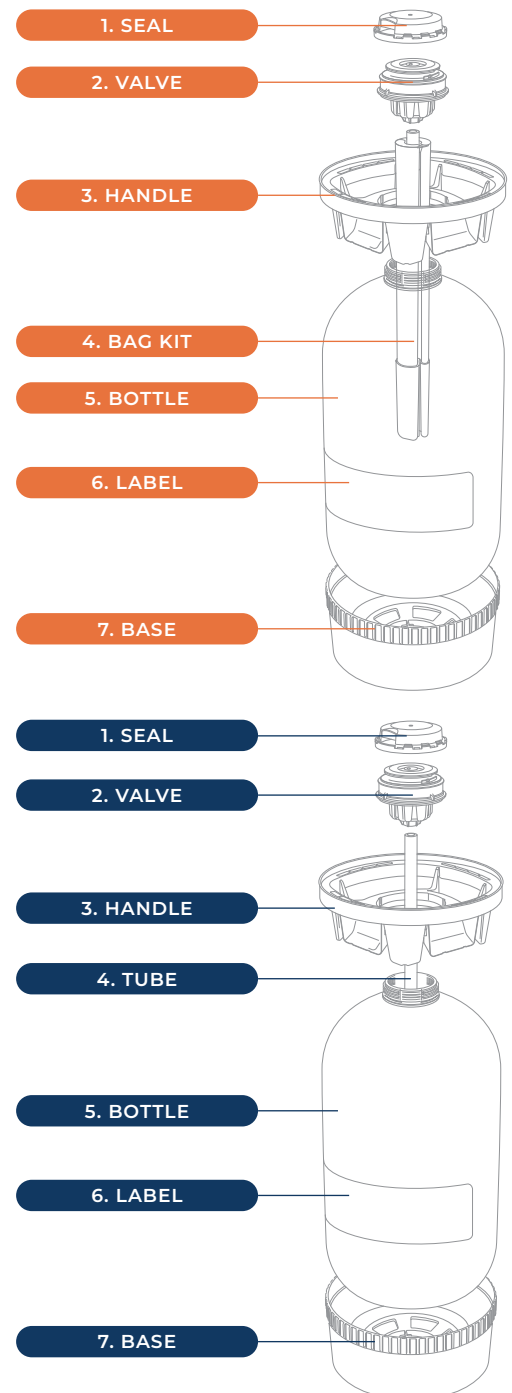
Component	Material	Classification 129/97/CE	Symbol	Waste sorting
1 Seal	Polypropylene	PP 5		Plastic
2 Valve	Other plastic	Other 7		Plastic
3 Handle	Recycled Polypropylene (R-PP)	PP 5		Plastic
4 Tube	Polypropylene	PP 5		Plastic
5 Bottle	Polyethylene terephthalate	PET 1		Plastic
6 Label	Polypropylene	PP 5		Plastic
7 Base	Recycled Polypropylene (R-PP)	PP 5		Plastic

*Follow local waste disposal regulations.

3. PACKAGING

Component	Material	Classification 129/97/CE	Symbol	Waste sorting
Stretch film + Cover pallet + Bags	Polyethylene	PE-LD 4		Plastic
Pallet	Wood	FOR 50		Wood
Boxes	Corrugated fiberboard	PAP 20		Paper

*Follow local waste disposal regulations.





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