



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

SECTION 1

Warnings



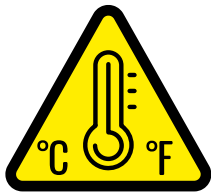
The PolyKeg PRO one-way keg is intended for **professional use only**. Please refer to this Instruction Manual and the symbols on the keg before use.

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**, it should be depressurised immediately and disposed of responsibly after use at **authorised collection points**.



0÷35 °C - 32÷95 °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 unsuitable chemicals or cleaning substances with PH > 9. 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.



SECTION 2

Packing and keg identification

SECTION 2

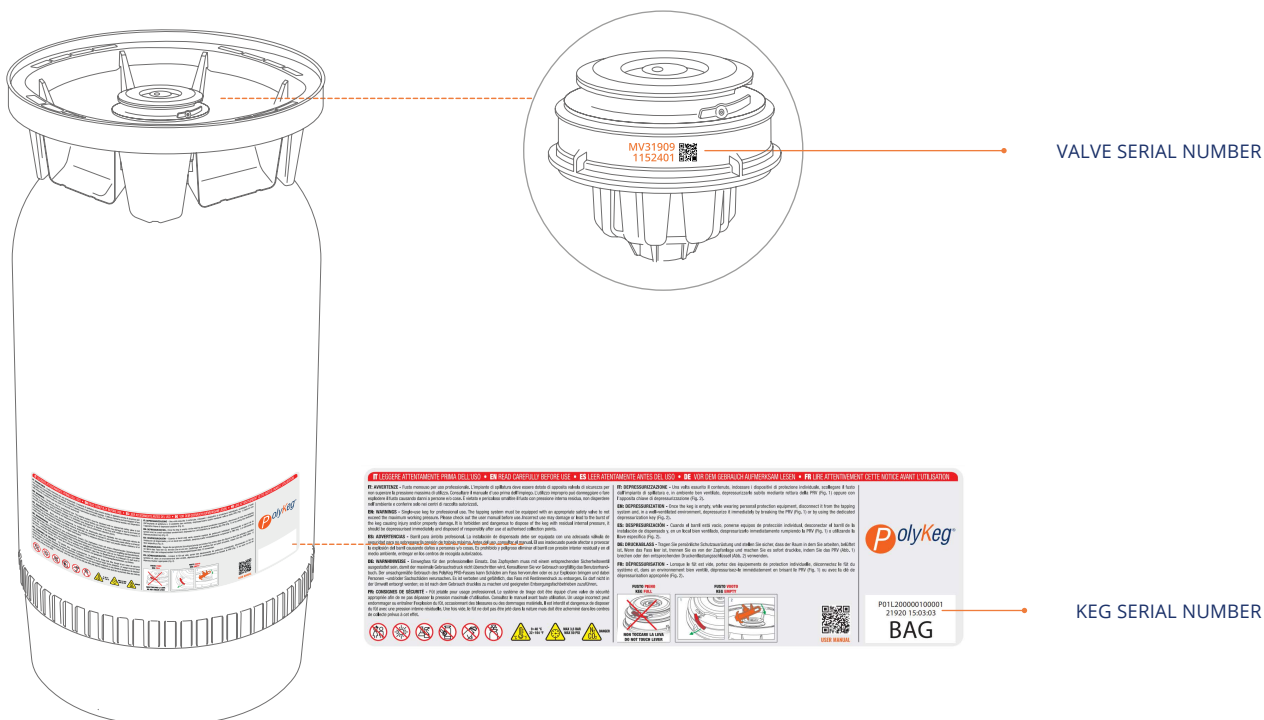
Packing and keg identification



PALLET STANDARD IDENTIFICATION



VALVE AND KEG IDENTIFICATION























SECTION 3

Valves and couplers

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

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						
		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		20	20	20	16	12
Kegs per pallet		100	80	80	64	48
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	10	1000	800	600*	480*	360*
CTR 40 ft High Cube	22	2200	1760	1760	1408	1056
CTR 45 ft High Cube	26	2600	2080	2080	1664	1248
Truck 13,6 mt	26	2600	2080	2080	1664	1248

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.

SECTION 4

PolyKeg® PRO logistics data sheets



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



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.

When stacking pallets, the load must be evenly distributed by using a rigid interlayer or an overturned pallet between one pallet and another.

We recommend wrapping the kegs on pallets with white stretch film for better protection.

SECTION 4

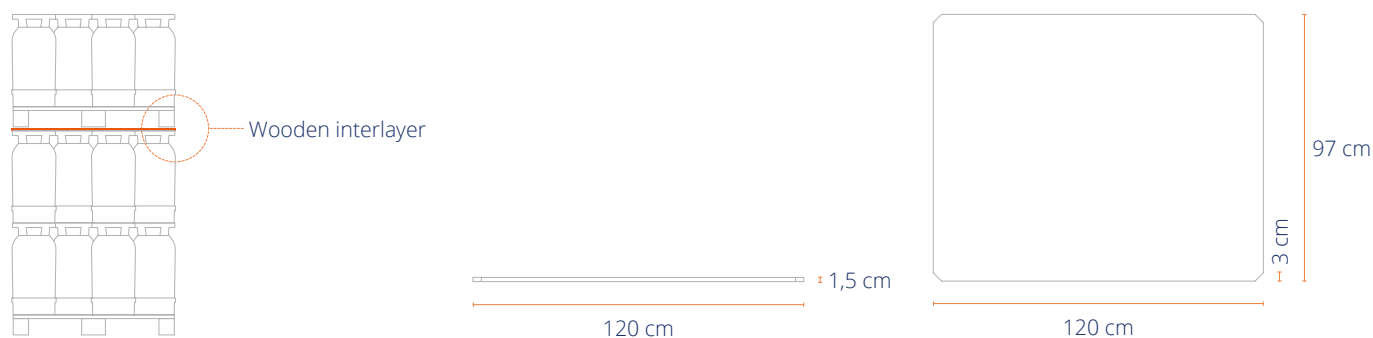
PolyKeg® PRO logistics data sheets



FILLED KEGS PALLETIZATION

PALLET 100X120 CM | 39.37"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



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.

When stacking pallets, the load must be evenly distributed by using a rigid interlayer or an overturned pallet between one pallet and another.

We recommend wrapping the kegs on pallets with white stretch film for better protection.

SECTION 4

PolyKeg® PRO logistics data sheets



LOADING RECOMMENDATIONS

PALLET 80X120 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 | 39.37"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

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 B AR



Maximum
temperature

85°C



Maximum
temperature

85°C

OR

Steam



Maximum pressure
on the valve

0,8 B AR



Maximum
temperature

100°C



Maximum
time

3 SECONDS

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

POLYKEG PRO WITH BAG

Filling instructions with
PolyKeg® manual kit

SECTION 6

POLYKEG PRO WITH BAG

Filling instructions with PolyKeg® manual kit



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

- 1 Gas tube
- 2 Pressure top-up connection
- 3 Pressure top-up gauge
- 4 Pressure gauge
- 5 Gas regulator connection
- 6 Counter-pressure regulator
- 7 Product tube
- 8 Product filling connection
- 9 Product filling valve
- 10 Keg coupler (Micro Matic is recommended)

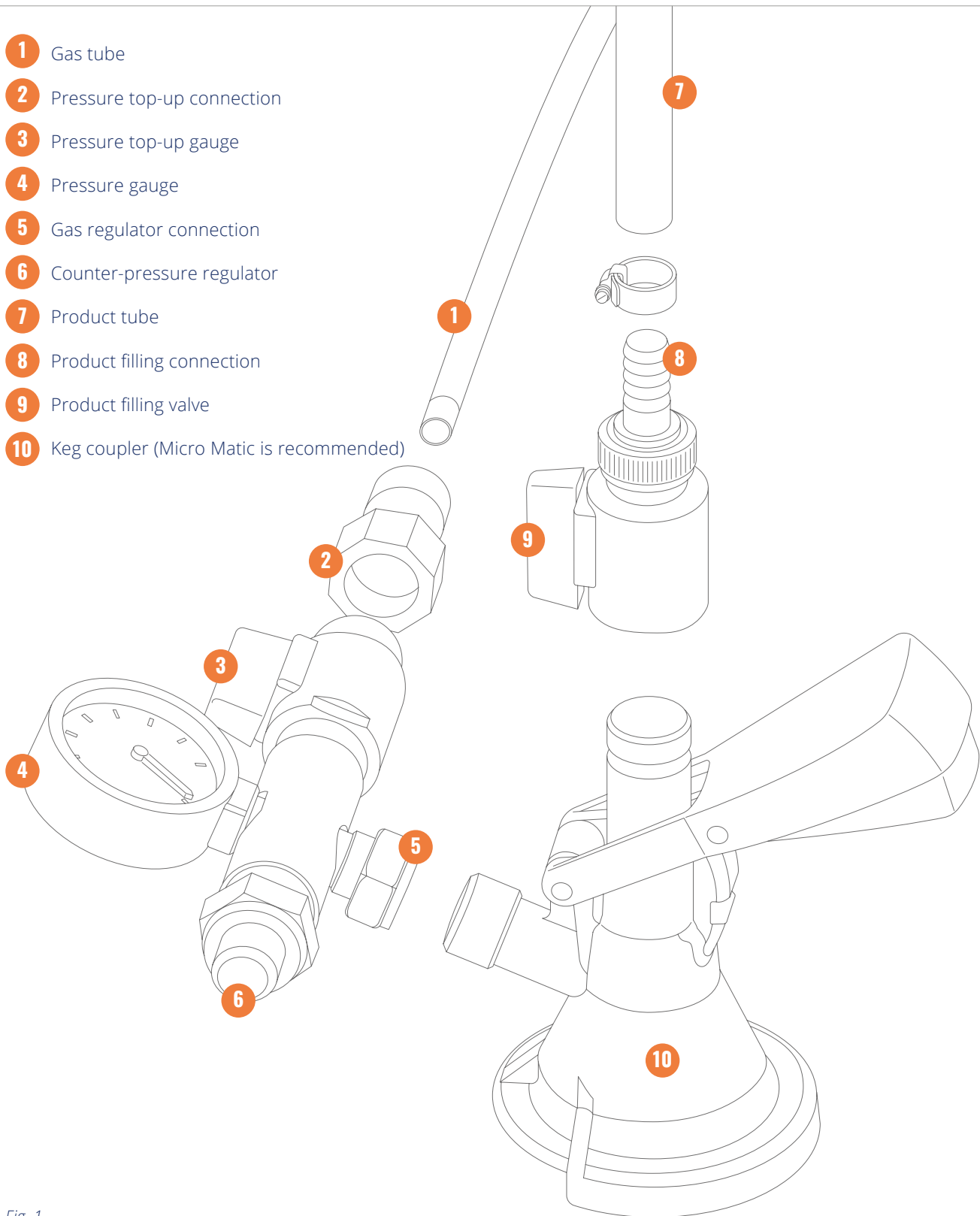


Fig. 1

SECTION 6

POLYKEG PRO WITH BAG

Filling instructions with PolyKeg® manual kit



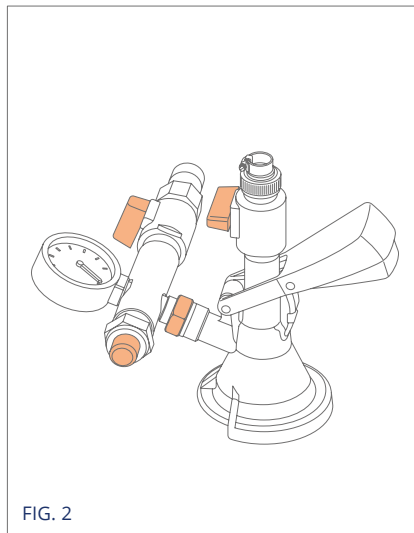
PREPARATION

1. Sanitizing



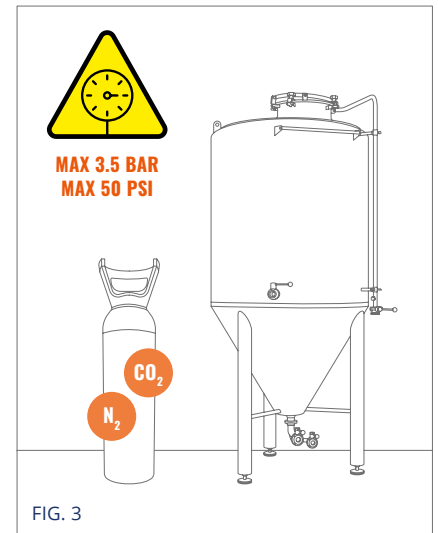
Disassemble the PolyKeg® filling kit and sanitize the components as indicated in the “Sanitizing Instructions” section.

2. Assembly



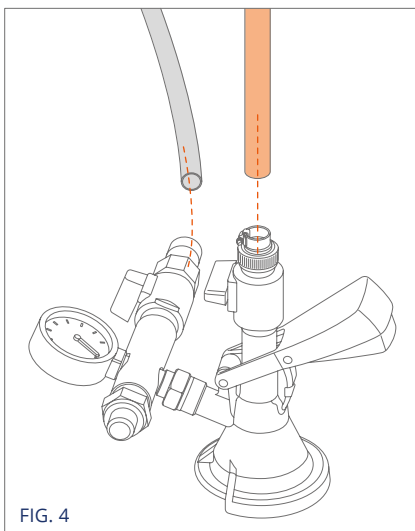
Reassemble the kit properly and close all valves.

3. Gas and product pressure check



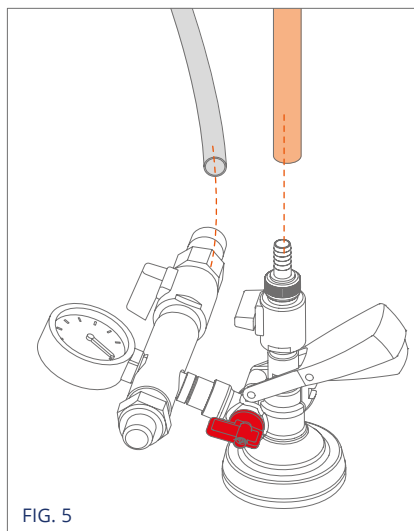
Check that the pressures of the filling system are correctly set and below the maximum value indicated. (3.5 bar/50 psi).

4. Gas and product tube connection



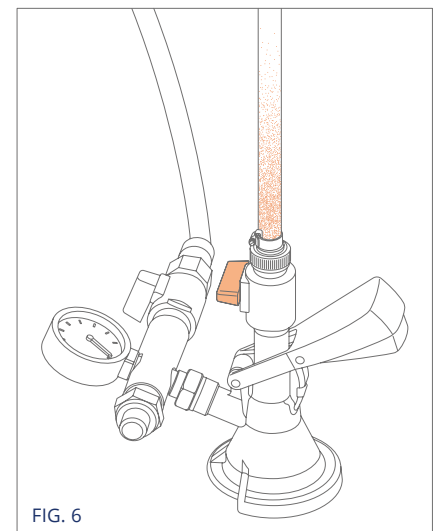
Connect the product and gas tubes to the filling kit.

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.

SECTION 6

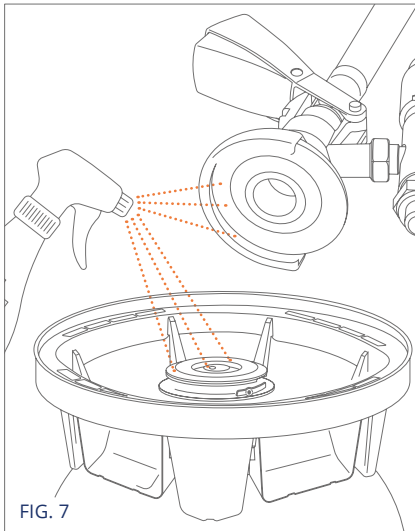
POLYKEG PRO WITH BAG

Filling instructions with PolyKeg® manual kit



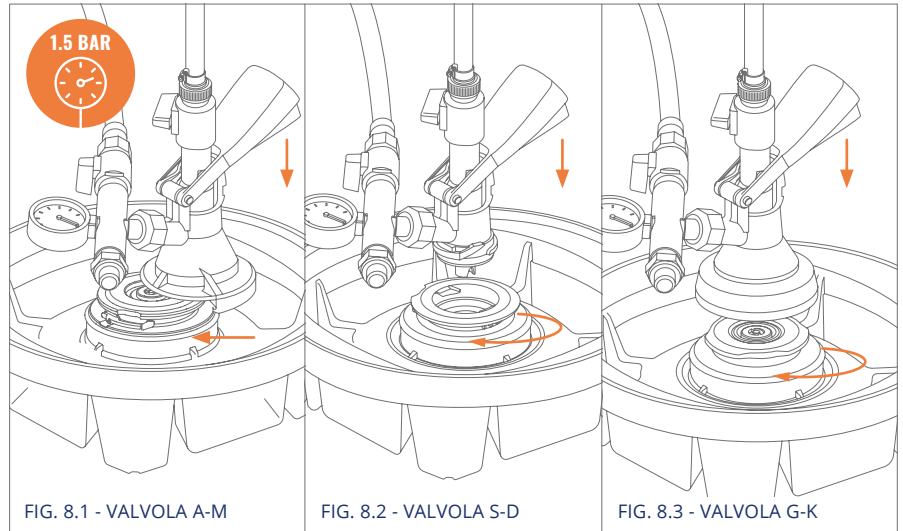
FILLING

7. Sanitizing



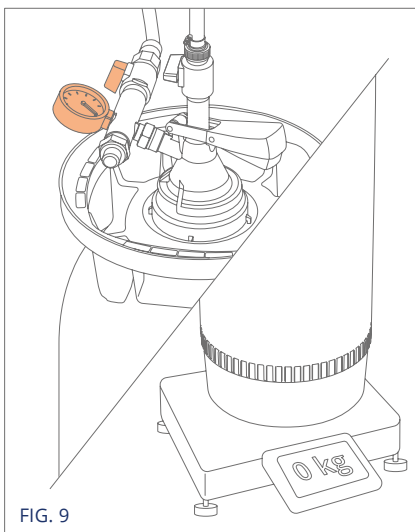
Before filling, sanitize the parts in contact with the product as indicated in the "Sanitizing instructions" section.

8. Connection and Counter-Pressure Check



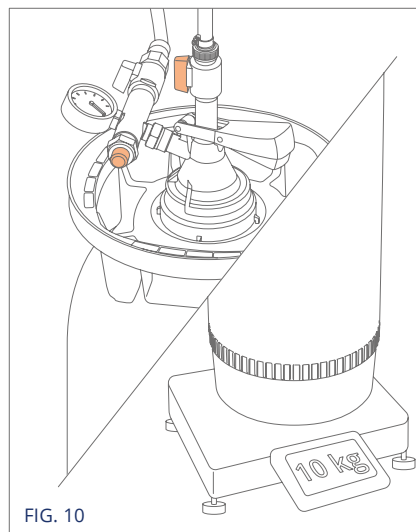
Make sure the filling head is properly connected to the valve, lower the lever and check the internal pressure of the keg.

9. Counter-pressure regulation



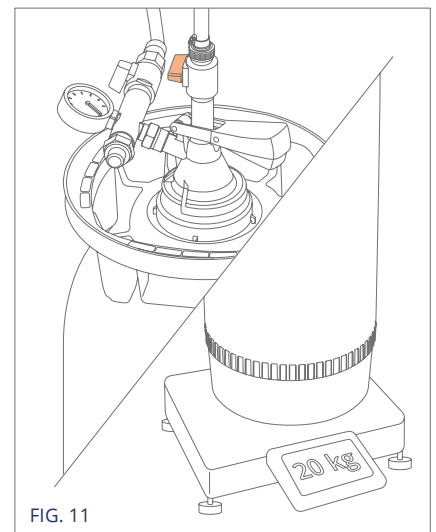
Work with the gas valve until the desired counter pressure is reached (approx. 0.5 bar lower than the product filling pressure).

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.

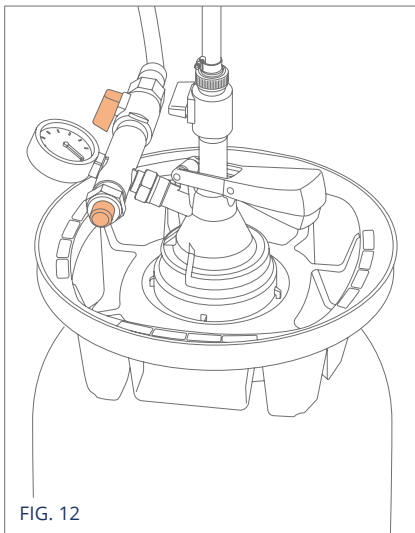
SECTION 6

POLYKEG PRO WITH BAG

Filling instructions with PolyKeg® manual kit

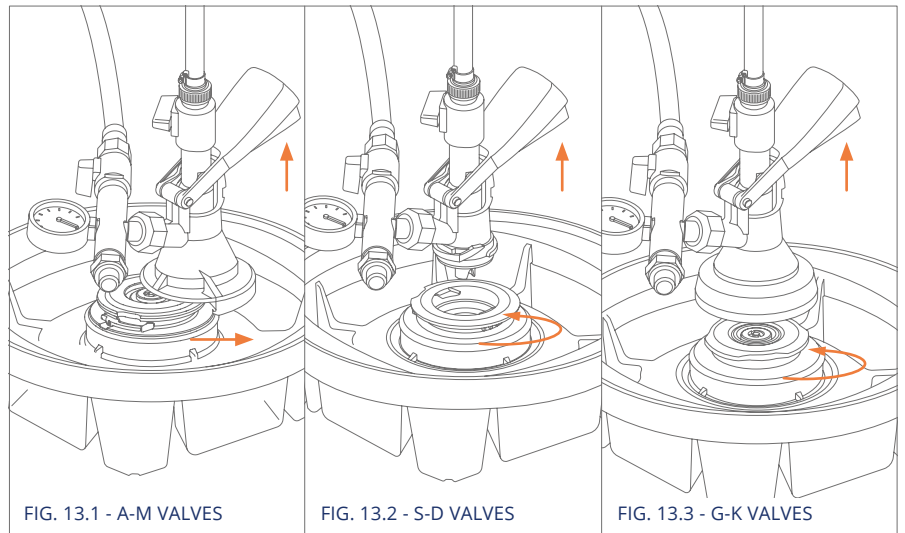


12. Pressure balance



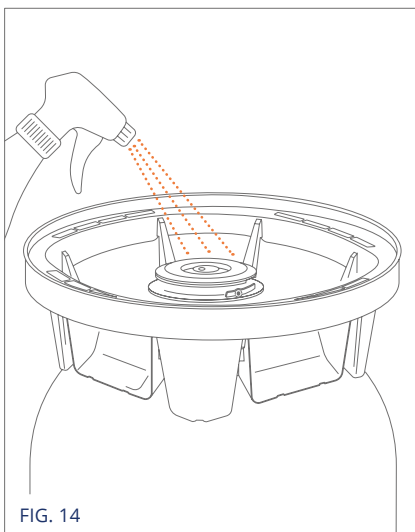
Close the regulator and work on the gas valve to increase the counter-pressure to a value slightly higher than the product filling value.

13. Uncoupling



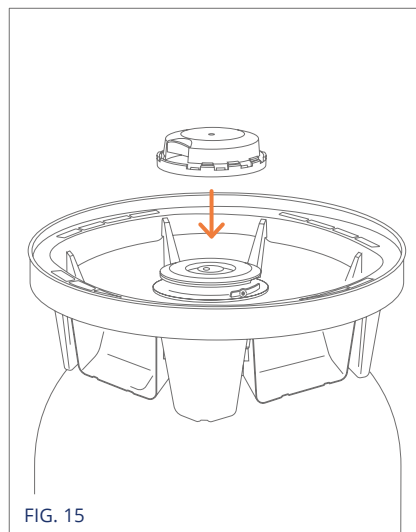
Quickly lift the lever and disconnect the coupler from the keg.

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

POLYKEG PRO WITHOUT BAG

Filling instructions with
PolyKeg® manual kit

SECTION 7

POLYKEG PRO WITHOUT BAG

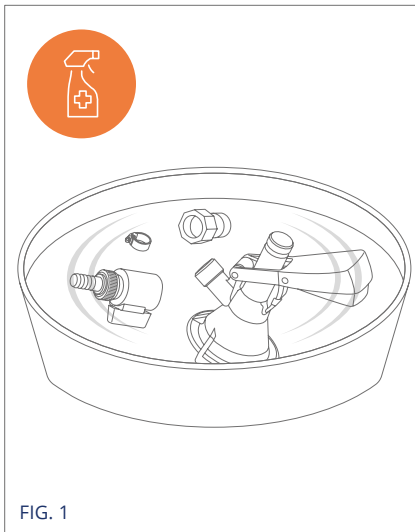
Filling instructions with PolyKeg® manual kit



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

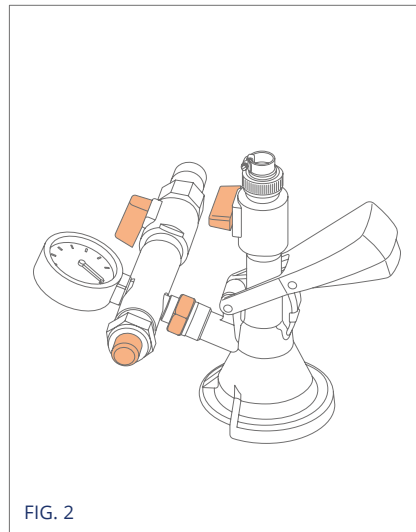
PREPARATION

1. Sanitizing



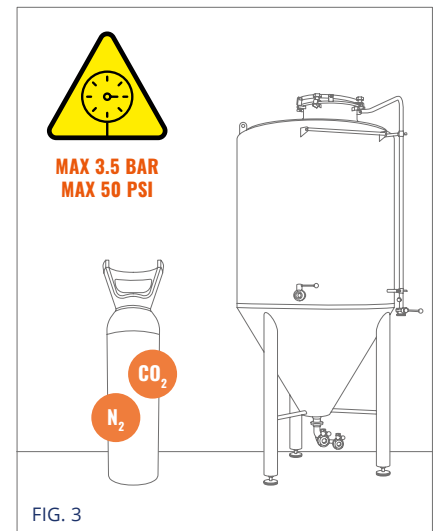
Disassemble the PolyKeg® filling kit and sanitize the components shown in the picture, following the sanitizing instructions found in "Section 5".

2. Assembly



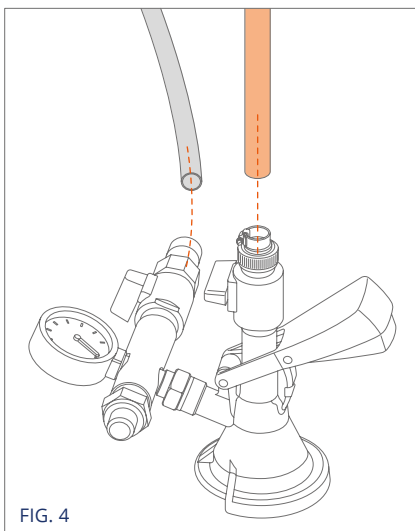
Reassemble the kit properly and close all valves.

3. Gas and product pressure check



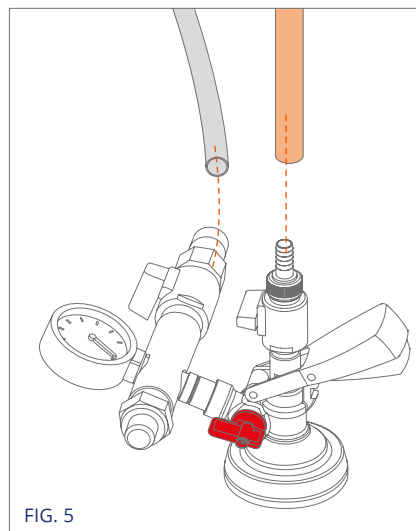
Check that both product and gas pressure in the tank does not exceed the maximum nominal working pressure (3.5 bar/ 50 psi).

4. Gas and product tubes connection



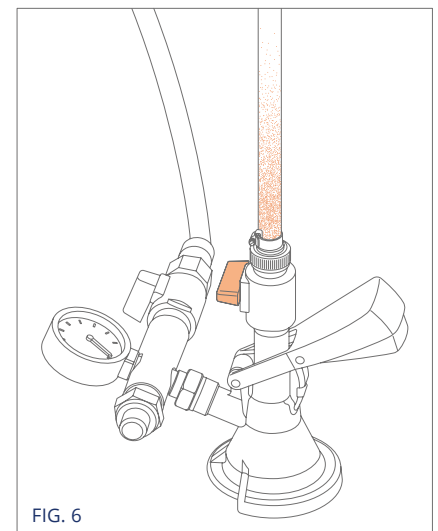
Connect the product and gas tubes to the filling kit.

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.

SECTION 7

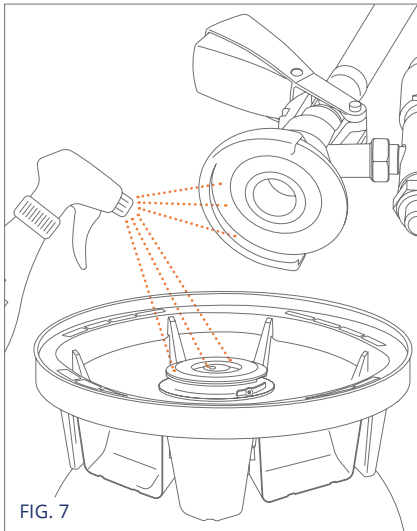
POLYKEG PRO WITHOUT BAG

Filling instructions with PolyKeg® manual kit



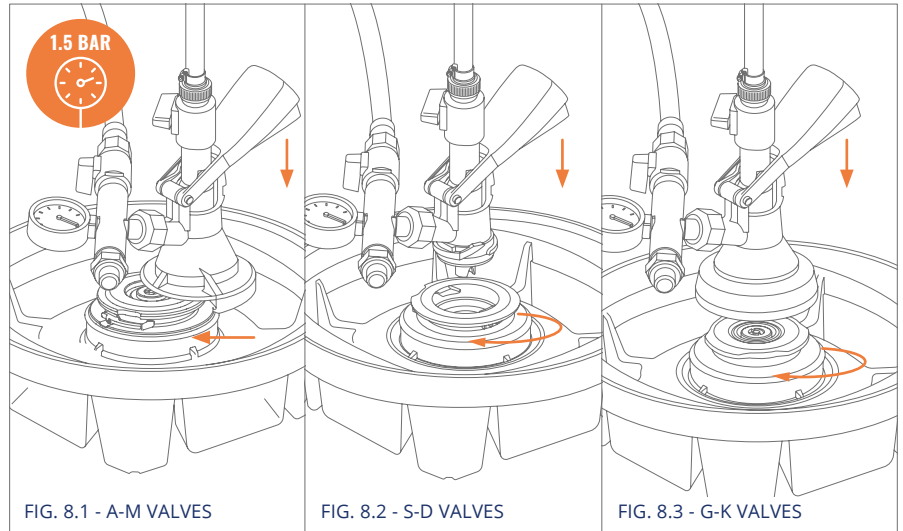
FILLING

7. Sanitizing



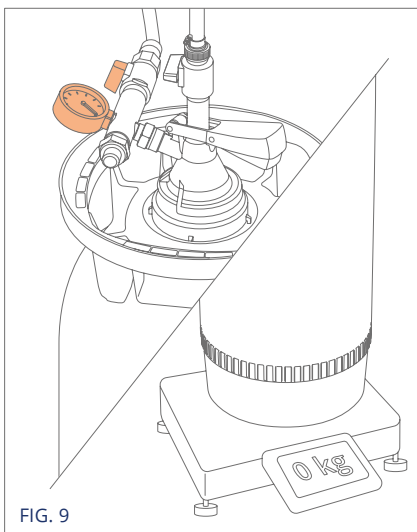
Before filling, sanitize the parts in contact with the product according to the "Sanitizing Instructions" section.

8. Filling head connection and counter-pressure check



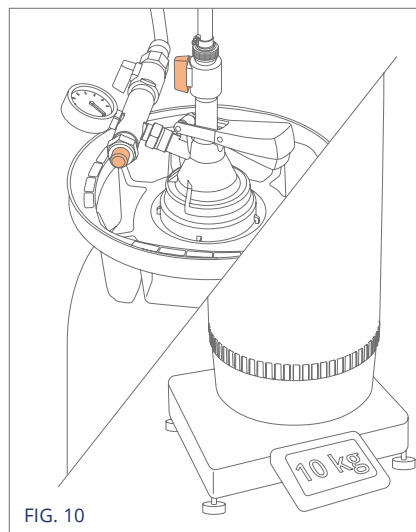
Connect properly the filling head to the valve, lower the lever and check the internal keg pressure.

9. Counter-pressure regulation



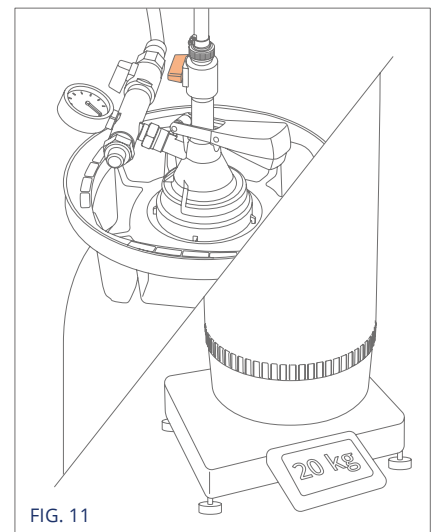
Work with the gas valve until the desired counter-pressure is reached (approx. 0.5 bar lower than the product filling pressure).

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.

SECTION 7

POLYKEG PRO WITHOUT BAG

Filling instructions with PolyKeg® manual kit



12. Uncoupling

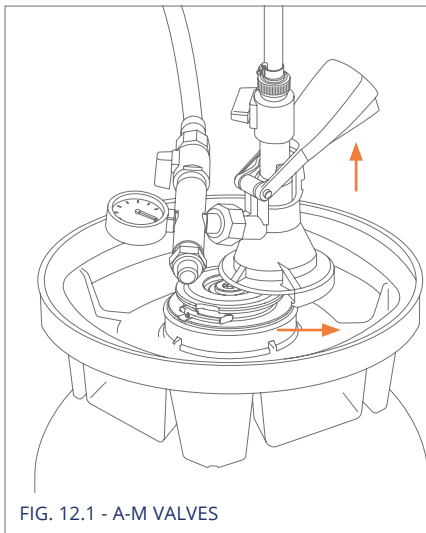


FIG. 12.1 - A-M VALVES

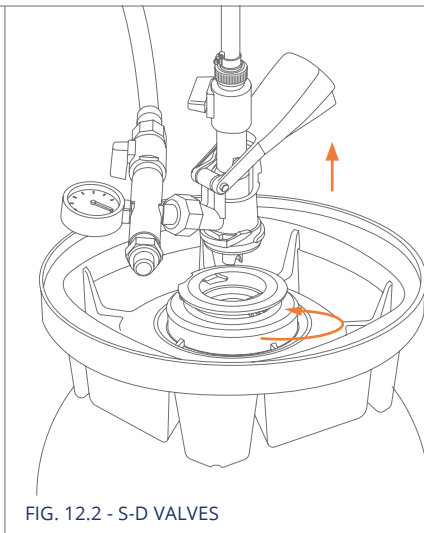


FIG. 12.2 - S-D VALVES

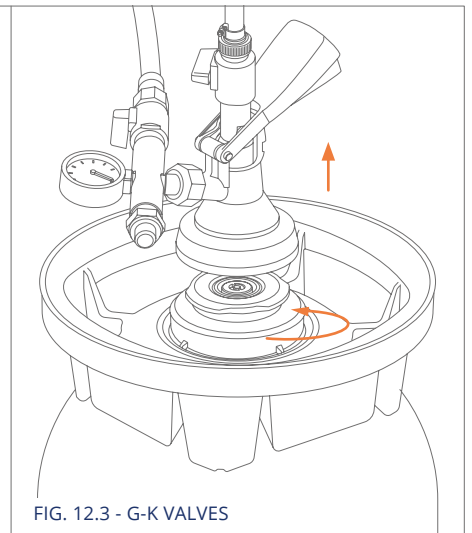


FIG. 12.3 - G-K VALVES

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

13. Valve sanitizing

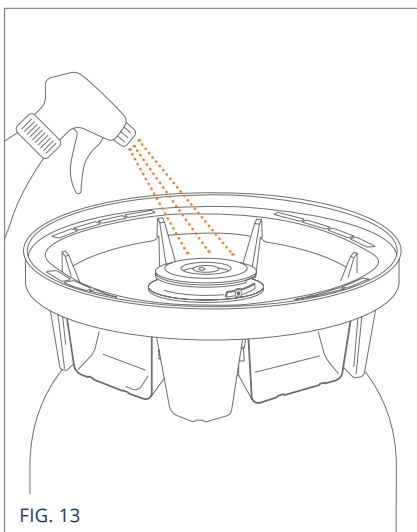


FIG. 13

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

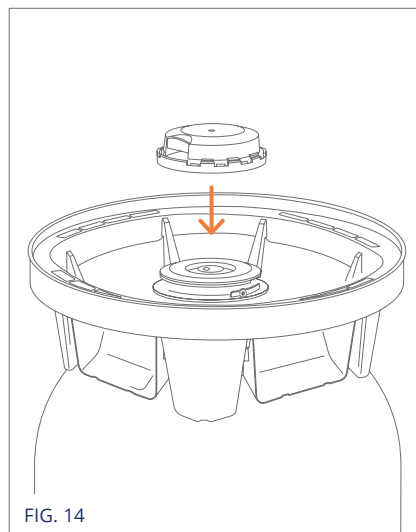


FIG. 14

Apply the keg seal.



SECTION 8

Tapping instructions

SECTION 8

Tapping instructions



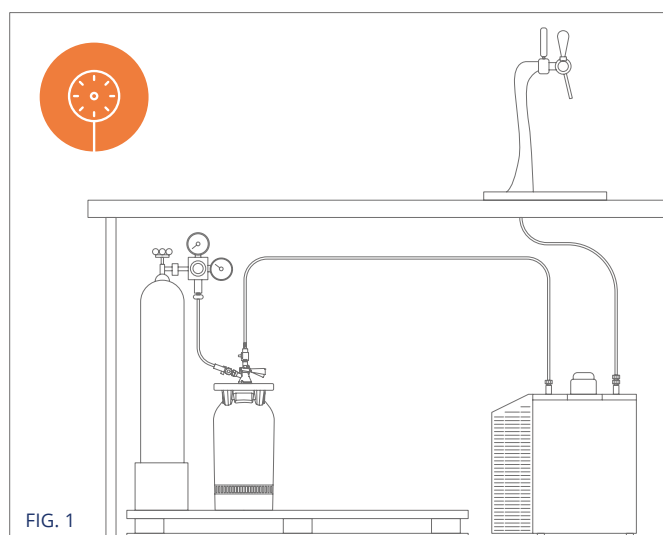
When handling the keg, please wear personal protective equipment (goggles, gloves, etc.) and make sure the room where you are working is ventilated, as specified in the “Warnings” section.

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.

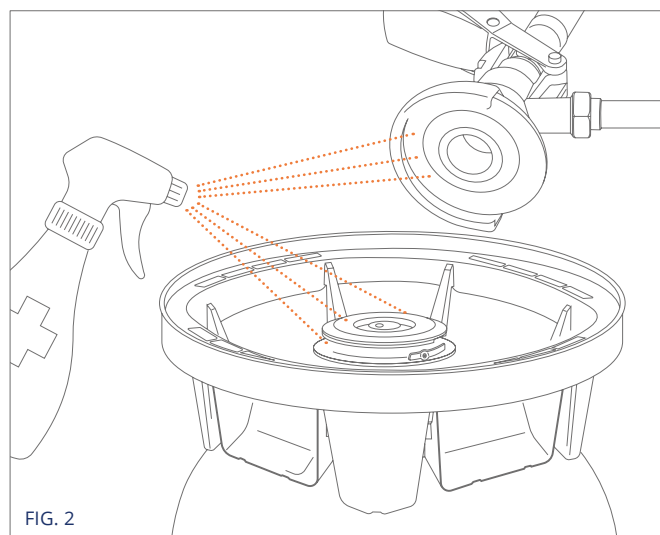
TAPPING PROCEDURE

1. Pressure check



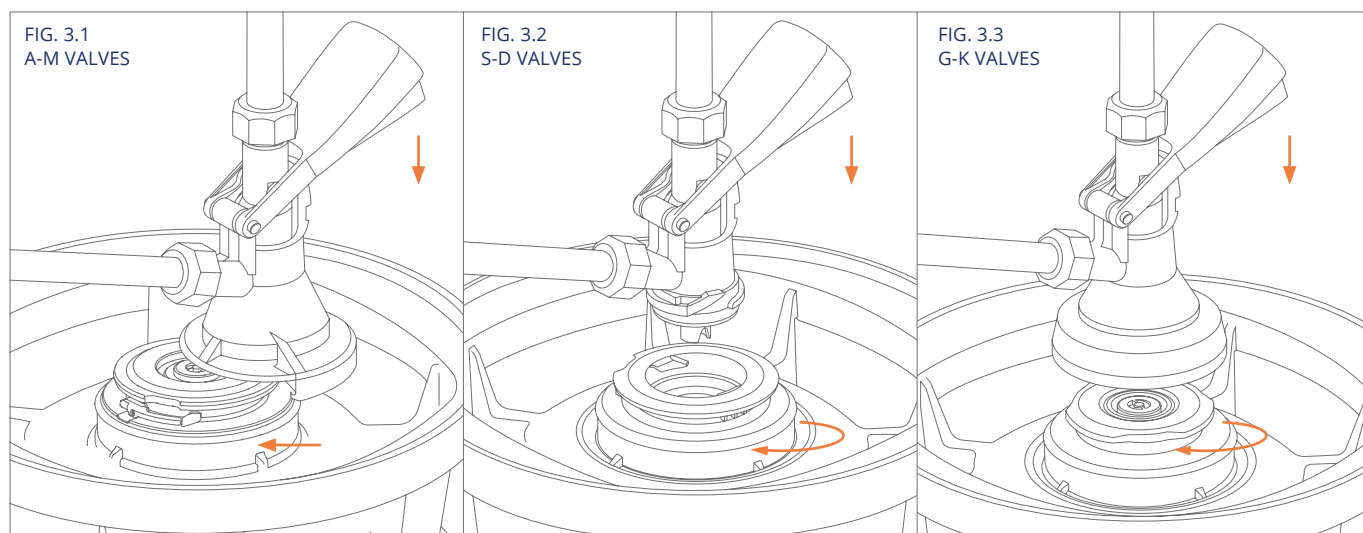
Before connecting the keg, please check that the tapping system is in order, sanitized and that the pressures are set correctly.

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



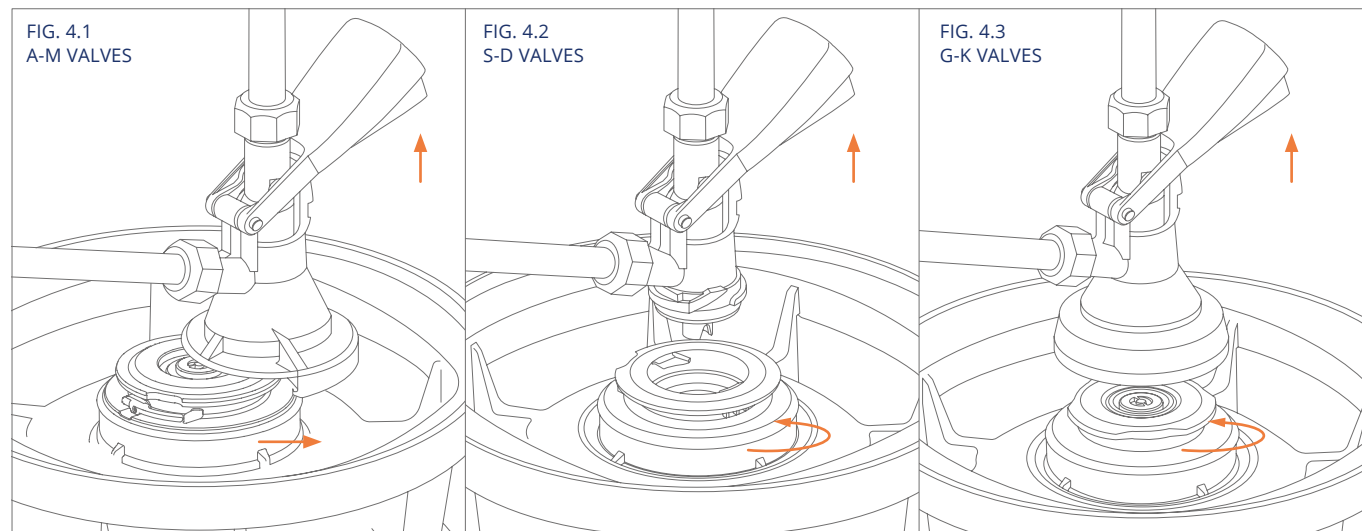
Connect the coupler to the keg valve and start tapping.

SECTION 8

Tapping instructions

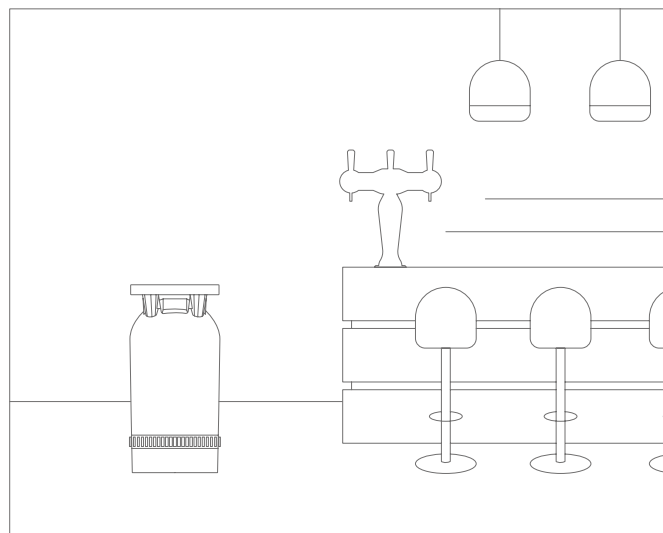


4. Uncoupling



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

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

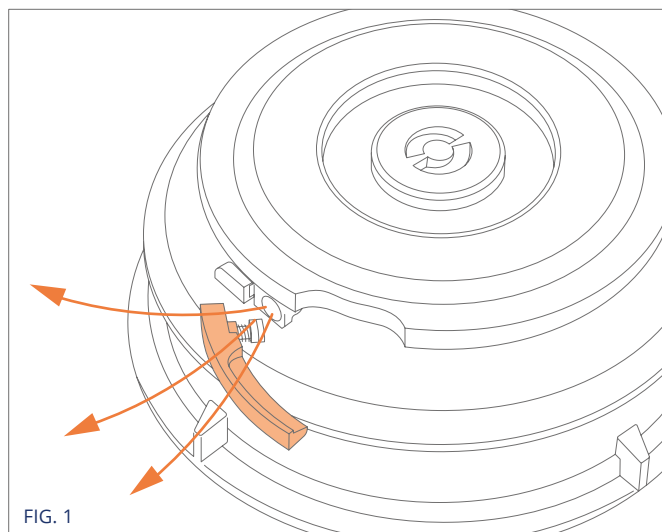


FIG. 1

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

2. Depressurization procedure without PRV

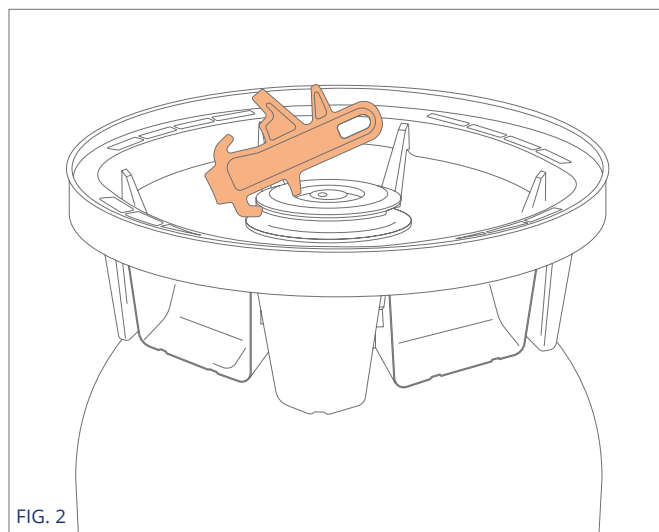


FIG. 2

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

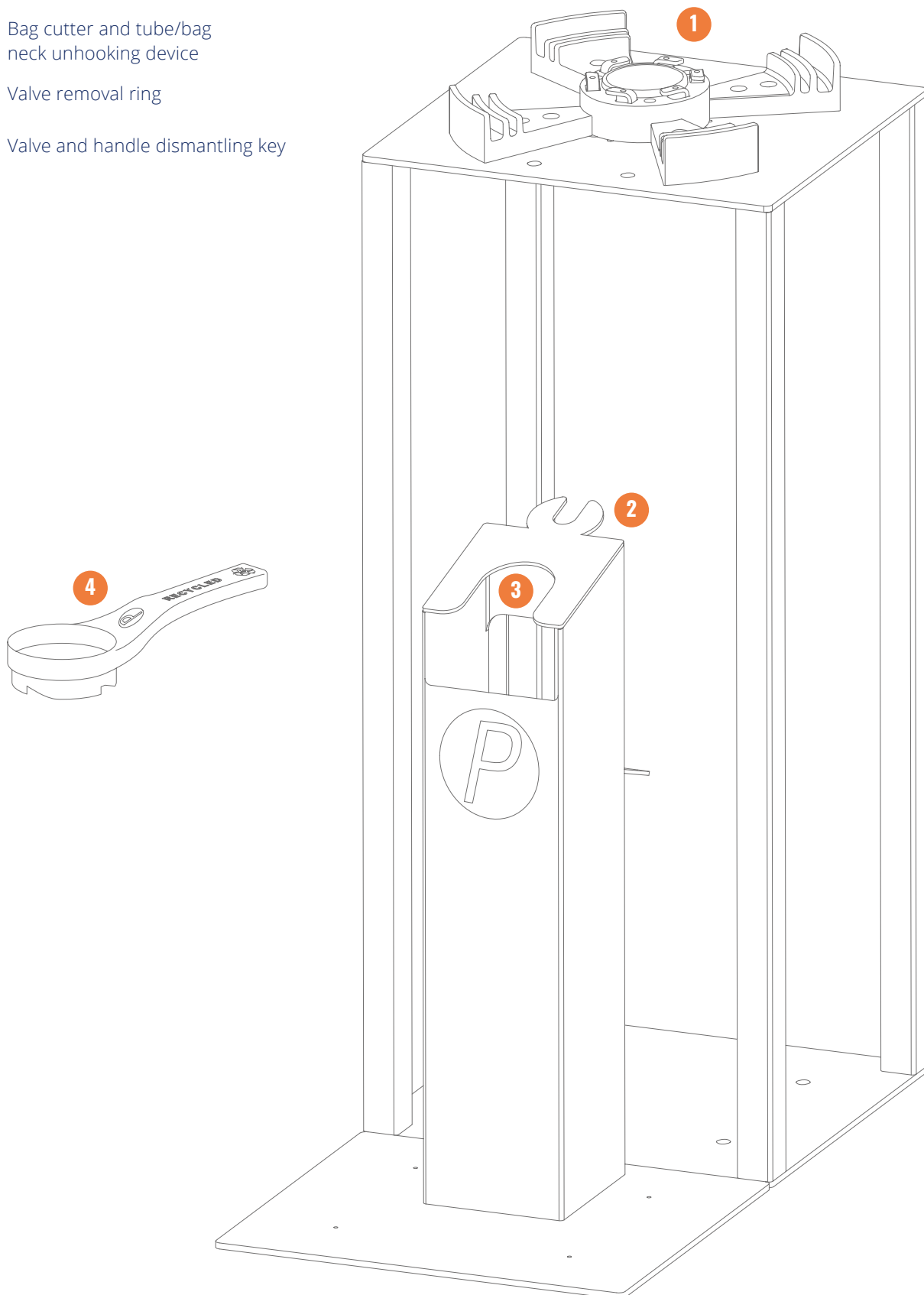
Dismantling instructions

SECTION 10.1

Dismantling instructions WITH EQUIPMENT



- 1 Base locking system
- 2 Bag cutter and tube/bag neck unhooking device
- 3 Valve removal ring
- 4 Valve and handle dismantling key



SECTION 10.1

Dismantling instructions WITH EQUIPMENT

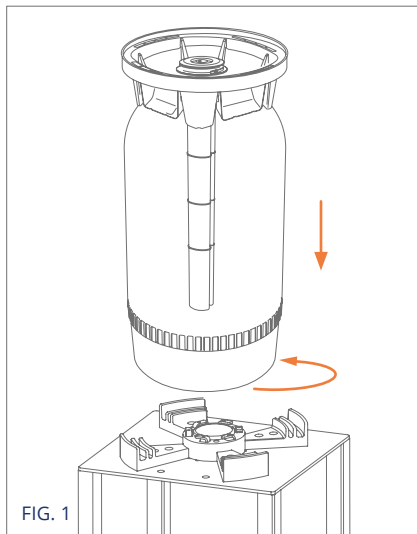


The keg must be depressurized immediately after use and in all cases before being dismantled.

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").

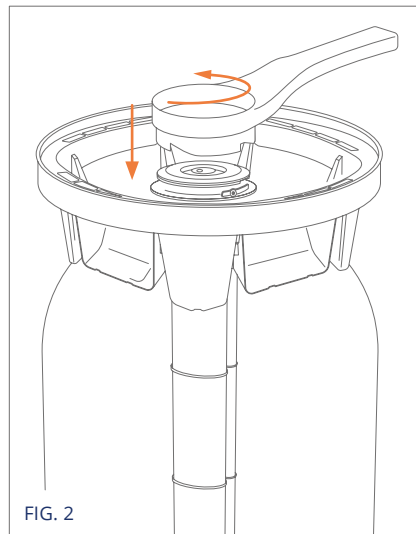
DISMANTLING PROCEDURE

1. Keg locking



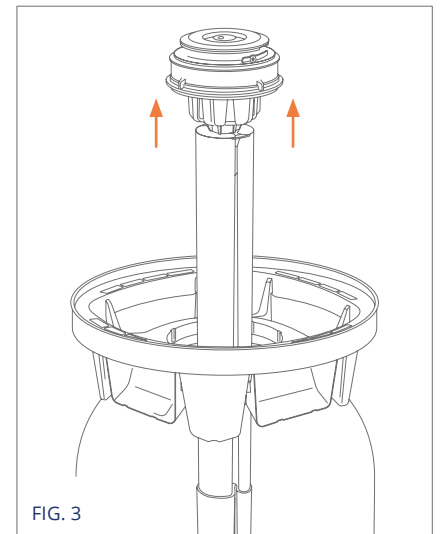
Hook the depressurized keg to the device surface.

2. Valve removal



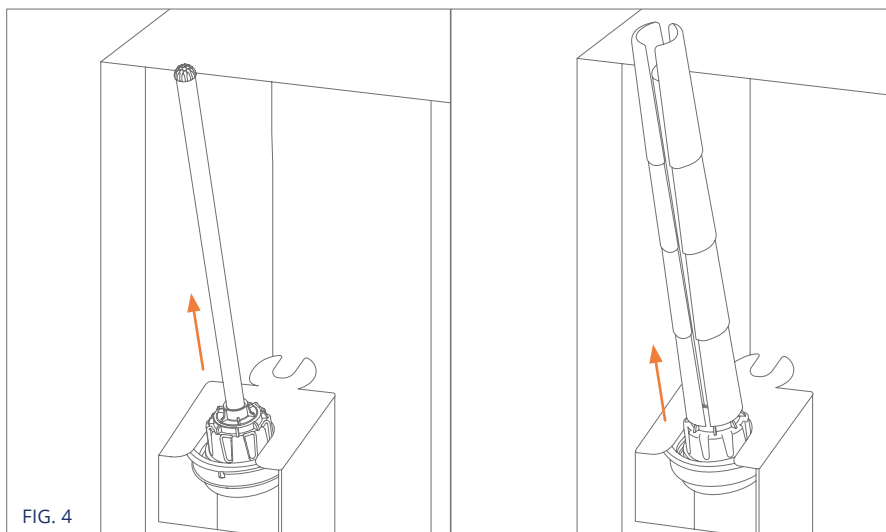
Unscrew the valve using the dedicated dismantling key.

3. Valve extraction with dip tube or bag kit



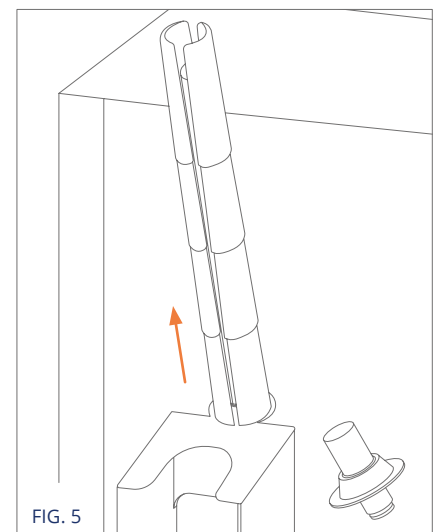
Pull out of the bottle the valve and the dip tube, or the valve and the bag kit.

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.

5. Dip tube from bag separation



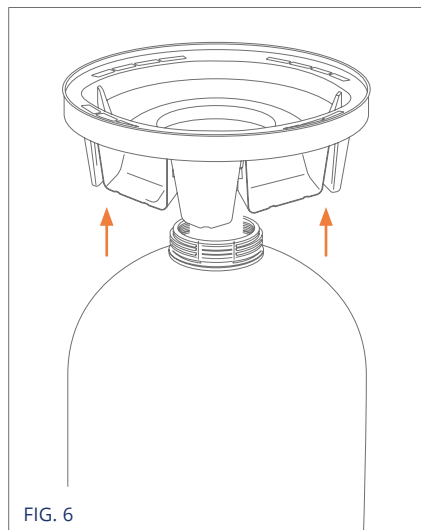
Hook the bag kit to the ring and separate the dip tube and bag from the bag neck.

SECTION 10.1

Dismantling instructions WITH EQUIPMENT

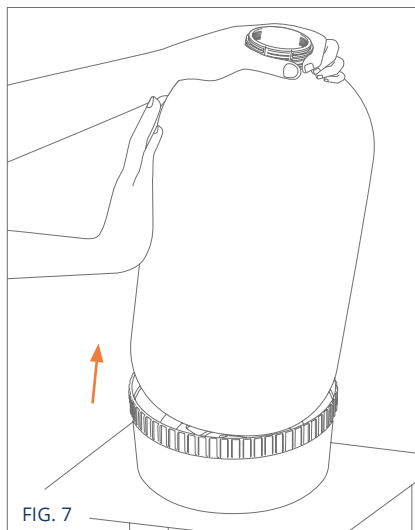


6. Handle removal



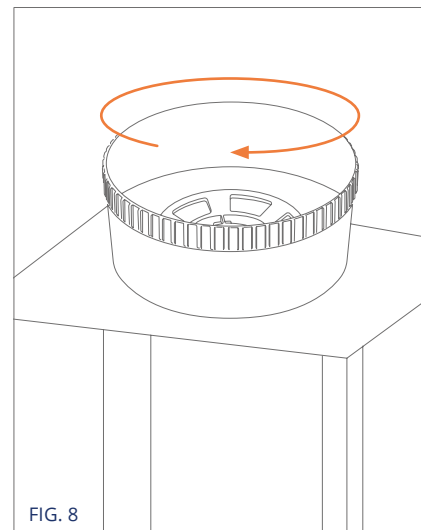
Remove the keg handle.

7. Base removal



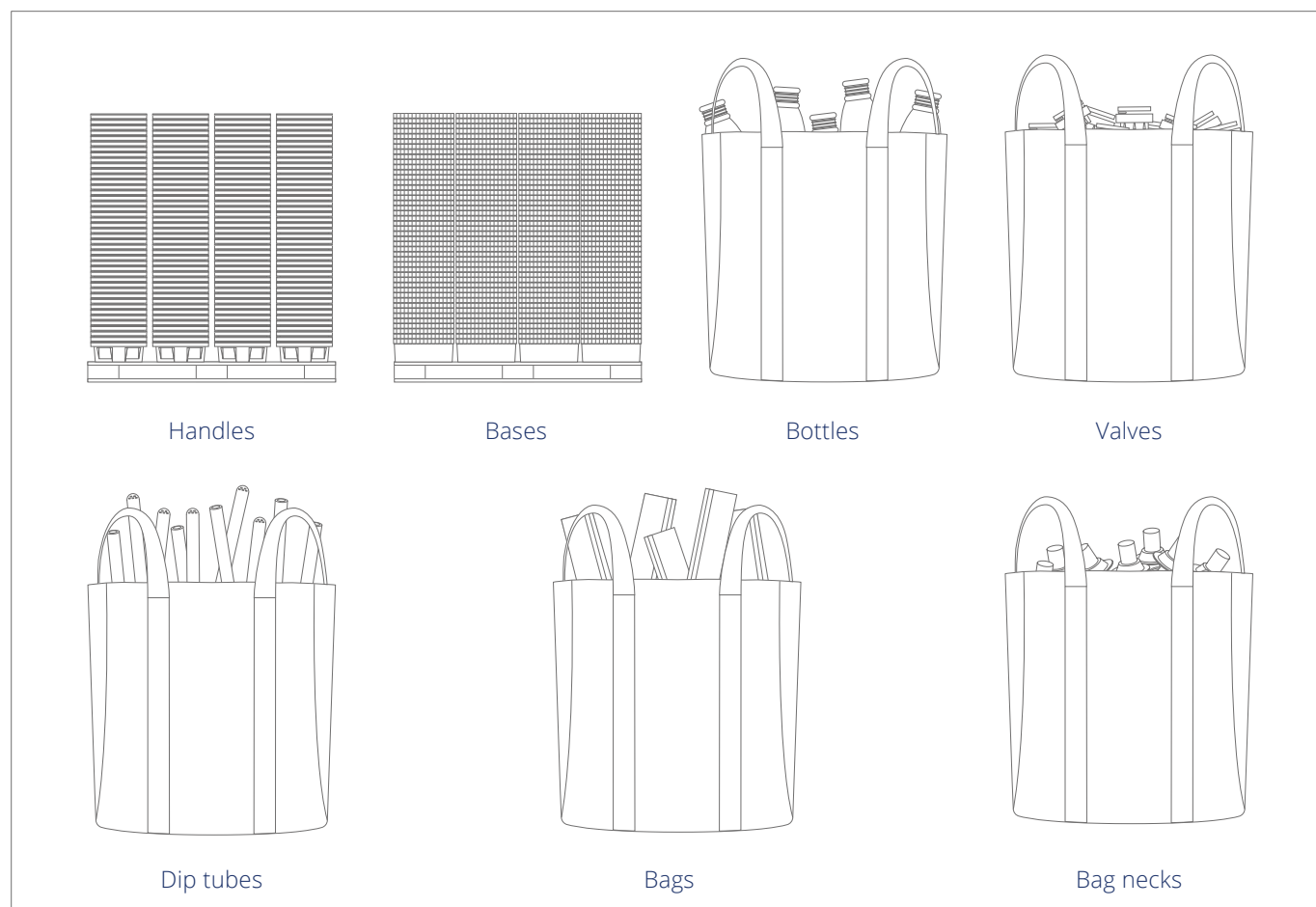
Push the bottle until the base comes off.

8. Base unlocking



Unhook the base of the keg from the device surface.

10. Sorted keg components



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

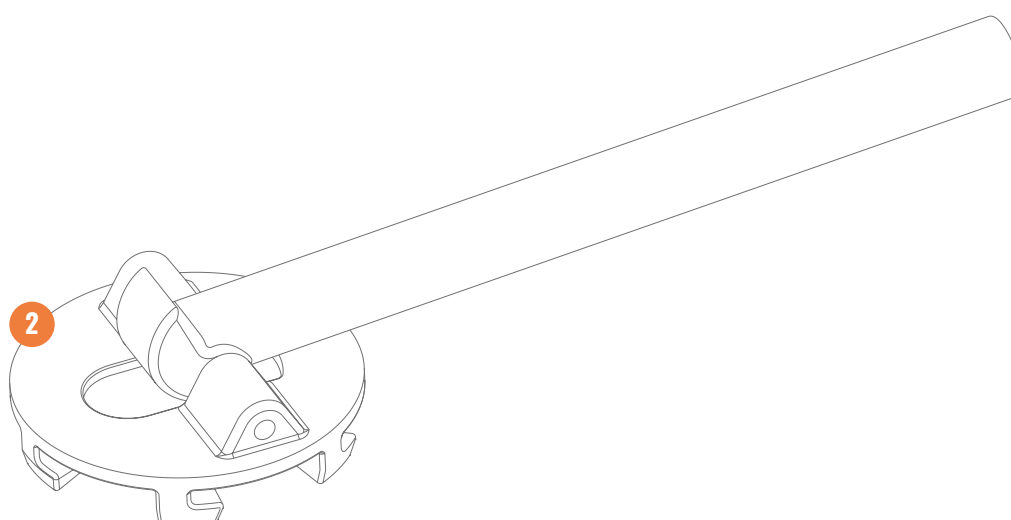
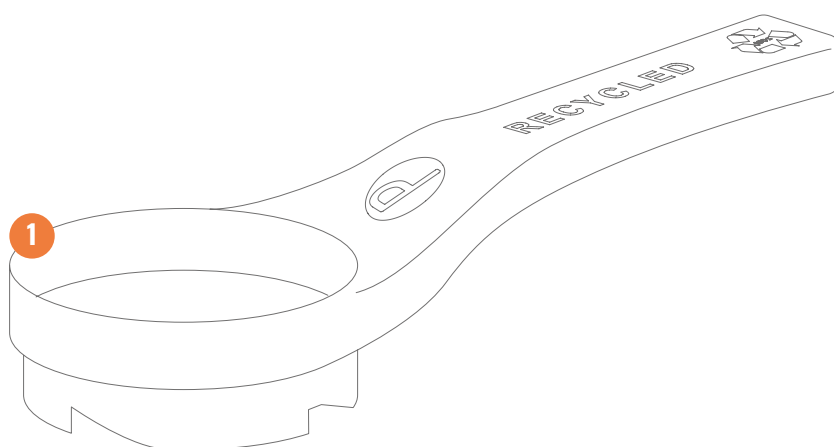
SECTION 10.2

Dismantling instructions WITH KEY



1 Valve and handle dismantling key

2 Base dismantling key



SECTION 10.2

Dismantling instructions WITH KEY

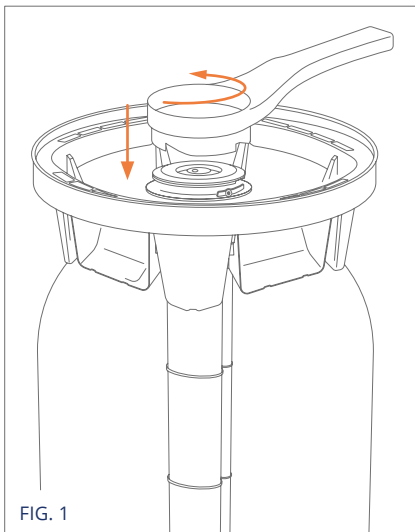


The keg must be depressurized immediately after use and in all cases before being dismantled.

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").

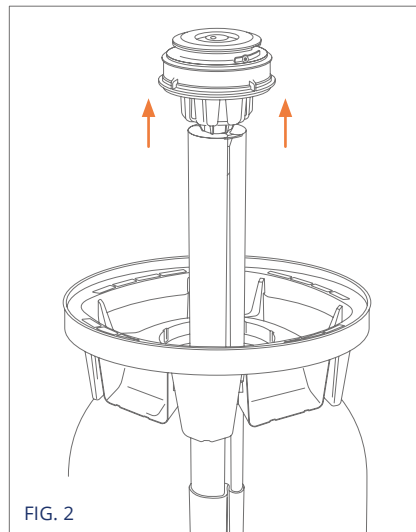
DISMANTLING PROCEDURE

1. Valve removal



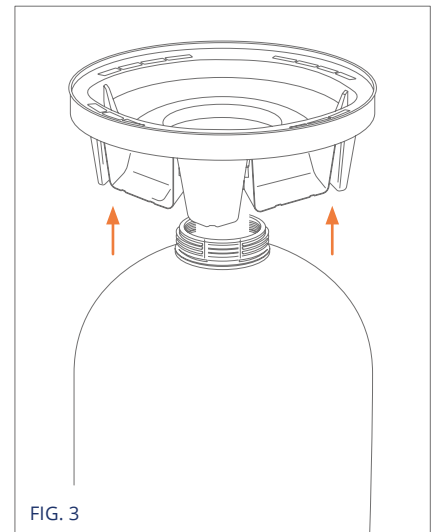
Unscrew the valve using the dedicated dismantling key.

2. Valve extraction with dip tube or bag kit



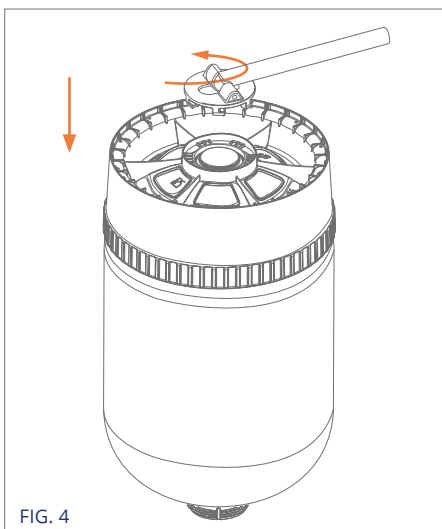
Pull out of the bottle the valve and the dip tube, or the valve and the bag kit.

3. Handle removal

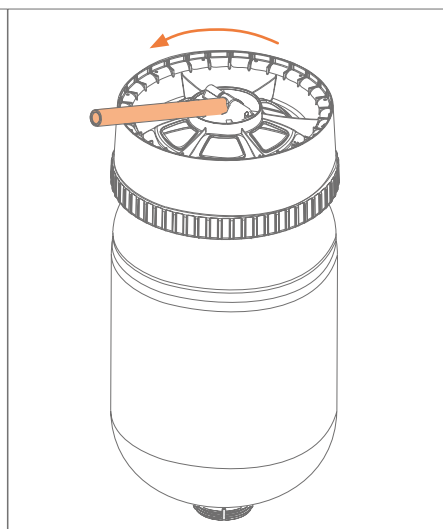


Remove the keg handle.

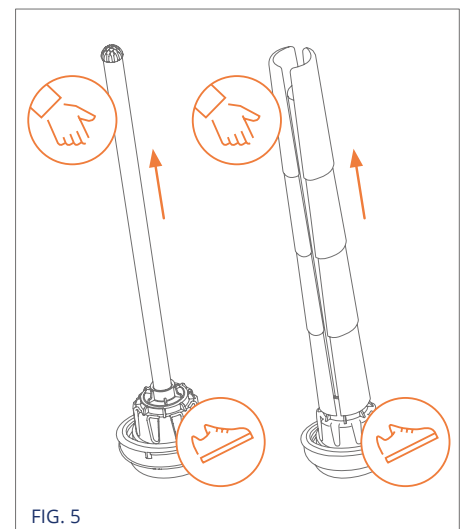
4. Base – keg detachment



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



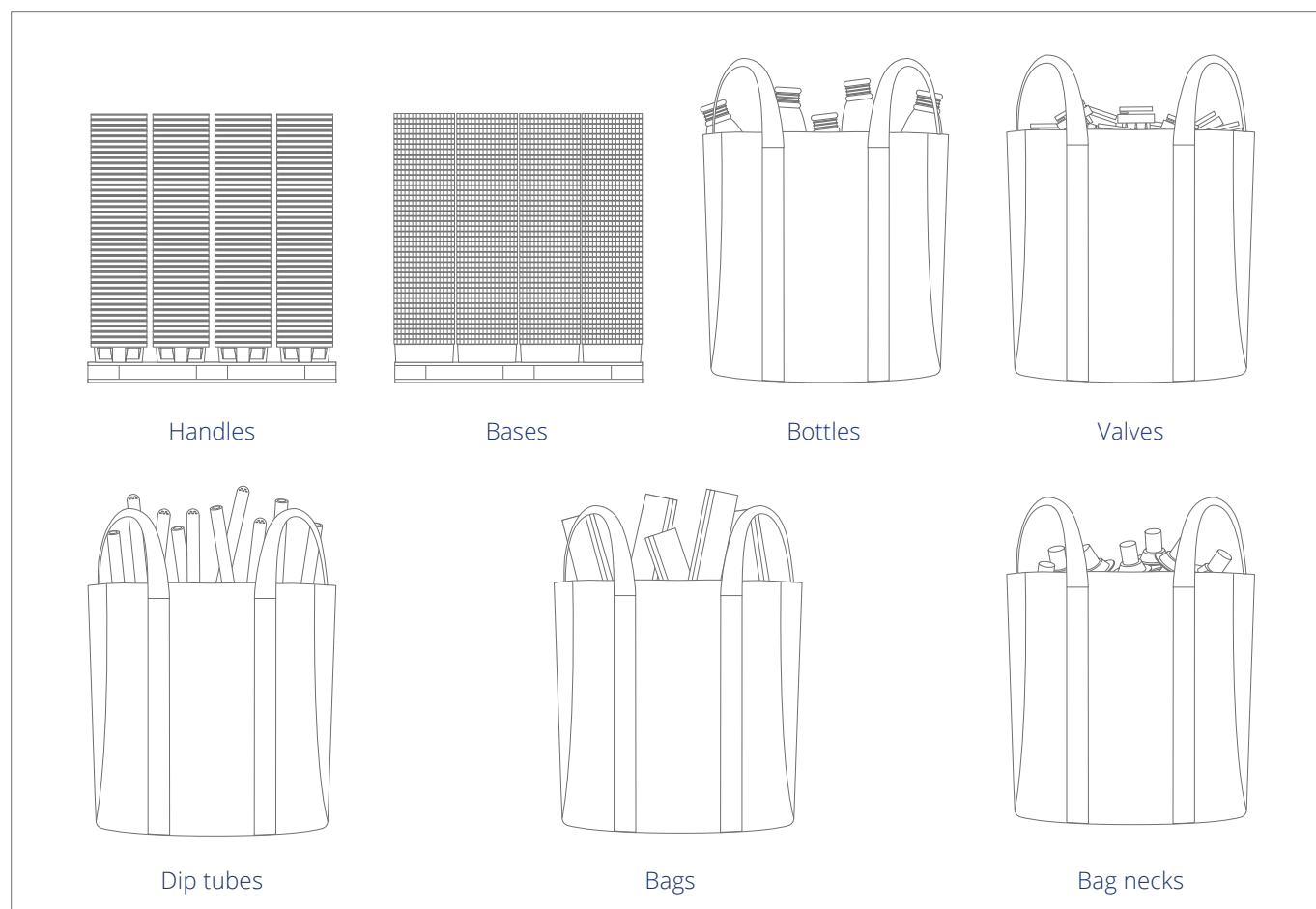
Remove the valve from the tube or bag kit by holding the valve and pulling the tube or bag kit towards you.

SECTION 10.2

Dismantling instructions WITH KEY



6. Sorted keg components



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



SECTION 11

Materials and symbols sheet

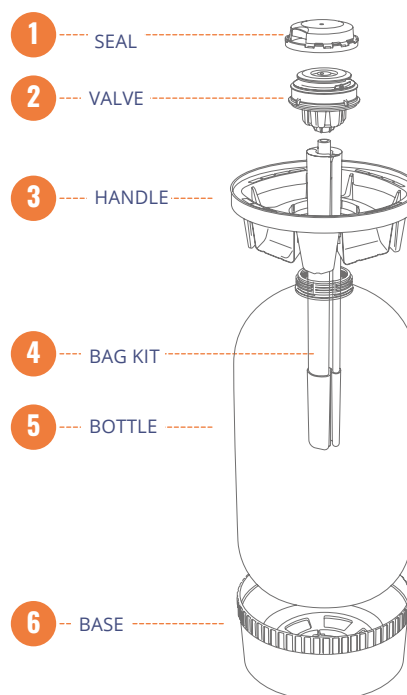


Materials and symbols sheet

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..

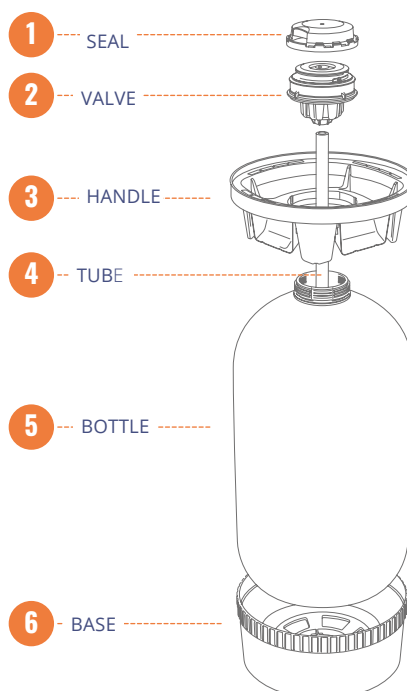
1. POLYKEG PRO WITH BAG

	Component	Material	Classification 129/97/CE	Symbol
1	Seal	Polypropylene	PP 5	
2	Valve	Other plastic	Altro 7	
3	Handle	Polypropylene	PP 5	
4	Bag kit	Aluminum	C/LDPE	
	Bag + adapter	Polyethylene Nylon	90	
	Tube + stopper	Polypropylene	PP 5	
5	Bottle	Polyethylene terephthalate	PET 1	
6	Base	Polypropylene	PP 5	



2. POLYKEG PRO WITHOUT BAG

	Component	Material	Classification 129/97/CE	Symbol
1	Seal	Polypropylene	PP 5	
2	Valve	Other plastic	Altro 7	
3	Handle	Polypropylene	PP 5	
4	Tube	Polypropylene	PP 5	
5	Bottle	Polyethylene terephthalate	PET 1	
6	Base	Polypropylene	PP 5	





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PolyKeg SRL is certified

