



INSTRUCTION MANUAL POLYKEG PRO 2.0

POLYKEG PRO 2.0

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This manual contains information, instructions and warnings for proper handling and use of the PolyKeg PRO 2.0 one-way keg.



Please read carefully consult this user manual and follow the instructions.



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POLYKEG PRO 2.0 WITHOUT BAG
Filling instructions with
PolyKeg® manual kit



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WARNINGS





Polykeg PRO 2.0 is a vessel designed for the transport and distribution of drinks.

Before using the PolyKeg keg, **please read the user manual** carefully and follow the instructions. Improper use of the PolyKegs can damage it and cause dangerous situations.

Always check the integrity of the keg before use and do not compromise the legibility of the label on the keg in any way.

If damage such as dents, cuts or other damage is found, do not use the keg and contact your dealer.

Before handling the keg, **wear personal protective equipment** (goggles, gloves, etc.) and ensure that the room where you are working is ventilated.

The PolyKeg keg may not be reused, may not be disposed of in the environment and must be depressurised immediately after use and returned empty to a collection point or other authorised recycling system.

SAFETY SYMBOLS



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



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 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.



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



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.



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



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



Keep the keg away from open flames or other heat sources.

OBLIGATION SYMBOLS



Carefully consult the user manual and follow the instructions.

Improper use can damage the keg and cause dangerous situations.



Depressurise the keg immediately after use as indicated in the appropriate section of the manual. This operation must be followed before the keg is disposed of at collection points.



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



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

WARNING SYMBOLS



0÷40 ℃ 32÷104 ℉

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 dangerous situations.



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

If over-pressurized, the keg may cause dangerous situations.



DANGER N2 - CO2 GAS INSIDE

Suffocation hazard. Use the keg in a well-ventilated environment.



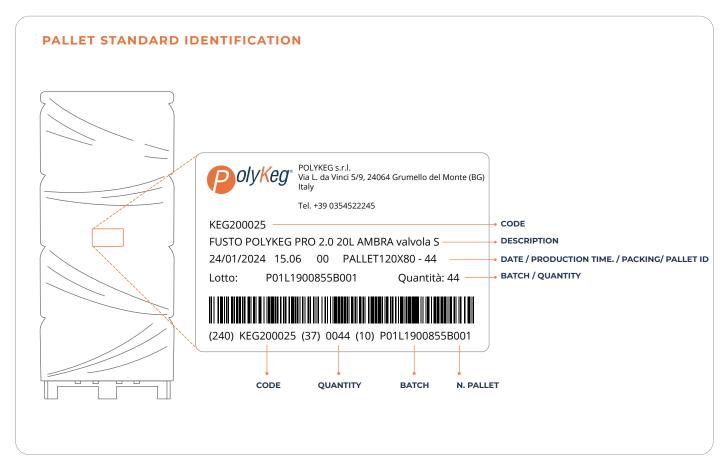
Damage to the keg can cause dangerous situations

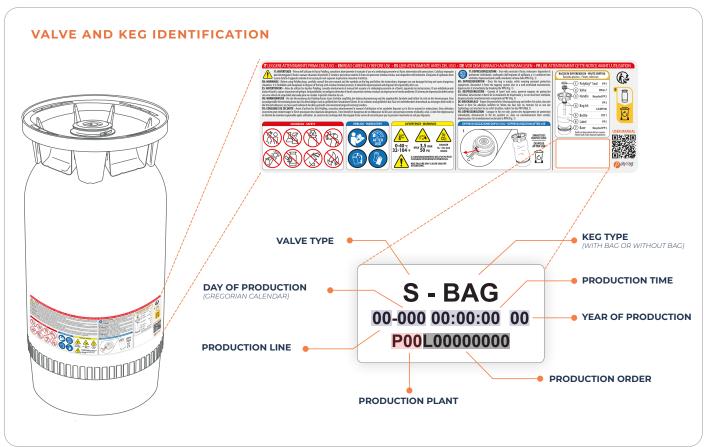


PACKING AND KEG IDENTIFICATION











VALVES AND COUPLERS





TY	PE	VALVE	COUPL	.ER	NOTES
	A				FLAT
	G				
ı	М				
					EUROPEAN SANKEY
I					AMERICAN SANKEY
ı					KK



POLYKEG PRO 2.0 LOGISTICS DATA SHEETS

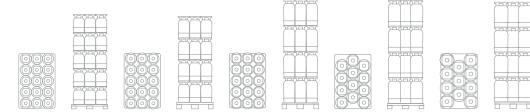






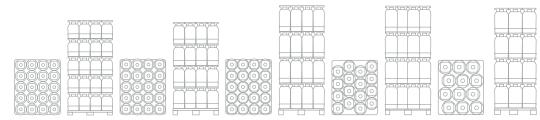
EMPTY KEGS PALLETIZATION

PALLET 80X120 CM | 31.50"X47.24"



Palletization		000		000		000					
		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		1	15		15		15		12		11
Kegs per pallet		7	75	(50		60	4	48	2	4 4
Height		2077 mr	m 81,77"	2044 m	m 51,91"	2243 mi	m 88.30"	2243 mi	m 88.30"	2243 mr	m 88.30"
QUANTITY	pallet	ke	egs	k	egs	k	egs	k	egs	ke	egs
CTR 20 ft Standard	11	8	25	6	560	4	95*	3	96*	30	63*
CTR 40 ft High Cube	24	18	800	14	440	74	440	11	52	10)56
CTR 45 ft High Cube	32	24	400	19	920	19	920	15	36	14	804
Truck 13,6 mt	32	24	400	19	920	19	920	15	36	14	804

PALLET 100X120 CM | 39.37"X47.24"



20L 676 oz.

24L 811 oz.

Palletization

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"	2243 mm 88.30"	2243 mm 88.30"	2243 mm 88.30"
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

16L 541 oz.

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.

12L 406 oz.

30L 1014 oz.

^{*}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



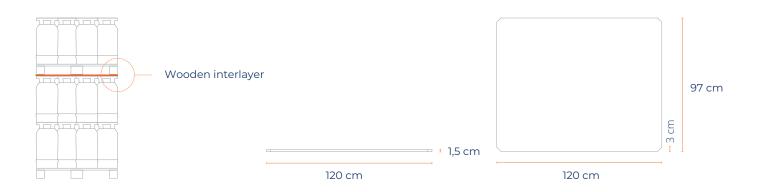




FILLED KEGS PALLETIZATION

PALLET 100X120 CM | 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





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.



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

O R



Maximum time

5 sec.

Steam



Maximum pressure on the valve

0,8 BAR



Maximum temperature



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.



FILLING INSTRUCTIONS WITH POLYKEG® MANUAL KIT

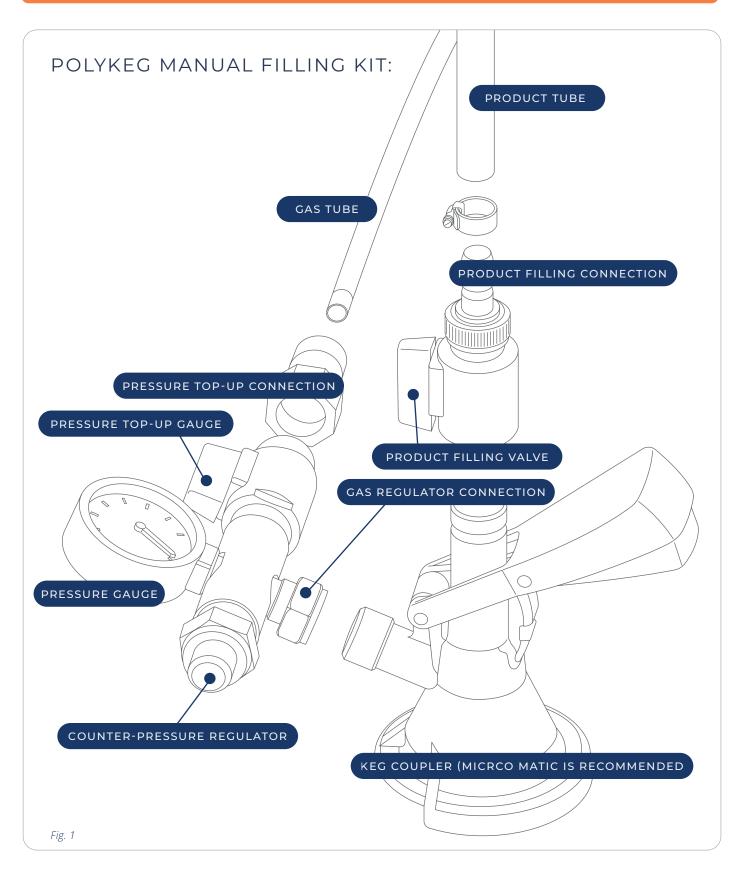
POLYKEG PRO 2.0 WITH BAG







Before proceeding, please also carefully consult the warnings in 'section 1' of the PolyKeg PRO 2.0 user manual and the keg technical sheet available in the 'Download' section of the PolyKeg website.



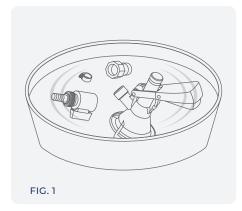




Before proceeding, please also carefully consult the warnings in 'section 1' of the PolyKeg PRO 2.0 user manual and the keg technical sheet available in the 'Download' section of the PolyKeg website.

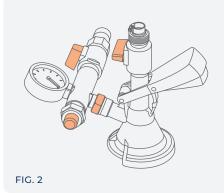
PREPARATION

1. Sanitizing



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

2. Assembly



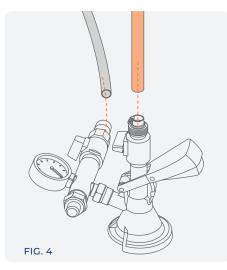
Reassemble the kit properly and close all valves.

3. Gas and product pressure check



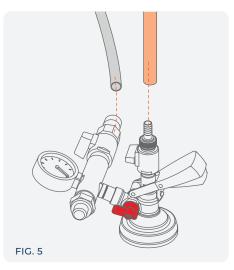
Check that the pressures of the filling system are correctly set and below the maximum value indicated. (3.5 bar/50 psi).

4. Gas and product tube connection



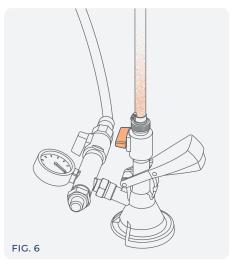
Connect the product and gas tubes to the filling kit.

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

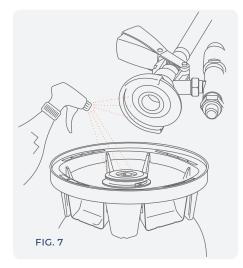


Work with the product valve to remove any residual gas from the product tube. Close the product valve.



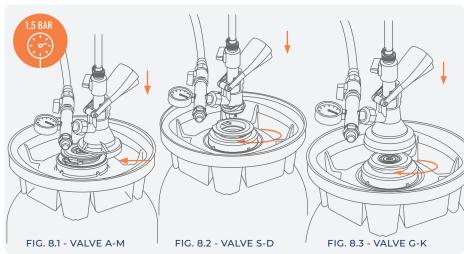
FILLING

7. Sanitizing



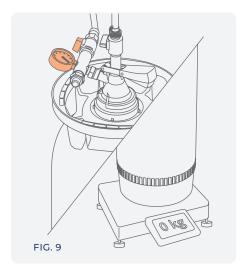
Before filling, sanitize the parts in contact with the product as indicated in the "Sanitizing instructions" section.

8. Connection and Counter-pressure check



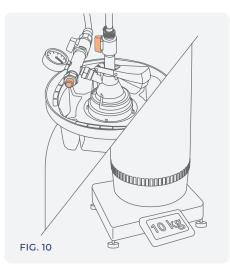
Make sure the filling head is properly connected to the valve, lower the lever and check the internal pressure of the keg.

9. Counter-pressure regulation



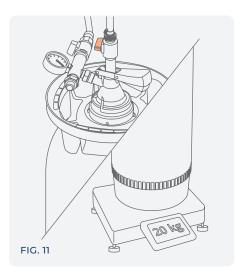
Work with the gas valve until the desired counter pressure is reached (approx. 0.5 bar lower than the product filling pressure).

10. Filling



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

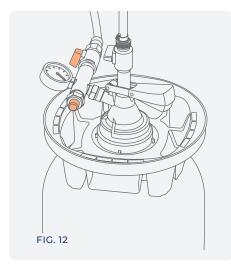
11. End of filling



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.

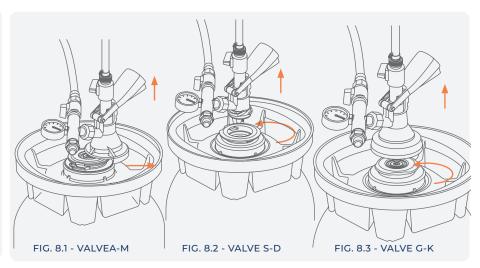


12. Pressure balance



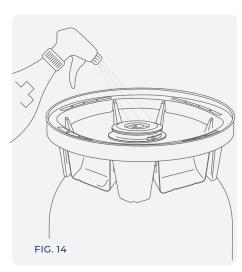
Close the regulator and work on the gas valve to increase the counter-pressure to a value slightly higher than the product filling value.

13. Uncoupling



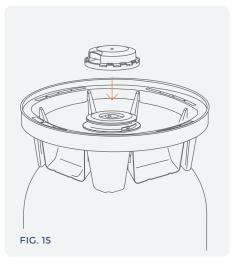
Quickly lift the lever and disconnect the coupler from the keg.

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.



FILLING INSTRUCTIONS WITH POLYKEG® MANUAL KIT

POLYKEG PRO 2.0 WITHOUT BAG



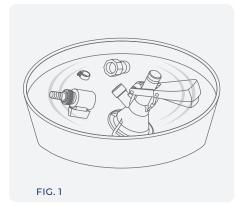




Before proceeding, please also carefully consult the warnings in 'section 1' of the PolyKeg PRO 2.0 user manual and the keg technical sheet available in the 'Download' section of the PolyKeg website.

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



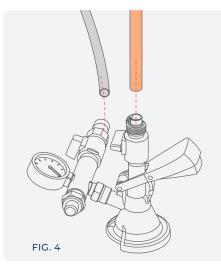
Reassemble the kit properly and close all valves.

3. Gas and product pressure check



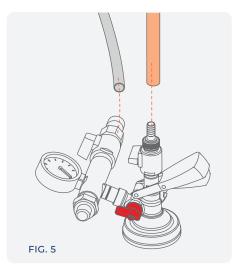
Check that both product and gas pressure in the tank does not exceed the maximum nominal working pressure (3.5 bar/ 50 psi).

4. Gas and product tubes connection



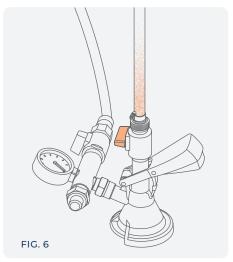
Connect the product and gas tubes to the filling kit.

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

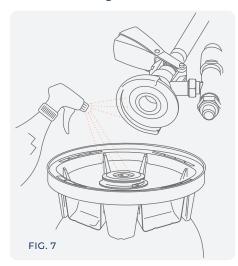


Work with the product valve to remove any residual gas from the product tube. Close the product valve.



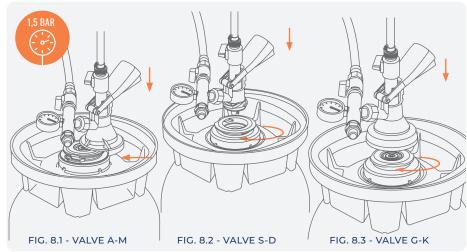
FILLING

7. Sanitizing



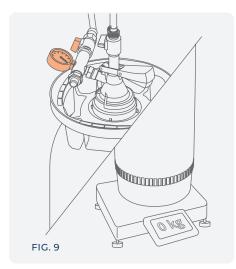
Before filling, sanitize the parts in contact with the product according to the "Sanitizing Instructions" section.

8. Filling head connection and counter-pressure check



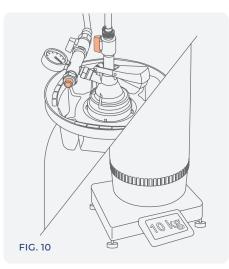
Connect properly the filling head to the valve, lower the lever and check the internal keg pressure.

9. Counter-pressure regulation



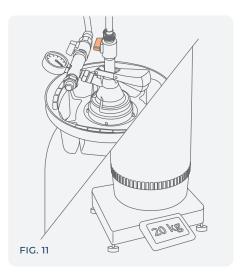
Work with the gas valve until the desidered counter-pressure is reached (approx. 0.5 bar lower than the product filling pressure).

10. Filling



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

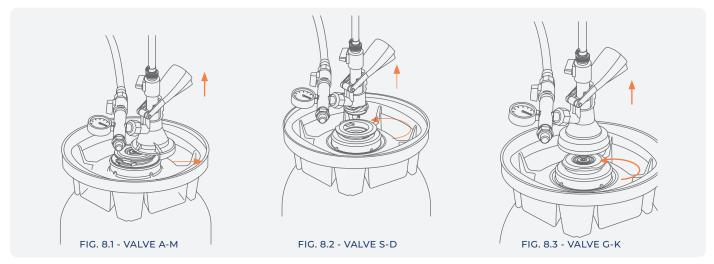
11. End of filling



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

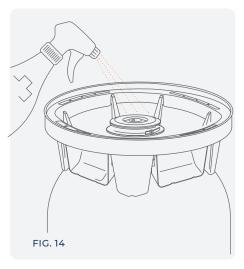


12. Uncoupling



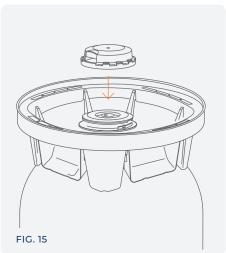
Quickly lift the lever and disconnect the coupler from the keg.

13. Valve sanitizing



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



Apply the keg seal.



TAPPING INSTRUCTIONS





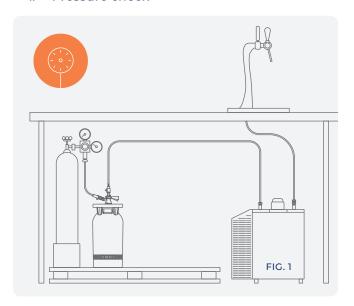
Tapping must be done exclusively by appropriate systems using gases such as: CO₂, nitrogen, air.

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.

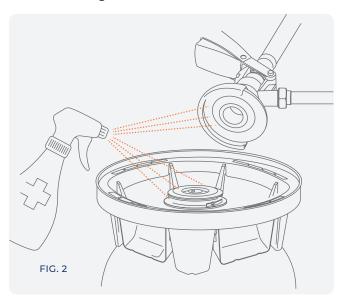
TAPPING PROCEDURE

1. Pressure check



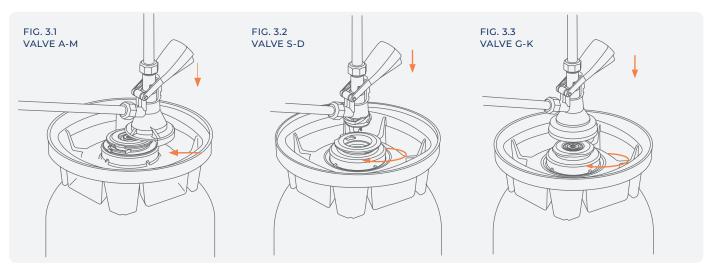
Before connecting the keg, please check that the tapping system is in order, sanitized and that the pressures are set correctly

2. Sanitizing



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

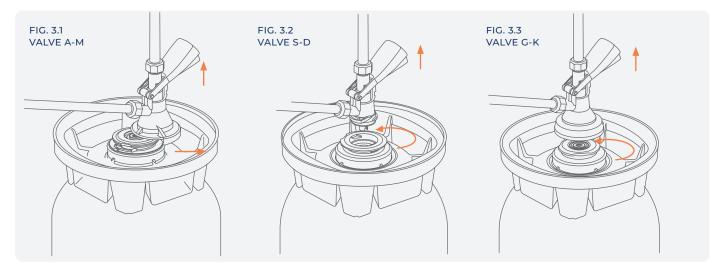
3. Connection



Connect the coupler to the keg valve and start tapping.

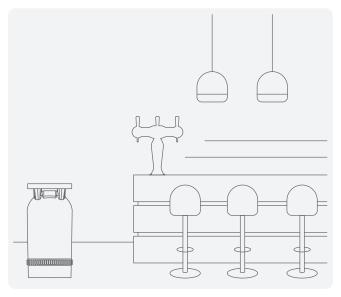


4. Uncloupling



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 temporarly 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.



DEPRESSURIZATION INSTRUCTIONS



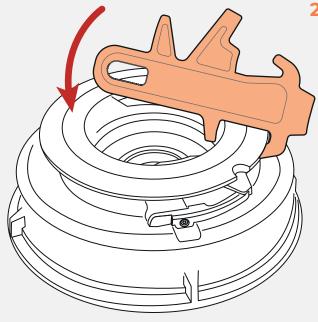




Depressurization procedure with OPRV

At the end of use disconnect the keg from the system and, before disposing of it at a collection point, depressurise it by breaking the OPRV.

Pull out the red lever and cause the break of it like shown in figure.



Depressurization procedure with key

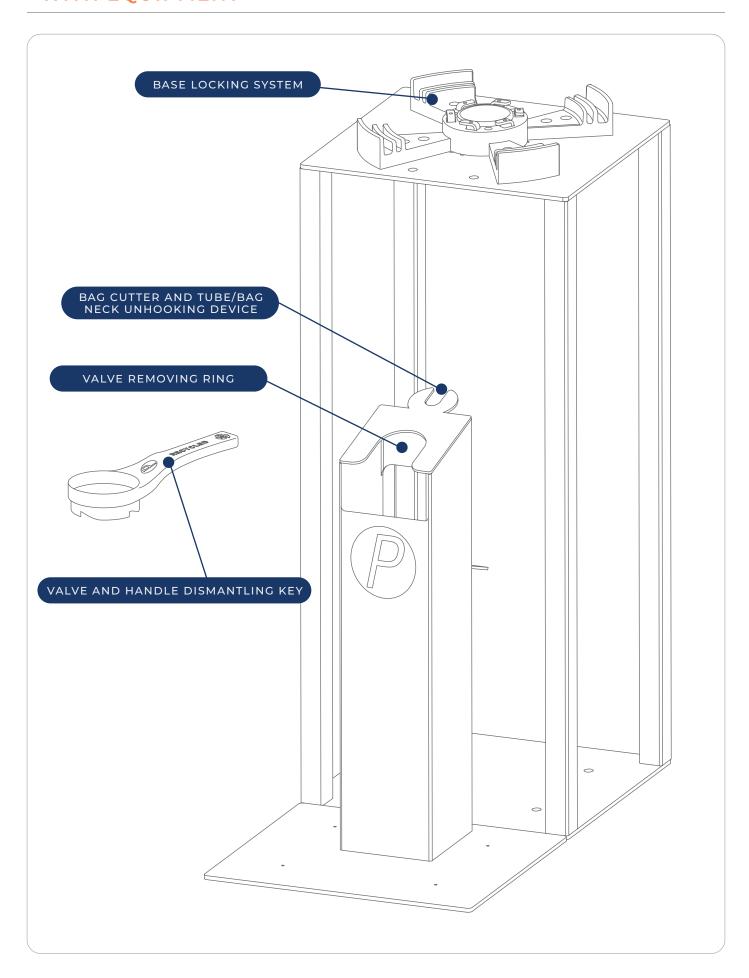
If preferred or in the absence of OPRV on the valve, the keg can be depressurised using the depressurisation key. The key is suitable for all PolyKeg valve types: A, D, G, K, M, S.



DISMANTLING INSTRUCTIONS







DISMANTLING INSTRUCITONS WITH EQUIPMENT



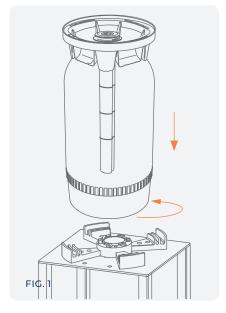


Before proceeding, please also carefully consult the warnings in 'section 1' of the PolyKeg PRO 2.0 user manual and the keg technical sheet available in the 'Download' section of the PolyKeg website.

The Polykeg PRO 2.0 keg can be easily disassembled as shown below in order to facilitate the recycling of materials (see section "Materials and symbols")

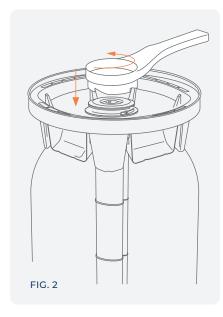
DISMANTLING PROCEDURE

Keg locking



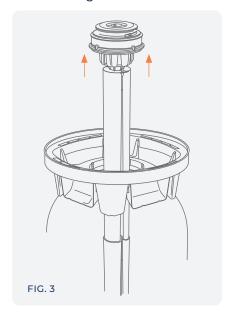
Hook the depressurized keg to the device surface.

2. Valve removal



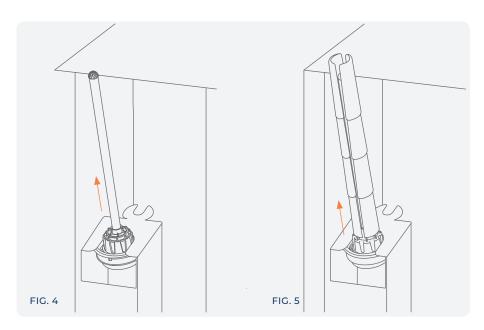
Unscrew the valve using the dedicated dismantling key.

3. Valve extraction with dip tube or bag kit



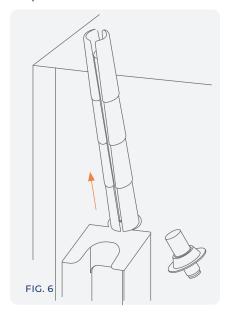
Pull out of the bottle the valve and the dip tube, or the valve and the bag kit.

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.

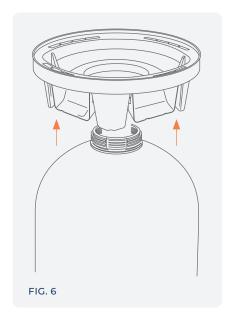
3. Dip tube from bag separation



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



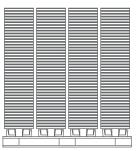
Push the bottle until the base comes out.

8. Base unlocking

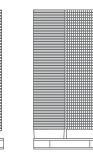


Unhook the base of the keg from the device surface.

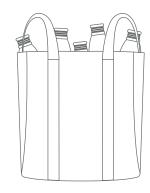
9. Sorted keg components



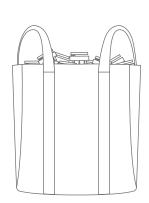
HANDLES



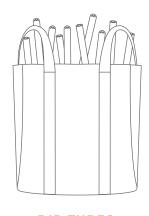
BASES



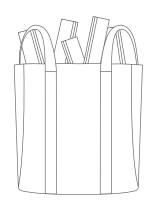
BOTTLES



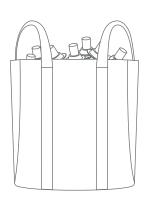
VALVES



DIP TUBES



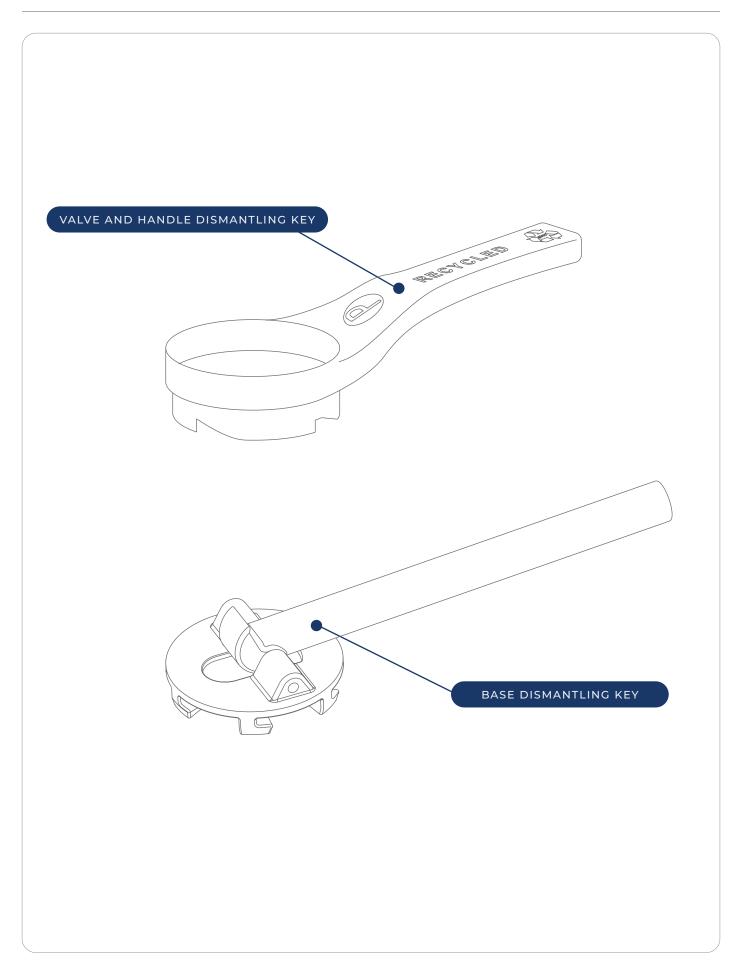
BAGS



BAG NECKS

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





DISMANTLING INSTRUCTIONS WITH KEY



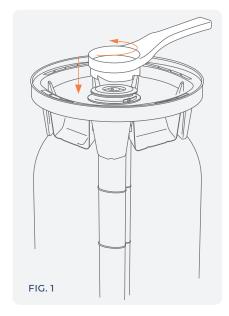


Before proceeding, please also carefully consult the warnings in 'section 1' of the PolyKeg PRO 2.0 user manual and the keg technical sheet available in the 'Download' section of the PolyKeg website.

The Polykeg PRO 2.0 keg can be easily disassembled as shown below in order to facilitate the recycling of materials (see section "Materials and symbols")

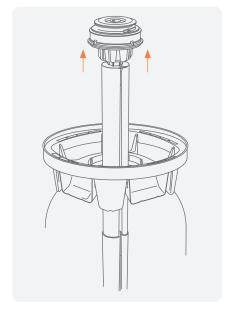
DISMANTLING PROCEDURE

1. Valve removal



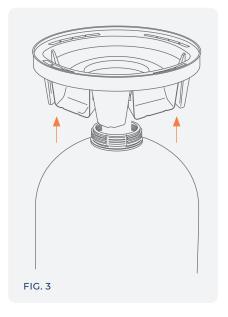
Unscrew the valve using the dedicated dismantling key.

2. Valve extraction with dip tube or bag kit



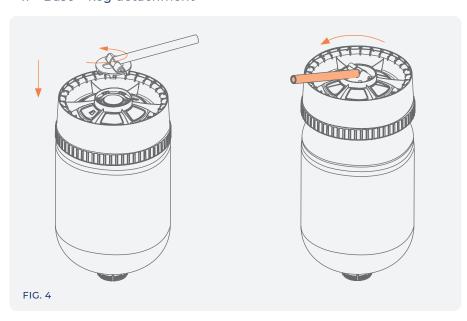
Pull out of the bottle the valve and the dip tube, or the valve and the bag kit.

3. Handle removal



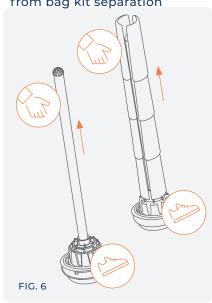
Remove the keg handle.

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.





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



MATERIALS AND SYMBOLS SHEET POLYKEG PRO 2.0

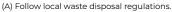


MATERIALS AND SYMBOLS SHEET POLYKEG PRO



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 (A)					
1PolyKeg Seal	(B) Polypropylene	PP 5	្ន	Plastic					
2 Valve	Other plastic	Other 7	A RT	Plastic					
3 Handle	Recycled Polypropylene (R-PP)	PP 5	్ట	Plastic					
4 Bag Kit: Bag + adapter	Alluminium Polyethylene Nylon	C/LDPE 90	C/LDPE 7	Plastic					
Tube + stopper	Polypropylene	PP 5	\$77	i iddic					
5 Bottle	Polyethylene terephthalate	PET 1	₽ET P!	Plastic					
6 Label	Polypropylene	PP 5	్ట	Plastic					
7 Base	Recycled Polypropylene (R-PP)	PP 5	្ន	Plastic					



⁽B) Optional accessory.

2.	2. POLYKEG PRO WITHOUT BAG								
Component		Material	Classification 129/97/CE	Symbol	Waste sorting (A)				
1PolyKeg Seal (B)		Polypropylene	PP 5	్ట్లు	Plastic				
2	Valve	Other plastic	Other 7		Plastic				
3	Handle	Recycled Polypropylene (R-PP)	PP 5	స్ట్ర	Plastic				
4	Tube	Polypropylene	PP 5	\$ 77	Plastic				
5	Bottle	Polyethylene terephthalate	PET 1	2 RT	Plastic				
6	Label	Polypropylene	PP 5	్ట	Plastic				
7	Base	Recycled Polypropylene (R-PP)	PP 5	్ట	Plastic				

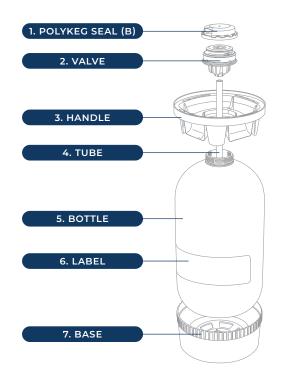
⁽A) Follow local waste disposal regulations.

⁽B) Optional accessory.

3. PACKAGING							
Component	Material	Classification 129/97/CE	Symbol	Waste sorting (A)			
Stretch film Cover pallet Bags (B)	Polyethylene	PE-LD 4	A PE-LD	Plastic			
Pallet	Wood	FOR 50	50) FOR	Wood			
Boxes (B)	Corrugated fiberboard	PAP 20	20 PAP	Paper			

⁽A) Follow local waste regulations.





⁽B) Optional accessory.



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Polykeg SRL is certified:







