

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 1Warnings

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, should not be released into the environment and should be depressurised **immediately** after use and disposed of empty 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.



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. 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.





Packing and keg identification

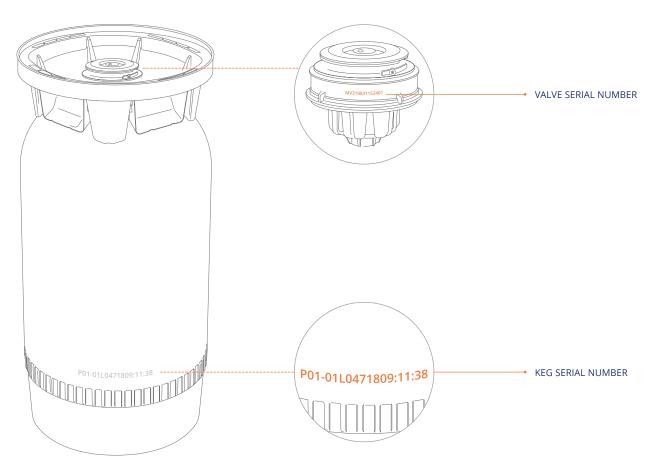
Packing and keg identification



PALLET STANDARD IDENTIFICATION



VALVE AND KEG IDENTIFICATION







SECTION 3Valves and couplers

Valves and couplers



ТҮРЕ	VALVE	COUPLER	NOTES
A			Flat
G			
M			
S			European Sankey
D			American Sankey
K			KK





PolyKeg® PRO logistics data sheets

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		Ę	5		4		4		4		4
Kegs per layer		1	5	1	5	,	15		12		11
Kegs per pallet		7	5	6	50	(50		48	4	14
Height		2077 mm	n 81,77"	2044 mr	n 51,91"	2396 mr	n 94,33"	2384 mr	m 93,85"	2384 mr	m 93,85"
QUANTITY	pallet	ke	gs	ke	egs	k	egs	k	egs	k	egs
CTR 20 ft Standard	11	82	25	6	60	49	95*	3:	96*	30	53*
CTR 40 ft High Cube	24	18	00	14	140	14	140	1	152	10	056
CTR 45 ft High Cube	32	24	00	19	920	19	920	1.	536	14	408
Truck 13,6 mt	32	24	00	19	920	19	920	1.	536	14	408

PALLET 100X120 CM | 39.37"X47.24"



WARNINGS

Possibility of stacking pallets and the maximum number of layers must take into account the mechanical properties of the keg as specified on the technical data sheet, local regulations, means of transport, handling methods of handling, as well as the conditions of 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.

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*

Possibility of stacking pallets and the maximum number of layers must take into account the mechanical properties of the keg as specified on the technical data sheet, local regulations, means of transport, handling methods of handling, as well as the conditions of storage areas.

To overlap pallets, the load must be evenly distributed using either a rigid interlayer or an inverted pallet. It is recommended to wrap the kegs on pallets with white extensible film for better protection.

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*

Possibility of stacking pallets and the maximum number of layers must take into account the mechanical properties of the keg as specified on the technical data sheet, local regulations, means of transport, handling methods of handling, as well as the conditions of storage areas.

To overlap pallets, the load must be evenly distributed using either a rigid interlayer or an inverted pallet. It is recommended to wrap the kegs on pallets with white extensible film for better protection.

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	

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

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

To overlap pallets, the load must be evenly distributed using either a rigid interlayer or an inverted pallet. 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/kegs must consider the mechanical properties of the kegs as indicated on the technical data sheets, local regulations, means of transport and handling methods, as well as the condition of the storage facilities.





SECTION 5Sanitizing instructions

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 fil-ling 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 We do not recommend the use of chemicals not mentioned in the user manual. Please pay attention to the composition of the chosen product.

SANITIZATION WITH MANUAL FILLING KIT

Peracetic acid solution in demineralised water



Max **2%**



Min time 30 SECONDS

OR

Hydroalcoholic solution in demineralised water



20% Min Max 50%



Min time 45 SECONDS

SANITIZING THE POLYKEG MANUAL FILLING KIT

Soak the disassembled components of the manual filling kit in one of the sanitizing solutions listed above. Please follow the above dilution rates and timescales.

SANITIZING OF THE COUPLER AND THE EXTERNAL PART OF THE VALVE

Clean and spray the external surface of the components with one of the sanitizing solutions listed above. Please follow the above dilution rates and timescales.

SANITIZING WITH AUTOMATIC AND SEMI-AUTOMATIC MACHINES

Hot water



Maximum pressure on the valve

0.8 BAR



Maximum temperature 85°C



Max time

5 SECONDS

NR

Steam



Maximum pressure on the valve

0.8 BAR



Maximum temperature 100°C



AUTOMATIC/SEMI-AUTOMATIC MACHINE SANITIZING

Before starting the filling sanitize the automatic/semiautomatic filling machine.

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 values.





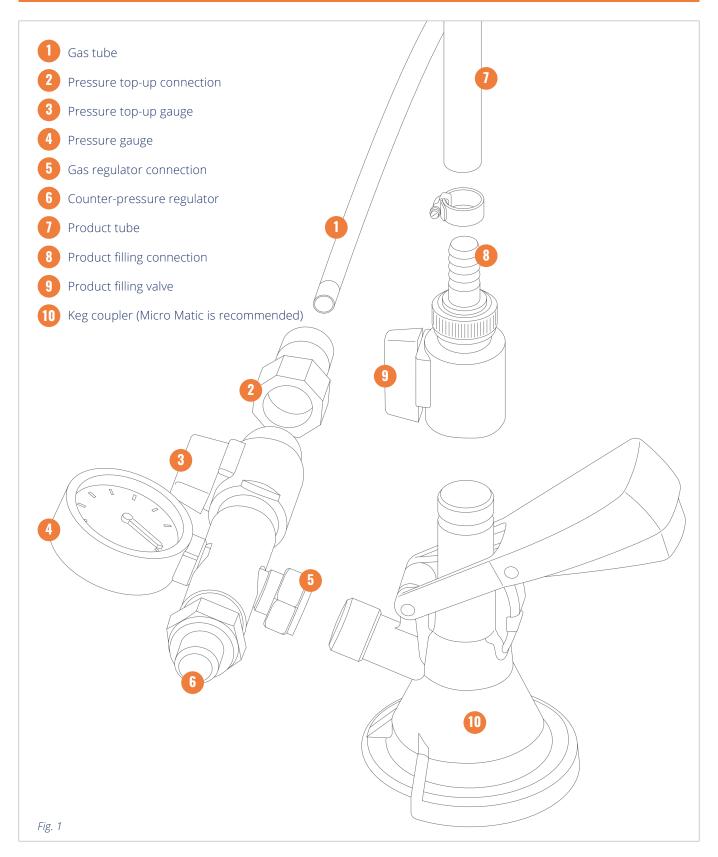
SECTION 6 POLYKEG PRO WITH BAGFilling instructions with PolyKeg® manual kit

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.



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



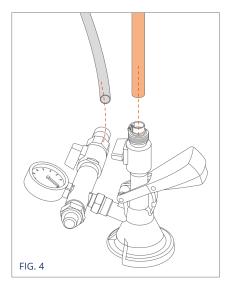
Reassemble the kit properly and close all valves.

3. Gas and product pressure check



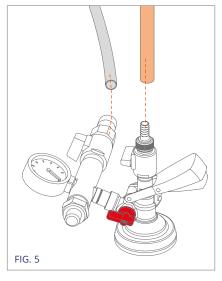
Check that the pressures of the filling system are correctly set and below the maximum value indicated. (3.5 bar).

4. Gas and product tube connection



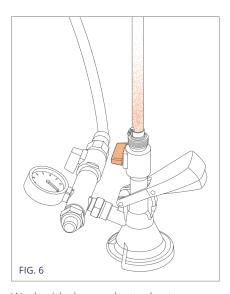
Connect the product and gas tubes to the filling kit.

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.

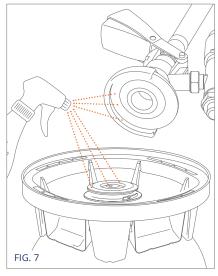
POLYKEG PRO WITH BAG

Filling instructions with PolyKeg® manual kit



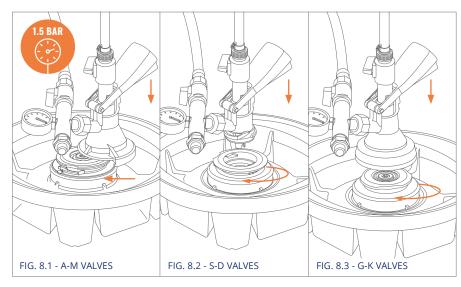
FILLING

7. Sanitizing



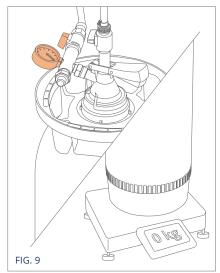
Before filling, sanitize the parts in contact with the product as indicated in the "Sanitizing instructions" section.

8. Connection and Counter-Pressure Check



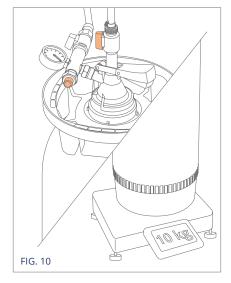
Make sure the filling head is properly connected to the valve, lower the lever and check the internal pressure of the keg.

9. Counter-pressure regulation



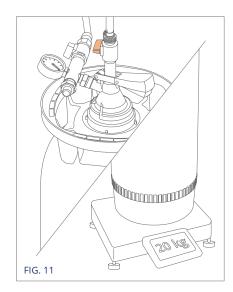
Work with the gas valve until the desired counter pressure is reached (approx. 0.5 bar lower than the product filling pressure).

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



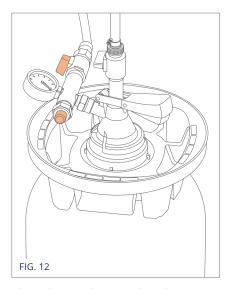
Once the nominal filling volume is reached, close the product valve. Do not exceed the nominal filling volume to prevent the product from leaking out of the bag.

POLYKEG PRO WITH BAG

Filling instructions with PolyKeg® manual kit

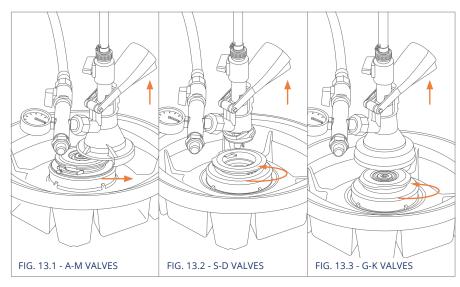


12. Pressure balance



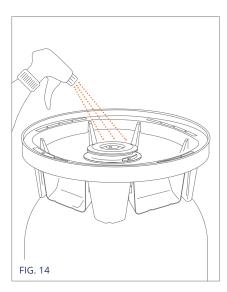
Close the regulator and work on the gas valve to increase the counter-pressure to a value slightly higher than the product filling value.

13. Uncoupling



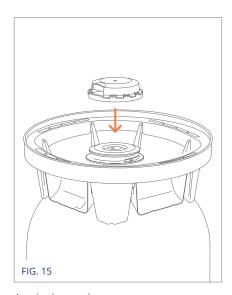
Quickly lift the lever and disconnect the coupler from the keg.

14. Valve sanitizing



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

15. Seal application



Apply the seal.





SECTION 7 POLYKEG PRO WITHOUT BAGFilling instructions with PolyKeg® manual kit

POLYKEG PRO WITHOUT BAG

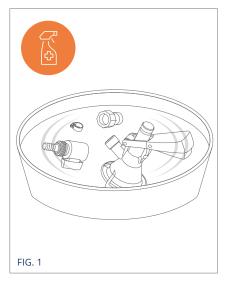
Filling instructions with PolyKeg® manual kit



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

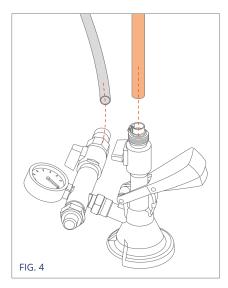
PREPARATION

1. Sanitizing



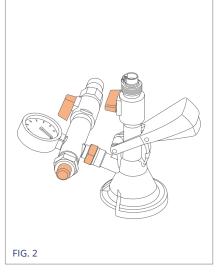
Disassemble the PolyKeg® filling kit and sanitize the components shown in the picture, following the sanitizing instructions found in "Section 5".

4. Gas and product tubes connection



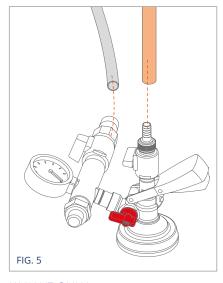
Connect the product and gas tubes to the filling kit.

2. Assembly



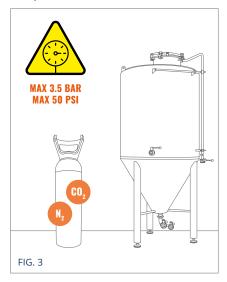
Reassemble the kit properly and close all valves.

5. Gas and product tubes connection with K valve



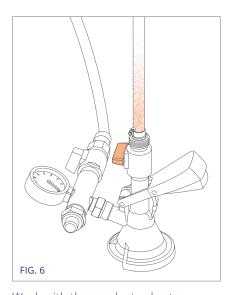
K VALVE ONLY Connect the product and gas tubes to the filling kit. Open the red valve.

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).

6. Product tube bleeding



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

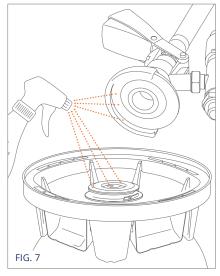
POLYKEG PRO WITHOUT BAG

Filling instructions with PolyKeg® manual kit



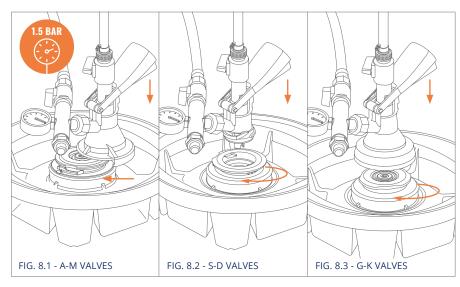
FILLING

7. Sanitizing



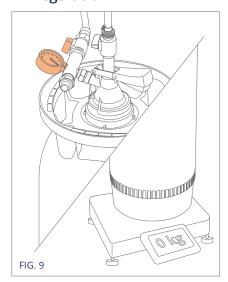
Before filling, sanitize the parts in contact with the product according to the "Sanitizing Instructions" section.

8. Filling head connection and counter-pressure check



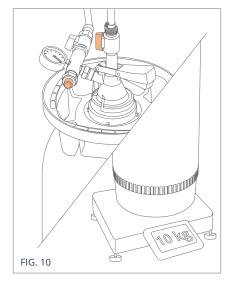
Connect properly the filling head to the valve, lower the lever and check the internal keg pressure.

9. Counter-pressure regulation



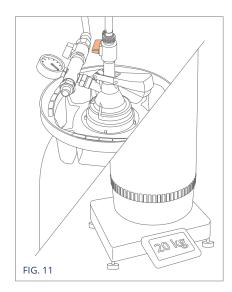
Work with the gas valve until the desidered counter-pressure is reached (approx. 0.5 bar lower than the product filling pressure).

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



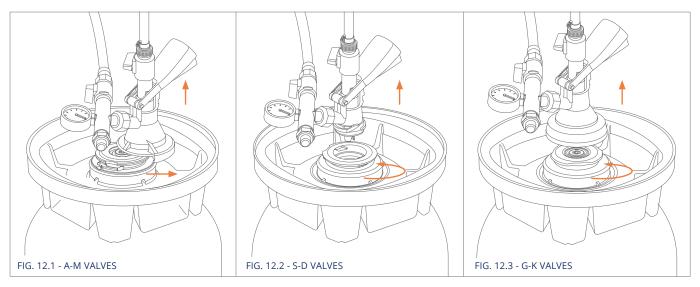
Once the nominal filling volume is reached, close the product valve. Do not exceed the nominal filling volume to prevent the product from leaking.

POLYKEG PRO WITHOUT BAG



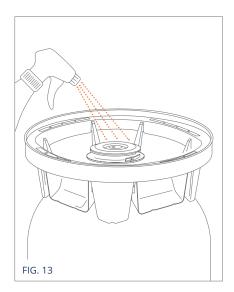
Filling instructions with PolyKeg® manual kit

12. Uncoupling



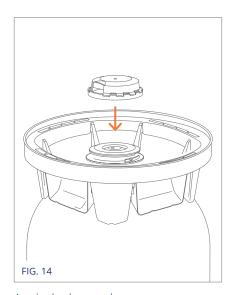
Quickly lift the lever and disconnect the coupler from the keg.

13. Valve sanitizing



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

14. Seal Application



Apply the keg seal.





SECTION 8 Tapping instructions

Tapping instructions



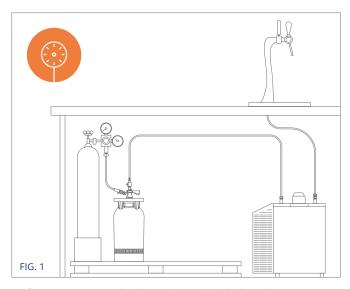
When handling the keg, please wear personal protective equipment (goggles, gloves, etc.) and make sure the room where you are working is ventilated, as speci ied in the "Warnings" section.

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.

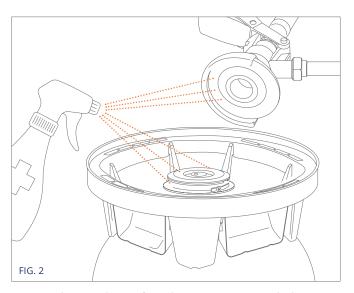
TAPPING PROCEDURE

1. Pressure check



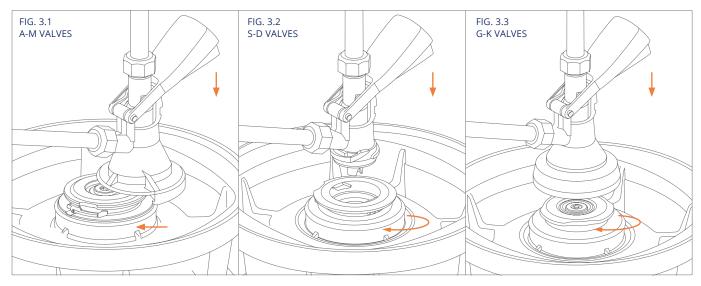
Before connecting the keg, please check that the tapping system is in order, sanitized and that the pressures are set correctly.

2. Sanitizing



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

3. Connection

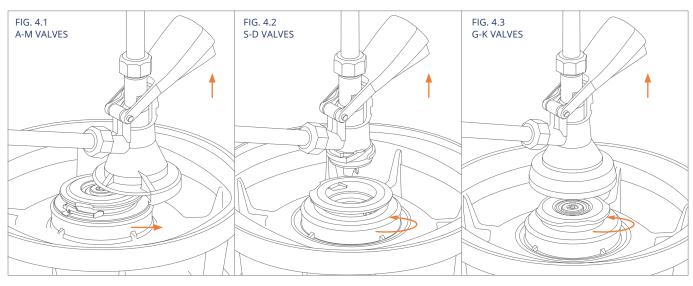


Connect the coupler to the keg valve and start tapping.

Tapping instructions

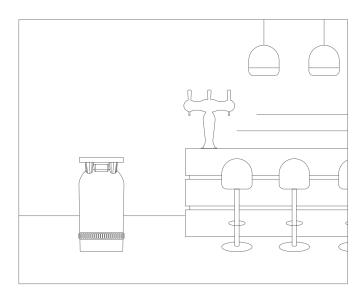


4. Uncoupling



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"

To start tapping again, repeat the procedure from step 1.





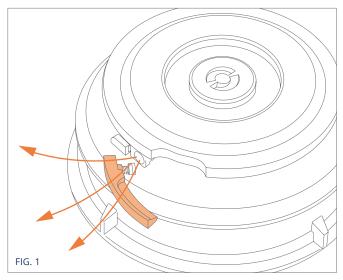
SECTION 9Depressurization instructions

Depressurization instructions



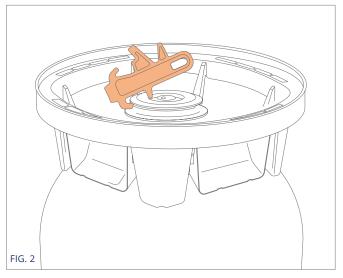
When handling the keg, please wear personal protective equipment (goggles, gloves,etc.) and make sure the room where you are working is ventilated, as mentioned in the "Warnings" section.

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.

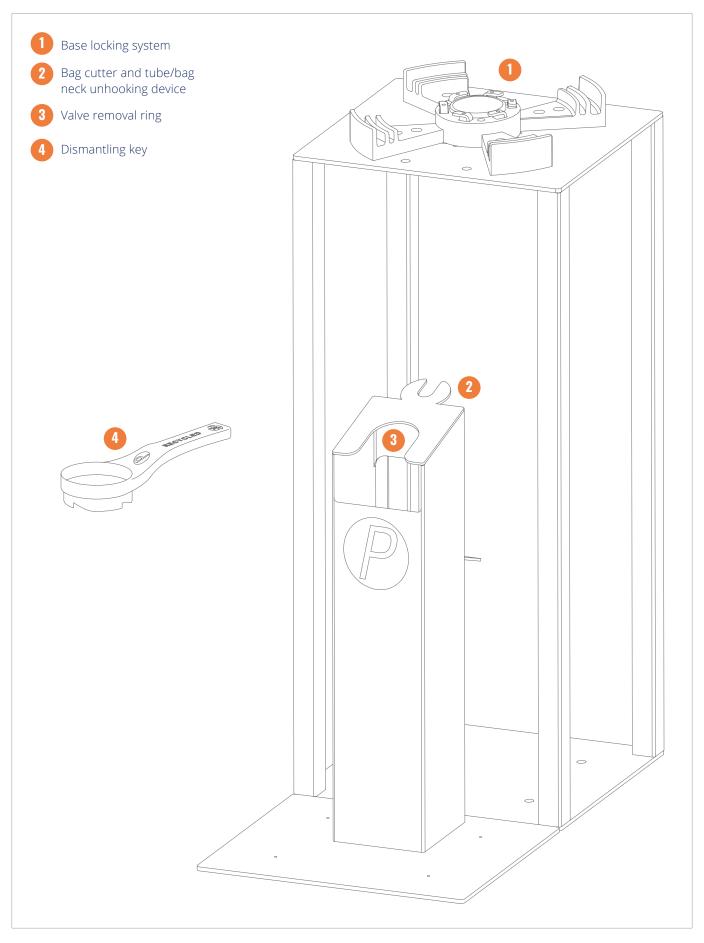




SECTION 10Dismantling instructions

Dismantling instructions





Dismantling instructions

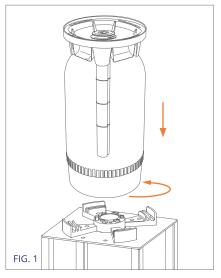


The keg must be depressurized immediately after use and in all cases before being dismantled.

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").

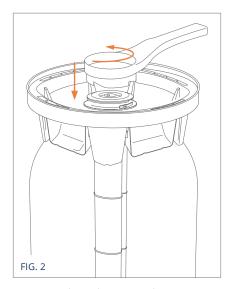
DISMANTLING PROCEDURE

1. Keg locking



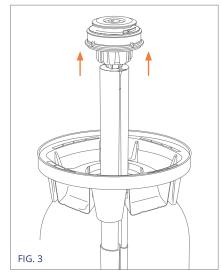
Hook the depressurized keg to the device surface.

2. Valve removal



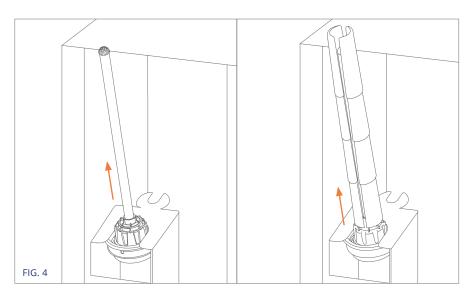
Unscrew the valve using the dedicated dismantling key.

3. Valve extraction with dip tube or bag kit



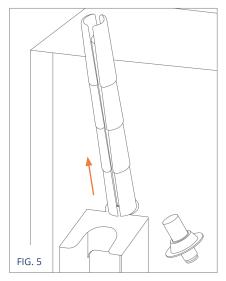
Pull out of the bottle the valve and the dip tube, or the valve and the bag

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

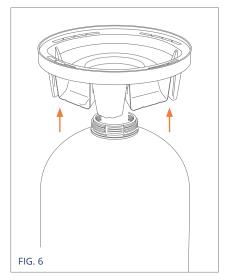


Hook the bag kit to the ring and separate the dip tube and bag from the bag neck.

Dismantling instructions

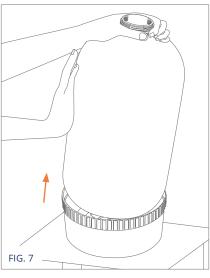


6. Handle removal



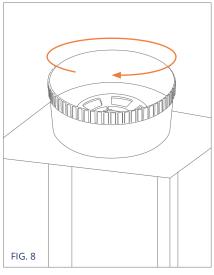
Remove the keg handle.

7. Base removal



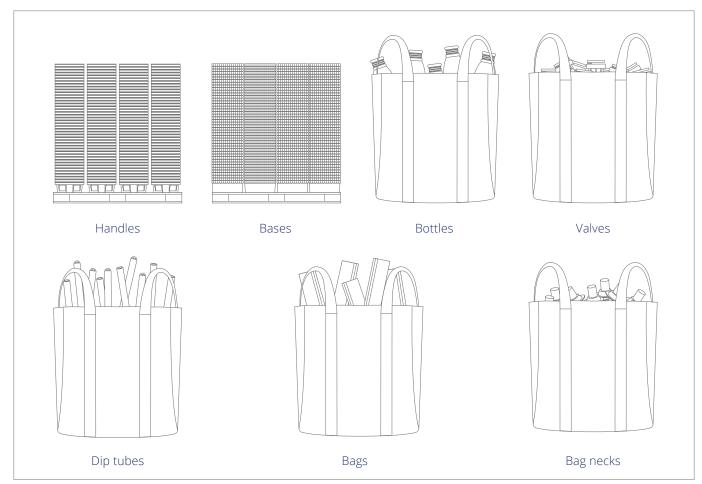
Push the bottle until the base comes

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 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.

1. POLYKEG PRO WITH BAG

	Component	Material	Symbol
0	Seal	PP	25 PP
2	Valve	Other plastic	OTHER
3	Handle	PP	25) PP
4	Bag kit	PP, LLDPE, OPA, ALU, PE	25) 24) 241) 27) PP LDPE ALU OTHER
5	Bottle	PET	23 PT
6	Base	PP	25 PP

2. POLYKEG PRO WITHOUT BAG

	Component	Material	Symbol
0	Seal	PP	25 PP
2	Valve	Other plastic	C73 OTHER
3	Handle	PP	25 PP
4	Dip tube	PP	25 PP
5	Bottle	PET/MXD6	21 7 T
6	Base	PP	25 PP









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PolyKeg SRL is certified:









