

Parts Manual

Recirculation Kits for Pneumatic & Hydraulic Units

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Ref. NR-00093-ENG



Before starting or doing maintenance on the Unit, carefully read all of the technical and safety documentation included in the Service Manual. Special attention should be paid to the information in order to know and understand the handling and conditions of use of the Unit. This information is aimed at USER SAFETY and the PREVENTION OF PROBLEMS.



WARRANTY

HI-TECH SPRAY EQUIPMENT, S. A. (hereinafter "HI-TECH") grants this Limited Guarantee to the original buyer (hereinafter the "Client") for the unit and the original accessories given with the unit (hereinafter the "Product") against any fault in the design, materials or manufacture of the Product at the time of the first purchase by the user and for a duration of two (2) years thereafter.

If during the guarantee period and under normal conditions of use, the Product should fail to work correctly due to defects of design, material or manufacture, the authorised distributor of the country where the HI-TECH Product or technical assistance service has been purchased shall repair or replace the Product in accordance with what is established in the following:

CONDITIONS

- a) The validity of this guarantee will be subject to the presentation of the original invoice issued by the HI-TECH authorised distributor for the sale of the Product along with the Product handed over for repair or replacement, which must show the date of purchase and the serial number. HI-TECH reserves the right to refuse to give the guarantee service when the indicated data fail to appear on the invoice or have been modified after the purchase of the Product.
- b) The repaired or replaced Product will continue to maintain the original guarantee for the time remaining until the end of the guarantee or for three (3) months from the repair date, if the remaining period of the original guarantee were shorter.
- c) This guarantee will not be applied to the faults in the Product caused by its faulty installation, the natural wear and tear of the components, any use other than that considered normal for this Product or which should fail to strictly comply with the instructions of use provided by HI-TECH; due to accident, carelessness, adjustments, alterations or modifications of the Product not authorised by HI-TECH or due to the use of accessories, heating devices, pumping equipment and/or dispensers that have not been approved or manufactured by HI-TECH.
- d) The guarantee applicable to the components and accessories forming part of the Product and which have not been made by HI-TECH will be limited to the guarantee offered by the original manufacturer thereof.

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All information provided on components which have not been manufactured by HI-TECH and which is based on reports received from the original manufacturer, though considered precise and reliable, is provided without any guarantee or responsibility of any explicit or implicit kind.

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The restrictions on the guarantee suppose no limitation on the legal rights of the consumer established in applicable national legislation, nor do they affect any rights derived from the bargain and sale agreement between the consumer and supplier.

All information provided in this manual has been included in the confidence that it is true, although it does not constitute any responsibility or implicit or explicit guarantee. HI-TECH reserves the right at any time and without prior warning to make all improvements and modifications necessary to this manual, in order to rectify any possible typographical errors, increase the information contained or insert the changes caused to the characteristics and performance of the unit.



SAFETY AND HANDLING

The equipment described in this manual has been designed and manufactured in compliance with the following European Directives, following as application guide the harmonized standards detailed and in conformity with the relevant UK Statutory Instruments (and their amendments):

Directive 2006/42/EC on machinery (UK Supply of Machinery (Safety) Regulations 2008)

UNE EN 12100:2012 (BS EN ISO 12100:2010)

Directive 2014/68/EU on pressure equipment (UK Pressure Equipment (Safety) Regulations 2016)

UNE EN 809:1999 +A1 (BS EN 809:1998 +A1:2009)

Directive 2014/35/EU on electrical safety (UK Electrical Equipment (Safety) Regulations 2016)

UNE EN 60204-1:2019 (BS EN 60204-1:2018)

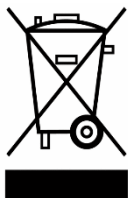
Directive 2003/10/EC on noise level (UK The Control of Noise at Work Regulations 2005)

UNE EN ISO 3740 (BS EN ISO 3740:2019)

UNE EN ISO 3746 (BS EN ISO 3746:2010)

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment with amendment 2015/863/EU (UK The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012)

Directive 2012/19/EU on waste electrical and electronic equipment (UK The Waste Electrical and Electronic Equipment Regulations 2013)



Electrical products cannot be thrown out with the rubbish. They must be taken to a dedicated collection point for an environmentally sound disposal in accordance with local regulations. You must contact your local collective or retailer for information about recycling. Before leaving WEEE at appropriate collection facilities, batteries must be removed and disposed of separately for proper recycling. The packaging materials are recyclable. Dispose of packaging materials in an environmentally sound manner and place them at the disposal of recycling sectors.

TRANSPORT AND STORAGE

Proper precautions must be taken so that the equipment can withstand the effects of transport and storage temperatures between -25°C and +55°C or up to +70°C for short periods that do not exceed 24 hours. Also, appropriate means to prevent damage from moisture, vibrations or shocks must be foreseen.



RECIRCULATION KITS

Table 1. Quick Reference.

Reference	Description	For Unit	Length Hoses
KT-00038	Recirculation heater to tank without dryers	For all pneumatic & hydraulic units except Easy & VR models	3 m
KT-00038-01	Recirculation heater to tank with dryer on ISO & POL	For all pneumatic & hydraulic units except Easy & VR models	3 m
KT-00038-02	Recirculation coupling block gun to tank with dryer on ISO & POL	For all pneumatic & hydraulic units except Easy & VR models	4 m
KT-00038-03	Recirculation heater to tank only with dryer on ISO	For all pneumatic & hydraulic units except Easy & VR models	3 m
KT-00038-04	Recirculation heater to tank with straight pipe	For pneumatic units Easy-Spray model	0.75 m
KT-00038-05	Recirculation heater to tank with curved pipe	For pneumatic units Easy-Spray model	0.6 m
KT-00038-06	Recirculation coupling block gun to tank with dryer on ISO & POL	For all pneumatic & hydraulic units except Easy & VR models	5 m
KT-00038-07	Recirculation coupling block gun to tank	For pneumatic units Easy-Spray model	4 m
KT-00038-08	Recirculation to tank with dryer only on ISO	For hydraulic units VR model	3 m
KT-00038-09	Recirculation to tank with dryer only on ISO	For hydraulic units VR model	5 m
KT-00038-10	Recirculation to tank with dryer on ISO & POL	For hydraulic units VR model	3 m
KT-00038-11	Recirculation heater to tank with dryer on ISO & POL	For all pneumatic & hydraulic units except Easy & VR models	5 m
KT-00038-12	Recirculation coupling block gun to tank with straight pipe	For hydraulic units Easy-Spray H model	0.75 m
KT-00038-13	Recirculation heater to tank with straight pipe	For hydraulic units Easy-Spray H model	0.75 m

KT-00038

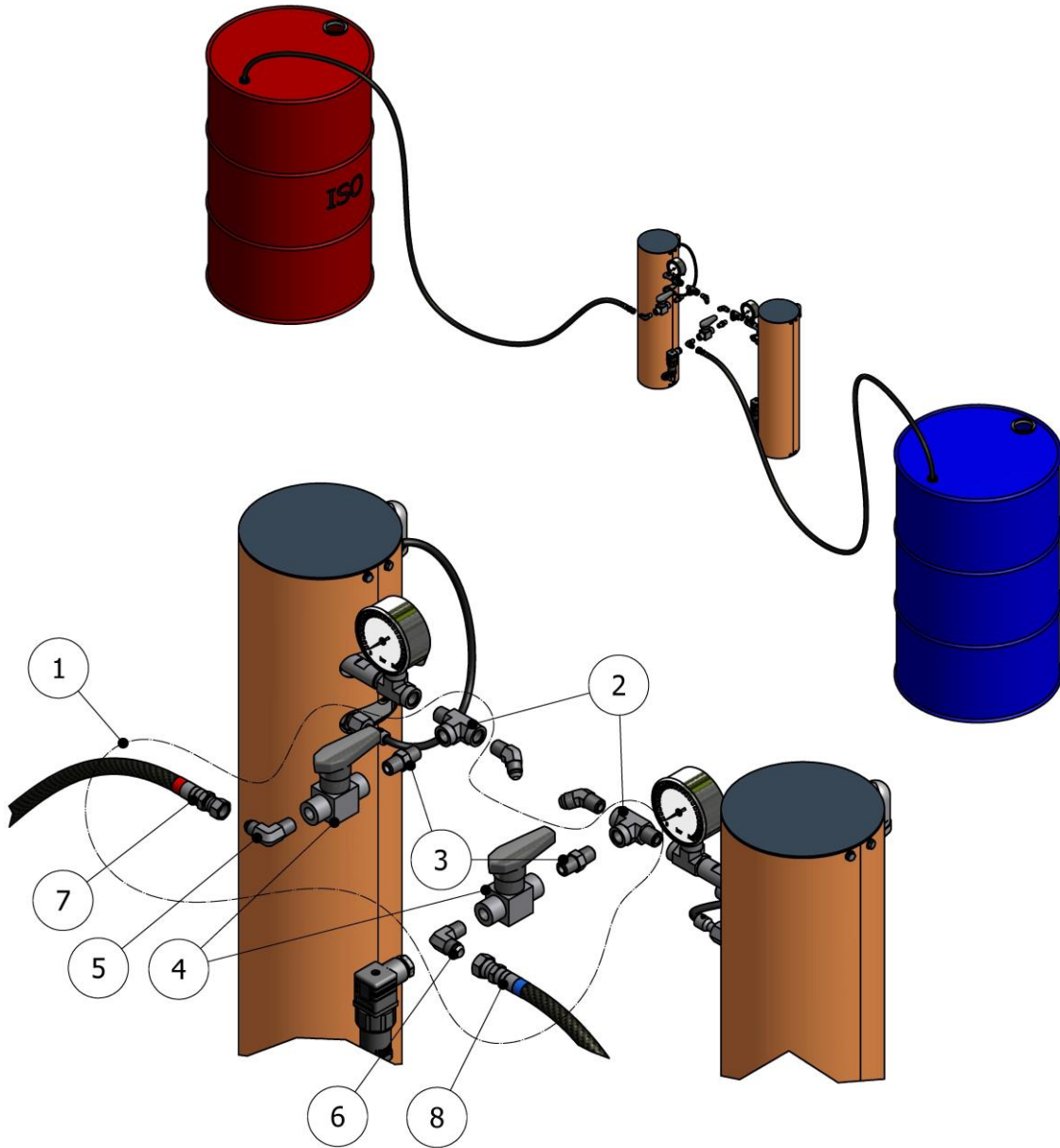


Figure 1. KT-00038 Assembly

Valid for all pneumatic & hydraulic units except Easy & VR models.

Recirculation heater to tank without dryers, length hoses 3 m.



Table 2. KT-00038 Parts List

Item	Description	Reference	Qty.
1	Recirculation Kit Heater to Tank	KT-00038	1
2	"T" Adapter	RA-00018	2
3	Nipple Union	RA-00188	2
4	Ball Valve	RA-00217	2
5	Elbow	RA-00254	1
6	Elbow	RA-00044	1
7	Hydraulic Hose 3/8" - 3m	MA-00050-01	1
8	Hydraulic Hose 3/8" - 3m	MA-00050-00	1

Notes:

Quantities per set.

Valid for all pneumatic & hydraulic units except Easy & VR models.

Recirculation heater to tank without dryers, length hoses 3 m.

KT-00038-01

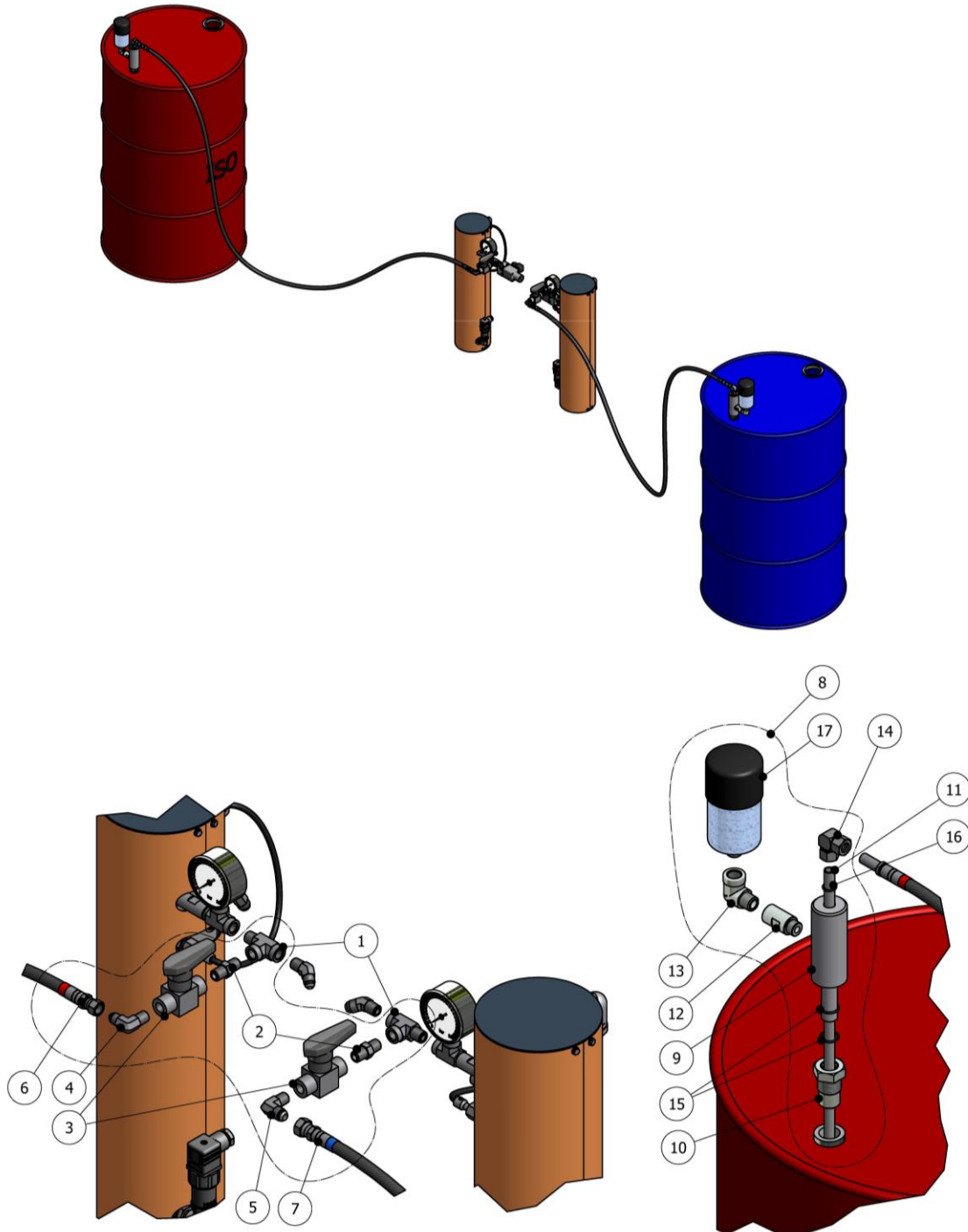


Figure 2. KT-00038-01 Assembly

Valid for all pneumatic & hydraulic units except Easy & VR models.

Recirculation heater to tank with dryer on ISO & POL, length hoses 3 m.

**Table 3. KT-00038-01 Parts List**

Item.	Description	Reference	Qty.
1	"T" Adapter	RA-00018	2
2	Nipple Union	RA-00188	2
3	Ball Valve	RA-00217	2
4	Elbow	RA-00254	1
5	Elbow	RA-00044	1
6	Hydraulic Hose 3/8" x 3 m ISO	MA-00050-01	1
7	Hydraulic Hose 3/8" x 3 m POL	MA-00050-00	1
8	Tank Adapter Kit with dryer (*)	MQ-05009-00	2
9	Body Adapter Tank	MQ-05010	2
10	Recirculation Adapter ISO Tank	MQ-05009	2
11	Pipe	HI-00075	2
12	Lengthen	RA-00256	2
13	Elbow	RA-00257	2
14	Elbow for pipe	RA-00200	2
15	O-Ring	OR-00055	4
16	O-Ring	OR-00011	2
17	Dryer	NE-00045	2

Notes:

Quantities per set.

(*) Items from 9 to 17 are included.

Valid for all pneumatic & hydraulic units except Easy & VR models.

Recirculation heater to tank with dryer on ISO & POL, length hoses 3 m.

KT-00038-02

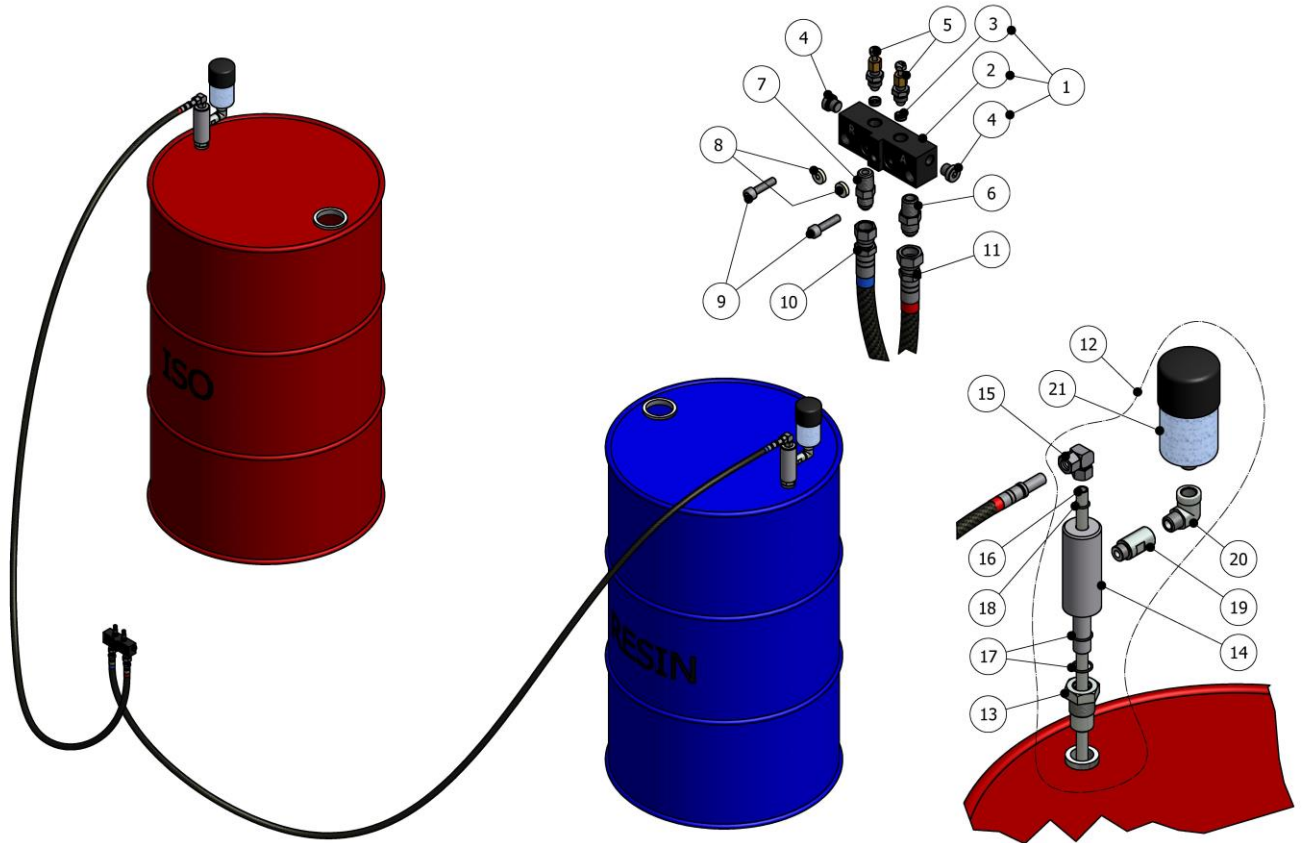


Figure 3. KT-00038-02 Assembly

Valid for all pneumatic & hydraulic units except Easy & VR models

Recirculation coupling block gun to tank with dryer on ISO & POL, length hoses 4 m.

**Table 4. KT-00038-02 Parts List**

Item	Description	Reference	Qty.
1	Recirculation Block Assembly (#)	GU-02137-00	1
2	Recirculation Coupling Block	GU-02137-01	1
3	Locking Ring	GU-02005-02A	2
4	Plug	RA-00211	2
5	Manual Valve Assembly	GU-02020-00G	2
6	Adapter	RA-00147	1
7	Adapter	RA-00146	1
8	Block Seal	GU-03012	2
9	Allen Screw	TN-00169	2
10	Hydraulic Hose 3/8" 4 m POL	MA-00050-04	1
11	Hydraulic Hose 3/8" 4 m ISO	MA-00050-05	1
12	Tank Adapter Kit with Dryer (*)	MQ-05009-00	2
13	Recirculation Adapter ISO Tank	MQ-05009	2
14	Body Tank Adapter	MQ-05010	2
15	Elbow for Pipe	RA-00200	2
16	Pipe	HI-00075	2
17	O-Ring	OR-00055	4
18	O-Ring	OR-00011	2
19	Lengthen	RA-00256	2
20	Elbow	RA-00257	2
21	Dryer	NE-00045	2

Notes:**Quantities per set.****(*) Items from 13 to 21 are included.****(#) Items from 2 to 4 are included.****Valid for all pneumatic & hydraulic units except Easy & VR models****Recirculation coupling block gun to tank with dryer on ISO & POL, length hoses 4 m.**

KT-00038-03

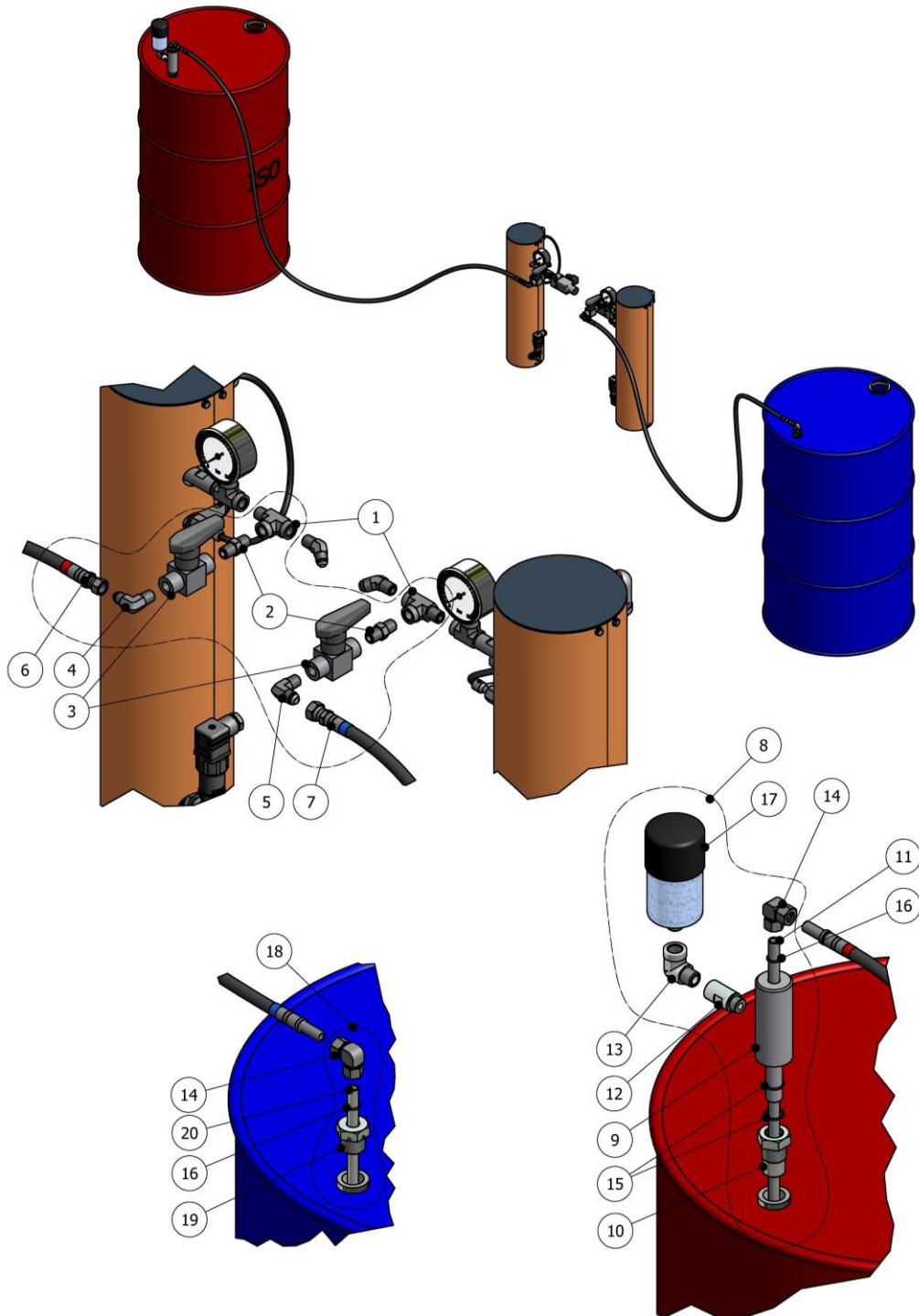


Figure 4. KT-00038-03 Assembly

Valid for all pneumatic & hydraulic units except Easy & VR models

Recirculation heater to tank with dryer only on ISO, length hoses 3 m

**Table 5. KT-00038-03 Parts List**

Item.	Description	Reference	Qty.
1	"T" adapter	RA-00018	2
2	Nipple Union	RA-00188	2
3	Ball Valve	RA-00217	2
4	Elbow	RA-00254	1
5	Elbow	RA-00044	1
6	Hydraulic Hose 3/8" x 3 m ISO	MA-00050-01	1
7	Hydraulic Hose 3/8" x 3 m POL	MA-00050-00	1
8	Tank Adapter Kit with Dryer (*)	MQ-05009-00	1
9	Body Tank Adapter	MQ-05010	1
10	Recirculation Adapter ISO Tank	MQ-05009	1
11	Pipe	HI-00075	1
12	Lengthen	RA-00256	1
13	Elbow	RA-00257	1
14	Elbow for Pipe	RA-00200	1+1
15	O-Ring	OR-00055	2
16	O-Ring	OR-00011	1+1
17	Dryer	NE-00045	1
18	Tank Adapter Kit without Dryer (#)	MQ-05010-00	1
19	Recirculation Adapter POL Tank	MQ-05009-A	1
20	Pipe	HI-00075-A	1

Notes:**Quantities per set.****(*) Items from 9 to 17 are included.****(#) Items 19, 20, 14 & 16 are included.****Valid for all pneumatic & hydraulic units except Easy & VR models****Recirculation heater to tank with dryer only on ISO, length hoses 3 m**

KT-00038-04

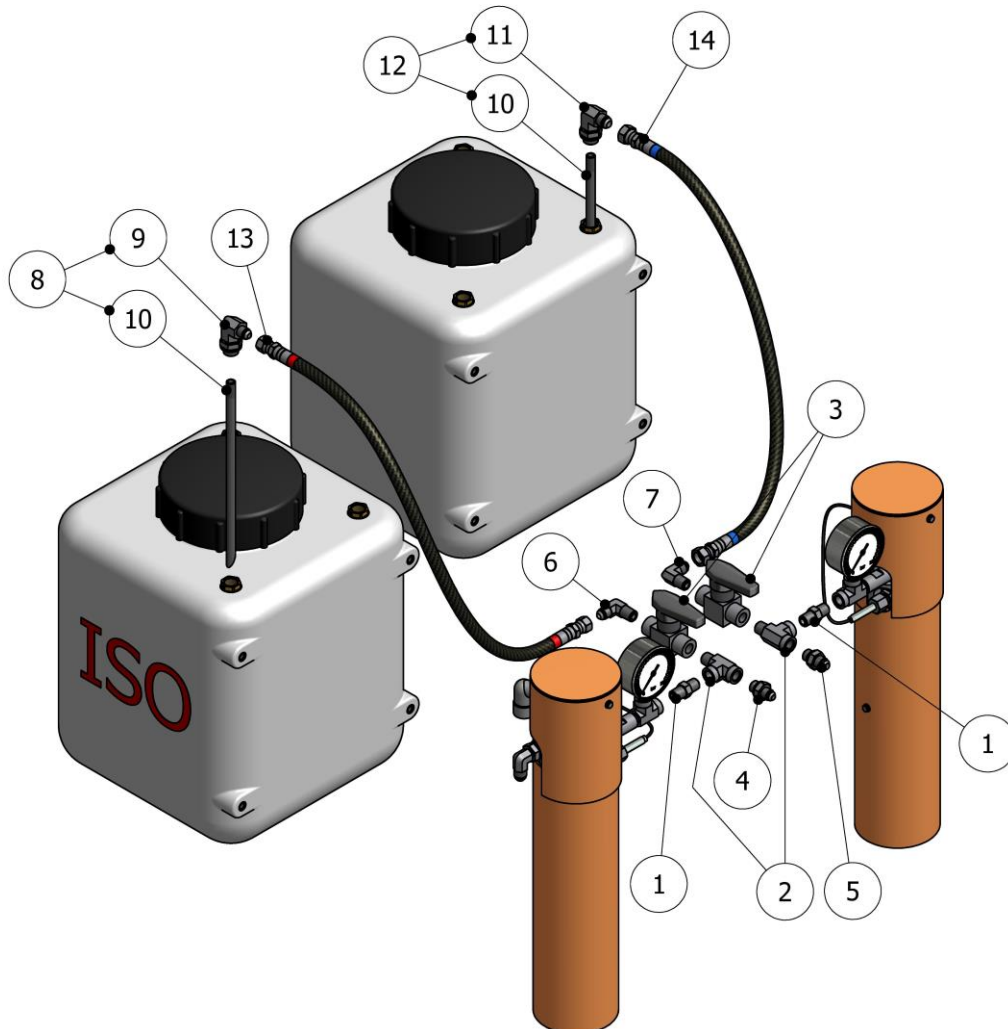


Figure 5. KT-00038-04 Assembly

Valid for pneumatic units Easy-Spray model.

Recirculation heater to tank with straight pipe, length hoses 0.75 m.

**Table 6. KT-00038-04 Parts List**

Item.	Description	Reference	Qty.
1	Nipple Union	RA-00188	2
2	"T" Adapter	RA-00018	2
3	Ball Valve	RA-00217	2
4	Nipple Union	RA-00146	1
5	Nipple Union	RA-00147	1
6	Elbow	RA-00254	1
7	Elbow	RA-00044	1
8	Elbow Assy. with ISO threaded Pipe (*)	RA-00351	1
9	Elbow with internal thread	RA-00351-01	1
	Elbow (Raw Material)	RA-00345	
10	Pipe	RA-00352-02	1+1
11	Elbow with internal thread	RA-00352-01	1
	Elbow (Raw Material)	RA-00344	
12	Elbow Assy. with POL threaded Pipe (#)	RA-00352	1
13	Hydraulic Hose 3/8" x 0.75 m ISO	MA-00050-02	1
14	Hydraulic Hose 3/8" x 0.75 m POL	MA-00050-03	1

Notes:**Quantities per set.****(*) Items 9 & 10 are included.****(#) Items 10 & 11 are included.****Valid for pneumatic units Easy-Spray model.****Recirculation heater to tank with straight pipe, length hoses 0.75 m.**

KT-00038-05

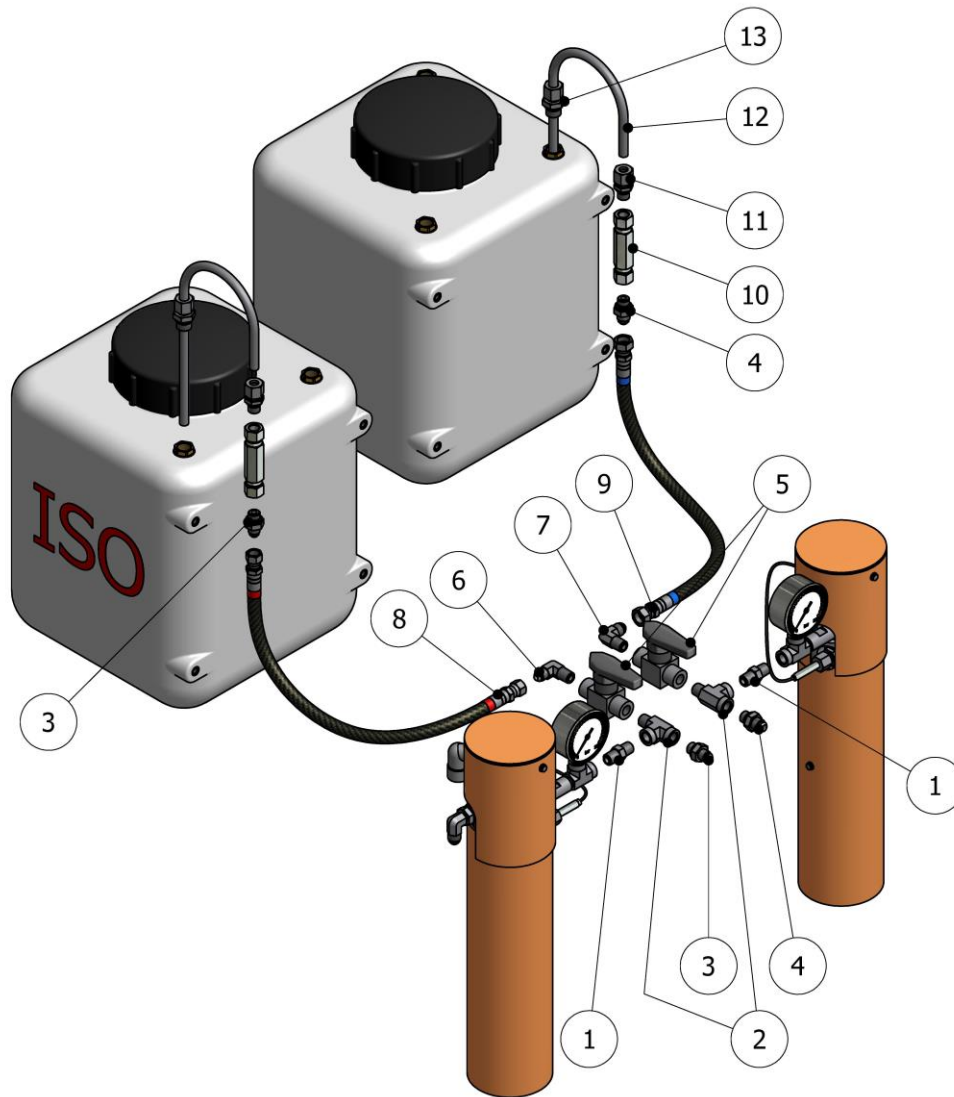


Figure 6. KT-00038-05 Assembly

Valid for pneumatic units Easy-Spray model.

Recirculation heater to tank with curved pipe, length hoses 0.6 m.



Table 7. KT-00038-05 Parts List

Item.	Description	Reference	Qty.
1	Nipple	RA-00188	2
2	"T" Adapter	RA-00018	2
3	Adapter	RA-00146	2
4	Adapter	RA-00147	2
5	Ball Valve	RA-00217	2
6	Elbow	RA-00254	1
7	Elbow	RA-00044	1
8	Hydraulic Hose 3/8" x 0.6 m - ISO	MA-00050-11	1
9	Hydraulic Hose 3/8" x 0.6 m - POL	MA-00050-10	1
10	Sensor Lengthen	RA-00332	2
11	Pipe Adapter	RA-00567	2
12	Curved Pipe	MQ-06016	2
13	Pipe Adapter	RA-00282	2

Notes:

Quantities per set.

Valid for pneumatic units Easy-Spray model.

Recirculation heater to tank with curved pipe, length hoses 0.6 m.

KT-00038-06

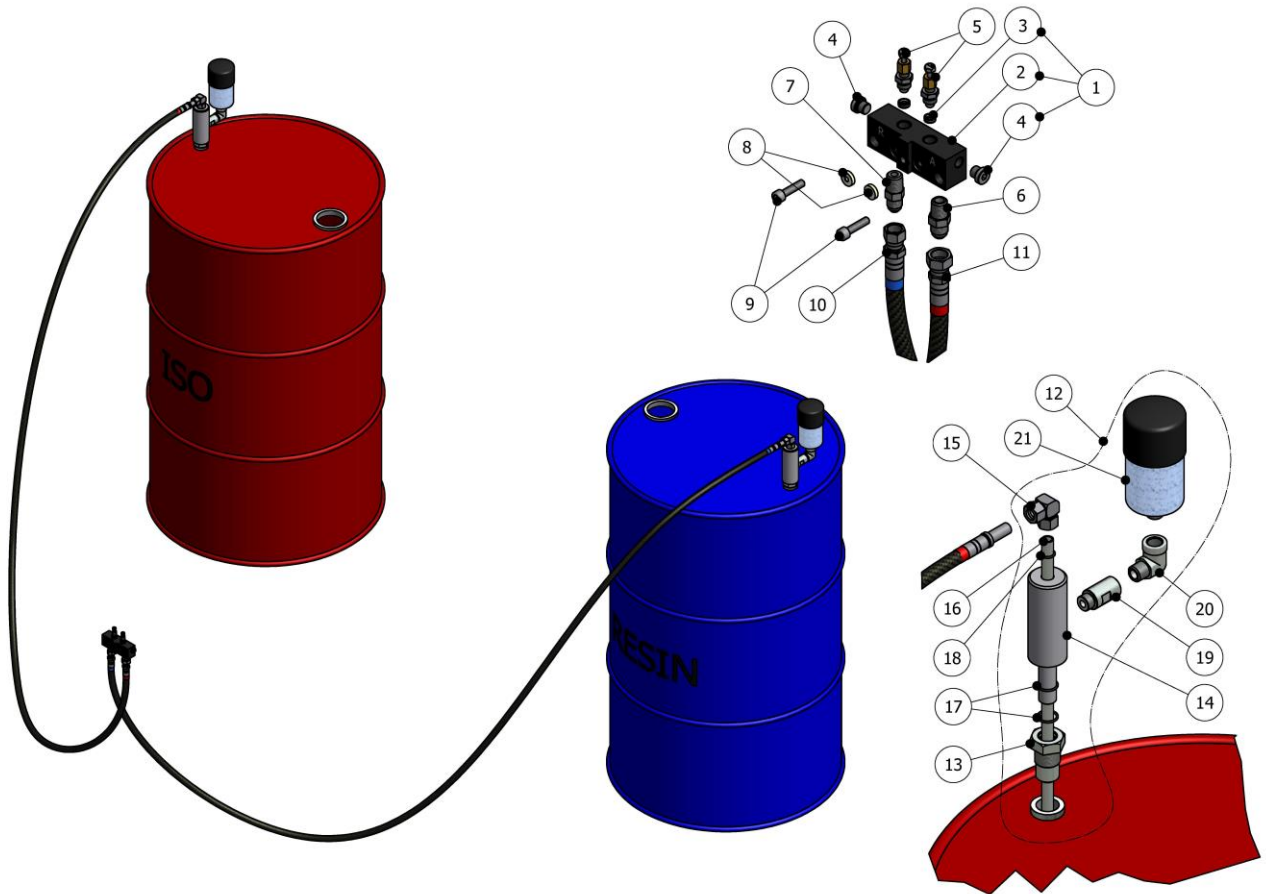


Figure 7. KT-00038-06 Assembly

Valid for pneumatic & hydraulic units except Easy & VR models.

Recirculation coupling block gun to tank with dryer on ISO & POL, length hoses 5 m.

**Table 8. KT-00038-06 Parts List**

Item.	Description	Reference	Qty.
1	Recirculation Block Assembly (#)	GU-02137-00	1
2	Recirculation Coupling Block	GU-02137-01	1
3	Locking Ring	GU-02005-02A	2
4	Plug	RA-00211	2
5	Manual Valve Assembly	GU-02020-00G	2
6	Adapter	RA-00147	1
7	Adapter	RA-00146	1
8	Block Seal	GU-03012	2
9	Allen Screw	TN-00169	2
10	Hydraulic Hose 3/8" 5 m ISO	MA-00050-07	1
11	Hydraulic Hose 3/8" 5 m POL	MA-00050-06	1
12	Tank Adapter Kit with Dryer (*)	MQ-05009-00	2
13	Recirculation Adapter ISO Tank	MQ-05009	2
14	Body Tank Adapter	MQ-05010	2
15	Elbow for Pipe	RA-00200	2
16	Pipe	HI-00075	2
17	O-Ring	OR-00055	4
18	O-Ring	OR-00011	2
19	Lengthen	RA-00256	2
20	Elbow	RA-00257	2
21	Dryer	NE-00045	2

Notes:

Quantities per set.

(*) Items from 13 to 21 are included.

(#) Items from 2 to 4 are included.

Valid for pneumatic & hydraulic units except Easy & VR models.

Recirculation coupling block gun to tank with dryer on ISO & POL, length hoses 5 m.

KT-00038-07

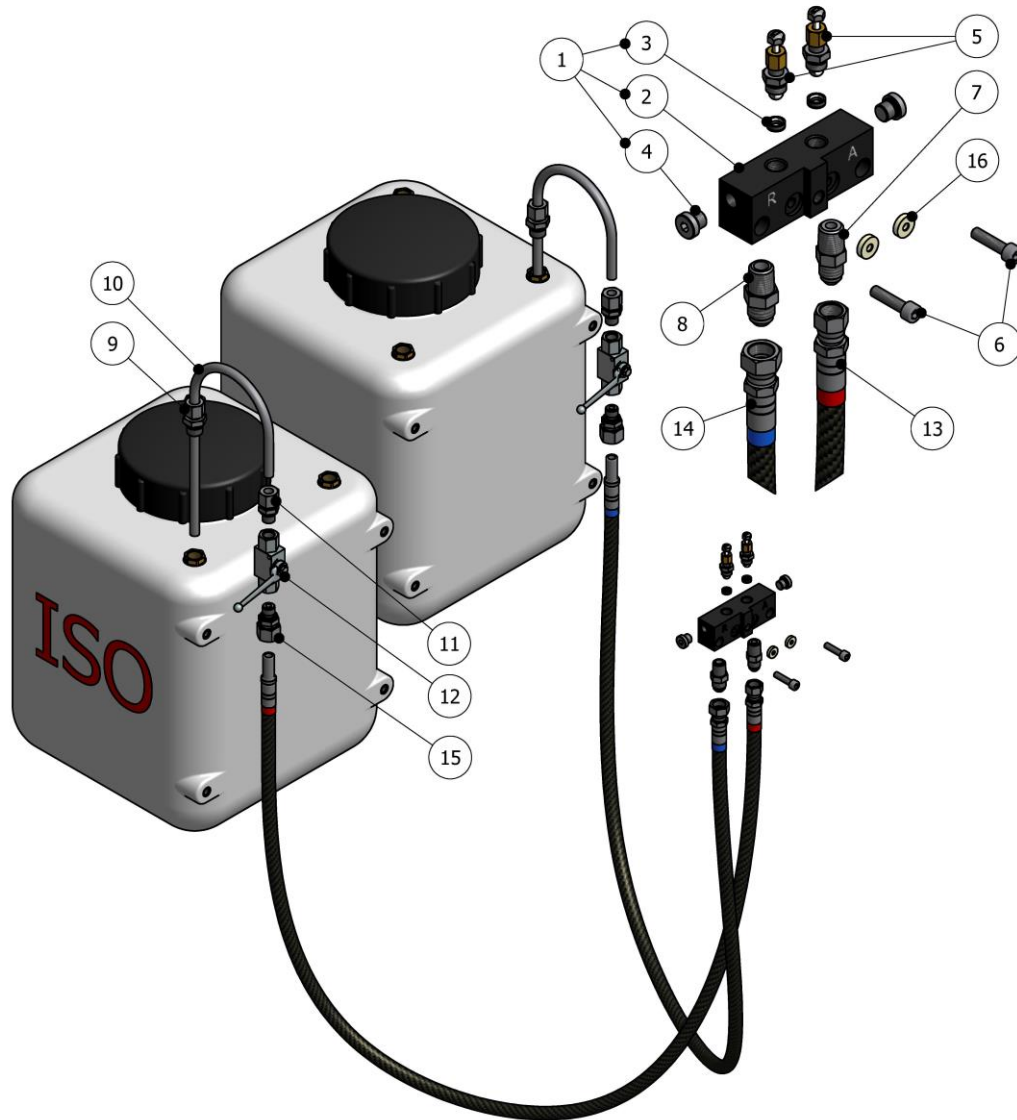


Figure 8. KT-00038-07 Assembly

Valid for pneumatic units Easy-Spray model.

Recirculation coupling block gun to tank, length hoses 4 m.

**Table 9. KT-00038-07 Parts List**

Item.	Description	Reference	Qty.
1	Recirculation Block Assembly (#)	GU-02137-00	1
2	Recirculation Coupling Block	GU-02137-01	1
3	Locking Ring	GU-02005-02A	2
4	Plug	RA-00211	2
5	Manual Valve Assembly	GU-02020-00G	2
6	Allen Screw	TN-00169	2
7	Adapter	RA-00146	1
8	Adapter	RA-00147	1
9	Pipe Adapter	RA-00282	2
10	Curved Pipe	MQ-06016	2
11	Pipe Adapter	RA-00218	2
12	Ball Valve	RA-00217	1
13	Hydraulic Hose 3/8" 4m - ISO	MA-00050-05	1
14	Hydraulic Hose 3/8" 4m - POL	MA-00050-04	1
15	Pipe Adapter	RA-00182	2
16	Block Seal	GU-03012	2

Notes:

Quantities per set.

(#) Items from 2 to 4 are included.

Valid for pneumatic units Easy-Spray model.

Recirculation coupling block gun to tank, length hoses 4 m.

KT-00038-08

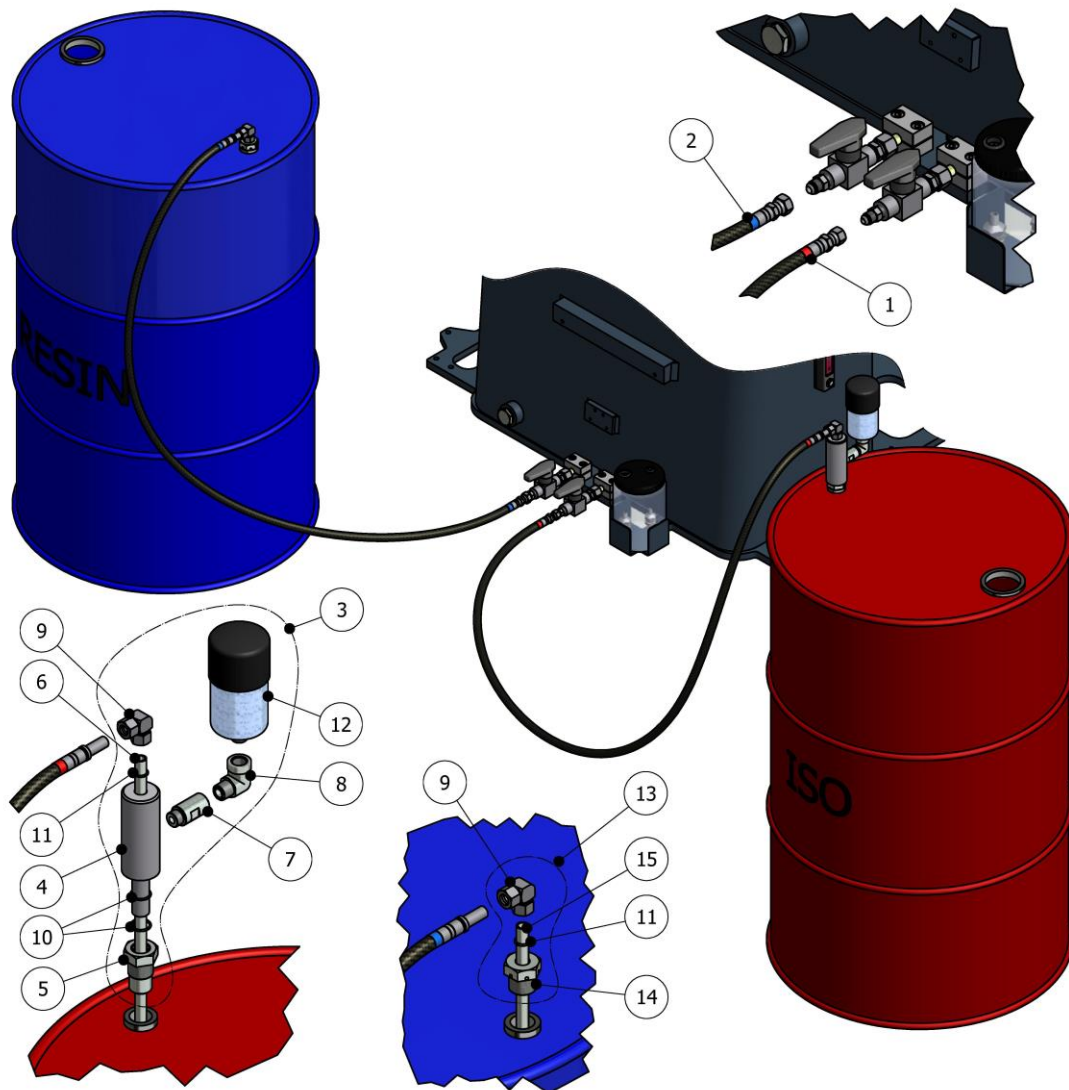


Figure 9. KT-00038-08 Assembly

Valid for hydraulic units VR model.

Recirculation to tank with dryer only on ISO, length hoses 3 m.



Table 10. KT-00038-08 Parts List

Item.	Description	Reference	Qty.
1	Hydraulic Hose 3/8" 3 m - ISO	MA-00050-01	1
2	Hydraulic Hose 3/8" 3 m - POL	MA-00050-00	1
3	Tank Adapter Kit with Dryer (*)	MQ-05009-00	1
4	Tank Body Adapter	MQ-05010	1
5	Recirculation Adapter ISO Tank	MQ-05009	1
6	Pipe	HI-00075	1
7	Lengthen	RA-00256	1
8	Elbow	RA-00257	1
9	Elbow for Pipe	RA-00200	1+1
10	O-Ring	OR-00055	2
11	O-Ring	OR-00011	1+1
12	Dryer	NE-00045	1
13	Tank Adapter Kit without Dryer (#)	MQ-05010-00	1
14	Recirculation Adapter POL Tank	MQ-05009-A	1
15	Pipe	HI-00075-A	1

Notes:

Quantities per set.

(*) Items from 4 to 12 are included.

(#) Items 14, 15, 9 & 11 are included.

Valid for hydraulic units VR model.

Recirculation to tank with dryer only on ISO, length hoses 3 m.

KT-00038-09

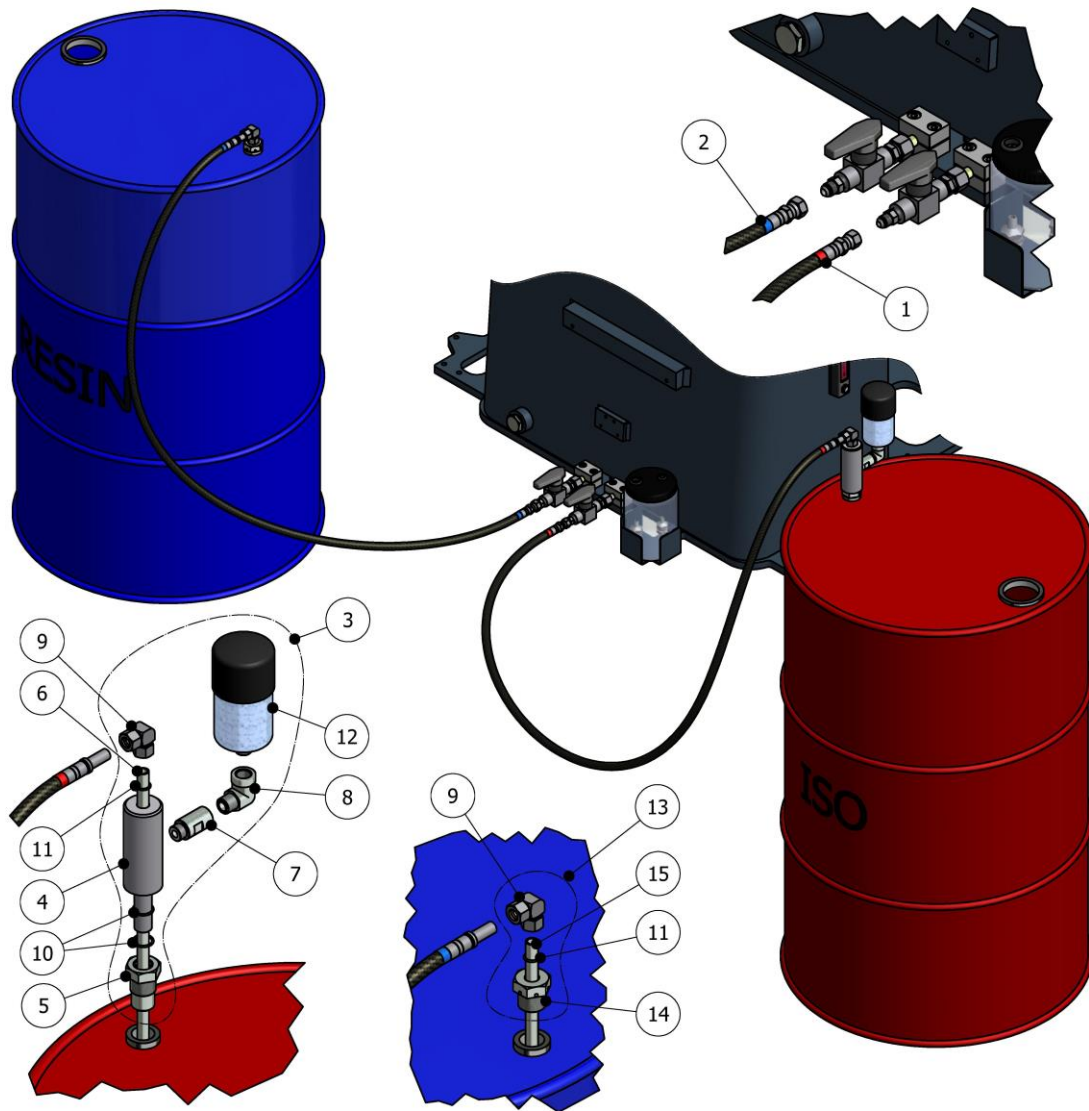


Figure 10. KT-00038-09 Assembly

Valid for hydraulic units VR model.

Recirculation to tank with dryer only on ISO, length hoses 5 m.

**Table 11. KT-00038-09 Parts List**

Item.	Description	Reference	Qty.
1	Hydraulic Hose 3/8" 5 m - ISO	MA-00050-06	1
2	Hydraulic Hose 3/8" 5 m - POL	MA-00050-07	1
3	Tank Adapter Kit with Dryer (*)	MQ-05009-00	1
4	Body Tank Adapter	MQ-05010	1
5	Recirculation Adapter ISO Tank	MQ-05009	1
6	Pipe	HI-00075	1
7	Lengthen	RA-00256	1
8	Elbow	RA-00257	1
9	Elbow for Pipe	RA-00200	1+1
10	O-Ring	OR-00055	2
11	O-Ring	OR-00011	1+1
12	Dryer	NE-00045	1
13	Tank Adapter Kit without Dryer (#)	MQ-05010-00	1
14	Recirculation Adapter POL Tank	MQ-05009-A	1
15	Pipe	HI-00075-A	1

Notes:

Quantities per set.

(*) Items from 4 to 12 are included.

(#) Items 14, 15, 9 & 11 are included.

Valid for hydraulic units VR model.

Recirculation to tank with dryer only on ISO, length hoses 5 m.

KT-00038-10

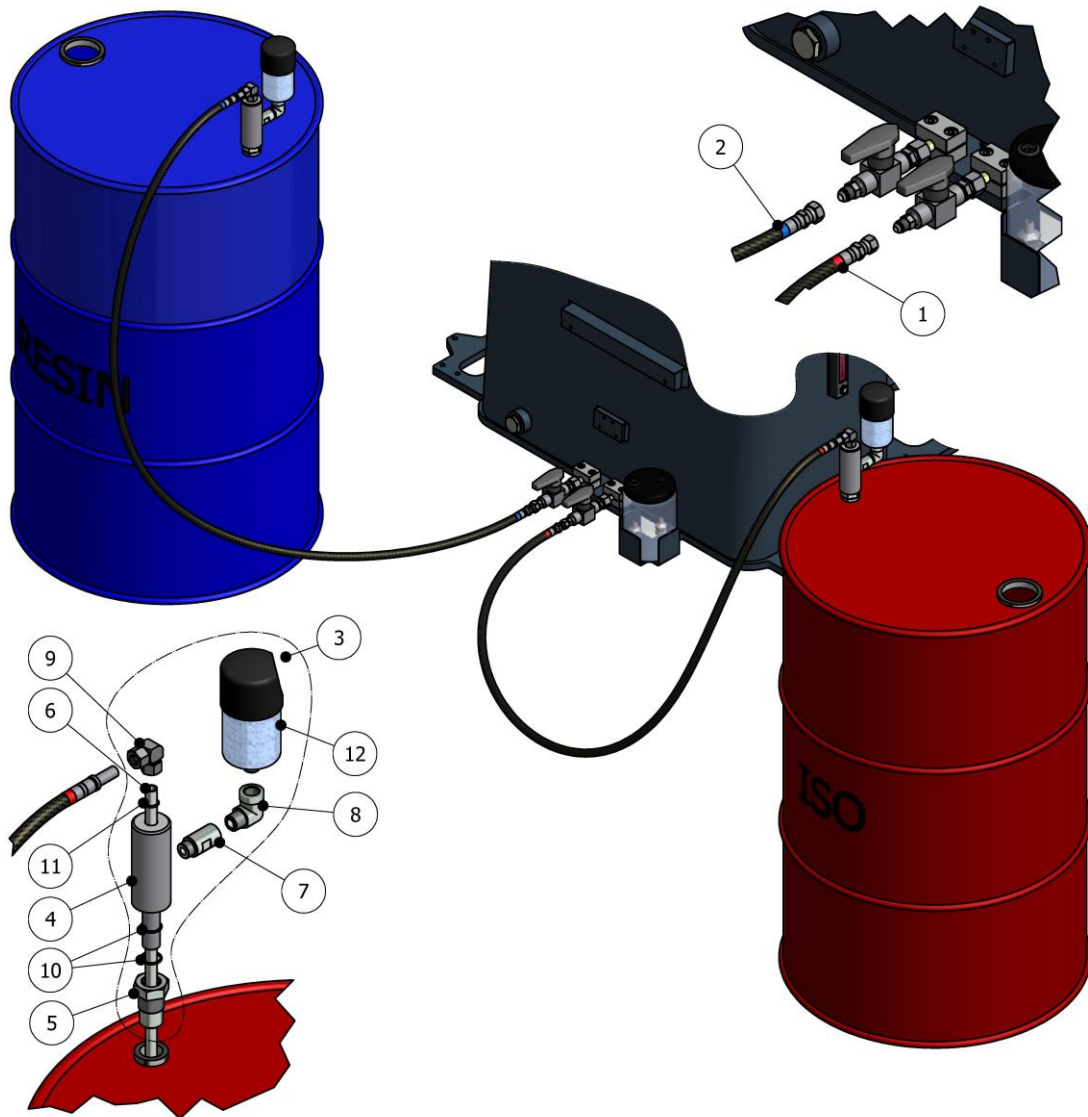


Figure 11. KT-00038-10 Assembly

Valid for hydraulic units VR model.

Recirculation to tank with dryer on ISO & POL, length hoses 2.5 m.

**Table 12. KT-00038-10 Parts List**

Item.	Description	Reference	Qty.
1	Hydraulic Hose 3/8" 3 m - ISO	MA-00050-01	1
2	Hydraulic Hose 3/8" 3 m - POL	MA-00050-00	1
3	Tank Adapter Kit with Dryer (*)	MQ-05009-00	2
4	Body Tank Adapter	MQ-05010	2
5	Recirculation Adapter ISO Tank	MQ-05009	2
6	Pipe	HI-00075	2
7	Lengthen	RA-00256	2
8	Elbow	RA-00257	2
9	Elbow for Pipe	RA-00200	2
10	O-Ring	OR-00055	4
11	O-Ring	OR-00011	2
12	Dryer	NE-00045	2

Notes:

Quantities per set.

(*) Items from 4 to 12 are included.

Valid for hydraulic units VR model.

Recirculation to tank with dryer on ISO & POL, length hoses 3 m.

KT-00038-11

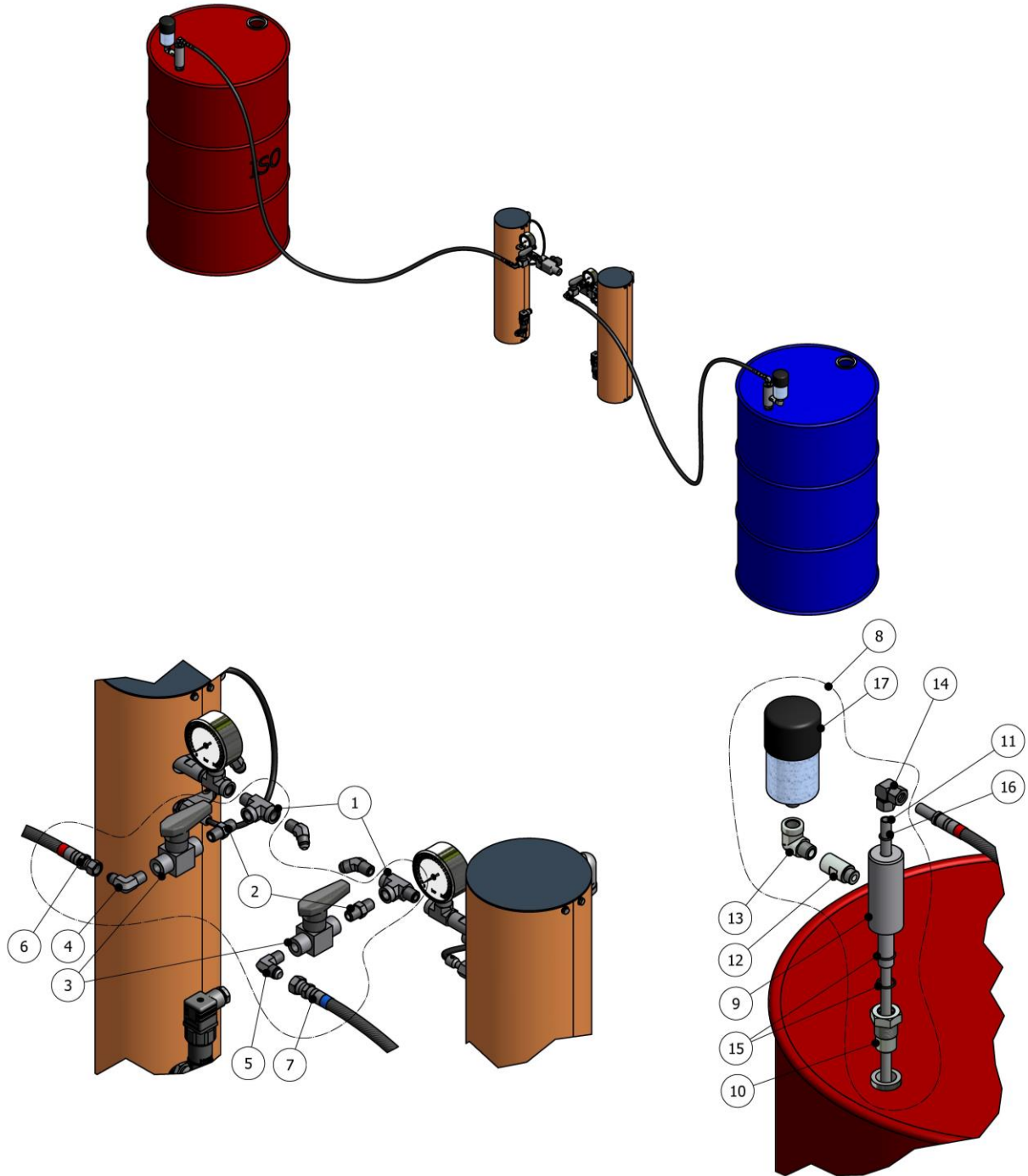


Figure 12. KT-00038-11 Assembly

Valid for pneumatic & hydraulic units except Easy & VR models.

Recirculation heater to tank with dryer on ISO & POL, length hoses 5 m.

**Table 13. KT-00038-11 Parts List**

Item.	Description	Reference	Qty.
1	"T" adapter	RA-00018	2
2	Nipple Union	RA-00188	2
3	Ball Valve	RA-00217	2
4	Elbow	RA-00254	1
5	Elbow	RA-00044	1
6	Hydraulic Hose 3/8" x 5 m ISO	MA-00050-07	1
7	Hydraulic Hose 3/8" x 5 m POL	MA-00050-06	1
8	Tank Adapter Kit with Dryer (*)	MQ-05009-00	2
9	Body Tank Adapter	MQ-05010	2
10	Recirculation Adapter ISO Tank	MQ-05009	2
11	Pipe	HI-00075	2
12	Lengthen	RA-00256	2
13	Elbow	RA-00257	2
14	Elbow for Pipe	RA-00200	2
15	O-Ring	OR-00055	4
16	O-Ring	OR-00011	2
17	Dryer	NE-00045	2

Notes:

Quantities per set.

(*) Items from 9 to 17 are included.

Valid for pneumatic & hydraulic units except Easy & VR models.

Recirculation heater to tank with dryer on ISO & POL, length hoses 5 m.

KT-00038-12

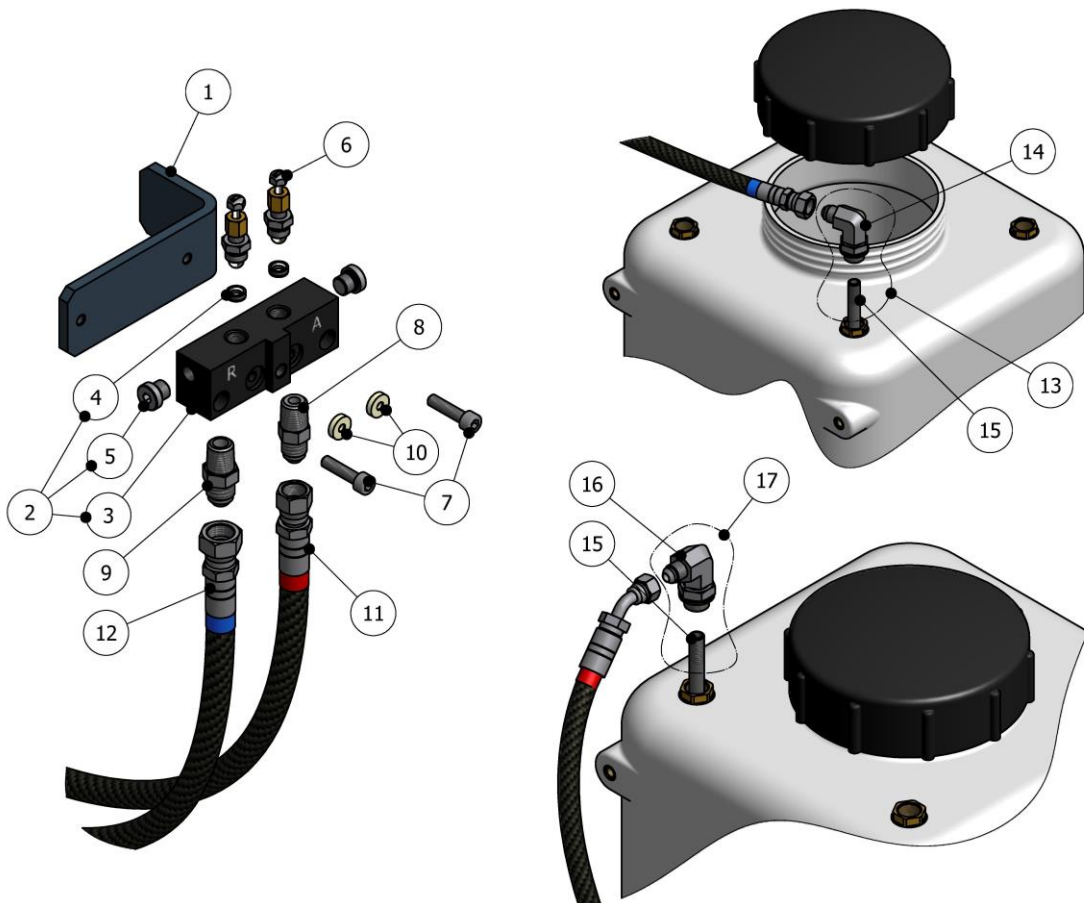


Figure 13. KT-00038-12 Assembly

Valid for hydraulic units Easy-Spray H model.

Recirculation coupling block gun to tank with straight pipe, length hoses 0.75 m.

**Table 14. KT-00038-12 Parts List**

Item.	Description	Reference	Qty.
1	Recirculation Coupling Block Support	MQ-01017-01	1
2	Recirculation Block Assembly (@)	GU-02137-00	1
3	Recirculation Coupling Block	GU-02137-01	1
4	Locking Ring	GU-02005-02A	2
5	Plug	RA-00211	2
6	Manual Valve	GU-02020-00G	2
7	Allen Screw	TN-00169	2
8	Adapter	RA-00146	1
9	Adapter	RA-00147	1
10	Seal Block	GU-03012	2
11	Hydraulic Hose 3/8" 0.75 m - ISO	MA-00050-12	1
12	Hydraulic Hose 3/8" 0.75 m - POL	MA-00050-02	2
13	Elbow Assy. with POL threaded Pipe (*)	RA-00352	1
14	Elbow with internal thread	RA-00352-01	1
	Elbow (Raw Material)	RA-00344	
15	Pipe	RA-00352-02	1+1
16	Elbow with internal thread	RA-00351-01	1
	Elbow (Raw Material)	RA-00345	
17	Elbow Assy. with ISO threaded Pipe (#)	RA-00351	1
18	Allen Screw (\$)	TN-00054	1

Notes:**Quantities per set.****(@) Items from 3 to 5 are included.****(*) Items 14 & 15 are included.****(#) Items 15 & 16 are included.****(\$) Not shown on draw, to replace one screw to fix the tank to the frame.****Valid for hydraulic units Easy-Spray H model.****Recirculation coupling block gun to tank with straight pipe, length hoses 0.75 m.**

KT-00038-13

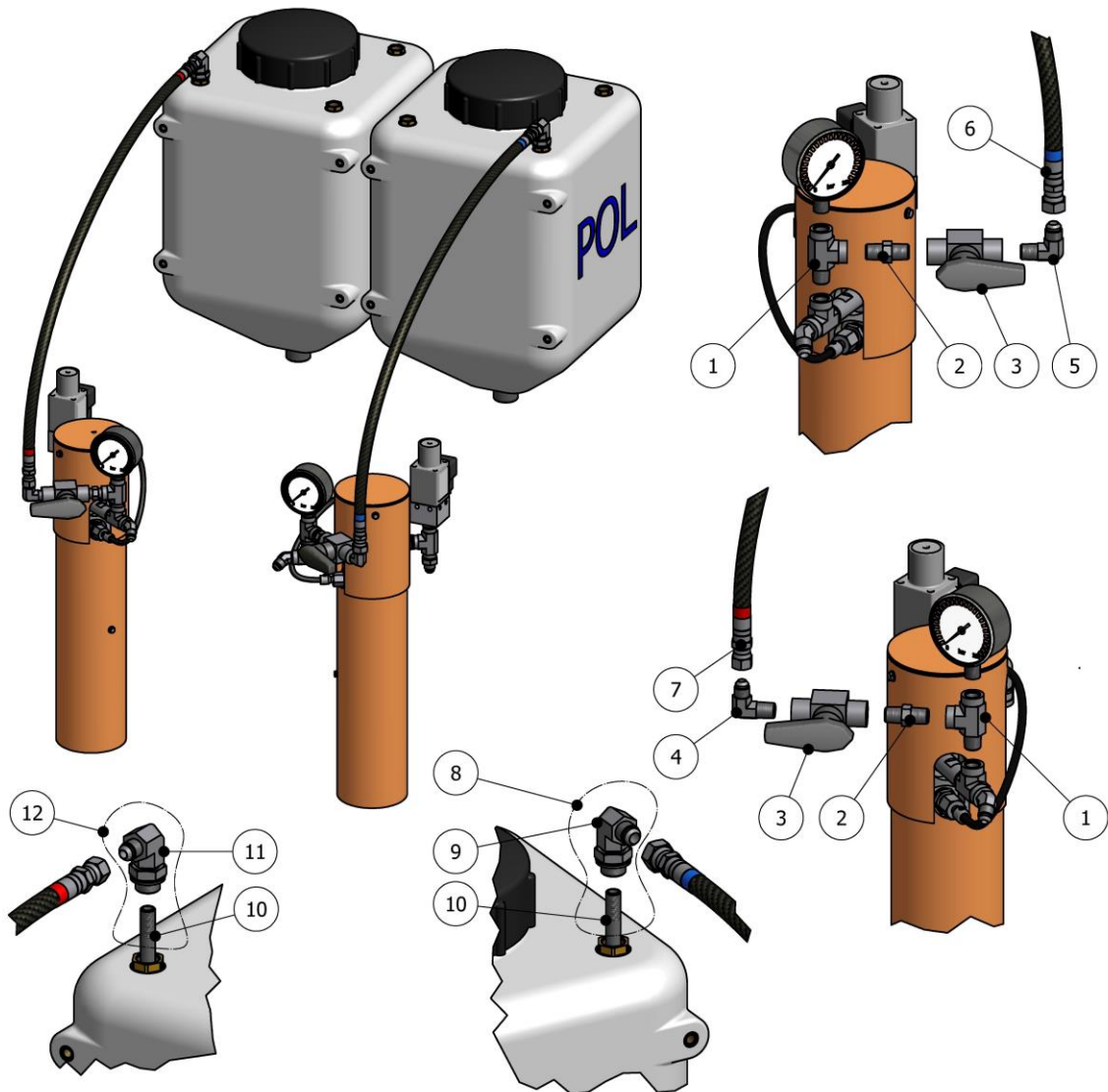


Figure 14. KT-00038-13 Assembly

Valid for hydraulic units Easy-Spray H model.

Recirculation heater to tank with straight pipe, length hoses 0.75 m.

**Table 15. KT-00038-13 Parts List**

Item.	Description	Reference	Qty.
1	"T" Adapter	RA-00018	2
2	Nipple	RA-00188	2
3	Ball Valve	RA-00217	2
4	Elbow	RA-00254	1
5	Elbow	RA-00044	1
6	Hydraulic Hose 3/8" 0.75 m POL	MA-00050-02	1
7	Hydraulic Hose 3/8" 0.75 m ISO	MA-00050-03	1
8	Elbow Assy. with POL threaded Pipe (*)	RA-00352	1
9	Elbow with internal thread	RA-00352-01	1
	Elbow (Raw Material)	RA-00344	
10	Pipe	RA-00352-02	1+1
11	Elbow with internal thread	RA-00351-01	1
	Elbow (Raw Material)	RA-00345	
12	Elbow Assy. with ISO threaded Pipe (#)	RA-00351	1

Notes:**Quantities per set.****(*) Items 9 & 10 are included.****(#) Items 10 & 11 are included.****Valid for hydraulic units Easy-Spray H model.****Recirculation heater to tank with straight pipe, length hoses 0.75 m.**

METHOD OF THREADED UNION OF THE HOSES

Follow the torques for threaded joints listed in **Table 16** according to thread sizes of hose fittings to ensure their proper assembly.

There is also an alternative procedure to obtain an equivalent torque without using special tools: joint both ends of the hoses to be connected, tighten a swivel nut by hand (without using spanner) until there is resistance on the nut. Fit two spanners (1) on the fixed ends of the hoses and turn the swivel nut with a third spanner (2) as many flats from wrench resistance (FFWR) as indicated in **Table 16**.

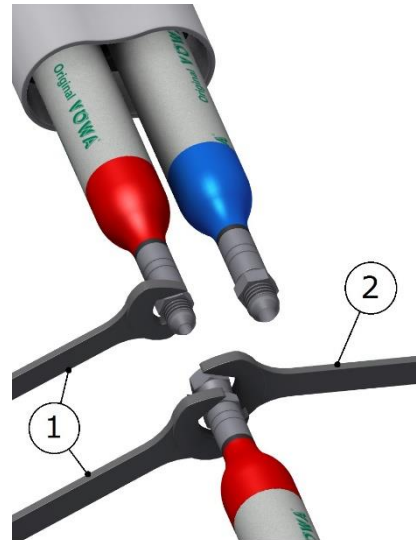


Table 16 - Tightening Threaded Joints		
THREAD SIZE	TORQUE Nm	FFWR
1/2"-20	23	2 (or 120°)
9/16"-18	30	1-1/2 (or 90°)

NOTE: 1 FFWR corresponds to one complete shear of a flat marked with red between swivel and fitting or else 60°.





CONTENT

Warranty	2
Safety and Handling	3
Recirculation Kits	4
KT-00038	5
KT-00038-01	7
KT-00038-02	9
KT-00038-03	11
KT-00038-04	13
KT-00038-05	15
KT-00038-06	17
KT-00038-07	19
KT-00038-08	21
KT-00038-09	23
KT-00038-10	25
KT-00038-11	27
KT-00038-12	29
KT-00038-13	31
METHOD OF THREADED Union OF THE HOSES	33
Content	34
List of Figures	35
List of Tables	36



LIST OF FIGURES

Figure 1. KT-00038 Assembly	5
Figure 2. KT-00038-01 Assembly	7
Figure 3. KT-00038-02 Assembly	9
Figure 4. KT-00038-03 Assembly	11
Figure 5. KT-00038-04 Assembly	13
Figure 6. KT-00038-05 Assembly	15
Figure 7. KT-00038-06 Assembly	17
Figure 8. KT-00038-07 Assembly	19
Figure 9. KT-00038-08 Assembly	21
Figure 10. KT-00038-09 Assembly	23
Figure 11. KT-00038-10 Assembly	25
Figure 12. KT-00038-11 Assembly	27
Figure 13. KT-00038-12 Assembly	29
Figure 14. KT-00038-13 Assembly	31



LIST OF TABLES

<i>Table 1. Quick Reference.</i>	4
Table 2. KT-00038 Parts List	6
Table 3. KT-00038-01 Parts List	8
Table 4. KT-00038-02 Parts List	10
Table 5. KT-00038-03 Parts List	12
Table 6. KT-00038-04 Parts List	14
Table 7. KT-00038-05 Parts List	16
Table 8. KT-00038-06 Parts List	18
Table 9. KT-00038-07 Parts List	20
Table 10. KT-00038-08 Parts List	22
Table 11. KT-00038-09 Parts List	24
Table 12. KT-00038-10 Parts List	26
Table 13. KT-00038-11 Parts List	28
Table 14. KT-00038-12 Parts List	30
Table 15. KT-00038-13 Parts List	32
<i>Table 16 - Tightening Threaded Joints</i>	33