

# Safety and Assembly instructions



Thank you for having purchased a Fliptop MULTI, here are the instructions for installation of our product. it occurring variants depending on the length, number of cylinders, and arches.

If you are unclear or have questions we or the bodybuilder who sold the stand are happy to support you.

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### **Important**

Shipping damage must be reported to the carrier. It is important to check the packaging when the goods arrives, if it is damaged an report to the driver at the delivery point. It is the deliverer that is responsible for the damages that arise on the cargo during the transport. The montage must be done according to our Assembly instructions for the material warranty.

### **Warranty**

it's 1 year material and workmanship warranty from us. For warranty to be valid, the system must follow our assembly instructions.

### **Safety**

Operating instructions must be read carefully before using the system, when the movable arms move with the help of hydraulics/pneumatics and without knowledge can result in serious personal injury and damage to the system to occur.



## Handling instructions Fliptop Multi

### General information

Fliptop Air is a roof system for covering essentially tippers and containers. Semiautomatic equipment consisting of 2 side panels with control arms, the ends are connected by steel tubes and covered with PVC fabric. The structure is opened and closed with one or two hydraulic/pneumatic cylinders that run together. The design is intended to cover tippers, containers.

This does not exclude other areas of use.

### Operating instructions

Please read this documentation and familiarize yourself with the equipment before using it.

Fliptop Multi systems operated by hydraulic/pneumatic power or manual arms, driven systems are controlled from the vehicle and can only be operated if the vehicle have compressed air or hydraulic unit running, at such an installation, the system can be operated from the cab in some cases.

The equipment can then either run with radio, push buttons on the electricity box or from the cab. Other options are to operate with a manual valve adjacent to the platform.

the manual system can be operated with the manual arms.

This means that the equipment can be operated without the vehicle is started, however, when service and maintaining the compressed air/ hydraulic unit shall be switched off so that the equipment can not be operated. This also applies to other work where you can get hurt if the system moves.

### When you open and close Fliptop Multi you need to oversee and make sure that no one can be hurt.

The pneumatic, hydraulic or manually operated movements are very strong and can cause very serious damage if become pinched or hit. If your Fliptop Multi have radio control, be extra careful, be sure to keep an eye on the transmitter so that it's not inadvertently turned on and operates when someone are near the moving parts. It is also important not to open or close during journey. If you must perform service or other work on the system, it is imperative to break the air supply / powerpack to Fliptop system. If the system is locked with straps, do not forget to loosen them before operating.

### Important information !

In strong winds, it is necessary to clamp the opening page of Fliptop Multi with straps, there is anchor rings in the front and back, use both to avoid the system beeing sucked up because of the negative pressure that occurs when the wind passes the dorsal ridge. The wind can bend the connecting rods and seriously damage the system. During loading and unloading, it is important to keep an eye on the load so it wont end up in the front or rear end's link mechanism, if this happens, a cleaning must be done before the using the system. If the load fills the cargo space and tends to crumble into a coherent mass there's a risk that it will become an negative pressure in the truck bed, this can bend the tubes in the bed and severely damage your system, if this risk exists then open the roof to let in air before unloading.

During loading and unloading of tons of heavy stone, roots, or other things that can smash the ends it must be done with care. Fliptop Multi does not tolerate plenty of hits at the rear end of the unloading, if there is a middle support mounted in the center it can also be damaged during loading and unloading. If injuries occur, they shall be repaired immediately in order not to worsen.

## **Control every week**

We recommend that Fliptop Multi system is reviewed 1 time per week when using the system continuously, for this check, it is advisable to first check that the fabric is not damaged. Fliptop Multi system is secured in all the corners and at the two long sides, make sure the fixings are secure and that no bolts missing.

Open and close the system to control the movements are smooth and quiet, if not adjust the throttles for speed.

Open the system and check that the ends are clean of debris and lumps that may have ended up there during loading or unloading, it is necessary to clean these. The gables linkage should also be checked for damage and looseness. Fliptop Multi has one or two pneumatic/hydraulic cylinders or manual arms, check for leaks at the cylinders and hoses.

If you find damage, it is important to repair as quickly as possible, contact your local dealer or repair shop.

## **Maintenance every month**

We recommend that Fliptop Air greased up once per month with a grease gun and oilcan, it is important that all the system links go easy. If the system is lubricated and goes easily, it will have a long life and low maintenance cost. Normally there is no more maintenance other on a Fliptop Air system.

## **Safety instructions**

The equipment may only be operated by personal with adequate knowledge of the equipment and understanding of the risks arising from the operation of the pneumatic/ hydraulic driven movements.

The minimum requirement shall be review of this documentation, and a review of the equipment before the using of it.

At service and maintenance the pneumatics/ hydraulics must be switched off and disconnected so that the equipment can not be operated when there is a high risk of crushing when the equipment is operated.

Note that when maneuvering, always keep an eye not to cause damage to equipment or people.

## **Installation Instructions**

Purchasing Fliptop Multi system can be supplied as a kit or as assembled.

When buying a kit, a complete installation instructions of the system is included in this documentation. When buying the assembled system, remains only installation.

Upon receiving the shipment, it is important to verify that no visible damage or other damage occurred on the equipment, notify in this case carrier immediately, alternatively equipment supplier.

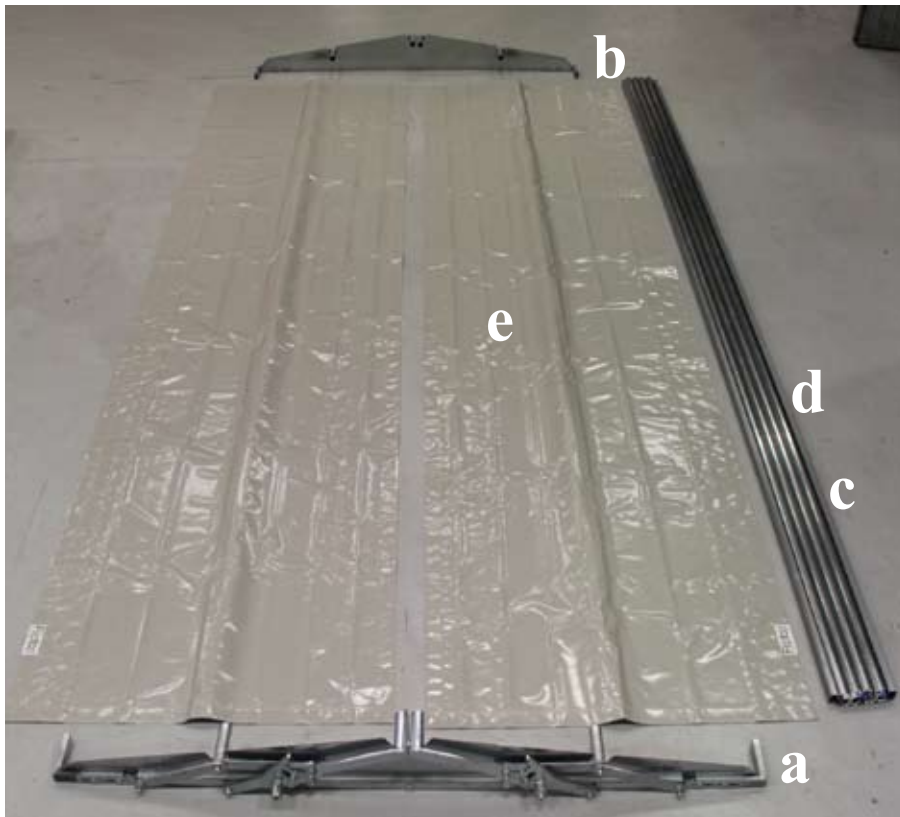
When installing Fliptop Multi, it is important to attach atleast 3 Brackets on the sidetube. One at each end and at least one in the middle, depending on length several might be needed. Carefully follow the instructions in the installation instructions.

It is also important to go through all pneumatic/ hydraulic fittings and see that they do not have any leaks. You should also check that the penumatic/ hydraulic movements do not go too fast, normally the throttles are included with the delivery of Fliptop Multi, with these the rate is adjusted to a peaceful movement, if the system runs smooth, it will have a long life and low maintenance cost.



**Never use the system without good overview to avoid injuries on equipment and people.**

## Article list Fliptop Multi



- a Gavel med Cylinder  
1-2pc  
if 2pc: *Then the gable without cylinder is not included.\**
- b Gable without Cylinder  
1pc
- c Steel tube 50x1,5  
4pc
- d Steel tube 50x30x2  
2pc
- e Tarpoulin and montage screw  
2pc

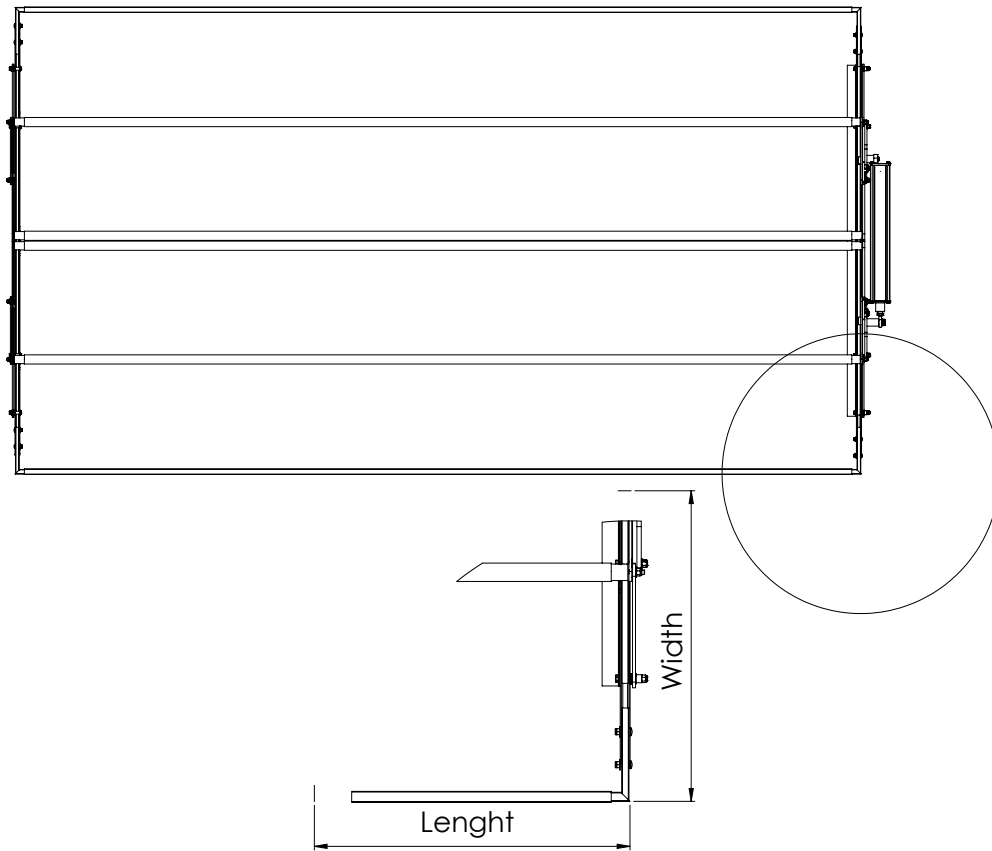
### Screw kit Multi 800-119

#### Included:

M8x45	x4
M8x65	x8
M8 BRB	x24
M8 Nylock	x12

\* Does not include the Fliptop Multi Manual system, this system uses a front and rear end in all of its configurations.

## Assembly instructions Fliptop Multi



Justrera in bredden på gavlarna genom att justera båda sidorna jämt fördelat.

Then cut the tubes (50x1,5 4pc and 50x30x2 2pc)

$50 \times 1,5 = \text{Lenght} - 20\text{mm}$

$50 \times 30 \times 2 = \text{Lenght} - 80\text{mm}$

Adjust the width by adjusting both sides equally



Remove burrs from the pipes inside and outside, and tape 4pc 50x1,5 tubes like the picture above.



Place the tarpoulin with the outside up and push in the four 50x1,5 tubes with tape ends first.  
(not to damage the fabric)  
*(if your Fliptop includes arch support you should carefully read the instructions provided)*



Thereafter bring one of the gables, start to shoot in 2 the fixed tubes (50x30x2)



Then push the other tubes in the first gable.  
if you must have a flap on the end should be installed before this step.



Bring the other gable and push in the tubes into it.



When pushing the pipes into the gable, it is good to have a hammer to knock in the last bit.

*NOTE!! Not the whole way in.*



**Be very careful when measure the distance before drilling holes and mounting it together, start with one gable.**

The side with 50x30x2 steel tube shall be mounted with M10x45 (1pc), 11x28x2 (2st) and a M10 locknut (1pc).

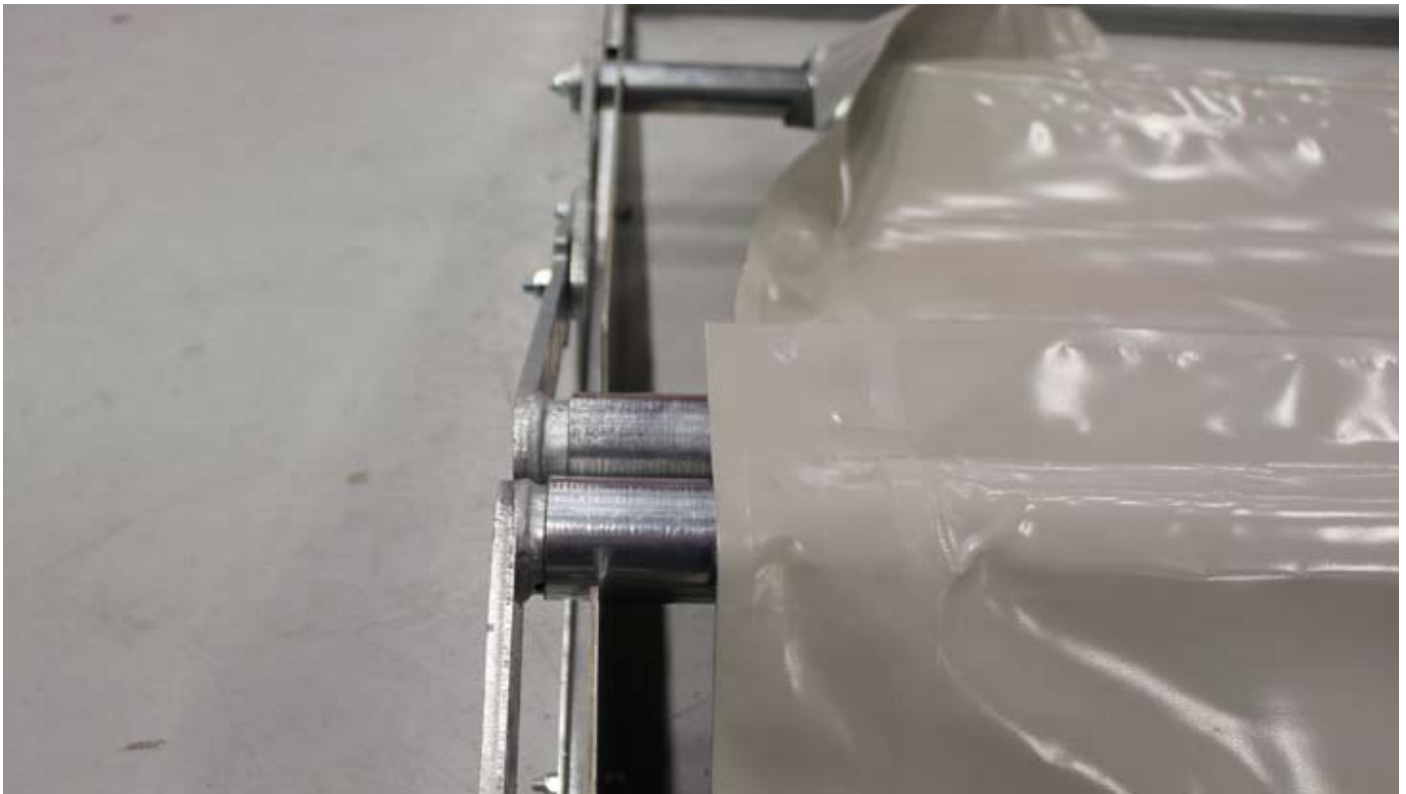
*NOTE! Dont screw the bolts to tight, cause they will be taken out and back again when the tarpoulin will be mounted.*



**Be sure to measure both sides thoroughly.**



After carefully measured again, drill and screw the system together at the other gable.



When the outer tubes are mounted, so can the inner tubes be in need to be adjusted.  
when the outer tubes is fixed, the outer tubes shall be drilled holes in and screwed, first check that all the arms are parallel, if not this should be corrected.



Each tube (the four inner 50x1,5) must now be drilled like the picture,  
*NOTE!! shall be drilled through the top of the tube, all the way.*

**Drill with Ø 8mm,**  
**If the hole is to large, it gives a gap at the opening.**



In the front end, the tarpaulin shall lie against the gable end, not over it



When the tarpaulin is in place its time to drill holes in the tarpaulin above the drilled holes through the tubes. Bolt together with M8x65 (1pc), BRB 9x28x2 (2pc) and M8 lock nut (1pc). Do this to all tubes.

*Take one side at a time.*



On the rear-end, the tarpaulin shall lie over the gableplate.

then repeat the latter step and drill holes in the tubes and then the tarpaulin, screw the system together.



Screw the tarpoulin along with the long sides with montage screws (5,5x20 + washer) that came with the tarpoulin.

**CC measurement is recommended to not more than 350mm.**

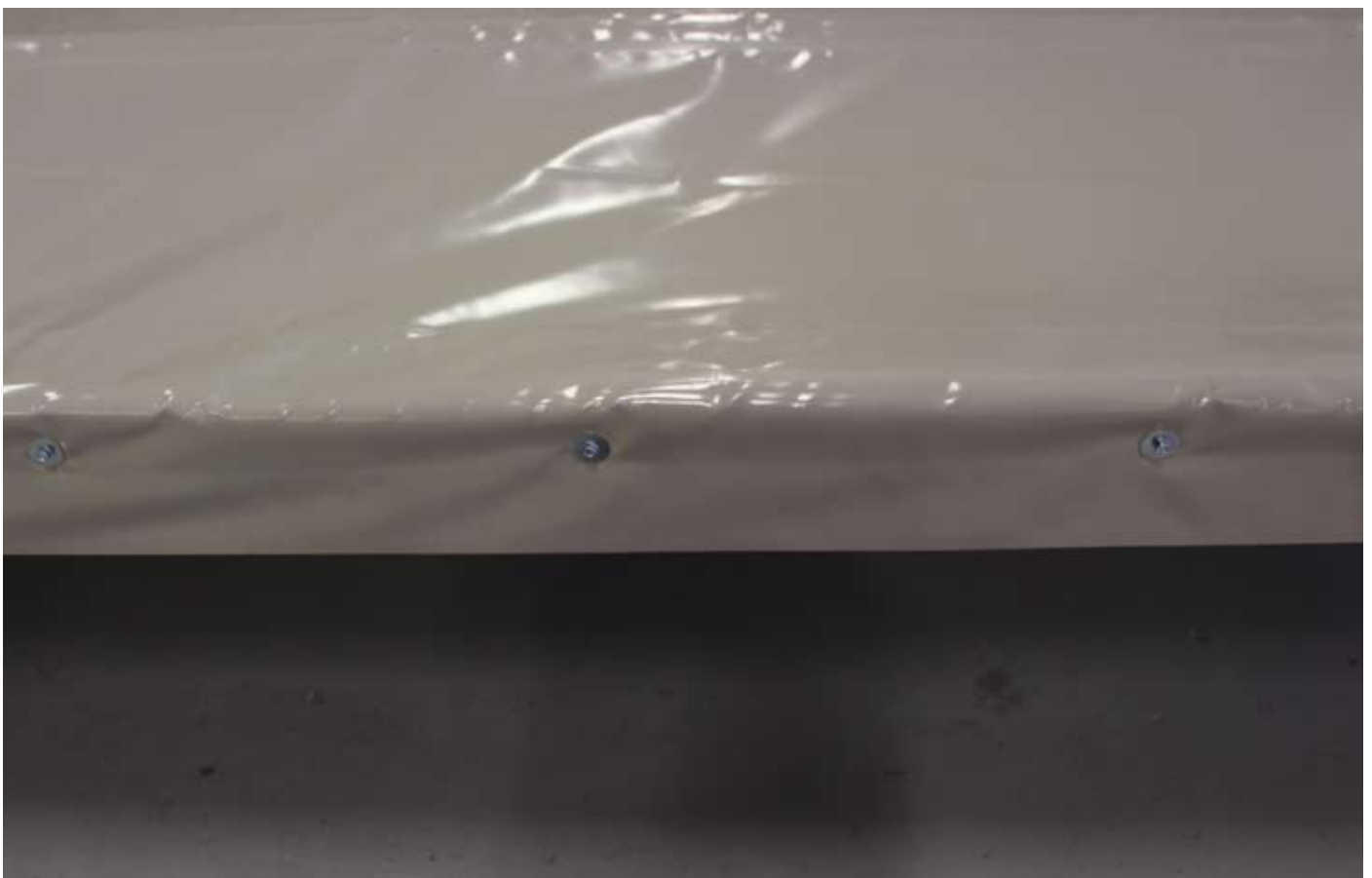
Take away the screws that holds the 50x30x2 tubes and fit through the tarpoulin.

*The tarpoulin shall be smooth on the top side, **NB !** At the center of the long side, it is easy to bend the tubes into the tarpoulin and get a waist measurement, measure the protrusion of the chapel during the tube to the fitting on the platform to get even tension on the chapel.*

**See next side for pictures.**



Be sure that the protrusion becomes constant along the long edge, measure from 50x30x2 pipes.





Now it is time for the hydraulic cylinder or pneumatic cylinder to be mounted, this will be done with the supplied bolts.



Fliptop Multi is now fully assembled, the system should now be lifted up and mounted on the top of the truck.

Ensure that the system is placed at the right place and screw it to the truck in all the corners. You can use either the 188-569-2 mount or 188-570-2 for fasten the 50x30x2 tubes. The tubes need to be mounted with at least 6pc M8. If the side tubes isn't attached at the middle the tarpaulin can create a waist and start to collect water.

The simple arch support is mounted where the length of the tubes make them bend.



Suitably mount the support in the middle of the platform. Screw or weld the mounting sleeves first, Therafter adjust the arc support so that the side tube is in line with the platform's outer surface and tarpoulin tensioned. Drill and screw down the bow on both sides.





At montage of the Fliptop Multi system with supplied arch support these instructions shall be followed. First read the whole assembly instructions, this part is an compliment

The sidetube 50x30x2 must be cut preferable in the middle (depending on the placement of the arch support), cut away 20mm per tube so a total of 40mm of the original tubelenght is cut away. Place the archsupport in the middle and fit with the tubes with the gables, screw the system together (sidetubes and middletubes). Thereafter time to center the arch support, drill and screw left side and right side together.

Cut holes in the guide thimbles at the bottom of the tarpaulin where the arch supports arms shall be inserted and insert the arms. Drill through the tarpaulin, the archsupports arms and the tubes, steer the drill through the arms. Then bolt together both arms and tubes, be careful that the tarpaulin don't become damaged or leaks.

Continue with the montage according to instructions. when the assembly is finished it should look like the picture below



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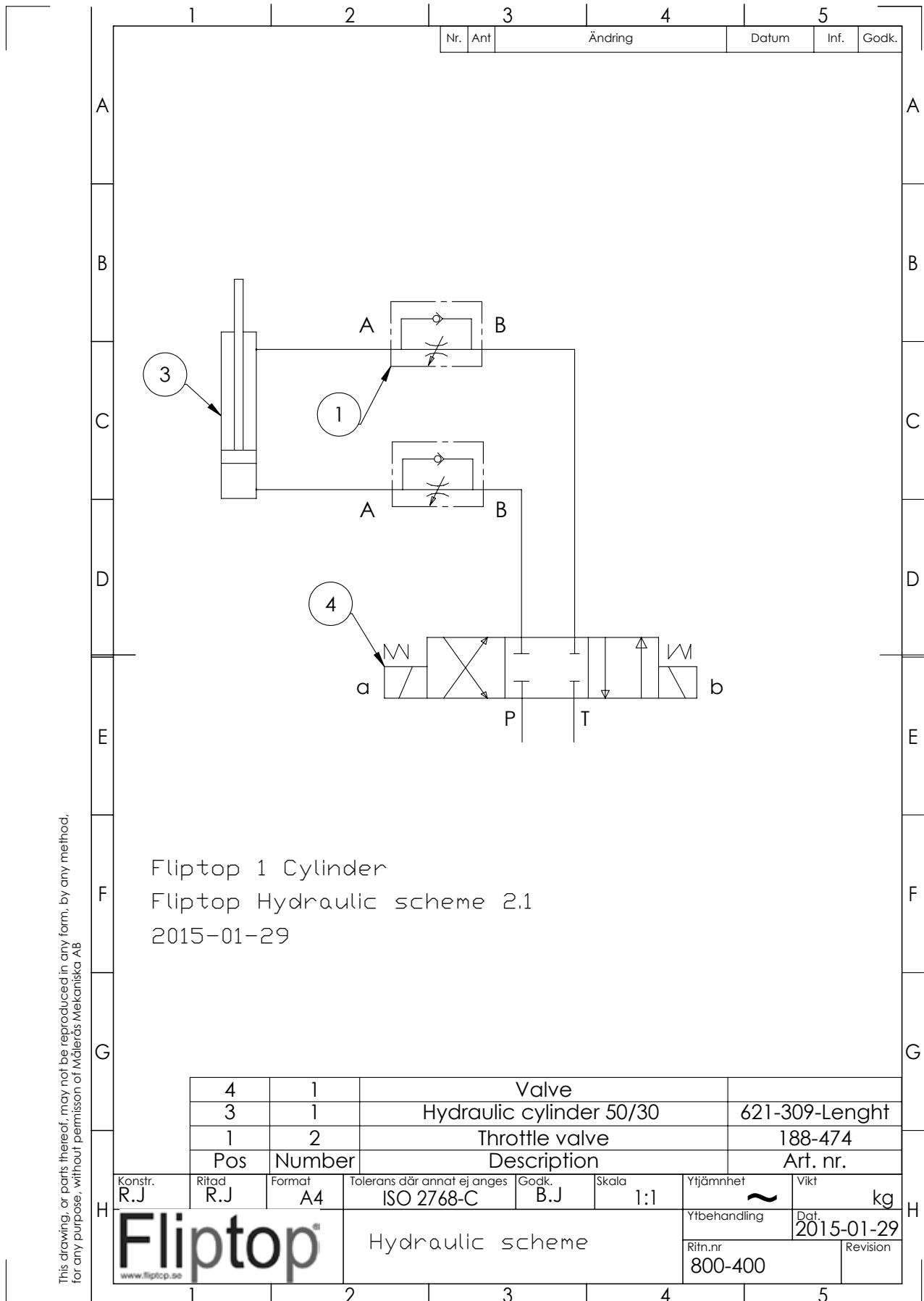
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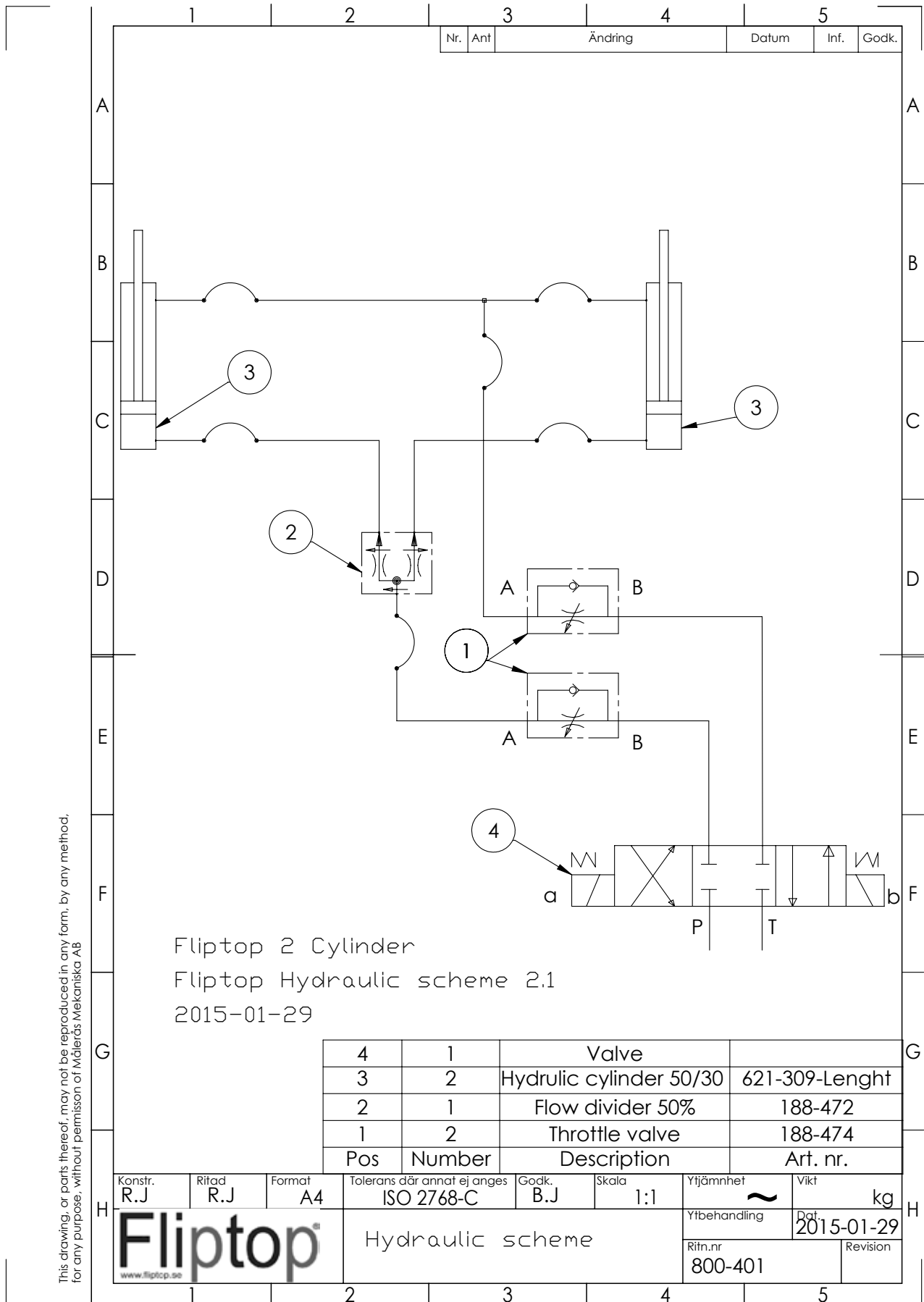
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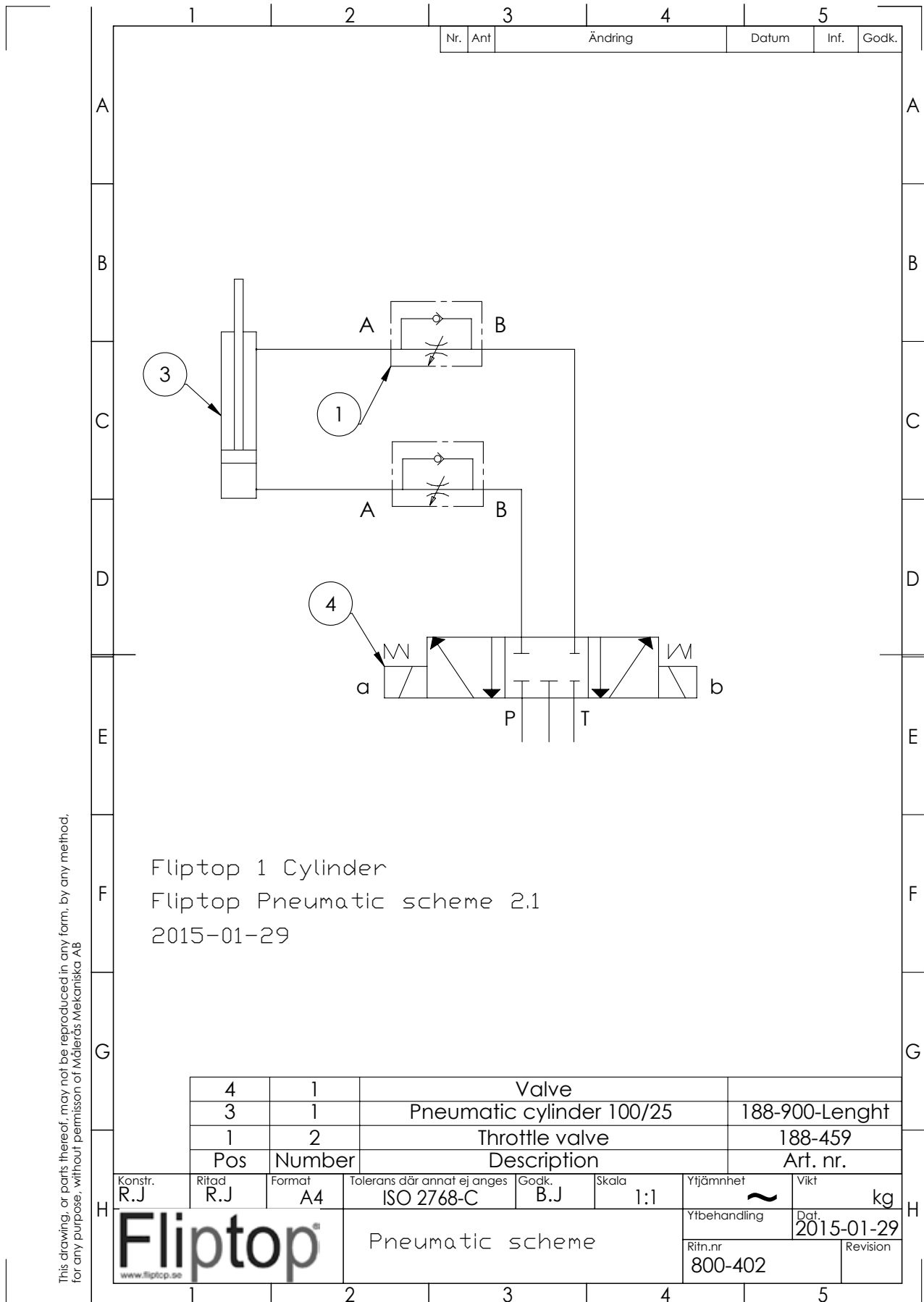
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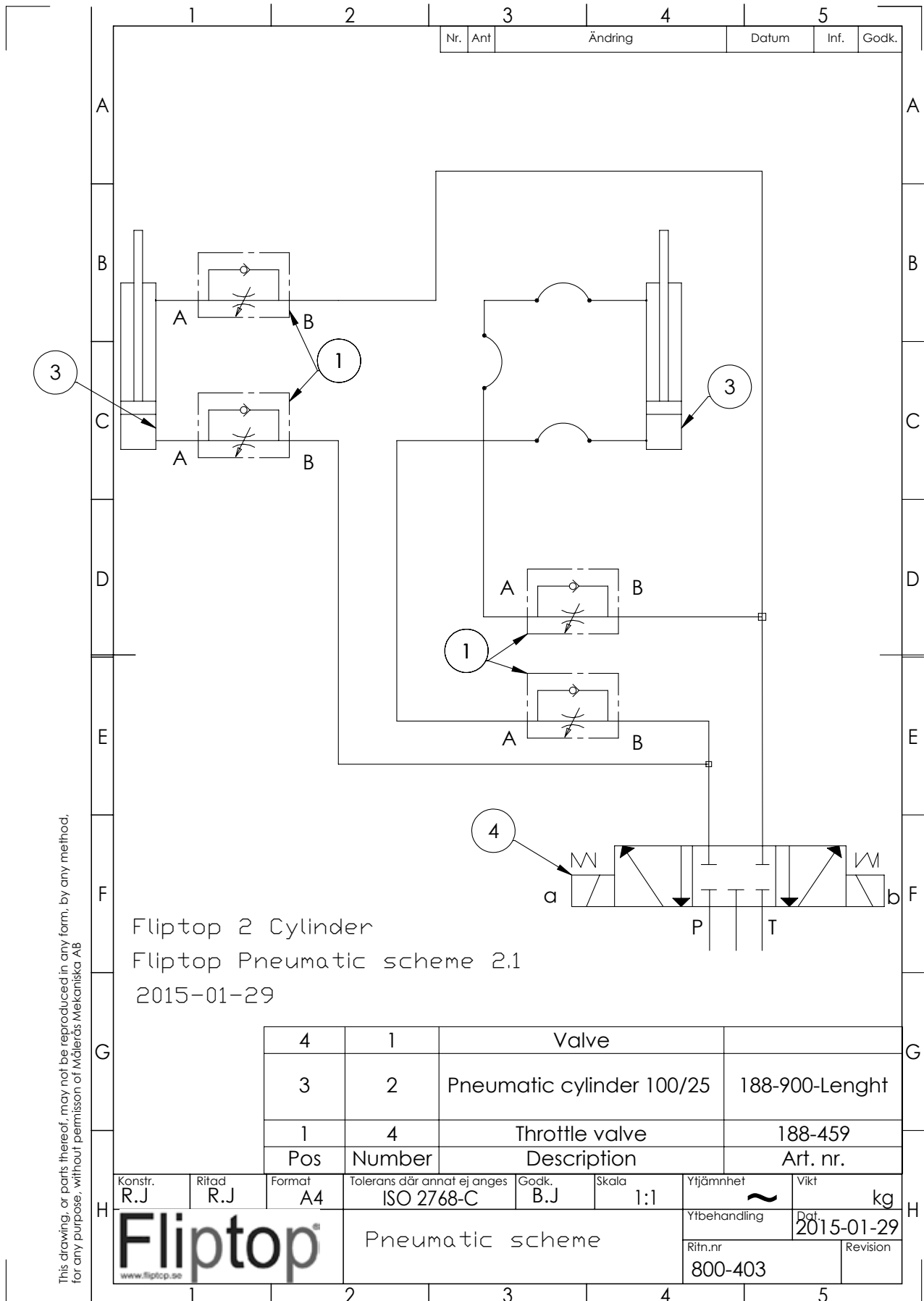
Fliptop 2 Cylinder  
 Fliptop Hydraulic scheme 2.1  
 2015-01-29

4	1	Valve	
3	2	Hydraulic cylinder 50/30	621-309-Lenght
2	1	Flow divider 50%	188-472
1	2	Throttle valve	188-474
Pos	Number	Description	Art. nr.

Konstr. R.J	Ritad R.J	Format A4	Tolerans där annat ej anges ISO 2768-C	Godk. B.J	Skala 1:1	Yfjämnhet ~	Vikt kg
<b>Fliptop</b> www.fliptop.se						Yfhandling	
						Dat. 2015-01-29	
Hydraulic scheme						Revision	
						800-401	



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# CE-DECLARATION

Manufacturer:

MÅLERÅS MEKANISKA AB  
INDUSTRIGATAN 1  
380 42 MÅLERÅS  
SWEDEN

Hereby declare that the following equipment:

Fliptop Multi  
Nr: 800-001/002/003/004/005/006

Is made in accordance with regulations of the European Machinery Directive 2006/42/EG

MÅLERÅS MEKANISKA AB  
INDUSTRIGATAN 1  
380 42 MÅLERÅS  
SWEDEN  
Tel. 0481-31444

2015-04-29

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Björn Johansson / VD