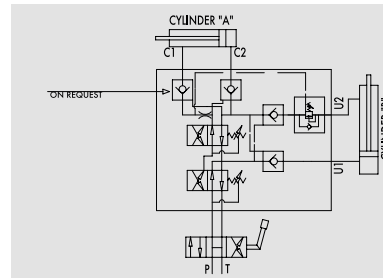


TYPE  
**VRAP SV**



HYDRAULIC DIAGRAM



## DOUBLE ACTING PLOUGH OVERTURNING VALVE BY UP MOULDBOARD LOAD SHIFTING (Patent 2013)

### USE AND OPERATION:

This valve has been designed for use on two cylinders in sequence for reversible plough to obtain the automatic alignment of load and its overturning. The rotation occurs with up mouldboards, given the possibility to equip the plough of a wheel for towing on the road. Two different passing calibrations have been studied, depending on diameter of the cylinder, which valves will be assembled on. For a smooth rotation is recommended to use a single-acting valve on the cylinder used for overturning; whether it is necessary to stop the plough at 90° (dead point), it is recommended to use the double acting one.

**Operating instructions:** first cylinder B starts lining up the load. Once it got the end stroke, cylinder A starts overturning and complete the rotation. At this point cylinder B takes back the plough in working position.

### MATERIALS AND FEATURES:

Body: zinc-plated steel

Internal parts: hardened and ground steel

Seals: BUNA N standard - Poppet type: any leakage

These valves are supplied with exchange pressure at 150 bar: according to your requirements, pressure setting can be modified by acting on the pressure regulator.

### APPLICATIONS:

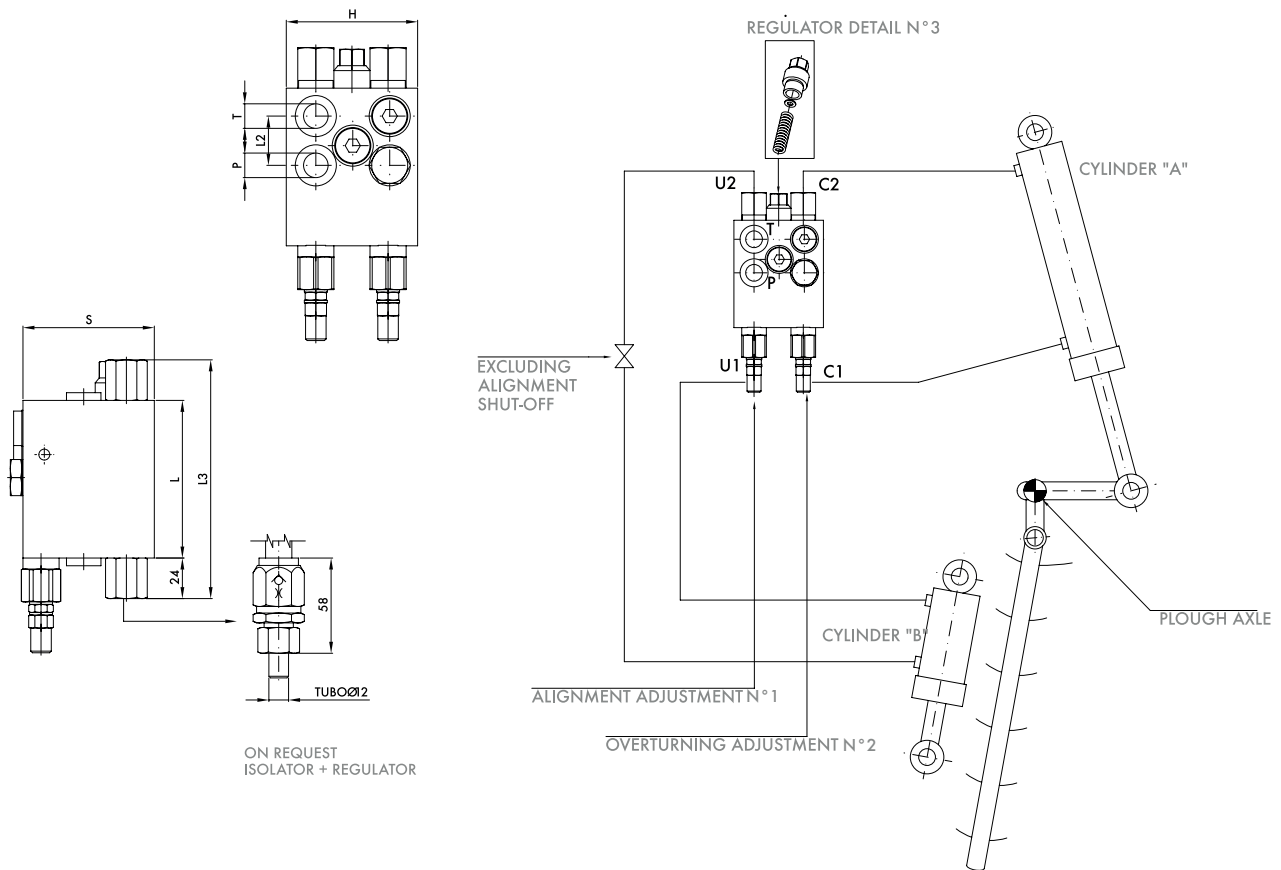
Connect C1 to the stem, C2 to the cylinder's block A, U1 to the block and U2 to the stem of the lining up cylinder's B; P and T to the machine inlet. Thanks to its shape, it can be in-line assembled on a hydraulic cylinder or directly fixed on the plough through the threaded hole made on the body.

### SETTING:

These valves are supplied already settled, therefore, should not be touched. Nevertheless, in case of needs, settings to carry out are as follow:

- **SETTING 1:** If lining up cylinder (B) comes back, screw the setting nut. If cylinder got the end stroke without starting the rotation, unscrew the nut.
- **SETTING 2:** if the valve on cylinder A does not carry out the rotation at 90°, screw the nut; if rotation stops at dead point (90°), unscrew the nut.
- **SETTING 3:** if lining up cylinder (B) starts before than cylinder A got the end stroke, unscrew the cap and put a washer 0,8 mm thick (suitable for screws with 5 mm diameter) in order to increase the pressure.

CODE	TYPE	MAX EXCHANGE PRESSURE Bar	MAX PRESSURE Bar
<b>V0339</b>	VRAP 70/80 SE SV	230	400
<b>V0340</b>	VRAP 80/100 SE SV	230	400
<b>V0345</b>	VRAP 70/80 DE SV	230	400
<b>V0346</b>	VRAP 80/100 DE SV	230	400



CODE	TYPE	C1 - C2 V1 - V2 GAS	L mm	L1 mm	L2 mm	L3 mm	H mm	S mm	WEIGHT Kg.
<b>V0339</b>	VRAP 70/80 SE SV	G 3/8"	94	58	30	142	80	80	4,760
<b>V0340</b>	VRAP 80/100 SE SV	G 3/8"	94	58	30	142	80	80	4,760
<b>V0345</b>	VRAP 70/80 DE SV	G 3/8"	94	58	30	176	80	80	4,800
<b>V0346</b>	VRAP 80/100 DE SV	G 3/8"	94	58	30	176	80	80	4,800