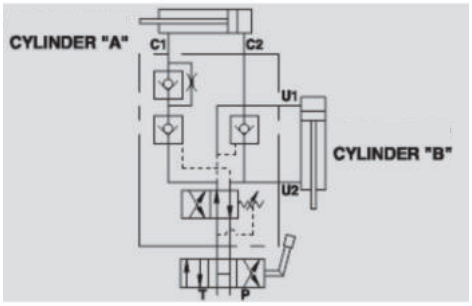
DOUBLE ACTING PLOUGH OVERTURNING VALVE WITH ALIGNMENT

VRAP SS

Maximum Exhange Pressure 250 Bar
Maximum Pressure 400 Bar

Description & Operation

This valve has been designed for use on cylinders for reversible ploughs to obtain the automatic oil flow reversal, and therefore the reversal of the hydraulic cylinder which rotates the plough. It has been designed to control two cylinders on ploughs with the rotation of the frame upwards (see scheme).
Operation: the two cylinders work in parallel. First cylinder B starts lining up the load (as it requires less pressure). Before the end of stroke, cylinder A starts the overturning. Once the dead head point (90°) has passed, the cylinders A and B restart together taking the plugh back to its working position. Connect C1 to the rod side, C2 to the head side of the overturning cylinder A, U1 to the head side and U2 to the rod side of the aligning cylinder B. P and T to the machine's pressure supply. Thanks to its shape, it can be assembled in-line on the hydraulic cylinder or directly fixed onto the plough by the threaded hole in the valve body.



Hydraulic Symbol

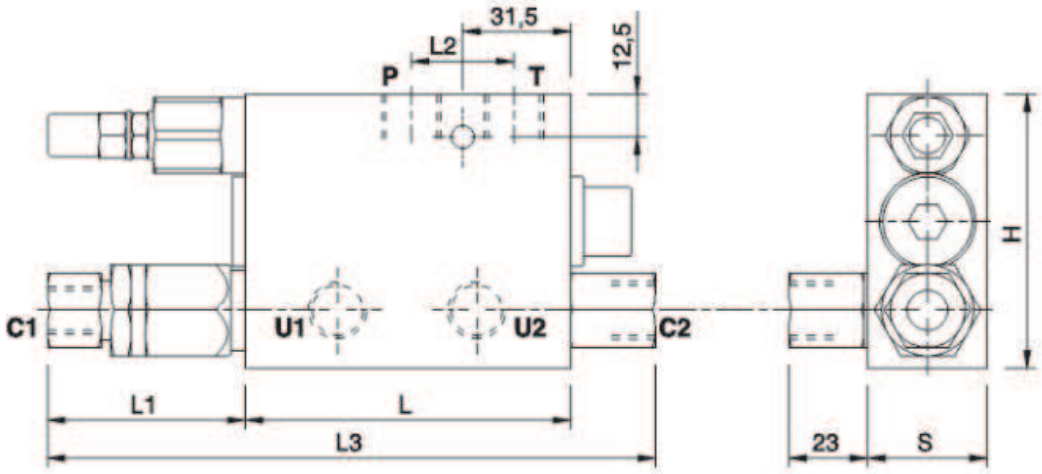
Technical Data

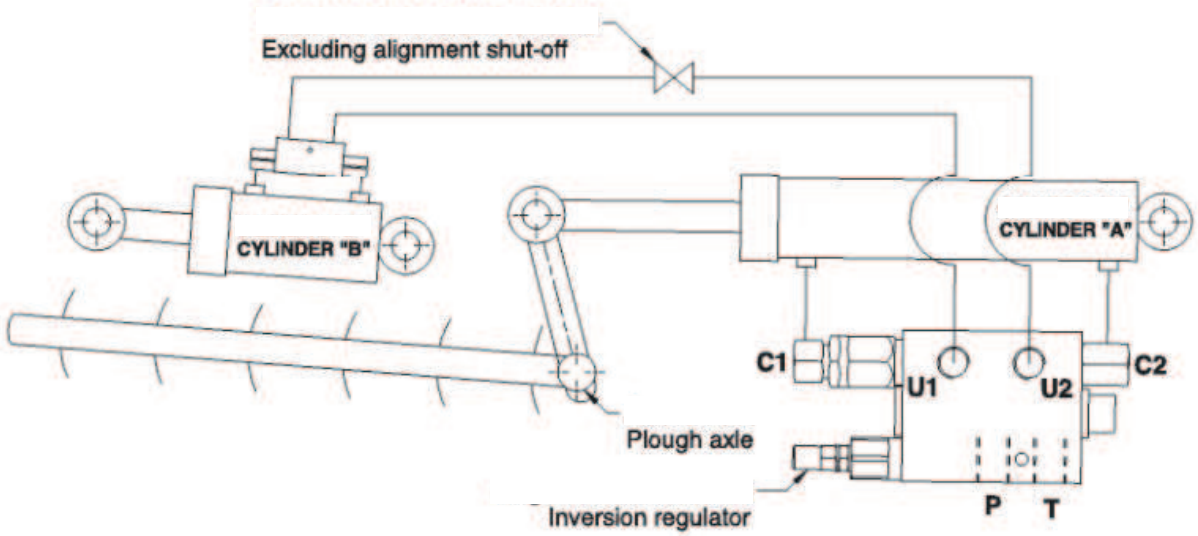
Maximum Exhange Pressure	250 Bar
Maximum Operating Pressure	400 Bar
body Material	Steel
Internal parts	Hardened and Ground steel
External Component treatment	Zn/Fe - standard (96h) / Zn/Ni (720h)
Oil Temperature	50 Deg. C
Fluids	Mineral based or synthetics with lubricating properties
Viscosity	30 cSt
Standard Sealing	NBR-Buna N
Filteration	20/18/15 ISO 4406 (Max. Filteration admitted)
Orientation / Mounting	Inline
Weight	See Ordering details

Specifications

Type	Max Exchange Pressure	Max Pressure
	Bar	Bar
VRAP 80/100 SS	250	400
VRAP 100/110 SS VMP	250	400

Dimensional Drawing





Ordering Details

Code	Type	C2 P-T	C1	L	L1	L2	L3	H	S	Weight
		SAE	mm	mm	mm	mm	mm	mm	mm	Kg
R-V0330	VRAP 80/100 SS	G 3/8"	Ø12	94	58	30	176	80	35	2.230
R-V0331	VRAP 100/110 SS VMP	G 3/8"	Ø12	94	58	30	176	80	35	2.230