

液压翻转犁用液压部件

Hydraulic reversible plough parts

阀 块

Valves



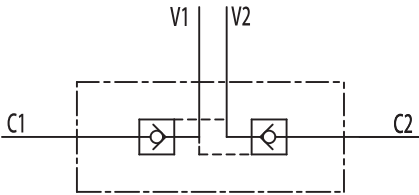
农业机械零配件
SPARE PARTS & ACCESSORIES FOR AGRICULTURAL MACHINE



DOUBLE PILOT OPERATED CHECK VALVES/双液控单向阀

款式/TYPE
VBPDE

工作原理图/HYDRAULIC DIAGRAM



使用和操作:
液控单向阀可用于双向阻止油缸。一个方向是自由流通，而反方向则被阻止，直到先导压力被施加。

材料和特性:
阀体: 镀锌钢
阀芯: 淬硬磨光钢
密封件: 标准丁腈橡胶
提升方式: 锥形驱动

应用:
连接V1和V2到压力流，连接C1和C2到驱动器

可选:
• 无密封的先导活塞
• 1 巴压力弹簧
• 8 巴压力弹簧

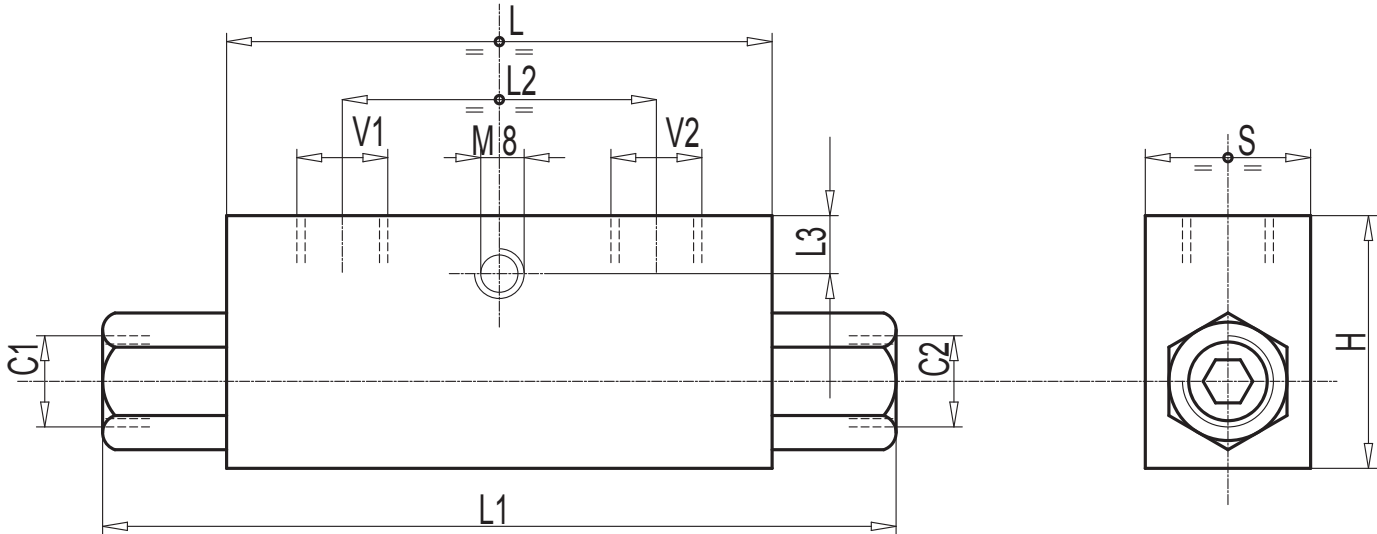
USE AND OPERATION:
Pilot check valves are used to block the cylinder in both directions. Flow is free in one direction and blocked in the reverse direction until pilot pressure is applied.

MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard
Poppet type: any leakage.

APPLICATIONS:
Connect V1 and V2 to the pressure flow and C1 and C2 to the actuator.

ON REQUEST
• without seal on pilot piston
• 1 Bar spring
• 8 Bar spring

型号 CODE	款式 TYPE	控制比 PILOT RATIO	最大流量 MAX FLOW(Lt/min)	最大压力 MAX PRESSURE(Bar)	开启压力 CRACKING PRESSURE(Bar)
05594	VBPDE ¼" L	1 : 5,5	20	350	4
12458	VBPDE ⅜" L	1 : 5,5	35	350	3
04211	VBPDE ½" L	1 : 5	50	350	6
E000000881	VBPDE ⅝"	1 : 5	45	350	8
ASH00140	VBPDE 18	1 : 5	45	350	3,5
ASH00141	VBPDE ½"	1 : 4	70	350	3,5
E000015974	VBPDE ¾"	1 : 4	100	300	2

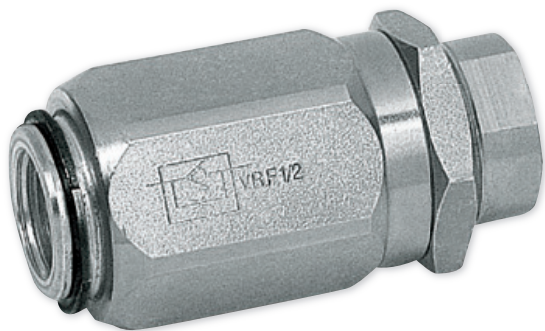
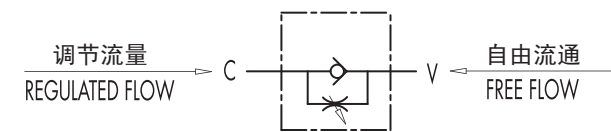


型号 CODE	款式 TYPE	V1 - V2 C1 - C2 GAS - MET	L mm	L1 mm	L2 mm	L3 mm	H mm	S mm	重量 WEIGHT Kg
05594	VBPDE ¼" L	G ¼"	64	113	36	8	40	30	0,636
12458	VBPDE ⅜" L	G ⅜"	80	128	38	8	40	30	0,736
04211	VBPDE ½" L	G ½"	90	142	45	8	45	35	1,042
E000000881	VBPDE ⅝"	G ⅝"	90	156	45	8	45	35	1,174
ASH00140	VBPDE 18	M18X1,5	90	156	45	8	45	35	1,156
ASH00141	VBPDE ½"	G ½"	80	144	40	18	60	35	1,284
E000015974	VBPDE ¾"	G ¾"	100	192	46	8	60	40	1,916

BARREL FLOW CONTROL VALVES WITH CHECK/流量控制阀

款式/TYPE
VRF

工作原理图/HYDRAULIC DIAGRAM



使用和操作:
该阀用于调节驱动器在一个方向上的流速；而在反方向上是自由流通。由于未提供压力补偿，流量调节取决于压力和液压油的粘度。

材料和特性:
阀体: 镀锌钢
阀芯: 淬硬磨光钢
密封件: 标准丁腈橡胶
气密性: 直径组合

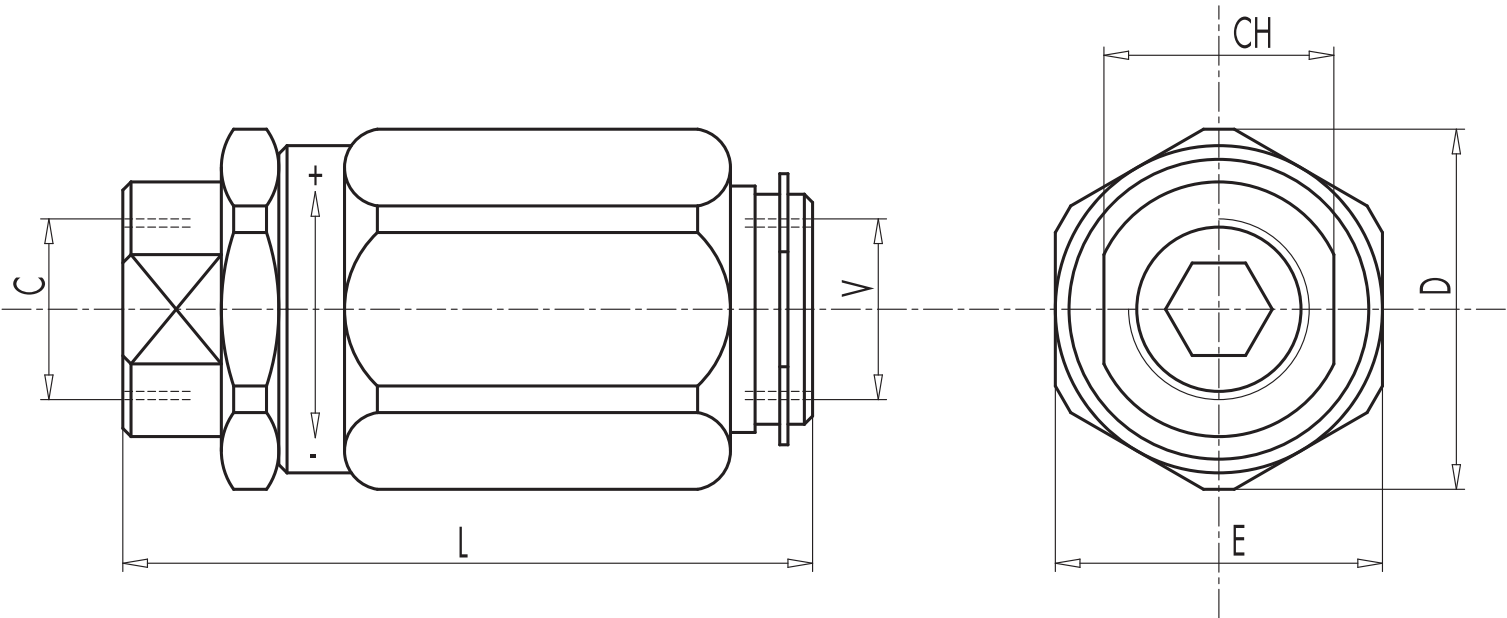
应用:
连接V到压力流，连接C到驱动器进行设置。流量可以在从C到V的通路中调节，而在反方向上是自由流通。当应用于带双液控单向阀的驱动器时，该阀应安装在驱动器和双液控单向阀之间。流量可通过旋转接头调节：按顺时针方向旋转流量增加，反之则降低。一旦流量被设定，需锁紧螺母，这样即使在阀体振动时也可保持所需的设定。

USE AND OPERATION:
This valve is used to adjust flow speed of actuators in one direction; flow is free in the reverse one. As pressure compensation is not provided, flow adjustment depends on pressure and oil viscosity.

MATERIALS AND FEATURES:
Body: zinc-plated steel
Internal parts: hardened and ground steel
Seal: BUNA N standard
Tightness: by diameter combination. Minor leakage with closed valve

APPLICATIONS:
Connect V to the pressure flow and C to the actuator to set. The flow is adjusted from C to V and free in the reverse direction. When used on actuator with double pilot check valve, VRF has to be mounted between the actuator and the double pilot check valve.
Flow adjustment is made by rotating the coupling: by clockwise rotation flow increases and vice versa. Once the flow has been set, lock the nut in order to keep the desired settings even in case of vibrations.

型号 CODE	款式 TYPE	最大流量 MAX FLOW(Lt./min)	最大压力 MAX PRESSURE(Bar)	开启压力 CRACKING PRESSURE(Bar)
05292	VRF ¼"	20	300	0,5
04215	VRF ⅜"	45	300	0,5
04216	VRF ½"	70	300	0,5
E000022268	VRF ¾"	110	250	0,5
E000011443	VRF 1"	160	250	0,5

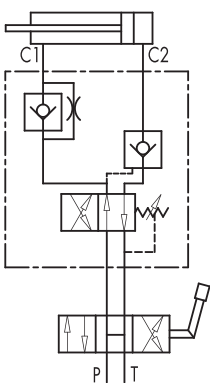


型号 CODE	款式 TYPE	V - C GAS	L mm	E mm	CH mm	D mm	重量 WEIGHT Kg
05292	VRF ¼"	G ¼"	66,5	30	19	34	0,274
04215	VRF ⅜"	G ⅜"	73	32	24	36	0,330
04216	VRF ½"	G ½"	80	38	27	42	0,484
E000022268	VRF ¾"	G ¾"	95	46	32	51	0,824
E000011443	VRF 1"	G 1"	109	55	41	60	1,314

SINGLE ACTING PLOUGH OVERTURNING VALVES/单作用翻转犁用阀块

款式/TYPE
VRA SE

工作原理图/HYDRAULIC DIAGRAM



使用和操作:

该阀块通过在翻转犁油缸上的应用，可实现液压油的自动回流，从而保证液压油缸的反向运动能够使犁翻转。该阀块配有单向阀，既保证了缸体一侧的安全性，也保证了靠在犁体机械锁上的油口一侧的安全性。该阀块可安装在轻型、平衡翻转犁上，推荐适用的油缸内径有40/50mm和60/80mm。

材料和特性:

阀体: 镀锌钢
阀芯: 淬硬磨光钢
密封件: 标准丁腈橡胶
提升方式: 锥形驱动

阀块原厂设定交换压力值为140Bar: 根据需求，可通过压力调节器来调节压力设定值。

应用:

连接C1与油缸的油口，连接C2与油缸的缸体，连接P和T到机具输入端口。由于其外形的特殊设计，阀块既可以安装在液压油缸上，也可以通过阀体上的螺纹孔直接固定于犁体上。

USE AND OPERATION:

This valve has been realised for use on cylinders for reversible plough to obtain the automatic oil backflow and therefore the reversal of the motion of the hydraulic cylinder that makes the plough rotating. It is provided with a single pilot check valve which guarantees safety just on the block side, whilst on the stem side it must be leaned on the plough mechanical locks. Assembly on balanced and light plough with internal diameters 40/50 millimetres and 60/80 millimetres is recommended.

MATERIALS AND FEATURES:

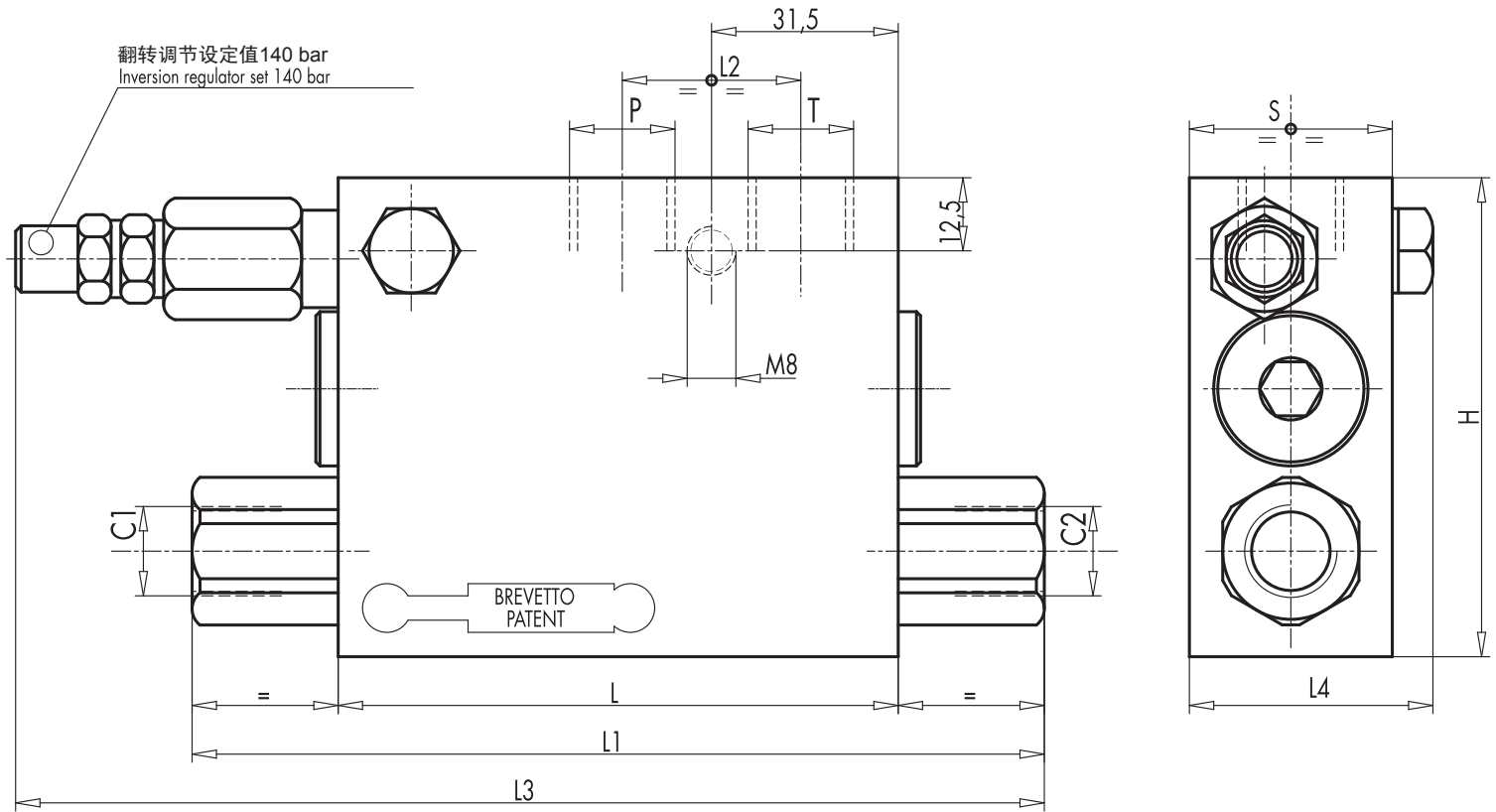
Body: zinc-plated steel
Internal parts: hardened and ground steel
Seals: BUNA N standard
Poppet type: any leakage

These valves are supplied with exchange pressure at 140 Bar: according to your requirements, pressure setting can be modified by acting on the pressure regulator.

APPLICATIONS:

Connect C1 to the cylinder's stem, C2 to the block, 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.

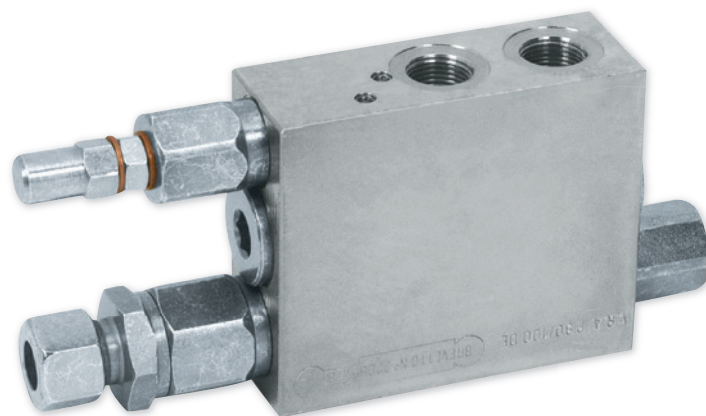
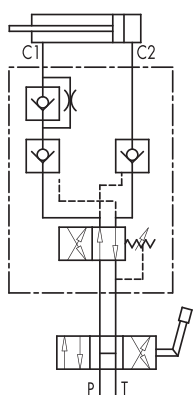
型号 CODE	款式 TYPE	最大交换压力 MAX EXCHANGE PRESSURE(Bar)	最大压力 MAX PRESSURE(Bar)
ASH00142	VRA 40/50 SE	200	400
16087	VRA 60/80 SE	200	400



型号 CODE	款式 TYPE	C1 - C2 P - T GAS	L mm	L1 mm	L2 mm	L3 mm	L4 mm	H mm	S mm	重量 WEIGHT Kg
ASH00142	VRA 40/50 SE	G 3/8"	94	142	30	177	42	80	35	1,990
16087	VRA 60/80 SE	G 3/8"	94	142	30	177	42	80	35	1,990

款式/TYPE
VRAP DE

工作原理图/HYDRAULIC DIAGRAM



使用和操作:

该阀块通过在翻转犁油缸上的应用,可实现液压油的自动回流,从而保证液压油缸的反向运动能够使犁翻转。该阀块配有双液控单向阀,从而保证高度安全性,以及在任意位置推进和阻止油缸的运行。

活塞的反向运动是在犁的止点上,通过差动式溢流阀实现的,同时产生更大的动力和速度。该阀块可安装在重型、非平衡翻转型上,适用的油缸内径有:40/50、60/80、80/100、100/110、110/130mm。

材料和特性:

阀体: 镀锌钢

阀芯: 淬硬磨光钢

密封件: 标准丁腈橡胶

提升方式: 锥形驱动

阀块原厂设定交换压力值为140Bar:

根据需求，可通过压力调节器来调节压力设定值。

应用:

连接C1与油缸的油口，连接C2与油缸的缸体，连接P和T到机具输入端口。由于其外形的特殊设计，阀块既可以安装在液压油缸上，也可以通过阀体上的螺纹孔直接固定于犁体上。

USE AND OPERATION:

This valve has been realised for use on cylinders for reversible plough to obtain the automatic oil backflow and therefore the motion reversal of the hydraulic cylinder that makes the plough rotating. It is provided with a double pilot check valve which guarantees high safety and enables to put and block the cylinder in any position.

The motion reversal of the piston is made through a differential type relief valve exactly in the dead point of the plough, generating more power and speed. It can be assembled on heavy and unbalanced plough with the following internal diameters: 40/50, 60/80, 80/100, 100/110, 110/130 mm.

MATERIALS AND FEATURES:

Body: zinc-plated steel

Internal parts: hardened and ground steel

Seals: BUNA N standard

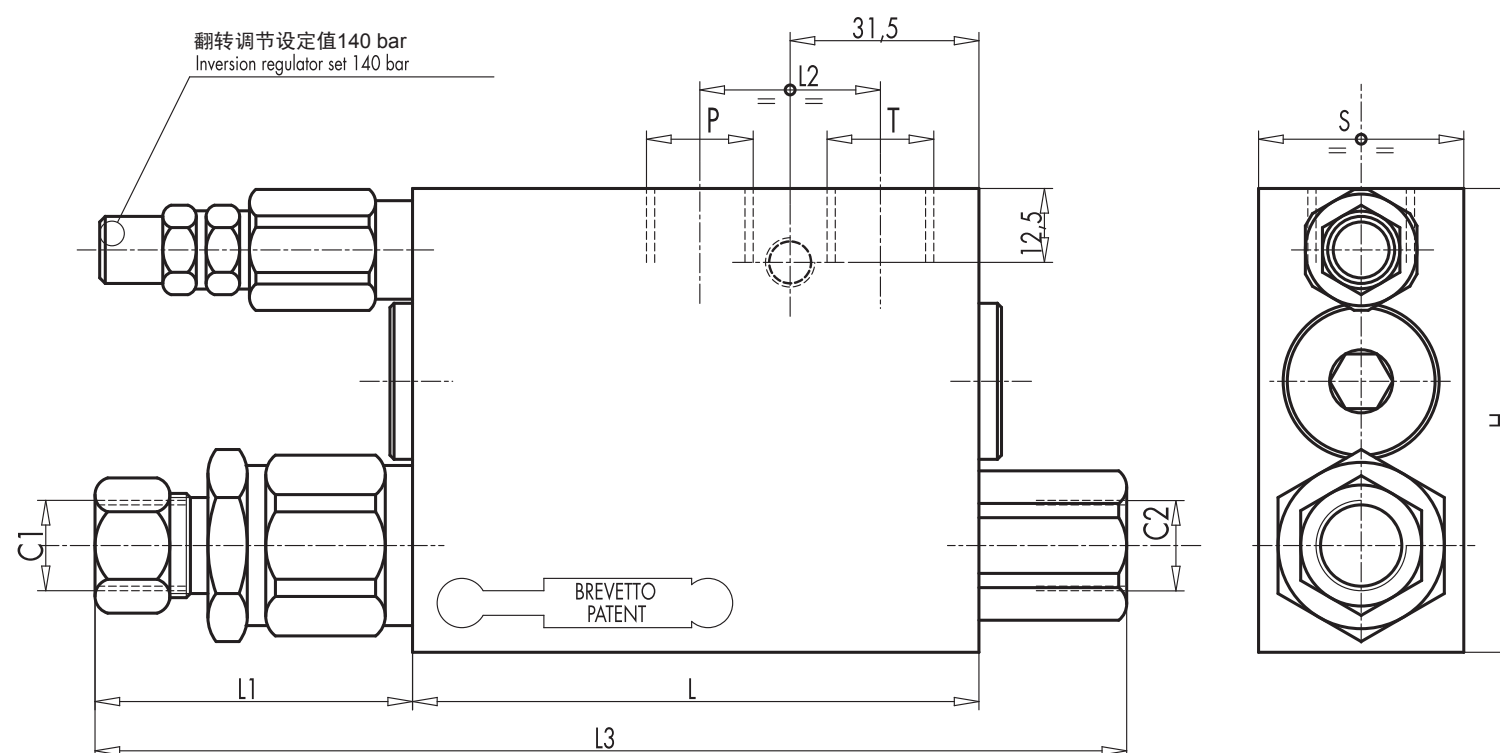
Poppet type: any leakage

These valves are supplied with exchange pressure at 140 Bar: according to your requirements, pressure setting can be modified by acting on the pressure regulator.

APPLICATIONS:

Connect C1 to the cylinder's stem, C2 to the block, 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.

型号 CODE	款式 TYPE	最大交换压力 MAX EXCHANGE PRESSURE(Bar)	最大压力 MAX PRESSURE(Bar)
E000022761	VRAP 40/50 DE	250	400
04659	VRAP 60/80 DE	250	400
04660	VRAP 80/100 DE	250	400
E000003516	VRAP 100/110 DE	250	400
E000002186	VRAP 110/130 DE	250	400

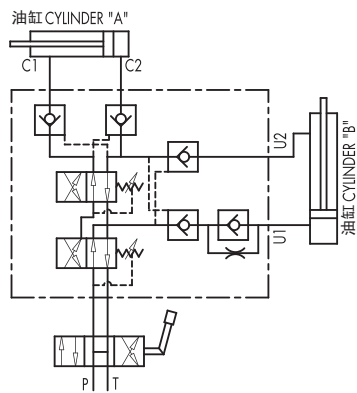


型号 CODE	款式 TYPE	C2 P-T GAS	C1 mm	L mm	L1 mm	L2 mm	L3 mm	H mm	S mm	重量 WEIGHT Kg
E000022761	VRAP 40/50 DE	G ⅝"	Ø12	94	58	30	176	80	35	2,13
04659	VRAP 60/80 DE	G ⅝"	Ø12	94	58	30	176	80	35	2,14
04660	VRAP 80/100 DE	G ⅝"	Ø12	94	58	30	176	80	35	2,14
E000003516	VRAP 100/110 DE	G ⅝"	Ø12	94	58	30	176	80	35	2,14
E000002186	VRAP 110/130 DE	G ⅝"	Ø12	94	58	30	176	80	35	2,13

DOUBLE ACTING PLOUGH OVERTURNING VALVE
BY UP MOULDBOARD LOAD SHIFTING/双作用翻转犁用阀块

款式/TYPE
VRAP SV

工作原理图/HYDRAULIC DIAGRAM



使用和操作:

该阀块通过在翻转犁油缸上的应用, 可实现液压油的自动回流, 从而保证液压油缸的反向运动能够使犁翻转。该阀块专门用于带旋转负载的双油缸的运动 (参见原理图)。
操作说明:工作顺序: 首先油缸B开始逐步负载; 当油缸B运行到缸底, 油缸A开始翻转。当运行到止点时, 油缸A和油缸B同时开始工作, 油缸B的延时速度与油缸A相关。

材料和特性:

阀体: 镀锌钢
阀芯: 淬硬磨光钢
密封件: 标准丁腈橡胶
提升方式: 锥形驱动

阀块原厂设定交换压力值为140Bar;
根据需求, 可通过压力调节器来调节压力设定值。

应用:

连接C1与油缸A的油口, 连接C2与油缸A的缸体, 连接U1与油缸B的缸体, 连接U2与油缸B的油口; 连接P和T到机具输入端口。由于其外形的特殊设计, 阀块既可以安装在液压油缸上, 也可以通过阀体上的螺纹孔直接固定于犁体上。

USE AND OPERATION:

This valve has been realised for use on cylinders for reversible plough to obtain the automatic oil backflow and therefore the motion reversal of the hydraulic cylinder that makes the plough rotating. It has been studied to set in action 2 cylinders with advantageous rotation load(see scheme).
Operating instructions: sequence working: first cylinder B starts lining up the load; once it got the end stroke, cylinder A starts overturning. When this gets the dead point, A and B start working at the same time, B with a delayed speed in relation to A.

MATERIALS AND FEATURES:

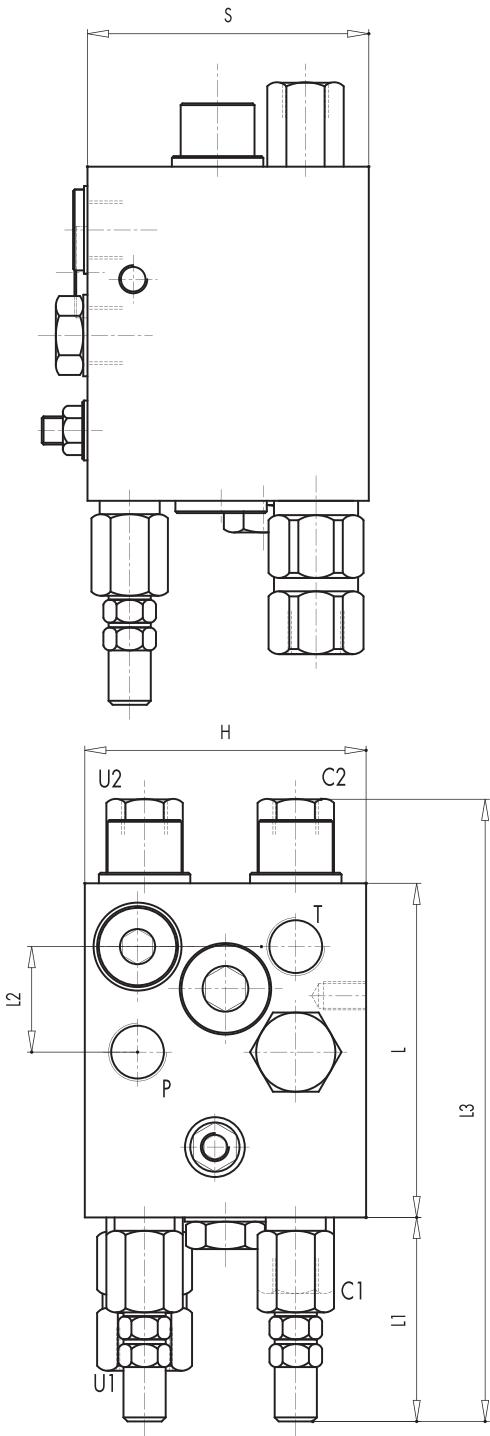
Body: zinc-plated steel
Internal parts: hardened and ground steel
Seals: BUNA N standard
Poppet type: any leakage

These valves are supplied with exchange pressure at 140 Bar; according to your requirements, pressure setting can be modified by acting on the pressure regulator.

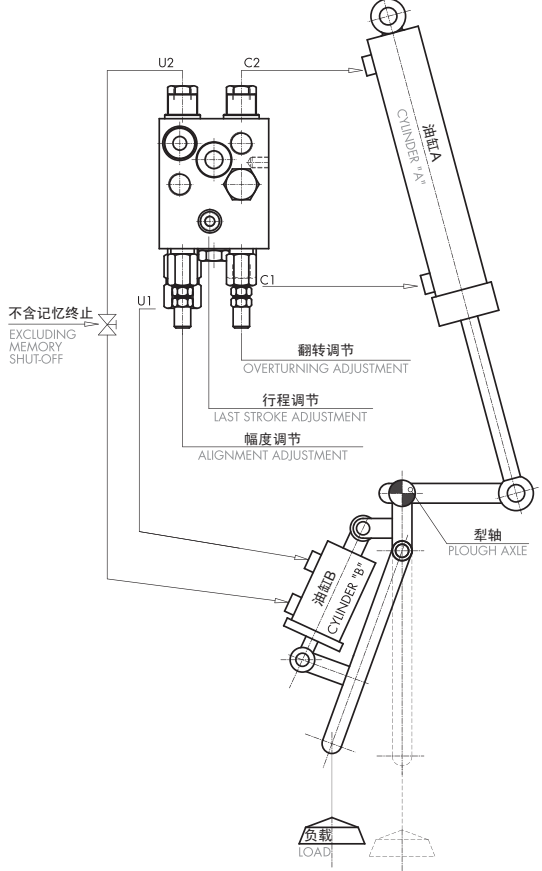
APPLICATIONS:

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.

型号 CODE	款式 TYPE	最大交换压力 MAX EXCHANGE PRESSURE(Bar)	最大压力 MAX PRESSURE(Bar)
E000003045	VRAP 80/100 SV TN	230	400



安装图
MOUNTING DIAGRAM



型号 CODE	款式 TYPE	C1 - C2 V1 - V2 G 1/2"	L mm	L1 mm	L2 mm	L3 mm	H mm	S mm	重量 WEIGHT Kg
E000003045	VRAP 80/100 SV TN	G 1/2"	94	58	30	176	80	80	4,76



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