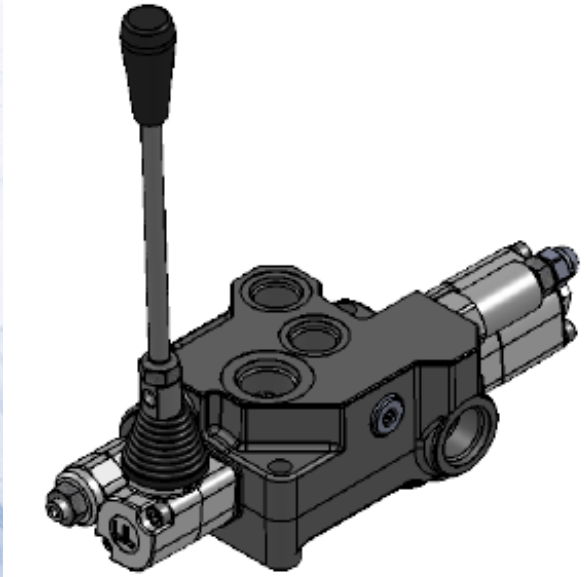
INSTRUCTIONS MANUAL

BM70/1

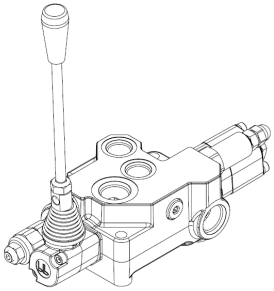
AUTO-SPEED VALVE



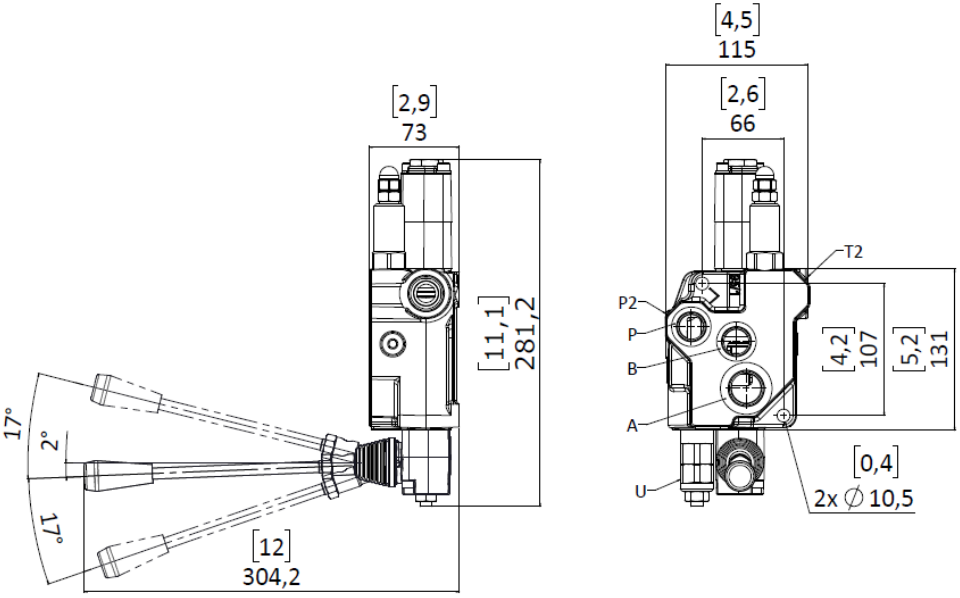
upgrade your hydraulic control

Installation Dimensions

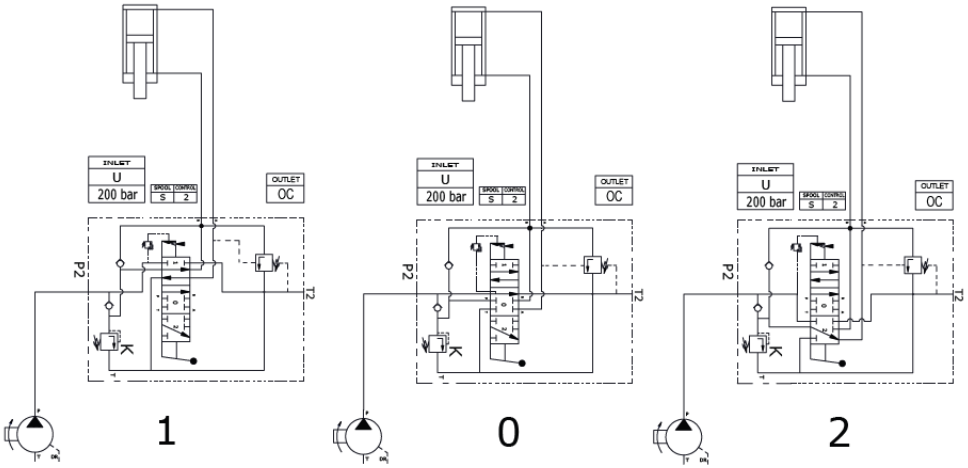
Used in both horizontal and vertical wood splitters machines. It is characterized by the function of quick approach to the log with maximum flow and pressure <1015 PSI and then automatic switch to the breaking of the log with low flow and maximum pressure. Available with and without kick out function.

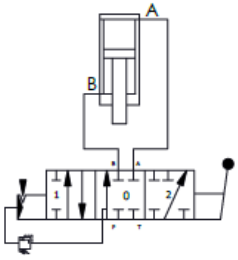


ITEM **93811063 – 9399684** BM70/1 ZB FU(200) /MO S2KOB(130)/ AUTO-SPEED



measurement unit	[inch]
	millimeters





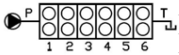
1 DETENT
0 NEUTRAL
2 SPRING RETURN

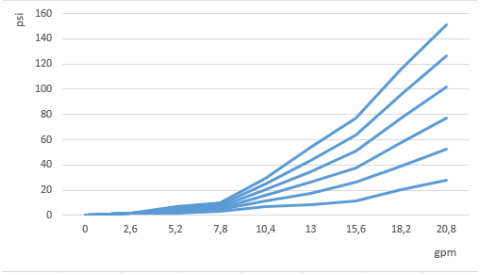
BM70/1 AUTO-SPEED TECHNICAL SPECIFICATIONS	
Work Flow / Max Flow	18,5 GPM / 21,5 GPM
Relief valve setting	2,900 PSI
Max pressure on ports	3,300 PSI
Max pressure on tank line	1,110 PSI
A	12 ORB
B	10 ORB
P	10 ORB
P2 – T2	12 ORB

BM70/1 AUTO-SPEED MAIN FEATURES
Zinc plating protects against corrosion and rust
Quick approach to the log with maximum flow and pressure <1015 PSI. Automatic switch to the breaking with low flow and maximum pressure
Available with and without kick out function

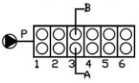
PRESSURE DROP

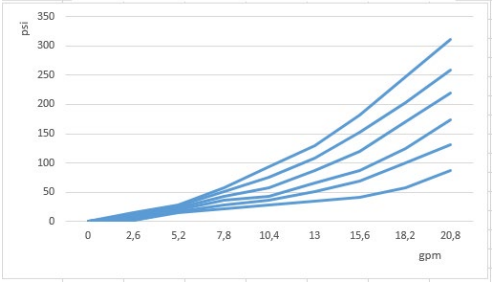
P→T



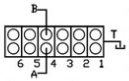


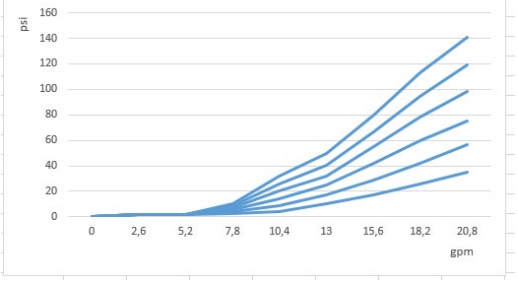
P→A - B



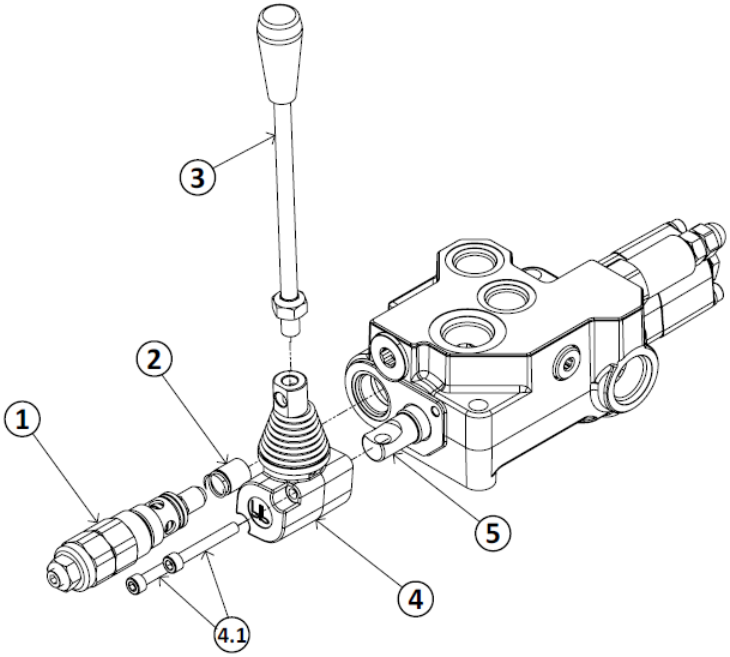


A - B→T





PARTS LIST:



BM70 AUTO-SPEED SPARE PARTS

Nº Parts	Parts	N° Sub-part	Sub part
1	Relief Valve		
2	Check valve		
3	Kit handle		
4	Handle cap kit	4	Handle cap
		4.1	Screw
5	Spool appendix		

HOW TO CHANGE RELIEF VALVE

Step 1. Remove the Relief Valve (pos.1) whit a 22mm wrench.
Step 2. Take out the loaf Check Valve (pos.2) and place it on the new Relief Valve
Step 3. Screw the New Relief Valve into the Relief Valve port and using a 22mm wrench tighten to 29.5 ft. lbs.

SETTING THE RELIEF VALVE

An adjustable relief valve is standard on all monoblock directional valves. Standard factory setting is 2,100 psi.
The relief pressure is adjusted by releasing the Nut and turning the Adjusting Screw with a 4 mm hex key wrench. Turning the Adjusting Screw clockwise will increase the pressure and counter-clockwise will decrease the pressure (a pressure gauge must be installed in the inlet line whenever the relief pressure is adjusted). Adjustable pressure range is 1,300 psi to 3,600 psi. Do not backout adjusting screw to the point it falls out.

CHANGING THE HANDLE CAP :

Step 1. Remove the Handle (pos.3) from the Handel Cap (pos.4).
Step 2. Using a 5mm hex key remove the two screws (pos.4.1) and remove the Handle Cap (pos.4).
Step 3. Install the new Handle Cap (pos.4) making sure that the round part of the pin inside the Handle Cap goes into the hole of the spool appendix (Pos.5).
Step 4. Using a 5mm hex key screw the two screws (pos.4.1) with a tightness to 6.3 ft lbs

WARNING

- All hydraulic valves must be properly installed into the hydraulic system to prevent personal injury and/or property damage. Further, the improper servicing of a valve may result in personal injury and/or property damage. Please read and understand all catalogue and service information before starting, as with all mechanical work the proper tools, knowledge, and safety equipment are required, always wear safety glasses.
- Make sure all pressure has been relieved in the hydraulic lines before installing or servicing a hydraulic valve.
- Escaping hydraulic fluid under pressure can have sufficient force to penetrate skin, causing serious personal injury. Do not use your hand to check for hydraulic leaks.
- Before installing or servicing a hydraulic component make sure all weight has been removed from the cylinders or motors before disconnecting hydraulic lines.
- Disconnecting the hydraulic lines while the cylinder or motor is under load may result in the unexpected rapid movement of machine resulting in serious personal injury.
- Do not exceed the operating specifications for pressure, flow or temperature, all hydraulic systems require a means to limit the maximum pressure. This requires either a pressure relief valve in the system or a pump that has pressure compensation.
- Overpressure may cause sudden and unexpected failure of a component in the hydraulic system resulting in serious personal injury, always use a gauge when adjusting a relief valve.

Quality management system certified
according to

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