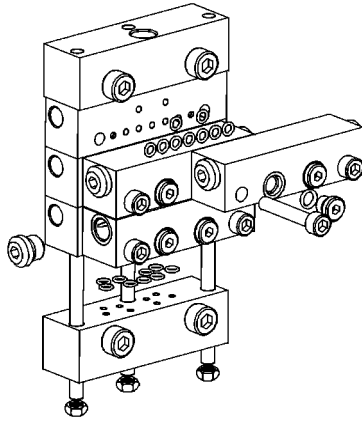


SPECIFICATIONS:

Max. Operating Pressure	Seal Material	Lube Inlet	Lube Outlets	Indicator Ports	Mounting Screw Torque	Tie Rod Nut Torque
6000 Psi	Viton*	1/4 NPTF	1/8 NPTF	5/16"-24 UNF	80 in-lb	70 in-lb



DESCRIPTION

MC² Divider Valves are comprised of three to eight valve blocks fastened to a segmented baseplate with o-rings between the valve blocks and the baseplate and between the baseplate segments. These divider valves are used in a single line, progressive lubrication system and can be used for dispensing oil or grease. MC valves and baseplate segments are supplied with o-rings.

Refer to the Modular Lube Planning Manual for system design information and an in-depth explanation of operation. An in-line filter should be installed between the pump and divider valves. Check valves should be installed at the inlets of all lube points. Refer to Service Page M50 Page 1 for check valve information.

Valve blocks containing metering pistons discharge a predetermined amount of lubricant with each cycle. Valve blocks can be single or twin and can be externally singled or crossported with Model 87905 Single/Crossport Bar. Outlets not to be used when singling or crossporting must be plugged. Use 68645 pipe plug.

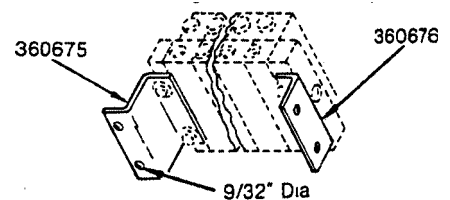
An 874000 By-Pass Block can be used in any position on the baseplate. The use of a by-pass block allows the addition or deletion of lubrication points without disturbing existing piping. Both outlets under a by-pass block must be plugged.

The valve blocks and by-pass blocks are fastened to a baseplate mounted on the machine to be lubricated. The baseplate contains the divider valve's inlet and outlet connections, interrelated passageways and built-in check valves. All piping of lubricant to and from the divider valve is connected to the baseplate.

The baseplate consists of one inlet block, three to eight intermediate blocks, one end block and three tie rods. Gasket plate seals are included with the baseplate segments. The valve block capacity of each baseplate is dependent upon the number of intermediate blocks in the baseplate. There must be a minimum of three working valves on each valve and baseplate assembly.

Optional cycle indicator pins provide positive identification of system operation. The indicator pin is an extension of the piston in a valve block and will cycle back and forth as the piston moves.

Optional mounting brackets are shown below for mounting the valve assembly.



ASSEMBLY INSTRUCTIONS

NOTE: The center tie rod in the baseplate is offset so that the intermediate blocks cannot be assembled backwards. If excessive force is encountered during assembly, make sure block is not backwards.

1. Screw three tie rods into inlet block until ends are flush with surface of block.
2. Verify all o-rings are seated properly.
3. Slide an intermediate block onto the tie rods verifying o-ring placement until the last intermediate block is in place.
4. Slide end block onto tie rods.
5. Lay baseplate assembly on flat surface and torque nuts to 80 in-lbs.
6. Mount divider valves with o-rings onto baseplate and torque mounting screws to 80 in-lbs.

MC² VALVE BLOCKS

	Single	Tw in	Cycle indicator Pin				Single (1 Outlet) Discharge/Outlet	Tw in (2 Outlets) Discharge/Outlet
			Single-Right	Tw in-Right	Single-Left	Tw in-Left		
MC ² -6	875061	875062	-	-	-	-	.012cu. in.	.006 cu. in.
MC ² -9	875091	875092	-	-	-	-	.018cu. in.	.009 cu.in.
MC ² -12	875121	875122	875123	875124	875125	875126	.024 cu. in.	.012 cu. in.
MC ² -18	875181	875182	875183	875184	875185	875186	.036 cu. in.	.018 cu. in.
MC ² -24	875241	875242	875243	875244	875245	875246	.048 cu. in.	.024 cu. in.

MC² BASEPLATES

Baseplate Designation	Outlets	Inlet Block	Intermediate Blocks	End Block	Tie Rods
MC ² -3	2-6	87955	(3)87957	87956	(3)236640
MC ² -4	2-8	87955	(4)87957	87956	(3)236641
MC ² -5	2-10	87955	(5)87957	87956	(3)236642
MC ² -6	2-12	87955	(6)87957	87956	(3)236643
MC ² -7	2-14	87955	(7)87957	87956	(3)236644
MC ² -8	2-16	87955	(8)87957	87956	(3)236645

OPERATION

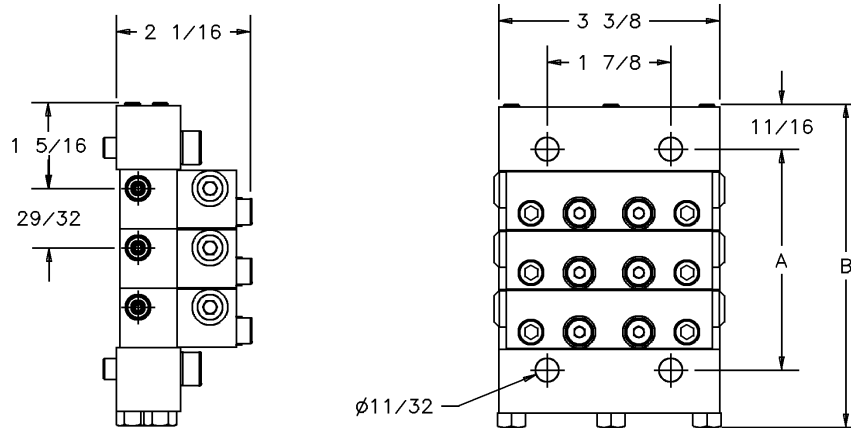
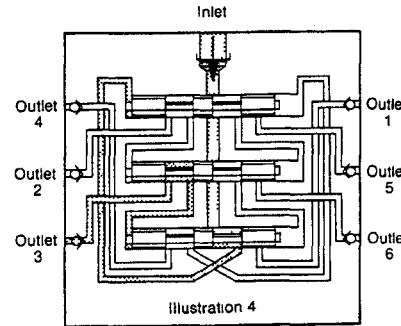
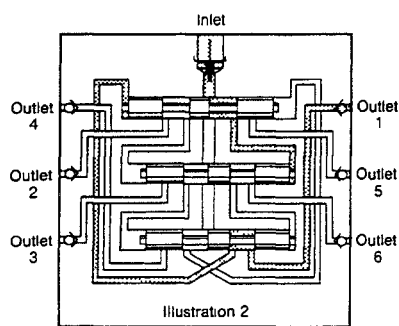
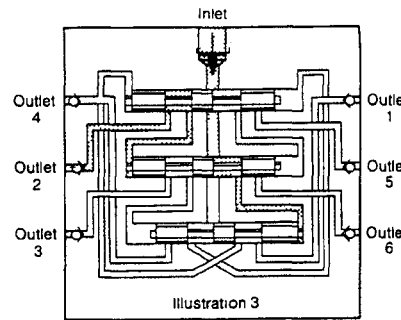
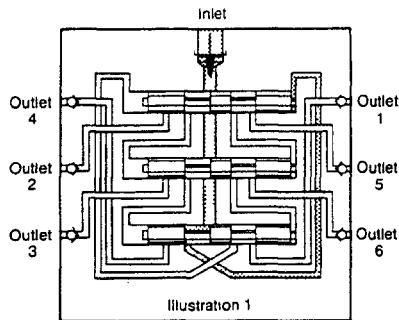
The inlet passageway is connected to all piston chambers at all times with only one piston free to move at any one time. With all pistons at the far right, lubricant from the inlet flows against the right end of piston 1. (See illustration 1)

Lubricant flow shifts piston 1 from right to left dispensing piston 1 output through connecting passages to outlet 1. Piston 1 shift directs flow against right side of piston 2. (See illustration 2)

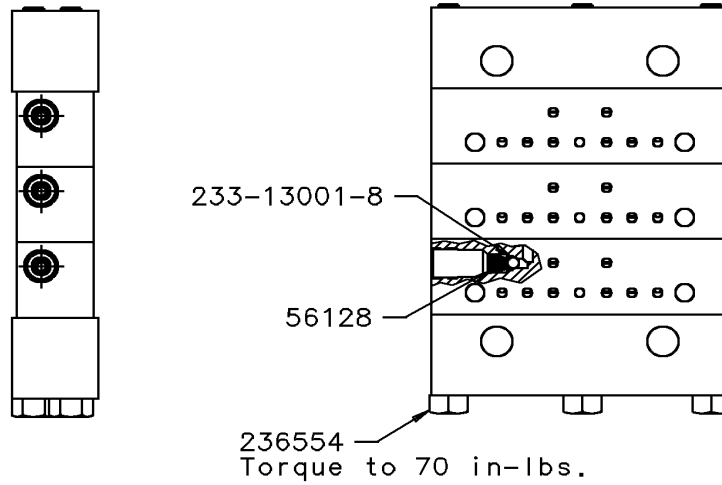
Lubricant flow shifts piston 2 from right to left dispensing piston 2 output through valve ports of piston 1 and through outlet 2. Piston 2 shift directs lubricant flow against right side of piston 3. (See illustration 3)

Lubricant flow shifts piston 3 from right to left dispensing piston 3 output through valve ports of piston 2 and through outlet 3. Piston 3 shift directs lubricant through connecting passage to the left side of piston 1. (See illustration 4)

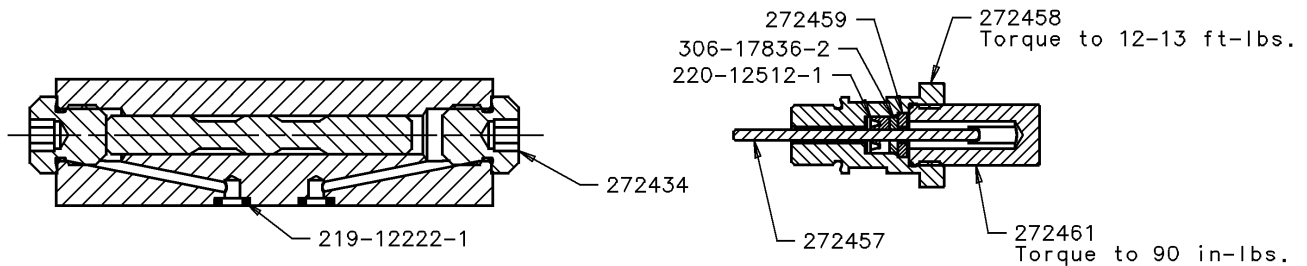
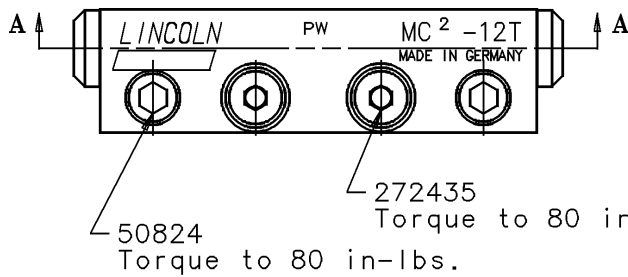
Lubricant flow against left side of piston begins the second half-cycle which shifts pistons from left to right dispensing lubricant through outlets 4, 5 and 6 of the divider valve.



Baseplate	A	B
MC-3	3-3/8"	5-3/32"
MC-4	4-9/32"	6"
MC-5	5-3/16"	6-29/32"
MC-6	6-3/32"	7-13/16"
MC-7	7"	8-23/32"
MC-8	7-9/32"	9-5/8"



BASEPLATE



Part	Description	Part	Description	Part	Description
50824	Bolt	272457	Indicator Pin	219-14136-7	O-Ring
56128	Spring	272458	Closure Plug	220-12512-1	UC Pack
236554	Nut	272459	Washer	233-13001-8	Ball
272434	Closure Plug	272461	Indicator Housing	306-17836-2	Washer
272435	Closure Plug	219-12222-1	O-Ring		

RETAIN THIS INFORMATION FOR FUTURE REFERENCE

When ordering replacement parts, list: Part Number, Description, Model Number and Series Letter.
LINCOLN provides a Distributor Network that stocks equipment and replacement parts.