

DESCRIPTION

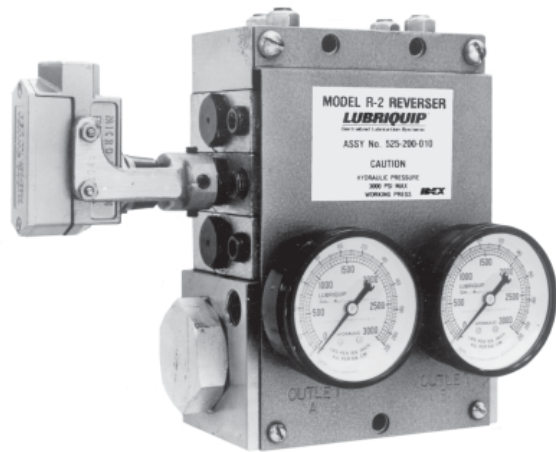
The Trabon Model R-2 Reverser™ hydraulically changes the lubricant flow direction in Trabon single line reversing lubrication systems commonly used on transfer lines and on large machinery and equipment.

Lubricant from the pump is directed through the reverser and into the system. The return flow, after lubricant has been supplied to the entire system from one direction, hydraulically reverses the flow direction, allowing lubricant to flow through the entire system from the opposite direction. When lubricant has been supplied to the system from both directions, one lubrication cycle has been completed.

A cycle-switch attached to the reverser provides a signal when a lube cycle has been completed. This signal can be used, in conjunction with standard Lubriquip control panels, to shut down the pump. Two gauges on the reverser continuously monitor system operating pressure and flow direction.

FEATURES

- Positive operation
- Completely hydraulic in operation
- Works in oil and grease systems
- Operates with Trabon Maxi-Monitor[®] or standard control panels
- Two pressure gauges to facilitate troubleshooting
- Available with either 2-1/2 cu. in. or 1 cu. in. cushion block
- Rugged steel enclosure
- Manifolded construction for easy maintenance



SPECIFICATIONS

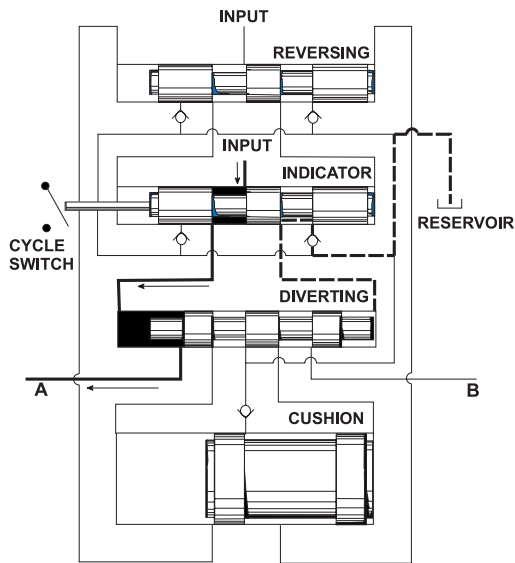
Materials (Basic)	Steel
Seals	Lexide gasket
Working Pressure (Max.)	3000 psig, (210.9 Kg/cm ²)
Lubricant	Oil and grease
Cycle-Switch, SPDT	20 amps 125, 250, 480 VAC 1/2 amp 125 VDC 1/4 amp 250 VDC
Weight.....	31 lbs. 15 oz. (14.486 Kg)
Amount of lubricant required to shift reverser:	
High volume	3.5 cu. in.
Low volume	1.3 cu. in.

OPERATION

1. The Model R-2 Reverser™ includes four hydraulically operated pistons. Two pistons and the lubrication system operate in sequence through a common inlet.
2. The Indicator piston has a pin extending from the block which operates a cycle-switch to signal the end of each cycle.
3. The Model R-2 Reverser™ piston changes the flow direction each half cycle.
4. A series of relief lines and check valves take the lube from the back side of each piston as it moves and returns the lube to the supply tank as shown by the dotted lines in the drawings on pages 2 and 3.
5. The cushion block absorbs the backflow of lubricant from the single line system when the lubricant flow direction is reversed.
6. See back page for details of the step-by-step operation.

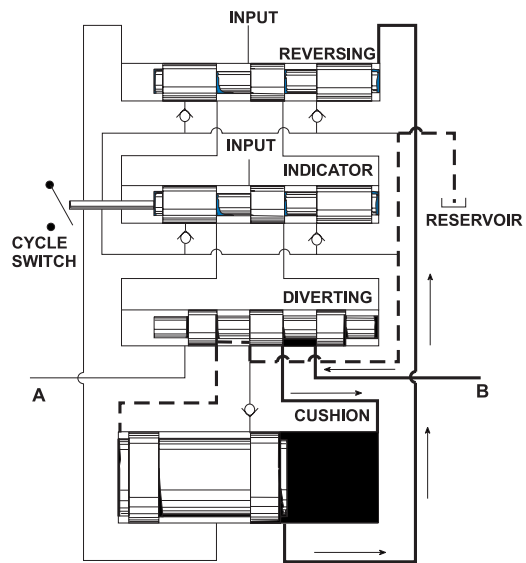
STEP-BY-STEP OPERATION

HALF CYCLE A



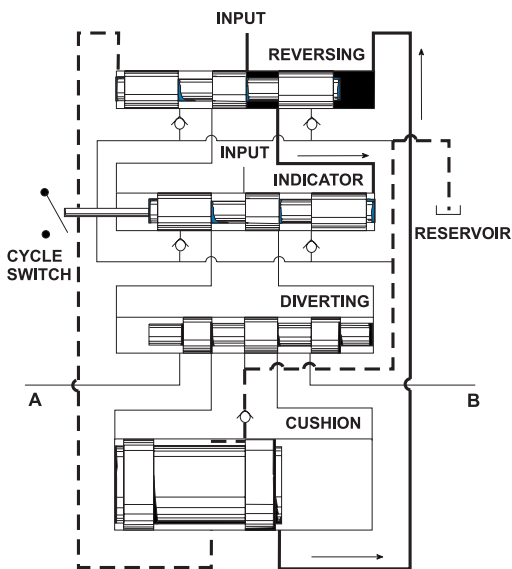
STEP 1

- Input lube ports thru Indicator block,
- moves Diverting piston to full right position,
- allowing lube to flow thru Diverting block and out Port A to the feeders in the lubrication system.



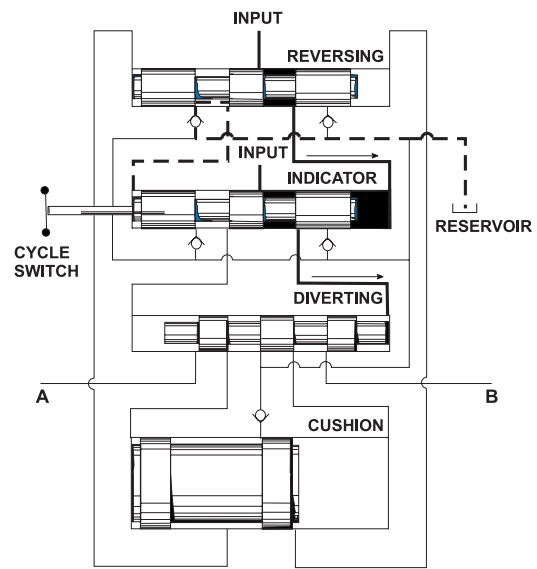
STEP 2

- After supplying all feeders in the system, lube returns thru Port B, ports thru Diverting block,
- moves Cushion piston to full left position,
- allowing lube to flow thru the Cushion block to the Reversing block.



STEP 3

- Lube from the Cushion block moves Reversing piston to full left position,
- allowing lube to port thru the Reversing block to Indicator block



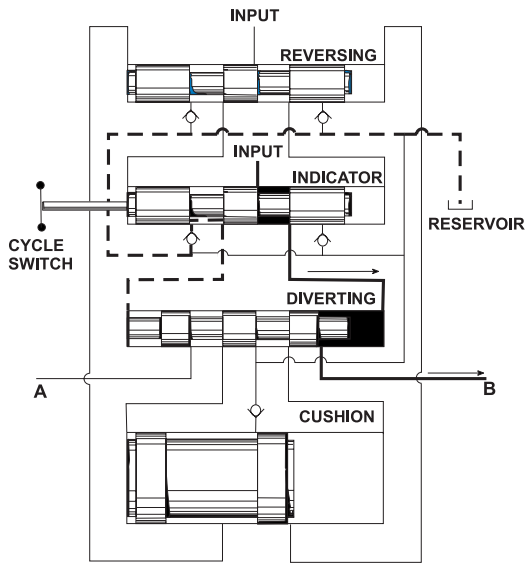
STEP 4

- Lube porting thru Reversing block moves Indicator piston to full left position,
- causing Indicator pin to operate cycle-switch ending half cycle A,
- and allows lube to port thru Indicator block to the Diverting block.

One-half cycle of System is now complete.

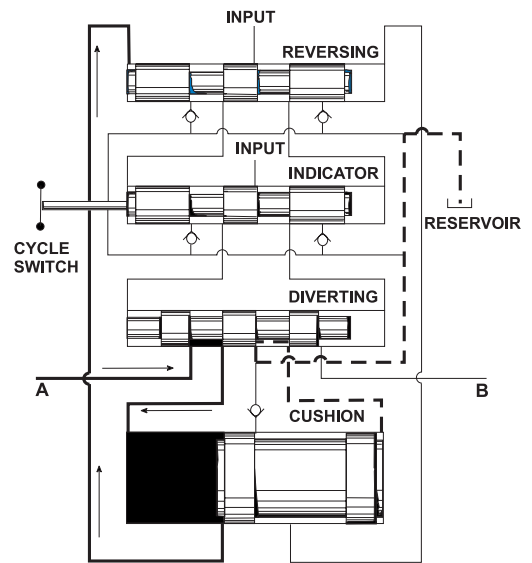
STEP-BY-STEP OPERATION

HALF CYCLE B



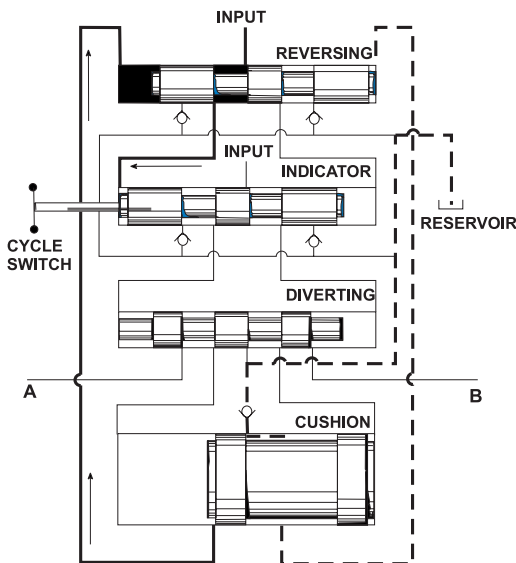
STEP 1

- a. Input lube ports thru indicator block,
- b. moves Diverting piston to full left position,
- c. allowing lube to flow thru Diverting block, and out Port B to the feeders in the lubrication system.



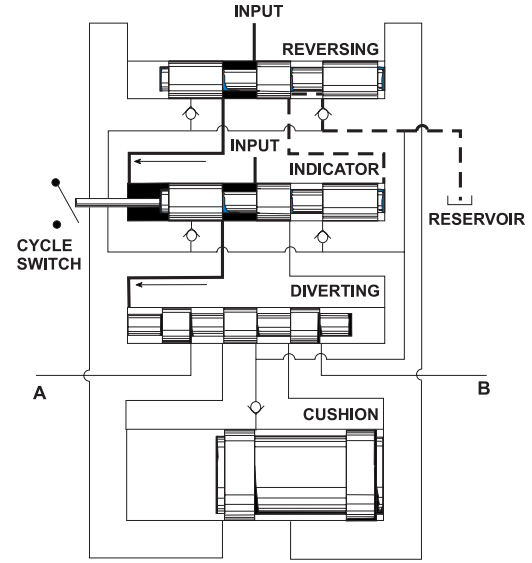
Step 2

- a. After supplying all feeders in the system, lube returns thru Port A, ports thru Diverting block,
- b. moves Cushion piston to full right position,
- c. allowing lube to flow thru the Cushion block to the Reversing block.



Step 3

- a. Lube from the Cushion block moves Reversing piston to full right position,
- b. allowing lube to port thru Reversing block to Indicator block.



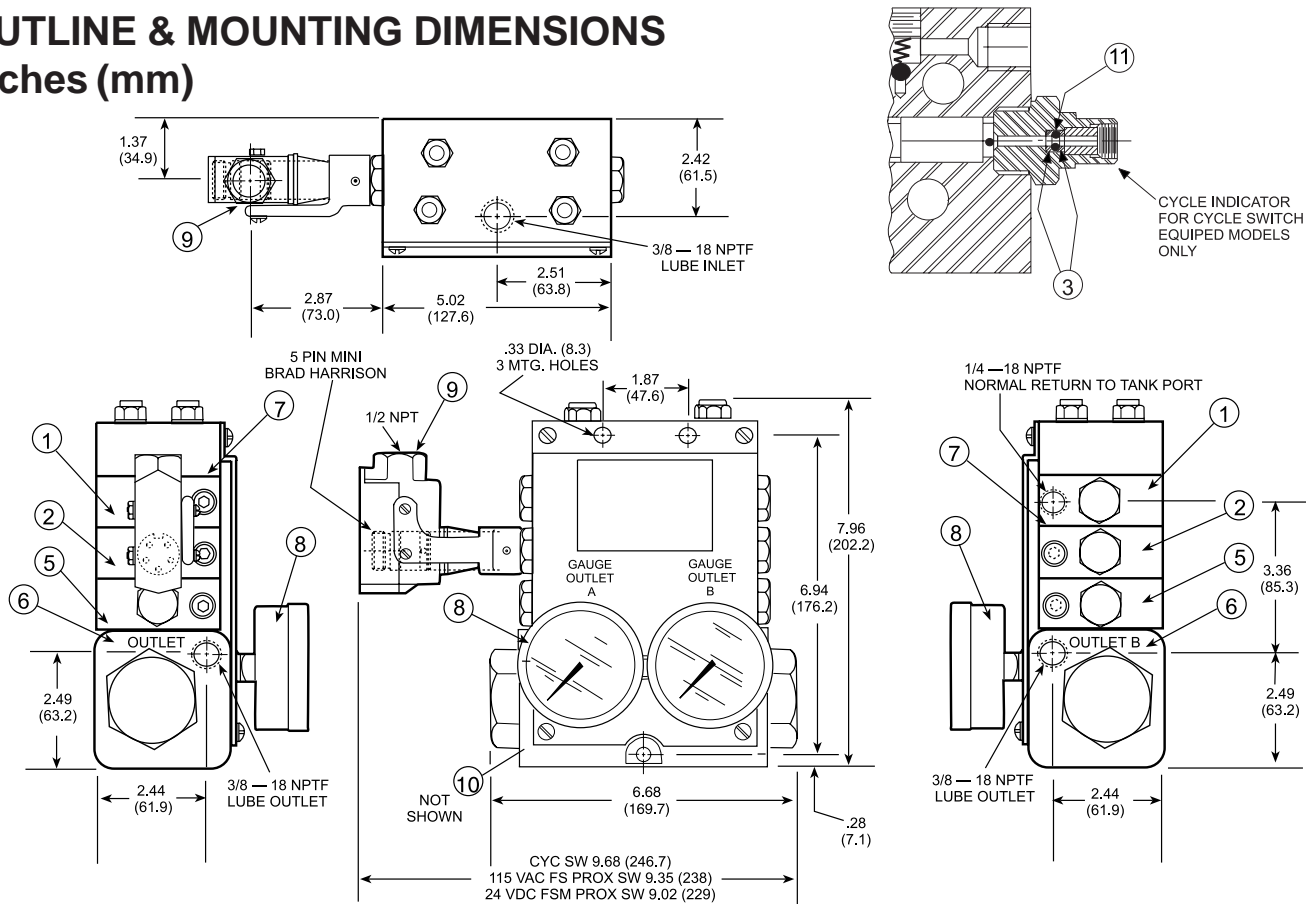
STEP 4

- a. Lube porting thru Reversing block moves indicator piston to full right position,
- b. causes Indicator pin to operate a cycle-switch signaling the end of a complete cycle,
- c. and allows lube to port thru Indicator block to Diverting block.

One full cycle of the System has now been completed.

OUTLINE & MOUNTING DIMENSIONS

Inches (mm)



ORDERING INSTRUCTIONS

R-2 Reverser Models	Part No.
High Volume w/Cycle Sw.	525-200-010
Low Volume w/Cycle Sw.	525-200-190
Low Volume w/115 VAC FS Prox. Sw.	525-200-191
Low Volume w/24 VDC FSM Prox. Sw.	525-200-192

GENERAL APPLICATION NOTES

Use low volume R-2 Reverser for reversing systems using MSP reversing inlets. Use high volume R-2 Reverser as a replacement component in Posi-Flex® Reversing systems.

ISO 9000:2000
REGISTERED FIRM

ISO 14000
REGISTERED FIRM