

Lexair, Inc.

Second Generation 4500-6XXHP Multiple Station Manifold For Aggregate Rail Car Service

- The main valve element is based on our rugged “sliding shoe” construction – the same trouble-free design that has been used in our railcar valves for over three decades.
- The new generation valve features a sequenced, mechanical lock that maintains the valve in the “door close” position regardless of outside forces or vibration.
- The locking feature is released only when an electrical or manual signal to shift has been received.
- The valve is equipped with a visual indicator that clearly shows whether it is in the “door close” position with the valve element locked in place or if it is in the unlocked or “door open” position.

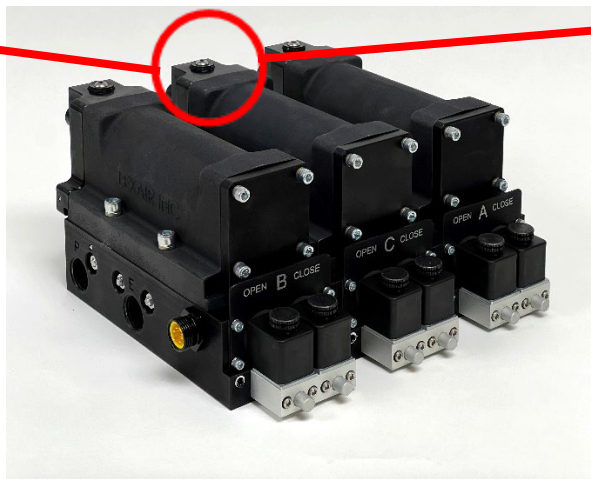
The visual indicator can be inspected while “walking” the train to check for glad-hand connections, reservoir supply or drain valve position, etc. prior to charging the dump system. Any valves found with the indicators extended are in the unlocked or “door open” condition. Simply push the “door close” manual override to return the valve to the “door close” and locked position. Once the indicators are retracted, it is safe to continue with system charging.

When an indicator is found in the unlocked or “door open” position, it means that some sort of inadvertent operation of the valve has occurred such as vandalism, untrained personnel use etc.

The visual indicator is also a great troubleshooting aid when the door mechanism fails to function. You can visually tell if the valve is shifting and whether it is in the “door close” and locked position or in the unlocked or “door open” position. When doors have failed to function during the unloading process due to mechanical reasons (linkage problems, cylinder issues, secondary latch issues, low system pressure, etc) and manual overrides on the valve have been pushed, it is easy for unloading personnel to determine the position of the valve and return it safely to the “door close” and locked position to avoid an inadvertent loss of the load.



EXTENDED INDICATOR
shows that the valve is
unlocked and possibly in the
open condition.



RETRACTED INDICATOR
shows that the valve is
positively in the “door close”
and locked condition.

- Because they are mechanically locked in the “door close” position, the valves may be mounted in any position or orientation - the valve element does not have to be perpendicular to the rails.
- The modular design allows the main valve unit to be removed/replaced in minutes without disturbing the electrical connection or plumbing when repair due to age or service conditions becomes necessary.
- Our patented “Safety Check” technology (U.S. Patents 7,093,455 and 7,328,661) are a standard, “no-charge” option.
- Innovative lock/indicator features latest Lexair, Inc. technology (U.S. Patents 8,038,231 and 8,256,850).

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