ZA Control Troubleshooting

The unit should hold a load for at least an hour before you see drifting begin.

It is normal that the load will drift down after an hour; the air in the piston chamber will begin to loose compression and microscopic leaks will begin to have an effect, so if the unit is not raised and lowered but left for several hours and then the drifting down is noted that is normal.

If the unit is not used and the load drifts up that is a leak at either the hook balance or pendent use the troubleshooting to verify which component is faulty.

ZA Control Troubleshooting

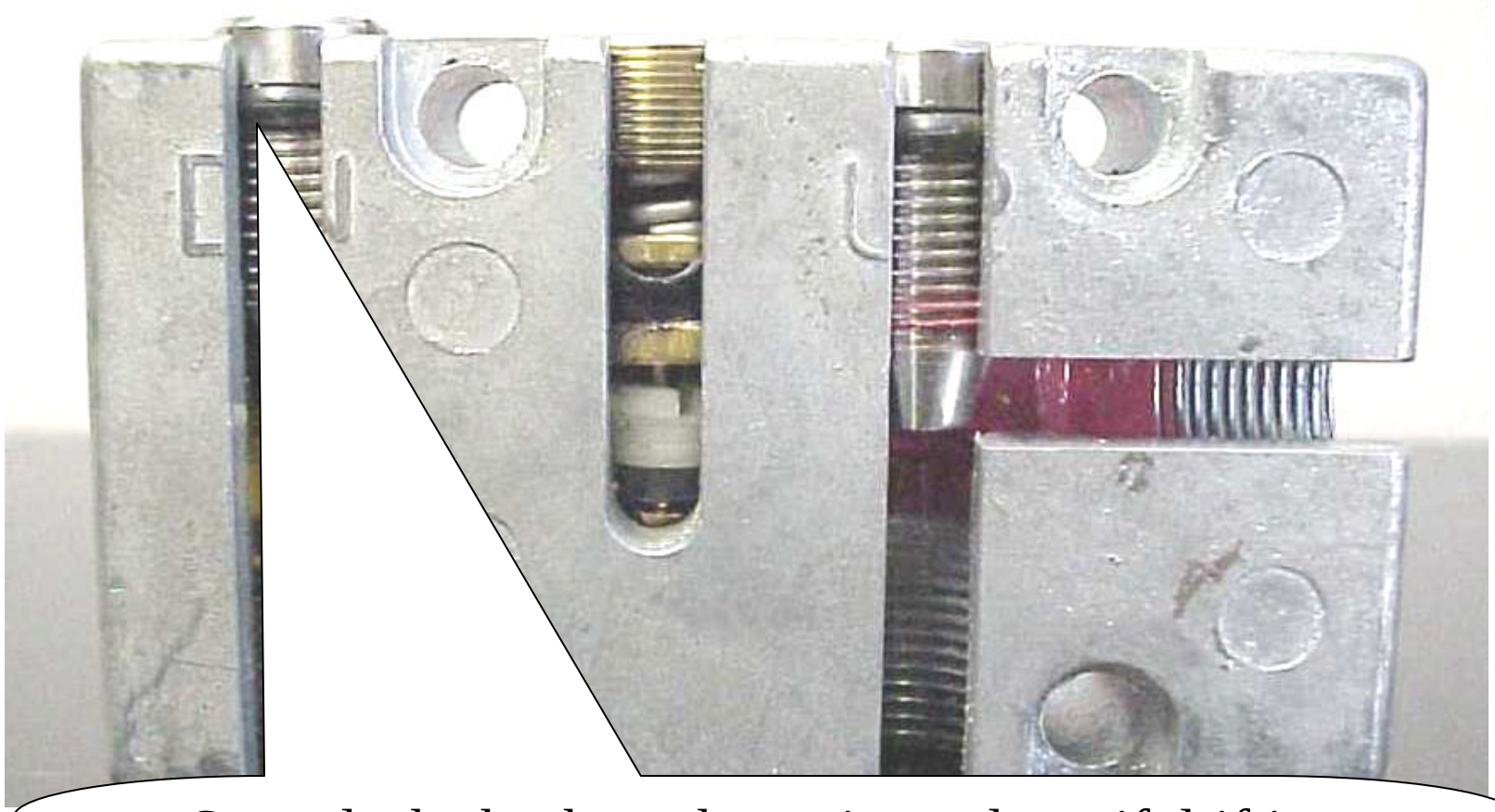
Drifting Down

Set hook balance adjustment to flush with the top of the manifold block.

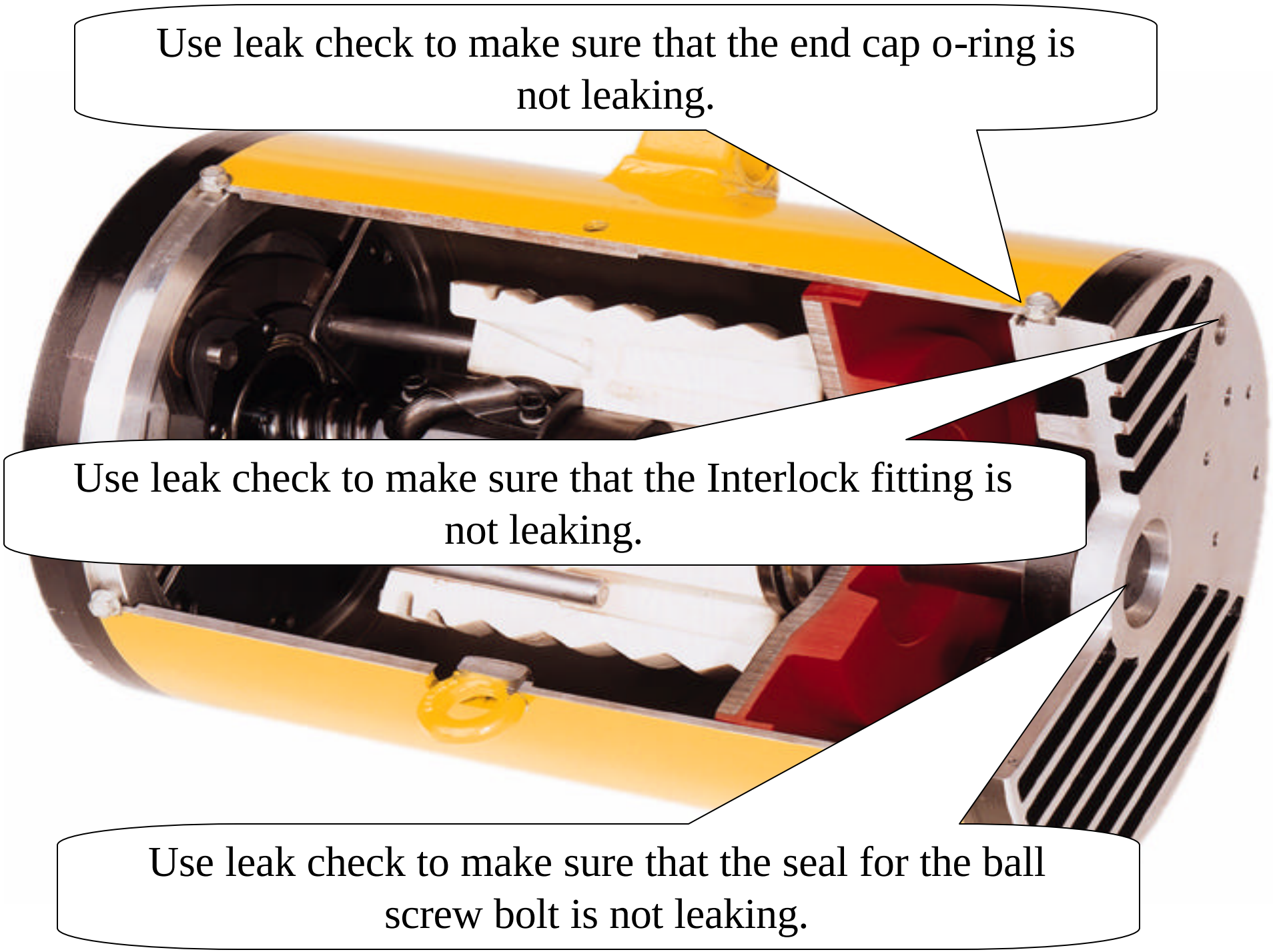
Pinch DOWN hose off to find drifting. If the drifting stops the problem is in the pendent.
If the drifting continues the problem is in the manifold or balancer.

Check each fitting and tube to ensure the tube is cut square and that the fitting is not leaking.

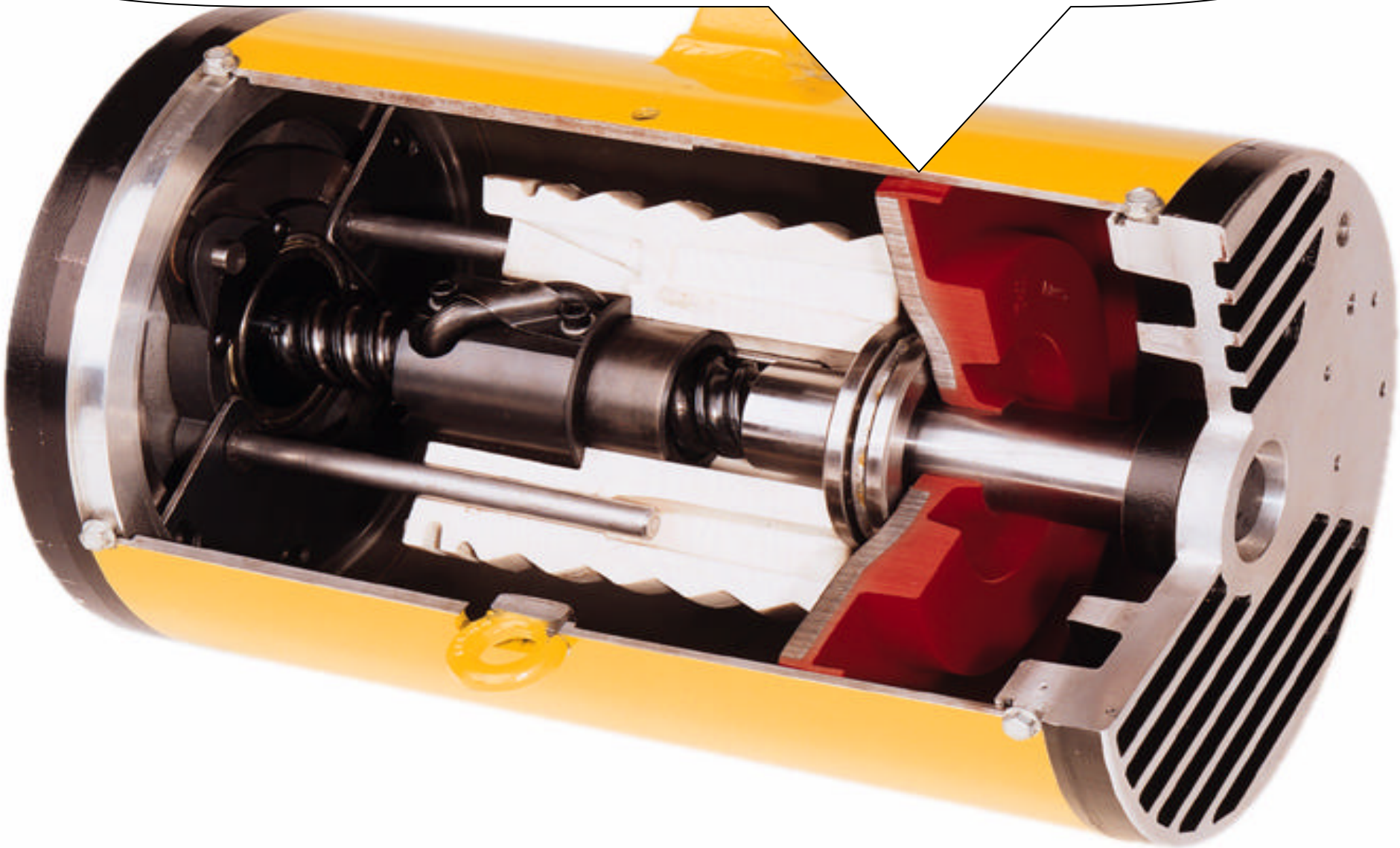
Make sure that the o-ring to seal the manifold to the end cap is installed. It is located behind the manifold's DN port.



Spray leak check on the entire end cap if drifting continues.
Check for bubbles at the down flow control;


Use leak check to make sure that the end cap o-ring is not leaking.
Use leak check to make sure that the Interlock fitting is not leaking.
Use leak check to make sure that the seal for the ball screw bolt is not leaking.

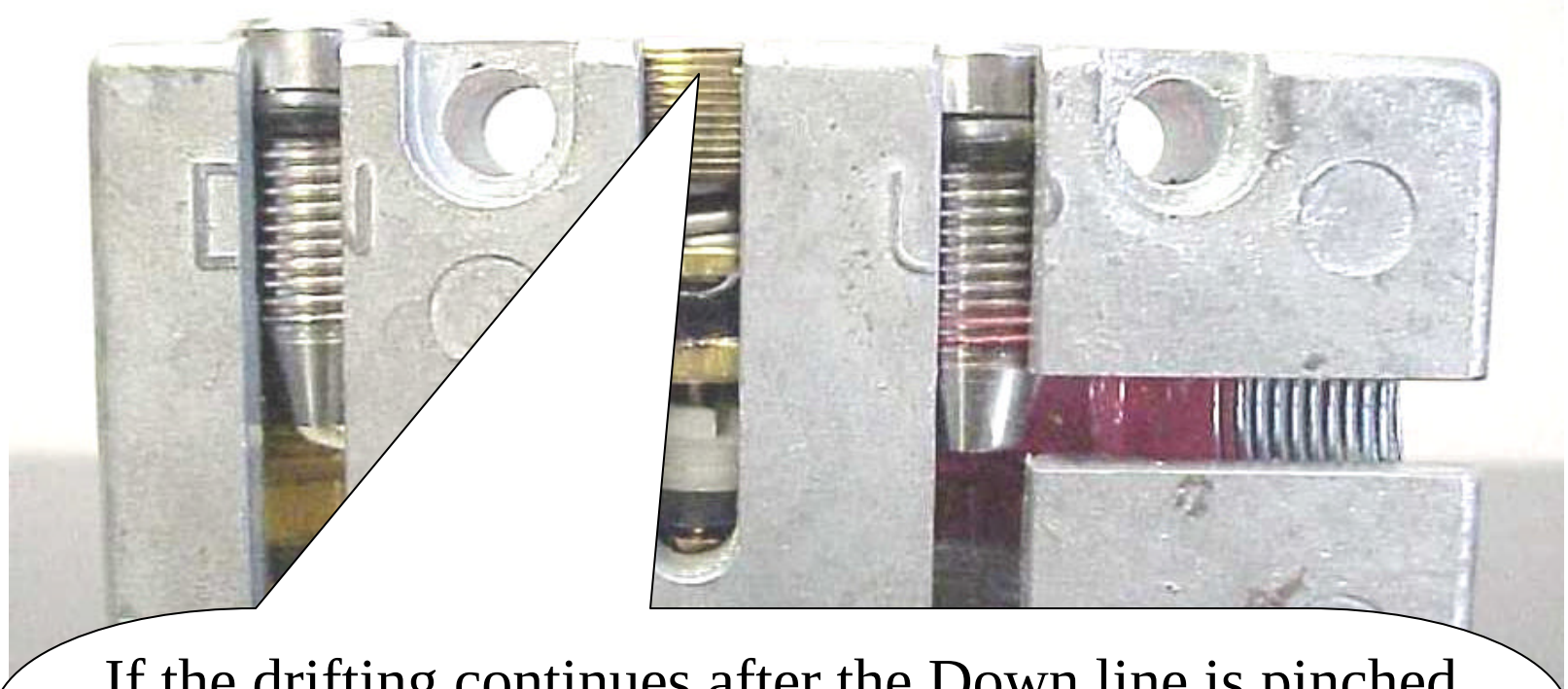
If no leakage is found anywhere, the only remaining item that could cause drifting down is the piston leaking.



ZA Control Troubleshooting

Drifting Up

Pinch DOWN hose off to find drifting. If the drifting stops the problem is in the pendent.
If the drifting continues the problem is in the manifold or balancer.



If the drifting continues after the Down line is pinched off check that the hook balance screw is flush with the top of the manifold block.

If it is flush the hook balance is leaking.

If the drifting stops the leakage is in the pendent up valve.

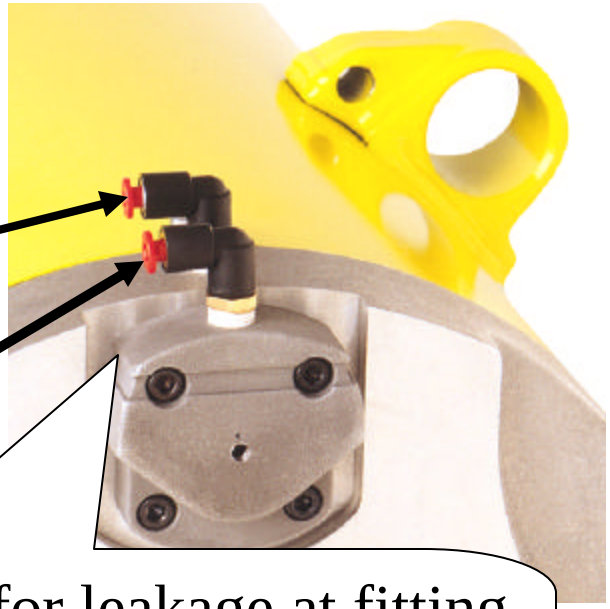
ZA Control Troubleshooting

Drifting

If the Balancer is equipped with the Z-Stop option; leakage at those connections can also cause drifting of the load

Refer to the following sheet for troubleshooting instructions

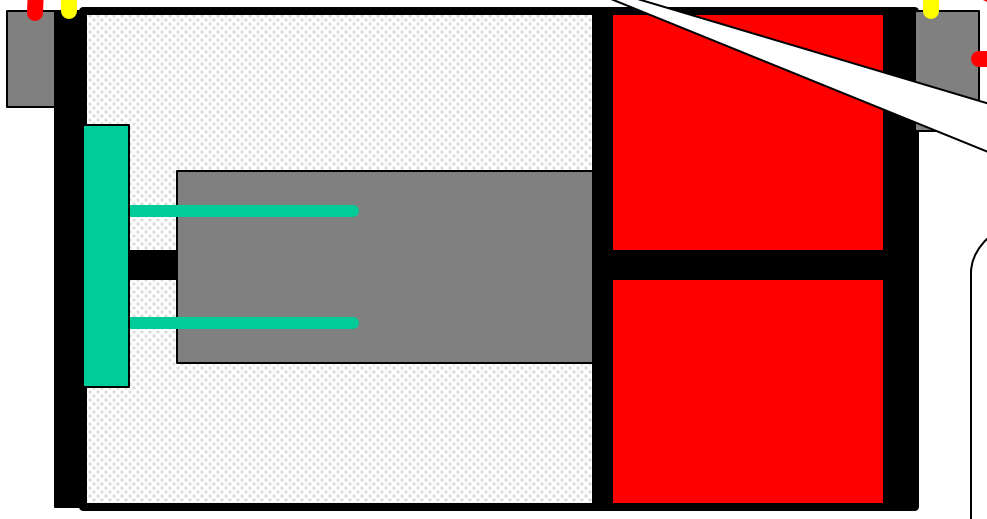
Z-Stop Troubleshooting



Check for leakage at fitting and housing to end cover mating surface

Main Air Supply

Piston Pressure



To determine if the Z-Stop piston is leaking pinch this line and hold; if drifting stops the piston seals are bad

Patent No. 5,522,581 & 5,848,781