INSPECTIONS

Air receiver and compressed air system inspection checklist

The routine check of a compressed air receiver and its system against OSHA 1910.169(b): access to drains and manholes, draining, the pressure gauge, the safety valve and nothing between it and the tank, with a pressure reading and a leak walk.

How often: **Weekly, or at the interval your site sets** Who: **Maintenance technician or operator** **About 10 min** **19 items**

Site or area _____ Asset or line _____

Date and time _____ Completed by _____

Before you use it

- OSHA 29 CFR 1910.169(b) requires every air receiver to be installed so that all drains, handholes and manholes are easily accessible, and never buried underground or located in an inaccessible place; to have a drain pipe and valve at its lowest point, with the receiver completely drained frequently enough to prevent excessive liquid from accumulating; and to have a readily visible indicating pressure gauge and one or more spring-loaded safety valves.
- Under 1910.169(b)(3), the safety valves' total relieving capacity keeps receiver pressure from exceeding the maximum allowable working pressure by more than 10 percent; no valve of any type is placed between the receiver and its safety valves; safety appliances are installed so that they cannot readily be made inoperative, including by the elements; and all safety valves are tested frequently and at regular intervals. OSHA sets no fixed interval for draining or valve testing, so take both from the manufacturer's instructions.
- New receivers are built to the ASME Boiler and Pressure Vessel Code, Section VIII, and safety valves are constructed, installed and maintained to it (1910.169(a)(2)). Record the maximum allowable working pressure from the nameplate and set the pressure limits from it.

Receiver

NO.	ITEM	RESULT	NOTES
1	**Scan the receiver tag**	☐ Visited	
2	**Nameplate legible, with the maximum allowable working pressure**	☐ Pass ☐ Fail ☐ N/A	
3	**Drains, handholes and manholes easily accessible**	☐ Pass ☐ Fail ☐ N/A	
4	**Shell, supports and connections free of visible corrosion, dents and leaks**	☐ Pass ☐ Fail ☐ N/A	

Gauge and safety valve

NO.	ITEM	RESULT	NOTES
5	**Pressure gauge readily visible and readable**	☐ Pass ☐ Fail ☐ N/A	
6	**Receiver pressure** Set the limits from the manufacturer's manual and your normal operating range.	_____ psi or bar Limit _____	
7	**Spring-loaded safety valve fitted, with no valve between it and the receiver**	☐ Pass ☐ Fail ☐ N/A	

NO.	ITEM	RESULT	NOTES
8	**Safety valve and controls not obstructed, gagged or otherwise made inoperative**	☐ Pass ☐ Fail ☐ N/A	
9	**Safety valve tested at its scheduled interval**	☐ Pass ☐ Fail ☐ N/A	
10	**Date of the last safety valve test**	_____	

Drain

NO.	ITEM	RESULT	NOTES
11	**Drain valve at the lowest point opened and the receiver completely drained**	☐ Pass ☐ Fail ☐ N/A	
12	**Liquid drained**	☐ None ☐ Normal ☐ Excessive: shorten the drain interval	
13	**Automatic drain trap, where fitted, discharging**	☐ Pass ☐ Fail ☐ N/A	

System

NO.	ITEM	RESULT	NOTES
14	**No audible air leaks at lines, hoses and fittings**	☐ Pass ☐ Fail ☐ N/A	
15	**Hoses and couplings undamaged and secured**	☐ Pass ☐ Fail ☐ N/A	
16	**Dryer and filters, where fitted, working and drained**	☐ Pass ☐ Fail ☐ N/A	

Result

NO.	ITEM	RESULT	NOTES
17	**Result**	☐ Safe to operate ☐ Removed from service	
18	**Photo of any defect**	☐ Photo taken	
19	**Inspected by**	Name _____ Signature _____ Date _____	

Follow-up

For each failed check or reading out of limit: what was found, what was done, and the work order raised for it.

NO.	WHAT WAS FOUND	ACTION OR WORK ORDER	OWNER	DUE

References

- OSHA 29 CFR 1910.169, air receivers
  https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.169

Free to use and adapt. To run it on mobile, with checkpoint scans, readings checked against their limits as they are entered, and photos and signatures attached to the check, see vardian.io/templates/air-receiver-inspection-checklist.