

# SPRINKLER PIPEWORK CHECKLIST

This checklist should be used and completed throughout the project, and its different stages, delivery, storage, installation & pre-commissioning, before any equipment or system pressure testing occurs.

**Project Name:** [Add]

**Date:** [Add]

**System ID:** [Add]

**Inspector Name:** [Add]

**Company:** [Add]

**Location:** [Add]

# DELIVERY INSPECTION

Once the Sprinkler pipework and ancillaries arrive at the site, usually delivered by a transport company, the following should be checked with the driver before being accepted into storage.

Any noted damage should be reported immediately in writing to the manufacturer/supplier, supported with photographs.

Ref	Type	Inspection/Task	Yes/No/[n/a]	Notes
1	Pipework	Supplier's consolidated delivery ticket is available, showing all equipment and ancillaries for inspection and being used to check the delivery.	tbc	
2	Pipework	A copy of the order is available for reference and used to review the delivery.	tbc	
3	Pipework	Pipework is packaged with end caps to protect the internal surfaces.	tbc	
4	Pipework	Pipework has the correct wall thickness.	tbc	
5	Pipework	Pipework has the correct flanges.	tbc	
6	Pipework	Pipework is dry internally.	tbc	
7	Pipework	Pipework is not damaged.	tbc	
8	Pipework	Pipework surfaces are clean and not scratched	tbc	
9	Pipework	Paint has been applied to the pipework at factory where required and is in good condition.	tbc	
10	Pipework	All ancillaries are included in delivery as per the order and delivery note including all brackets.	tbc	
11	Pipework	Replace any protection that has been removed	tbc	

# STORAGE INSPECTION

If the Sprinkler pipework is to be placed into storage on-site before installation, there should be an inspection completed checking the following.

Ref	Type	Inspection/Task	Yes/No/[n/a]	Notes
1	Storage Area	The area is internal and shall not be affected by the weather.	tbc	
2	Storage Area	If the pipework & ancillaries are not to be stored internally but externally, there is sufficient protection to protect it from weather and ambient conditions.	tbc	
3	Storage Area	The surface where the pipework & ancillaries are to be placed is flat.	tbc	
4	Storage Area	The area is well covered and protected.	tbc	
5	Storage Area	The area is well ventilated and has no risk of high humidity.	tbc	
6	Storage Area	The area is clean & dust-free.	tbc	
7	Pipework and Ancillaries	Pipework & ancillaries will not be over stacked.	tbc	
8	Pipework and Ancillaries	Pipework & ancillaries shall not have materials stacked on them.	tbc	
9	Pipework and Ancillaries	All ancillaries shall be placed in a safe and secure location so items do not go missing or get damaged.	tbc	
10	Pipework and Ancillaries	Pipework/connection caps protecting the flanges are not removed.	tbc	
11	Pipework and Ancillaries	The pipework shall be raised from the floor to allow airflow and stop the risk of water ingress.	tbc	

# PRE-INSTALLATION INSPECTION

Before the pipework & ancillaries are installed, the following should be checked.

Ref	Type	Inspection/Task	Yes/No/[n/a]	Notes
1	Pipework	The bracketry is ready and can bear the weight of the installation, and has been spaced correctly and rated in line with use for Fire Systems.	tbc	
2	Pipework	The room/area is dry and watertight.	tbc	
3	Pipework	The room/area the pipework will be installed into is clean and dust-free.  If there is dust/construction work, the pipework should be protected from concrete dust, cement.	tbc	
4	Pipework	Ensure that any connection kits are available to allow connecting the pipework.	tbc	
5	Pipework	Pipework is clean and free of damage	tbc	

# MAINTENANCE/ACCESS INSPECTION

Prior to the equipment, ancillaries and pipework being installed, the following should be checked.

Ref	Type	Inspection/Task	Yes/No/[n/a]	Notes
1	General	There is enough space allowed around and above the pipework once installed to perform maintenance and remove components, where required  [check the manufacturer's maintenance instructions for requirements]	tbc	

# PRE-FUNCTIONAL TESTING INSPECTION

Once the pipework has been installed and before the functional testing and commissioning phase, the following shall be checked.

Ref	Type	Inspection/Task	Yes/No/[n/a]	Notes
1	Pipework	Pipework & ancillaries are installed according to the project drawings & manufacturers' requirements [size, nozzle location].	tbc	
2	Pipework	Discharge nozzles are installed and oriented per the manufacturer's requirements.	tbc	
3	Pipework	Where nozzle deflectors have been installed, they are positioned according to the manufacturer's requirements and not blocked from operating.	tbc	
4	Pipework	Pipework is free of mechanical damage, obvious leakage and corrosion.	tbc	
5	Pipework	There is no risk of loose objects being stored within the space on shelves, cabinets, or similar surfaces, near to the discharge nozzles interfering with there operation.	tbc	
6	Pipework	Piping is free to expand and contract without noise or damage to hangers, joints, or the building.	tbc	
7	Pipework	Pipework does not put undue stress on ancillaries and equipment, connected and bracketed to support itself.	tbc	
8	Pipework	Piping is installed with sufficient pitch and arranged in a manner to ensure drainage and venting of the entire system.	tbc	
9	Pipework	Seismic restraints, where required, installed.	tbc	
10	Pipework	All piping supports and hangers meet criteria set out in the specifications & manufacturers' requirements, including being securely fastened to prevent unwanted vertical or lateral movement during discharge.	tbc	
11	Pipework	Hangers, brackets and supports are not damaged, loose or unattached.	tbc	
12	Pipework	Pipework is independently supported, no other services are using the sprinkler pipework brackets as support.	tbc	
13	Pipework	Pipework is labelled in line with NFPA.	tbc	
14	Pipework	Any changes in pipe sizes are made with the proper sized reducing fittings.	tbc	
15	Pipework	All fittings meet specification requirements & manufacturers' requirements.	tbc	
16	Pipework	All fittings and ancillaries are rated correctly and in line with the system's pressure & manufacturers' requirements.	tbc	
17	Pipework	All equipment requiring maintenance is accessible (valves, fittings etc).	tbc	
18	Pipework	Piping does not block access to equipment that is part of this system or another system.	tbc	
19	Pipework	All valves are installed as per the drawing & manufacturers' requirements.	tbc	

# PRE-FUNCTIONAL TESTING INSPECTION

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20	Pipework	Pipework is insulated as per the specification and vapor sealed where required.	tbc
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21	Pipework	Pipework is trace heated as per the specification and vapor sealed where required.	tbc
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22	Pipework	All components, including valves and controls, are labelled according to the project naming convention.	tbc
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23	Pipework	Valves/pressure-reducing valves have been installed according to the manufacturer's requirements and are in the correct direction.	tbc
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24	Pipework	All pressure gauges installed and display scale as per design & manufacturers' requirements, where noted on the drawings.	tbc
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25	Documents	All drawings have been updated to reflect any changes made.	tbc
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