

Piper / Quick Start Tutorial

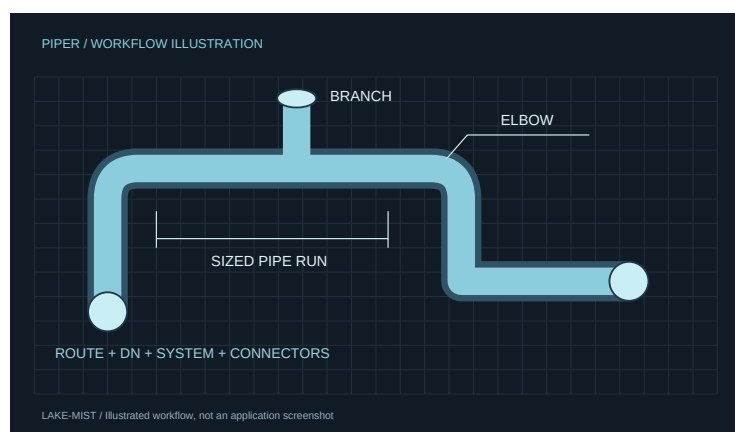
WORK IN PROGRESS | Development build 5.3.0. Features and interface may change. Reviewed 8 October 2026.

Draw a sized pipe run with one elbow

Allow around 15-25 minutes once installation is complete.

Before you start

Start a new Blender scene with Metric units and save piper-practice.blend. Use a supplied route with a supported DN and a 90-degree elbow. This exercise uses DN50 only if your chosen route includes it.



Pipework illustration: a sized run with elbows and a branch. Layout shown is illustrative, not a product screenshot.

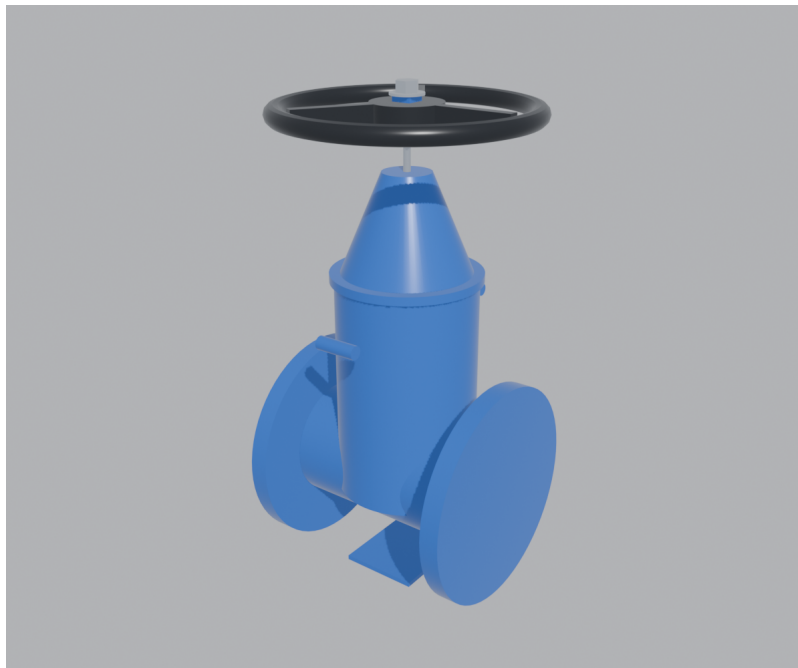
1 / Choose the pipe specification

In Piper, choose a Route. If the scene has no routes, choose Open Database, open Routes, select a supplied route and click Load Route Into Blender. Return to Piper and select it. Use a route containing a compatible 90-degree elbow.

2 / Set size and system

Choose DN50, or another size supported by the route. Check the OD readout. Add or choose a Pipe System and assign it before drawing so the run carries the intended system.

Build and inspect



Development model preview: a DN100 valve part, shown as a geometry example.

3 / Draw the first leg

Choose Draw Pipe Run. Pick a start point and a second point on a horizontal axis. Use the tool's live feedback to keep a straight first leg; make it long enough to fit the selected fittings.

4 / Add a turn

Pick a third point perpendicular to the first leg. Inspect the generated elbow and second straight. Finish the run with Escape or right-click; inspect that the completed geometry remains.

Checkpoint

Inspect the result before continuing. If it differs from the expected operation, undo the last change and repeat with a simpler selection. Save a practice checkpoint once it looks correct.

Finish and verify

5 / Inspect the connections

Select the run and inspect DN and system information. Check the elbow is the intended fitting and that its ends meet the straights. Compare actual outside diameter with the selected route data.

6 / Save and try a revision

Save the model. Use the selected run's DN control to try another supported size, inspect the regenerated fitting and connections, then undo or keep the change and save.

Your completion checklist

- The route contains the chosen size and elbow.
- The two straight legs meet through the intended fitting.
- DN, outside diameter and system information agree with the selected specification.

If something is not right

No routes listed

Open Database from Piper and transfer a route to this scene. Library changes do not automatically update existing project snapshots.

Fitting not created

Check route coverage, DN, bend angle and that there is enough straight length.

Part size and connectors disagree

Check the Part's DN parameter links and connector sizes before routing from it.

Guide scope: instructions were checked against the supplied source and documentation. This is not a certification that every exercise has been run on every build. Development images and earlier captures are labelled.