

Standard sizing of feed line

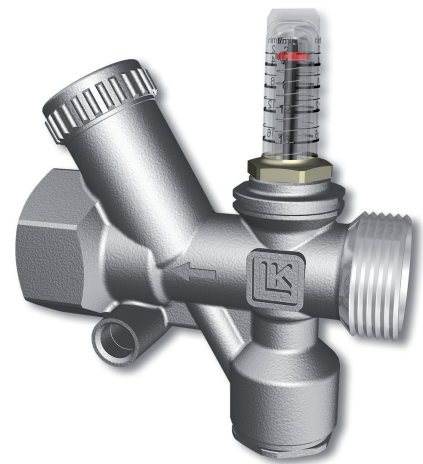
The overall flow of the manifold is read based on LK's underfloor heating calculation. If there is no calculation, the flow from the floor heating surface is approximated using the table below. The maximum length of the feed line is then read (sum of supply and return length) in the diagram below.

Note: The standard sizing of the feed lines refers to the feed from the heat source and the manifold or in a mixed heating systems between the shunt unit and manifold.

In systems with two or more manifolds, all return lines must be fitted with a balancing valve. Balancing valve type LK OptiFlow EVO II, is selected according to the table below.

UNDERFLOOR HEATING FLOW AND SELECTION OF LK OPTIFLOW EVO II BALANCING VALVE

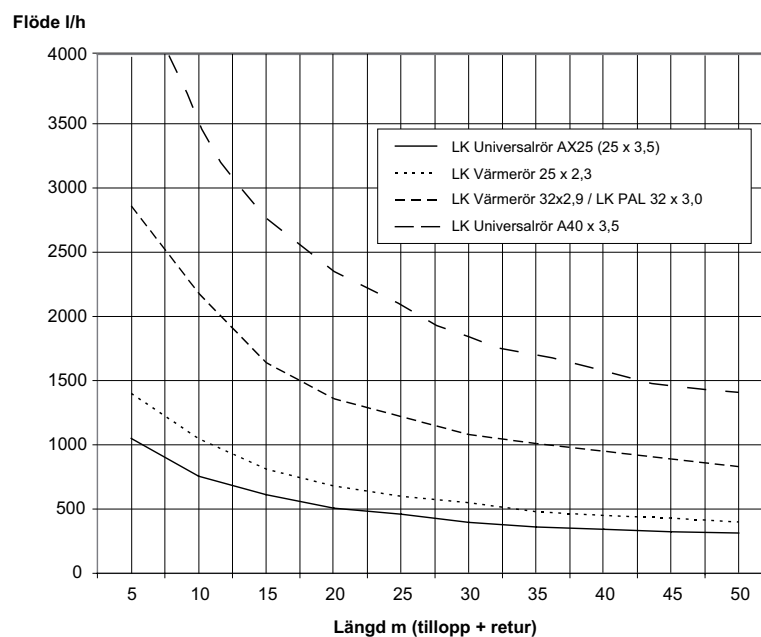
Floor heating surface (m ²)	Flow (l/h) / (l/min)	LK OptiFlow EVO II, flow range (l/min)
25	150 / 2.5	2 - 16
50	300 / 5	2 - 16
75	450 / 7.5	2 - 16
100	600 / 10	2 - 16 / 4 - 36
125	750 / 12.5	2 - 16 / 4 - 36
150	900 / 15	4 - 36
175	1050 / 17.5	4 - 36
200	1200 / 20	4 - 36
225	1350 / 22.5	4 - 36
250	1500 / 25	4 - 36
275	1650 / 27.5	4 - 36
300	1800 / 30	4 - 36



LK OptiFlow EVO II balancing valve.

The flow is calculated at 50W/m² and Δt 7°.

FEED PIPE



The chart is based on a maximum pressure drop of 5 kPa in the feed lines.