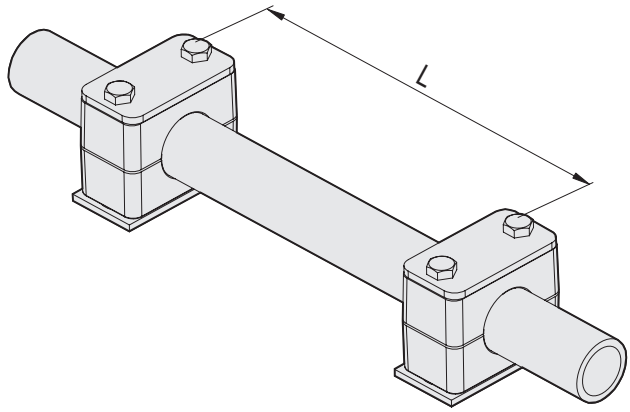
14 DIN 3015 tube clamps

Placement of the tube clamps

If the section of the tube is straight, a minimum distance between the pairs of tube clamps must be provided; this mainly depends on the tube diameter.

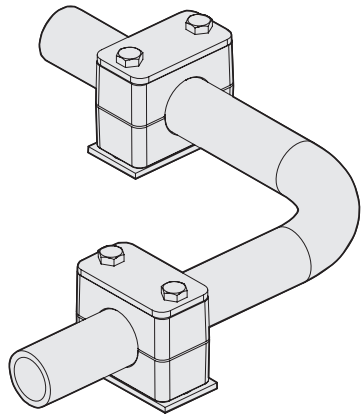
These distances apply to all tube clamp series such as: DCE-S, DCE-H, DCE-D and the corresponding assembled kits DCK-S, DCK-H, DCK-D.

The table shows the recommended minimum distances



Tube external diameter	L [m]
6 - 13.5	1
13.5 - 18	1.2
18 - 32	1.5
32 - 38	2
38 - 57.2	2.7
57.2 - 75	3
75 - 76.1	3.5
76.1 - 88.9	3.7

In addition to the linear distance, it is important to ensure that the tube clamps are positioned correctly near sharp curves. Specifically, the tube clamps must be positioned on each side of the curve, as close as possible to the bend.

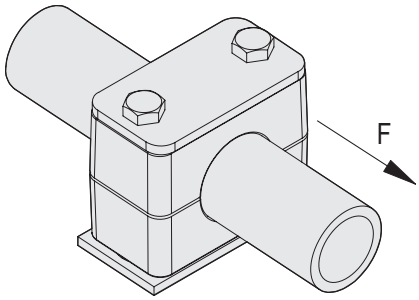


Tightening torques and axial forces

The table shows the values of the tightening torque and axial force F for the mounting of KITs DCK-S, DCK-H and DCK-D respectively.

In particular, the KIT configuration allows for the use of tube clamps DCE-S (Standard Series), DCE-H (Heavy-duty Series), DCE-D (Double Series) and with top plates (DCE-PU), lower plates to be welded (DCE-PL) and hexagon head screws (DCE-SRE).

The load value F is an average value from tests carried out with S 235 JR steel tube.
If the tube clamp is subjected to axial stress, the tube will not slip inside the clamp.
Sliding occurs when the F value has been reached.



Standard series			
Group	**Screw**	**Tightening torque [Nm]**	**Maximum axial load F [kN]**
1	M6	8	0.7
2	M6	8	1.2
3	M6	8	1.5
4	M6	8	1.7
5	M6	8	1.8
6	M6	8	2
7	M6	8	2.2

Heavy-duty series			
Group	**Screw**	**Tightening torque [Nm]**	**Maximum axial load F [kN]**
1	M10	13	1.8
2	M10	13	3
3	M10	15	3.5
4	M12	30	8.5
5	M16	46	11.5

Double series			
Group	**Screw**	**Tightening torque [Nm]**	**Maximum axial load F [kN]**
1	M6	6	1.1
2	M8	13	2.5
3	M8	13	2.1
4	M8	13	2.9
5	M8	9	2.2