

Beam adapters Type 76

On alterations or extensions of the pipe systems or steelwork in existing plants, clamp connections are frequently preferred to welded connections. Clamp connections are strictly specified in cases where welding connections are excluded for safety reasons.

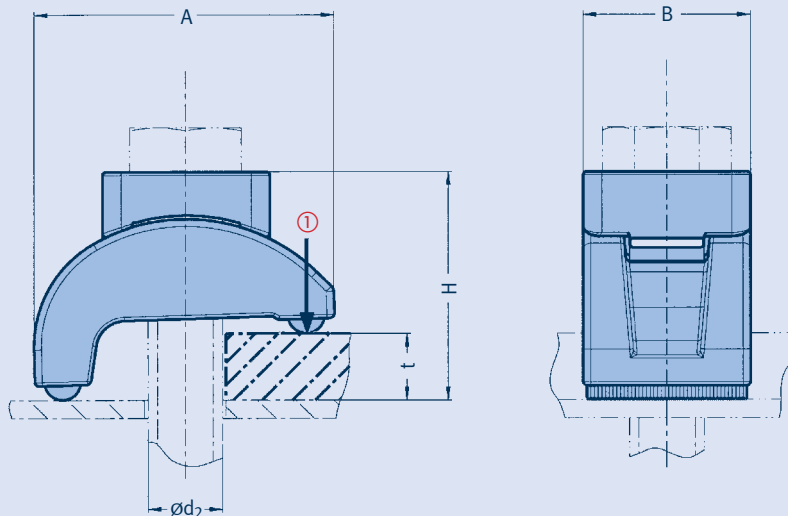
The safety of the clamping effect of such connections depends essentially on the nature of the existing contact surfaces and the prestressing forces applied. The design of the clamping components used is therefore decisive for a reliable connection.

For the creation of safe and reliable clamp connections LISEGA offers the beam adapter system type 76. These components enable the connection of very different components to existing steelwork without welding or drilling.

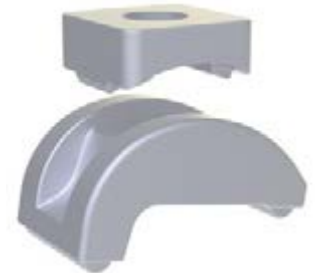
Assembly is simple and timesaving. On tightening, LISEGA beam adapters adjust independently to the existing beam thickness.

If the specified tightening torques are observed, lasting security of the connections is guaranteed. Any corrosion protection already present, such as hot-dip galvanization or paint coatings, incurs no damage.

The special support segments are the main feature of the LISEGA beam adapters. Due to their shape they automatically adapt to any position and to existing profile angles.



**Beam adapters
type 76 D2 11 to 76 42 11**
Material: cast iron hot dip galvanized.

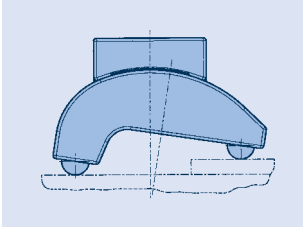


① The loads specified correspond to this in load case H. 'Max. permissible loads' p. 0.6. For further load cases see table.

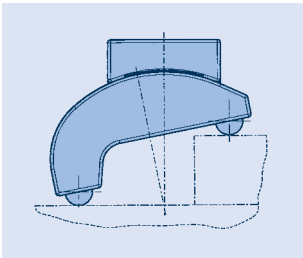
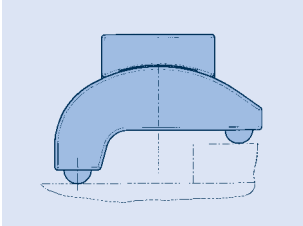
② Friction value $\mu = 0.14$.

type	on bolting 8.8		A	B	$\varnothing d_2$	H_{min}	H_{max}	t		weight [kg]
	support force [kN] ①	tight. torque [Nm] max ②						(clamp thickness) min	max	
76 D2 11	2.5	35	48	24	M10	31	37	3	15	0.1
76 22 11	6.0	70	57	30	M12	37	45	4	17	0.2
76 32 11	8.5	150	70	37	M16	44	54	6	20	0.3
76 42 11	15.0	300	83	46	M20	55	65	6	25	0.6

Order details:
beam adapter (without bolt)
type 76 .. 11
bolts for beam adapters,
see p. 7.7.



The hardened support segments have a circular groove profile that is pressed into the contact surface on tightening. This way, a **form-fit contact is produced which ensures that no shifting in any direction takes place.**



Typical utilization of beam clamps at different material thicknesses



Example of use:
Attachment of clamp base to steel beam

Example of connections with beam adapters

Cross-connection



The safe connection of beam profiles to each other is produced very easily with an inlay plate and 8 LISEGA beam adapters. The load-bearing capacity of a cross-connection can be found in the table below.

Load-bearing capacity of cross-connections with LISEGA beam adapters

type	load capacity [kN] for 4 bolts (8.8)	thickness of inlay plate
76 D2 11	10	10
76 22 11	24	12
76 32 11	34	15
76 42 11	60	18

Bolts for beam adapters

bolt type	dimensions	weight [kg]
76 D2 11 - 065	M10 x 65	0.06
76 D2 11 - 080	M10 x 80	0.07
76 D2 11 - 100	M10 x 100	0.08
76 22 11 - 070	M12 x 70	0.09
76 22 11 - 090	M12 x 90	0.10
76 22 11 - 120	M12 x 120	0.12
76 32 11 - 090	M16 x 90	0.19
76 32 11 - 120	M16 x 120	0.23
76 32 11 - 150	M16 x 150	0.27
76 42 11 - 120	M20 x 120	0.39
76 42 11 - 150	M20 x 150	0.45
76 42 11 - 180	M20 x 180	0.51

Hexagon bolts DIN EN ISO 4017, thread to head, grade 8.8, hot dip galvanized, including a hexagon nut DIN EN ISO 4032, grade 8, hot dip galvanized.



Order details:

bolt for beam adapter type 76 .2 11- ...

Profile connection



The connection of profiles to each other can be made either directly or by using an inlay plate.