

Notes on the following working load tables

The load values apply to pipe shoes from the HCP range as well as to the high temperature pipe shoes.
The load values are based on room temperature.

For higher temperatures, the corresponding temperature correction values according to the attached table must be taken into account.

Axial fixed point forces F_x can only be attained by the professional use of anti-slip protections (e.g. cleats, stoppers). Those have to be planned during the design of the piping and are on the responsibility of the piping manufacturer. To use our fixed point sets, fixed point angles and axial stops, it is necessary to dismantle the sliding plate, so a friction value of $\mu = 0.3$ should be taken into account for the pipe static consideration.

The tests for lifting forces - F_z were performed using a combination of a pipe shoe LA - HV and a guiding or fixed points sets. This results in the values for - F_z in the following combinations:

- beam connection with the **FS** guiding set or the **XS** fixed point set.
- cell Connection to siFramo with the guiding bracket **FW F** or the fixed point bracket **XW F**

Further statical product datas are available on request.

Design temperatures of pipe support components

The media temperature t_f has an influence on the system of the pipe support components. Acc. to DIN EN 13480-3 „all components of the pipe support have to be designed based on a range of temperature from 0°C to 80°C. If the operational temperatures of the piping system are outside of this range, the corresponding values have to be specified.“

During the design of pipe supports, components are basically assigned into 2 groups: inside and outside of insulation.

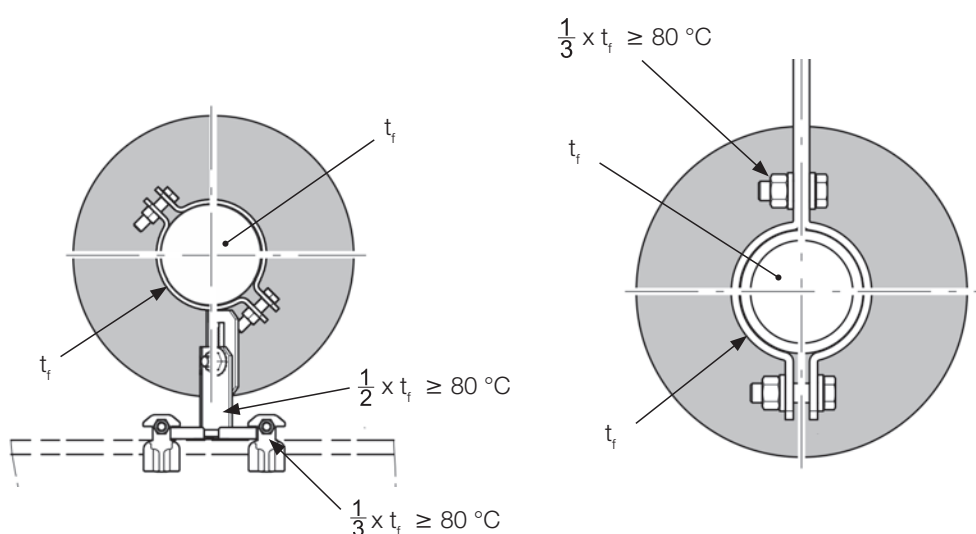
For all components beeing placed inside of an insulation the following values apply²:

Kind of component	Design temperature t of the pipe support (depending on the media temperature t_f)
Straps, pipe clamps and welded components with extensive contact to the piping system	$t = t_f$
Components not in contact with the piping system	$t = t_f - 20\text{ °C}$
Bolts, nuts, etc.	$t = t_f - 30\text{ °C}$

For all components beeing placed outside of the insulation the following values apply³:

Kind of component	Media temperature t_f	Design temperature t of the pipe support
Components in direct contact with the pipe	$t_f > 80\text{ °C}$	$t = \frac{1}{2} \times t_f$ (min. 80°C)
	$t_f \leq 80\text{ °C}$	$t = 80\text{ °C}$
Bolts, nuts, etc.	$t_f > 80\text{ °C}$	$t = \frac{1}{3} \times t_f$ (min. 80°C)
	$t_f \leq 80\text{ °C}$	$t = 80\text{ °C}$

For clarification of the tables see the graphical illustration⁴:



¹ Compare EN 13480-3:2014-12, Table 13.3.1

² Compare EN 13480-3:2014-12, Chapter 13.3.2.2-1

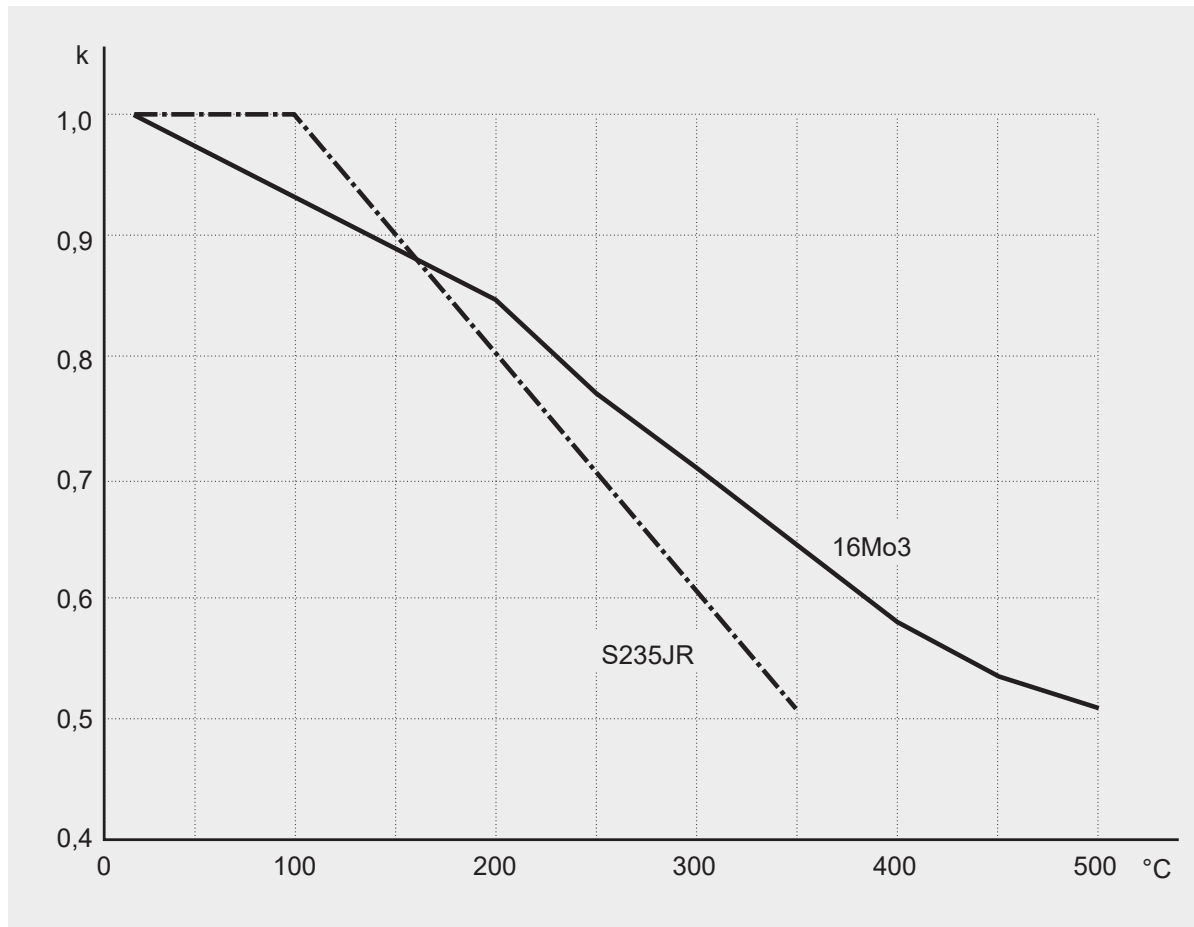
³ Compare EN 13480-3:2014-12, Table 13.3.2-2

⁴ Compare EN 13480-3:2014-12, Image 13.3.2-1

Correction values for pipe support components

The working loads of the SIKLA pipe shoes LA, LC and LD as well as for the rod hangers are valid for component temperatures up to 80°C. If components are getting warmer than 80 °C in service, the stated working loads have to be added with the correction value k to reduce the working loads. Because SIKLA pipe support components are manufactured with steel grade S235JR (or higher), the appropriate correction value has to be applied.

Correction value k depending on the temperature:



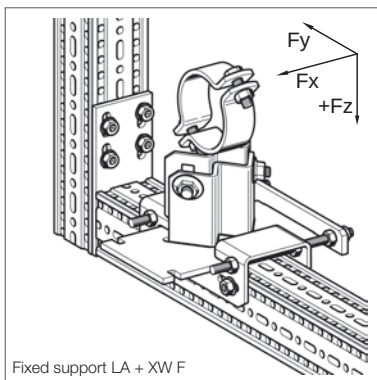
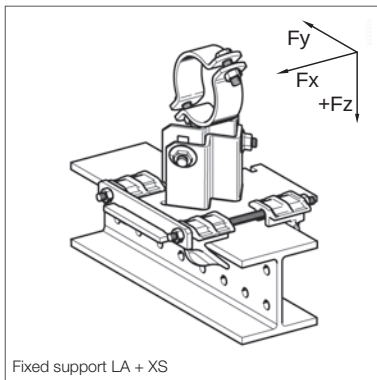
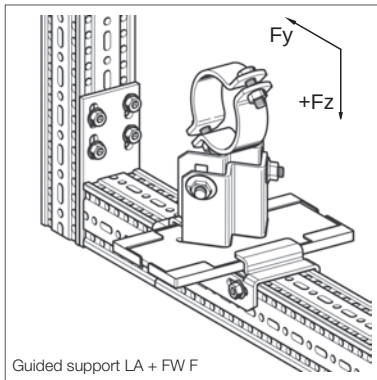
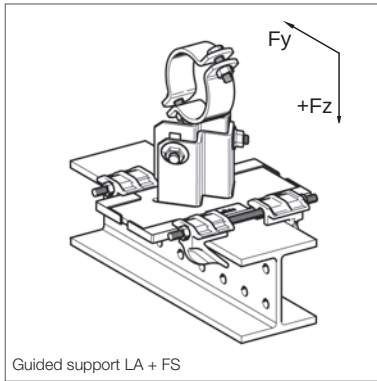
Correction values and practical application

$$F_{\text{perm}} \geq F_{\text{exist}}$$

$$(F_{\text{perm}} = F_{R,20^\circ\text{C}} \cdot k) \geq F_{\text{exist}}$$

- F_{perm} permissible load of Sikla pipe shoe at temperature t_x [°C]
 F_{exist} pipe load according to structural analysis
 $F_{R,20^\circ\text{C}}$ permissible load of Sikla pipe shoe at 20 °C
 k correction value

Temperature t [°C]	Correction value k	
	16Mo3	S235JR
20	1.00	1.00
80	0.95	1.00
100	0.93	1.00
150	0.89	0.90
200	0.85	0.81
250	0.77	0.71
300	0.71	0.61
350	0.64	0.52
400	0.58	-
450	0.53	-
500	0.51	-



Working loads for Pipe Shoes LA, LC and LD - HV /

DN sizes

Pipe Shoe LA - HV + Guiding Set FS resp. Fixed Point Set XS

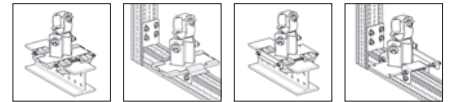
Pipe Shoe LA - HV + Guiding Bracket FW F resp. Fixed Point Bracket XW F

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

Please note the information on page 46 about the working loads.

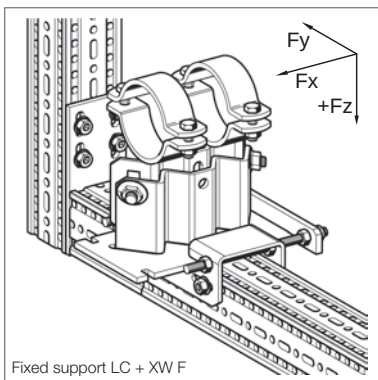
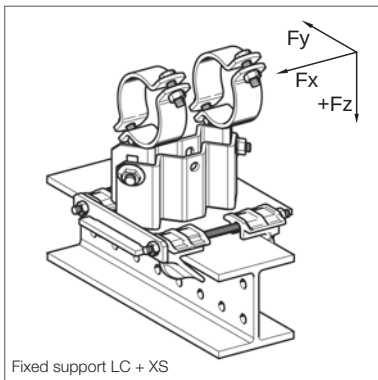
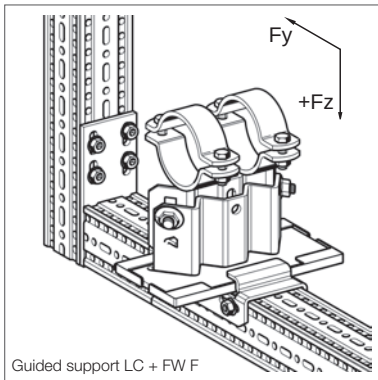
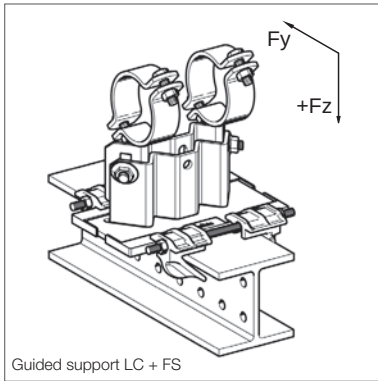
DN sizes

* only for fixed supports



LA - HV	DN	F_x^* [kN]	F_y [kN]	$+F_z$ [kN]	$-F_z$ FS 80/120 [kN]	$-F_z$ FW F [kN]	$-F_z$ XS 80/120 [kN]	$-F_z$ XW F [kN]
90	≤ 25	9.7	7.4	15.4	14	6.1	15.4	15.4
90	32	9.4	7.1	15.4	14	6.1	15.4	15.4
90	40	9.2	7	15.4	14	6.1	15.4	15.4
90	50	8.8	6.7	15.4	14	6.1	15.4	15.4
90	65	8.3	6.2	15.4	14	6.1	15.4	15.4
90	80	7.9	5.9	15.4	14	6.1	15.4	15.4
90	100	7.1	5.1	15.4	14	6.1	15.4	15.4
90	125	6.3	4.4	15.4	14	6.1	15.4	15.4
90	150	5.4	3.6	15.4	14	6.1	15.4	15.4
150	≤ 25	8.1	5.4	15.4	14	6.1	15.4	15.4
150	32	8	5.2	15.4	14	6.1	15.4	15.4
150	40	7.9	5.1	15.4	14	6.1	15.4	15.4
150	50	7.7	4.8	15.4	14	6.1	15.4	15.4
150	65	7.4	4.5	15.4	14	6.1	15.4	15.4
150	80	7.3	4.3	15.4	14	6.1	15.4	15.4
150	100	6.9	3.7	15.4	14	6.1	15.4	15.4
150	125	6.5	3.2	15.4	14	6.1	15.4	15.4
150	150	6.1	2.6	15.4	14	6.1	15.4	15.4
200	≤ 25	6.6	4.9	15.4	14	6.1	15.4	15.4
200	32	6.4	4.7	15.4	14	6.1	15.4	15.4
200	40	6.4	4.7	15.4	14	6.1	15.4	15.4
200	50	6.3	4.5	15.4	14	6.1	15.4	15.4
200	65	6.1	4.2	15.4	14	6.1	15.4	15.4
200	80	6	4.1	15.4	14	6.1	15.4	15.4
200	100	5.7	3.7	15.4	14	6.1	15.4	15.4
200	125	5.4	3.3	15.4	14	6.1	15.4	15.4
200	150	5.1	2.8	15.4	14	6.1	15.4	15.4





Pipe Shoe LC - HV + Guiding Set FS resp. Fixed Point Set XS

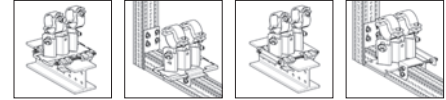
Pipe Shoe LC - HV + Guiding Bracket FW F resp. Fixed Point Bracket XW F

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

Please note the information on page 46 about the working loads.

DN sizes

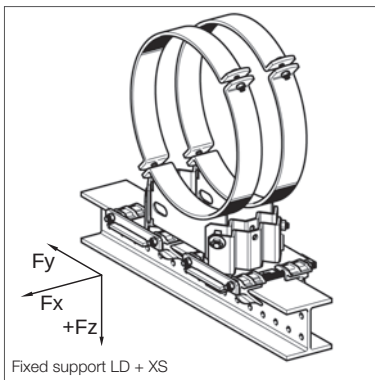
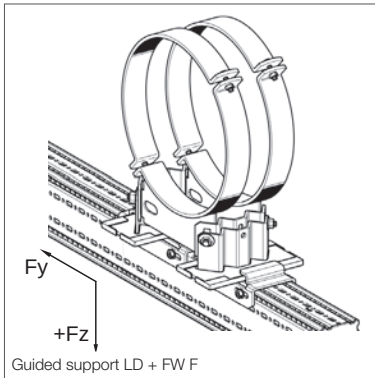
* only for fixed supports



LC - HV	DN	F_x^* [kN]	F_y [kN]	$+F_z$ [kN]	$-F_z$ FS 80/120 [kN]	$-F_z$ FW F [kN]	$-F_z$ XS 80/120 [kN]	$-F_z$ XW F [kN]
90	≤ 25	11.4	6.4	17.0	14	6.1	17	17
90	32	11.3	6.2	17.0	14	6.1	17	17
90	40	11.3	6.1	17.0	14	6.1	17	17
90	50	11.2	5.9	17.0	14	6.1	17	17
90	65	11.1	5.6	17.0	14	6.1	17	17
90	80	11.1	5.4	17.0	14	6.1	17	17
90	100	10.9	5	17.0	14	6.1	17	17
90	125	10.8	4.6	17.0	14	6.1	17	17
90	150	10.6	4	17.0	14	6.1	17	17
90	200	10.3	3.1	17.0	14	6.1	17	17
90	250	9.9	2.2	17.0	14	6.1	17	17
90	300	9.6	1.4	17.0	14	6.1	17	17
150	≤ 25	8.6	4.7	17.0	14	6.1	17	17
150	32	8.6	4.6	17.0	14	6.1	17	17
150	40	8.6	4.6	17.0	14	6.1	17	17
150	50	8.5	4.4	17.0	14	6.1	17	17
150	65	8.5	4.2	17.0	14	6.1	17	17
150	80	8.5	4.1	17.0	14	6.1	17	17
150	100	8.4	3.8	17.0	14	6.1	17	17
150	125	8.3	3.5	17.0	14	6.1	17	17
150	150	8.3	3.2	17.0	14	6.1	17	17
150	200	8.1	2.7	17.0	14	6.1	17	17
150	250	8	2.1	17.0	14	6.1	17	17
150	300	7.9	1.5	17.0	14	6.1	17	17
200	≤ 25	7.4	5	17.0	14	6.1	17	17
200	32	7.4	4.9	17.0	14	6.1	17	17
200	40	7.4	4.8	17.0	14	6.1	17	17
200	50	7.4	4.7	17.0	14	6.1	17	17
200	65	7.3	4.5	17.0	14	6.1	17	17
200	80	7.3	4.4	17.0	14	6.1	17	17
200	100	7.3	4.1	17.0	14	6.1	17	17
200	125	7.2	3.8	17.0	14	6.1	17	17
200	150	7.2	3.5	17.0	14	6.1	17	17
200	200	7.1	2.9	17.0	14	6.1	17	17
200	250	7	2.3	17.0	14	6.1	17	17
200	300	7	1.7	17.0	14	6.1	17	17



Supports (Pipe Shoes)



Pipe Shoe LD - HV + 2 x Guiding Set FS resp. 2 x Fixed Point Set XS

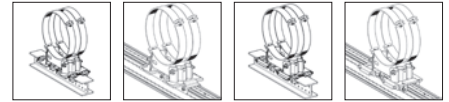
Pipe Shoe LD - HV + 2 x Guiding Bracket FW F resp. 2 x Fixed Point Bracket XW F

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

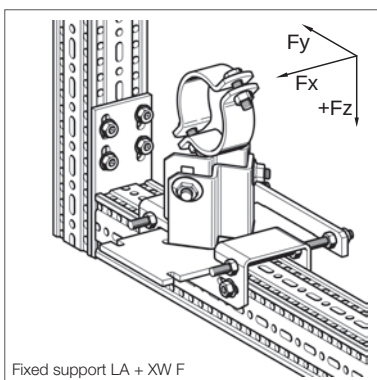
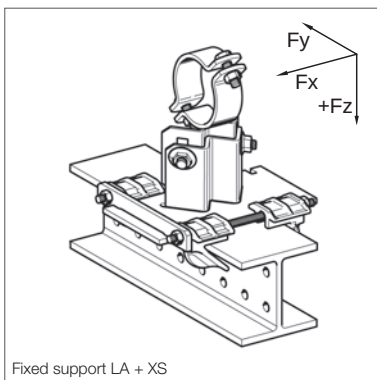
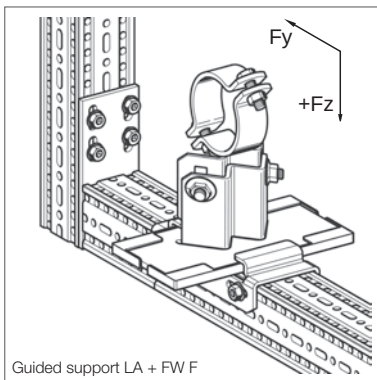
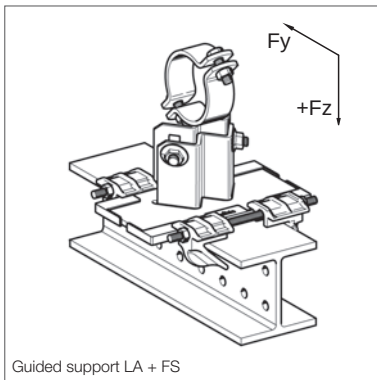
Please note the information on page 46 about the working loads.

DN sizes

* only for fixed supports



LD - HV	DN	F_x^* [kN]	F_y [kN]	$+F_z$ [kN]	$-F_z$ FS 80/120 [kN]	$-F_z$ FW F [kN]	$-F_z$ XS 80/120 [kN]	$-F_z$ XW F [kN]
90	200	37,2	12,9	32,8	28	12,2	32,8	32,8
90	250	37,2	12,9	32,8	28	12,2	32,8	32,8
90	300	37,2	12,9	32,8	28	12,2	32,8	32,8
90	350	37,2	13,1	32,8	28	12,2	32,8	32,8
90	400	31,6	11,9	32,8	28	12,2	32,8	32,8
90	500	20,8	9,4	32,8	28	12,2	32,8	32,8
90	600	9,5	7,2	32,8	28	12,2	32,8	32,8
150	200	30,8	12,7	32,8	28	12,2	32,8	32,8
150	250	30,8	12,7	32,8	28	12,2	32,8	32,8
150	300	30,8	12,7	32,8	28	12,2	32,8	32,8
150	350	30,8	12,9	32,8	28	12,2	32,8	32,8
150	400	26,3	11,5	32,8	28	12,2	32,8	32,8
150	500	17,3	8,8	32,8	28	12,2	32,8	32,8
150	600	8,1	6,3	32,8	28	12,2	32,8	32,8
200	200	24,6	11,1	32,8	28	12,2	32,8	32,8
200	250	24,6	11,1	32,8	28	12,2	32,8	32,8
200	300	24,6	11,1	32,8	28	12,2	32,8	32,8
200	350	25	11,3	32,8	28	12,2	32,8	32,8
200	400	21,6	10,2	32,8	28	12,2	32,8	32,8
200	500	15,7	8,1	32,8	28	12,2	32,8	32,8
200	600	9,5	6,1	32,8	28	12,2	32,8	32,8



Working loads for Pipe Shoes LA, LC and LD - HV

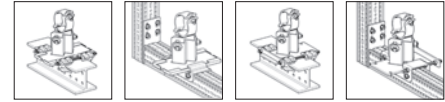
Pipe Shoe LA - HV + Guiding Set FS resp. Fixed Point Set XS

Pipe Shoe LA - HV + Guiding Bracket FW F resp. Fixed Point Bracket XW F

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

Please note the information on page 46 about the working loads.

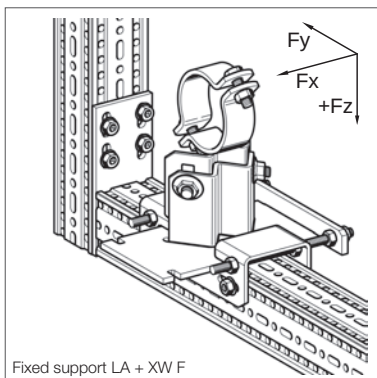
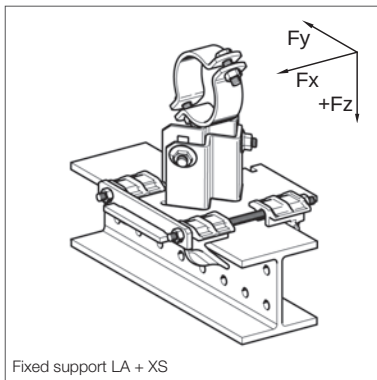
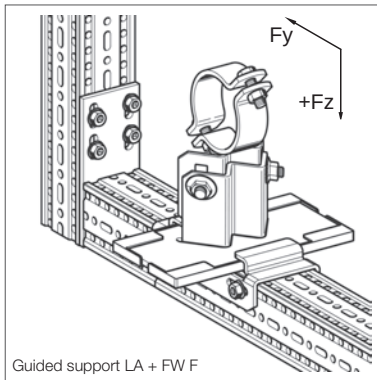
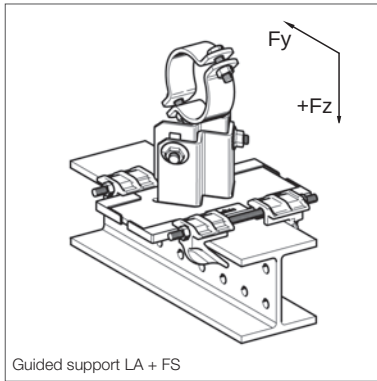
* only for fixed supports



LA - HV	D (pipe) [mm]	F_x^* [kN]	F_y [kN]	$+F_z$ [kN]	$-F_z$ FS 80/120 [kN]	$-F_z$ FW F 80 [kN]	$-F_z$ XS 80/120 [kN]	$-F_z$ XW F 80 [kN]
90	14-18	9.7	7.4	15.4	14	6.1	15.4	15.4
90	18-22	9.7	7.4	15.4	14	6.1	15.4	15.4
90	23-27	9.7	7.4	15.4	14	6.1	15.4	15.4
90	26-30	9.7	7.4	15.4	14	6.1	15.4	15.4
90	30-34	9.7	7.4	15.4	14	6.1	15.4	15.4
90	35-39	9.5	7.3	15.4	14	6.1	15.4	15.4
90	40-44	9.4	7.1	15.4	14	6.1	15.4	15.4
90	45-49	9.2	7	15.4	14	6.1	15.4	15.4
90	50-54	9.1	6.9	15.4	14	6.1	15.4	15.4
90	55-59	8.9	6.7	15.4	14	6.1	15.4	15.4
90	57-61	8.8	6.7	15.4	14	6.1	15.4	15.4
90	62-66	8.7	6.5	15.4	14	6.1	15.4	15.4
90	67-71	8.5	6.4	15.4	14	6.1	15.4	15.4
90	72-77	8.3	6.2	15.4	14	6.1	15.4	15.4
90	78-83	8.1	6	15.4	14	6.1	15.4	15.4
90	84-89	7.9	5.9	15.4	14	6.1	15.4	15.4
90	89-95	7.7	5.7	15.4	14	6.1	15.4	15.4
90	96-102	7.5	5.5	15.4	14	6.1	15.4	15.4
90	102-109	7.3	5.3	15.4	14	6.1	15.4	15.4
90	109-115	7.1	5.1	15.4	14	6.1	15.4	15.4
90	115-122	6.9	4.9	15.4	14	6.1	15.4	15.4
90	122-128	6.7	4.8	15.4	14	6.1	15.4	15.4
90	128-134	6.5	4.6	15.4	14	6.1	15.4	15.4
90	134-140	6.3	4.4	15.4	14	6.1	15.4	15.4
90	140-146	6.1	4.3	15.4	14	6.1	15.4	15.4
90	146-152	5.9	4.1	15.4	14	6.1	15.4	15.4
90	152-158	5.7	3.9	15.4	14	6.1	15.4	15.4
90	157-163	5.5	3.8	15.4	14	6.1	15.4	15.4
90	163-169	5.4	3.6	15.4	14	6.1	15.4	15.4



Supports (Pipe Shoes)



Pipe Shoe LA - HV + Guiding Set FS resp. Fixed Point Set XS

Pipe Shoe LA - HV + Guiding Bracket FW F resp. Fixed Point Bracket XW F

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

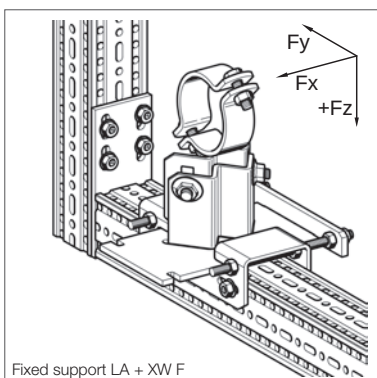
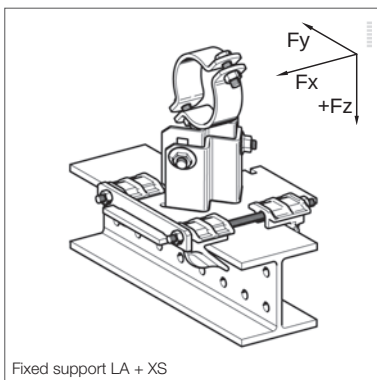
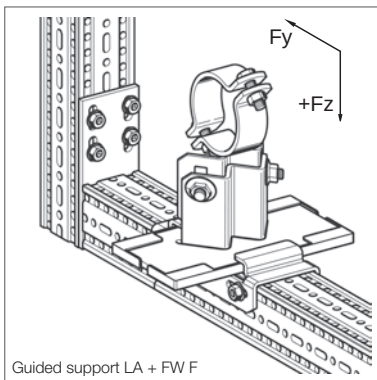
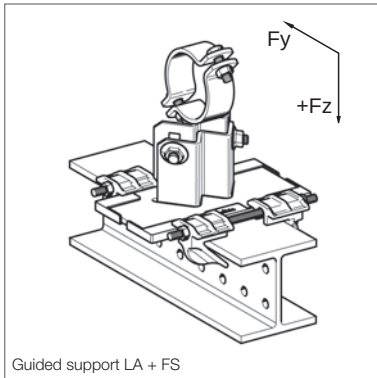
Please note the information on page 46 about the working loads.

* only for fixed supports

LA - HV	D (pipe) [mm]	F _x * [kN]	F _y [kN]	+ F _z [kN]				
					- F _z FS 80/120 [kN]	- F _z FW F 80 [kN]	- F _z XS 80/120 [kN]	- F _z XW F 80 [kN]
150	14-18	8.1	5.4	15.4	14	6.1	15.4	15.4
150	18-22	8.1	5.4	15.4	14	6.1	15.4	15.4
150	23-27	8.1	5.4	15.4	14	6.1	15.4	15.4
150	26-30	8.1	5.4	15.4	14	6.1	15.4	15.4
150	30-34	8.1	5.4	15.4	14	6.1	15.4	15.4
150	35-39	8.1	5.3	15.4	14	6.1	15.4	15.4
150	40-44	8	5.2	15.4	14	6.1	15.4	15.4
150	45-49	7.9	5.1	15.4	14	6.1	15.4	15.4
150	50-54	7.8	5	15.4	14	6.1	15.4	15.4
150	55-59	7.7	4.9	15.4	14	6.1	15.4	15.4
150	57-61	7.7	4.8	15.4	14	6.1	15.4	15.4
150	62-66	7.6	4.7	15.4	14	6.1	15.4	15.4
150	67-71	7.5	4.6	15.4	14	6.1	15.4	15.4
150	72-77	7.4	4.5	15.4	14	6.1	15.4	15.4
150	78-83	7.4	4.4	15.4	14	6.1	15.4	15.4
150	84-89	7.3	4.3	15.4	14	6.1	15.4	15.4
150	89-95	7.2	4.1	15.4	14	6.1	15.4	15.4
150	96-102	7.1	4	15.4	14	6.1	15.4	15.4
150	102-109	6.9	3.9	15.4	14	6.1	15.4	15.4
150	109-115	6.9	3.7	15.4	14	6.1	15.4	15.4
150	115-122	6.7	3.6	15.4	14	6.1	15.4	15.4
150	122-128	6.6	3.5	15.4	14	6.1	15.4	15.4
150	128-134	6.5	3.3	15.4	14	6.1	15.4	15.4
150	134-140	6.5	3.2	15.4	14	6.1	15.4	15.4
150	140-146	6.4	3.1	15.4	14	6.1	15.4	15.4
150	146-152	6.3	3	15.4	14	6.1	15.4	15.4
150	152-158	6.2	2.8	15.4	14	6.1	15.4	15.4
150	157-163	6.1	2.7	15.4	14	6.1	15.4	15.4
150	163-169	6.1	2.6	15.4	14	6.1	15.4	15.4



Supports (Pipe Shoes)



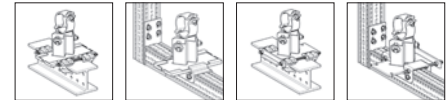
Pipe Shoe LA - HV + Guiding Set FS resp. Fixed Point Set XS

Pipe Shoe LA - HV + Guiding Bracket FW F resp. Fixed Point Bracket XW F

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

Please note the information on page 46 about the working loads.

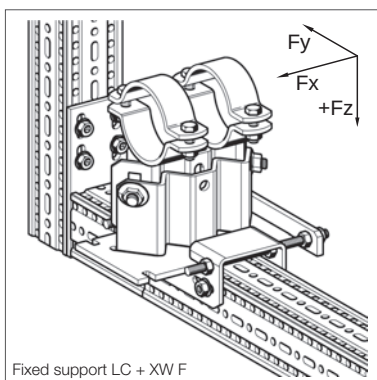
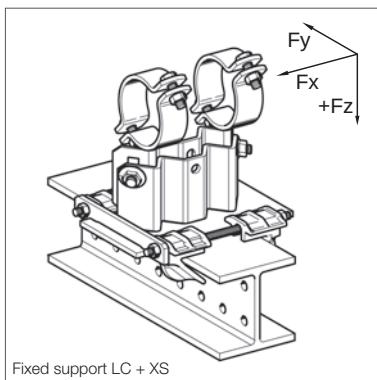
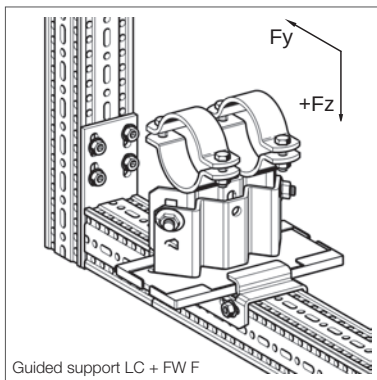
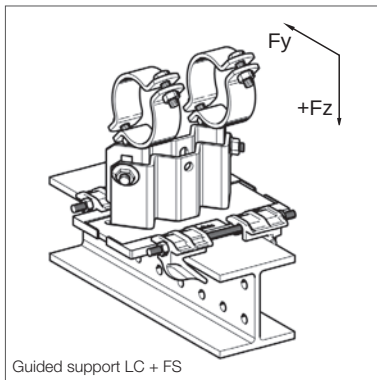
* only for fixed supports



LA - HV	D (pipe) [mm]	F _x * [kN]	F _y [kN]	+ F _z [kN]	- F _z FS 80/120 [kN]	- F _z FW F 80 [kN]	- F _z XS 80/120 [kN]	- F _z XW F 80 [kN]
200	14-18	6.6	4.9	15.4	14	6.1	15.4	15.4
200	18-22	6.6	4.9	15.4	14	6.1	15.4	15.4
200	23-27	6.6	4.9	15.4	14	6.1	15.4	15.4
200	26-30	6.6	4.9	15.4	14	6.1	15.4	15.4
200	30-34	6.6	4.9	15.4	14	6.1	15.4	15.4
200	35-39	6.5	4.8	15.4	14	6.1	15.4	15.4
200	40-44	6.4	4.7	15.4	14	6.1	15.4	15.4
200	45-49	6.4	4.7	15.4	14	6.1	15.4	15.4
200	50-54	6.3	4.6	15.4	14	6.1	15.4	15.4
200	55-59	6.3	4.5	15.4	14	6.1	15.4	15.4
200	57-61	6.3	4.5	15.4	14	6.1	15.4	15.4
200	62-66	6.2	4.4	15.4	14	6.1	15.4	15.4
200	67-71	6.2	4.3	15.4	14	6.1	15.4	15.4
200	72-77	6.1	4.2	15.4	14	6.1	15.4	15.4
200	78-83	6.0	4.1	15.4	14	6.1	15.4	15.4
200	84-89	6.0	4.1	15.4	14	6.1	15.4	15.4
200	89-95	5.9	4.0	15.4	14	6.1	15.4	15.4
200	96-102	5.8	3.9	15.4	14	6.1	15.4	15.4
200	102-109	5.7	3.7	15.4	14	6.1	15.4	15.4
200	109-115	5.7	3.7	15.4	14	6.1	15.4	15.4
200	115-122	5.6	3.5	15.4	14	6.1	15.4	15.4
200	122-128	5.5	3.4	15.4	14	6.1	15.4	15.4
200	128-134	5.5	3.4	15.4	14	6.1	15.4	15.4
200	134-140	5.4	3.3	15.4	14	6.1	15.4	15.4
200	140-146	5.3	3.2	15.4	14	6.1	15.4	15.4
200	146-152	5.3	3.1	15.4	14	6.1	15.4	15.4
200	152-158	5.2	3.0	15.4	14	6.1	15.4	15.4
200	157-163	5.2	2.9	15.4	14	6.1	15.4	15.4
200	163-169	5.1	2.8	15.4	14	6.1	15.4	15.4



Supports (Pipe Shoes)



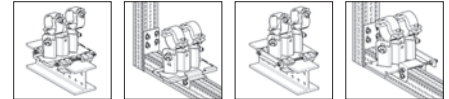
Pipe Shoe LC - HV + Guiding Set FS resp. Fixed Point Set XS

Pipe Shoe LC - HV + Guiding Bracket FW F resp. Fixed Point Bracket XW F

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

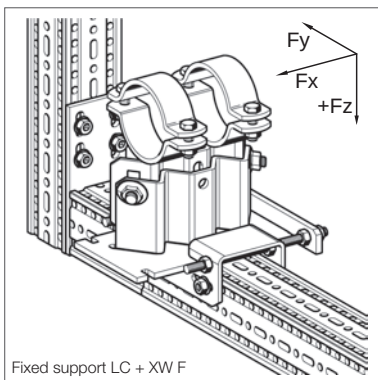
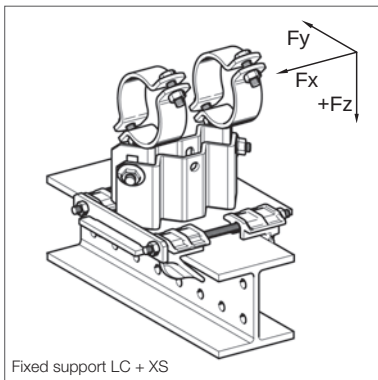
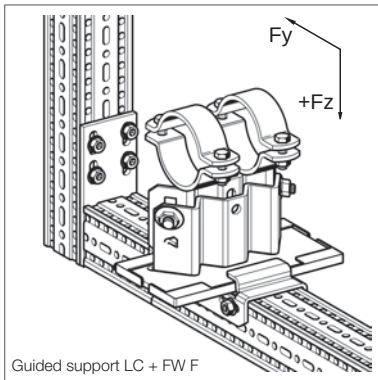
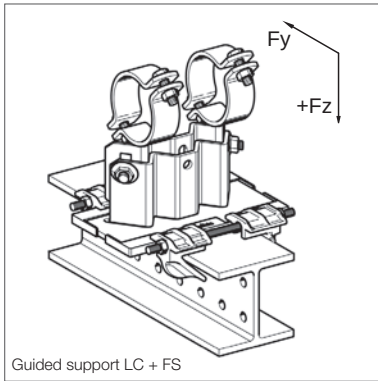
Please note the information on page 46 about the working loads.

* only for fixed supports



LC - HV	D (pipe) [mm]	F _x * [kN]	F _y [kN]	+ F _z [kN]	- F _z FS 80/120 [kN]	- F _z FW F 80 [kN]	- F _z XS 80/120 [kN]	- F _z XW F 80 [kN]
90	14-18	11.4	6.4	17	14	6.1	17	17
90	18-22	11.4	6.4	17	14	6.1	17	17
90	23-27	11.4	6.4	17	14	6.1	17	17
90	26-30	11.4	6.4	17	14	6.1	17	17
90	30-34	11.4	6.4	17	14	6.1	17	17
90	35-39	11.4	6.3	17	14	6.1	17	17
90	40-44	11.3	6.2	17	14	6.1	17	17
90	45-49	11.3	6.1	17	14	6.1	17	17
90	50-54	11.3	6.0	17	14	6.1	17	17
90	55-59	11.2	6.0	17	14	6.1	17	17
90	57-61	11.2	5.9	17	14	6.1	17	17
90	62-66	11.2	5.8	17	14	6.1	17	17
90	67-71	11.2	5.8	17	14	6.1	17	17
90	72-77	11.1	5.6	17	14	6.1	17	17
90	78-83	11.1	5.5	17	14	6.1	17	17
90	84-89	11.1	5.4	17	14	6.1	17	17
90	89-95	11.0	5.3	17	14	6.1	17	17
90	96-102	11.0	5.2	17	14	6.1	17	17
90	102-109	10.9	5.1	17	14	6.1	17	17
90	109-115	10.9	5.0	17	14	6.1	17	17
90	115-122	10.9	4.9	17	14	6.1	17	17
90	122-128	10.8	4.8	17	14	6.1	17	17
90	128-134	10.8	4.7	17	14	6.1	17	17
90	134-140	10.8	4.6	17	14	6.1	17	17
90	140-146	10.7	4.4	17	14	6.1	17	17
90	146-152	10.7	4.3	17	14	6.1	17	17
90	152-158	10.6	4.2	17	14	6.1	17	17
90	157-163	10.6	4.2	17	14	6.1	17	17
90	163-169	10.6	4.0	17	14	6.1	17	17
90	168-174	10.5	4.0	17	14	6.1	17	17
90	174-180	10.5	3.9	17	14	6.1	17	17
90	181-187	10.5	3.7	17	14	6.1	17	17
90	188-194	10.4	3.6	17	14	6.1	17	17
90	194-200	10.4	3.5	17	14	6.1	17	17
90	201-207	10.3	3.4	17	14	6.1	17	17
90	208-214	10.3	3.3	17	14	6.1	17	17
90	215-221	10.3	3.1	17	14	6.1	17	17
90	222-229	10.2	3.0	17	14	6.1	17	17
90	230-237	10.2	2.9	17	14	6.1	17	17
90	238-245	10.1	2.7	17	14	6.1	17	17
90	246-254	10.1	2.6	17	14	6.1	17	17
90	255-262	10.0	2.4	17	14	6.1	17	17
90	259-266	10.0	2.4	17	14	6.1	17	17
90	266-273	9.9	2.2	17	14	6.1	17	17
90	274-282	9.9	2.1	17	14	6.1	17	17
90	283-291	9.8	1.9	17	14	6.1	17	17
90	292-300	9.8	1.8	17	14	6.1	17	17
90	301-309	9.7	1.6	17	14	6.1	17	17
90	310-317	9.7	1.5	17	14	6.1	17	17
90	317-324	9.6	1.4	17	14	6.1	17	17

Supports (Pipe Shoes)



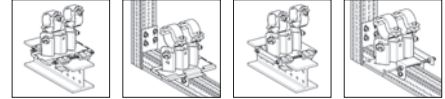
Pipe Shoe LC - HV + Guiding Set FS resp. Fixed Point Set XS

Pipe Shoe LC - HV + Guiding Bracket FW F resp. Fixed Point Bracket XW F

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

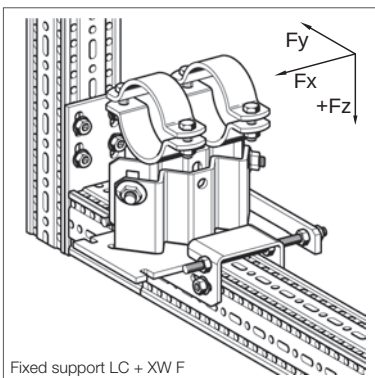
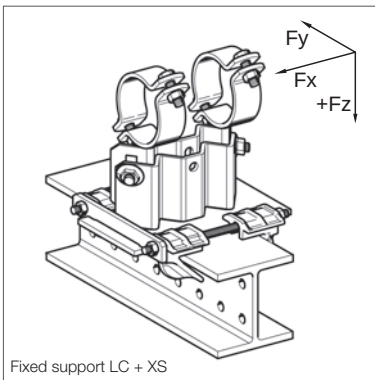
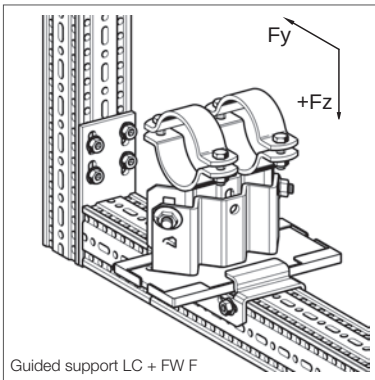
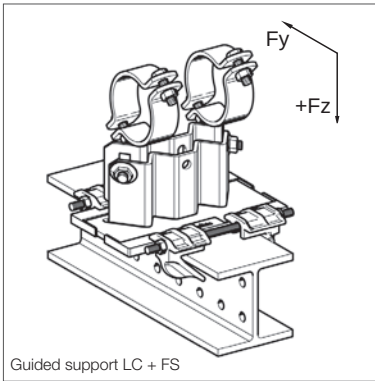
Please note the information on page 46 about the working loads.

* only for fixed supports



LC - HV	D (pipe) [mm]	F _x * [kN]	F _y [kN]	+ F _z [kN]	- F _z FS 80/120 [kN]	- F _z FW F 80 [kN]	- F _z XS 80/120 [kN]	- F _z XW F 80 [kN]
150	14-18	8.6	4.7	17	14	6.1	17	17
150	18-22	8.6	4.7	17	14	6.1	17	17
150	23-27	8.6	4.7	17	14	6.1	17	17
150	26-30	8.6	4.7	17	14	6.1	17	17
150	30-34	8.6	4.7	17	14	6.1	17	17
150	35-39	8.6	4.7	17	14	6.1	17	17
150	40-44	8.6	4.6	17	14	6.1	17	17
150	45-49	8.6	4.6	17	14	6.1	17	17
150	50-54	8.5	4.5	17	14	6.1	17	17
150	55-59	8.5	4.4	17	14	6.1	17	17
150	57-61	8.5	4.4	17	14	6.1	17	17
150	62-66	8.5	4.4	17	14	6.1	17	17
150	67-71	8.5	4.3	17	14	6.1	17	17
150	72-77	8.5	4.2	17	14	6.1	17	17
150	78-83	8.5	4.2	17	14	6.1	17	17
150	84-89	8.5	4.1	17	14	6.1	17	17
150	89-95	8.4	4.0	17	14	6.1	17	17
150	96-102	8.4	4.0	17	14	6.1	17	17
150	102-109	8.4	3.9	17	14	6.1	17	17
150	109-115	8.4	3.8	17	14	6.1	17	17
150	115-122	8.4	3.7	17	14	6.1	17	17
150	122-128	8.4	3.7	17	14	6.1	17	17
150	128-134	8.3	3.6	17	14	6.1	17	17
150	134-140	8.3	3.5	17	14	6.1	17	17
150	140-146	8.3	3.5	17	14	6.1	17	17
150	146-152	8.3	3.4	17	14	6.1	17	17
150	152-158	8.3	3.3	17	14	6.1	17	17
150	157-163	8.3	3.3	17	14	6.1	17	17
150	163-169	8.3	3.2	17	14	6.1	17	17
150	168-174	8.2	3.2	17	14	6.1	17	17
150	174-180	8.2	3.1	17	14	6.1	17	17
150	181-187	8.2	3.0	17	14	6.1	17	17
150	188-194	8.2	3.0	17	14	6.1	17	17
150	194-200	8.2	2.9	17	14	6.1	17	17
150	201-207	8.2	2.8	17	14	6.1	17	17
150	208-214	8.2	2.7	17	14	6.1	17	17
150	215-221	8.1	2.7	17	14	6.1	17	17
150	222-229	8.1	2.6	17	14	6.1	17	17
150	230-237	8.1	2.5	17	14	6.1	17	17
150	238-245	8.1	2.4	17	14	6.1	17	17
150	246-254	8.1	2.3	17	14	6.1	17	17
150	255-262	8.0	2.2	17	14	6.1	17	17
150	259-266	8.0	2.2	17	14	6.1	17	17
150	266-273	8.0	2.1	17	14	6.1	17	17
150	274-282	8.0	2.0	17	14	6.1	17	17
150	283-291	8.0	1.9	17	14	6.1	17	17
150	292-300	7.9	1.8	17	14	6.1	17	17
150	301-309	7.9	1.7	17	14	6.1	17	17
150	310-317	7.9	1.6	17	14	6.1	17	17
150	317-324	7.9	1.5	17	14	6.1	17	17





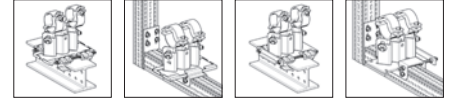
Pipe Shoe LC - HV + Guiding Set FS resp. Fixed Point Set XS

Pipe Shoe LC - HV + Guiding Bracket FW F resp. Fixed Point Bracket XW F

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

Please note the information on page 46 about the working loads.

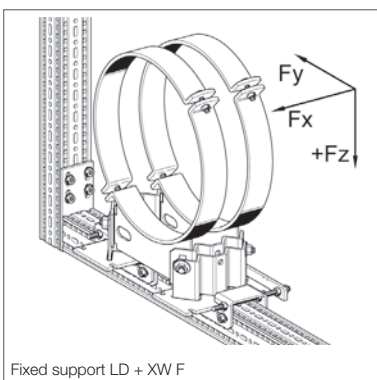
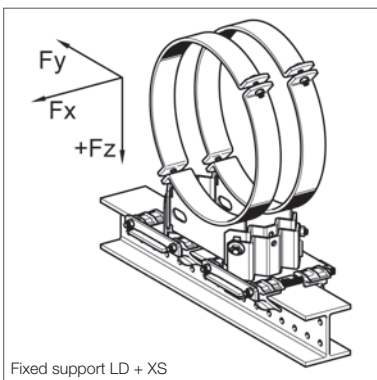
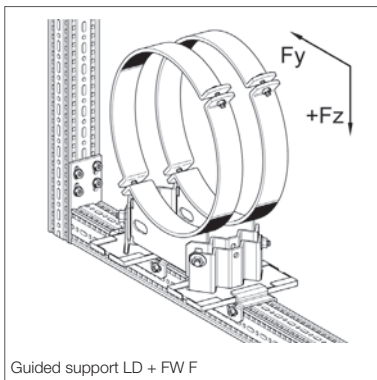
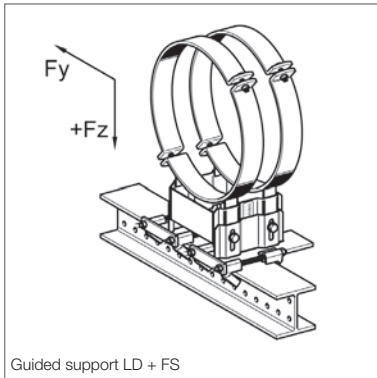
* only for fixed supports



LC - HV	D (pipe) [mm]	F _x * [kN]	F _y [kN]	+ F _z [kN]	- F _z FS 80/120 [kN]	- F _z FW F 80 [kN]	- F _z XS 80/120 [kN]	- F _z XW F 80 [kN]
200	14-18	7.4	5.0	17	14	6.1	17	17
200	18-22	7.4	5.0	17	14	6.1	17	17
200	23-27	7.4	5.0	17	14	6.1	17	17
200	26-30	7.4	5.0	17	14	6.1	17	17
200	30-34	7.4	5.0	17	14	6.1	17	17
200	35-39	7.4	4.9	17	14	6.1	17	17
200	40-44	7.4	4.9	17	14	6.1	17	17
200	45-49	7.4	4.8	17	14	6.1	17	17
200	50-54	7.4	4.8	17	14	6.1	17	17
200	55-59	7.4	4.7	17	14	6.1	17	17
200	57-61	7.4	4.7	17	14	6.1	17	17
200	62-66	7.3	4.6	17	14	6.1	17	17
200	67-71	7.3	4.6	17	14	6.1	17	17
200	72-77	7.3	4.5	17	14	6.1	17	17
200	78-83	7.3	4.4	17	14	6.1	17	17
200	84-89	7.3	4.4	17	14	6.1	17	17
200	89-95	7.3	4.3	17	14	6.1	17	17
200	96-102	7.3	4.2	17	14	6.1	17	17
200	102-109	7.3	4.1	17	14	6.1	17	17
200	109-115	7.3	4.1	17	14	6.1	17	17
200	115-122	7.3	4.0	17	14	6.1	17	17
200	122-128	7.3	3.9	17	14	6.1	17	17
200	128-134	7.2	3.9	17	14	6.1	17	17
200	134-140	7.2	3.8	17	14	6.1	17	17
200	140-146	7.2	3.7	17	14	6.1	17	17
200	146-152	7.2	3.6	17	14	6.1	17	17
200	152-158	7.2	3.6	17	14	6.1	17	17
200	157-163	7.2	3.5	17	14	6.1	17	17
200	163-169	7.2	3.5	17	14	6.1	17	17
200	168-174	7.2	3.4	17	14	6.1	17	17
200	174-180	7.2	3.3	17	14	6.1	17	17
200	181-187	7.2	3.2	17	14	6.1	17	17
200	188-194	7.2	3.2	17	14	6.1	17	17
200	194-200	7.1	3.1	17	14	6.1	17	17
200	201-207	7.1	3.0	17	14	6.1	17	17
200	208-214	7.1	2.9	17	14	6.1	17	17
200	215-221	7.1	2.9	17	14	6.1	17	17
200	222-229	7.1	2.8	17	14	6.1	17	17
200	230-237	7.1	2.7	17	14	6.1	17	17
200	238-245	7.1	2.6	17	14	6.1	17	17
200	246-254	7.1	2.5	17	14	6.1	17	17
200	255-262	7.0	2.4	17	14	6.1	17	17
200	259-266	7.0	2.3	17	14	6.1	17	17
200	266-273	7.0	2.3	17	14	6.1	17	17
200	274-282	7.0	2.2	17	14	6.1	17	17
200	283-291	7.0	2.1	17	14	6.1	17	17
200	292-300	7.0	2.0	17	14	6.1	17	17
200	301-309	7.0	1.8	17	14	6.1	17	17
200	310-317	7.0	1.8	17	14	6.1	17	17
200	317-324	7.0	1.7	17	14	6.1	17	17



Supports (Pipe Shoes)



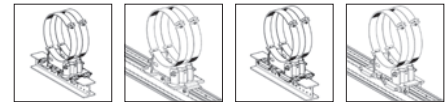
Pipe Shoe LD - HV + 2 x Guiding Set FS resp. 2 x Fixed Point Set XS

Pipe Shoe LD - HV + 2 x Guiding Bracket FW F resp. 2 x Fixed Point Bracket XW F

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

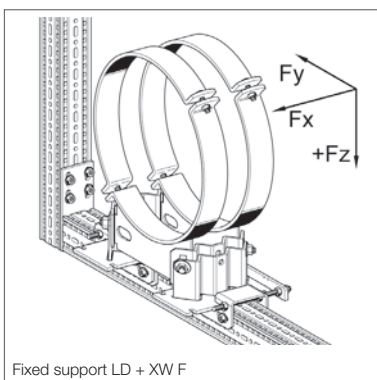
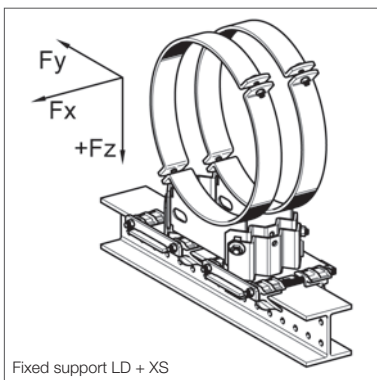
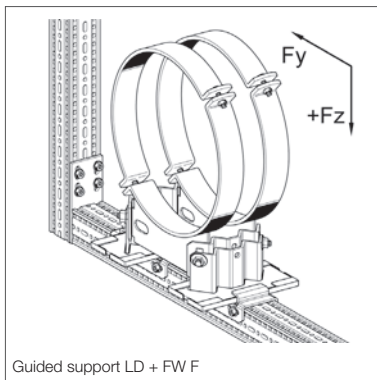
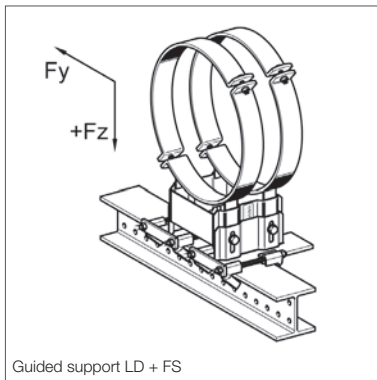
Please note the information on page 46 about the working loads.

* only for fixed supports



LD - HV	D (pipe) [mm]	F _x * [kN]	F _y [kN]	+ F _z [kN]	- F _z FS 80/120 [kN]	- F _z FW F 80 [kN]	- F _z XS 80/120 [kN]	- F _z XW F 80 [kN]
90	215-221	37.2	12.9	32.8	28	12.2	32.8	32.8
90	222-229	37.2	12.9	32.8	28	12.2	32.8	32.8
90	230-237	37.2	12.9	32.8	28	12.2	32.8	32.8
90	238-245	37.2	12.9	32.8	28	12.2	32.8	32.8
90	246-254	37.2	12.9	32.8	28	12.2	32.8	32.8
90	255-262	37.2	12.9	32.8	28	12.2	32.8	32.8
90	259-266	37.2	12.9	32.8	28	12.2	32.8	32.8
90	266-273	37.2	12.9	32.8	28	12.2	32.8	32.8
90	274-282	37.2	12.9	32.8	28	12.2	32.8	32.8
90	283-291	37.2	12.9	32.8	28	12.2	32.8	32.8
90	292-300	37.2	12.9	32.8	28	12.2	32.8	32.8
90	301-309	37.2	12.9	32.8	28	12.2	32.8	32.8
90	310-317	37.2	12.9	32.8	28	12.2	32.8	32.8
90	317-324	37.2	12.9	32.8	28	12.2	32.8	32.8
90	325-333	37.2	12.9	32.8	28	12.2	32.8	32.8
90	334-342	37.2	12.9	32.8	28	12.2	32.8	32.8
90	343-350	37.2	12.9	32.8	28	12.2	32.8	32.8
90	349-356	37.2	13.1	32.8	28	12.2	32.8	32.8
90	358-365	36.2	12.7	32.8	28	12.2	32.8	32.8
90	366-374	35.2	12.5	32.8	28	12.2	32.8	32.8
90	375-382	34.3	12.3	32.8	28	12.2	32.8	32.8
90	381-388	33.7	12.2	32.8	28	12.2	32.8	32.8
90	389-396	32.8	12.0	32.8	28	12.2	32.8	32.8
90	397-407	31.6	11.9	32.8	28	12.2	32.8	32.8
90	408-418	30.4	11.5	32.8	28	12.2	32.8	32.8
90	419-429	29.2	11.2	32.8	28	12.2	32.8	32.8
90	430-440	28.0	11.0	32.8	28	12.2	32.8	32.8
90	441-451	26.8	10.7	32.8	28	12.2	32.8	32.8
90	447-457	26.2	10.6	32.8	28	12.2	32.8	32.8
90	458-468	25.0	10.3	32.8	28	12.2	32.8	32.8
90	467-477	24.0	10.1	32.8	28	12.2	32.8	32.8
90	477-487	22.9	9.9	32.8	28	12.2	32.8	32.8
90	488-498	21.7	9.6	32.8	28	12.2	32.8	32.8
90	498-508	20.8	9.4	32.8	28	12.2	32.8	32.8
90	509-519	19.4	9.1	32.8	28	12.2	32.8	32.8
90	520-530	18.2	8.9	32.8	28	12.2	32.8	32.8
90	531-541	17.0	8.6	32.8	28	12.2	32.8	32.8
90	542-552	15.8	8.3	32.8	28	12.2	32.8	32.8
90	553-563	14.6	8.1	32.8	28	12.2	32.8	32.8
90	564-574	13.4	7.8	32.8	28	12.2	32.8	32.8
90	575-585	12.2	7.6	32.8	28	12.2	32.8	32.8
90	586-596	11.1	7.3	32.8	28	12.2	32.8	32.8
90	594-604	10.2	7.1	32.8	28	12.2	32.8	32.8
90	600-610	9.5	7.2	32.8	28	12.2	32.8	32.8

Supports (Pipe Shoes)



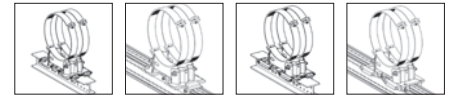
Pipe Shoe LD - HV + 2 x Guiding Set FS resp. 2 x Fixed Point Set XS

Pipe Shoe LD - HV + 2 x Guiding Bracket FW F resp. 2 x Fixed Point Bracket XW F

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

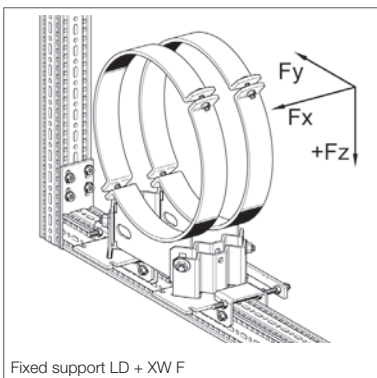
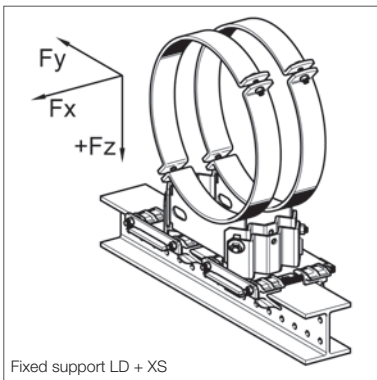
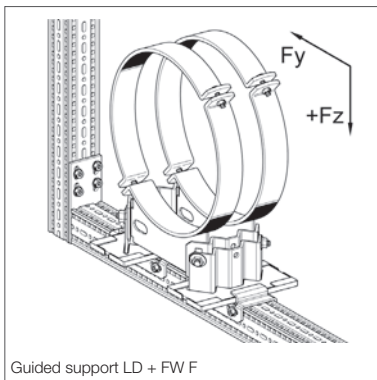
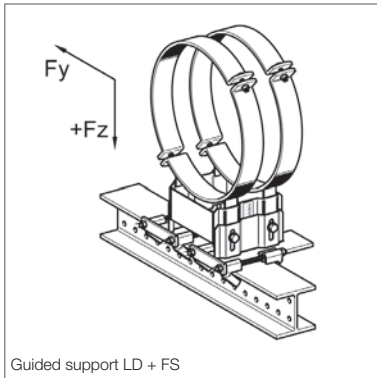
Please note the information on page 46 about the working loads.

* only for fixed supports



LD - HV	D (pipe) [mm]	F _x * [kN]	F _y [kN]	+ F _z [kN]	- F _z FS 80/120 [kN]	- F _z FW F 80 [kN]	- F _z XS 80/120 [kN]	- F _z XW F 80 [kN]
150	215-221	30.8	12.7	32.8	28	12.2	32.8	32.8
150	222-229	30.8	12.7	32.8	28	12.2	32.8	32.8
150	230-237	30.8	12.7	32.8	28	12.2	32.8	32.8
150	238-245	30.8	12.7	32.8	28	12.2	32.8	32.8
150	246-254	30.8	12.7	32.8	28	12.2	32.8	32.8
150	255-262	30.8	12.7	32.8	28	12.2	32.8	32.8
150	259-266	30.8	12.7	32.8	28	12.2	32.8	32.8
150	266-273	30.8	12.7	32.8	28	12.2	32.8	32.8
150	274-282	30.8	12.7	32.8	28	12.2	32.8	32.8
150	283-291	30.8	12.7	32.8	28	12.2	32.8	32.8
150	292-300	30.8	12.7	32.8	28	12.2	32.8	32.8
150	301-309	30.8	12.7	32.8	28	12.2	32.8	32.8
150	310-317	30.8	12.7	32.8	28	12.2	32.8	32.8
150	317-324	30.8	12.7	32.8	28	12.2	32.8	32.8
150	325-333	30.8	12.7	32.8	28	12.2	32.8	32.8
150	334-342	30.8	12.7	32.8	28	12.2	32.8	32.8
150	343-350	30.8	12.7	32.8	28	12.2	32.8	32.8
150	349-356	30.8	12.9	32.8	28	12.2	32.8	32.8
150	358-365	30.8	12.4	32.8	28	12.2	32.8	32.8
150	366-374	29.2	12.2	32.8	28	12.2	32.8	32.8
150	375-382	28.5	12.0	32.8	28	12.2	32.8	32.8
150	381-388	28.0	11.8	32.8	28	12.2	32.8	32.8
150	389-396	27.2	11.6	32.8	28	12.2	32.8	32.8
150	397-407	26.3	11.5	32.8	28	12.2	32.8	32.8
150	408-418	25.3	11.1	32.8	28	12.2	32.8	32.8
150	419-429	24.3	10.8	32.8	28	12.2	32.8	32.8
150	430-440	23.3	10.5	32.8	28	12.2	32.8	32.8
150	441-451	22.3	10.2	32.8	28	12.2	32.8	32.8
150	447-457	21.8	10.0	32.8	28	12.2	32.8	32.8
150	458-468	20.8	9.8	32.8	28	12.2	32.8	32.8
150	467-477	20.0	9.5	32.8	28	12.2	32.8	32.8
150	477-487	19.1	9.3	32.8	28	12.2	32.8	32.8
150	488-498	18.1	9.0	32.8	28	12.2	32.8	32.8
150	498-508	17.3	8.8	32.8	28	12.2	32.8	32.8
150	509-519	16.2	8.4	32.8	28	12.2	32.8	32.8
150	520-530	15.2	8.1	32.8	28	12.2	32.8	32.8
150	531-541	14.3	7.9	32.8	28	12.2	32.8	32.8
150	542-552	13.3	7.6	32.8	28	12.2	32.8	32.8
150	553-563	12.3	7.3	32.8	28	12.2	32.8	32.8
150	564-574	11.3	7.0	32.8	28	12.2	32.8	32.8
150	575-585	10.3	6.7	32.8	28	12.2	32.8	32.8
150	586-596	9.3	6.4	32.8	28	12.2	32.8	32.8
150	594-604	8.6	6.2	32.8	28	12.2	32.8	32.8
150	600-610	8.1	6.3	32.8	28	12.2	32.8	32.8

Supports (Pipe Shoes)



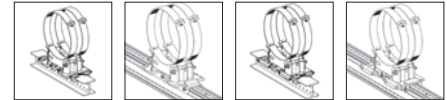
Pipe Shoe LD - HV + 2 x Guiding Set FS resp. 2 x Fixed Point Set XS

Pipe Shoe LD - HV + 2 x Guiding Bracket FW F resp. 2 x Fixed Point Bracket XW F

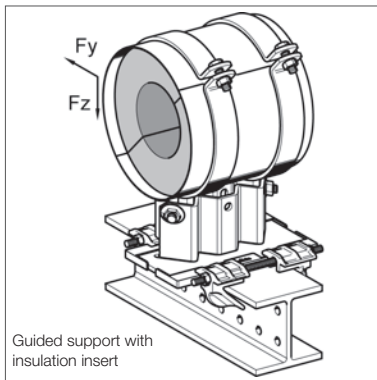
Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

Please note the information on page 46 about the working loads.

* only for fixed supports



LD - HV	D (pipe) [mm]	F _x * [kN]	F _y [kN]	+ F _z [kN]	- F _z FS 80/120 [kN]	- F _z FW F 80 [kN]	- F _z XS 80/120 [kN]	- F _z XW F 80 [kN]
200	215-221	24.6	11.1	32.8	28	12.2	32.8	32.8
200	222-229	24.6	11.1	32.8	28	12.2	32.8	32.8
200	230-237	24.6	11.1	32.8	28	12.2	32.8	32.8
200	238-245	24.6	11.1	32.8	28	12.2	32.8	32.8
200	246-254	24.6	11.1	32.8	28	12.2	32.8	32.8
200	255-262	24.6	11.1	32.8	28	12.2	32.8	32.8
200	259-266	24.6	11.1	32.8	28	12.2	32.8	32.8
200	266-273	24.6	11.1	32.8	28	12.2	32.8	32.8
200	274-282	24.6	11.1	32.8	28	12.2	32.8	32.8
200	283-291	24.6	11.1	32.8	28	12.2	32.8	32.8
200	292-300	24.6	11.1	32.8	28	12.2	32.8	32.8
200	301-309	24.6	11.1	32.8	28	12.2	32.8	32.8
200	310-317	24.6	11.1	32.8	28	12.2	32.8	32.8
200	317-324	24.6	11.1	32.8	28	12.2	32.8	32.8
200	325-333	24.6	11.1	32.8	28	12.2	32.8	32.8
200	334-342	24.6	11.1	32.8	28	12.2	32.8	32.8
200	343-350	24.6	11.1	32.8	28	12.2	32.8	32.8
200	349-356	25.0	11.3	32.8	28	12.2	32.8	32.8
200	358-365	24.1	10.9	32.8	28	12.2	32.8	32.8
200	366-374	23.5	10.8	32.8	28	12.2	32.8	32.8
200	375-382	23.1	10.6	32.8	28	12.2	32.8	32.8
200	381-388	22.7	10.5	32.8	28	12.2	32.8	32.8
200	389-396	22.2	10.3	32.8	28	12.2	32.8	32.8
200	397-407	21.6	10.2	32.8	28	12.2	32.8	32.8
200	408-418	20.9	9.8	32.8	28	12.2	32.8	32.8
200	419-429	20.3	9.6	32.8	28	12.2	32.8	32.8
200	430-440	19.6	9.4	32.8	28	12.2	32.8	32.8
200	441-451	19.0	9.2	32.8	28	12.2	32.8	32.8
200	447-457	18.6	9.0	32.8	28	12.2	32.8	32.8
200	458-468	17.9	8.8	32.8	28	12.2	32.8	32.8
200	467-477	17.4	8.6	32.8	28	12.2	32.8	32.8
200	477-487	16.8	8.4	32.8	28	12.2	32.8	32.8
200	488-498	16.1	8.2	32.8	28	12.2	32.8	32.8
200	498-508	15.7	8.1	32.8	28	12.2	32.8	32.8
200	509-519	14.9	7.8	32.8	28	12.2	32.8	32.8
200	520-530	14.2	7.5	32.8	28	12.2	32.8	32.8
200	531-541	13.6	7.3	32.8	28	12.2	32.8	32.8
200	542-552	12.9	7.1	32.8	28	12.2	32.8	32.8
200	553-563	12.3	6.9	32.8	28	12.2	32.8	32.8
200	564-574	11.6	6.6	32.8	28	12.2	32.8	32.8
200	575-585	11.0	6.4	32.8	28	12.2	32.8	32.8
200	586-596	10.3	6.2	32.8	28	12.2	32.8	32.8
200	594-604	9.8	6.0	32.8	28	12.2	32.8	32.8
200	600-610	9.5	6.1	32.8	28	12.2	32.8	32.8

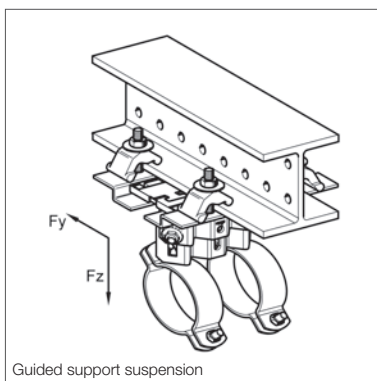


Working loads for Supports with insulation insert and suspension

Pipe Shoe LK - HV + Guiding Set FS 80/120

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.
Please note the information on page 46 about the working loads.

LK - HV	D (pipe) [mm]	F _y [kN]	+ F _z [kN]
150	33,7	3.1	3.1
150	42,4	3.8	3.8
150	48,3	4.3	4.3
150	60,3	4.0	3.9
150	76,1	2.8	2.8
150	88,9	2.5	2.4
150	114,3	4.5	14.0
150	139,7	4.1	14.0
150	168,3	3.6	14.0
150	219,1	2.8	14.0
150	273,0	1.9	14.0
150	323,9	0.4	14.0

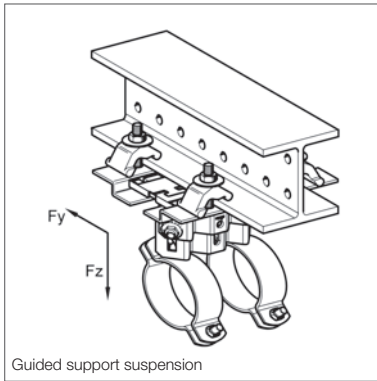


Pipe Shoe LA / LC / LD - HV 90 + Guiding Set FS Z 80/120

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.
Please note the information on page 46 about the working loads.

LA / LC / LD - HV	D (pipe) [mm]	F _y [kN]	+ F _z [kN]
90	14-18	5.0	10.0
90	18-22	4.9	10.0
90	23-27	4.9	10.0
90	26-30	4.8	10.0
90	30-34	4.8	10.0
90	35-39	4.7	10.0
90	40-44	4.7	10.0
90	45-49	4.6	10.0
90	50-54	4.5	10.0
90	55-59	4.5	10.0
90	57-61	4.5	10.0
90	62-66	4.4	10.0
90	67-71	4.3	10.0
90	72-77	4.3	10.0
90	78-83	4.2	10.0
90	84-89	4.1	10.0
90	89-95	4.1	10.0
90	96-102	4.0	10.0
90	102-109	3.9	10.0
90	109-115	3.8	10.0
90	115-122	3.8	10.0
90	122-128	3.7	10.0
90	128-134	3.6	10.0
90	134-140	3.5	10.0
90	140-146	3.5	10.0

LA / LC / LD - HV	D (pipe) [mm]	F _y [kN]	+ F _z [kN]
90	146-152	3.4	10.0
90	152-158	3.3	10.0
90	157-163	3.3	10.0
90	163-169	3.2	10.0
90	168-174	3.2	10.0
90	174-180	3.1	10.0
90	181-187	3.0	10.0
90	188-194	2.9	10.0
90	194-200	2.9	10.0
90	201-207	2.8	10.0
90	208-214	2.7	10.0
90	215-221	2.6	10.0
90	222-229	2.5	10.0
90	230-237	2.4	10.0
90	238-245	2.3	10.0
90	246-254	2.2	10.0
90	255-262	2.1	10.0
90	259-266	2.1	10.0
90	266-273	2.0	10.0
90	274-282	1.9	10.0
90	283-291	1.8	10.0
90	292-300	1.7	10.0
90	301-309	1.6	10.0
90	310-317	1.5	10.0
90	317-324	1.4	10.0



Working loads for Supports with insulation insert and suspension

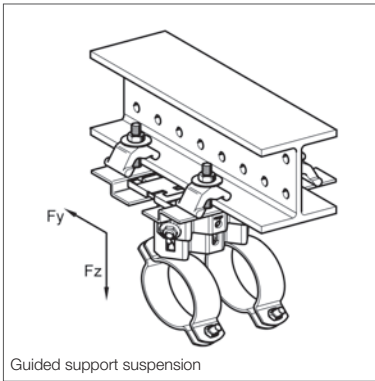
Pipe Shoe LA / LC / LD - HV 150 + Guiding Set FS Z 80/120

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

Please note the information on page 46 about the working loads.

LA / LC / LD - HV	D (pipe) [mm]	F_y [kN]	+ F_z [kN]
150	14-18	3.3	10.0
150	18-22	3.2	10.0
150	23-27	3.2	10.0
150	26-30	3.2	10.0
150	30-34	3.1	10.0
150	35-39	3.1	10.0
150	40-44	3.1	10.0
150	45-49	3.1	10.0
150	50-54	3.0	10.0
150	55-59	3.0	10.0
150	57-61	3.0	10.0
150	62-66	2.9	10.0
150	67-71	2.9	10.0
150	72-77	2.9	10.0
150	78-83	2.8	10.0
150	84-89	2.8	10.0
150	89-95	2.8	10.0
150	96-102	2.7	10.0
150	102-109	2.7	10.0
150	109-115	2.6	10.0
150	115-122	2.6	10.0
150	122-128	2.6	10.0
150	128-134	2.5	10.0
150	134-140	2.5	10.0
150	140-146	2.4	10.0

LA / LC / LD - HV	D (pipe) [mm]	F_y [kN]	+ F_z [kN]
150	146-152	2.4	10.0
150	152-158	2.4	10.0
150	157-163	2.3	10.0
150	163-169	2.3	10.0
150	168-174	2.3	10.0
150	174-180	2.2	10.0
150	181-187	2.2	10.0
150	188-194	2.1	10.0
150	194-200	2.1	10.0
150	201-207	2.1	10.0
150	208-214	2.0	10.0
150	215-221	2.0	10.0
150	222-229	1.9	10.0
150	230-237	1.9	10.0
150	238-245	1.8	10.0
150	246-254	1.8	10.0
150	255-262	1.7	10.0
150	259-266	1.7	10.0
150	266-273	1.6	10.0
150	274-282	1.6	10.0
150	283-291	1.5	10.0
150	292-300	1.5	10.0
150	301-309	1.4	10.0
150	310-317	1.4	10.0
150	317-324	1.3	10.0



Working loads for Supports with insulation insert and suspension

Pipe Shoe LA / LC / LD - HV 200 + Guiding Set FS Z 80/120

Basis of assessment EC 3, working loads for Pipe Shoes as delivered.

Please note the information on page 46 about the working loads.

LA / LC / LD - HV	D (pipe) [mm]	F_y [kN]	+ F_z [kN]
200	14-18	2.5	10.0
200	18-22	2.5	10.0
200	23-27	2.5	10.0
200	26-30	2.5	10.0
200	30-34	2.5	10.0
200	35-39	2.4	10.0
200	40-44	2.4	10.0
200	45-49	2.4	10.0
200	50-54	2.4	10.0
200	55-59	2.3	10.0
200	57-61	2.3	10.0
200	62-66	2.3	10.0
200	67-71	2.3	10.0
200	72-77	2.3	10.0
200	78-83	2.2	10.0
200	84-89	2.2	10.0
200	89-95	2.2	10.0
200	96-102	2.2	10.0
200	102-109	2.1	10.0
200	109-115	2.1	10.0
200	115-122	2.1	10.0
200	122-128	2.0	10.0
200	128-134	2.0	10.0
200	134-140	2.0	10.0
200	140-146	2.0	10.0

LA / LC / LD - HV	D (pipe) [mm]	F_y [kN]	+ F_z [kN]
200	146-152	1.9	10.0
200	152-158	1.9	10.0
200	157-163	1.9	10.0
200	163-169	1.9	10.0
200	168-174	1.9	10.0
200	174-180	1.8	10.0
200	181-187	1.8	10.0
200	188-194	1.8	10.0
200	194-200	1.7	10.0
200	201-207	1.7	10.0
200	208-214	1.7	10.0
200	215-221	1.6	10.0
200	222-229	1.6	10.0
200	230-237	1.6	10.0
200	238-245	1.5	10.0
200	246-254	1.5	10.0
200	255-262	1.5	10.0
200	259-266	1.5	10.0
200	266-273	1.4	10.0
200	274-282	1.4	10.0
200	283-291	1.3	10.0
200	292-300	1.3	10.0
200	301-309	1.3	10.0
200	310-317	1.2	10.0
200	317-324	1.2	10.0