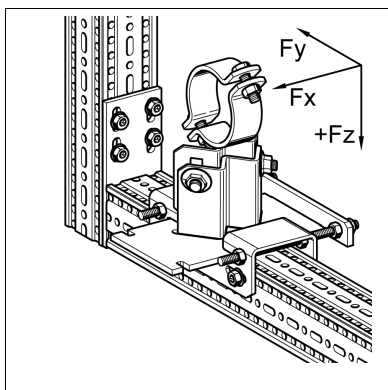
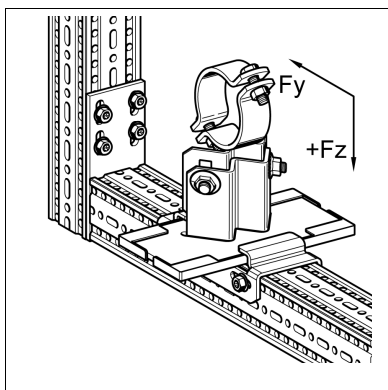
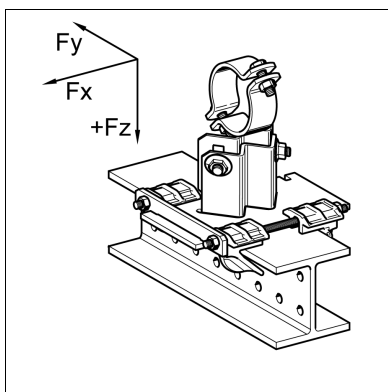
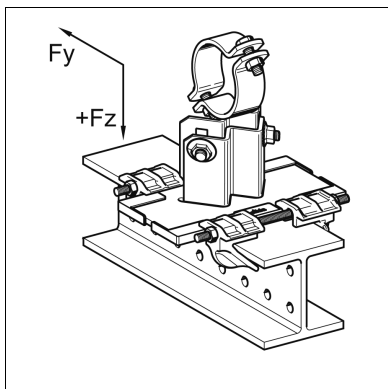




Working loads for Pipe Shoe LA - HV

Basis for assessment EC 3, working loads for supports at their delivered height (90 mm, 150 mm or 200 mm)

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.

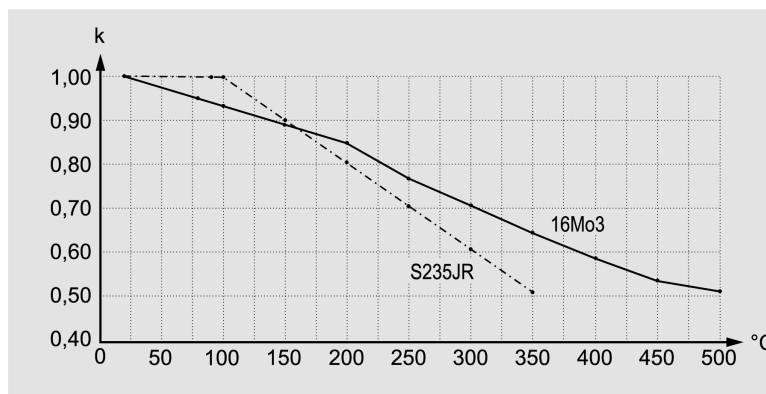
Axial fixed point forces **F_x** can only be attained by the professional use of anti-slip protections (e.g. cleats, stoppers). Those have to be planned during the design of the piping and are on the responsibility of the piping manufacturer. To use our fixed point sets, fixed point angles and axial 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 an 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.

Material-dependent temperature correction values (k)



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

LA - HV	D [mm]	DN	Fx [kN]	Fy [kN]	+ Fz [kN]	- Fz FS 80/120 [kN]	- Fz FW F 80 [kN]	- Fz XS 80/120 [kN]	- Fz XW F 80 [kN]
90	14-18		9.7	7.4	15.4	14	6.1	15.4	15.4
90	18-22	15	9.7	7.4	15.4	14	6.1	15.4	15.4
90	23-27	20	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	25	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	32	9.4	7.1	15.4	14	6.1	15.4	15.4
90	45-49	40	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	50	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	65	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	80	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	100	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	125	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	150	5.4	3.6	15.4	14	6.1	15.4	15.4

Basis for assessment EC 3, working loads for Supports in delivery status

Sliding Support LA - HV + Guiding Set FS resp. Fixed Point Set XS

Sliding Support LA - HV + Guiding Bracket FW F 80 resp. Fixed Point Bracket XW F 80

LA - HV	D mm	DN	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	15	8.1	5.4	15.4	14	6.1	15.4	15.4
150	23-27	20	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	25	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	32	8	5.2	15.4	14	6.1	15.4	15.4
150	45-49	40	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	50	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	65	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	80	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	100	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	125	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	150	6.1	2.6	15.4	14	6.1	15.4	15.4

Basis for assessment EC 3, working loads for Supports in delivery status
 Sliding Support LA - HV + Guiding Set FS resp. Fixed Point Set XS
 Sliding Support LA - HV + Guiding Bracket FW F 80 resp. Fixed Point Bracket
 XW F 80

LA - HV	D mm	DN	Fx [kN]	Fy [kN]	+ Fz [kN]	- Fz FS 80/120 [kN]	- Fz FW F 80 [kN]	- Fz XS 80/120 [kN]	- Fz XW F 80 [kN]
200	14-18		6.6	4.9	15.4	14	6.1	15.4	15.4
200	18-22	15	6.6	4.9	15.4	14	6.1	15.4	15.4
200	23-27	20	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	25	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	32	6.4	4.7	15.4	14	6.1	15.4	15.4
200	45-49	40	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	50	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	65	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	80	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	100	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	125	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	150	5.1	2.8	15.4	14	6.1	15.4	15.4

Basis for assessment EC 3, working loads for Supports in delivery status

Sliding Support LA - HV + Guiding Set FS resp. Fixed Point Set XS

Sliding Support LA - HV + Guiding Bracket FW F 80 resp. Fixed Point Bracket XW F 80