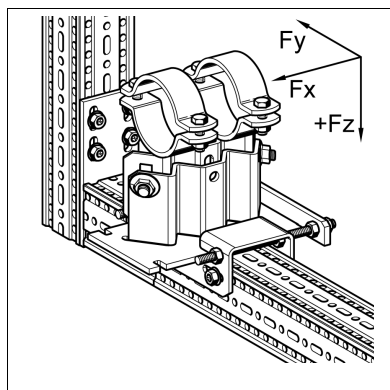
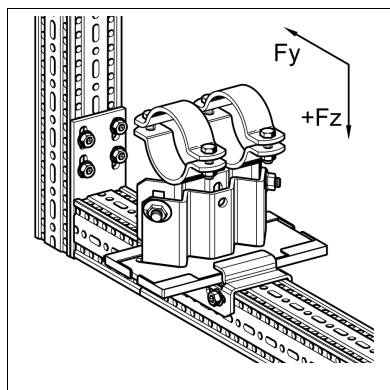
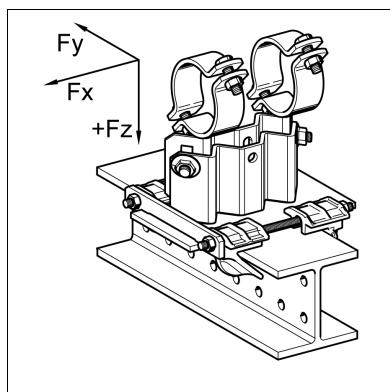
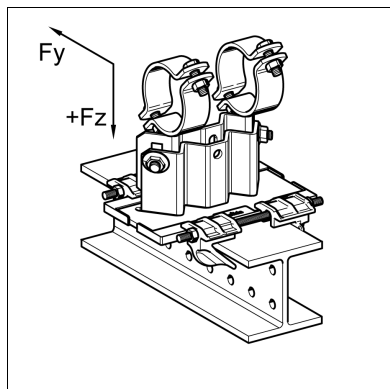




Working loads for Pipe Shoe LC - HV

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.

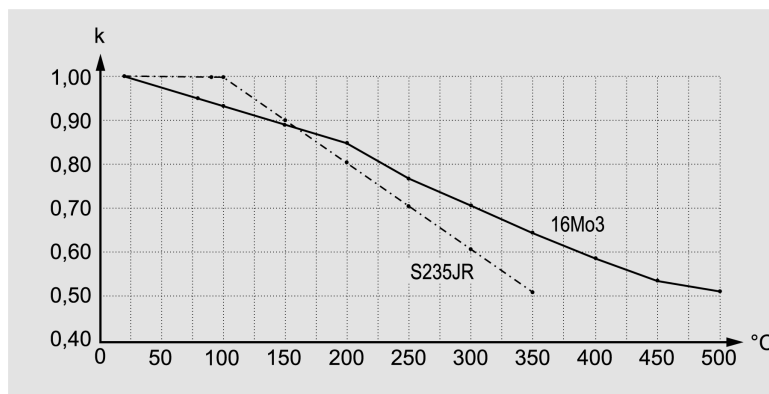
Axial fixed point forces **F_x** can only be attained by the professional use of anti-slip protections (e.g. cleats, stoppers). Those have to be planned during the design of the piping and are on the responsibility of the piping manufacturer. To use our fixed point sets, fixed point angles and axial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

LC - 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]
90	14-18		11.4	6.4	17	14	6.1	17	17
90	18-22	15	11.4	6.4	17	14	6.1	17	17
90	23-27	20	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	25	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	32	11.3	6.2	17	14	6.1	17	17
90	45-49	40	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	50	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	65	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	80	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	100	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	125	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	150	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	200	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	250	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	300	9.6	1.4	17	14	6.1	17	17

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

LC - 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		8.6	4.7	17	14	6.1	17	17
150	18-22	15	8.6	4.7	17	14	6.1	17	17
150	23-27	20	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	25	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	32	8.6	4.6	17	14	6.1	17	17
150	45-49	40	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	50	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	65	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	100	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	125	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	150-158		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	150	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	200	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	250	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	300	7.9	1.5	17	14	6.1	17	17

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

LC - 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]
200	14-18		7.4	5.0	17	14	6.1	17	17
200	18-22	15	7.4	5.0	17	14	6.1	17	17
200	23-27	20	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	25	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	32	7.4	4.9	17	14	6.1	17	17
200	45-49	40	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	50	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	65	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	80	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	100	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	125	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	150	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	200	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	250	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	300	7.0	1.7	17	14	6.1	17	17

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