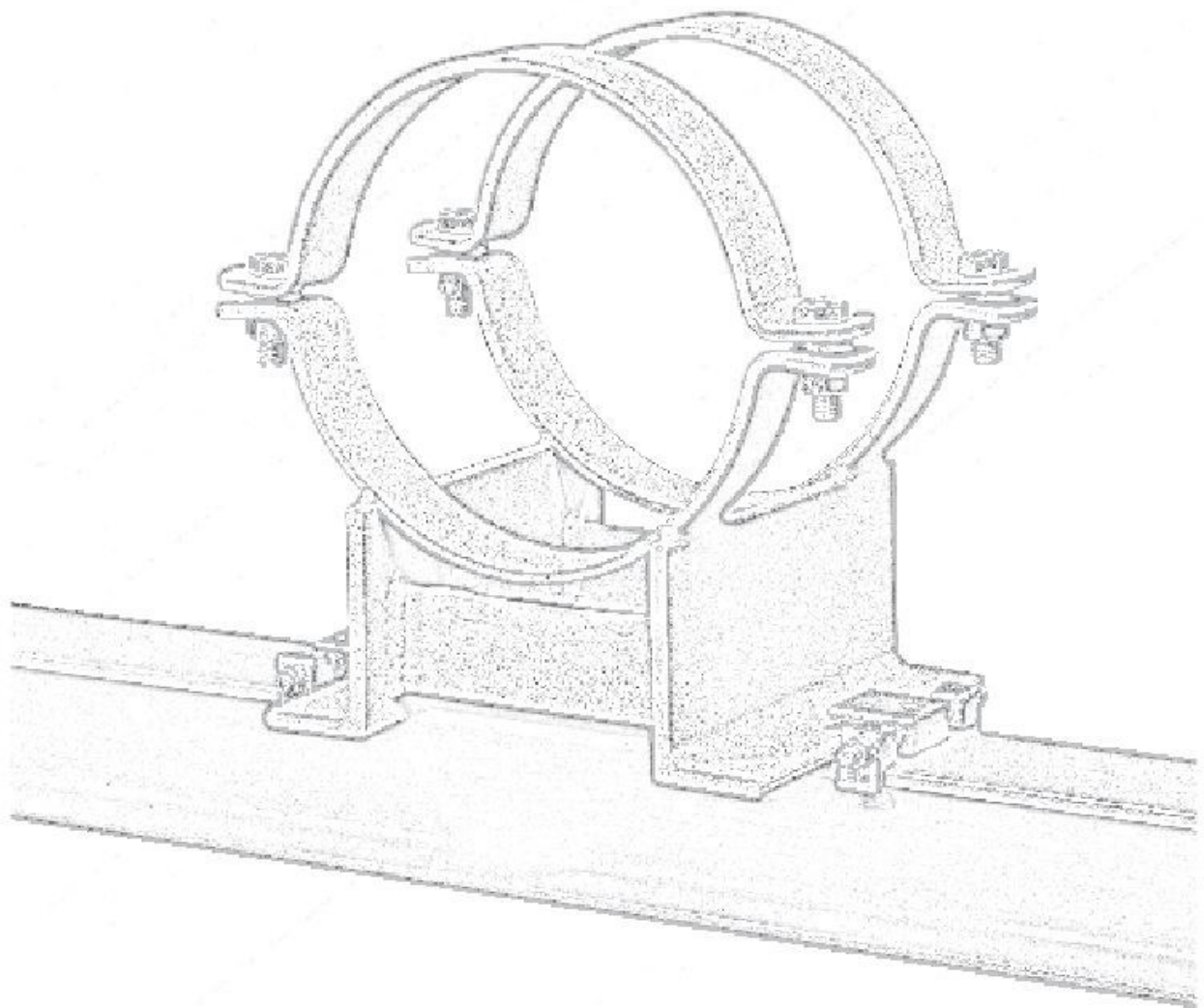
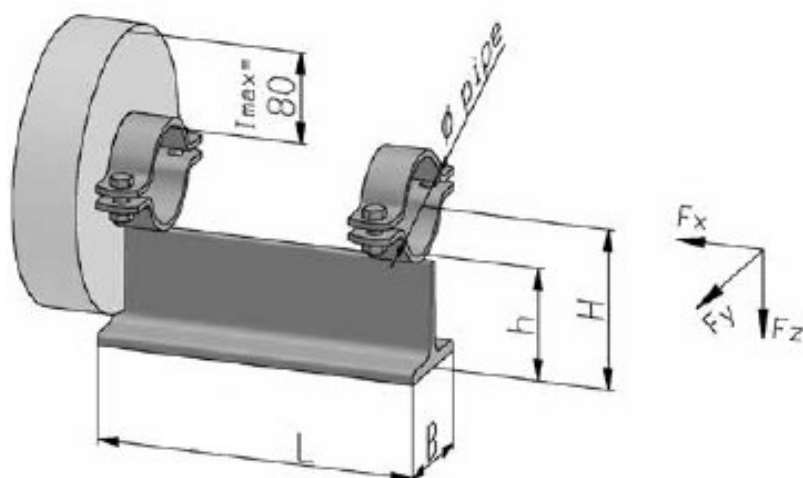


SLIDING SUPPORTS



**Sliding supports
Type GLT 100
DN 15 - DN 200**



Sliding support - Type GLT 100

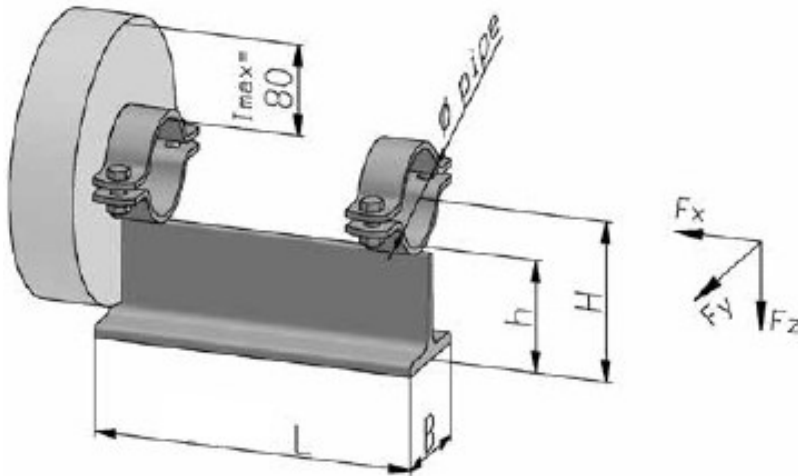
DN 15 - DN 200

Material	S235JR DIN EN 10025-2, temperature up to 350°C
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamp type RA to DIN 3567

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) at 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
GLT-100/022-R-__	21,3	100	300	105	116	1,2	1,2	4,0	5,5	*Z
GLT-100/025-R-__	25,0	100	300	105	118	1,2	1,2	4,0	5,5	*Z
GLT-100/027-R-__	26,9	100	300	105	119	1,2	1,2	4,0	5,5	*Z
GLT-100/030-R-__	30,0	100	300	105	120	1,2	1,2	4,0	5,6	*Z
GLT-100/034-R-__	33,7	100	300	105	122	1,2	1,2	4,0	5,6	*Z
GLT-100/038-R-__	38,0	100	300	105	124	1,2	1,2	4,0	5,6	*Z
GLT-100/043-R-__	42,4	100	300	105	127	1,2	1,2	4,0	5,6	*Z
GLT-100/045-R-__	44,5	100	300	105	128	1,2	1,2	4,0	5,7	*Z
GLT-100/049-R-__	48,3	100	300	105	130	1,2	1,2	4,0	5,7	*Z
GLT-100/057-R-__	57,0	100	300	106	135	1,6	1,6	5,3	6,3	*Z
GLT-100/061-R-__	60,3	100	300	106	137	1,6	1,6	5,3	6,3	*Z
GLT-100/077-R-__	76,1	100	300	106	145	1,6	1,6	5,3	6,5	*Z
GLT-100/089-R-__	88,9	100	300	106	151	1,6	1,6	5,3	6,7	*X; Y; Z
GLT-100/108-R-__	108,0	100	300	108	162	2,0	2,0	6,7	8,6	*X; Y; Z
GLT-100/115-R-__	114,3	100	300	108	166	2,0	2,0	6,7	8,7	*X; Y; Z
GLT-100/133-R-__	133,0	100	300	108	175	2,0	2,0	6,7	9,0	*X; Y; Z
GLT-100/140-R-__	139,7	100	300	108	178	2,0	2,0	6,7	9,1	*X; Y; Z
GLT-100/159-R-__	159,0	100	300	108	188	2,0	2,0	6,7	9,4	*X; Y; Z
GLT-100/169-R-__	168,3	100	300	108	193	2,0	2,0	6,7	9,6	*X; Y; Z
GLT-100/194-R-__	193,7	100	300	108	205	2,0	2,0	6,7	10,3	*X; Y; Z
GLT-100/220-R-__	219,1	100	300	108	218	2,0	2,0	6,7	10,7	*X; Y; Z

* Clamps rotated: X = 30°; Y = 45°; Z = 90°

**Sliding supports
Type GLT 140
DN 15 - DN 200**



Sliding support - Type GLT 140

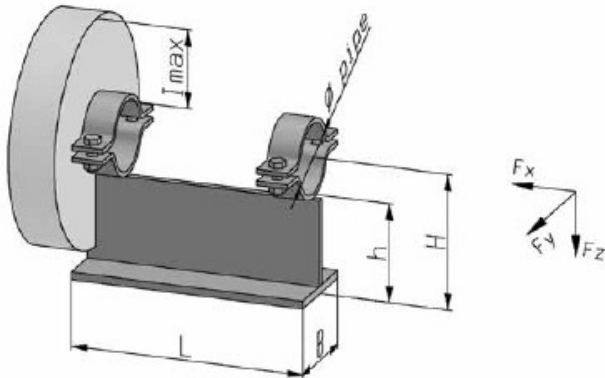
DN 15 - DN 200

Material	S235JR DIN EN 10025-2, temperature up to 350°C
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) at 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
GLT-140/022-R-__	21,3	140	300	145	156	1,2	1,2	4,1	10,0	*Z
GLT-140/025-R-__	25,0	140	300	145	158	1,2	1,2	4,1	10,0	*Z
GLT-140/027-R-__	26,9	140	300	145	159	1,2	1,2	4,1	10,0	*Z
GLT-140/030-R-__	30,0	140	300	145	160	1,2	1,2	4,1	10,0	*Z
GLT-140/034-R-__	33,7	140	300	145	162	1,2	1,2	4,1	10,1	*Z
GLT-140/038-R-__	38,0	140	300	145	164	1,2	1,2	4,1	10,1	*Z
GLT-140/043-R-__	42,4	140	300	145	167	1,2	1,2	4,1	10,1	*Z
GLT-140/045-R-__	44,5	140	300	145	168	1,2	1,2	4,1	10,1	*Z
GLT-140/049-R-__	48,3	140	300	145	170	1,2	1,2	4,1	10,2	*Z
GLT-140/057-R-__	57,0	140	300	146	175	1,7	1,7	5,4	10,8	*Z
GLT-140/061-R-__	60,3	140	300	146	177	1,7	1,7	5,4	10,8	*Z
GLT-140/077-R-__	76,1	140	300	146	185	1,7	1,7	5,4	11,0	*Z
GLT-140/089-R-__	88,9	140	300	146	191	1,7	1,7	5,4	11,1	*X; Y; Z
GLT-140/108-R-__	108,0	140	300	148	202	2,0	2,0	6,8	13,1	*X; Y; Z
GLT-140/115-R-__	114,3	140	300	148	206	2,0	2,0	6,8	13,2	*X; Y; Z
GLT-140/133-R-__	133,0	140	300	148	215	2,0	2,0	6,8	13,5	*X; Y; Z
GLT-140/140-R-__	139,7	140	300	148	218	2,0	2,0	6,8	13,6	*X; Y; Z
GLT-140/159-R-__	159,0	140	300	148	228	2,0	2,0	6,8	13,9	*X; Y; Z
GLT-140/169-R-__	168,3	140	300	148	233	2,0	2,0	6,8	14,1	*X; Y; Z
GLT-140/194-R-__	193,7	140	300	148	245	2,0	2,0	6,8	14,8	*X; Y; Z
GLT-140/220-R-__	219,1	140	300	148	258	2,0	2,0	6,8	15,2	*X; Y; Z

* Clamps rotated: X = 30°; Y = 45°; Z = 90°

**Sliding supports
Type GLB 100 + 120
DN 15 - DN 200**



Sliding support - Type GLB 100

DN 15 - DN 200

Material	13CrMo4-5 DIN EN 10028-2, temperature up to 560°C
Finish	Hot dip galvanized, complete with bolts and nuts GA / KG high temperature (DIN 267-13) Pipe clamps type RA to DIN 3567

Type	Pipe $\varnothing$	B	L	h (BOP) mm	H (MOP) mm	I_{max}	Loads (kN) at 450°C			Weight kg	Clamps Rotated
							F_x	F_y	F_z		
GLB-100/022-_-	21,3	100	300	105	116	80	1,1	1,1	4,5	5,0	*Z
GLB-100/027-_-	26,9	100	300	105	119	80	1,1	1,1	4,5	5,1	*Z
GLB-100/034-_-	33,7	100	300	105	122	80	1,4	1,4	4,5	5,1	*Z
GLB-100/043-_-	42,4	100	300	105	127	80	1,4	1,4	4,5	5,2	*Z
GLB-100/049-_-	48,3	100	300	105	130	80	1,4	1,4	4,5	5,2	*Z
GLB-100/061-_-	60,3	100	300	106	137	80	1,8	1,8	6,1	6,1	*Z
GLB-100/077-_-	76,1	100	300	106	145	80	1,8	1,8	6,1	6,3	*Z
GLB-100/089-_-	88,9	100	300	106	151	80	1,8	1,8	6,1	6,4	*X; Y; Z
GLB-100/115-_-	114,3	100	400	108	166	80	2,3	2,3	7,6	10,1	*X; Y; Z
GLB-100/140-_-	139,7	100	400	108	178	80	2,3	2,3	7,6	10,5	*X; Y; Z
GLB-100/169-_-	168,3	100	400	108	193	80	2,3	2,3	7,6	11,0	*X; Y; Z
GLB-100/220-_-	219,1	100	400	108	218	80	2,3	2,3	7,6	12,1	*X; Y; Z

Sliding support - Type GLB 120

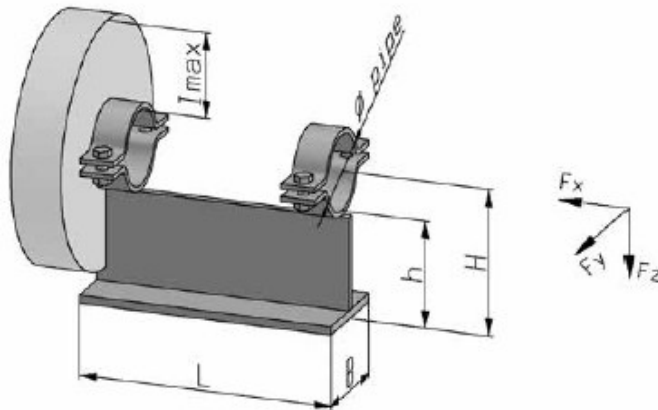
DN 15 - DN 200

Material	13CrMo4-5 DIN EN 10028-2, temperature up to 560°C
Finish	Hot dip galvanized, complete with bolts and nuts GA / KG high temperature (DIN 267-13) Pipe clamps type RA to DIN 3567

Type	Pipe $\varnothing$	B	L	h (BOP) mm	H (MOP) mm	I_{max}	Loads (kN) at 450°C			Weight kg	Clamps rotated
							F_x	F_y	F_z		
GLB-120/022-_-	21,3	120	300	125	136	100	1,2	1,2	3,9	6,0	*Z
GLB-120/027-_-	26,9	120	300	125	139	100	1,2	1,2	3,9	6,1	*Z
GLB-120/034-_-	33,7	120	300	125	142	100	1,2	1,2	3,9	6,1	*Z
GLB-120/043-_-	42,4	120	300	125	147	100	1,2	1,2	3,9	6,2	*Z
GLB-120/049-_-	48,3	120	300	125	150	100	1,2	1,2	3,9	6,2	*Z
GLB-120/061-_-	60,3	120	300	126	157	100	1,5	1,5	5,1	7,1	*Z
GLB-120/077-_-	76,1	120	300	126	165	100	1,5	1,5	5,1	7,3	*Z
GLB-120/089-_-	88,9	120	300	126	171	100	1,5	1,5	5,1	7,4	*X; Y; Z
GLB-120/115-_-	114,3	120	400	128	186	100	1,9	1,9	6,4	11,3	*X; Y; Z
GLB-120/140-_-	139,7	120	400	128	198	100	1,9	1,9	6,4	11,7	*X; Y; Z
GLB-120/169-_-	168,3	120	400	128	213	100	1,9	1,9	6,4	12,2	*X; Y; Z
GLB-120/220-_-	219,1	120	400	128	238	100	1,9	1,9	6,4	13,4	*X; Y; Z

* Clamps rotated: X = 30°; Y = 45°; Z = 90°

**Sliding supports
Type GLB 160
DN 15 - DN 200**



Sliding support - Type GLB 160

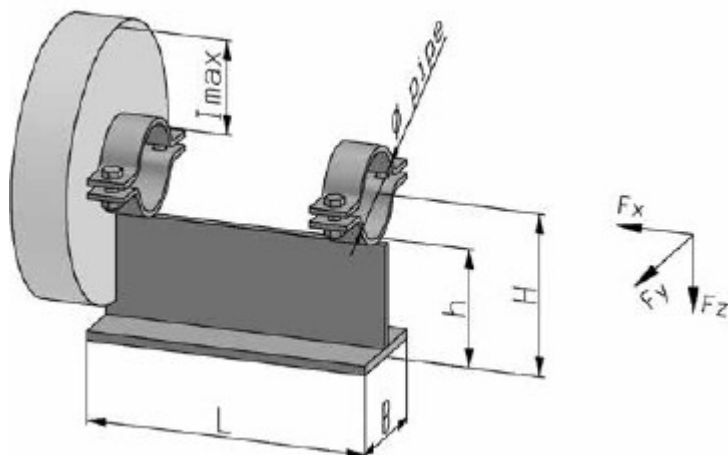
DN 15 - DN 200

Material	13CrMo4-5 DIN EN 10028-2, temperature up to 560°C
Finish	Hot dip galvanized, complete with bolts and nuts GA / KG high temperature (DIN 267-13) Pipe clamps type RA to DIN 3567

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	l _{max}	Loads (kN) at 450°C			Weight kg	Clamps rotated
							F _x	F _y	F _z		
GLB-160/022-_-	21,3	160	300	165	176	140	1,1	1,1	3,6	9,3	*Z
GLB-160/027-_-	26,9	160	300	165	179	140	1,1	1,1	3,6	9,4	*Z
GLB-160/034-_-	33,7	160	300	165	182	140	1,1	1,1	3,6	9,4	*Z
GLB-160/043-_-	42,4	160	300	165	187	140	1,1	1,1	3,6	9,5	*Z
GLB-160/049-_-	48,3	160	300	165	190	140	1,1	1,1	3,6	9,5	*Z
GLB-160/061-_-	60,3	160	300	166	197	140	1,4	1,4	4,8	10,6	*Z
GLB-160/077-_-	76,1	160	300	166	205	140	1,4	1,4	4,8	10,8	*Z
GLB-160/089-_-	88,9	160	300	166	211	140	1,4	1,4	4,8	10,8	*X; Y; Z
GLB-160/115-_-	114,3	160	400	168	226	140	1,8	1,8	6,0	15,8	*X; Y; Z
GLB-160/140-_-	139,7	160	400	168	238	140	1,8	1,8	6,0	16,3	*X; Y; Z
GLB-160/169-_-	168,3	160	400	168	253	140	1,8	1,8	6,0	16,8	*X; Y; Z
GLB-160/220-_-	219,1	160	400	168	278	140	1,8	1,8	6,0	17,8	*X; Y; Z

* Clamps rotated: X = 30°; Y = 45°; Z = 90°

**Sliding supports
Type GL 100
DN 15 - DN 200**



Sliding support - Type GL 100

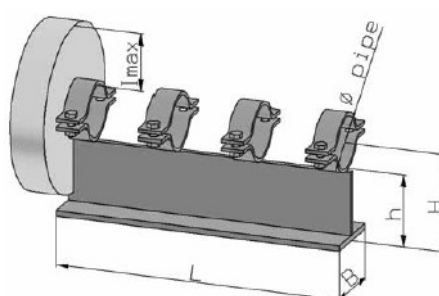
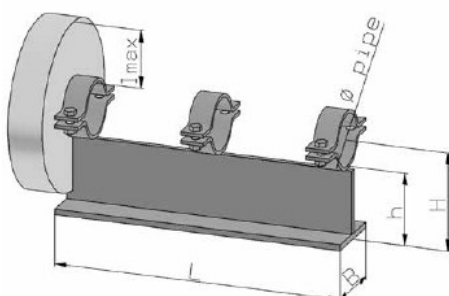
DN 15 - DN 200

Material	S235JR DIN EN 10025-2, temperature up to 350°C
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	l _{max}	Loads (kN) at 100°C			Weight kg	Clamps rotated
							F _x	F _y	F _z		
GL-100/022-R-__	21,3	100	300	100	111	80	1,2	1,2	4,0	5,0	*Z
GL-100/025-R-__	25,0	100	300	100	113	80	1,2	1,2	4,0	5,1	*Z
GL-100/027-R-__	26,9	100	300	100	114	80	1,2	1,2	4,0	5,1	*Z
GL-100/030-R-__	30,0	100	300	100	115	80	1,2	1,2	4,0	5,1	*Z
GL-100/034-R-__	33,7	100	300	100	117	80	1,2	1,2	4,0	5,1	*Z
GL-100/038-R-__	38,0	100	300	100	119	80	1,2	1,2	4,0	5,1	*Z
GL-100/043-R-__	42,4	100	300	100	122	80	1,2	1,2	4,0	5,2	*Z
GL-100/045-R-__	44,5	100	300	100	123	80	1,2	1,2	4,0	5,2	*Z
GL-100/049-R-__	48,3	100	300	100	125	80	1,2	1,2	4,0	5,2	*Z
GL-100/057-R-__	57,0	100	300	100	129	80	1,6	1,6	5,3	5,8	*Z
GL-100/061-R-__	60,3	100	300	100	131	80	1,6	1,6	5,3	5,9	*Z
GL-100/077-R-__	76,1	100	300	100	139	80	1,6	1,6	5,3	6,1	*Z
GL-100/089-R-__	88,9	100	300	100	145	80	1,6	1,6	5,3	6,2	*X; Y; Z
GL-100/108-R-__	108,0	100	300	100	154	80	2,0	2,0	6,7	8,2	*X; Y; Z
GL-100/115-R-__	114,3	100	300	100	158	80	2,0	2,0	6,7	8,2	*X; Y; Z
GL-100/133-R-__	133,0	100	300	100	167	80	2,0	2,0	6,7	8,6	*X; Y; Z
GL-100/140-R-__	139,7	100	300	100	170	80	2,0	2,0	6,7	8,6	*X; Y; Z
GL-100/159-R-__	159,0	100	300	100	180	80	2,0	2,0	6,7	9,0	*X; Y; Z
GL-100/169-R-__	168,3	100	300	100	185	80	2,0	2,0	6,7	9,1	*X; Y; Z
GL-100/194-R-__	193,7	100	300	100	197	80	2,0	2,0	6,7	9,8	*X; Y; Z
GL-100/220-R-__	219,1	100	300	100	210	80	2,0	2,0	6,7	10,3	*X; Y; Z

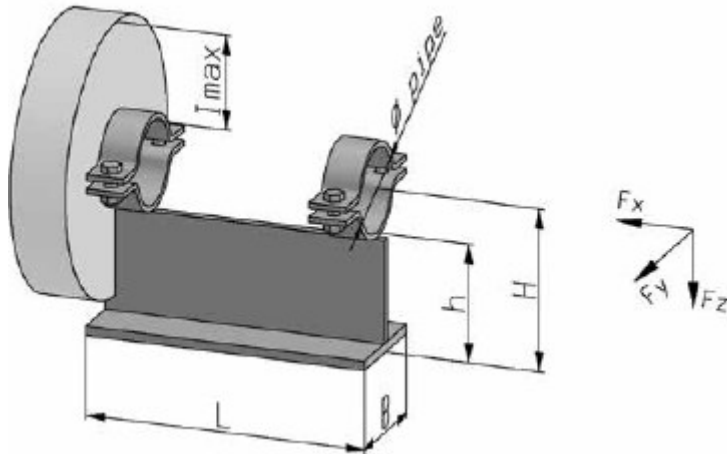
* Clamps rotated: X = 30°; Y = 45°; Z = 90°

Others on request; ask for information:



3.6.1.6

**Sliding supports
Type GL 120
DN 15 - DN 200**



Sliding support - Type GL 120

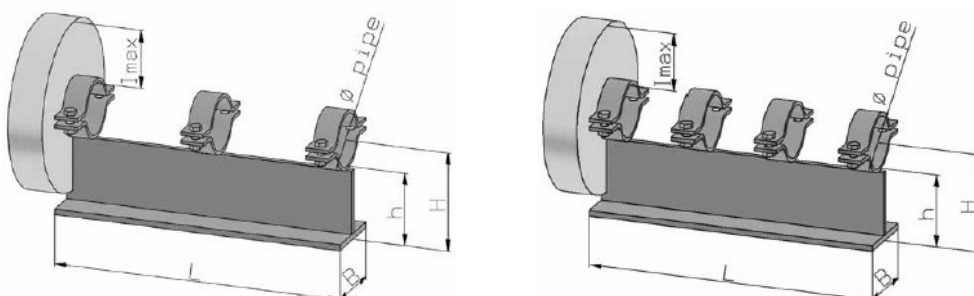
DN 15 - DN 200

Material	S235JR DIN EN 10025-2, temperature up to 350°C
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

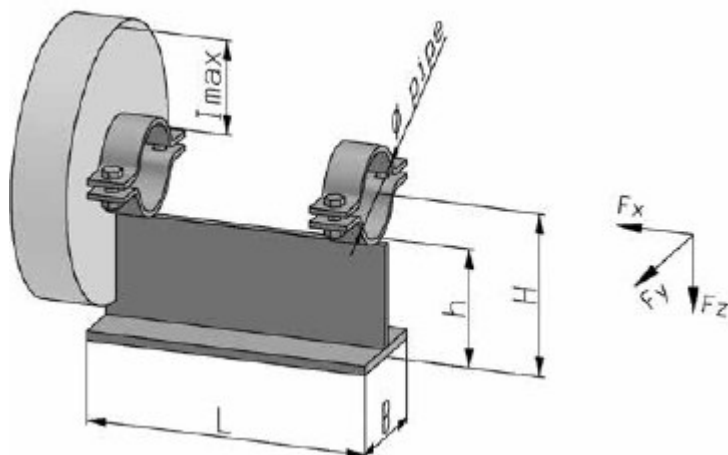
Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	l _{max}	Loads (kN) at°C			Weight kg	Clamps rotated
							F _x	F _y	F _z		
GL-120/022-R-___	21,3	120	300	120	131	100	1,2	1,2	4,0	7,0	*Z
GL-120/025-R-___	25,0	120	300	120	133	100	1,2	1,2	4,0	7,0	*Z
GL-120/027-R-___	26,9	120	300	120	134	100	1,2	1,2	4,0	7,1	*Z
GL-120/030-R-___	30,0	120	300	120	135	100	1,2	1,2	4,0	7,1	*Z
GL-120/034-R-___	33,7	120	300	120	137	100	1,2	1,2	4,0	7,1	*Z
GL-120/038-R-___	38,0	120	300	120	139	100	1,2	1,2	4,0	7,1	*Z
GL-120/043-R-___	42,4	120	300	120	142	100	1,2	1,2	4,0	7,2	*Z
GL-120/045-R-___	44,5	120	300	120	143	100	1,2	1,2	4,0	7,2	*Z
GL-120/049-R-___	48,3	120	300	120	145	100	1,2	1,2	4,0	7,2	*Z
GL-120/057-R-___	57,0	120	300	120	149	100	1,7	1,7	5,4	7,8	*Z
GL-120/061-R-___	60,3	120	300	120	151	100	1,7	1,7	5,4	7,8	*Z
GL-120/077-R-___	76,1	120	300	120	159	100	1,7	1,7	5,4	8,1	*Z
GL-120/089-R-___	88,9	120	300	120	165	100	1,7	1,7	5,4	8,2	*X; Y; Z
GL-120/108-R-___	108,0	120	300	120	174	100	2,0	2,0	6,8	10,1	*X; Y; Z
GL-120/115-R-___	114,3	120	300	120	178	100	2,0	2,0	6,8	10,2	*X; Y; Z
GL-120/133-R-___	133,0	120	300	120	187	100	2,0	2,0	6,8	10,5	*X; Y; Z
GL-120/140-R-___	139,7	120	300	120	190	100	2,0	2,0	6,8	10,6	*X; Y; Z
GL-120/159-R-___	159,0	120	300	120	200	100	2,0	2,0	6,8	11,0	*X; Y; Z
GL-120/169-R-___	168,3	120	300	120	205	100	2,0	2,0	6,8	11,1	*X; Y; Z
GL-120/194-R-___	193,7	120	300	120	217	100	2,0	2,0	6,8	11,8	*X; Y; Z
GL-120/220-R-___	219,1	120	300	120	230	100	2,0	2,0	6,8	12,2	*X; Y; Z

* Clamps rotated: X = 30°; Y = 45°; Z = 90°

Others on request; ask for information:



**Sliding supports
Type GL 150
DN 15 - DN 200**



Sliding support - Type GL 150

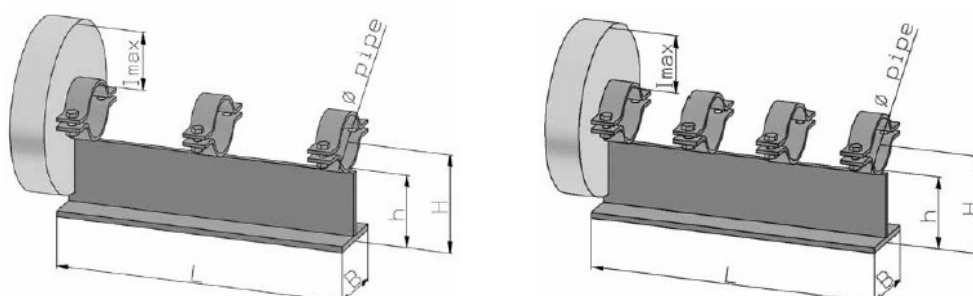
DN 15 - DN 200

Material	S235JR DIN EN 10025-2, temperature up to 350°C
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	I _{max}	Loads (kN) at 100°C			Weight kg	Clamps rotated
							F _x	F _y	F _z		
GL-150/022-R-__	21,3	150	300	150	161	130	1,2	1,2	4,1	8,7	*Z
GL-150/025-R-__	25,0	150	300	150	163	130	1,2	1,2	4,1	8,8	*Z
GL-150/027-R-__	26,9	150	300	150	164	130	1,2	1,2	4,1	8,8	*Z
GL-150/030-R-__	30,0	150	300	150	165	130	1,2	1,2	4,1	8,8	*Z
GL-150/034-R-__	33,7	150	300	150	167	130	1,2	1,2	4,1	8,8	*Z
GL-150/038-R-__	38,0	150	300	150	169	130	1,2	1,2	4,1	8,9	*Z
GL-150/043-R-__	42,4	150	300	150	172	130	1,2	1,2	4,1	8,9	*Z
GL-150/045-R-__	44,5	150	300	150	173	130	1,2	1,2	4,1	8,9	*Z
GL-150/049-R-__	48,3	150	300	150	175	130	1,2	1,2	4,1	8,9	*Z
GL-150/057-R-__	57,0	150	300	150	179	130	1,7	1,7	5,4	9,5	*Z
GL-150/061-R-__	60,3	150	300	150	181	130	1,7	1,7	5,4	9,6	*Z
GL-150/077-R-__	76,1	150	300	150	189	130	1,7	1,7	5,4	9,8	*Z
GL-150/089-R-__	88,9	150	300	150	195	130	1,7	1,7	5,4	9,9	*X; Y; Z
GL-150/108-R-__	108,0	150	300	150	204	130	2,0	2,0	6,8	11,9	*X; Y; Z
GL-150/115-R-__	114,3	150	300	150	208	130	2,0	2,0	6,8	11,9	*X; Y; Z
GL-150/133-R-__	133,0	150	300	150	217	130	2,0	2,0	6,8	12,3	*X; Y; Z
GL-150/140-R-__	139,7	150	300	150	220	130	2,0	2,0	6,8	12,3	*X; Y; Z
GL-150/159-R-__	159,0	150	300	150	230	130	2,0	2,0	6,8	12,7	*X; Y; Z
GL-150/169-R-__	168,3	150	300	150	235	130	2,0	2,0	6,8	12,8	*X; Y; Z
GL-150/194-R-__	193,7	150	300	150	247	130	2,0	2,0	6,8	13,5	*X; Y; Z
GL-150/220-R-__	219,1	150	300	150	260	130	2,0	2,0	6,8	14,0	*X; Y; Z

* Clamps rotated: X = 30°; Y = 45°; Z = 90°

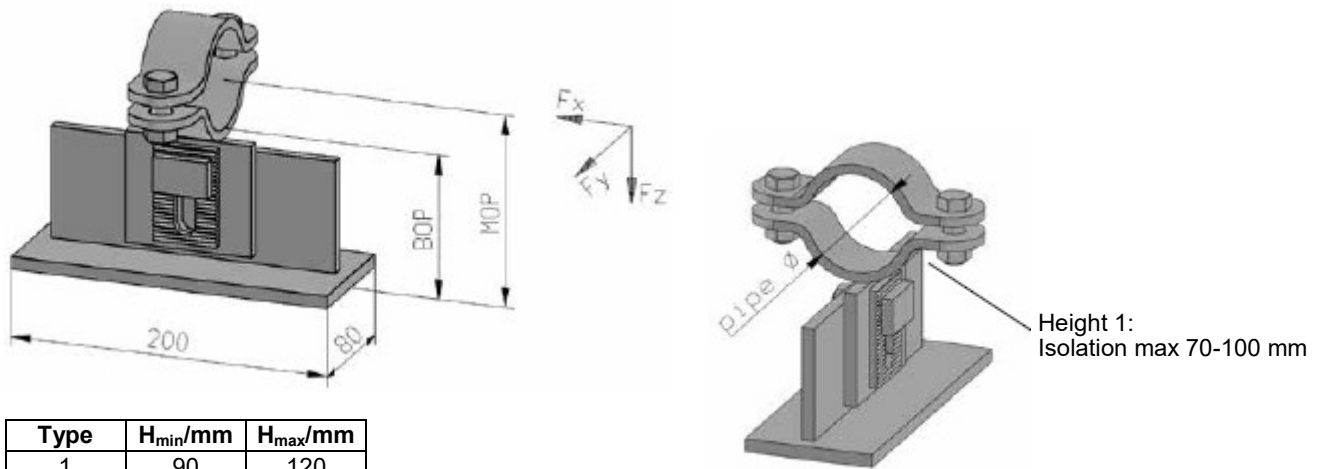
Others on request; ask for information:



3.6.1.8

**Sliding supports - Height adjustable
Type GLVA
Height 1
DN 15 - DN 80**

Sliding support type GLVA



Type	H _{min} /mm	H _{max} /mm
1	90	120

Sliding support - height adjustable Type GLVA; Height 1

DN 15 - DN 80

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

Type	DN	Pipe Ø	Adjustable (BOP) mm	Adjustable (MOP) mm	Loads (kN) at 100°C			Weight kg	Calmps rotated
					F _x	F _y	F _z		
GLVA-022/1-_-_-	15	21,3	90 - 120	101 - 131	0,6	0,6	2,0	2,8	*Z
GLVA-027/1-_-_-	20	26,9	90 - 120	104 - 134	0,6	0,6	2,0	2,9	*Z
GLVA-034/1-_-_-	25	33,7	90 - 120	107 - 137	0,6	0,6	2,0	2,9	*Z
GLVA-043/1-_-_-	32	42,4	90 - 120	112 - 142	0,6	0,6	2,0	2,9	*Z
GLVA-049/1-_-_-	40	48,3	90 - 120	115 - 145	0,6	0,6	2,0	2,9	*Z
GLVA-061/1-_-_-	50	60,3	90 - 120	121 - 151	0,8	0,8	2,7	3,2	*Z
GLVA-077/1-_-_-	65	76,1	90 - 120	129 - 159	0,8	0,8	2,7	3,4	*Z
GLVA-089/1-_-_-	80	88,9	90 - 120	135 - 165	0,8	0,8	2,7	3,4	*Y; Z

* Clamps rotated: Y = 45°; Z = 90°

Sliding supports - Height adjustable

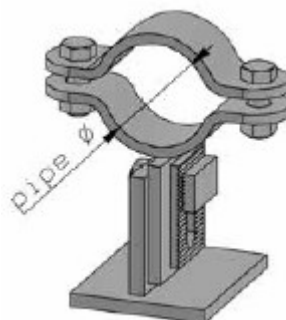
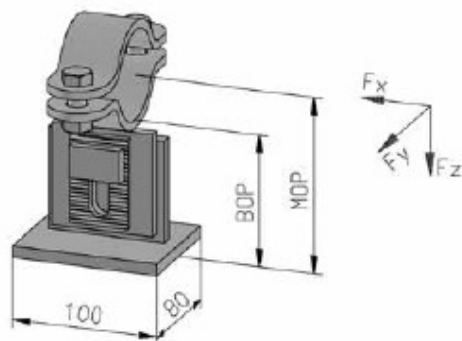
Type GLVA

L100

Height 1

DN 15 - DN 80

Sliding support type GLVA



Type	H _{min} /mm	H _{max} /mm
1	90	120

Sliding support - height adjustable - Type GLVA; L100, Height 1

DN 15 - DN 80

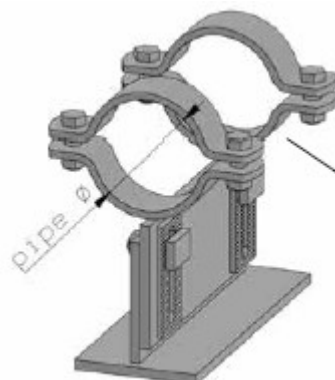
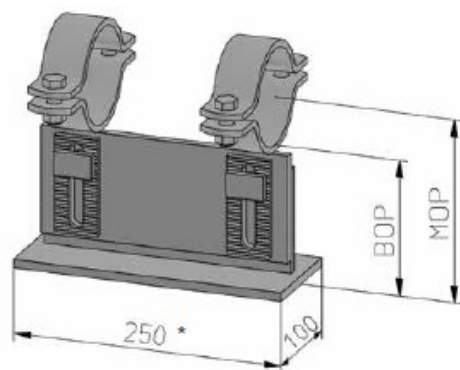
Material	S235JR DIN EN 10025-2, temperatur up to 300°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

Type	DN	Pipe Ø	Adjustable (BOP) mm	Adjustable (MOP) mm	Loads (kN) at 100°C			Weight kg	Clamps rotated
					F _x	F _y	F _z		
GLVA-022/1-R-B3	15	21,3	90 - 120	101 - 131	0,6	0,6	2,0	1,9	*Z
GLVA-027/1-R-B3	20	26,9	90 - 120	104 - 134	0,6	0,6	2,0	2,0	*Z
GLVA-034/1-R-B3	25	33,7	90 - 120	107 - 137	0,6	0,6	2,0	2,0	*Z
GLVA-043/1-R-B3	32	42,4	90 - 120	112 - 142	0,6	0,6	2,0	2,0	*Z
GLVA-049/1-R-B3	40	48,3	90 - 120	115 - 145	0,6	0,6	2,0	2,0	*Z
GLVA-061/1-R-B3	50	60,3	90 - 120	121 - 151	0,8	0,8	2,7	2,3	*Z
GLVA-077/1-R-B3	65	76,1	90 - 120	129 - 159	0,8	0,8	2,7	2,5	*Z
GLVA-089/1-R-B3	80	88,9	90 - 120	135 - 165	0,8	0,8	2,7	2,5	*Y; Z

* Clamps rotated: Y = 45°; Z = 90°

Sliding supports - Height adjustable
Type GLVB
Height 1 + 2
DN 15 - DN 300

Sliding support type GLVB



Height 1:
Isolation max. 70-100 mm
Height 2:
Isolation max. 100-160 mm

Type	H _{min} /mm	H _{max} /mm
1	90	120
2	120	180

Sliding support - height adjustable - Type GLVB; Height 1 + 2

DN 15 - DN 300

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

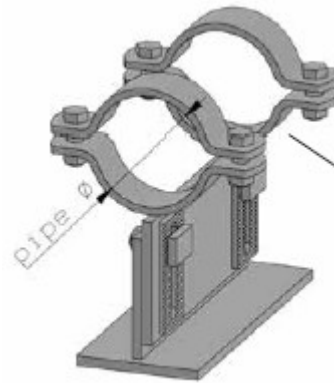
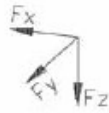
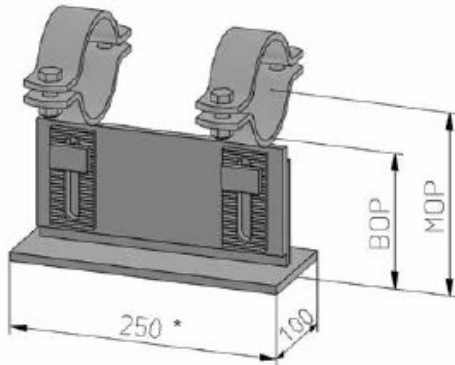
Type	DN	Pipe Ø	Adjustable (BOP) mm	Adjustable (MOP) mm	Loads (kN) at 100°C			Weight kg	Clamps rotated
					F _x	F _y	F _z		
GLVB-022/1-_-	15	21,3	90 - 120	101 - 131	1,8	0,2	5,1	5,0	*Z
GLVB-027/1-_-	20	26,9	90 - 120	104 - 134	1,6	0,2	5,1	5,1	*Z
GLVB-034/1-_-	25	33,7	90 - 120	107 - 137	1,6	0,2	5,3	5,1	*Z
GLVB-043/1-_-	32	42,4	90 - 120	112 - 142	1,6	0,3	5,3	5,2	*Z
GLVB-049/1-_-	40	48,3	90 - 120	115 - 145	1,6	0,3	5,3	5,2	*Z
GLVB-061/1-_-	50	60,3	90 - 120	121 - 151	2,7	0,4	8,4	5,9	*Z
GLVB-077/1-_-	65	76,1	90 - 120	129 - 159	2,7	0,7	9,0	6,1	*Z
GLVB-089/1-_-	80	88,9	90 - 120	135 - 165	2,7	0,7	8,7	6,2	*Y; Z
GLVB-115/1-_-	100	114,3	90 - 120	148 - 178	4,3	1,4	14,4	8,3	*Y; Z
GLVB-140/1-_-	125	139,7	90 - 120	160 - 190	4,3	1,6	14,4	8,7	*Y; Z
GLVB-169/1-_-	150	168,3	90 - 120	175 - 205	4,4	1,8	14,9	9,2	*Y; Z
GLVB-220/1-_-	200	219,1	90 - 120	200 - 230	4,4	2,0	14,9	10,3	*Y; Z
GLVB-273/1-_-	250	273,0	90 - 120	227 - 257	4,4	2,2	15,3	13,3	*Y; Z
GLVB-324/1-_-	300	323,9	90 - 120	252 - 282	4,7	2,2	15,6	14,5	*Y; Z
GLVB-022/2-_-	15	21,3	120-180	131 - 191	1,8	0,1	5,0	5,9	*Z
GLVB-027/2-_-	20	26,9	120-180	134 - 194	1,6	0,1	5,1	5,9	*Z
GLVB-034/2-_-	25	33,7	120-180	137 - 197	1,6	0,1	5,4	6,0	*Z
GLVB-043/2-_-	32	42,4	120-180	142 - 202	1,6	0,2	5,3	6,0	*Z
GLVB-049/2-_-	40	48,3	120-180	145 - 205	1,6	0,2	5,4	6,1	*Z
GLVB-061/2-_-	50	60,3	120-180	151 - 211	2,6	0,3	8,4	6,7	*Z
GLVB-077/2-_-	65	76,1	120-180	159 - 219	2,7	0,4	9,0	7,0	*Z
GLVB-089/2-_-	80	88,9	120-180	165 - 225	2,7	0,6	8,7	7,1	*Y; Z
GLVB-115/2-_-	100	114,3	120-180	178 - 238	4,3	1,0	14,6	9,2	*Y; Z
GLVB-140/2-_-	125	139,7	120-180	190 - 250	4,3	1,2	14,4	9,6	*Y; Z
GLVB-169/2-_-	150	168,3	120-180	205 - 265	4,4	1,4	14,9	10,1	*Y; Z
GLVB-220/2-_-	200	219,1	120-180	230 - 290	4,4	1,7	14,9	11,2	*Y; Z
GLVB-273/2-_-	250	273,0	120-180	257 - 317	4,3	2,0	15,2	14,2	*Y; Z
GLVB-324/2-_-	300	323,9	120-180	282 - 342	4,1	2,0	15,6	15,2	*Y; Z

* Clamps rotated: Y = 45°; Z = 90°

* Other lengths optional; 300; 450 and 500 mm

Sliding supports _ Height adjustable
Type GLVB
Height 3
DN 15 - DN 300

Sliding support type GLVB



Height 3:
Isolation max. 150-210 mm

Type	H _{min} /mm	H _{max} /mm
3	170	230

Sliding support - height adjustable - Type GLVB; Height 3

DN 15 - DN 300

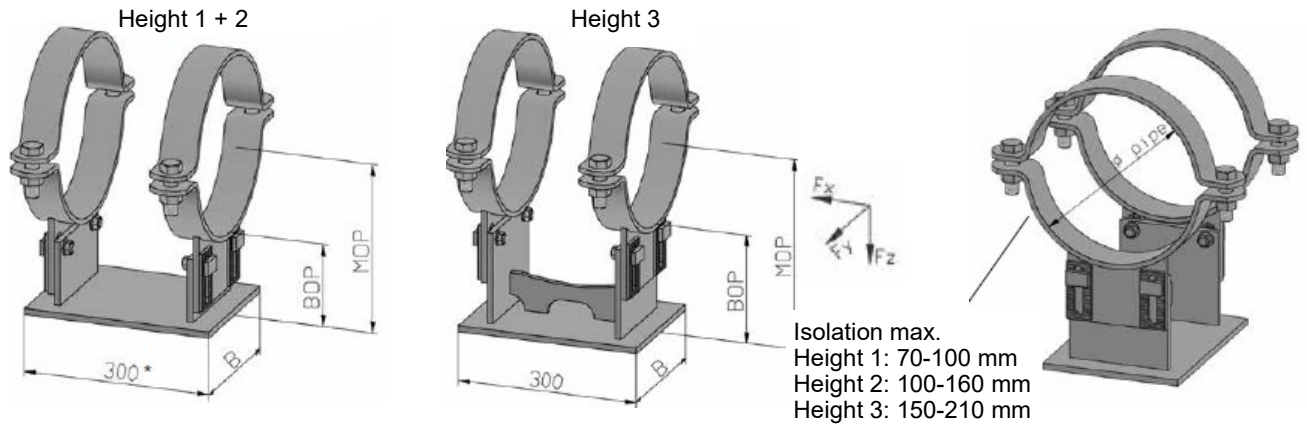
Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

Type	DN	Pipe Ø	Adjustable (BOP) mm	Adjustable (MOP) mm	Loads (kN) at 100°C			Weight kg	Clamps rotated
					F _x	F _y	F _z		
GLVB-022/3-_-_-	15	21,3	170 - 230	181 - 241	1,8	0,1	5,0	6,6	*Z
GLVB-027/3-_-_-	20	26,9	170 - 230	184 - 244	1,6	0,1	5,1	6,6	*Z
GLVB-034/3-_-_-	25	33,7	170 - 230	187 - 247	1,6	0,1	5,4	6,7	*Z
GLVB-043/3-_-_-	32	42,4	170 - 230	192 - 252	1,6	0,1	5,3	6,7	*Z
GLVB-049/3-_-_-	40	48,3	170 - 230	195 - 255	1,6	0,2	5,4	6,8	*Z
GLVB-061/3-_-_-	50	60,3	170 - 230	201 - 261	2,6	0,3	8,4	7,4	*Z
GLVB-077/3-_-_-	65	76,1	170 - 230	209 - 269	2,7	0,3	9,0	7,6	*Z
GLVB-089/3-_-_-	80	88,9	170 - 230	215 - 275	2,7	0,4	8,7	7,8	*Y; Z
GLVB-115/3-_-_-	100	114,3	170 - 230	228 - 288	4,3	0,9	14,6	9,9	*Y; Z
GLVB-140/3-_-_-	125	139,7	170 - 230	240 - 300	4,3	1,0	14,4	10,3	*Y; Z
GLVB-169/3-_-_-	150	168,3	170 - 230	255 - 315	4,3	1,2	14,9	10,8	*Y; Z
GLVB-220/3-_-_-	200	219,1	170 - 230	280 - 340	3,9	1,4	14,9	11,9	*Y; Z
GLVB-273/3-_-_-	250	273,0	170 - 230	307 - 367	3,8	1,6	15,2	14,9	*Y; Z
GLVB-324/3-_-_-	300	323,9	170 - 230	332 - 392	3,6	1,6	15,6	16,1	*Y; Z

* Clamps rotated: Y = 45°; Z = 90°

* Other lengths optional; 300; 450 and 500 mm

**Sliding supports _ Height adjustable
Type GNV
Height 1 + 2 + 3
DN 150 - DN 700**



Sliding support - height adjustable - Type GNV

DN 150 - DN 700

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

Type	DN	Pipe Ø	B	Adjustable (BOP) mm	Adjustable (MOP) mm	Loads (kN)* ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
GNV-169/1-_-_-	150	168,3	180	90 - 120	175 - 205	6,5	6,5	14,0	12,4	*X; Z
GNV-220/1-_-_-	200	219,1	200	90 - 120	200 - 230	7,5	7,5	15,0	14,5	*X; Z
GNV-273/1-_-_-	250	273,0	220	90 - 120	227 - 257	6,0	6,0	15,0	18,5	*X; Z
GNV-324/1-_-_-	300	323,9	240	90 - 120	252 - 282	9,0	9,0	33,0	22,6	*Y; Z
GNV-356/1-_-_-	350	355,6	260	90 - 120	268 - 298	10,5	10,5	35,0	25,0	*Y; Z
GNV-407/1-_-_-	400	406,4	280	90 - 120	294 - 324	12,0	12,0	40,0	33,7	*Y; Z
GNV-457/1-_-_-	450	457,0	300	90 - 120	319 - 349	12,5	12,5	42,0	36,3	*Y; Z
GNV-508/1-_-_-	500	508,0	320	90 - 120	344 - 374	13,0	13,0	45,0	39,0	*Y; Z
GNV-609/1-_-_-	600	609,6	340	90 - 120	395 - 425	13,5	13,5	45,0	43,9	*Y; Z
GNV-711/1-_-_-	700	711,2	400	90 - 120	446 - 476	14,0	14,0	48,0	51,1	*Y; Z
GNV-169/2-_-_-	150	168,3	180	120 - 180	205 - 265	4,5	4,5	10,0	13,8	*X; Z
GNV-220/2-_-_-	200	219,1	200	120 - 180	230 - 290	5,0	5,0	15,0	16,0	*X; Z
GNV-273/2-_-_-	250	273,0	220	120 - 180	257 - 317	5,0	5,0	12,0	20,2	*X; Z
GNV-324/2-_-_-	300	323,9	240	120 - 180	282 - 342	7,0	7,0	25,0	24,9	*Y; Z
GNV-356/2-_-_-	350	355,6	260	120 - 180	298 - 358	8,5	8,5	30,0	27,5	*Y; Z
GNV-407/2-_-_-	400	406,4	280	120 - 180	324 - 384	10,0	10,0	36,0	36,5	*Y; Z
GNV-457/2-_-_-	450	457,0	300	120 - 180	349 - 409	10,0	10,0	38,0	39,2	*Y; Z
GNV-508/2-_-_-	500	508,0	320	120 - 180	374 - 434	11,5	11,5	38,0	42,2	*Y; Z
GNV-609/2-_-_-	600	609,6	340	120 - 180	425 - 485	11,0	11,0	40,0	47,4	*Y; Z
GNV-711/2-_-_-	700	711,2	400	120 - 180	476 - 536	12,0	12,0	40,0	55,3	*Y; Z
GNV-169/3-_-_-	150	168,3	180	170 - 230	255 - 315	4,5	4,5	10,0	15,5	*X; Z
GNV-220/3-_-_-	200	219,1	200	170 - 230	280 - 340	5,5	5,5	12,0	17,9	*X; Z
GNV-273/3-_-_-	250	273,0	220	170 - 230	307 - 367	5,8	5,8	14,0	22,2	*X; Z
GNV-324/3-_-_-	300	323,9	240	170 - 230	332 - 392	10,0	10,0	35,0	27,3	*Y; Z
GNV-356/3-_-_-	350	355,6	260	170 - 230	348 - 408	10,5	10,5	35,0	29,6	*Y; Z
GNV-407/3-_-_-	400	406,4	280	170 - 230	374 - 434	12,0	12,0	40,0	39,3	*Y; Z
GNV-457/3-_-_-	450	457,0	300	170 - 230	399 - 459	12,5	12,5	42,0	42,2	*Y; Z
GNV-508/3-_-_-	500	508,0	320	170 - 230	424 - 484	13,0	13,0	43,0	45,4	*Y; Z
GNV-609/3-_-_-	600	609,6	340	170 - 230	475 - 535	13,0	13,0	44,0	50,7	*Y; Z
GNV-711/3-_-_-	700	711,2	400	170 - 230	526 - 586	14,0	14,0	48,0	59,2	*Y; Z

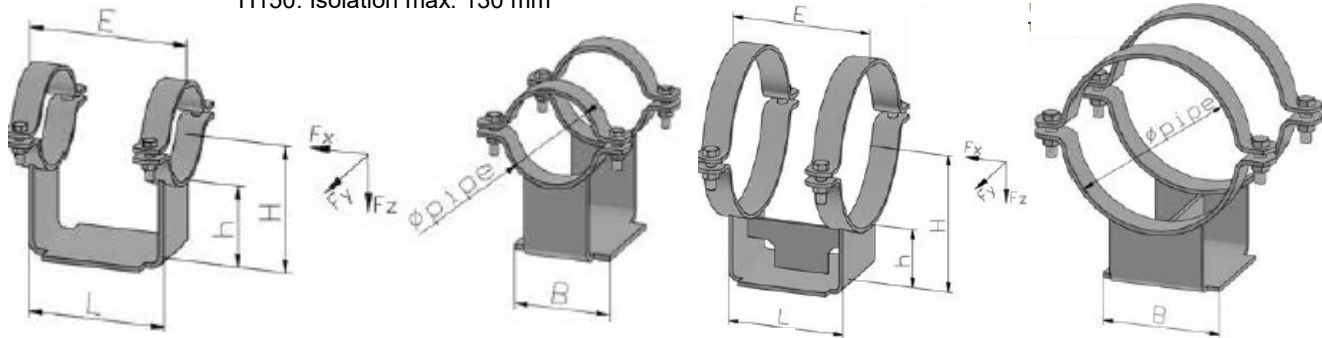
* Clamps rotated: X = 30°; Y = 45°; Z = 90°

* Other lengths optional; 450 and 500 mm

**Sliding supports
Type GLN 100 + 150
DN 100 - DN 900**

DN 100 - DN 300
H100: Isolation max. 80 mm
H150: Isolation max. 130 mm

DN 350 - DN 900
H100: Isolation max. 80 mm
H150: Isolation max. 130 mm



Sliding support - Type GLN 100

DN 100 - DN 900

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

Type	DN	Pipe Ø	B	L	E	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
								F _x	F _y	F _z		
GLN-100/115-_-_-	100	114,3	140	250	290	100	158	4,2	4,2	14,0	7,4	*X; Z
GLN-100/140-_-_-	125	139,7	160	250	290	100	170	4,8	4,8	16,0	8,4	*X; Z
GLN-100/169-_-_-	150	168,3	180	250	290	100	185	5,5	5,5	19,5	9,6	*X; Z
GLN-100/220-_-_-	200	219,1	200	300	340	100	210	5,5	5,5	19,5	12,2	*X; Z
GLN-100/273-_-_-	250	273,0	220	300	350	100	237	7,0	7,0	23,0	16,0	*X; Z
GLN-100/324-_-_-	300	323,9	240	300	350	100	262	7,0	7,0	23,0	17,9	*X; Y; Z
GLN-100/356-_-_-	350	355,6	260	300	350	100	278	8,5	8,5	33,0	21,1	*X; Y; Z
GLN-100/407-_-_-	400	406,4	280	300	360	100	304	9,5	9,5	33,0	29,7	*X; Y; Z
GLN-100/457-_-_-	450	457,0	300	300	360	100	329	10,0	10,0	36,5	31,4	*X; Y; Z
GLN-100/508-_-_-	500	508,0	320	300	358	100	354	15,0	14,0	50,0	36,3	*X; Y; Z
GLN-100/609-_-_-	600	610,0	340	400	458	100	405	15,0	15,0	50,0	44,7	*X; Y; Z
GLN-100/711-_-_-	700	711,0	400	400	458	100	456	15,0	15,0	52,0	51,7	*X; Y; Z
GLN-100/762-_-_-	750	762,0	420	400	458	100	481	23,0	23,0	79,0	54,6	*X; Y; Z
GLN-100/812-_-_-	800	813,0	440	400	458	100	507	15,0	15,0	52,0	57,4	*X; Y; Z
GLN-100/914-_-_-	900	914,0	500	400	478	100	557	34,0	34,0	115,0	118,0	*X; Y; Z

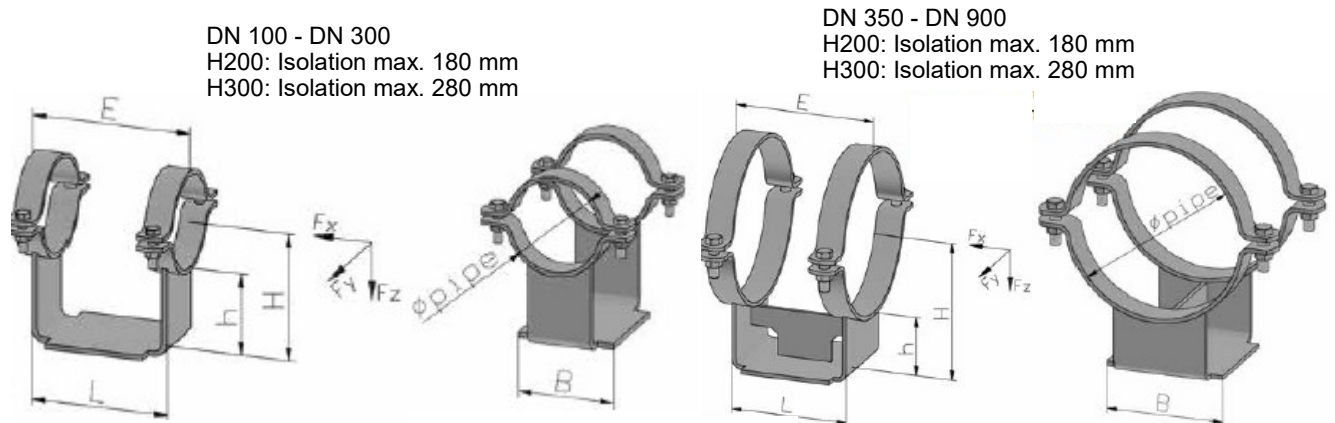
Sliding support - Type GLN 150

DN 100 - DN 900

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

Type	DN	Pipe Ø	B	L	E	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
								F _x	F _y	F _z		
GLN-150/115-_-_-	100	114,3	140	250	290	150	208	3,8	3,8	12,6	8,0	*X; Z
GLN-150/140-_-_-	125	139,7	160	250	290	150	220	4,0	4,0	13,5	9,2	*X; Z
GLN-150/169-_-_-	150	168,3	180	250	290	150	235	4,8	4,8	16,1	10,6	*X; Z
GLN-150/220-_-_-	200	219,1	200	300	340	150	260	5,2	5,2	17,6	13,3	*X; Z
GLN-150/273-_-_-	250	273,0	220	300	350	150	287	6,4	6,4	21,2	17,3	*X; Z
GLN-150/324-_-_-	300	323,9	240	300	350	150	312	6,5	6,5	21,5	19,3	*X; Y; Z
GLN-150/356-_-_-	350	355,6	260	300	350	150	328	7,3	7,3	33,0	23,1	*X; Y; Z
GLN-150/407-_-_-	400	406,4	280	300	360	150	354	9,5	9,5	33,0	32,0	*X; Y; Z
GLN-150/457-_-_-	450	457,0	300	300	360	150	379	10,0	10,0	36,5	33,9	*X; Y; Z
GLN-150/508-_-_-	500	508,0	320	300	358	150	404	15,0	13,0	50,0	39,6	*X; Y; Z
GLN-150/609-_-_-	600	610,0	340	400	458	150	455	15,0	15,0	50,0	48,3	*X; Y; Z
GLN-150/711-_-_-	700	711,0	400	400	458	150	506	15,0	15,0	52,0	55,8	*X; Y; Z
GLN-150/762-_-_-	750	762,0	420	400	458	150	531	23,0	23,0	79,0	58,9	*X; Y; Z
GLN-150/812-_-_-	800	813,0	440	400	458	150	557	15,0	15,0	52,0	61,9	*X; Y; Z
GLN-150/914-_-_-	900	914,0	500	400	478	150	607	34,0	34,0	115,0	123,1	*X; Y; Z

**Sliding supports
Type GLN 200 - 300
DN 100 - DN 900**



Sliding support - Type GLN 200

DN 100 - DN 900

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

Type	DN	Pipe Ø	B	L	E	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
								F _x	F _y	F _z		
GLN-200/115-_-_-	100	114,3	140	250	290	200	258	3,2	3,2	10,7	8,6	*X; Z
GLN-200/140-_-_-	125	139,7	160	250	290	200	270	3,5	3,5	11,5	10,0	*X; Z
GLN-200/169-_-_-	150	168,3	180	250	290	200	285	4,2	4,2	14,0	11,5	*X; Z
GLN-200/220-_-_-	200	219,1	200	300	340	200	310	4,6	4,6	15,3	14,4	*X; Z
GLN-200/273-_-_-	250	273,0	220	300	350	200	337	5,5	5,5	18,3	18,6	*X; Z
GLN-200/324-_-_-	300	323,9	240	300	350	200	362	5,8	5,8	19,3	20,8	*X; Y; Z
GLN-200/356-_-_-	350	355,6	260	300	350	200	378	6,3	6,3	28,0	25,0	*X; Y; Z
GLN-200/407-_-_-	400	406,4	280	300	360	200	404	9,5	9,5	33,0	34,3	*X; Y; Z
GLN-200/457-_-_-	450	457,0	300	300	360	200	429	9,5	9,5	35,0	36,4	*X; Y; Z
GLN-200/508-_-_-	500	508,0	320	300	358	200	454	15,0	11,0	50,0	43,0	*X; Y; Z
GLN-200/609-_-_-	600	610,0	340	400	458	200	505	14,0	12,0	48,0	51,8	*X; Y; Z
GLN-200/711-_-_-	700	711,0	400	400	458	200	556	14,0	13,0	50,0	60,0	*X; Y; Z
GLN-200/762-_-_-	750	762,0	420	400	458	200	581	23,0	23,0	79,0	63,2	*X; Y; Z
GLN-200/812-_-_-	800	813,0	440	400	458	200	607	14,0	13,0	50,0	66,4	*X; Y; Z
GLN-200/914-_-_-	900	914,0	500	400	478	200	657	34,0	34,0	115,0	128,2	*X; Y; Z

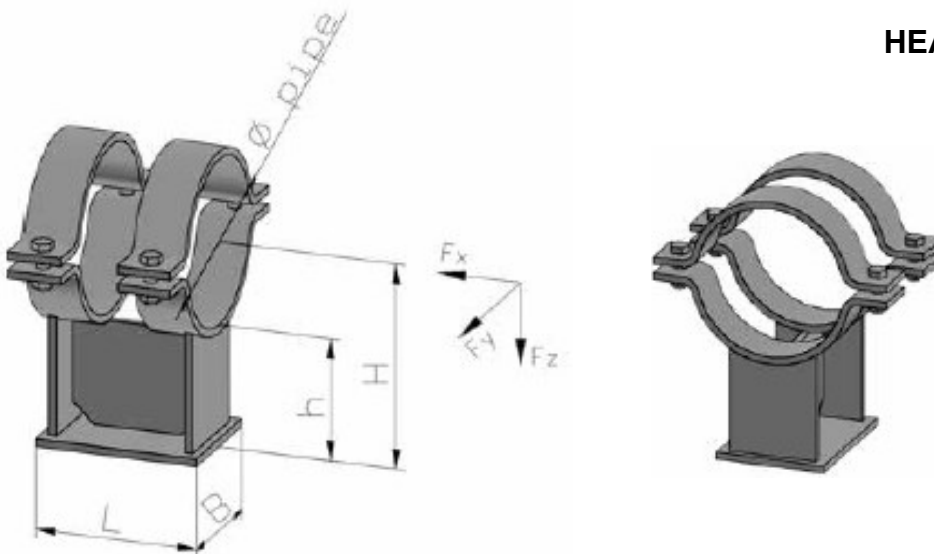
Sliding support - Type GLN 300
DN 900

DN 100 -

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps type RA to DIN 3567

Type	DN	Pipe Ø	B	L	E	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
								F _x	F _y	F _z		
GLN-300/115-_-_-	100	114,3	140	250	290	300	358	2,3	2,3	7,6	9,0	*X; Z
GLN-300/140-_-_-	125	139,7	160	250	290	300	370	2,6	2,6	8,7	11,6	*X; Z
GLN-300/169-_-_-	150	168,3	180	250	290	300	385	3,1	3,1	10,6	13,4	*X; Z
GLN-300/220-_-_-	200	219,1	200	300	340	300	410	3,5	3,5	11,7	16,7	*X; Z
GLN-300/273-_-_-	250	273,0	220	300	350	300	437	4,2	4,2	14,0	21,1	*X; Z
GLN-300/324-_-_-	300	323,9	240	300	350	300	462	4,6	4,6	15,3	23,6	*X; Y; Z
GLN-300/356-_-_-	350	355,6	260	300	350	300	478	5,0	5,0	28,0	28,8	*X; Y; Z
GLN-300/407-_-_-	400	406,4	280	300	360	300	504	8,0	8,0	30,0	39,0	*X; Y; Z
GLN-300/457-_-_-	450	457,0	300	300	360	300	529	8,5	8,5	32,0	41,3	*X; Y; Z
GLN-300/508-_-_-	500	508,0	320	300	358	300	554	15,0	9,0	50,0	49,3	*X; Y; Z
GLN-300/609-_-_-	600	610,0	340	400	458	300	605	12,0	10,0	45,0	58,9	*X; Y; Z
GLN-300/711-_-_-	700	711,0	400	400	458	300	656	12,0	10,0	50,0	68,2	*X; Y; Z
GLN-300/762-_-_-	750	762,0	420	400	458	300	681	23,0	23,0	79,0	71,9	*X; Y; Z
GLN-300/812-_-_-	800	813,0	440	400	458	300	707	12,0	10,0	50,0	75,5	*X; Y; Z
GLN-300/914-_-_-	900	914,0	500	400	478	300	757	34,0	34,0	115,0	138,3	*X; Y; Z

**Sliding supports
HEAVY Type FLS 100 + 150
DN 200 - DN 1000**



Sliding support/Heavy - Type FLS 100

DN 200 - DN 1000

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps for higher loads

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
FLS-100/0220-_-_-	219,1	200	400	100	210	26,0	26,0	105,0	43,2	*X; Z
FLS-100/0273-_-_-	273,0	230	400	100	237	25,0	25,0	105,0	48,2	*X; Z
FLS-100/0324-_-_-	323,9	260	400	100	262	27,5	27,5	116,0	54,4	*X; Z
FLS-100/0356-_-_-	355,6	280	400	100	278	30,0	30,0	124,0	60,8	*X; Z
FLS-100/0407-_-_-	406,4	300	400	100	303	42,0	42,0	170,0	103,7	*X; Z
FLS-100/0457-_-_-	457,0	320	400	100	329	40,0	40,0	165,0	118,5	*X; Z
FLS-100/0508-_-_-	508,0	350	500	100	354	35,0	35,0	116,0	141,1	*X; Y; Z
FLS-100/0609-_-_-	610,0	380	500	100	405	36,5	36,5	127,0	161,6	*X; Y; Z
FLS-100/0711-_-_-	711,0	410	500	100	456	38,0	38,0	120,0	180,2	*X; Y; Z
FLS-100/0762-_-_-	762,0	430	500	100	481	38,0	38,0	120,0	187,4	*X; Y; Z
FLS-100/0812-_-_-	813,0	440	500	100	507	32,0	32,0	118,0	198,8	*X; Y; Z
FLS-100/0914-_-_-	914,0	470	500	100	557	50,0	50,0	175,0	267,5	*X; Y; Z
FLS-100/1016-_-_-	1016,0	500	500	100	608	46,0	46,0	155,0	290,3	*X; Y; Z

Sliding support/Heavy - Type FLS 150

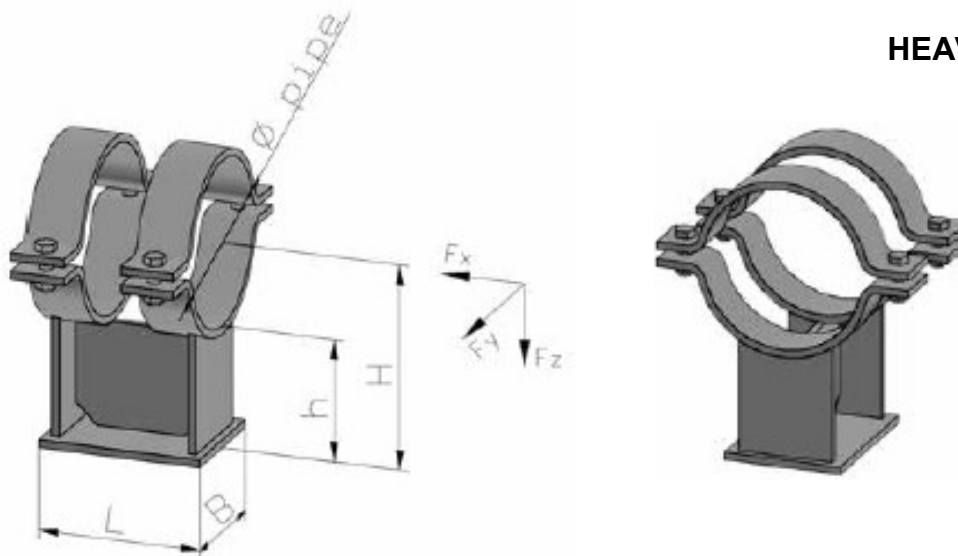
DN 200 - DN 1000

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps for higher loads

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
FLS-150/0220-_-_-	219,1	200	400	150	260	30,0	30,0	121,0	46,9	*X; Z
FLS-150/0273-_-_-	273,0	230	400	150	287	30,0	30,0	125,0	52,3	*X; Z
FLS-150/0324-_-_-	323,9	260	400	150	312	30,0	30,0	125,0	58,8	*X; Z
FLS-150/0356-_-_-	355,6	280	400	150	328	32,0	32,0	135,0	65,5	*X; Z
FLS-150/0407-_-_-	406,4	300	400	150	354	45,0	45,0	185,0	110,1	*X; Z
FLS-150/0457-_-_-	457,0	320	400	150	379	42,0	42,0	180,0	125,2	*X; Z
FLS-150/0508-_-_-	508,0	350	500	150	404	42,0	42,0	140,0	149,1	*X; Y; Z
FLS-150/0609-_-_-	610,0	380	500	150	455	39,0	39,0	137,0	170,1	*X; Y; Z
FLS-150/0711-_-_-	711,0	410	500	150	506	42,0	42,0	130,0	189,2	*X; Y; Z
FLS-150/0762-_-_-	762,0	430	500	150	531	41,0	41,0	130,0	196,7	*X; Y; Z
FLS-150/0812-_-_-	813,0	440	500	150	557	34,0	34,0	132,0	208,2	*X; Y; Z
FLS-150/0914-_-_-	914,0	470	500	150	607	55,0	55,0	185,0	279,7	*X; Y; Z
FLS-150/1016-_-_-	1016,0	500	500	150	658	47,0	47,5	170,0	303,1	*X; Y; Z

* Clamps rotated: X = 30°; Y = 45°; Z = 90°

**Sliding supports
HEAVY Type FLS 200 + 300
DN 200 - DN 1000**



Sliding support/Heavy - Type FLS 200

DN 200 - DN 1000

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps for higher loads

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
FLS-200/0220-_-	219,1	200	400	200	310	28,0	28,0	115,0	50,6	*X; Z
FLS-200/0273-_-	273,0	230	400	200	337	27,0	27,0	114,0	56,4	*X; Z
FLS-200/0324-_-	323,9	260	400	200	362	27,5	27,5	116,0	63,2	*X; Z
FLS-200/0356-_-	355,6	280	400	200	378	30,0	30,0	124,0	70,2	*X; Z
FLS-200/0407-_-	406,4	300	400	200	403	43,0	43,0	180,0	116,5	*X; Z
FLS-200/0457-_-	457,0	320	400	200	429	42,0	42,0	175,0	131,9	*X; Z
FLS-200/0508-_-	508,0	350	500	200	454	40,0	40,0	135,0	157,1	*X; Y; Z
FLS-200/0609-_-	610,0	380	500	200	505	36,0	36,0	126,0	178,6	*X; Y; Z
FLS-200/0711-_-	711,0	410	500	200	556	41,0	41,0	129,0	198,2	*X; Y; Z
FLS-200/0762-_-	762,0	430	500	200	581	41,0	41,0	130,0	206,0	*X; Y; Z
FLS-200/0812-_-	813,0	440	500	200	607	34,0	34,0	132,0	217,6	*X; Y; Z
FLS-200/0914-_-	914,0	470	500	200	657	55,0	55,0	185,0	291,9	*X; Y; Z
FLS-200/1016-_-	1016,0	500	500	200	708	46,0	46,0	165,0	315,9	*X; Y; Z

Sliding support/Heavy - Type FLS 300

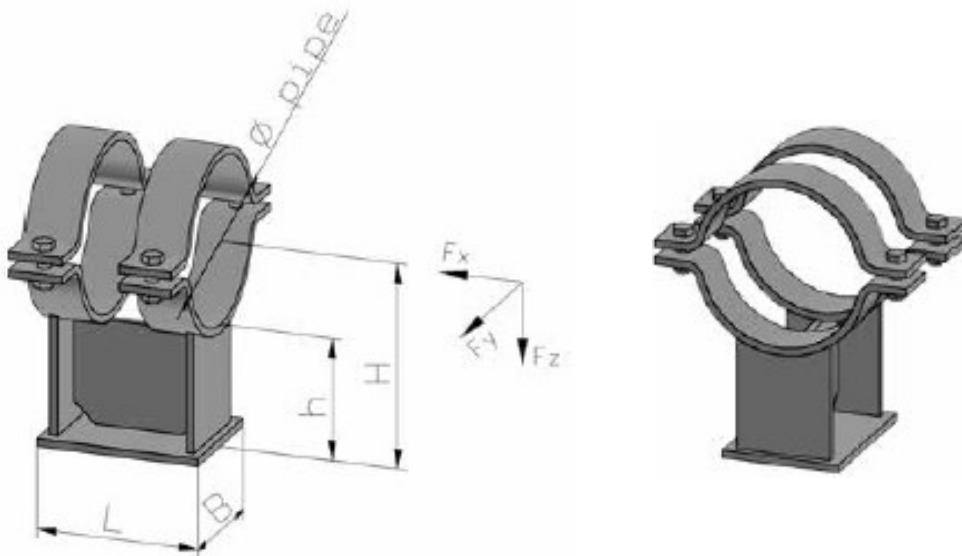
DN 200 - DN 1000

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps for higher loads

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
FLS-300/0220-_-	219,1	200	400	300	410	23,0	23,0	95,0	58,1	*X; Z
FLS-300/0273-_-	273,0	230	400	300	437	23,0	23,0	95,0	64,6	*X; Z
FLS-300/0324-_-	323,9	260	400	300	462	23,3	23,3	98,5	72,1	*X; Z
FLS-300/0356-_-	355,6	280	400	300	478	25,0	25,0	104,0	79,5	*X; Z
FLS-300/0407-_-	406,4	300	400	300	503	38,0	38,0	160,0	129,3	*X; Z
FLS-300/0457-_-	457,0	320	400	300	529	37,0	37,0	158,0	145,3	*X; Z
FLS-300/0508-_-	508,0	350	500	300	554	34,0	34,0	115,0	173,2	*X; Y; Z
FLS-300/0609-_-	610,0	380	500	300	605	35,0	35,0	124,0	195,2	*X; Y; Z
FLS-300/0711-_-	711,0	410	500	300	656	36,0	36,0	115,0	215,7	*X; Y; Z
FLS-300/0762-_-	762,0	430	500	300	681	35,0	35,5	120,0	224,5	*X; Y; Z
FLS-300/0812-_-	813,0	440	500	300	707	31,0	31,0	120,0	236,2	*X; Y; Z
FLS-300/0914-_-	914,0	470	500	300	757	50,0	50,0	170,0	316,3	*X; Y; Z
FLS-300/1016-_-	1016,0	500	500	300	808	43,0	43,0	155,0	341,5	*X; Y; Z

* Clamps rotated: X = 30°; Y = 45°; Z = 90°

**Sliding supports
HEAVY Type FLS 350 + height adjustable
DN 200 - DN 1000**



Sliding support/Heavy - Type FLS 350

DN 200 - DN 1000

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps for higher loads

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
FLS-350/0220-_-_-	219,1	200	400	350	460	21,0	21,0	88,0	61,8	*X; Z
FLS-350/0273-_-_-	273,0	230	400	350	487	21,0	21,0	87,0	68,7	*X; Z
FLS-350/0324-_-_-	323,9	260	400	350	512	21,5	21,5	90,0	76,5	*X; Z
FLS-350/0356-_-_-	355,6	280	400	350	528	23,0	23,0	96,0	84,2	*X; Z
FLS-350/0407-_-_-	406,4	300	400	350	553	35,0	35,0	150,0	135,7	*X; Z
FLS-350/0457-_-_-	457,0	320	400	350	579	35,0	35,0	150,0	152,0	*X; Z
FLS-350/0508-_-_-	508,0	350	500	350	604	32,0	32,0	109,0	181,2	*X; Y; Z
FLS-350/0609-_-_-	610,0	380	500	350	655	34,0	34,0	115,0	203,7	*X; Y; Z
FLS-350/0711-_-_-	711,0	410	500	350	706	33,5	33,5	108,0	224,7	*X; Y; Z
FLS-350/0762-_-_-	762,0	430	500	350	731	33,0	33,0	115,0	233,8	*X; Y; Z
FLS-350/0812-_-_-	813,0	440	500	350	757	29,5	29,5	116,0	245,6	*X; Y; Z
FLS-350/0914-_-_-	914,0	470	500	350	807	47,5	47,5	160,0	328,5	*X; Y; Z
FLS-350/1016-_-_-	1016,0	500	500	350	858	42,0	42,0	150,0	354,3	*X; Y; Z

Sliding support/Heavy - Type FLS; height adjustable

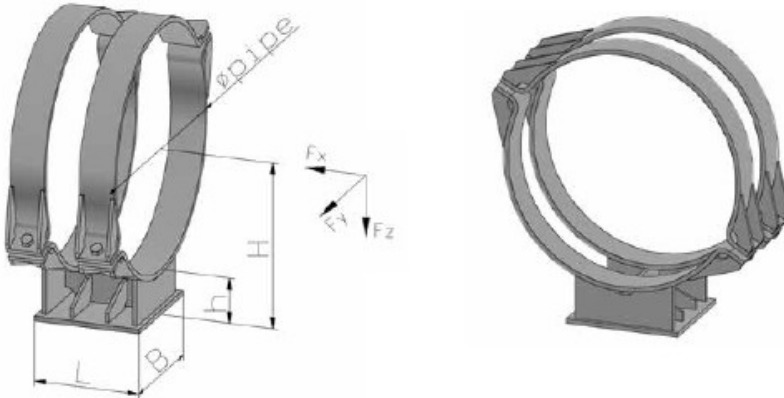
DN 200 - DN 1000

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps for higher loads

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
FLS-260/0762-_-_-	762	430	500	260	641	35,5	35,5	120,0	217,1	*X; Y; Z

* Clamps rotated: X = 30°; Y = 45°; Z = 90°

Sliding supports
HEAVY Type Y-FLS 200/260
DN 1200 - DN 1700



Sliding support/Heavy - Type Y-FLS 200/260

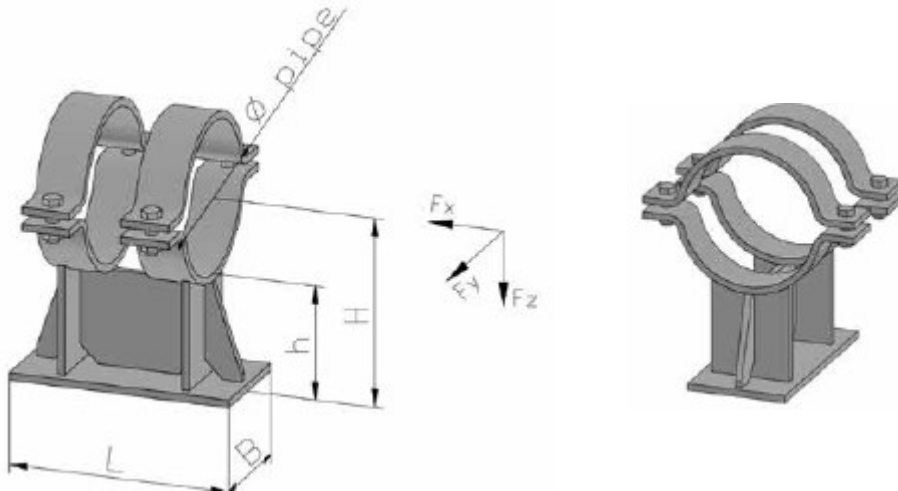
DN 1200 - DN 1700

Material	S355J2 DIN EN 10025-2, temperature up to 350°C
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps for higher loads

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
Y-FLS-200/1067-_-_-	1067,0	550	600	200	734	105,0	105,0	350,0	390,0	*X; Y
Y-FLS-200/1220-_-_-	1220,0	600	600	200	810	120,0	120,0	400,0	436,3	*X; Y
Y-FLS-200/1321-_-_-	1321,0	700	600	200	860	120,0	120,0	400,0	479,0	*X; Y
Y-FLS-200/1728-_-_-	1728,0	900	600	200	1064	120,0	120,0	400,0	725,2	*X; Y
Y-FLS-260/1067-_-_-	1067,0	550	600	260	794	105,0	105,0	350,0	417,8	*X; Y
Y-FLS-260/1220-_-_-	1220,0	600	600	260	870	120,0	120,0	400,0	465,6	*X; Y
Y-FLS-260/1321-_-_-	1321,0	700	600	260	920	120,0	120,0	400,0	511,4	*X; Y

* Clamps rotated: X = 30°; Y = 45°
Standard 30°

Sliding supports
HEAVY Type FLS 100 + 150
L = 600
DN 200 - DN 1000



Sliding support/Heavy - Type FLS 100; L=600

DN 200 - DN 1000

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps for higher loads

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
FLS-100/0220-_- L600	219,1	200	600	100	210	26,0	26,0	105,0	48,2	*X; Z
FLS-100/0273-_- L600	273,0	230	600	100	237	25,0	25,0	105,0	54,7	*X; Z
FLS-100/0324-_- L600	323,9	260	600	100	262	27,5	27,5	116,0	62,2	*X; Z
FLS-100/0356-_- L600	355,6	280	600	100	278	30,0	30,0	124,0	69,6	*X; Z
FLS-100/0407-_- L600	406,4	300	600	100	303	42,0	42,0	170,0	116,4	*X; Z
FLS-100/0457-_- L600	457,0	320	600	100	329	40,0	40,0	165,0	132,3	*X; Z
FLS-100/0508-_- L600	508,0	350	600	100	354	35,0	35,0	116,0	150,2	*X; Y; Z
FLS-100/0609-_- L600	610,0	380	600	100	405	36,5	36,5	127,0	171,9	*X; Y; Z
FLS-100/0711-_- L600	711,0	410	600	100	456	38,0	38,0	120,0	191,7	*X; Y; Z
FLS-100/0762-_- L600	762,0	430	600	100	481	38,0	38,0	120,0	200,7	*X; Y; Z
FLS-100/0812-_- L600	813,0	440	600	100	507	32,0	32,0	118,0	211,4	*X; Y; Z
FLS-100/0914-_- L600	914,0	470	600	100	557	50,0	50,0	175,0	283,3	*X; Y; Z
FLS-100/1016-_- L600	1016,0	500	600	100	608	46,0	46,0	155,0	307,5	*X; Y; Z

Sliding support/Heavy - Type FLS 150; L=600

DN 200 - DN 1000

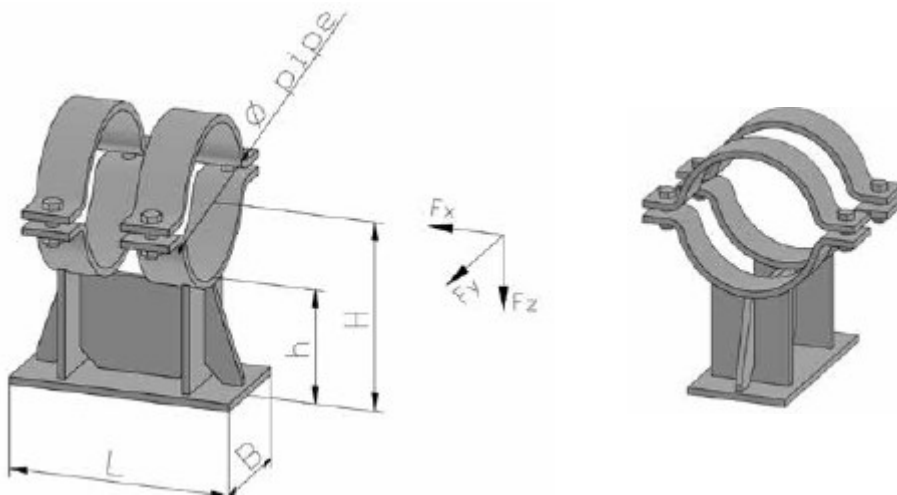
Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps for higher loads

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
FLS-150/0220-_- L600	219,1	200	600	150	260	30,0	30,0	121,0	52,5	*X; Z
FLS-150/0273-_- L600	273,0	230	600	150	287	30,0	30,0	125,0	59,4	*X; Z
FLS-150/0324-_- L600	323,9	260	600	150	312	30,0	30,0	125,0	67,3	*X; Z
FLS-150/0356-_- L600	355,6	280	600	150	328	32,0	32,0	135,0	74,9	*X; Z
FLS-150/0407-_- L600	406,4	300	600	150	354	45,0	45,0	185,0	123,7	*X; Z
FLS-150/0457-_- L600	457,0	320	600	150	379	42,0	42,0	180,0	139,9	*X; Z
FLS-150/0508-_- L600	508,0	350	600	150	404	42,0	42,0	140,0	158,6	*X; Y; Z
FLS-150/0609-_- L600	610,0	380	600	150	455	39,0	39,0	137,0	180,8	*X; Y; Z
FLS-150/0711-_- L600	711,0	410	600	150	506	42,0	42,0	130,0	201,1	*X; Y; Z
FLS-150/0762-_- L600	762,0	430	600	150	531	41,0	41,0	130,0	210,4	*X; Y; Z
FLS-150/0812-_- L600	813,0	440	600	150	557	34,0	34,0	132,0	221,3	*X; Y; Z
FLS-150/0914-_- L600	914,0	470	600	150	607	55,0	55,0	185,0	296,1	*X; Y; Z
FLS-150/1016-_- L600	1016,0	500	600	150	658	47,0	47,5	170,0	320,9	*X; Y; Z

* Clamps rotated: X = 30°; Y = 45°; Z = 90°

3.6.1.20

Sliding supports
HEAVY Type FLS 200 + 300
L = 600
DN 200 - DN 1000



Sliding support/Heavy - Type FLS 200; L=600

DN 200 - DN 1000

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps for higher loads

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
FLS-200/0220- - L600	219,1	200	600	200	310	28,0	28,0	115,0	56,9	*X; Z
FLS-200/0273- - L600	273,0	230	600	200	337	27,0	27,0	114,0	64,1	*X; Z
FLS-200/0324- - L600	323,9	260	600	200	362	27,5	27,5	116,0	72,3	*X; Z
FLS-200/0356- - L600	355,6	280	600	200	378	30,0	30,0	124,0	80,2	*X; Z
FLS-200/0407- - L600	406,4	300	600	200	403	43,0	43,0	180,0	130,9	*X; Z
FLS-200/0457- - L600	457,0	320	600	200	429	42,0	42,0	175,0	147,4	*X; Z
FLS-200/0508- - L600	508,0	350	600	200	454	40,0	40,0	135,0	167,1	*X; Y; Z
FLS-200/0609- - L600	610,0	380	600	200	505	36,0	36,0	126,0	189,7	*X; Y; Z
FLS-200/0711- - L600	711,0	410	600	200	556	41,0	41,0	129,0	210,5	*X; Y; Z
FLS-200/0762- - L600	762,0	430	600	200	581	41,0	41,0	130,0	220,2	*X; Y; Z
FLS-200/0812- - L600	813,0	440	600	200	607	34,0	34,0	132,0	231,2	*X; Y; Z
FLS-200/0914- - L600	914,0	470	600	200	657	55,0	55,0	185,0	308,9	*X; Y; Z
FLS-200/1016- - L600	1016,0	500	600	200	708	46,0	46,0	165,0	334,3	*X; Y; Z

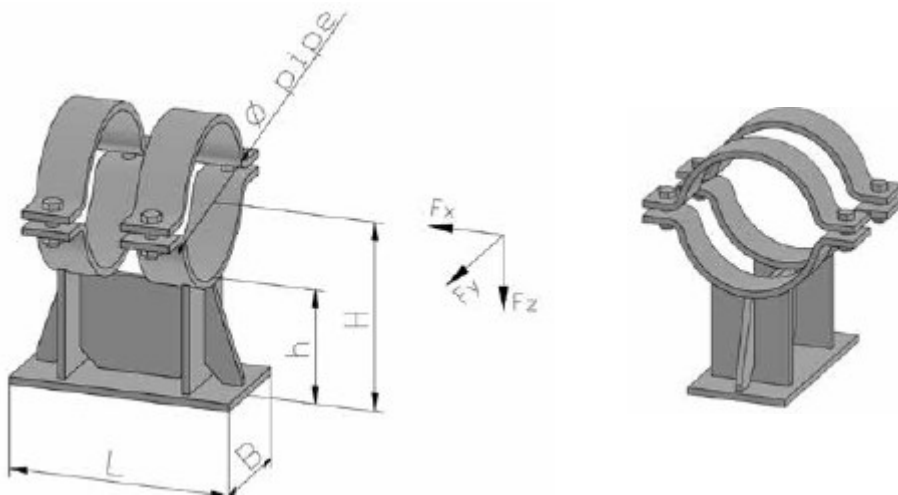
Sliding support/Heavy - Type FLS 300; L=600

DN 200 - DN 1000

Material	S235JR DIN EN 10025-2, temperatur up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps for higher loads

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
FLS-300/0220- - L600	219,1	200	600	300	410	23,0	23,0	95,0	65,5	*X; Z
FLS-300/0273- - L600	273,0	230	600	300	437	23,0	23,0	95,0	73,4	*X; Z
FLS-300/0324- - L600	323,9	260	600	300	462	23,3	23,3	98,5	82,4	*X; Z
FLS-300/0356- - L600	355,6	280	600	300	478	25,0	25,0	104,0	90,7	*X; Z
FLS-300/0407- - L600	406,4	300	600	300	503	38,0	38,0	160,0	145,4	*X; Z
FLS-300/0457- - L600	457,0	320	600	300	529	37,0	37,0	158,0	162,6	*X; Z
FLS-300/0508- - L600	508,0	350	600	300	554	34,0	34,0	115,0	183,9	*X; Y; Z
FLS-300/0609- - L600	610,0	380	600	300	605	35,0	35,0	124,0	207,6	*X; Y; Z
FLS-300/0711- - L600	711,0	410	600	300	656	36,0	36,0	115,0	229,3	*X; Y; Z
FLS-300/0762- - L600	762,0	430	600	300	681	35,0	35,5	120,0	239,6	*X; Y; Z
FLS-300/0812- - L600	813,0	440	600	300	707	31,0	31,0	120,0	251,0	*X; Y; Z
FLS-300/0914- - L600	914,0	470	600	300	757	50,0	50,0	170,0	334,5	*X; Y; Z
FLS-300/1016- - L600	1016,0	500	600	300	808	43,0	43,0	155,0	361,1	*X; Y; Z

Sliding supports
HEAVY Type FLS 350
L = 600
DN 200 - DN 1000



Sliding support/Heavy - Type FLS 350; L=600

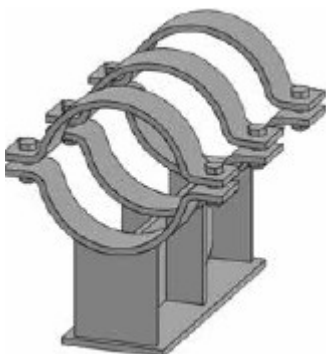
DN 200 - DN 1000

Material	S235JR DIN EN 10025-2, temperature up to 350°C , other material optional
Finish	Hot dip galvanized, complete with bolts and nuts 8.8/8 hot dip galvanized (DIN EN ISO 898) Pipe clamps for higher loads

Type	Pipe Ø	B	L	h (BOP) mm	H (MOP) mm	Loads (kN) ved 100°C			Weight kg	Clamps rotated
						F _x	F _y	F _z		
FLS-350/0220- - L600	219,1	200	600	350	460	21,0	21,0	88,0	69,8	*X; Z
FLS-350/0273- - L600	273,0	230	600	350	487	21,0	21,0	87,0	78,1	*X; Z
FLS-350/0324- - L600	323,9	260	600	350	512	21,5	21,5	90,0	87,4	*X; Z
FLS-350/0356- - L600	355,6	280	600	350	528	23,0	23,0	96,0	96,0	*X; Z
FLS-350/0407- - L600	406,4	300	600	350	553	35,0	35,0	150,0	152,6	*X; Z
FLS-350/0457- - L600	457,0	320	600	350	579	35,0	35,0	150,0	170,1	*X; Z
FLS-350/0508- - L600	508,0	350	600	350	604	32,0	32,0	109,0	192,4	*X; Y; Z
FLS-350/0609- - L600	610,0	380	600	350	655	34,0	34,0	115,0	216,5	*X; Y; Z
FLS-350/0711- - L600	711,0	410	600	350	706	33,5	33,5	108,0	238,7	*X; Y; Z
FLS-350/0762- - L600	762,0	430	600	350	731	33,0	33,0	115,0	249,3	*X; Y; Z
FLS-350/0812- - L600	813,0	440	600	350	757	29,5	29,5	116,0	260,8	*X; Y; Z
FLS-350/0914- - L600	914,0	470	600	350	807	47,5	47,5	160,0	347,3	*X; Y; Z
FLS-350/1016- - L600	1016,0	500	600	350	858	42,0	42,0	150,0	374,5	*X; Y; Z

* Clamps rotated: X = 30°; Y = 45°; Z = 90°

Others on request; ask for information:



Technical information

Expert advice

With our many years of experience as suppliers to the pipeline and plant construction industries we are well placed to assist you with expert advice on the design and detail for large-scale projects including. We can provide tailor made solutions for specific problems and applications.

Loads

The calculation loads mentioned in this document were made with statically models under certain conditions and parameters. All possible care is taken compliance and applicable technical regulations and applicable standards, guarantees are given against the loads for the static cases shown in the catalog, these are approximate values. Liabilities for the particular application cannot be derived. Any unauthorized variations or changes would invalidate any warranty and guarantee on our part.

Materials

The materials and characteristics are in accordance to the corresponding standards and should be used as the minimum requirement. For the characteristics and quality, Bernecker would only accept warranty in combination with an inspection certificate 3.1

Special design

For your individual requirements we also offer special pipe supports. Either as a variant production through the use of other:

- materials (e.g. P265GH, P275NL1)
- coatings (e.g. Duplex)
- diameter (e.g. RA-102-R)
- lengths (e.g. GLY-200/324L500-RB3)
- heights (e.g. GLY-75/324-RB3)

or according to your specifications routines or static specification.

General tolerances

The general tolerances are for lengths, angles, shape and location in accordance with ISO 2768-cL and 13920-1-CG.

SI units (metric)

The physical quantities are stated in SI units as follows:

- Dimensions in **mm**
 - Loads in **kN**
 - Temperatures at **80°**
 - Weights in **kg**
- if not stated otherwise.

Heat treatment

We can hot form and heat treat components to order, e.g. stress-free annealing, normalizing or hardening of high temperature materials. On request we supply a diagram of the heat treatment and temperature curve of the heat treated components supplied.

Corrosion protection and surface finishes

Components

- The corrosion protection of our components in accordance with DIN EN ISO 12944.
- Hot-dip galvanized components is standard galvanized to DIN EN ISO 1461 or ASTM 123.
- Prepare acc. To ISO 8501-3-P1 (edges broken and burr free)
- According to your needs and specifications we can also provide our component parts with the following surface treatment:
Blasting (acc. To 8501-1 SA2 1/2)
pickling, oiling, basic coating, painting or galvanic surface treatment.

Complement

- Hot-dip galvanized screwing acc. to DIN EN ISO 10684 (tZn)
- Galvanized screwing acc. to ISO 4042 (A2A or superior)
- The coatings tZn and A2A are chrome (IV)-free

Prefabrication service supplied complete to site

As a specialist manufacturer in the field of pipe supports we can fabricate all supports and ancillaries for you ready to install, complete with labeling, to order. Pre-assembled components with hard stamped article-name can optimize the assembling process and allow time savings on site, however, it is an additional service.

Acceptance/Certificates

On request we can supply our pipe support products to DIN EN 10204 with:

- acceptance test certificate 3.1
- certificate of compliance 2.2 / 2.1

We can arrange for acceptance tests (NDT, etc.) to be carried out by the TÜV or other inspectorate on our premises if required. Inspections by our customers can be arranged at any time.

Our safety is your guarantee

We operate in a quality assurance system that is certified to DIN ISO 9001. This is your guarantee that we will turn your specifications and requirements into a fully functional and reliable system that is right for the job.

Registrations (Status in 05/2019)

DIN ISO 9001:2008 (quality management)

AD2000 W-0 (certification acc. To pressure equipment directive)

DIN EN 1090-1 (requirements for conformity assessment of structural components)

DIN EN ISO 3834-2 (comprehensive quality)

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Our general terms and conditions apply.

Regular screwing AD 2000 / VGB R 510 L		
Material	Strenght i.a.w. DIN 267-13	Temp.
	Bolt/nut	
S235JR	8.8 / 8	≤ 300°C
S355J2+N	8.8 / 8	≤ 300°C
P265GH	KG / KG	≤ 450°C
16Mo3	KG / KG	≤ 500°C
13CrMo4-5	GA / GA	≤ 530°C
10CrMo9-10	GA / GA	≤ 580°C
X6CrNi 18 10	A4 / A4	≤ 580°C
X6CrNiMoTi 17-12-2	A4 / A4	≤ 580°C

Conversion factors for the loads given in the catalogue at other temperatures.
(Loads should only be converted for the same material, never from one material to another)

Material	Nr.	DIN	20°/50°	100°	150°	200°	250°	300°	350°	400°	450°	500°	520°	540°	560°
S235JR	1.0038	EN 10025-2	1,35	1,07	1,00	0,93	0,82	0,70							
16Mo3	1.5415	EN 10028-2	1,40	1,34	1,29	1,25	1,15	1,00	0,90	0,85	0,80	0,57	0,34		
13CrMo4-5	1.7335	EN 10028-2	1,56	1,49	1,45	1,40	1,30	1,20	1,10	1,05	1,00	0,88	0,58	0,36	0,24
10CrMo9-10	1.7380	EN 10028-2	1,35	1,31	1,28	1,25	1,20	1,15	1,10	1,05	1,00	0,95	0,73	0,52	0,36
X6CrNiTi 18 10	1.4541	DIN 17440	1,00	0,93	0,88	0,83	0,77	0,72	0,68	0,66					
X6CrNiMoTi 17-12-2	1.4571	DIN 17440	1,00	0,90	0,86	0,81	0,76	0,70	0,68	0,66					