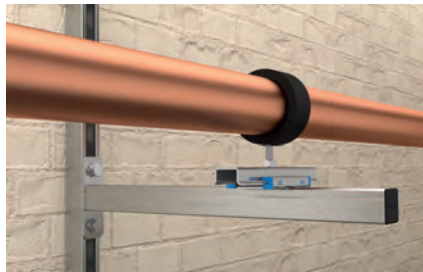# Cantilever arm FCA

FUS profiles with welded base plate for direct mounting on the base material

2c

Refrigerant pipe clamp on sliding element

Heavy pipe on cantilever

Applications

· Quick and easy installation of pipelines (e.g. along the wall)

Certificates

Fire resistance classification R120

MLAR R30

Advantages/benefits

· The fire inspection report in line with MLAR/EN13501 guarantees independently tested functional safety.
· The graduated range of lengths allows for an ideal adaptation to the application.
· The arm's solid base plate offers a secure hold for load-bearing construction.
· The base plate's long slots, which are at 90° to one another, allow the arm to be easily aligned.
· The stamped teeth in the channel gives the sliding nuts a secure hold for high shear loads, e.g. for vertical installation.
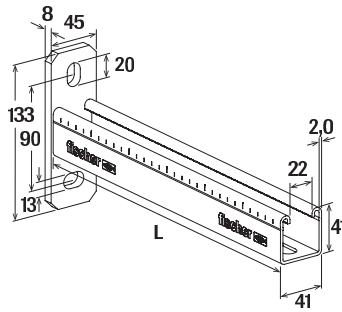
Properties

· Material: steel S235 JR (material no.: 1.0037) acc. to DIN EN 10025
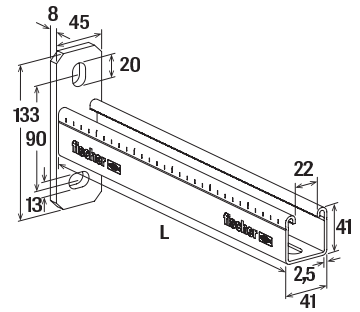· Zinc plating: electro zinc-plated, min. 8 μm

Technical data
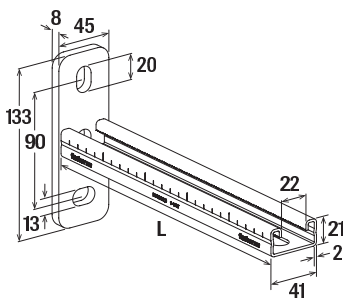
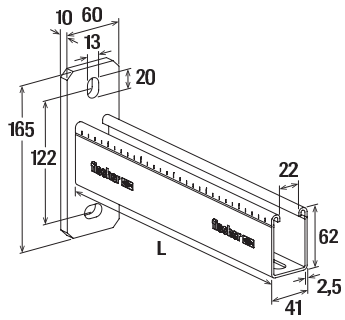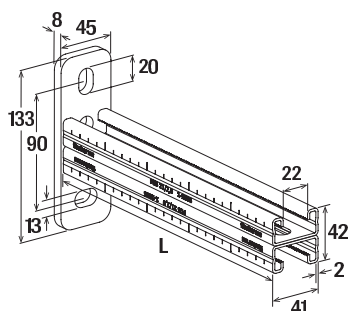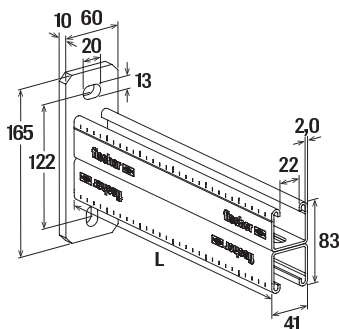FCA 21

FCA 41/2,0

FCA 41

FCA 62

Item	Item No.	Fire test report	Profile	Length L [mm]	Sales unit [pcs]
FCA 21 - 200	537207	–	21/2,0	200	1
FCA 21 - 300	537208	–	21/2,0	300	1
FCA 21 - 450	537209	–	21/2,0	450	1
FCA 41/2,0 - 300	559915	–	41/2,0	300	1
FCA 41/2,0 - 450	559916	–	41/2,0	450	1
FCA 41/2,0 - 600	559917	–	41/2,0	600	1
FCA 41/2,0 - 750	559918	–	41/2,0	750	1
FCA 41/2,0 - 1000	559919	–	41/2,0	1000	1
FCA 41 - 300	077359	X	41/2,5	300	1
FCA 41 - 450	077361	X	41/2,5	450	1
FCA 41 - 600	077363	X	41/2,5	600	1
FCA 41 - 750	077365	X	41/2,5	750	1
FCA 62 - 1000	504315	X	62/2,5	1000	1

Technical data

FCA 21D

FCA 41D/2,0

FCA 41D

2c
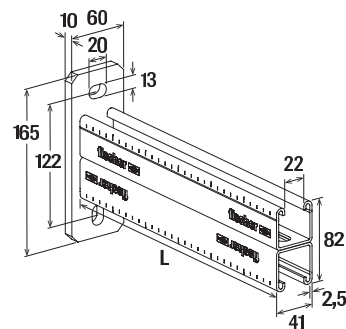
Item	Item No.	Fire test report	Profile	Length L [mm]	Sales unit [pcs]
FCA 21D - 300	536978	—	21D/2,0	300	1
FCA 21D - 450	536979	—	21D/2,0	450	1
FCA 21D - 600	536980	—	21D/2,0	600	1
FCA 41D/2,0 - 750	559920	—	41D/2,0	750	1
FCA 41D/2,0 - 1000	559921	—	41D/2,0	1000	1
FCA 41D - 750	504317	—	41D/2,5	750	1
FCA 41D - 1000	504319	—	41D/2,5	1000	1

Loads

Item	Item No.	Max. recommended static load load case 1 F_{rec} [kN]	Max. recommended static load load case 2 F_{rec} [kN]	Max. recommended static load load case 3 F_{rec} [kN]
FCA 21 - 200	537207	1.43	0.72	1.43
FCA 21 - 300	537208	0.95	0.45	0.95
FCA 21 - 450	537209	0.65	0.21	0.65
FCA 41/2,0 - 300	559915	1.8	0.9	1.8
FCA 41/2,0 - 450	559916	1.2	0.6	1.2
FCA 41/2,0 - 600	559917	0.9	0.45	0.9
FCA 41/2,0 - 750	559918	0.72	0.36	0.72
FCA 41/2,0 - 1000	559919	0.54	0.23	0.54
FCA 41 - 300	077359	1.8	0.9	1.8
FCA 41 - 450	077361	1.2	0.6	1.2
FCA 41 - 600	077363	0.9	0.45	0.9
FCA 41 - 750	077365	0.72	0.36	0.72
FCA 62 - 1000	504315	1.25	0.62	1.25
FCA 21D - 300	536978	1.83	0.92	1.83
FCA 21D - 450	536979	1.24	0.62	1.24
FCA 21D - 600	536980	0.92	0.46	0.92
FCA 41D/2,0 - 750	559920	2.5	1.25	2.5
FCA 41D/2,0 - 1000	559921	1.9	0.93	1.9
FCA 41D - 750	504317	2.5	1.25	2.5
FCA 41D - 1000	504319	1.9	0.93	1.9

Load case 1

Load case 2

Load case 3

F = q x L

2c

FCA 21

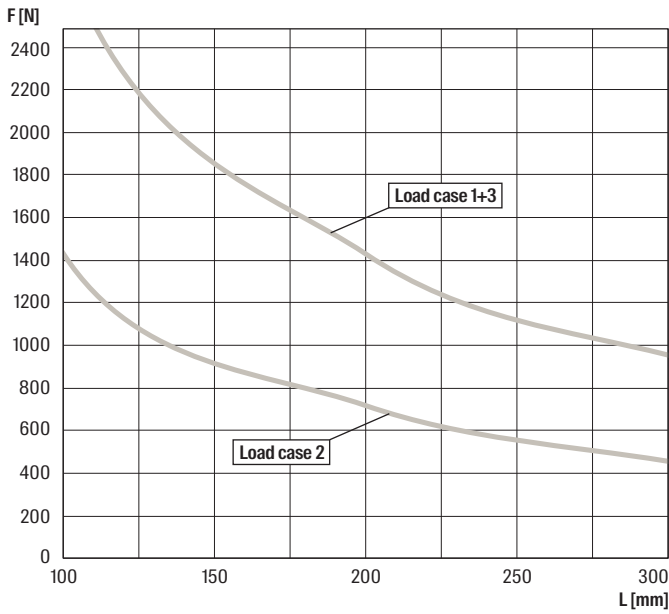F [N]

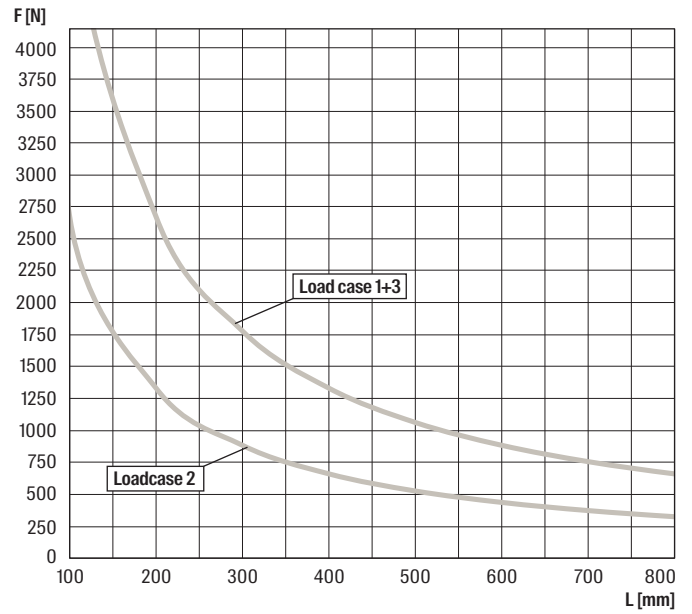Load case 1+3

Load case 2
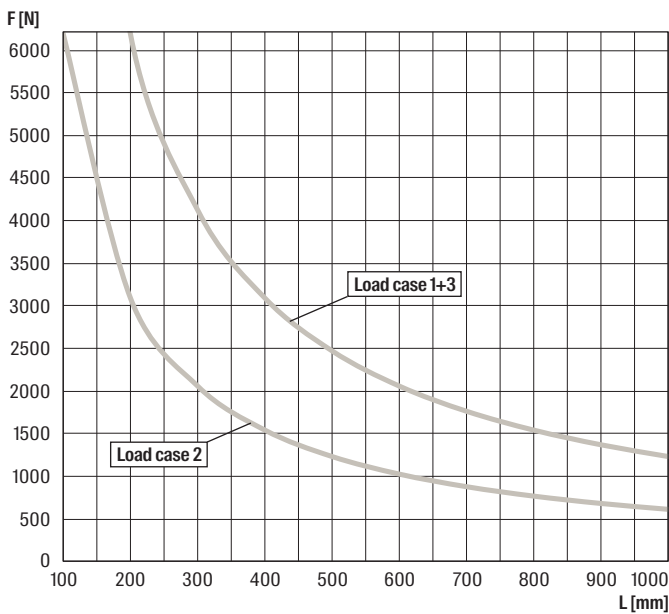
L [mm]

FCA 41

F [N]

Load case 1+3

Loadcase 2

L [mm]

For the load curves, the permissible steel strain $\delta_{adm.}$ = 160 N/mm and the maximum deflection under load L/150 are not exceeded. Load values of the cantilever arms under consideration of the load capacity of the base plate. Fixings and screw fastenings must be calculated accordingly.

FCA 62

F [N]

Load case 1+3

Load case 2

L [mm]

For the load curves, the permissible steel strain $\delta_{adm.}$ = 160 N/mm and the maximum deflection under load L/150 are not exceeded. Load values of the cantilever arms under consideration of the load capacity of the base plate. Fixings and screw fastenings must be calculated accordingly.
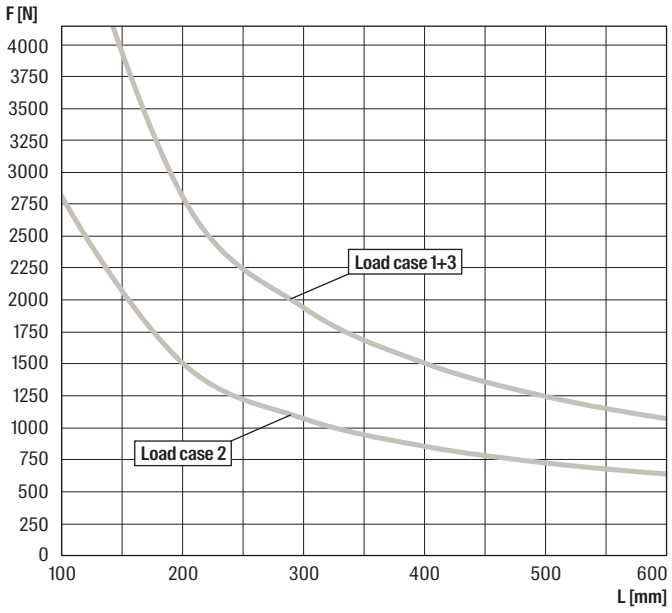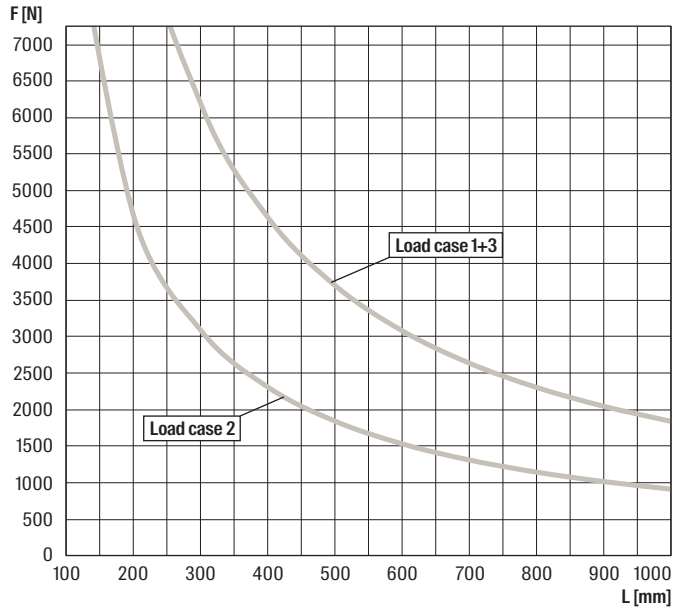
FCA 21D

FCA 21D

F [N]

FCA 41D

F [N]

For the load curves, the permissible steel strain $\delta_{adm.}$ = 160 N/mm and the maximum deflection under load L/150 are not exceeded. Load values of the cantilever arms under consideration of the load capacity of the base plate. Fixings and screw fastenings must be calculated accordingly.