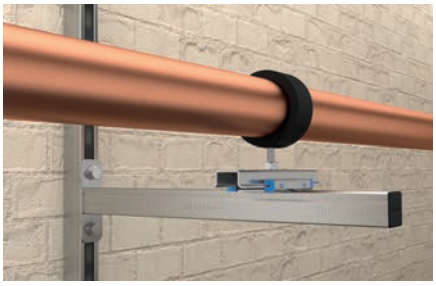
Cantilever arm FCA

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



Refrigerant pipe clamp on sliding element

Heavy pipe on cantilever

Applications

- Quick and easy installation of pipelines (e.g. along the wall)
- For use in dry indoor areas.

Certificates

R 120

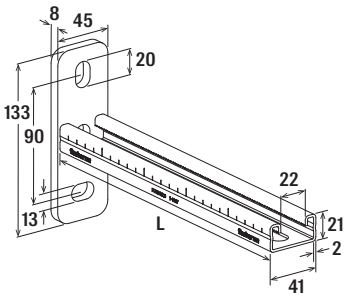
R 30 MLAR

Advantages

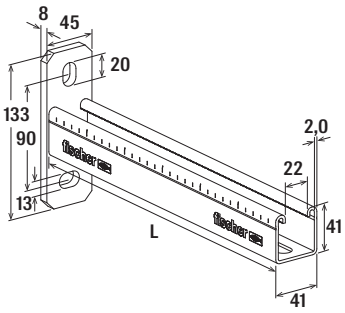
- The fire inspection report in line with MLAR/EN13501 guarantees independently tested functional safety.
- The graduated range of lengths allows for an ideal adaptation to the application.
- The arm's solid base plate offers a secure hold for load-bearing construction.
- The base plate's long slots,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

Properties

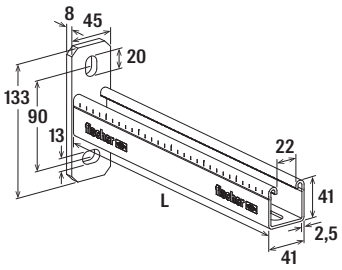
- Material: steel S235JR (material no. 1.0037) acc. to DIN EN 10025
- Zinc plating: electro zinc-plated



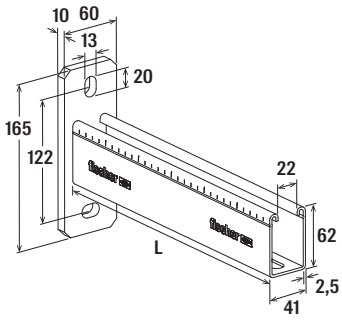
FCA 21/2.0



FCA 41/2.0



FCA 41/2.5

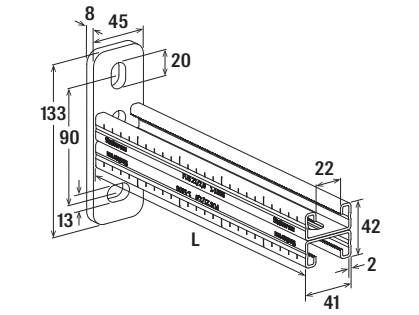


FCA 62/2.5

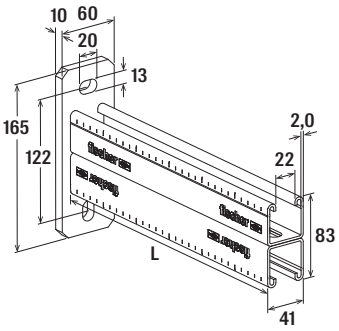
Technical data

Item	Item no.	Fire test report	Profile	Length L [mm]	Sales unit [pcs]
FCA 21/2.0 - 200	**537207**	–	21 / 2.0	200	1
FCA 21/2.0-300	**537208**	–	21 / 2.0	300	1
FCA 21/2.0 - 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 - 1,000	**559919**	–	41 / 2,0	1,000	1
FCA 41/2.5 - 300	**077359**	Yes	41 / 2.5	300	1
FCA 41/2.5 - 450	**077361**	Yes	41 / 2.5	450	1
FCA 41/2.5 - 600	**077363**	Yes	41 / 2.5	600	1
FCA 41/2.5 - 750	**077365**	Yes	41 / 2.5	750	1
FCA 62/2.5 - 1,000	**504315**	Yes	62 / 2.5	1,000	1

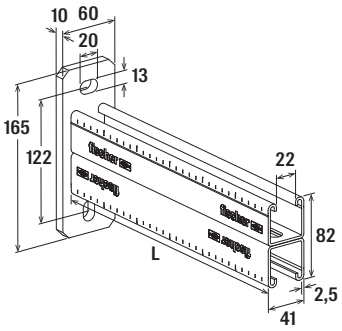
For load information under fire exposure, see chapter Basic knowledge.



FCA 21D/2.0



FCA 41D/2.0



FCA 41D/2.5

4

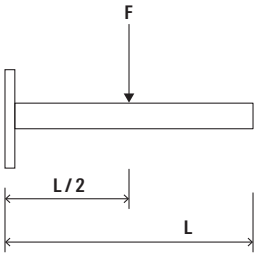
Technical data

Item	Item no.	Profile	Length L [mm]	Sales unit [pcs]
FCA 21D/2.0 - 300	536978	21D / 2.0	300	1
FCA 21D/2.0 - 450	536979	21D / 2.0	450	1
FCA 21D/2.0 - 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	1,000	1
FCA 41D/2.5 - 750	504317	41D / 2.5	750	1
FCA 41D/2.5 - 1,000	504319	41D / 2.5	1,000	1

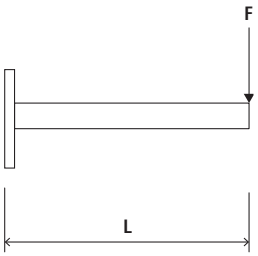
Loads

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]	Sales unit [pcs]
FCA 21/2.0 - 200	537207	1.43	0.72	1.43	1
FCA 21/2.0-300	537208	0.95	0.45	0.95	1
FCA 21/2.0 - 450	537209	0.65	0.21	0.65	1
FCA 41/2.0 - 300	559915	1.80	0.90	1.80	1
FCA 41/2.0 - 450	559916	1.20	0.60	1.20	1
FCA 41/2.0 - 600	559917	0.90	0.45	0.90	1
FCA 41/2.0 - 750	559918	0.72	0.36	0.72	1
FCA 41/2.0 - 1,000	559919	0.54	0.23	0.54	1
FCA 41/2.5 - 300	077359	1.80	0.90	1.80	1
FCA 41/2.5 - 450	077361	1.20	0.60	1.20	1
FCA 41/2.5 - 600	077363	0.90	0.45	0.90	1
FCA 41/2.5 - 750	077365	0.72	0.36	0.72	1
FCA 62/2.5 - 1,000	504315	1.25	0.62	1.25	1
FCA 21D/2.0 - 300	536978	1.83	0.92	1.83	1
FCA 21D/2.0 - 450	536979	1.24	0.62	1.24	1
FCA 21D/2.0 - 600	536980	0.92	0.46	0.92	1
FCA 41D/2,0 - 750	559920	2.50	1.25	2.50	1
FCA 41D/2,0 - 1000	559921	1.90	0.93	1.90	1
FCA 41D/2.5 - 750	504317	2.50	1.25	2.50	1
FCA 41D/2.5 - 1,000	504319	1.90	0.93	1.90	1

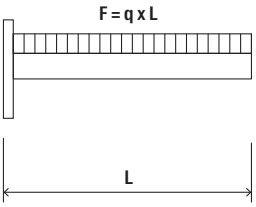
Load case 1



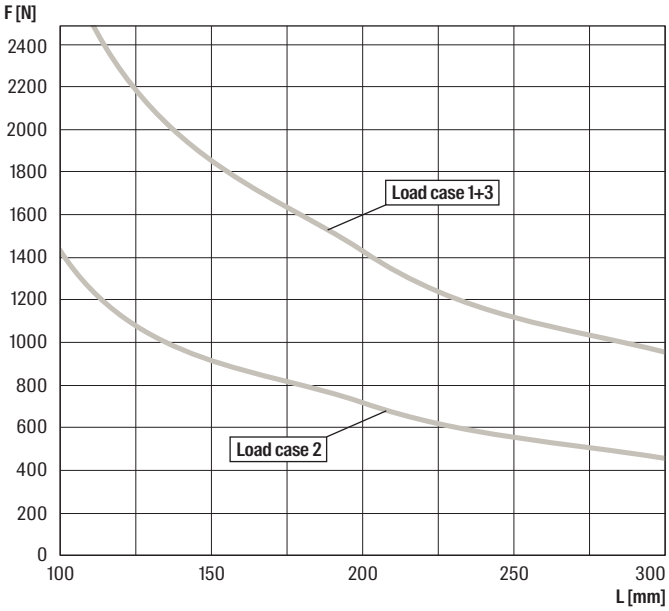
Load case 2



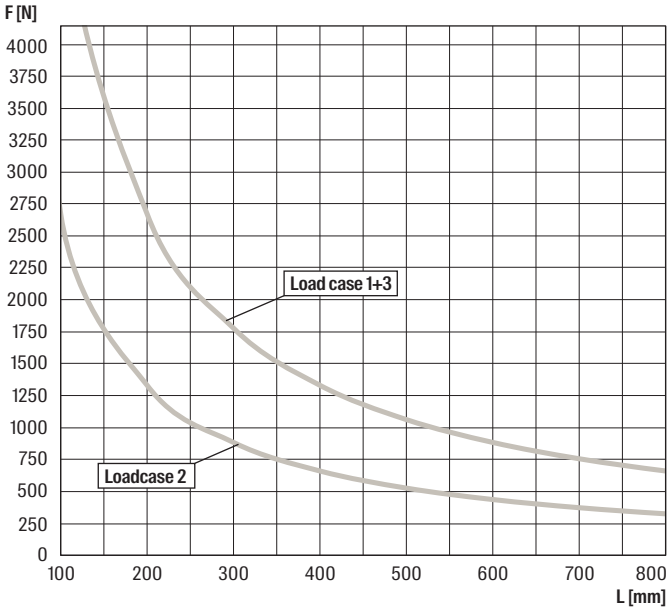
Load case 3



FCA 21

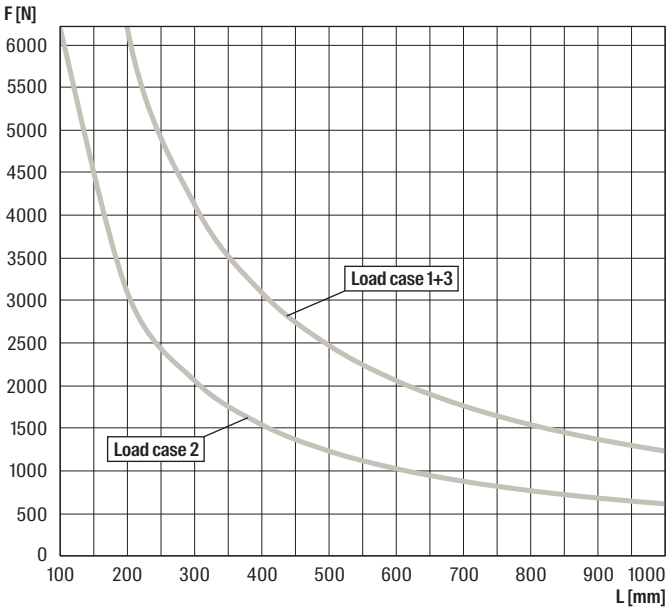


FCA 41



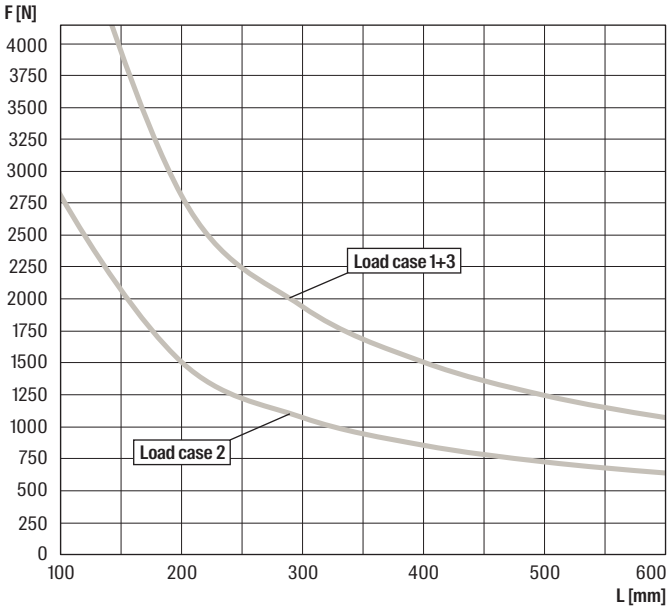
For the load curves, the permissible steel strain $\delta_{adm.}$ = 160 N/mm and the maximum deflection under load L/150 are not exceeded. Load values of the cantilever arms under consideration of the load capacity of the base plate. Fixings and screw fastenings must be calculated accordingly. The load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

FCA 62

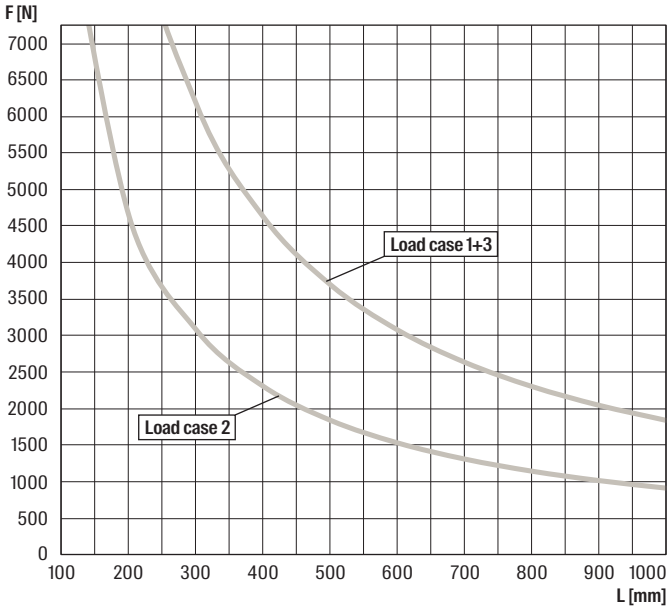


For the load curves, the permissible steel strain $\delta_{adm.}$ = 160 N/mm and the maximum deflection under load L/150 are not exceeded. Load values of the cantilever arms under consideration of the load capacity of the base plate. Fixings and screw fastenings must be calculated accordingly. The load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

FCA 21D



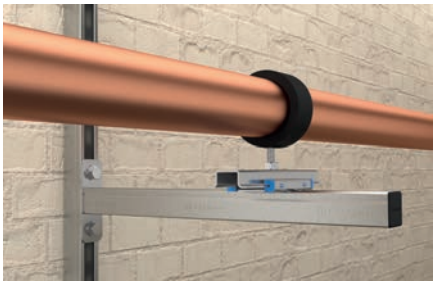
FCA 41D



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. The load curves are valid for all material thicknesses of the FCA brackets.

Cantilever arm FCA hdg

Hot-dip galvanised FUS profiles with welded base plate for direct mounting on the base material



Refrigerant pipe clamp on sliding element

Heavy pipe on cantilever

Applications

- Quick and easy installation of pipelines, for example, along the wall.
- For indoor and outdoor application.

Certificates

R 120

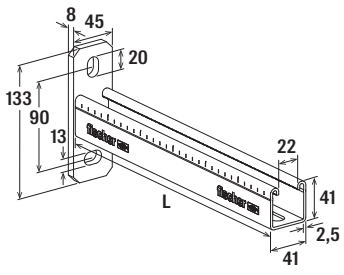
R 30 MLAR

Advantages

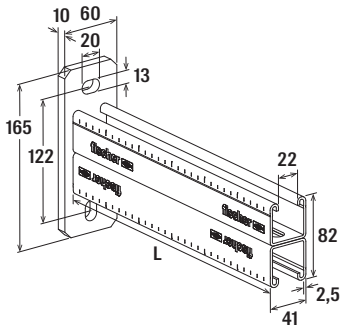
- The fire inspection report in line with MLAR/EN13501 guarantees indipendently tested functional safety.
- The graduated range of lengths allows for an ideal adaptation to the application.
- The arms solid base plate offers a secure hold for load-bearing construction.
- The base plate's long slots,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

Properties

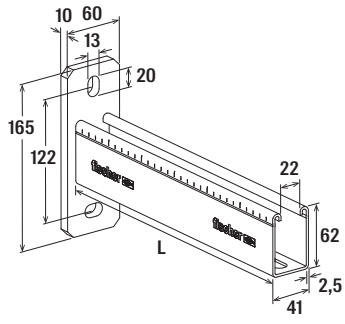
- Material: steel S235JR (material no.1.0037) acc. to DIN EN 10025
- Zinc plating: hot-dip galvanised



FCA 41/2.5



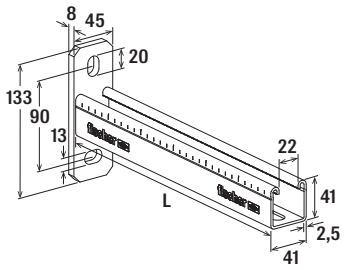
FCA 41D/2.5



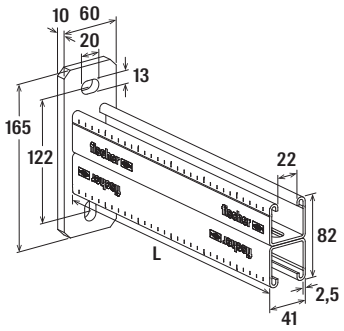
FCA 62/2.5

Technical data

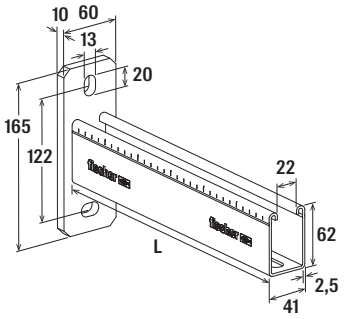
Item	Item no.	Fire test report	Profile	Length L [mm]	Sales unit [pcs]
FCA 41/2.5 - 300 hdg	517411	Yes	41 / 2.5	300	1
FCA 41/2.5 - 450 hdg	517412	Yes	41 / 2.5	450	1
FCA 41/2.5 - 600 hdg	517413	Yes	41 / 2.5	600	1
FCA 41/2.5 - 750 hdg	517414	Yes	41 / 2.5	750	1



FCA 41/2.5



FCA 41D/2.5



FCA 62/2.5

Technical data

Item	Item no.	Fire test report	Profile	Length L [mm]	Sales unit [pcs]
FCA 62/2.5 - 1000 hdg	538015	Yes	62 / 2.5	1,000	1
FCA 41D/2.5 - 750 hdg	538016	–	41D / 2.5	750	1
FCA 41D/2.5 - 1.000 hdg	538017	–	41D / 2.5	1,000	1

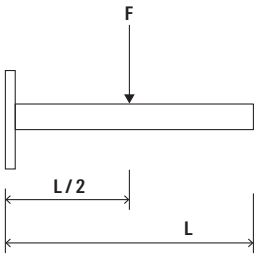
10

For load information under fire exposure, see chapter Basic knowledge.

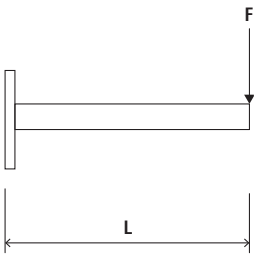
Loads

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]	Sales unit [pcs]
FCA 41/2.5 - 300 hdg	517411	1.80	0.90	1.80	1
FCA 41/2.5 - 450 hdg	517412	1.20	0.60	1.20	1
FCA 41/2.5 - 600 hdg	517413	0.90	0.45	0.90	1
FCA 41/2.5 - 750 hdg	517414	0.72	0.36	0.72	1
FCA 62/2.5 - 1000 hdg	538015	1.25	0.62	1.25	1
FCA 41D/2.5 - 750 hdg	538016	2.50	1.25	2.50	1
FCA 41D/2.5 - 1.000 hdg	538017	1.90	0.64	1.90	1

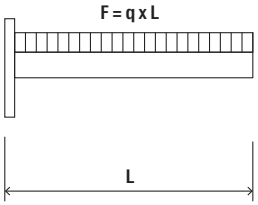
Load case 1



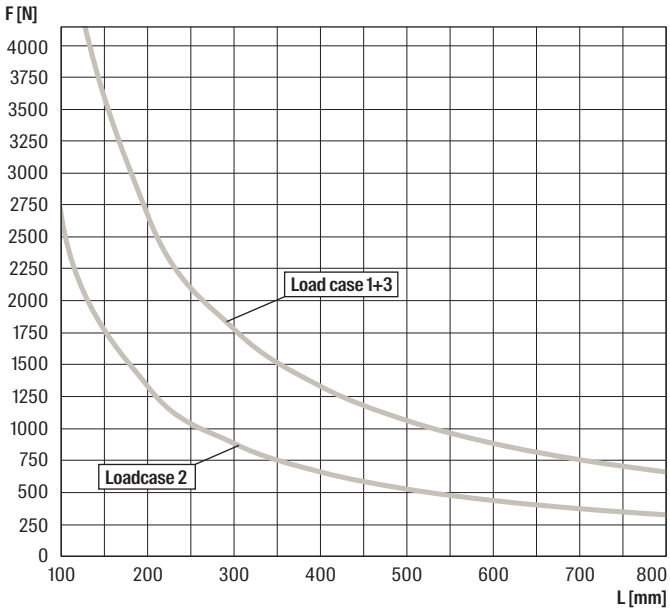
Load case 2



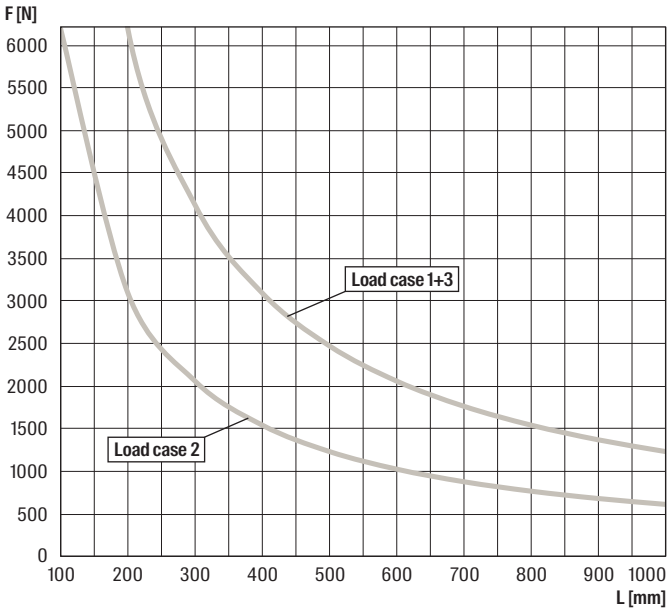
Load case 3



FCA 41



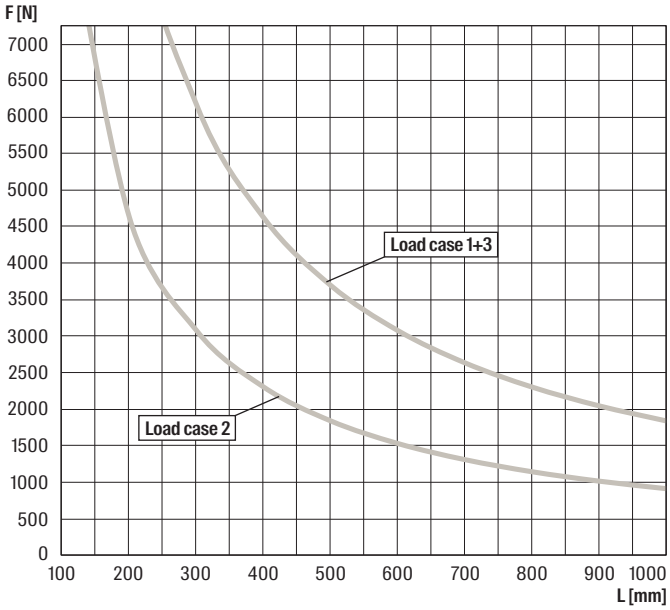
FCA 62



10

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. The load curves are valid for all material thicknesses of the FCA brackets.

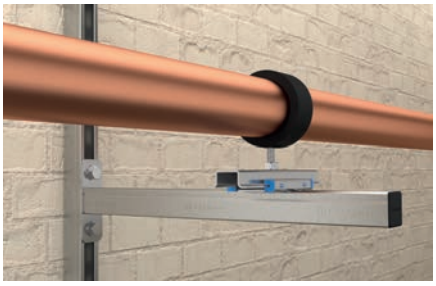
FCA 41D



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. The load curves are valid for all material thicknesses of the FCA brackets.

Cantilever arm FCA A4

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



Refrigerant pipe clamp on sliding element

Heavy pipe on cantilever

Applications

- Quick and easy installation of pipelines (e.g. along the wall)
- For indoor and outdoor application and in environments with high stress to components due to corrosion

Certificates

R 120

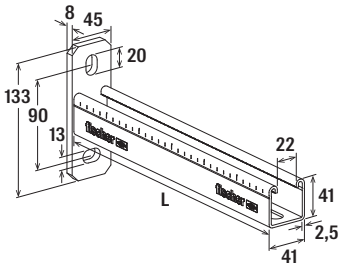
R 30 MLAR

Advantages

- The fire inspection report in line with MLAR/EN13501 guarantees independently tested functional safety.
- 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: stainless steel A4 (material no. 1.4404)



FCA 41/2.5

Technical data

Item	Item no.	Fire test report	Profile	Length L [mm]	Sales unit [pcs]
FCA 41/2.5 A4 - 300	505487	Yes	41 / 2.5	300	1
FCA 41/2.5 A4 - 450	505488	Yes	41 / 2.5	450	1
FCA 41/2.5 A4 - 600	505489	Yes	41 / 2.5	600	1

For loads and weight of channels and cantilever arms see from pages 116 and 126.
For load information under fire exposure, see chapter Basic knowledge.