

Datasheet

Pipe Supports for PU-foam insulated Pipes

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The pipe support system series 34 is optimized for supporting off PU-foam insulated pipes with the following features:

- Product pipe NS 1/2" ... 6", other dimensions on request
- Insulation cover diametre 101...280 mm, other dimensions on request
- Support is fixed/clamped at the insulation cover, wich prevents all kind off heat loss from product pipe to pipe rack / steel construction
- Supports can be fixed to all standard steel profiles by use off special clamp system
- Supports can be used for the following functions:
 - Fix point support
 - 1D linear moving support
 - 2D linear moving support

All supports can be changed to the other types by changing minor parts.

- Material: ASTM A395, all surfaces 100% zink plated other surface protection systems on request
- All bolts/nuts in SS other material on request
- Supports suitable for high forces by optimized linear moving parts and high clamp forces even when using very thin insulation covers
- All supports can be used in standing and hanging position
- Supports can also be used with PU-foam insulated support spools and standard mineral wool insulation for cryogenic applications

A complete set off the pipe support consists off the following parts:

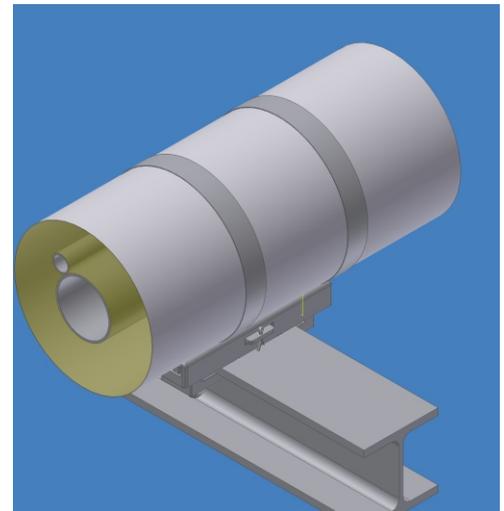
- Lower support bar
- Upper support bar
- 2 fix clamps (fix point and 1D linear support) or 2 free clamps (2D lienar support)
- 2 hex. bolts with 2 nuts and washers
- Pipe holder
- 2 clamp tapes with fixer to connect pipe + support

The pipe support is fixed to the insulation cover by use off a standard tool to fix the 2 clamp tapes.

This work can be done easily on all erections sites on pipe racks, in production building etc..

The following options can be delivered on request:

- Other pipe dimensions
- Other materials
- Other surface protection systems, for example plastic coating in all standard RAL colours



Picture 1
Isometric drawing of fix point support
With insulation cover diam. 224mm



Picture 2
Fix point support, standing
Product pipe 3" with PU-foam insulation diam. 180mm



Picture 3
1D linear support, hanging
Product pipe 3" with PU-foam insulation diam. 180mm

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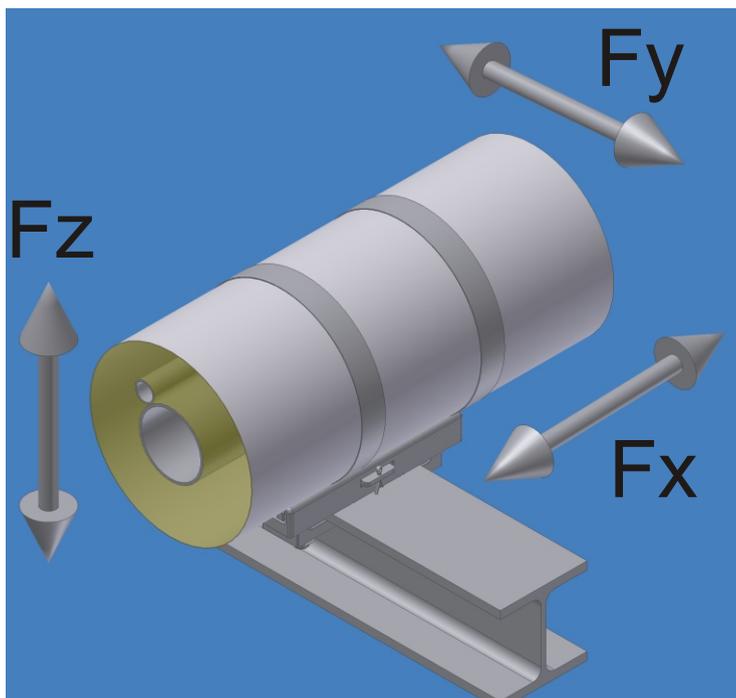
Table 1: Material list with material specification (standard type)

Pos.	Name	Art.-No.	ME	Pcs/unit	used for	Material	Surf. protection
1	Lower support	BR0034-0001	pc	1	all	A395	zink plated
2	Upper support	BR0034-0002	pc	1	all	A395	zink plated
3	Linear clamp	BR0034-0003	pc	2	GL/GLA	A395	zink plated
4	Fix clamp	BR0034-0004	pc	2	FL/FP	A395	zink plated
5	Fix plate	BR0034-0009	pc	1	FP/GLA	SS	not neces sary
6	Hex. bolt DIN931-1 M16x55	WN0001-0001	pc	2	all	A2-70	not neces sary
7	Hex. nut DIN934 M16	WN0002-0001	pc	2	all	A2-70	not neces sary
8	Washer DIN125-1 Form A d=17	WN0003-0001	pc	2	all	A2-70	not neces sary
9	Pin locker DIN EN ISO 1234 4x18	WN0004-0001	pc	2	FP/GLA	A2-70	not neces sary
10	Clamp tape 32x 1	WN0102-0001	pc	2	all	SS	not neces sary
11	Clamp 32x1	WN0101-0001	pc	2	all	SS	not neces sary

FL=1D linear support / FP=Fix point support / GL=2D linear support / GLA=2D linear support with axial stop

Table 2: max allowed forces in kN

Supporttype	Name	Fx	Fy	Fz
FL	1D linear support	0	1,5	2
FP	Fix point support	6	1,5	2
GL	2D linear support	0	0	2
GLA	2D linear support with axial stop	6	0	2



To transmit the forces according to table 2 the following points should be checked:

- ➔ Product pipe outside diameter $\geq 33,7\text{mm}$
- ➔ Minimum length of the pipe fixed by 1 support: 1000mm
- ➔ Allowed axial shearing stress PU-foam $\geq 0,08 \text{ N/mm}^2$ (with operating temperature)
- ➔ Allowed radial pressure stress PU-foam $\geq 0,3 \text{ N/mm}^2$ (with operating temperature)

Picture 4: Drawing with forces according to table 2

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Picture 5: Drawings with Pos.-No acc. to table 1

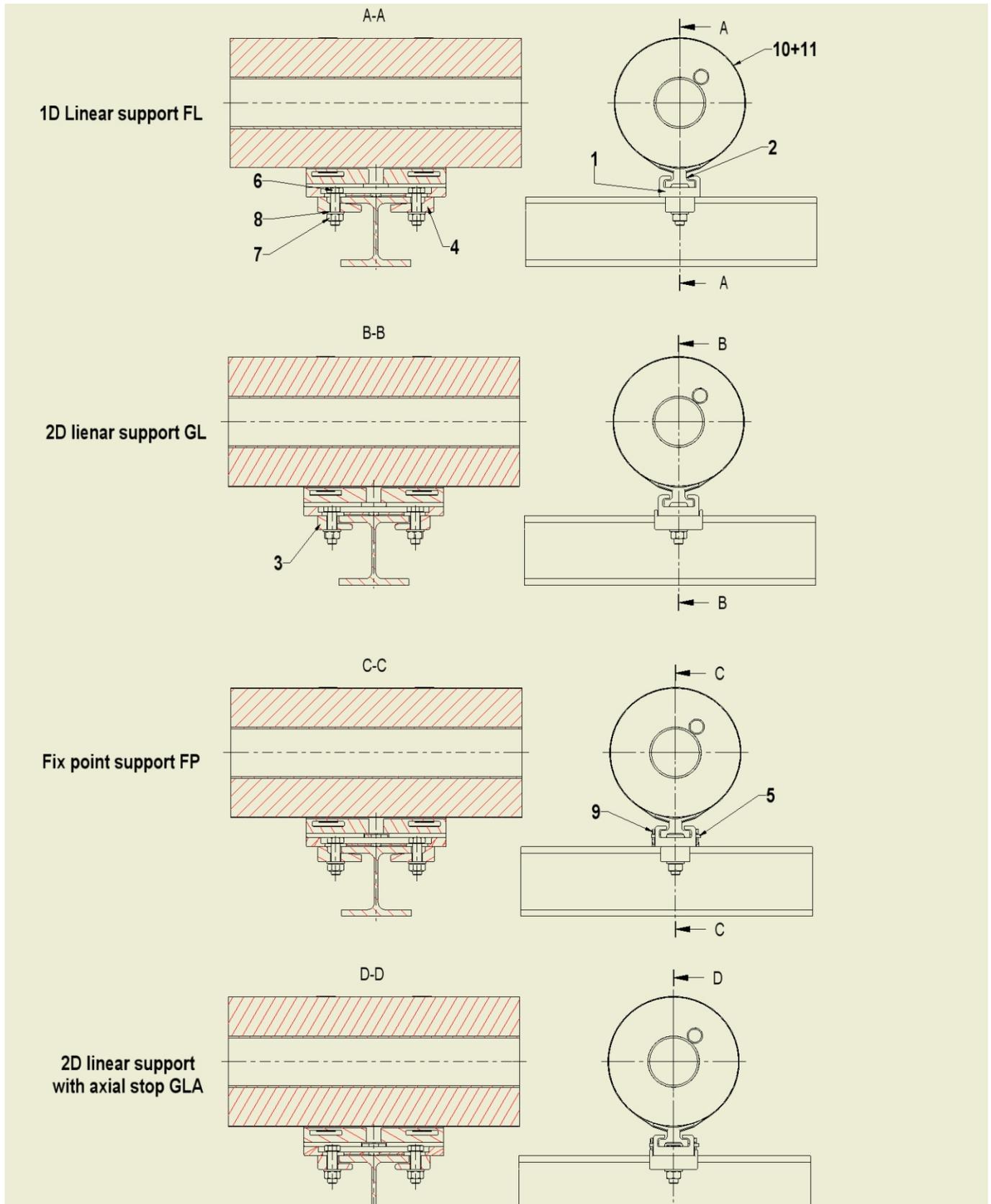
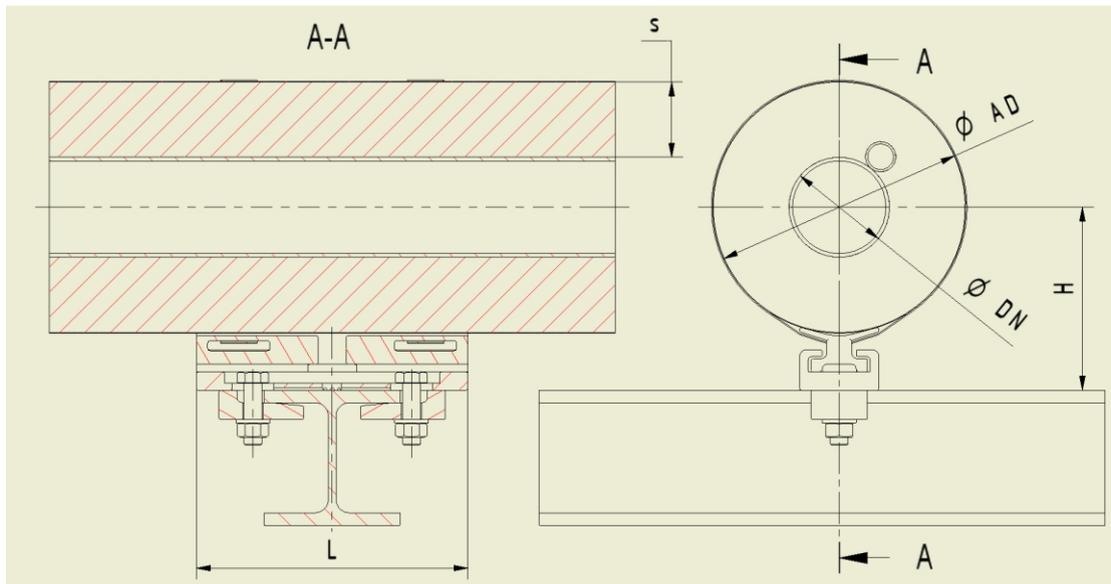


Table 3: Dimensions in mm und weight in kg

Insulation cover pipe		Product pipe	Ins. thickness	Supp. length	Supp. heights	Weight
DN	AD	DN	s	L	H	
100	101	15-25	33-39	240	100	appr. 6 kg
112	113	15-40	31-45		106	
125	126	15-50	32-51		113	
140	141	25-65	31-53		121	
160	161	25-80	35-63		131	
180	181	40-80	45-65		141	
200	201	65-100	42-61		152	
224	225	80-125	42-67		164	
250	251	80-150	40-80		178	
280	281	100-150	55-82		194	



Picture 6: Drawing with dimensions according to table 3



Pict. 7: Detail clamp



Pict. 8: Detail tape clamp



Pict. 9: Detail linear clamp

Ordering code:

To assure a correct specification and delivery the following data are necessary:

- support type
- outside diameter of insul. Cover
- Surface protection
- bolt material

A special designed tool which prevents overload of insulation cover to fix clamp tape with special clamp is also available.

In case of any question regarding our product feel free to contact our office.