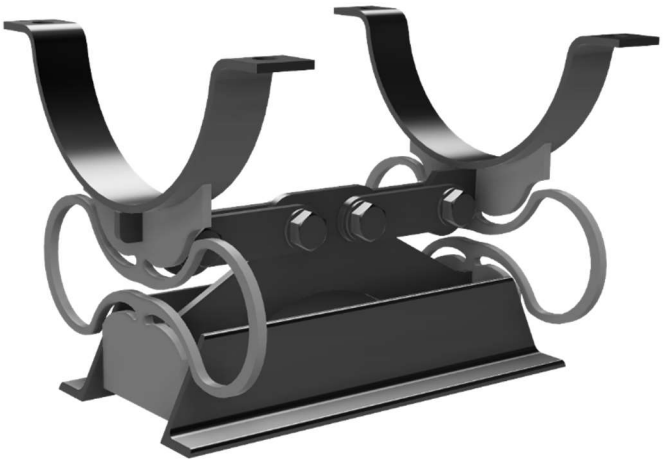
InfiniSpring® –Acoustic Anchor Point / Pipe Support DN300



PRODUCT DESCRIPTION	
Connection 1	Pipe clamp
Connection 2	Welded/bolted
Material	Steel
Corrosion protection	Hot galvanizing
Dimensions	According to SFS5377
Thermal conductivity	Spring shape reduces heat conduction
Steel springs, InfiniSpring	10HS200
Nominal load (vertical)	200 - 320 kg (*)
Nominal load, max (lateral)	800 kg (*)
Nominal load, max (axial)	66 kN (*)
Extreme load capacity (vertical)	>50 kN (* & **)
Natural frequency range	6 – 12 Hz
Operating temperature range	-40 - +400 °C
Environmental impact	No

*2 x Acoustic pipe support, anchor point. Please check allowable nominal loads for high temperatures from tables below.

** Holds components together, but with very high extreme loads spring will deform plastically.

DESCRIPTION

Acoustic pipe support DN300 for supporting pipes resiliently. Functions as anchor point in pipe axial direction. Flexible in other directions. Design is utilizing patented steel spring and manufactured using SFS5377 high pipe slide components. Main dimensions are convergent with SFS5377. Available also for other pipe sizes. Very high noise and vibration isolation performance. Improves impact and airborne noise soundproofing. Allows higher installation tolerances compared to rigid pipe support in lateral and vertical direction, ±2 mm.

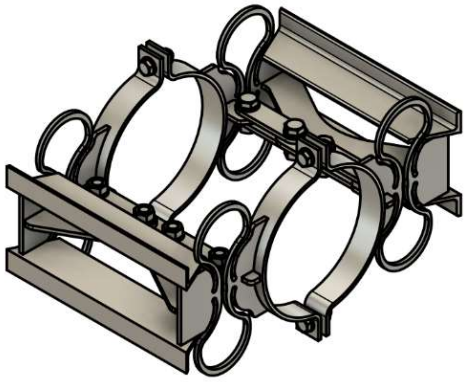
DIMENSIONING

1. Acoustic pipe supports are dimensioned using load values presented in this Product Card and by following PSK 7324 standard guidelines.
2. Use two pipe supports to form axial anchor point (picture on the right). Anchor points must be dimensioned on both sides of 90-degree pipe bends.
3. Dimension acoustic pipe supports using allowed nominal vertical load.
4. Check total load using the load combination formula from below.

NOTE! For high temperature applications remember to check allowed loads from below tables.

INSTALLATION

1. Weld or bolt acoustic pipe supports rigidly to specified locations.
2. Secure the pipe to the acoustic pipe support with pipe clamps.



Two pipe supports as axial anchor point

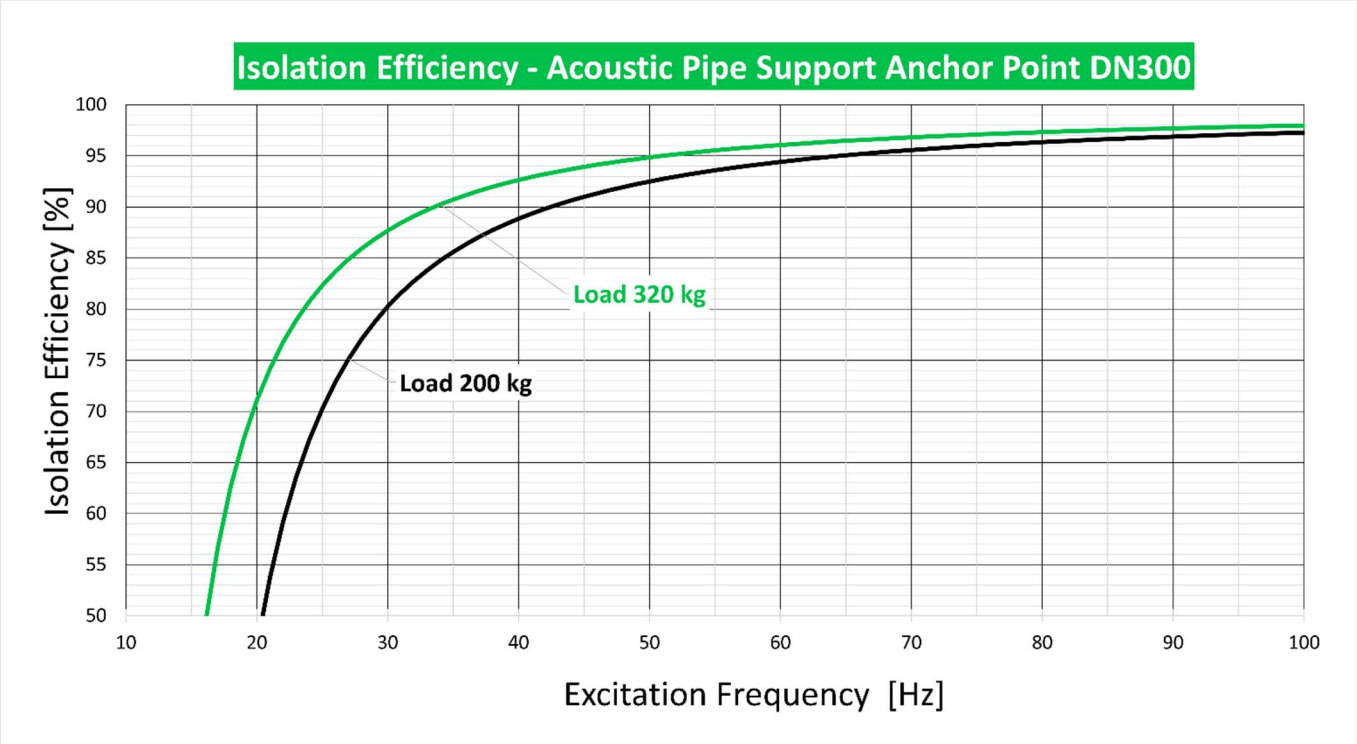
Please contact InfiniSpring in case of any questions:

www.infinispring.com

NOTE

To guarantee acoustic performance presented acoustic pipe support nominal loads in the tables shall not be exceeded at any pipe support location. Pipe will deflect downwards 1-7 mm after weight is applied.

ACOUSTIC PERFORMANCE

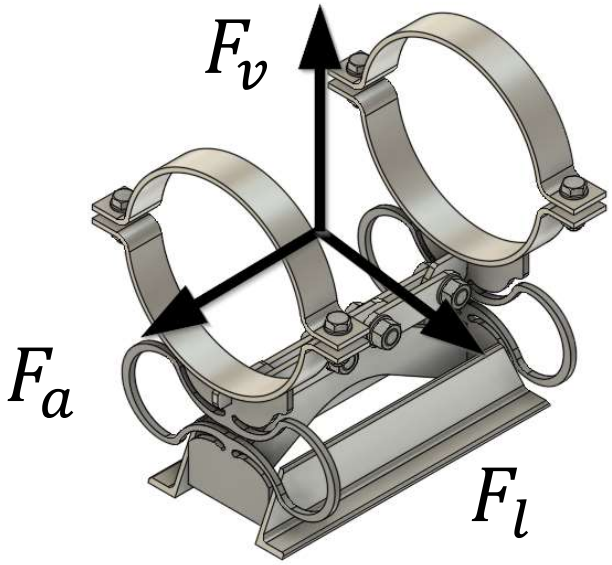


ALLOWABLE LOADS AT DIFFERENT TEMPERATURES

Pipe	Axial $F_{a,sall}$ (kN)					Vertical $F_{v,sall}$ (kN)					Lateral $F_{l,sall}$ (kN)				
	Temperature T (°C)					Temperature T (°C)					Temperature T (°C)				
DN	20	150	300	400	500	20	150	300	400	500	20	150	300	400	500
300	33,0	31,5	30,3	-	-	3,9	3,7	3,3	-	-	1,6	1,5	1,3	-	-

Below picture shows different directions for the acoustic pipe support.

NOTE! For two pipe support anchor point second table below show allowable loads.

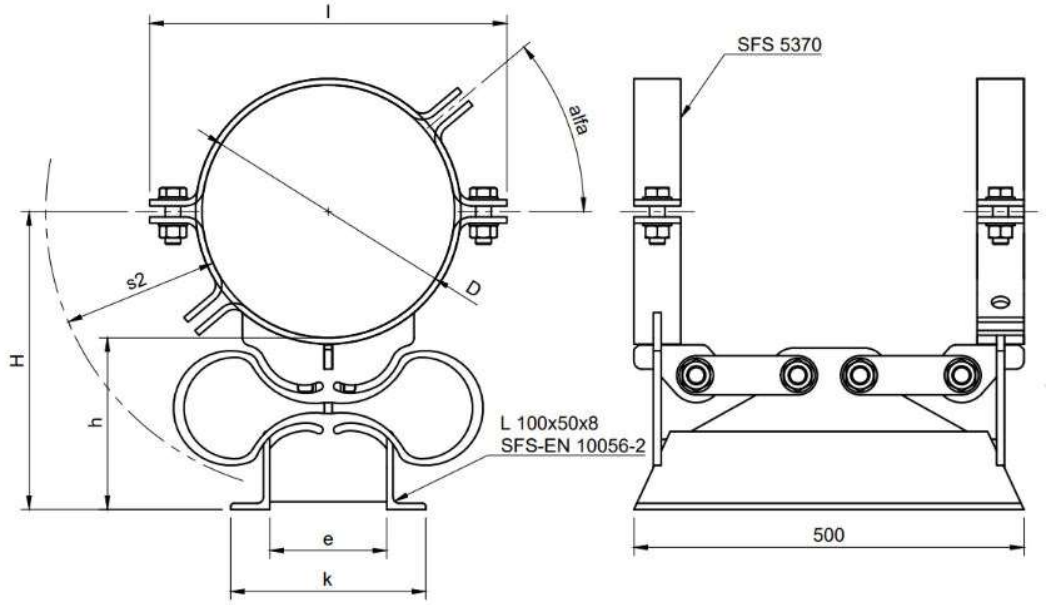


COMBINATION OF LOADS

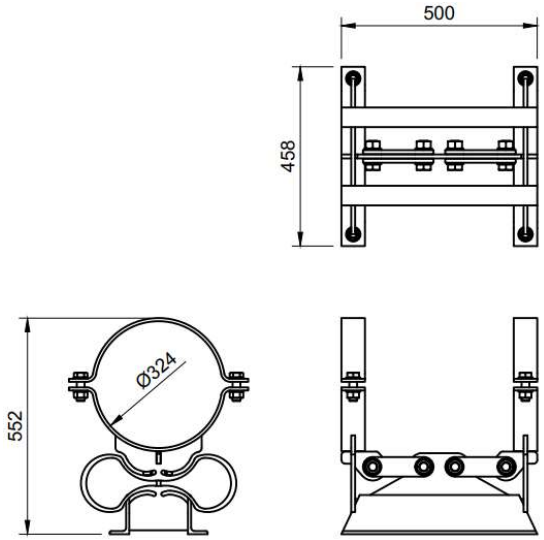
If the pipe support is exposed to loads simultaneously in several directions, the total load must be calculated using the formula below in accordance with PSK-standard.

$$\frac{|F_a|}{F_{a,sall}} + \frac{|F_v|}{F_{v,sall}} + \frac{|F_L|}{F_{L,sall}} \leq 1{,}0$$

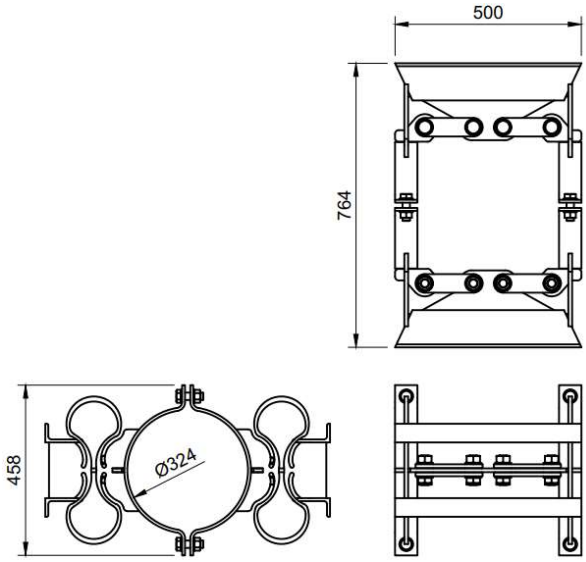
MAIN DIMENSIONS



Pipe		Pipe support							
DN	d_e mm	D mm	l mm	H mm	h mm	k mm	e mm	Mass kg	s2 mm
300	323,9	324	458	382	220	250	150	32	200



1 x Acoustic Pipe Support



2 x Acoustic Pipe Support, Anchor Point

ANCHOR POINT ALLOWABLE LOADS AT DIFFERENT TEMPERATURES (2 x Acoustic Pipe Support)

Pipe	Pipe Axial F_{axial} (kN)					Pipe Vertical $F_{vertical}$ (kN)					Pipe Lateral $F_{lateral}$ (kN)				
	Temperature T (°C)					Temperature T (°C)					Temperature T (°C)				
DN	20	150	300	400	500	20	150	300	400	500	20	150	300	400	500
300	66,0	62,9	60,5	-	-	3,1	3,0	2,9	-	-	7,8	7,5	7,2	-	-

NOTE! Minimum vertical nominal load for anchor point (2 x Acoustic Pipe Support) is recommended to be 200 kg (2 kN).

RECYCLING

Product is 100 percent steel and can be recycled together with other steel scrap.

MANUFACTURER

Labrys Oy / InfiniSpring

Uuspihlajantie 19

66370 Närvijoki

Finland

2025