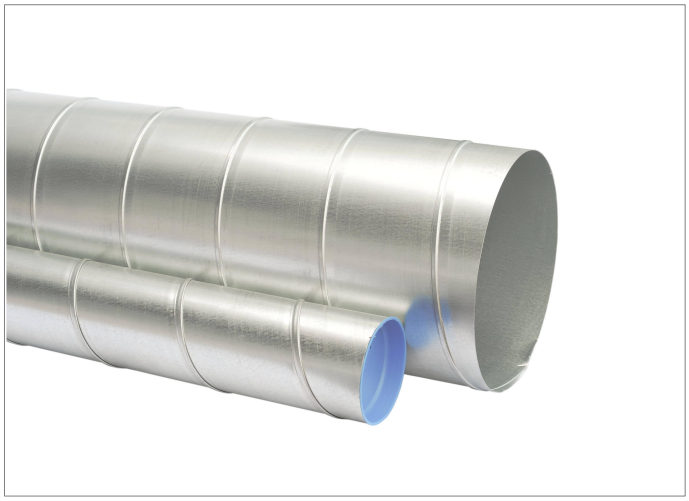
TECHNIKA

Circular ducts

AO



Description

A circular duct is used to install a ventilation system in buildings. The duct is only used to supply or extract air from the premises and is not intended for the transport of particulate matter in the air. The duct is twisted from a ribbon and connected by an external spiral seam, resulting in a very smooth surface inside which makes the pressure loss extremely low. The products can be made of: galvanized steel sheet - corrosion class C3-L / C2-M; sheet with aluminium zinc coating - corrosion class C4-M / C3-H; stainless steel sheet AISI 304 (1.4301) or AISI 316L (1.4404) - corrosion class C5. Duct tightness class C according to LST EN 1506. The duct strength meets the requirements of LST EN 12237 -750Pa / + 2000Pa. The duct can be used at temperatures from -45 to +85 ° C with appropriate insulation. The maximum permissible absolute humidity inside and outside the air stream is 18 g / kg. Circular ducts from diameter 315 mm is producing with external corrugated surface for higher stiffness. Can be ordered with safety blinds. Circular ducts from 100 to 315 mm can be packed in specially prepared metal containers for convenient transport and storage. Container dimensions BxHxL 1180x2511x2030 Packaging containers and blinds are billed as a deposit.

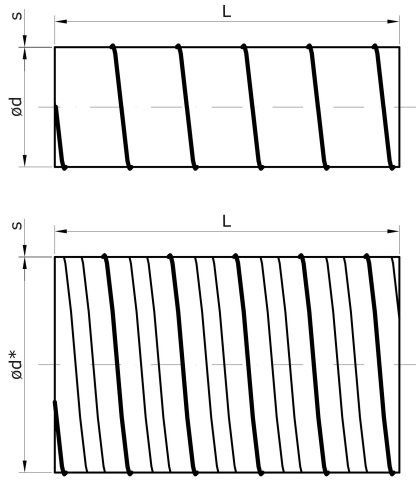
Ordering code

..... AO100

Galvanized steel - AISI 304 – NP
AISI 316L – 316NP
Product
Size

Sample: NPAO100 – made of AISI 304 steel circular duct, diameter 100 mm.

Dimensions



Ød [mm]	A [m^2]	s [mm]	$L_{stand.}$ [mm]	mass [kg/m]
100[1]	0,008	0,45	3000	1,11
125[1]	0,012	0,45	3000	1,39
160[1]	0,020	0,45	3000	1,78
200[1]	0,031	0,45	3000	2,22
250[1]	0,049	0,5	3000	3,05
315*[1]	0,078	0,5	3000	3,85
355*	0,099	0,5	3000	4,30
400*[1]	0,126	0,5	3000	4,85
450*	0,159	0,5	3000	5,85
500*[1]	0,196	0,55	3000	6,79
560*	0,246	0,55	3000	7,6
630*	0,312	0,6	3000	9,33
710*	0,396	0,6	3000	10,5
800*	0,503	0,7	3000	13,8
900*	0,636	0,7	3000	15,6
1000*	0,785	0,9	3000	22,2
1250*	1,227	0,9	3000	27,8

Ød [mm]	A [m^2]	s [mm]	$L_{stand.}$ [mm]	mass [kg/m]
NP100[1]	0,008	0,5	3000	1,24
NP125[1]	0,012	0,5	3000	1,55
NP160[1]	0,020	0,5	3000	1,98
NP200[1]	0,031	0,5	3000	2,48
NP250[1]	0,049	0,5	3000	3,10
NP315*[1]	0,078	0,5	3000	3,90
NP355*	0,099	0,5	3000	4,40
NP400*[1]	0,126	0,5	3000	4,96
NP500*[1]	0,196	0,5	3000	6,20
NP560*	0,246	0,5	3000	6,95
NP630*	0,312	0,5	3000	7,81

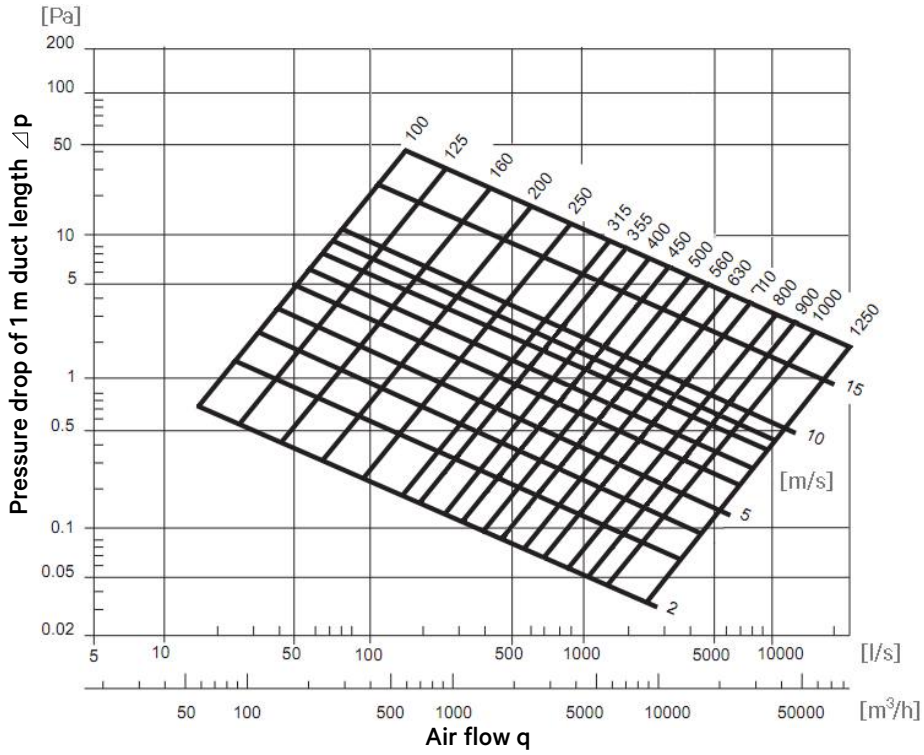
[1] With protective blinds against dirt build-up inside
*Duct with corrugated surface

TECHNIKA

Circular ducts

AO

Technical data



Description

When operating the duct system it is very important to observe the maximum allowable vacuum pressure. It varies depending on the size of the duct. Also, the stability of the entire system has a smooth and even duct surface that can be damaged during transportation or installation, which is why it is important to protect the ducts and other elements from damage. We recommend that you observe the maximum allowable pressures Pa in the table when selecting the duct system. For pressures close to the critical limit, we recommend the use fine ducts to prevent possible duct compression or swelling in the system.

Ød [mm]	s [mm]	Maximum pressure [Pa]
100	0,45	15000
125	0,45	12000
160	0,45	6500
200	0,45	4000
250	0,5	4800
315*	0,5	7000
355*	0,5	5500
400*	0,5	3600
450*	0,5	2900
500*	0,55	2400
560*	0,55	1800
630*	0,6	2100
710*	0,6	1800
800*	0,7	1500
900*	0,7	1100
1000*	0,9	1000
1250*	0,9	800

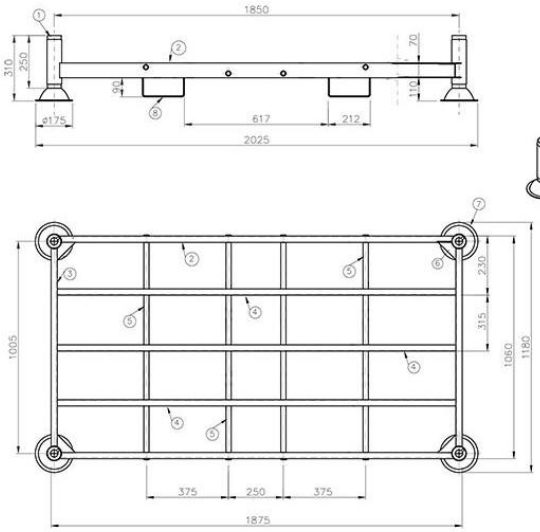
*Duct with corrugated surface

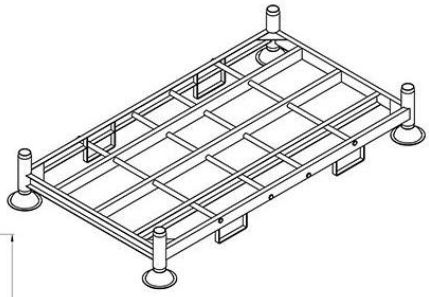
TECHNIKA

Circular ducts

AO

Technical data of metal container





Description

The transport and storage container is ready to fit round ducts of various diameters. The container is TUV certified. Container is made of steel profiles and is additionally covered with a large layer of zinc, they are resistant to scratches and rust, containers can be stored indoors or outdoors. The outside dimensions are 2025x1180x310 mm and the inside dimensions are 1820x950x1980 mm. The system of these containers is convenient and flexible, the dimensions allow to use the full volume of freight transport. The load capacity of the container is 1500 kg and the container itself weighs 50 kg. The bottom of the container is made of perforated material, which prevents moisture accumulation. The container is designed to be lifted by a standard forklift with adjustable forks. Containers can be purchased with pre-packaged ducts or temporarily rented and then returned to the seller.