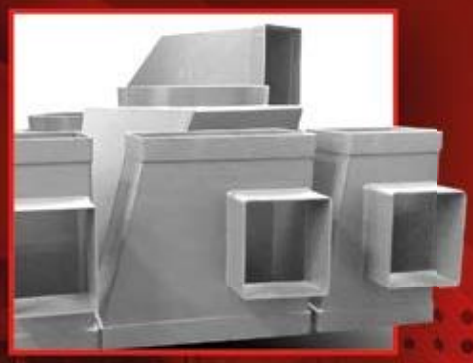


CHEMICALLY RESISTANT PLASTIC VENTILATION

CHEMOWENT®

TECHNICAL CATALOGUE

www.chemowent.pl

Tools supporting DESIGNATION OF CHEMOWENT SYSTEM

DOWNLOAD

REVIT to BIM system

- Groups of parametric Revit files in rfa formats and rvt project files, in which so-called "system" families are inserted.
  The ducts are sorted out according to the type of section (round, rectangular), type of installation (supply, exhaust, stays) and material they are made of.
- Default connector types are nested in duct types, which significantly improves the design process, allowing you to draw the installation along a so-called "path".
- Types of fittings are automatically selected by the software according to the selected diameter (for smaller diameters these are usually moulded parts, for larger - segment ones).
- Individual material combinations can be defined according to element types.

Ventpack 4.0 FLUID DESK

- Configuration of CHEMOWENT system components and their modification during the design process using Ventpack 4.0.
- Full hydraulic calculations and material sheets in xml and xls formats.
- A number of automatic and ergonomic functions to support drawing, creation of edge and plane views, smooth transition between 2D and 3D views.
- Support of AutoCAD and BricsCAD software.

WENTYLE 6.2 TomiCAD

- Includes libraries of fittings and ventilation accessories of real manufacturers.
- It enables convenient construction of installations and easy implementation of changes.
- Creates automatic lists of elements used in the project, including a list to the KNR.
- Allows you to calculate the hydraulically created installation.
- Allows you to quickly draw branches "along the path".

CADprofi

- Supports practically all currently used versions of CAD software.
- All products have several views each, so it is possible to design projections, sections and other installation views.
- Chemowent-CAD objects are prepared in parametric technology, thanks to which the blocks inserted into the drawing have different properties that automate work.
- A list view wizard is available to allow you to obtain various lists of elements used in the project.

CHEMOWENT
CHEMOODPORNA WENTYLACJA Z TWORZYW SZTUCZNYCH

CONTENTS

NOTES

1. PIPES AND FITTINGS
ROUND SECTION

1.1. Characteristics

Description

We would like to present you a production range of plastic pipes and fittings of round section.
The catalogue contains pipes and fittings made according to the following standards:

1a. made of PVC-U:
- Round section ducts - standard DIN 4740 Teil 1
- Round section fittings - standard DIN 4740 Teil 2

1b. made of PP, PE and PPs:
- Round section ducts - standard DIN 4741 Teil 1
- Round section fittings - standard DIN 4741 Teil 2

2. in accordance with company standards

3. individual production on request

Dimensions

The nominal size, which is the conventional dimension used for the designation and calculation of straight pipes and fittings, is the **external** dimension of the side - D.

Impermeability

For welded connections of ducts and fittings, the system impermeability is **%** 100 %.

Stiffness

Ducts and fittings are stiffened by the appropriately selected thickness of the material they are made of.
In case of large ducts made of rolled-up panels, it is possible to use strengthening ribs to limit the thickness of the panel.

Connection methods

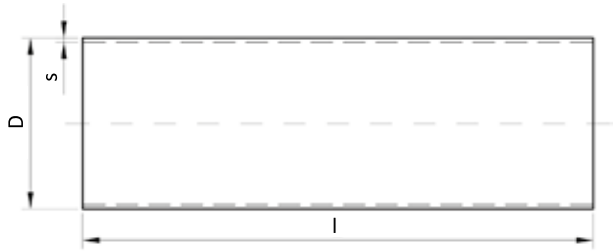
Possible connection methods of ducts and fittings system:
1. Socket ones:
   - PVC-U - bonding (possible up to d 250 mm diameter), wire welding
   - PP, PE, PPs, PP-EL-s - wire welding
2. Flanged ones - PVC-U, PP, PPs, PP-EL-s

Markings

The symbol XX in the part number describes the type of material and must be completed as follows:

- PVC-U - XX -> 88
- PP-EL-s - XX -> 40
- PPs - XX -> 36
- PP - XX -> 30
- PE - XX -> 22

1.2.1. Ventilation pipe



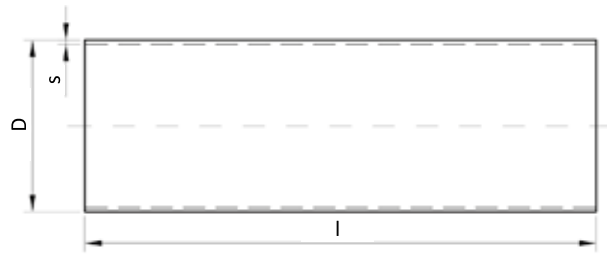
Item description	Cat. no.	D	l	s			
				PVC	PPs	PP	PE
---	---	mm	mm	mm	mm	mm	mm
Ventilation pipe d32	XX.032.Y.0000	32	2500 / 5000	1.9	3	2.9	1.9
Ventilation pipe d40	XX.040.Y.0000	40	2500 / 5000	1.9	3	3.7	2.3
Ventilation pipe d50	XX.050.Y.0000	50	2500 / 5000	1.8	3	4.6	2.9
Ventilation pipe d63	XX.063.Y.0000	63	2500 / 5000	1.9	3	5.8	3.6
Ventilation pipe d75	XX.075.Y.0000	75	2500 / 5000	1.8	3	1.9	4.3
Ventilation pipe d90	XX.090.Y.0000	90	2500 / 5000	1.8	3	2.2	5.4
Ventilation pipe d110	XX.110.Y.0000	110	2500 / 5000	1.8	3	2.7	2.7
Ventilation pipe d125	XX.125.Y.0000	125	2500 / 5000	1.8	3	3.1	3.1
Ventilation pipe d140	XX.140.Y.0000	140	2500 / 5000	1.8	3	3.5	3.5
Ventilation pipe d160	XX.160.Y.0000	160	2500 / 5000	1,8/2,5	3	4	4
Ventilation pipe d180	XX.180.Y.0000	180	2500 / 5000	1,8/2,5	3	4.4	4.4
Ventilation pipe d200	XX.200.Y.0000	200	2500 / 5000	1,8/2,5	3	4.9	4.9
Ventilation pipe d225	XX.225.Y.0000	225	2500 / 5000	1,8/2,8	3.5	5.5	5.5
Ventilation pipe d250	XX.250.Y.0000	250	2500 / 5000	2/2,9	3.5	3.5	6.2
Ventilation pipe d280	XX.280.Y.0000	280	2500 / 5000	2,3/2,9	4	6.9	6.9
Ventilation pipe d315	XX.315.Y.0000	315	2500 / 5000	2.5/2,9	5	5	7.7
Ventilation pipe d355	XX.355.Y.0000	355	2500 / 5000	2.9/4,4	5	5	8.7
Ventilation pipe d400	XX.400.Y.0000	400	2500 / 5000	3,2/5	6	6	9.8
Ventilation pipe d450	XX.450.Y.0000	450	2500 / 5000	3,6/5,6	7	7	11
Ventilation pipe d500	XX.500.Y.0000	500	2500 / 5000	4/5,6	8	8	12.3

Markings

a. D external diameter of pipes, mm
b. l length of pipes, mm
c. XX material designation
PVC-U – 88; PP-EL-s – 40; PPs – 36; PP – 30; PE – 22
d. Y selection of version:
L - standard walls / M - thickened wall PVC

Other dimensions on request.

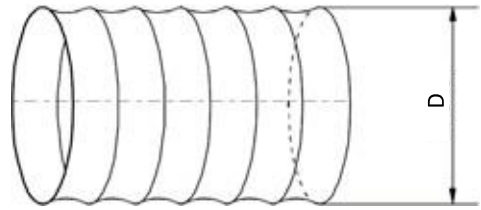
1.2.2. Ventilation pipe - made of panels



Item description	Cat. no.	D	l	s	
				L	M
---	---	mm	mm	mm	mm
Panel ventilation pipe d500	XX.500.Y.000P	500	500 / 1000 / 1500 / 2000	4	-
Panel ventilation pipe d560	XX.560.Y.000P	560	500 / 1000 / 1500 / 2000	4	6
Panel ventilation pipe d600	XX.600.Y.000P	600	500 / 1000 / 1500 / 2000	6	8
Panel ventilation pipe d630	XX.630.Y.000P	630	500 / 1000 / 1500 / 2000	6	8
Panel ventilation pipe d700	XX.700.Y.000P	700	500 / 1000 / 1500 / 2000	6	8
Panel ventilation pipe d710	XX.710.Y.000P	710	500 / 1000 / 1500 / 2000	6	8
Panel ventilation pipe d800	XX.800.Y.000P	800	500 / 1000 / 1500 / 2000	8	10
Panel ventilation pipe d900	XX.900.Y.000P	900	500 / 1000 / 1500 / 2000	8	10
Panel ventilation pipe d1000	XX.1000.Y.000P	1000	500 / 1000 / 1500 / 2000	8	10
Panel ventilation pipe d1250	XX.1250.Y.000P	1250	500 / 1000 / 1500 / 2000	10	12
Panel ventilation pipe d1400	XX.1400.Y.000P	1400	500 / 1000 / 1500 / 2000	10	12

Markings
a. D external diameter of pipes, mm
b. l length of pipes, mm
c. XX material designation PPs – 36; PP – 30; PE – 22
d. Y selection of version: L - standard walls / M - thickened wall
Other dimensions on request.

1.2.3. PVC Flex flexible ventilation pipe



Flexible cables are manufactured in accordance with DIN 24146 Teil 1

Item description	Cat. no.	D
---	---	mm
Flex flexible ventilation pipe d75	88.075.RF.0000	75
Flex flexible ventilation pipe d90	88.090.RF.0000	90
Flex flexible ventilation pipe d110	88.110.RF.0000	110
Flex flexible ventilation pipe d125	88.125.RF.0000	125
Flex flexible ventilation pipe d140	88.140.RF.0000	140
Flex flexible ventilation pipe d160	88.160.RF.0000	160
Flex flexible ventilation pipe d180	88.180.RF.0000	180
Flex flexible ventilation pipe d200	88.200.RF.0000	200
Flex flexible ventilation pipe d225	88.225.RF.0000	225
Flex flexible ventilation pipe d250	88.250.RF.0000	250
Flex flexible ventilation pipe d280	88.280.RF.0000	280
Flex flexible ventilation pipe d315	88.315.RF.0000	315
Flex flexible ventilation pipe d355	88.355.RF.0000	355
Flex flexible ventilation pipe d400	88.400.RF.0000	400
Flex flexible ventilation pipe d450	88.450.RF.0000	450
Flex flexible ventilation pipe d500	88.500.RF.0000	500
Flex flexible ventilation pipe d600	88.600.RF.0000	600
Flex flexible ventilation pipe d800	88.800.RF.0000	800

Markings

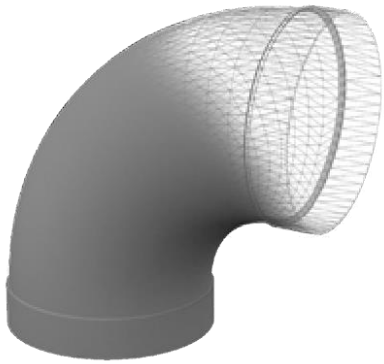
a. D internal diameter of pipes, mm
b. 88 FLEX type pipes made of PVC

Maximum length in one section - 10 m

Commercial unit - 1 m.

Other dimensions on request.

1.3. Elbow - 90°, 75°, 60°, 45°, 30° and 15°



Markings		
a.	D	external diameter of pipes, mm
b.	s	wall thickness
c.	l	length of socket, mm
d.	XX	material designation, PVC-U - 88; PP-EL-s - 40; PPs - 36; PP - 30; PE - 22
e.	YY	angle description - 90° / 75° / 60° / 45° / 30° / 15°

Elbow d560 PVC - in a segmented version.

Dimensions on request

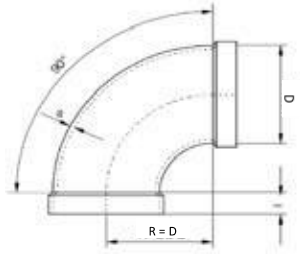
a. PVC - from D 700 ÷ 1250 mm

b. PP / PE / PPs - from D 630 ÷ 1250 mm

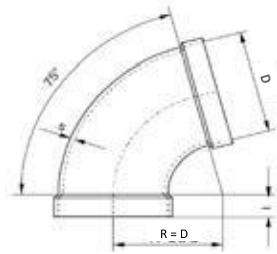
Local resistance coefficient ζ - given in the figures.

Item description	Cat. no.	D	l	s	
				PVC	PE / PP / PPs
---	---	mm	mm	mm	mm
Elbow 90° / 75° / 60° / 45° / 30° / 15° d50	XX.050.L.00YY	50	40	1.8	3
Elbow 90° / 75° / 60° / 45° / 30° / 15° d63	XX.063.L.00YY	63	40	1.8	3
Elbow 90° / 75° / 60° / 45° / 30° / 15° d75	XX.075.L.00YY	75	40	1.8	3
Elbow 90° / 75° / 60° / 45° / 30° / 15° d90	XX.090.L.00YY	90	40	1.8	3
Elbow 90° / 75° / 60° / 45° / 30° / 15° d110	XX.110.L.00YY	110	40	1.8	3
Elbow 90° / 75° / 60° / 45° / 30° / 15° d125	XX.125.L.00YY	125	40	1.8	3
Elbow 90° / 75° / 60° / 45° / 30° / 15° d140	XX.140.L.00YY	140	40	1.8	3
Elbow 90° / 75° / 60° / 45° / 30° / 15° d160	XX.160.L.00YY	160	40	1.8	3
Elbow 90° / 75° / 60° / 45° / 30° / 15° d180	XX.180.L.00YY	180	40	1.8	3
Elbow 90° / 75° / 60° / 45° / 30° / 15° d200	XX.200.L.00YY	200	40	1.8	3
Elbow 90° / 75° / 60° / 45° / 30° / 15° d225	XX.225.L.00YY	225	40	1.8	3.5
Elbow 90° / 75° / 60° / 45° / 30° / 15° d250	XX.250.L.00YY	250	40	2	3.5
Elbow 90° / 75° / 60° / 45° / 30° / 15° d280	XX.280.L.00YY	280	50	2.3	3.5
Elbow 90° / 75° / 60° / 45° / 30° / 15° d315	XX.315.L.00YY	315	50	2.5	4
Elbow 90° / 75° / 60° / 45° / 30° / 15° d355	XX.355.L.00YY	355	50	2.9	4
Elbow 90° / 75° / 60° / 45° / 30° / 15° d400	XX.400.L.00YY	400	50	3.2	4.5
Elbow 90° / 75° / 60° / 45° / 30° / 15° d450	XX.450.L.00YY	450	60	3.6	5.5
Elbow 90° / 75° / 60° / 45° / 30° / 15° d500	XX.500.L.00YY	500	60	4	6.5
Elbow 90° / 75° / 60° / 45° / 30° / 15° d560	XX.560.L.00YY	560	60	---	5
Elbow 90° / 75° / 60° / 45° / 30° / 15° d600	XX.600.L.00YY	600	80	6	6

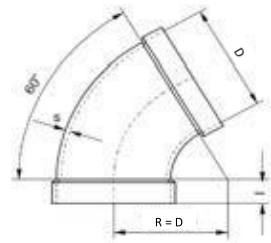
XX.DDD.L.0090 / ζ = 0,25



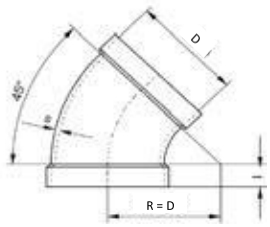
XX.DDD.L.0075 / ζ = 0,20



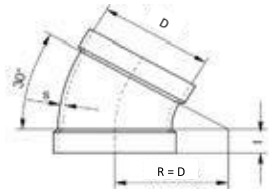
XX.DDD.L.0060 / ζ = 0,18



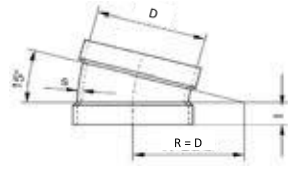
XX.DDD.L.0045 / ζ = 0,15



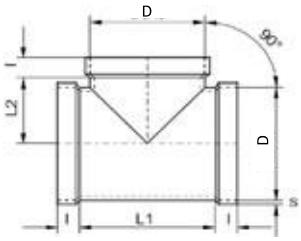
XX.DDD.L.0030 / ζ = 0,10



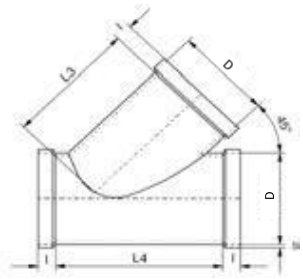
XX.DDD.L.0015 / ζ = 0,05



1.4. Tee with 90° and 45° branches



XX.DDD.L.9000 / ζ=1,10

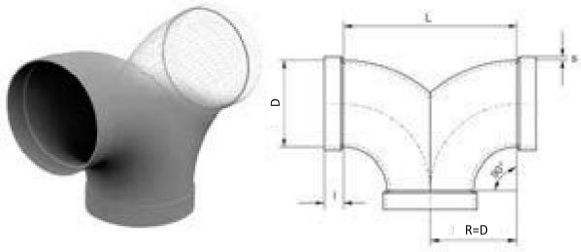


XX.DDD.L.4500 / ζ=1,10

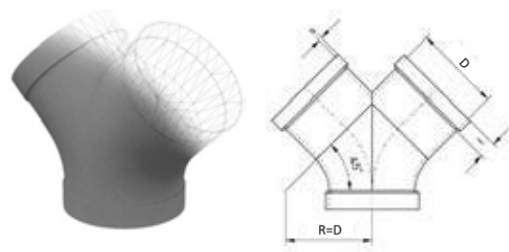
Item description	Cat. no.	D	l	L1	L2	L3	L4	s	
								PVC	PE / PP / PPs
---	---	mm	mm	mm	mm	mm	mm	mm	mm
Tee 90° and 45° d50	XX.050.L.YY00	50	40	105	52.5	120	165	2.5	3
Tee 90° and 45° d63	XX.063.L.YY00	63	40	105	52.5	120	165	2.5	3
Tee 90° and 45° d75	XX.075.L.YY00	75	40	105	52.5	120	165	2.5	3
Tee 90° and 45° d90	XX.090.L.YY00	90	40	120	60	140	190	2.5	3
Tee 90° and 45° d110	XX.110.L.YY00	110	40	140	70	170	235	2.5	3
Tee 90° and 45° d125	XX.125.L.YY00	125	40	155	77.5	190	255	2.5	3
Tee 90° and 45° d140	XX.140.L.YY00	140	40	170	85	210	280	2.5	3
Tee 90° and 45° d160	XX.160.L.YY00	160	40	190	95	240	325	2.5	3
Tee 90° and 45° d180	XX.180.L.YY00	180	40	210	105	265	355	2.5	3
Tee 90° and 45° d200	XX.200.L.YY00	200	40	230	115	290	380	2.5	3
Tee 90° and 45° d225	XX.225.L.YY00	225	40	255	127.5	330	440	2	3.5
Tee 90° and 45° d250	XX.250.L.YY00	250	40	280	140	360	475	2	3.5
Tee 90° and 45° d280	XX.280.L.YY00	280	50	310	165	400	515	2.3	3.5
Tee 90° and 45° d315	XX.315.L.YY00	315	50	345	172.5	440	565	2.5	4
Tee 90° and 45° d355	XX.355.L.YY00	355	50	385	192.5	490	620	2.9	4
Tee 90° and 45° d400	XX.400.L.YY00	400	50	430	215	540	685	3.2	4.5
Tee 90° and 45° d450	XX.450.L.YY00	450	60	570	285	610	770	3.6	5
Tee 90° and 45° d500	XX.500.L.YY00	500	60	620	310	680	880	4	5
Tee 90° and 45° d560	XX.560.L.YY00	560	60	680	340	---	---	---	5
Tee 90° and 45° d600	XX.600.L.YY00	600	60	760	380	---	---	5	6

Markings
a. D external diameter of pipes, mm b. s wall thickness
c. l length of socket, mm
d. XX material designation, PVC-U - 88; PP-EL-s - 40; PPs - 36; PP - 30; PE - 22
e. YY angle description - 90° / 45°
Local resistance coefficient ζ - given in the figures.
Other dimensions on request.

1.5. “Y"-type Tee with 90° and 45° branches



XX.DDD.L.90000 / ζ=0,25

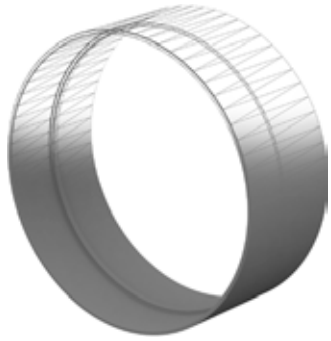


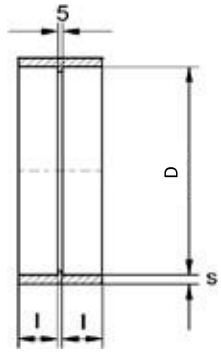
XX.DDD.L.4500 / ζ=0,15

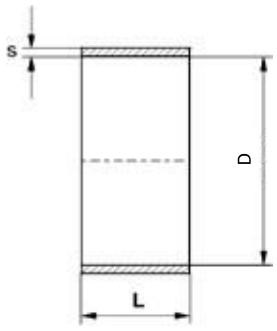
Item description	Cat. no.	D	l	L	s	
					PVC	PE / PP / PPs
---	---	mm	mm	mm	mm	mm
“Y”-type tee 90° and 45° d50	XX.050.Y.YY00	50	40	150	1.8	3
“Y”-type tee 90° and 45° d63	XX.063.Y.YY00	63	40	150	1.8	3
“Y”-type tee 90° and 45° d75	XX.075.Y.YY00	75	40	150	1.8	3
“Y”-type tee 90° and 45° d90	XX.090.Y.YY00	90	40	180	1.8	3
“Y”-type tee 90° and 45° d110	XX.110.Y.YY00	110	40	220	1.8	3
“Y”-type tee 90° and 45° d125	XX.125.Y.YY00	125	40	250	1.8	3
“Y”-type tee 90° and 45° d140	XX.140.Y.YYY00	140	40	280	1.8	3
“Y”-type tee 90° and 45° d160	XX.160.Y.YY00	160	40	320	1.8	3
“Y”-type tee 90° and 45° d180	XX.180.Y.YY00	180	40	360	1.8	3
“Y”-type tee 90° and 45° d200	XX.200.Y.YY00	200	40	400	1.8	3
“Y”-type tee 90° and 45° d225	XX.225.Y.YY00	225	40	450	1.8	3.5
“Y”-type tee 90° and 45° d250	XX.250.Y.YY00	250	40	500	2	3.5
“Y”-type tee 90° and 45° d280	XX.280.Y.YY00	280	50	560	2.3	3.5
“Y”-type tee 90° and 45° d315	XX.315.Y.YY00	315	50	630	2.5	4
“Y”-type tee 90° and 45° d355	XX.355.Y.YY00	355	50	710	2.9	4
“Y”-type tee 90° and 45° d400	XX.400.Y.YY00	400	50	800	3.2	4.5
“Y”-type tee 90° and 45° d450	XX.450.Y.YY00	450	60	900	3.6	5.5
“Y”-type tee 90° and 45° d500	XX.500.Y.YY00	500	60	1000	4	6.5
“Y”-type tee 90° and 45° d560	XX.560.Y.YY00	560	60	1120	4	5
“Y”-type tee 90° and 45° d600	XX.600.Y.YY00	600	60	1200	5	6

Markings
a. D external diameter of pipes, mm b. s wall thickness
c. l length of socket, mm
d. XX material designation, PVC-U - 88; PP-EL-s - 40; PPs - 36; PP - 30; PE - 22
e. YY angle description - 90° / 45°
Local resistance coefficient ζ - given in the figures.
Other dimensions on request.

1.6. Socket



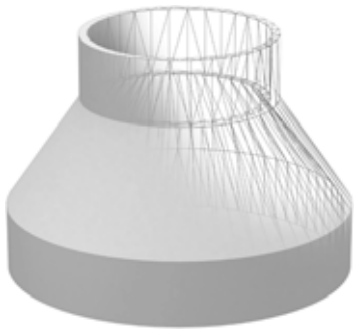




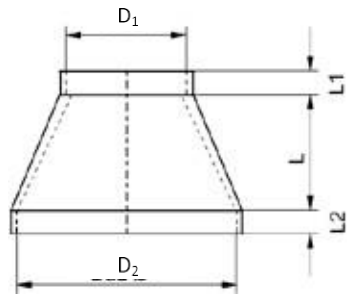
Item description	Cat. no.	D	l	L	s	
					PVC	PE / PP / PPs
---	---	mm	mm	mm	mm	mm
Socket d50	XX.050.L.0002	50	40	---	2.5	3
Socket d63	XX.063.L.0002	63	40	---	2.5	3
Socket d75	XX.075.L.0002	75	40	---	2.5	3
Socket d90	XX.090.L.0002	90	40	---	2.5	3
Socket d110	XX.110.L.0002	110	40	---	2.5	3
Socket d125	XX.125.L.0002	125	40	---	2.5	3
Socket d140	XX.140.L.0002	140	40	---	2.5	3
Socket d160	XX.160.L.0002	160	40	---	2.5	3
Socket d180	XX.180.L.0002	180	40	---	2.5	3
Socket d200	XX.200.L.0002	200	40	---	2.5	3
Socket d225	XX.225.L.0002	225	40	---	2.5	3.5
Socket d250	XX.250.L.0002	250	40	---	2.5	3.5
Socket d280	XX.280.L.0002	280	50	---	2.5	3.5
Socket d315	XX.315.L.0002	315	50	---	2.5	4
Socket d355	XX.355.L.0002	355	50	---	3	4
Socket d400	XX.400.L.0002	400	50	---	3	4.5
Socket d450	XX.450.L.0002	450	---	120	3.6	5
Socket d500	XX.500.L.0002	500	---	120	4	5
Socket d560	XX.560.L.0002	560	---	120	---	5
Socket d600	XX.600.L.0002	600	---	120	5	6
Socket d630	XX.630.L.0002	630	---	120	---	6
Socket d700	XX.700.L.0002	700	---	150	5	6
Socket d710	XX.710.L.0002	710	---	150	---	6
Socket d800	XX.800.L.0002	800	---	150	6	8

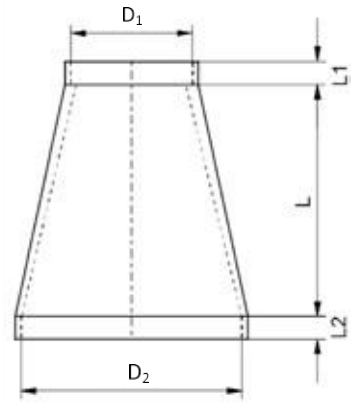
Markings	
a.	D external diameter of pipes, mm
b.	s wall thickness
c.	l length of socket, mm
d.	L total length of socket, mm
e.	XX material designation PVC-U – 88; PP-EL-s – 40; PPs – 36; PP – 30; PE – 22
Other dimensions on request.	

1.7. Reduction



D2 - D1 / ζ=0- 0,5





Item description	Cat. no.	D_1	D_2	L	L1	L2
---	---	mm	mm	mm	mm	mm
Reduction d90 × d75	XX.090.R.0075	75	90	40	40	40
Reduction d110 × d75	XX.110.R.0075	75	110	80	40	40
Reduction d110 × d90	XX.110.R.0090	90	110	60	40	40
Reduction d125 × 110	XX.125.R.0110	110	125	40	40	40
Reduction d140 × d110	XX.140.R.0110	110	140	80	40	40
Reduction d140 × d125	XX.140.R.0125	125	140	40	40	40
Reduction d160 × d110	XX.160.R.0110	110	160	140	40	40
Reduction d160 × d125	XX.160.R.0125	125	160	100	40	40
Reduction d160 × d140	XX.160.R.0140	140	160	60	40	40
Reduction d180 × d110	XX.180.R.0110	110	180	60	40	40
Reduction d180 × d125	XX.180.R.0125	125	180	50	40	40
Reduction d180 × d140	XX.180.R.0140	140	180	40	40	40
Reduction d180 × d160	XX.180.R.0160	160	180	60	40	40
Reduction d200 × d110	XX.200.R.0110	110	200	65	40	40
Reduction d200 × d125	XX.200.R.0125	125	200	75	40	40
Reduction d200 × d140	XX.200.R.0140	140	200	70	40	40
Reduction d200 × d160	XX.200.R.0160	160	200	120	40	40
Reduction d200 × d180	XX.200.R.0180	180	200	60	40	40
Reduction d225 × d125	XX.225.R.0125	125	225	80	40	40
Reduction d225 × d140	XX.225.R.0140	140	225	70	40	40
Reduction d225 × d160	XX.225.R.0160	160	225	100	40	40
Reduction d225 × d180	XX.225.R.0180	180	225	105	40	40
Reduction d225 × d200	XX.225.R.0200	200	225	80	40	40
Reduction d250 × d125	XX.250.R.0125	125	250	90	40	40
Reduction d250 × d140	XX.250.R.0140	140	250	80	40	40
Reduction d250 × d160	XX.250.R.0160	160	250	120	40	40
Reduction d250 × d180	XX.250.R.0180	180	250	100	40	40
Reduction d250 × d200	XX.250.R.0200	200	250	140	40	40
Reduction d250 × d225	XX.250.R.0225	225	250	80	40	40
Reduction d280 × d160	XX.280.R.0160	160	280	95	40	50

1.7. Reduction

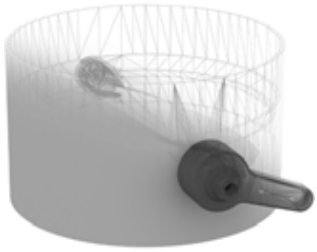
Item description	Cat. no.	D_1	D_2	L	L1	L2
---	---	mm	mm	mm	mm	mm
Reduction d280 × d180	XX.280.R.0180	180	280	75	40	50
Reduction d280 × d200	XX.280.R.0200	200	280	120	40	50
Reduction d280 × d225	XX.280.R.0225	225	280	120	40	50
Reduction d280 × d250	XX.280.R.0250	250	280	80	40	50
Reduction d315 × d160	XX.315.R.0160	160	315	115	40	50
Reduction d315 × d180	XX.315.R.0180	180	315	100	40	50
Reduction d315 × d200	XX.315.R.0200	200	315	160	40	50
Reduction d315 × d225	XX.315.R.0225	225	315	155	40	50
Reduction d315 × d250	XX.315.R.0250	250	315	100	40	50
Reduction d315 × d280	XX.315.R.0280	280	315	100	50	50
Reduction d355 × d200	XX.355.R.0200	200	355	115	40	50
Reduction d355 × d225	XX.355.R.0225	225	355	120	40	50
Reduction d355 × d250	XX.355.R.0250	250	355	140	40	50
Reduction d355 × d280	XX.355.R.0280	280	355	135	50	50
Reduction d355 × d315	XX.355.R.0315	315	355	120	50	50
Reduction d400 × d225	XX.400.R.0225	225	400	125	40	50
Reduction d400 × d250	XX.400.R.0250	250	400	125	40	50
Reduction d400 × d280	XX.400.R.0280	280	400	105	50	50
Reduction d400 × d315	XX.400.R.0315	315	400	120	50	50
Reduction d400 × d355	XX.400.R.0355	355	400	135	50	50
Reduction d450 × d250	XX.450.R.0250	250	450	145	40	50
Reduction d450 × d280	XX.450.R.0280	280	450	150	50	50
Reduction d450 × d315	XX.450.R.0315	315	450	120	50	50
Reduction d450 × d355	XX.450.R.0355	355	450	100	50	50
Reduction d500 × d280	XX.500.R.0280	280	500	160	50	50
Reduction d500 × d315	XX.500.R.0315	315	500	135	50	50

Markings

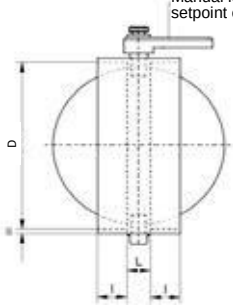
a. D_1/D_2 external diameter of pipes, mm
b. L1/L2 length of socket, mm
c. XX material designation
PVC-U – 88; PP-EL-s – 40; PPs – 36; PP – 30; PE – 22

Other dimensions on request.

1.8. Manual control throttle d75 - d800

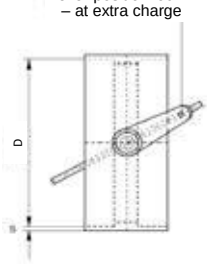


Manual level with setpoint every 7,5°



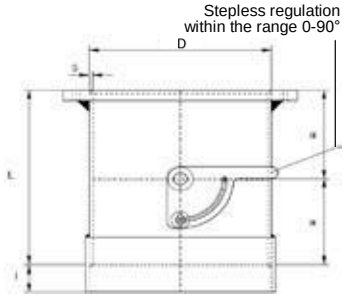
Item description	Cat. no.	D	L	l	s	
					PVC	PE / PP / PPs
---	---	mm	mm	mm	mm	mm
Manual control throttle d75	XX.075.L.0070	75	40	40	2,5	3
Manual control throttle d90	XX.090.L.0070	90	40	40	2.5	3
Manual control throttle d110	XX.110.L.0070	110	40	40	2.5	3
Manual control throttle d125	XX.125.L.0070	125	40	40	2.5	3
Manual control throttle d140	XX.140.L.0070	140	40	40	2.5	3
Manual control throttle d160	XX.160.L.0070	160	40	40	2.5	3
Manual control throttle d180	XX.180.L.0070	180	40	40	2.5	3.5
Manual control throttle d200	XX.200.L.0070	200	40	40	2.5	3.5
Manual control throttle d225	XX.225.L.0070	225	40	40	2.5	3.5
Manual control throttle d250	XX.250.L.0070	250	40	40	2.5	3.5
Manual control throttle d280	XX.280.L.0070	280	40	50	2.5	3.5
Manual control throttle d315	XX.315.L.0070	315	40	50	2.5	4
Manual control throttle d355	XX.355.L.0070	355	40	50	3	4
Manual control throttle d400	XX.400.L.0070	400	40	50	3.5	4.5

Lever position lock – at extra charge



Item description	Cat. no.	D	L	l	s	
					PVC	PE / PP / PPs
---	---	mm	mm	mm	mm	mm
Manual control throttle d450	XX.450.L.0070	450	320	60	3,6	5
Manual control throttle d500	XX.500.L.0070	500	360	60	4	5
Manual control throttle d560	XX.560.L.0070	560	410	70	---	6
Manual control throttle d600	XX.600.L.0070	600	450	70	5	6
Manual control throttle d630	XX.630.L.0070	630	480	70	---	6
Manual control throttle d700	XX.700.L.0070	700	520	70	6	8
Manual control throttle d710	XX.710.L.0070	710	530	70	---	8

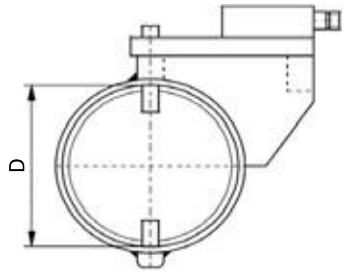
Stepless regulation within the range 0-90°



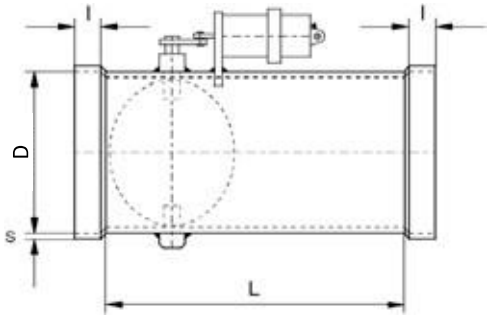
Markings
a. D external diameter of pipes, mm b. s wall thickness
c. l length of sockets, mm
d. XX material designation PVC-U – 88; PP-EL-s – 40; PPs – 36; PP – 30; PE – 22 Material PP-EL-s available up to 600mm diameter.
Flange or socket connection.
Lever position lock at extra charge - cat. no. XX.D.P.0070.B.
Other dimensions on request.

ζ at flap settings	0.5	1.5	4	11	33	120	250
	10°	20°	30°	40°	50°	60°	70°

1.9. Control throttle for drive



Version 1 - electric drive



Version 2 - pneumatic drive

Item description	Cat. no.	D	L	l	s	
					PVC	PE / PP / PPs
---	---	mm	mm	mm	mm	mm
Control throttle for drive d75	XX.075.L.0071.Y	75	220	40	2.5	3
Control throttle for drive d90	XX.090.L.0071.Y	90	220	40	2.5	3
Control throttle for drive d110	XX.110.L.0071.Y	110	220	40	2.5	3
Control throttle for drive d125	XX.125.L.0071.Y	125	220	40	2.5	3
Control throttle for drive d140	XX.140.L.0071.Y	140	220	40	2.5	3
Control throttle for drive d160	XX.160.L.0071.Y	160	220	40	2.5	3
Control throttle for drive d180	XX.180.L.0071.Y	180	220	40	2.5	3.5
Control throttle for drive d200	XX.200.L.0071.Y	200	220	40	2.5	3.5
Control throttle for drive d225	XX.225.L.0071.Y	225	220	40	2.5	3.5
Control throttle for drive d250	XX.250.L.0071.Y	250	220	40	2.5	3.5
Control throttle for drive d280	XX.280.L.0071.Y	280	270	50	2.5	3.5
Control throttle for drive d315	XX.315.L.0071.Y	315	270	50	2.5	4
Control throttle for drive d355	XX.355.L.0071.Y	355	270	50	3	4
Control throttle for drive d400	XX.400.L.0071.Y	400	270	50	3.5	4.5

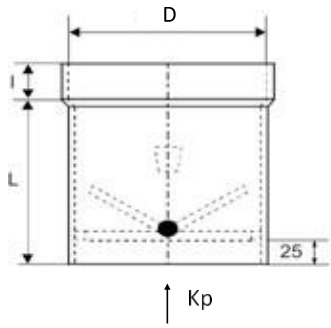
ζ at flap settings	0.5	1.5	4	11	33	120	250
	10°	20°	30°	40°	50°	60°	70°

Markings	
a.	D external diameter of pipes, mm
b.	s wall thickness
c.	l length of sockets, mm
d.	XX material designation PVC-U – 88; PPs – 36; PP – 30; PE – 22 PP-EL-s material on request
e.	Y - drive version: electric - E, pneumatic - P

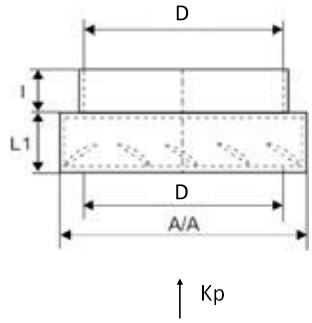
Flange or socket connection.

Other dimensions on request.

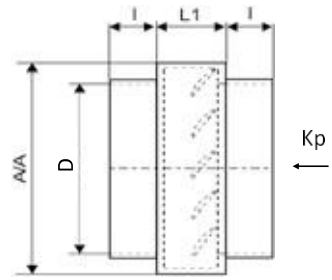
1.10. Swing check valve



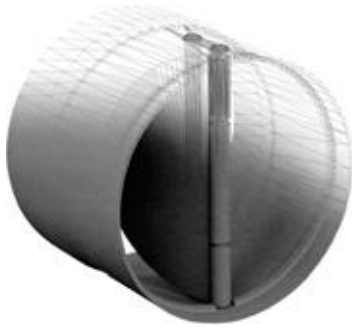
Model 1 - for vertical installation I, ζ = 0.5

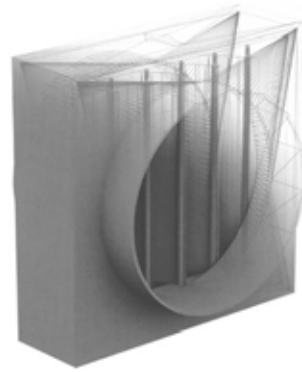


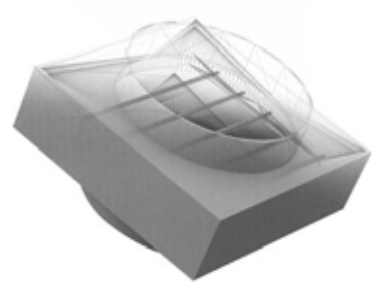
Model 2 - for vertical installation II, ζ = 1.5



Model 3 - for horizontal installation, ζ = 1.5





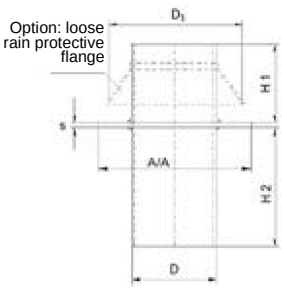


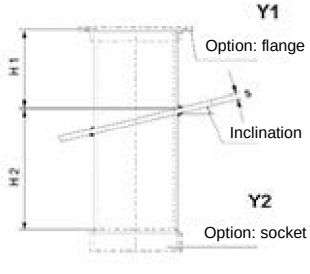
Item description	Cat. no.	D	L	l	A/A	L1
---	---	mm	mm	mm	mm	mm
Vertically/horizontally installed check valve d110	XX.110.L.460Y	110	160	40	170	65
Vertically/horizontally installed check valve d125	XX.125.L.460Y	125	165	40	170	65
Vertically/horizontally installed check valve d140	XX.140.L.460Y	140	170	40	170	70
Vertically/horizontally installed check valve d160	XX.160.L.460Y	160	180	40	205	70
Vertically/horizontally installed check valve d180	XX.180.L.460Y	180	190	40	205	70
Vertically/horizontally installed check valve d200	XX.200.L.460Y	200	200	40	255	70
Vertically/horizontally installed check valve d225	XX.225.L.460Y	225	210	40	255	80
Vertically/horizontally installed check valve d250	XX.250.L.460Y	250	225	40	305	80
Vertically/horizontally installed check valve d280	XX.280.L.460Y	280	240	50	305	90
Vertically/horizontally installed check valve d315	XX.315.L.460Y	315	260	50	358	90
Vertically/horizontally installed check valve d355	XX.355.L.460Y	355	280	50	408	90
Vertically/horizontally installed check valve d400	XX.400.L.460Y	400	300	50	470	120

Markings
a. D external diameter of pipes, mm b. l length of sockets, mm
c. XX material designation PVC-U – 88; PPs – 36; PP – 30; PE – 22 PP-EL-s material on request
d. Y model selection according to the figures above - 1,2 or 3
e. Kp airflow direction
Flap laths L.4603 and L.4601 - made of PVC.
Maximum air velocity 10 m/s.
Other dimensions on request.

1.11. Roof pitch - inclined 0° - 45°

Item description	Cat. no.	D	D1	s	A/A	H1	H2
---	---	mm	mm	mm	mm	mm	mm
					Inclination 0°		
Roof pitch inclined 0° d110	XX.110.L.3000.Y1.Y2	110	160	8	350 × 350	250	400
Roof pitch inclined 0° - 45° d125	XX.125.L.3000.Y1.Y2	125	160	8	350 × 350	250	400
Roof pitch inclined 0° - 45° d140	XX.140.L.3000.Y1.Y2	140	180	8	350 × 350	250	400
Roof pitch inclined 0° - 45° d160	XX.160.L.3000.Y1.Y2	160	200	8	400 × 400	250	400
Roof pitch inclined 0° - 45° d180	XX.180.L.3000.Y1.Y2	180	220	8	400 × 400	250	400
Roof pitch inclined 0° - 45° d200	XX.200.L.3000.Y1.Y2	200	250	8	400 × 400	250	400
Roof pitch inclined 0° - 45° d225	XX.225.L.3000.Y1.Y2	225	280	10	450 × 450	250	400
Roof pitch inclined 0° - 45° d250	XX.250.L.3000.Y1.Y2	250	315	10	450 × 450	250	400
Roof pitch inclined 0° - 45° d280	XX.280.L.3000.Y1.Y2	280	315	10	500 × 500	250	400
Roof pitch inclined 0° - 45° d315	XX.315.L.3000.Y1.Y2	315	400	10	500 × 500	250	400
Roof pitch inclined 0° - 45° d355	XX.355.L.3000.Y1.Y2	355	450	10	550 × 550	250	400
Roof pitch inclined 0° - 45° d400	XX.400.L.3000.Y1.Y2	400	500	10	600 × 600	250	400
					Inclination 1°- 22°		
Roof pitch inclined 1° - 22° d110	XX.110.L.3122.Y1.Y2	110	160	8	400 × 400	300	430
Roof pitch inclined 1° - 22° d125	XX.125.L.3122.Y1.Y2	125	160	8	400 × 400	250	430
Roof pitch inclined 1° - 22° d140	XX.140.L.3122.Y1.Y2	140	180	8	400 × 400	300	435
Roof pitch inclined 1° - 22° d160	XX.160.L.3122.Y1.Y2	160	200	8	450 × 450	300	440
Roof pitch inclined 1° - 22° d180	XX.180.L.3122.Y1.Y2	180	220	8	450 × 450	300	445
Roof pitch inclined 1° - 22° d200	XX.200.L.3122.Y1.Y2	200	250	8	450 × 450	300	450
Roof pitch inclined 1° - 22° d225	XX.225.L.3122.Y1.Y2	225	280	10	500 × 500	300	455
Roof pitch inclined 1° - 22° d250	XX.250.L.3122.Y1.Y2	250	315	10	500 × 500	300	460
Roof pitch inclined 1° - 22° d280	XX.280.L.3122.Y1.Y2	280	315	10	550 × 550	300	470
Roof pitch inclined 1° - 22° d315	XX.315.L.3122.Y1.Y2	315	400	10	550 × 550	300	480
Roof pitch inclined 1° - 22° d355	XX.355.L.3122.Y1.Y2	355	450	10	600 × 600	300	490
Roof pitch inclined 1° - 22° d400	XX.400.L.3122.Y1.Y2	400	500	10	650 × 650	300	500
					Inclination 23° - 45°		
Roof pitch inclined 23° - 45° d110	XX.110.L.3345.Y1.Y2	110	160	8	450 × 450	350	450
Roof pitch inclined 23° - 45° d125	XX.125.L.3345.Y1.Y2	125	160	8	450 × 450	350	460
Roof pitch inclined 23° - 45° d140	XX.140.L.3345.Y1.Y2	140	180	8	450 × 450	350	470
Roof pitch inclined 23° - 45° d160	XX.160.L.3345.Y1.Y2	160	200	8	500 × 500	350	480
Roof pitch inclined 23° - 45° d180	XX.180.L.3345.Y1.Y2	180	220	8	500 × 500	350	490
Roof pitch inclined 23° - 45° d200	XX.200.L.3345.Y1.Y2	200	250	8	500 × 500	350	500
Roof pitch inclined 23° - 45° d225	XX.225.L.3345.Y1.Y2	225	280	10	550 × 550	350	510
Roof pitch inclined 23° - 45° d250	XX.250.L.3345.Y1.Y2	250	315	10	550 × 550	350	525
Roof pitch inclined 23° - 45° d280	XX.280.L.3345.Y1.Y2	280	315	10	600 × 600	350	540
Roof pitch inclined 23° - 45° d315	XX.315.L.3345.Y1.Y2	315	400	10	600 × 600	350	550
Roof pitch inclined 23° - 45° d355	XX.355.L.3345.Y1.Y2	355	450	10	650 × 650	350	570
Roof pitch inclined 23° - 45° d400	XX.400.L.3345.Y1.Y2	400	500	10	700 × 700	350	600

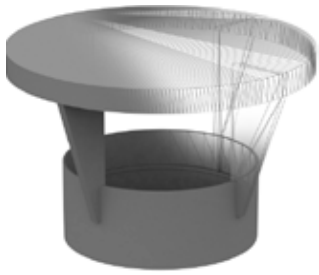


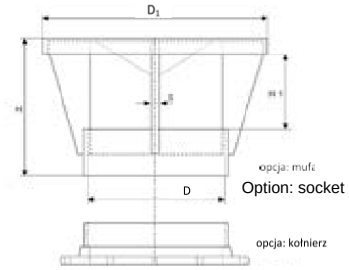


Markings		
a.	D	external diameter of pipes, mm
b.	D1	diameter of the rain protective flange, mm
c.	X X	material designation PVC-U – 88; PPs – 36; PP – 30; PE – 22 PP-EL-s material on request
		selection of version: M - socket option; K - flange option;
d.	Y_1	LK - loose rain protective flange
		selection of version: M - Socket option; K - flange option;
e.	Y_2	LK - loose rain protective flange

Other dimensions on request.

1.12. Rain cover





Option: socket

Option: flange

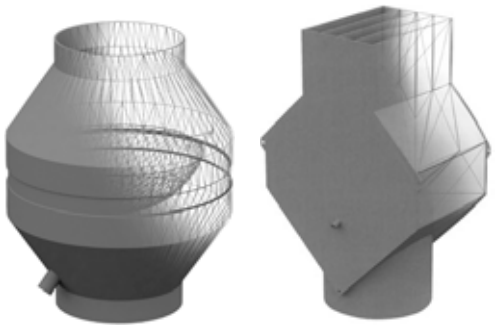
XX.DDD.L.400Y / ζ =1,5

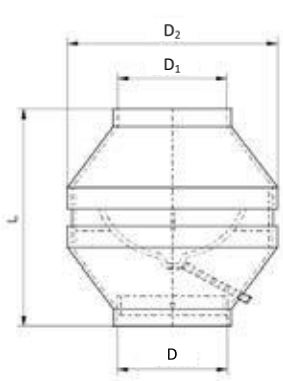
Item description	Cat. no.	D	D_1	s	H	H1
---	---	mm	mm	mm	mm	mm
Rain cover socket/flange d110	XX.110.L.400Y	110	225	8	165	55
Rain cover socket/flange d125	XX.125.L.400Y	125	225	8	175	65
Rain cover socket/flange d140	XX.140.L.400Y	140	250	8	180	70
Rain cover socket/flange d160	XX.160.L.400Y	160	250	8	190	80
Rain cover socket/flange d180	XX.180.L.400Y	180	280	8	200	90
Rain cover socket/flange d200	XX.200.L.400Y	200	315	8	210	100
Rain cover socket/flange d225	XX.225.L.400Y	225	355	8	225	115
Rain cover socket/flanged250	XX.250.L.400Y	250	400	8	235	125
Rain cover socket/flange d280	XX.280.L.400Y	280	450	10	270	140
Rain cover socket/flange d315	XX.315.L.400Y	315	500	10	290	160
Rain cover socket/flange d355	XX.355.L.400Y	355	550	10	300	170
Rain cover socket/flange d400	XX.400.L.400Y	400	600	10	330	200

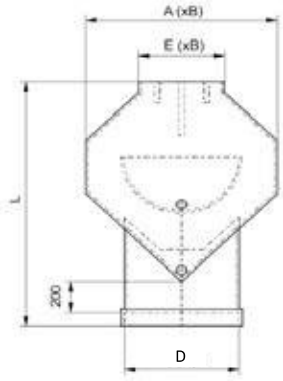
Markings		
a.	D	external diameter of pipes, mm
b.	D1	rain canopy diameter, mm
c.	XX	material designation: PVC-U - 88; PPs - 36; PP - 30; PE - 22 Material PP-EL-s on request
d.	Y	selection of version: socket option - 1 / flange option - 2

Other dimensions on request.

1.13. Socket or flange deflector







Item description	Cat. no.	D	D_1	D_2	L	A(× B)	E(× B)
---	---	mm	mm	mm			
Socket/flange deflector d110	XX.110.L.00YY	110	110	206	290	---	---
Socket/flange deflector d125	XX.125.L.00YY	125	125	256	340	---	---
Socket/flange deflector d140	XX.140.L.00YY	140	140	256	320	---	---
Socket/flange deflector d160	XX.160.L.00YY	160	160	321	410	---	---
Socket/flange deflector d180	XX.180.L.00YY	180	180	321	380	---	---
Socket/flange deflector d200	XX.200.L.00YY	200	200	361	410	---	---
Socket/flange deflector d225	XX.225.L.00YY	225	225	408	430	---	---
Socket/flange deflector d250	XX.250.L.00YY	250	250	458	470	---	---
Socket/flange deflector d280	XX.280.L.00YY	280	280	508	520	---	---
Socket/flange deflector d315	XX.315.L.00YY	315	315	508	440	---	---
Socket/flange deflector d355	XX.355.L.00YY	355	---	---	869	590 × 390	266 × 390
Socket/flange deflector d400	XX.400.L.00YY	400	---	---	992	664 × 440	300 × 440
Socket/flange deflector d450	XX.450.L.00YY	450	---	---	1047	747 × 495	338 × 495
Socket/flange deflector d500	XX.500.L.00YY	500	---	---	1140	830 × 550	375 × 550
Socket/flange deflector d560	XX.560.L.00YY	560	---	---	1235	913 × 605	412 × 605
Socket/flange deflector d600	XX.600.L.00YY	600	---	---	1328	996 × 660	450 × 660
Socket/flange deflector d630	XX.630.L.00YY	630	---	---	1423	1079 × 715	488 × 715
Socket/flange deflector d700	XX.700.L.00YY	700	---	---	1516	1162 × 770	525 × 770
Socket/flange deflector d710	XX.710.L.00YY	710	---	---	1611	1245 × 825	600 × 825
Socket/flange deflector d800	XX.800.L.00YY	800	---	---	1704	1328 × 880	675 × 880

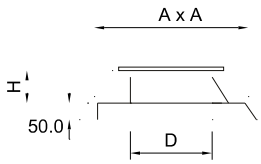
Markings

a. D external diameter of pipes, mm
b. XX material designation
PVC-U – 88; PP-EL-s – 40; PPs – 36; PP – 30; PE – 22
c. YY selection of version: socket - 09; flange - 91

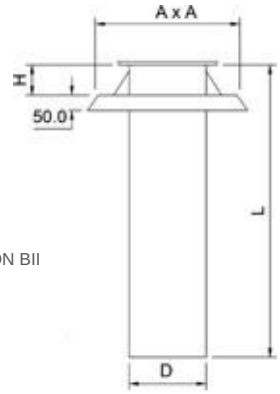
Other dimensions on request.

1.14. Roof fan base

VERSION BI



VERSION BII



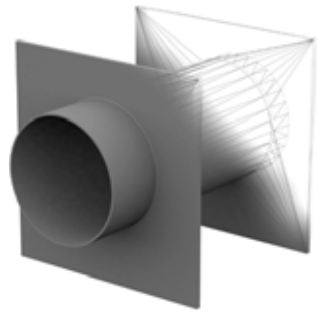
Item description	Cat. no.	D	H	A × A	L
---	---	mm	mm	mm	mm
Roof fan base d110	XX.110.L.3100.Y	110	100	350 × 350	1000
Roof fan base d125	XX.125.L.3100.Y	125	100	350 × 350	1000
Roof fan base d140	XX.140.L.3100.Y	140	100	350 × 350	1000
Roof fan base d160	XX.160.L.3100.Y	160	100	400 × 400	1000
Roof fan base d180	XX.180.L.3100.Y	180	100	400 × 400	1000
Roof fan base d200	XX.200.L.3100.Y	200	100	400 × 400	1000
Roof fan base d225	XX.225.L.3100.Y	225	100	450 × 450	1000
Roof fan base d250	XX.250.L.3100.Y	250	100	450 × 450	1000
Roof fan base d280	XX.280.L.3100.Y	280	100	500 × 500	1000
Roof fan base d315	XX.315.L.3100.Y	315	100	500 × 500	1000
Roof fan base d355	XX.355.L.3100.Y	355	100	500 × 500	1000
Roof fan base d400	XX.400.L.3100.Y	400	100	600 × 600	1000

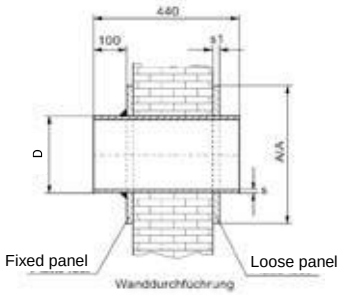
Markings

a.	D	external diameter of pipes, mm
b.	XX	material designation: PVC-U – 88; PPs – 36; PP – 30; PE – 22 PP-EL-s material on request
c.	Y	selection of version, BI or BII

Other versions on request.

1.15. Wall passage





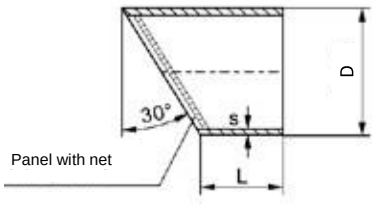
Item description	Cat. no.	D	A/A	s1	s	
					PVC	PE / PP / PPs
---	---	mm	mm	mm	mm	mm
Wall passage d110	XX.110.L.7001	110	210	5	1,8	3
Wall passage d125	XX.125.L.7001	125	275	5	1.8	3
Wall passage d140	XX.140.L.7001	140	290	5	1.8	3
Wall passage d160	XX.160.L.7001	160	310	5	1.8	3
Wall passage d180	XX.180.L.7001	180	330	5	1.8	3
Wall passage d200	XX.200.L.7001	200	350	8	1.8	3
Wall passage d225	XX.225.L.7001	225	425	8	1.8	3.5
Wall passage d250	XX.250.L.7001	250	450	8	2	3.5
Wall passage d280	XX.280.L.7001	280	480	8	2.3	3.5
Wall passage d315	XX.315.L.7001	315	515	8	2.5	5

Markings

a.	D	external diameter of pipes, mm
b.	XX	material designation: PVC-U - 88; PPs - 36; PP - 30; PE - 22 Material PP-EL-s on request

Other dimensions on request.

1.16. Protective net



XX.DDD.L.6001 / ζ =1,4

It is possible to make a flat net (0˚)

Item description	Cat. no.	D	L	s	
				PVC	PE / PP / PPs
---	---	mm	mm	mm	mm
Protective net d110	XX.110.L.6001	110	100	1,8	3
Protective net d125	XX.125.L.6001	125	100	1.8	3
Protective net d160	XX.160.L.6001	160	100	1.8	3
Protective net d180	XX.180.L.6001	180	150	1.8	3
Protective net d200	XX.200.L.6001	200	150	1.8	3
Protective net d225	XX.225.L.6001	225	150	1.8	3.5
Protective net d250	XX.250.L.6001	250	150	2	3.5
Protective net d280	XX.280.L.6001	280	200	2.3	3.5
Protective net d315	XX.315.L.6001	315	200	2.5	5
Protective net d355	XX.355.L.6001	355	200	2.9	5

Markings

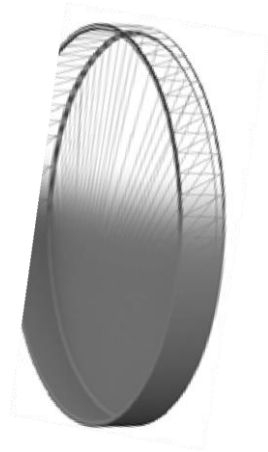
a. D — external pipe diameter, mm

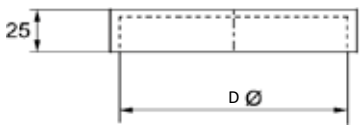
b. XX — material designation
PVC-U – 88; PPs – 36; PP – 30; PE – 22
PP-EL-s material on request

A spigot option is available as standard.

Other dimensions on request.

1.17. Blanker





It is possible to make a flat net (0˚)

Item description	Cat. no.	D
---	---	mm
Blanker d75	XX.075.L.0008	75
Blanker d45	XX.090.L.0008	90
Blanker d110	XX.110.L.0008	110
Blanker d125	XX.125.L.0008	125
Blanker d140	XX.140.L.0008	140
Blanker d160	XX.160.L.0008	160
Blanker d180	XX.180.L.0008	180
Blanker d200	XX.200.L.0008	200
Blanker d225	XX.225.L.0008	225
Blanker d250	XX.250.L.0008	250
Blanker d280	XX.280.L.0008	280
Blanker d315	XX.315.L.0008	315
Blanker d355	XX.355.L.0008	355
Blanker d400	XX.400.L.0008	400
Blanker d450	XX.450.L.0008	450
Blanker d500	XX.500.L.0008	500
Blanker d560	XX.560.L.0008	560
Blanker d600	XX.600.L.0008	600

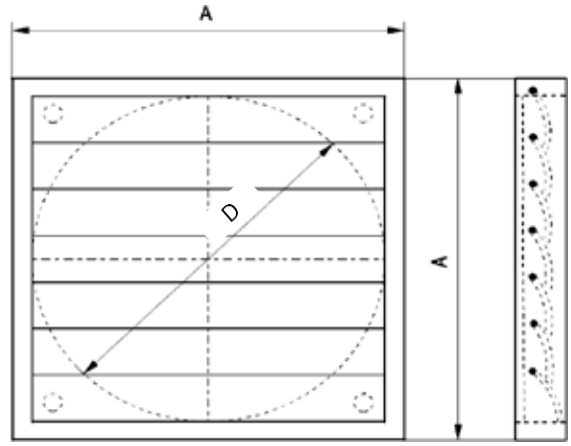
Markings

a. D — external diameter of pipes, mm

b. XX — material designation
PVC-U – 88; PPs – 36; PP – 30; PE – 22
PP-EL-s material on request

Other dimensions on request.

1.18. Closing blind for outdoor installation

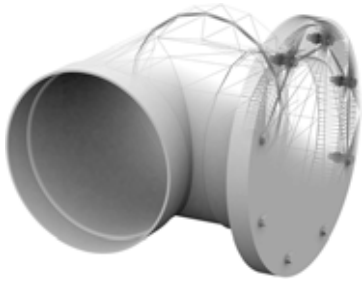


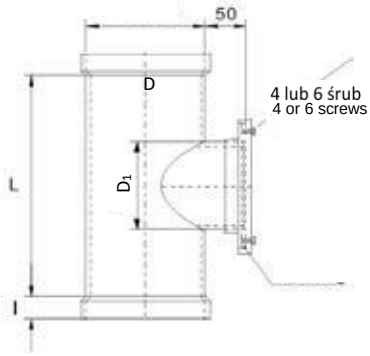
Name of the element	Cat. no.	D	A
---	---	mm	mm
Closing blind LVA 12 d110	88.110.L.0120	110	160
Closing blind LVA 12 d125	88.125.L.0120	125	160
Closing blind LVA 15 d140	88.140.L.0150	140	194
Closing blind LVA 15 d160	88.160.L.0150	160	194
Closing blind LVA 20 d180	88.180.L.0200	180	244
Closing blind LVA 20 d200	88.200.L.0200	200	244
Closing blind LVA 25 d225	88.225.L.0250	225	294
Closing blind LVA 25 d250	88.250.L.0250	250	294
Closing blind LVA 30 d280	88.280.L.0300	280	347
Closing blind LVA 30 d315	88.315.L.0300	315	347
Closing blind LVA 35 d355	88.355.L.0350	355	397
Closing blind LVA 40 d400	88.400.L.0400	400	462
Closing blind LVA 45 d450	88.450.L.0450	450	501
Closing blind LVA 50 d500	88.500.L.0500	500	549
Closing blind LVA 65 d600	88.600.L.0650	600	696

Pressure loss, Vmax = 10 m/s		
d110 - d200	100 m^3/h	7-9 Pa
	1100 m^3/h	60-70 Pa
d225 - d315	100 m^3/h	5 Pa
	1000 m^3/h	18-28 Pa
	2800 m^3/h	30-60 Pa
d355 - d600	100 m^3/h	3-5 Pa
	1000 m^3/h	10-15 Pa
	4500 m^3/h	20-28 Pa

Markings
a. D external diameter of pipes, mm
Frame with lamellas made of grey PVC (RAL 7001).

1.19. Inspection tee





Item description	Cat. no.	D	D1	L	l
---	---	mm	mm	mm	mm
Inspection tee d110/d110	XX.110.TR.0110	110	110	210	40
Inspection tee d125/d125	XX.125.TR.0125	125	125	210	40
Inspection tee d140/d140	XX.140.TR.0140	140	140	210	40
Inspection tee d160/d110	XX.160.TR.0110	160	110	210	40
Inspection tee d160/d160	XX.160.TR.0160	160	160	260	40
Inspection tee d180/d180	XX.180.TR.0180	180	180	260	40
Inspection tee d200/d160	XX.200.TR.0160	200	160	260	40
Inspection tee d200/d200	XX.200.TR.0200	200	200	300	40
Inspection tee d225/d200	XX.225.TR.0200	225	200	300	40
Inspection tee d250/d200	XX.250.TR.0200	250	200	300	40
Inspection tee d250/d250	XX.250.TR.0250	250	250	300	50
Inspection tee d280/d200	XX.280.TR.0280	280	200	300	50
Inspection tee d280/d250	XX.280.TR.0250	280	250	300	50
Inspection tee d315/d250	XX.315.TR.0250	315	250	350	50
Inspection tee d355/d250	XX.355.TR.0250	355	250	350	50
Inspection tee d400/d250	XX.400.TR.0250	400	250	350	50

Markings

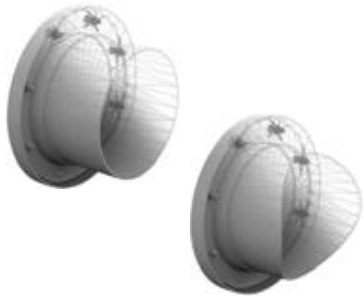
a. D external diameter of pipes, mm

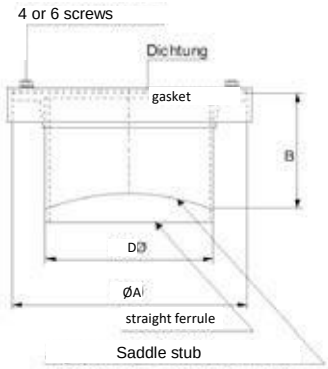
b. D1 diameter of cleaning ferrule, mm

c. XX material designation
PVC-U – 88; PPs – 36; PP – 30; PE – 22
PP-EL-s material on request

Other dimensions on request.

1.20. Inspection ferrule





Item description	Cat. no.	D	ØA	B
---	---	mm	mm	mm
Inspection ferrule d110	XX.110.B.0000	110	180	100
Inspection ferrule d125	XX.125.B.0000	125	200	100
Inspection ferrule d140	XX.140.B.0000	140	225	100
Inspection ferrule d160	XX.160.B.0000	160	250	100
Inspection ferrule d180	XX.180.B.0000	180	280	100
Inspection ferrule d200	XX.200.B.0000	200	280	100
Inspection ferrule d225	XX.225.B.0000	225	315	100
Inspection ferrule d250	XX.250.B.0000	250	355	100
Inspection ferrule d280	XX.280.B.0000	280	400	100
Inspection ferrule d315	XX.315.B.0000	315	400	150
Inspection ferrule d355	XX.355.B.0000	355	450	150
Inspection ferrule d400	XX.400.B.0000	400	500	150

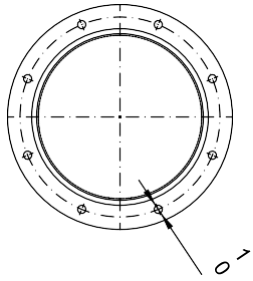
Markings

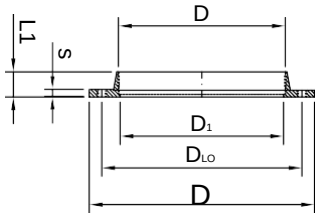
a. D external diameter of pipes, mm

b. XX material designation
PVC-U – 88; PPs – 36; PP – 30; PE – 22
PP-EL-s material on request

Other dimensions on request.

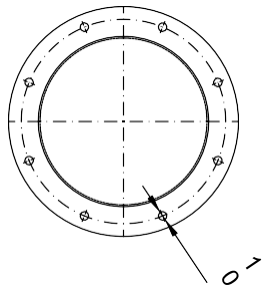
1.21. Socket flange d75 - d400

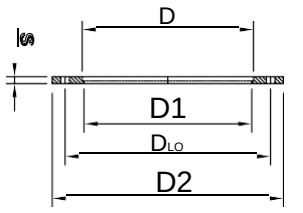




Item description	Cat. no.	D	D_{LO}	D_2	LO	D_1	L1	s
---	---	mm	mm	mm	pcs	mm	mm	mm
Socket flange d75	XX.075.L.0004	75	110	140	8	69	29	6,5
Socket flange d90	XX.090.L.0004	90	128	158	8	84	29	6.5
Socket flange d110	XX.110.L.0004	110	150	170	8	106	30	8
Socket flange d125	XX.125.L.0004	125	165	185	8	122	30	8
Socket flange d140	XX.140.L.0004	140	175	200	8	136	30	8
Socket flange d160	XX.160.L.0004	160	200	230	8	156	30	8
Socket flange d180	XX.180.L.0004	180	220	245	8	176	30	8
Socket flange d200	XX.200.L.0004	200	240	270	8	196	30	8
Socket flange d225	XX.225.L.0004	225	265	290	8	222	30	8
Socket flange d250	XX.250.L.0004	250	290	320	12	246	30	8
Socket flange d280	XX.280.L.0004	280	325	355	12	275	30	10
Socket flange d315	XX.315.L.0004	315	350	380	12	310	30	10
Socket flange d355	XX.355.L.0004	355	400	435	12	349	30	10
Socket flange d400	XX.400.L.0004	400	445	475	16	393	30	10

1.22. Loose flange d450 - d800

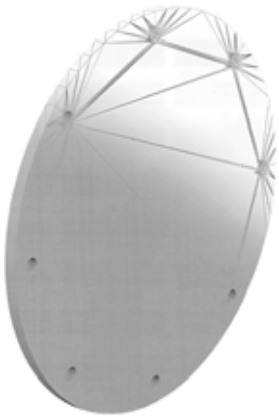


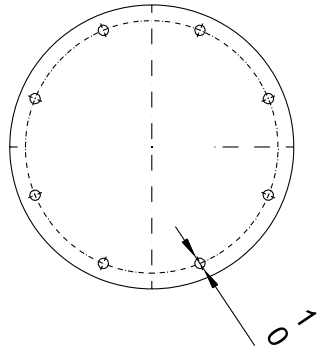


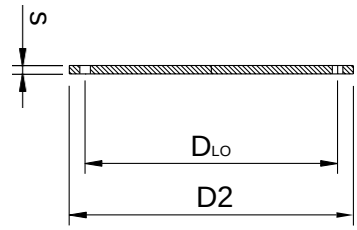
Item description	Cat. no.	D	D_{LO}	D_2	LO
---	---	mm	mm	mm	pcs
Loose flange d450	XX.450.L.0044	450	510	560	16
Loose flange d500	XX.500.L.0044	500	560	610	20
Loose flange d560	XX.560.L.0044	560	610	660	20
Loose flange d600	XX.600.L.0044	600	660	710	24
Loose flange d630	XX.630.L.0044	630	710	760	24
Loose flange d700	XX.700.L.0044	700	760	810	24
Loose flange d710	XX.710.L.0044	710	760	810	24
Loose flange d800	XX.800.L.0044	800	866	916	28

Markings	
a.	D external diameter of pipes, mm
b.	D_2 external flange diameter, mm
c.	D_{LO} hole spacing diameter, mm
d.	LO number of holes, pcs.
e. XX	material designation PVC-U – 88; PPs – 36; PP – 30; PE – 22 PP-EL-s material on request
Other dimensions on request.	

1.23. The blind flange





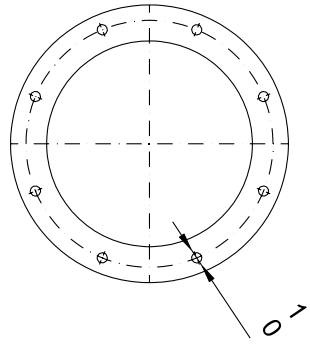


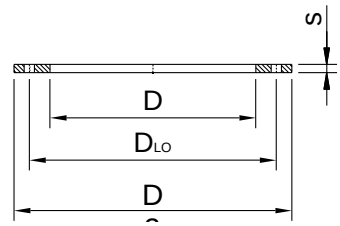
Item description	Cat. no.	D	D_{LO}	D_2	LO	s
---	---	mm	mm	mm	pcs	mm
The blind flange d75	XX.075.L.2568	75	110	140	8	8
The blind flange d90	XX.090.L.2568	90	128	158	8	8
The blind flange d110	XX.110.L.2568	110	150	170	8	8
The blind flange d125	XX.125.L.2568	125	165	185	8	8
The blind flange d140	XX.140.L.2568	140	175	200	8	8
The blind flange d160	XX.160.L.2568	160	200	230	8	8
The blind flange d180	XX.180.L.2568	180	220	250	8	8
The blind flange d200	XX.200.L.2568	200	240	270	8	8
The blind flange d225	XX.225.L.2568	225	265	295	8	8
The blind flange d250	XX.250.L.2568	250	290	320	12	8
The blind flange d280	XX.280.L.2568	280	325	355	12	10
The blind flange d315	XX.315.L.2568	315	350	395	12	10
The blind flange d355	XX.355.L.2568	355	400	435	12	10
The blind flange d400	XX.400.L.2568	400	445	475	16	10
The blind flange d450	XX.450.L.2568	450	510	560	16	12
The blind flange d500	XX.500.L.2568	500	560	610	20	12
The blind flange d560	XX.560.L.2568	560	610	660	20	12
The blind flange d600	XX.600.L.2568	600	660	710	24	12
The blind flange d630	XX.630.L.2568	630	710	760	24	12

Markings		
a.	D	external diameter of pipes, mm
b.	D2	external flange diameter, mm
c.	DLO	holes spacing diameter, mm
d.	LO	number of holes, pcs.
e.	s	flange thickness
f.	XX	material designation PVC-U – 88; PPs – 36; PP – 30; PE – 22 PP-EL-s material on request

Other dimensions on request.

1.24. Gasket

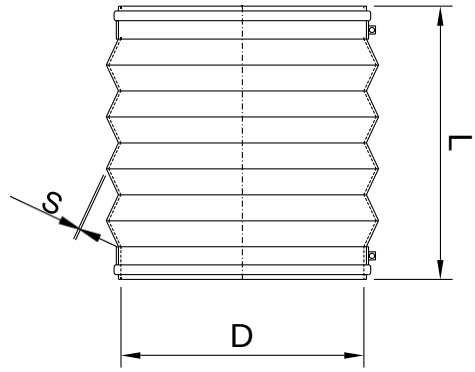




Item description	Cat. no.	D	D_{LO}	D_2	LO	s
---	---	mm	mm	mm	pcs	mm
Gasket d75	22.075.U.0000	75	110	140	8	3
Gasket d90	22.090.U.0000	90	128	158	8	3
Gasket d110	22.110.U.0000	110	150	170	8	3
Gasket d125	22.125.U.0000	125	165	185	8	3
Gasket d140	22.140.U.0000	140	175	200	8	3
Gasket d160	22.160.U.0000	160	200	230	8	3
Gasket d180	22.180.U.0000	180	220	250	8	3
Gasket d200	22.200.U.0000	200	240	270	8	3
Gasket d225	22.225.U.0000	225	265	295	8	3
Gasket d250	22.250.U.0000	250	290	320	12	3
Gasket d280	22.280.U.0000	280	325	355	12	3
Gasket d315	22.315.U.0000	315	350	395	12	3
Gasket d355	22.355.U.0000	355	400	435	12	3
Gasket d400	22.400.U.0000	400	445	475	16	3
Gasket d450	22.450.U.0000	450	510	560	16	3
Gasket d500	22.500.U.0000	500	560	610	20	3
Gasket d560	22.560.U.0000	560	610	660	20	3
Gasket d600	22.600.U.0000	600	660	710	24	3
Gasket d630	22.630.U.0000	630	710	760	24	3

Markings
a. D external diameter of pipes, mm b. D 2 external diameter of the gasket, mm
c. DLO holes spacing diameter, mm
d. LO number of holes, pcs.
e. s gasket thickness
Gasket made of EPDM
Other dimensions on request.

1.25. 4-notch PVC flexible connector

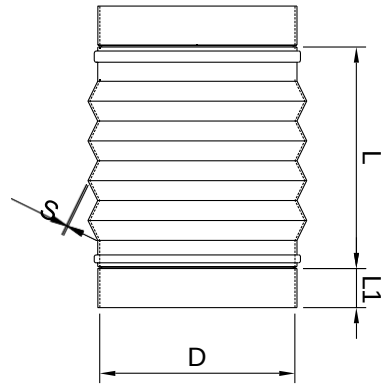


PVC flexible connector with steel bands				
Item description	Cat. no.	D	L	s
---	---	mm	mm	mm
PVC flexible connector d75	88.075.E.0000	75	90	2
PVC flexible connector d90	88.090.E.0000	90	90	2
PVC flexible connector d110	88.110.E.0000	110	90	2
PVC flexible connector d125	88.125.E.0000	125	90	2
PVC flexible connector d140	88.140.E.0000	140	150	2
PVC flexible connector d160	88.160.E.0000	160	150	2
PVC flexible connector d180	88.180.E.0000	180	150	2
PVC flexible connector d200	88.200.E.0000	200	150	2
PVC flexible connector d225	88.225.E.0000	225	150	2
PVC flexible connector d250	88.250.E.0000	250	150	2
PVC flexible connector d280	88.280.E.0000	280	150	2
PVC flexible connector d315	88.315.E.0000	315	150	2
PVC flexible connector d355	88.355.E.0000	355	150	2
PVC flexible connector d400	88.400.E.0000	400	150	2
PVC flexible connector d450	88.450.E.0000	450	150	2
PVC flexible connector d500	88.500.E.0000	500	150	2
PVC flexible connector d560	88.560.E.0000	560	150	2
PVC flexible connector d600	88.600.E.0000	600	150	2

Markings		
a.	D	external diameter of pipes, mm
b.	s	wall thickness, mm
c.	L	length, mm

Other dimensions on request.

1.25. 4-notch PVC flexible connector

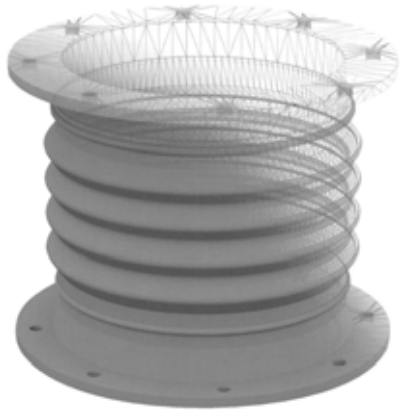


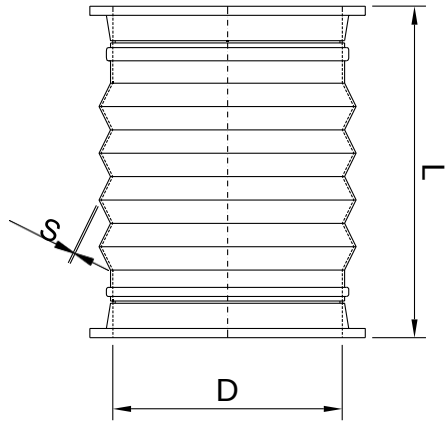
PVC flexible connector with sockets					
Item description	Cat. no.	D	L1	L	s
---	---	mm	mm	mm	mm
PVC flexible connector d75	88.075.E.0001.XX	75	40	130	2
PVC flexible connector d90	88.090.E.0001.XX	90	40	130	2
PVC flexible connector d110	88.110.E.0001.XX	110	40	120	2
PVC flexible connector d125	88.125.E.0001.XX	125	40	130	2
PVC flexible connector d140	88.140.E.0001.XX	140	40	190	2
PVC flexible connector d160	88.160.E.0001.XX	160	40	180	2
PVC flexible connector d180	88.180.E.0001.XX	180	40	190	2
PVC flexible connector d200	88.200.E.0001.XX	200	40	180	2
PVC flexible connector d225	88.225.E.0001.XX	225	40	190	2
PVC flexible connector d250	88.250.E.0001.XX	250	40	180	2
PVC flexible connector d280	88.280.E.0001.XX	280	50	190	2
PVC flexible connector d315	88.315.E.0001.XX	315	50	190	2
PVC flexible connector d355	88.355.E.0001.XX	355	50	190	2
PVC flexible connector d400	88.400.E.0001.XX	400	50	190	2
PVC flexible connector d450	88.450.E.0001.XX	450	50	190	2
PVC flexible connector d500	88.500.E.0001.XX	500	50	190	2
PVC flexible connector d560	88.560.E.0001.XX	560	60	190	2
PVC flexible connector d600	88.600.E.0001.XX	600	60	190	2

Markings		
a.	D	external diameter of pipes, mm
b.	s	wall thickness, mm
c.	L	length, mm
d.	L1	width of socket, mm
e.	XX	designation of socket material PVC-U – 88; PPs – 36; PP – 30; PE – 22 PP-EL-s material on request

Other dimensions on request.

1.25. 4-notch PVC flexible connector



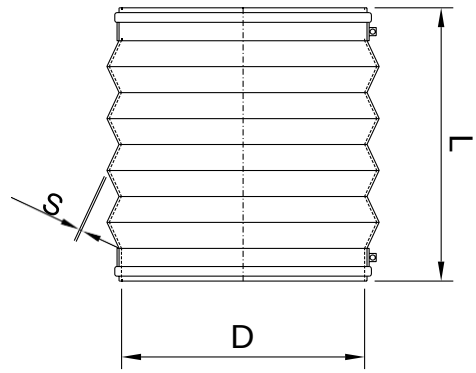


PVC flexible connector with flanges				
Item description	Cat. no.	D	L	s
---	---	mm	mm	mm
PVC flexible connector d75	88.075.E.0003.XX	75	155	2
PVC flexible connector d90	88.090.E.0003.XX	90	155	2
PVC flexible connector d110	88.110.E.0003.XX	110	155	2
PVC flexible connector d125	88.125.E.0003.XX	125	155	2
PVC flexible connector d140	88.140.E.0003.XX	140	215	2
PVC flexible connector d160	88.160.E.0003.XX	160	215	2
PVC flexible connector d180	88.180.E.0003.XX	180	215	2
PVC flexible connector d200	88.200.E.0003.XX	200	215	2
PVC flexible connector d225	88.225.E.0003.XX	225	215	2
PVC flexible connector d250	88.250.E.0003.XX	250	215	2
PVC flexible connector d280	88.280.E.0003.XX	280	215	2
PVC flexible connector d315	88.315.E.0003.XX	315	215	2
PVC flexible connector d355	88.355.E.0003.XX	355	215	2
PVC flexible connector d400	88.400.E.0003.XX	400	215	2
PVC flexible connector d450	88.450.E.0003.XX	450	180	2
PVC flexible connector d500	88.500.E.0003.XX	500	180	2
PVC flexible connector d560	88.560.E.0003.XX	560	180	2
PVC flexible connector d600	88.600.E.0003.XX	600	180	2

Markings		
a.	D	external diameter of pipes, mm
b.	s	wall thickness, mm
c.	L	length, mm
d.	XX	designation of flange material, PVC-U – 88; PPs – 36; PP – 30; PE – 22 PP-EL-s material on request

Other dimensions on request.

1.26. 4-notch TPE flexible connector



TPE flexible connector with steel bands				
Item description	Cat. no.	D	L	s
---	---	mm	mm	mm
TPE flexible connector d160	11.160.E.0700	160	150	2.5
TPE flexible connector d180	11.180.E.0700	180	150	2.5
TPE flexible connector d200	11.200.E.0700	200	150	2.5
TPE flexible connector d225	11.225.E.0700	225	150	2.5
TPE flexible connector d250	11.250.E.0700	250	150	2.5
TPE flexible connector d280	11.280.E.0700	280	150	2.5
TPE flexible connector d315	11.315.E.0700	315	150	2.5
TPE flexible connector d355	11.355.E.0700	355	150	2.5
TPE flexible connector d400	11.400.E.0700	400	150	2.5
TPE flexible connector d450	11.450.E.0700	450	150	2.5
TPE flexible connector d500	11.500.E.0700	500	150	2.5
TPE flexible connector d560	11.560.E.0700	560	150	2.5
TPE flexible connector d600	11.600.E.0700	600	150	2.5

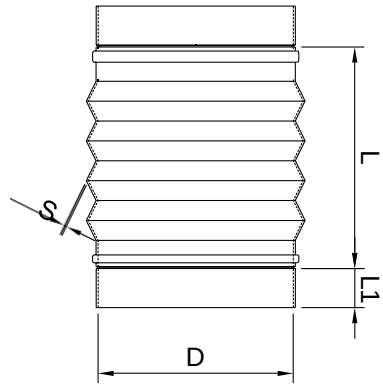
Markings

a. D external diameter of pipes, mm
b. s wall thickness, mm

c. L length, mm

Other dimensions on request.

1.26. 4-notch TPE flexible connector

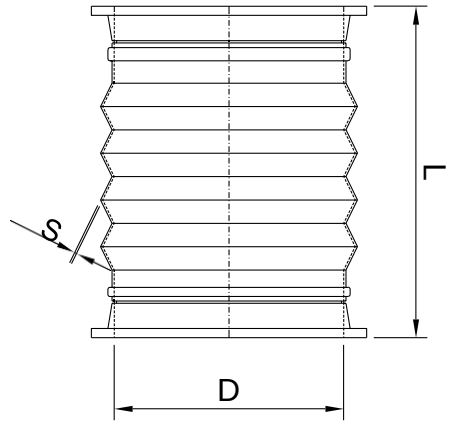


TPE flexible connector with sockets					
Item description	Cat. no.	D	L1	L	s
---	---	mm	mm	mm	mm
TPE flexible connector d160	11.160.E.0701.XX	160	40	180	2.5
TPE flexible connector d180	11.180.E.0701.XX	180	40	190	2.5
TPE flexible connector d200	11.200.E.0701.XX	200	40	180	2.5
TPE flexible connector d225	11.225.E.0701.XX	225	40	190	2.5
TPE flexible connector d250	11.250.E.0701.XX	250	40	180	2.5
TPE flexible connector d280	11.280.E.0701.XX	280	50	190	2.5
TPE flexible connector d315	11.315.E.0701.XX	315	50	190	2.5
TPE flexible connector d355	11.355.E.0701.XX	355	50	190	2.5
TPE flexible connector d400	11.400.E.0701.XX	400	50	190	2.5
TPE flexible connector d450	11.450.E.0701.XX	450	50	190	2.5
TPE flexible connector d500	11.500.E.0701.XX	500	50	190	2.5
TPE flexible connector d560	11.560.E.0701.XX	560	60	190	2.5
TPE flexible connector d600	11.600.E.0701.XX	600	60	190	2.5

Markings		
a.	D	external diameter of pipes, mm
b.	s	wall thickness, mm
c.	L	length, mm
d.	L1	width of socket, mm
e.	XX	designation of socket material PVC-U – 88; PPs – 36; PP – 30; PE – 22 PP-EL-s material on request

Other dimensions on request.

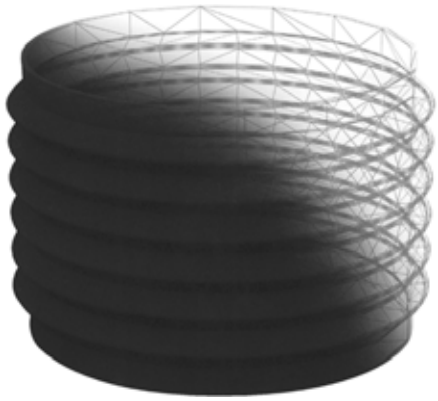
1.26. 4-notch TPE flexible connector

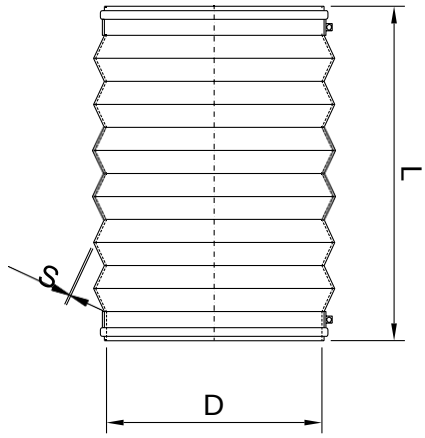


TPE flexible connector with flanges				
Item description	Cat. no.	D	L	s
---	---	mm	mm	mm
TPE flexible connector d160	11.160.E.0703.XX	160	215	2.5
TPE flexible connector d180	11.180.E.0703.XX	180	215	2.5
TPE flexible connector d200	11.200.E.0703.XX	200	215	2.5
TPE flexible connector d225	11.225.E.0703.XX	225	215	2.5
TPE flexible connector d250	11.250.E.0703.XX	250	215	2.5
TPE flexible connector d280	11.280.E.0703.XX	280	215	2.5
TPE flexible connector d315	11.315.E.0703.XX	315	215	2.5
TPE flexible connector d355	11.355.E.0703.XX	355	215	2.5
TPE flexible connector d400	11.400.E.0703.XX	400	215	2.5
TPE flexible connector d450	11.450.E.0703.XX	450	180	2.5
TPE flexible connector d500	11.500.E.0703.XX	500	180	2.5
TPE flexible connector d560	11.560.E.0703.XX	560	180	2.5
TPE flexible connector d600	11.600.E.0703.XX	600	180	2.5

Markings		
a.	D	external diameter of pipes, mm
b.	s	wall thickness, mm
c.	L	length, mm
d.	XX	flange material designation PVC-U – 88; PPs – 36; PP – 30; PE – 22 PP-EL-s material on request
Other dimensions on request.		

1.27. 6-notch flexible connector





Flexible connector with steel bands						
Item description	Cat. no.	D	L	s	L	s
---	---	mm	PVC		TPE	
Flexible connector d160	YY.160.E.0600	160	150	2	150	2.5
Flexible connector d180	YY.180.E.0600	180	150	2	150	2.5
Flexible connector d200	YY.200.E.0600	200	150	2	150	2.5
Flexible connector d225	YY.225.E.0600	225	150	2	150	2.5
Flexible connector d250	YY.250.E.0600	250	150	2	150	2.5
Flexible connector d280	YY.280.E.0600	280	150	2	150	2.5
Flexible connector d315	YY.315.E.0600	315	150	2	150	2.5
Flexible connector d355	YY.355.E.0600	355	150	2	150	2.5
Flexible connector d400	YY.400.E.0600	400	150	2	150	2.5
Flexible connector d450	YY.450.E.0600	450	150	2	150	2.5
Flexible connector d500	YY.500.E.0600	500	150	2	150	2.5
Flexible connector d560	YY.560.E.0600	560	150	2	150	2.5
Flexible connector d600	YY.600.E.0600	600	150	2	150	2.5

Markings

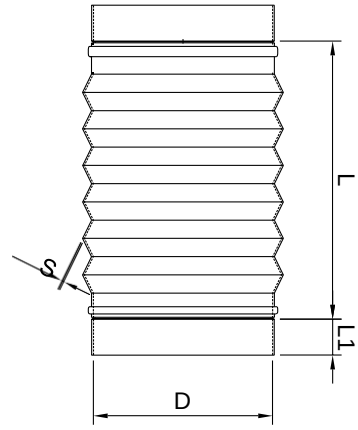
a. D external diameter of pipes, mm
b. s wall thickness, mm

c. L length, mm

d. YY connector material designation, PVC-U - 88; TPE - 11

Other dimensions on request.

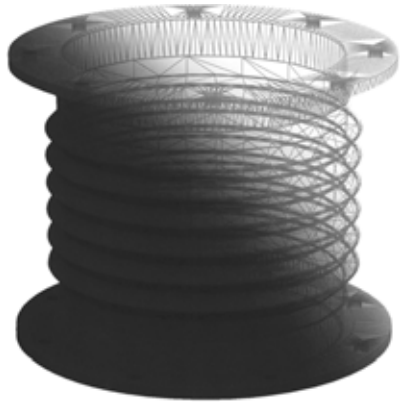
1.27. 6-notch flexible connector

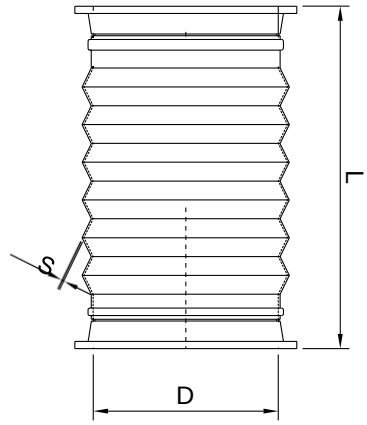


Flexible connector with sockets								
Item description	Cat. no.	D	L1	L	s	L1	L	s
---	---	mm	PVC			TPE		
Flexible connector d160	YY.160.E.0601.XX	160	40	185	2	40	185	2.5
Flexible connector d180	YY.180.E.0601.XX	180	40	195	2	40	195	2.5
Flexible connector d200	YY.200.E.0601.XX	200	40	185	2	40	185	2.5
Flexible connector d225	YY.225.E.0601.XX	225	40	195	2	40	195	2.5
Flexible connector d250	YY.250.E.0601.XX	250	40	185	2	40	185	2.5
Flexible connector d280	YY.280.E.0601.XX	280	50	195	2	50	195	2.5
Flexible connector d315	YY.315.E.0601.XX	315	50	195	2	50	195	2.5
Flexible connector d355	YY.355.E.0601.XX	355	50	195	2	50	195	2.5
Flexible connector d400	YY.400.E.0601.XX	400	50	195	2	50	195	2.5
Flexible connector d450	YY.450.E.0601.XX	450	50	195	2	50	195	2.5
Flexible connector d500	YY.500.E.0601.XX	500	50	195	2	50	195	2.5
Flexible connector d560	YY.560.E.0601.XX	560	60	195	2	60	195	2.5
Flexible connector d600	YY.600.E.0601.XX	600	60	195	2	60	195	2.5

Markings	
a.	D external diameter of pipes, mm
b.	s wall thickness, mm
c.	L width, mm
d.	L1 width of socket, mm
e.	YY connector material designation, PVC-U - 88; TPE - 11
f.	XX designation of socket material PVC-U – 88; PPs – 36; PP – 30; PE – 22 PP-EL-s material on request
Other dimensions on request.	

1.27. 6-notch flexible connector

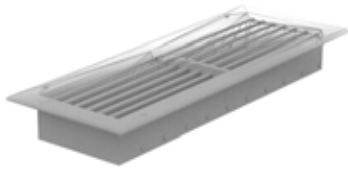


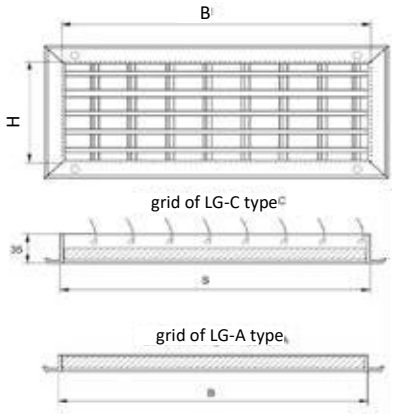


Flexible connector with flanges						
Item description	Cat. no.	D	L	s	L	s
---	---	mm	PVC		TPE	
Flexible connector d160	YY.160.E.0603.XX	160	220	2	220	2.5
Flexible connector d180	YY.180.E.0603.XX	180	220	2	220	2.5
Flexible connector d200	YY.200.E.0603.XX	200	220	2	220	2.5
Flexible connector d225	YY.225.E.0603.XX	225	220	2	220	2.5
Flexible connector d250	YY.250.E.0603.XX	250	220	2	220	2.5
Flexible connector d280	YY.280.E.0603.XX	280	220	2	220	2.5
Flexible connector d315	YY.315.E.0603.XX	315	220	2	220	2.5
Flexible connector d355	YY.355.E.0603.XX	355	220	2	220	2.5
Flexible connector d400	YY.400.E.0603.XX	400	220	2	220	2.5
Flexible connector d450	YY.450.E.0603.XX	450	185	2	185	2.5
Flexible connector d500	YY.500.E.0603.XX	500	185	2	185	2.5
Flexible connector d560	YY.560.E.0603.XX	560	185	2	185	2.5
Flexible connector d600	YY.600.E.0603.XX	600	185	2	185	2.5

Markings	
a.	D external diameter of pipes, mm
b.	s wall thickness, mm
c.	L length, mm
d.	YY connector material designation, PVC-U - 88; TPE - 11
e.	XX flange material designation PVC-U – 88; PPs – 36; PP – 30; PE – 22 PP-EL-s material on request
Other dimensions on request.	

1.28. Grid





Item description	Cat. no.	B	H
---	---	mm	mm
Supply-exhaust grid type LG-A/C 300 × 100	88.300.Y.0100	300	100
Supply-exhaust grid type LG-A/C 400 × 100	88.400.Y.0100	400	100
Supply-exhaust grid type LG-A/C 500 × 100	88.500.Y.0100	500	100
Supply-exhaust grid type LG-A/C 600 × 100	88.600.Y.0100	600	100
Supply-exhaust grid type LG-A/C 300 × 150	88.300.Y.0150	300	150
Supply-exhaust grid type LG-A/C 400 × 150	88.400.Y.0150	400	150
Supply-exhaust grid type LG-A/C 500 × 150	88.500.Y.0150	500	150
Supply-exhaust grid type LG-A/C 600 × 150	88.600.Y.0150	600	150
Supply-exhaust grid type LG-A/C 300 × 200	88.300.Y.0200	300	200
Supply-exhaust grid type LG-A/C 400 × 200	88.400.Y.0200	400	200
Supply-exhaust grid type LG-A/C 500 × 200	88.500.Y.0200	500	200
Supply-exhaust grid type LG-A/C 600 × 200	88.600.Y.0200	600	200
Supply-exhaust grid type LG-A/C 300 × 250	88.300.Y.0250	300	250
Supply-exhaust grid type LG-A/C 400 × 250	88.400.Y.0250	400	250
Supply-exhaust grid type LG-A/C 500 × 250	88.500.Y.0250	500	250
Supply-exhaust grid type LG-A/C 600 × 250	88.600.Y.0250	600	250

Markings

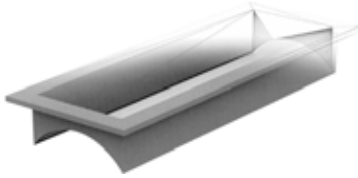
a. Y selection of grid type: A - Horizontal lamellas / C - Horizontal and vertical lamellas

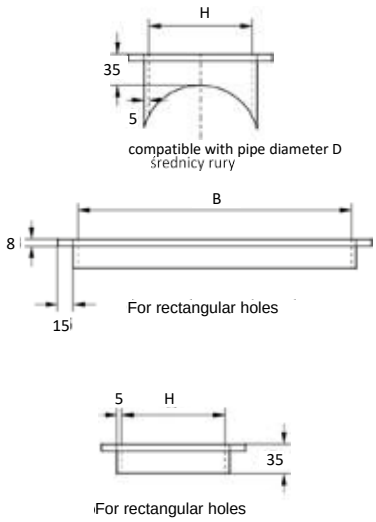
Grids are made of grey PVC.

Other dimensions on request.

Grids with fixed blinds on request.

1.29. Mounting frame





Item description	Cat. no.	B	H
---	---	mm	mm
Mounting frame for LG-A/C 300 × 100 type grids	XX.3010.D.Y	300	100
Mounting frame for LG-A/C 400 × 100 type grids	XX.4010.D.Y	400	100
Mounting frame for LG-A/C 500 × 100 type grids	XX.5010.D.Y	500	100
Mounting frame for LG-A/C 600 × 100 type grids	XX.6010.D.Y	600	100
Mounting frame for LG-A/C 300 × 150 type grids	XX.3015.D.Y	300	150
Mounting frame for LG-A/C 400 × 150 type grids	XX.4015.D.Y	400	150
Mounting frame for LG-A/C 500 × 150 type grids	XX.5015.D.Y	500	150
Mounting frame for LG-A/C 600 × 150 type grids	XX.6015.D.Y	600	150
Mounting frame for LG-A/C 300 × 200 type grids	XX.3020.D.Y	300	200
Mounting frame for LG-A/C 400 × 200 type grids	XX.4020.D.Y	400	200
Mounting frame for LG-A/C 500 × 200 type grids	XX.5020.D.Y	500	200
Mounting frame for LG-A/C 600 × 200 type grids	XX.6020.D.Y	600	200
Mounting frame for LG-A/C 300 × 250 type grids	XX.3025.D.Y	300	250
Mounting frame for LG-A/C 400 × 250 type grids	XX.4025.D.Y	400	250
Mounting frame for LG-A/C 500 × 250 type grids	XX.5025.D.Y	500	250
Mounting frame for LG-A/C 600 × 250 type grids	XX.6025.D.Y	600	250

Markings

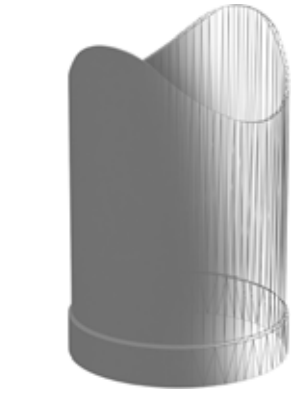
a. Y duct diameter, where the grid is to be installed, mm

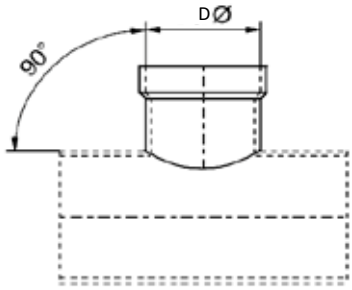
b. XX material designation, PVC-U - 88; PPs - 36; PP - 30; PE - 22 Material PP-EL-s on request.

Dimensions H and B are increased by 5 mm.

Other dimensions on request.

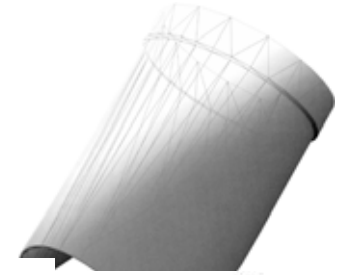
1.30. Saddle stub 90°

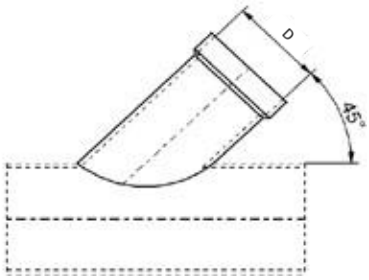




Item description	Cat. no.	D
---	---	mm
Saddle stub with branch 90° d75	XX.075.O.90Y	75
Saddle stub with branch 90° d90	XX.090.O.90Y	90
Saddle stub with branch 90° d110	XX.110.O.90Y	110
Saddle stub with branch 90° d125	XX.125.O.90Y	125
Saddle stub with branch 90° d140	XX.140.O.90Y	140
Saddle stub with branch 90° d160	XX.160.O.90Y	160
Saddle stub with branch 90° d180	XX.180.O.90Y	180
Saddle stub with branch 90° d200	XX.200.O.90Y	200
Saddle stub with branch 90° d225	XX.225.O.90Y	225
Saddle stub with branch 90° d250	XX.250.O.90Y	250
Saddle stub with branch 90° d280	XX.280.O.90Y	280
Saddle stub with branch 90° d315	XX.315.O.90Y	315
Saddle stub with branch 90° d355	XX.355.O.90Y	355
Saddle stub with branch 90° d400	XX.400.O.90Y	400
Saddle stub with branch 90° d450	XX.450.O.90Y	450
Saddle stub with branch 90° d500	XX.500.O.90Y	500
Saddle stub with branch 90° d560	XX.560.O.90Y	560
Saddle stub with branch 90° d600	XX.600.O.90Y	600

1.31. Saddle stub 45°





Item description	Cat. no.	D
---	---	mm
Saddle stub with branch 45° d75	XX.075.O.45Y	75
Saddle stub with branch 45° d90	XX.090.O.45Y	90
Saddle stub with branch 45° d110	XX.110.O.45Y	110
Saddle stub with branch 45° d125	XX.125.O.45Y	125
Saddle stub with branch 45° d140	XX.140.O.45Y	140
Saddle stub with branch 45° d160	XX.160.O.45Y	160
Saddle stub with branch 45° d180	XX.180.O.45Y	180
Saddle stub with branch 45° d200	XX.200.O.45Y	200
Saddle stub with branch 45° d225	XX.225.O.45Y	225
Saddle stub with branch 45° d250	XX.250.O.45Y	250
Saddle stub with branch 45° d280	XX.280.O.45Y	280
Saddle stub with branch 45° d315	XX.315.O.45Y	315
Saddle stub with branch 45° d355	XX.355.O.45Y	355
Saddle stub with branch 45° d400	XX.400.O.45Y	400
Saddle stub with branch 45° d450	XX.450.O.45Y	450
Saddle stub with branch 45° d500	XX.500.O.45Y	500
Saddle stub with branch 45° d560	XX.560.O.45Y	560
Saddle stub with branch 45° d600	XX.600.O.45Y	600

a. D external diameter of pipes, mm

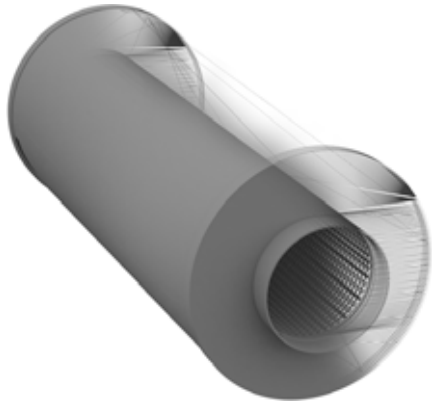
Markings

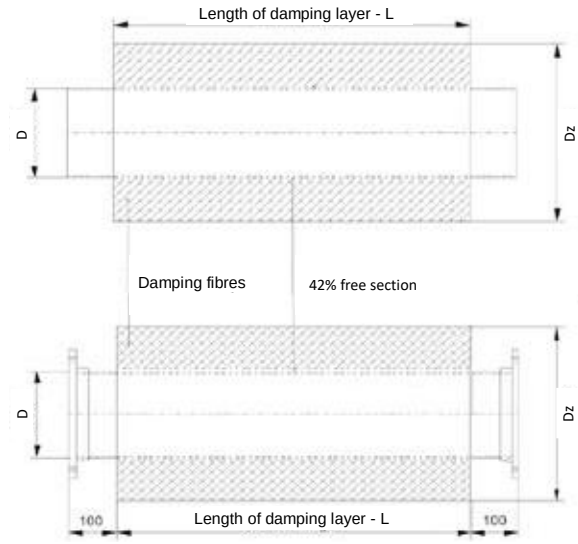
b. Y diameter of the channel on which the stub is to be mounted, mm

c. XX material designation, PVC-U - 88; PPs - 36; PP - 30; PE - 22 Material PP-EL-s on request.

Other dimensions on request.

1.32. Pipe silencer - socket, flange, spigot





Item description	Cat. no.	D	Dz	L
---	---	mm	mm	mm
Acoustic silencer d110/315, length L	XX.110.Y.315L	110	355	500/ 750 / 1000 / 1250
Acoustic silencer d125/315, length L	XX.125.Y.315L	125	355	500/ 750 / 1000 / 1250
Acoustic silencer d140/355, length L	XX.140.Y.355L	140	400	500/ 750 / 1000 / 1250 / 1500 / 1750 / 2000
Acoustic silencer d160/355, length L	XX.160.Y.355L	160	400	500 / 750 / 1000 / 1250 / 1500 / 1750 / 2000
Acoustic silencer d180/400, length L	XX.180.Y.400L	180	450	500 / 750 / 1000 / 1250 / 1500 / 1750 / 2000
Acoustic silencer d200/400, length L	XX.200.Y.400L	200	450	500 / 750 / 1000 / 1250 / 1500 / 1750 / 2000
Acoustic silencer d225/450, length L	XX.225.Y.450L	225	500	500 / 750 / 1000 / 1250 / 1500 / 1750 / 2000
Acoustic silencer d250/450, length L	XX.250.Y.450L	250	500	500 / 750 / 1000 / 1250 / 1500 / 1750 / 2000
Acoustic silencer d280/500, length L	XX.280.Y.500L	280	500	500 / 750 / 1000 / 1250 / 1500 / 1750 / 2000
Acoustic silencer d315/500, length L	XX.315.Y.500L	315	600	500 / 750 / 1000 / 1250 / 1500 / 1750 / 2000
Acoustic silencer d355/500, length L	XX.355.Y.500L	355	500	500 / 750 / 1000 / 1250 / 1500 / 1750 / 2000
Acoustic silencer d400/600, length L	XX.400.Y.600L	400	600	500 / 750 / 1000 / 1250 / 1500 / 1750 / 2000

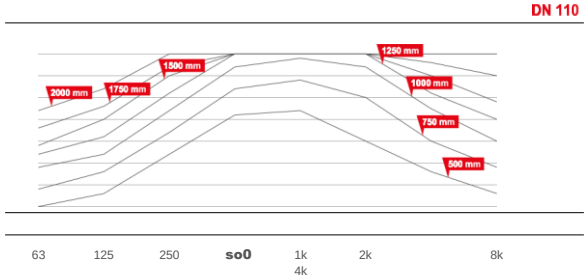
Pressure loss for silencers per 1 running meter of damping backdrop	
flow rate	pressure loss
m/s	Pa/rm
5 - 8	20 - 25
8 - 12	25 - 35
12 - 15	35 - 45

Markings
a. D external pipe diameter, mm b. Dz Outer diameter of the damping layer, mm
c. L length of damping layer, mm
d. Y selection of version: socket - M; flange - K; spigot - B
e. XX flange material designation PVC-U – 88; PPs – 36; PP – 30; PE – 22
Other dimensions on request.
Pressure losses on silencers are shown in the nearby table.
Other lengths on request.

1.32. Pipe silencer - muffled, flanged, spigot

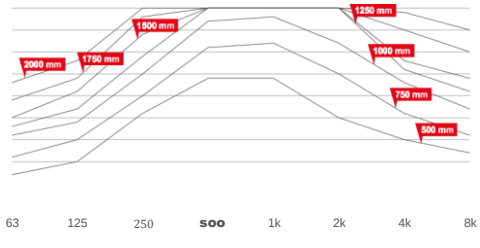
Acoustic characteristics

DN 110



(dB)

DN125

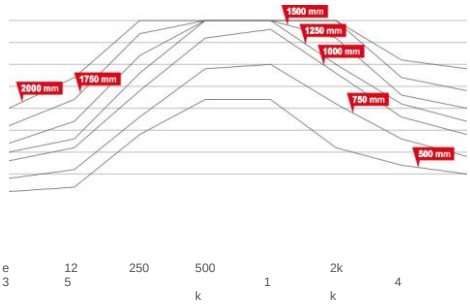


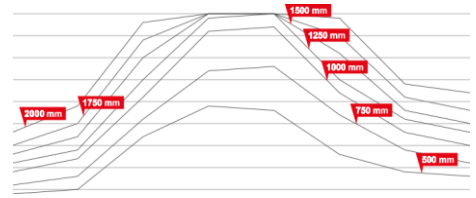
DN

(dB)

DN t40

(dB)





Cn

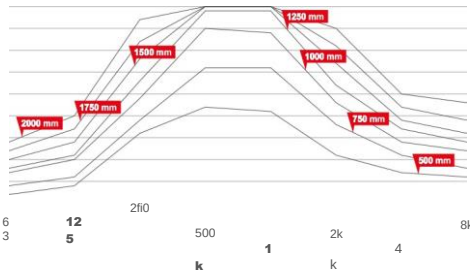
DN 200

(de)

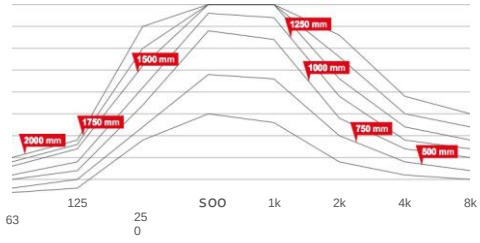
DN 180

(dB)

25



25



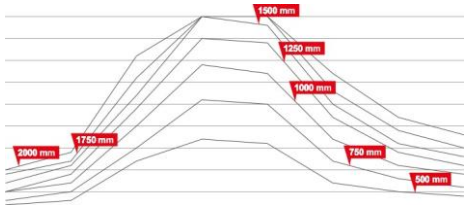
(HZ)

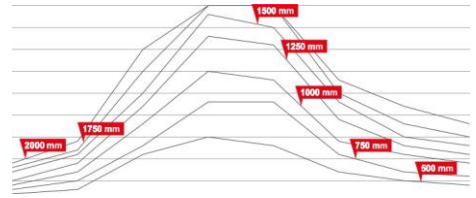
DN

(dB)

DM225

%)



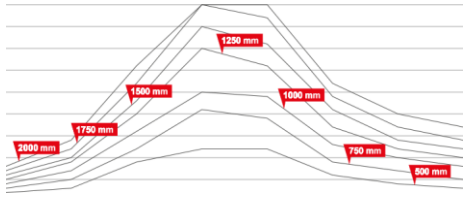


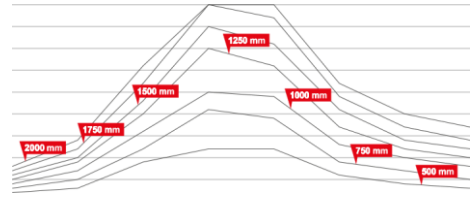
DN

(dB)

DN 280

(dB)





(HZ)

NOTES

2. DUCTS AND FITTINGS
RECTANGULAR SECTION

2.1. CHARACTERISTICS

2.2.1. - 2.2.15. PRODUCTION RANGE

2.1. Characteristics

Description

We would like to present you a production range of plastic pipes and fittings of rectangular section.
The catalogue contains pipes and fittings made according to the following standards:

1a. made of PVC-U:
- Rectangular ducts and fittings - Standard DIN 4740 Teil 5

1b. made of PP, PE and PPs:
- Rectangular ducts and fittings - Standard DIN 4741 Teil 5

2. in accordance with company standards

3. individual production on request

Dimensions

The nominal size, which is the conventional dimension used for the designation and calculation of straight pipes and fittings, is the external dimension of sides a and b, where b is the visible dimension. The lengths of the sides of the smaller end of the transition fitting are marked c and d, where d is the visible dimension.

Impermeability

For welded ducts and fittings connections, the system impermeability is 100%.

Stiffness

Ducts and fittings are stiffened by the appropriately selected thickness of the material they are made of. In case of large ducts, it is possible to use reinforcement ribbing to limit the thickness of the panel - according to the guidelines in the factory standards and DIN.

Ducts and arcs can be stiffened by means of blades according to PN-EN 1505. Blades are not required in elbows and arcs ≤ 45°.

Connections

Possible connection ways of ducts and fittings system:

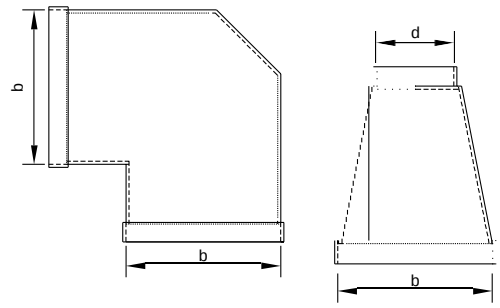
- PVC-U, PP, PPs, PP-EL-s, PE - socket welded of flanged connections

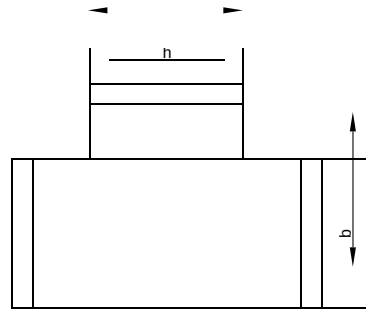
- Connection of the system of pipes and fittings with other ventilation devices is possible by means of standard frames compatible in terms of dimensions with PN-B-76002 standard, or flanges made

  according to the technical documentation provided by the Customer

Wall thickness and dimensions

The standard wall thickness and dimensions are determined on the basis of the internal factory standard (presented in Table TAB.2.1).
We also produce ducts and fittings with walls thicknesses in accordance with DIN 4741 i 4740 Teil 5 standard - both in smooth version as well as reinforced with ribs.



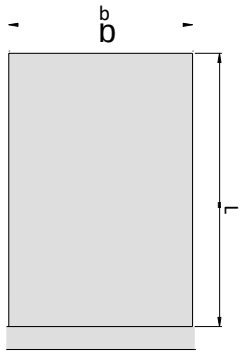


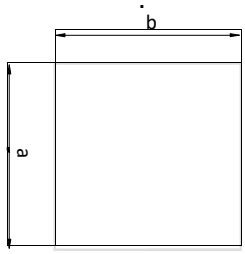
Material designations	
PVC-U	88
PPs	36
PP	30
PE	22
PP-EL-s	40

1. STANDARD WALL THICKNESSES

side length, mm	200	250	300	400	500	600	800	100	120
200	4 mm								
250	4 mm								
300	4 mm								
400	4 mm								
500	6 mm								
600	6 mm								
800	8 mm								
1000	10 mm								
1200	12 mm								

2.2.1. Rectangular duct



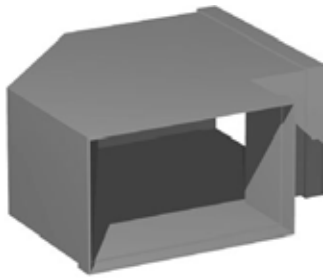


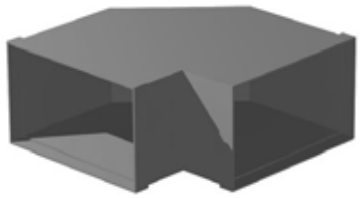
Standard ventilation ducts are made in the following lengths: 1000, 1500, 2000 and 3000 mm, both ends are spigot. Duct ends may also be available in other configurations, as required (socket M - flange K - spigot B). Wall thicknesses and possible ribbing depending on medium parameters. Standard width of the socket - 60 mm

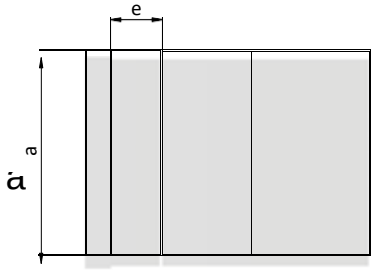
Version B – spigot duct
Version M – duct ended with a socket
Version K – duct ended with a flange

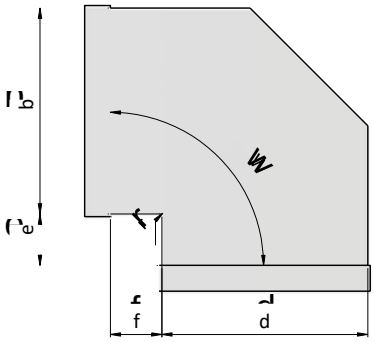
EXAMPLE OF MARKING	88	K	500	300	1500	B
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPe	SIDE a mm	SIDE b mm	LENGTH L	spigot DUCT B DUCT ENDED WITH A SOCKET M DUCT ENDED WITH A FLANGE K

2.2.2. Elbow





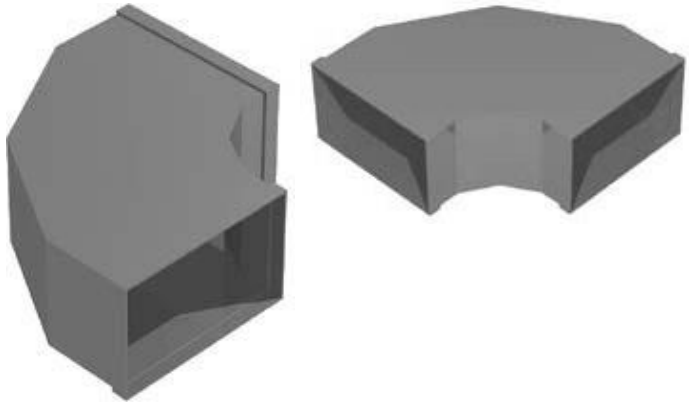


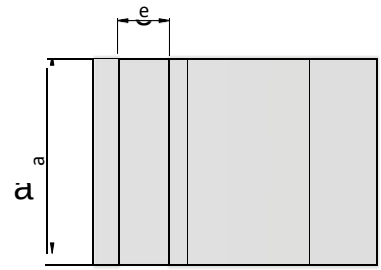


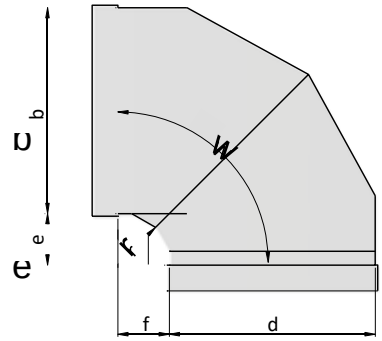
Ventilation elbows are standardly made with angles: 15°, 30°, 45°, 60°, 75° and 90°, both ends are ended with sockets. They can also be available in other configurations, as required (socket M - flange K - spigot B).
It is recommended to use elbows in systems with low speed/pressure and with side b dimensions < 400 mm. The standard offset (e) is 150 mm. Standard width of the socket - 60 mm

EXAMPLE OF MARKING	88	KP	500	300	500	90
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPe	SIDE a mm	SIDE b mm	SIDE d mm	ANGLE w°

2.2.3. Sectional arc



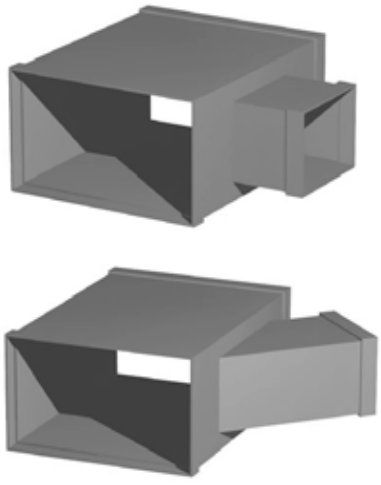


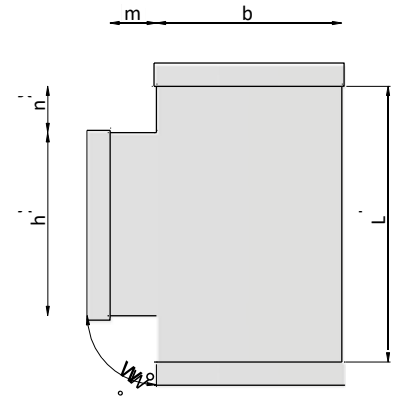


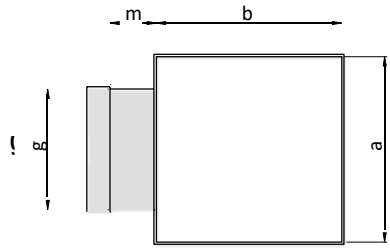
Standard chemically resistant sectional arcs are made with angles: 15°, 30°, 45°, 60°, 75° and 90°, both ends with connection sockets. They can also appear in other configurations – depending on needs- (socket M - flange K - spigot B).
It is recommended to use sectional arcs in systems with low speed/pressure and with side b dimensions > 400 mm. Over its entire length the arc maintains the same cross-sectional area (during air flow its speed does not change) and the standard radius is R = b.
Standard width of socket - 60 mm

EXAMPLE OF MARKING	88	LP	500	300	500	90
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPe	SIDE a mm	SIDE b mm	SIDE d mm	ANGLE w°

2.2.4. Tee



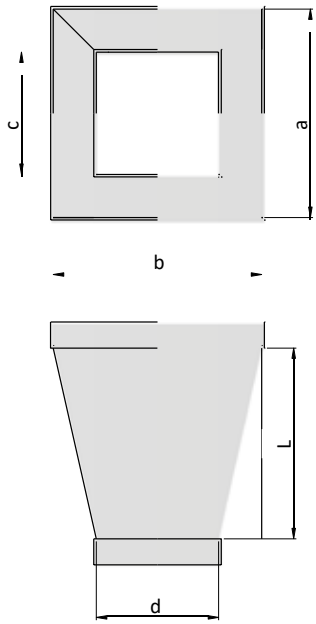




Tees are normally produced with exits of 90° and 45°. They can be used as a reduction or equal flow ones, with all ends ended by connection sockets as standard.
They can also be available in other configurations, as required (socket M - flange K - spigot B).
Dimension n has a standard length 150 mm. Length of dimension L depends on dimensions b and h. It is possible to produce tee with different lengths L and n on special request.
Standard width of the socket - 60 mm

EXAMPLE OF MARKING	88	TR	500	300	200	250	45
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPe	SIDE a mm	SIDE b mm	SIDE EXITS g mm	SIDE EXITS h mm	ANGLE w°

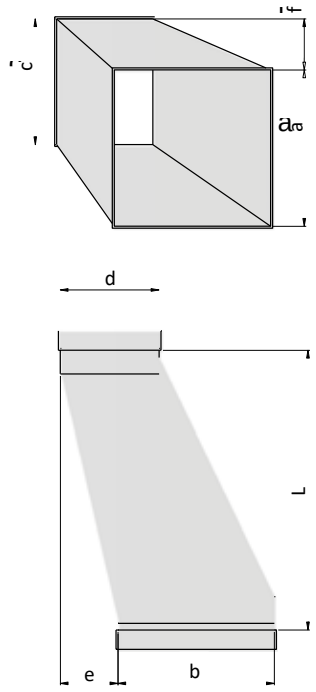
2.2.5. Symmetric reduction



The symmetric ventilation reduction has both ends ended by connection sockets as a standard. It can also be available in other configurations, as required (socket M - flange K - spigot B).
Minimum L length = length of the shorter side.
Standard width of the socket - 60 mm

EXAMPLE OF MARKING	88	RSPP	500	300	200	250	400
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPE	SIDE a mm	SIDE b mm	SIDE c mm	SIDE d mm	LENGTH L mm

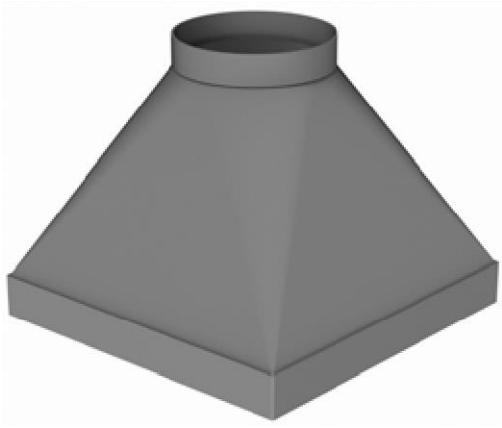
2.2.6. Asymmetric reduction

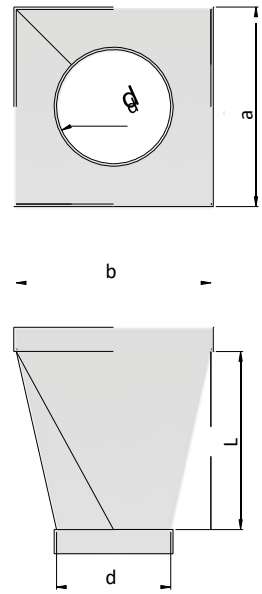


The asymmetric reduction has both ends ended in connection sockets as standard.
It can also be available in other configurations, as required (socket M - flange K - spigot B).
Minimum L length = length of the shorter side.
Standard width of the socket - 60 mm

EXAMPLE OF MARKING	88	RAPP	500	300	200	250	50	400
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPE	SIDE a mm	SIDE b mm	SIDE OF THE EXIT c mm	OFFSET e mm	OFFSET f mm	LENGTH L mm

2.2.7. P/O transition

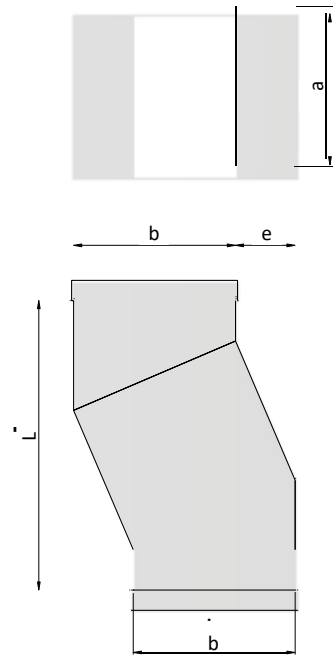




The transition from rectangular to round section has both ends ended with connection sockets.
It can also be available in other configurations, as required (socket M - flange K - spigot B).
Minimum L length = length of the shorter side.
Standard width of the rectangular socket - 60 mm

EXAMPLE OF MARKING	88	RSPO	500	300	200	400
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPE	SIDE a mm	SIDE b mm	DIAMETER Ød mm	LENGTH L mm

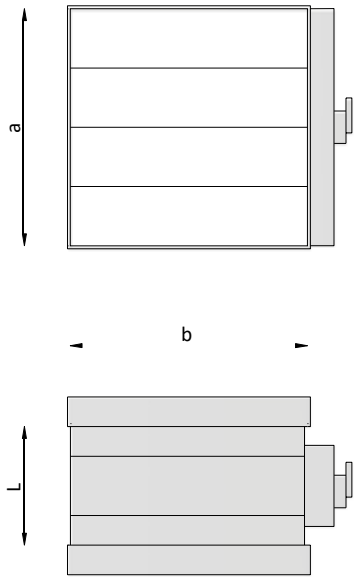
2.2.8. Plinth



Both ends of plinth are ended with connection sockets as a standard. It can also be available in other configurations, as required (socket M - flange K - spigot B).
Standard width of the socket - 60 mm

EXAMPLE OF MARKING	88	OD	500	300	50	600
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPE	SIDE a mm	SIDE b mm	OFFSET e mm	LENGTH L mm

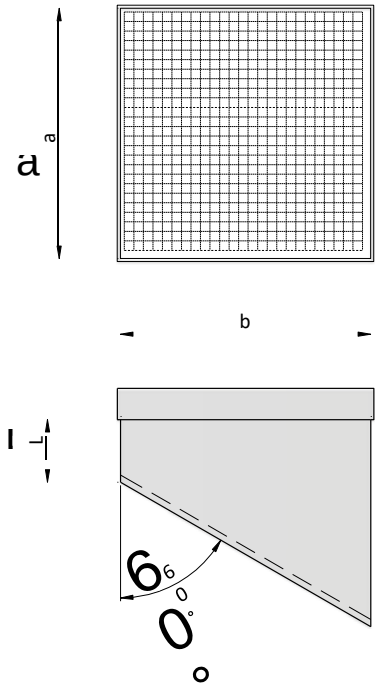
2.2.9. Throttle



The throttle can be made as single- or multi-plane. Connection ferrules as socket M, flanged K or spigot B ones. The equipment is controlled manually as a standard, but depending on requirements it can be adapted to electric or pneumatic drives. Wall thicknesses and possible ribbing depending on medium parameters as well as duct size (axb). There is a possibility to produce the throttles with grid.

EXAMPLE OF MARKING	88	PW	500	300	250	R
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPE	SIDE a mm	SIDE b mm	LENGTH L mm	CONTROL, manual R, electric E, pneumatic P

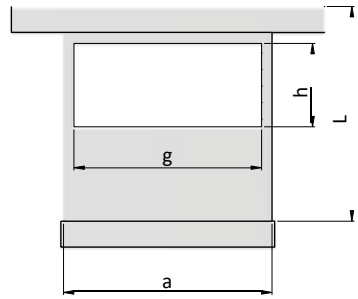
2.2.10. Air intake vent

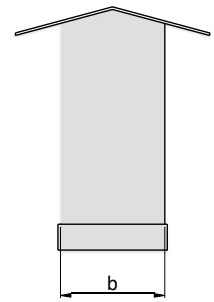


The air intake vent is made with a spigot end as a standard. It can also appear as a socket (see figure) or flanged version.
The minimum length L is 100 mm. Standard
width of the socket - 60 mm

EXAMPLE OF MARKING	88	CP	500	300	200
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPE	SIDE a mm	SIDE b mm	LENGTH L mm

2.2.11. Intake vent- roof exhaust

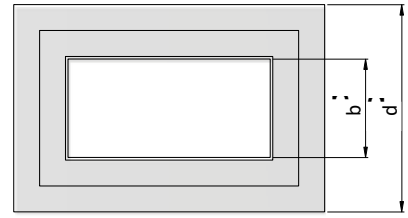


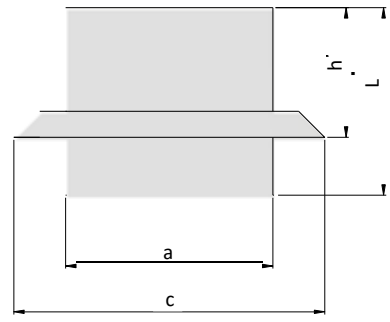


Air intake vent/roof exhaust is equipped with diagonal blinds or perforated panel. Connection ferrules as socket M, flanged K or spigot B ones. Wall thicknesses and possible ribbing depending on medium parameters as well as duct size (axb).

EXAMPLE OF MARKING	88	WD	500	300	300	250	800
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPE	SIDE a mm	SIDE b mm	WIDTH g mm	HEIGHT h mm	LENGTH L mm

2.2.12. Roof base

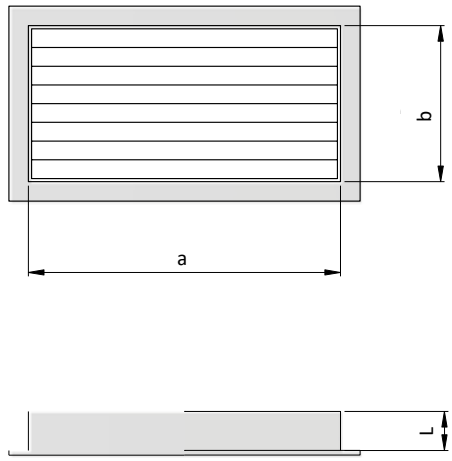




Roof base is equipped with spigot B.
Wall thicknesses and possible ribbing depending on medium parameters as well as duct size (axb).

EXAMPLE OF MARKING	88	PD	500	300	700	500	600
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPE	SIDE a mm	SIDE b mm	FLANGE c mm	FLANGE d mm	LENGTH L mm

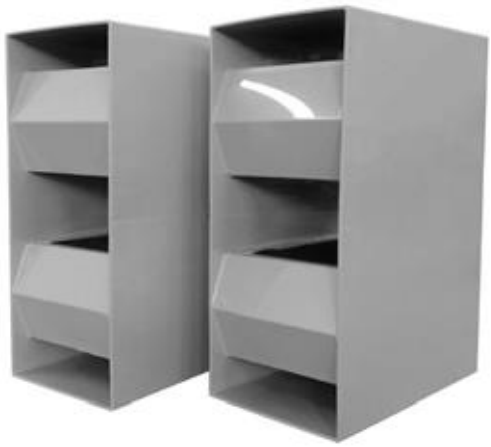
2.2.13. Grid

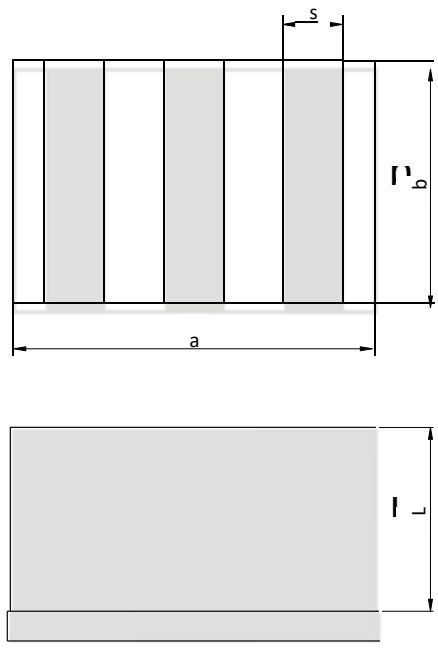


Intake/exhaust grid can be equipped with either permanent diagonal blinds or with the net of perforated panel. Connection ferrules from the duct side as spigot ones B.
Wall thicknesses depending on medium parameters as well as duct size (axb).

EXAMPLE OF MARKING	88	KW	500	300
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPE	SIDE a mm	SIDE b mm

2.2.14. Silencer

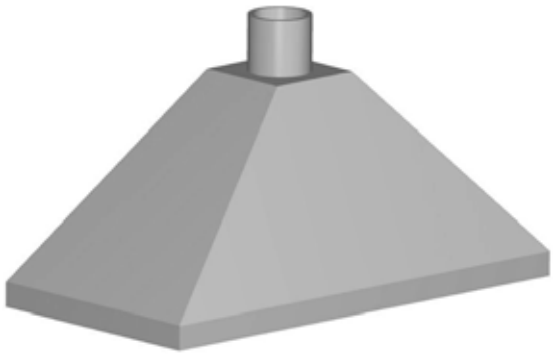


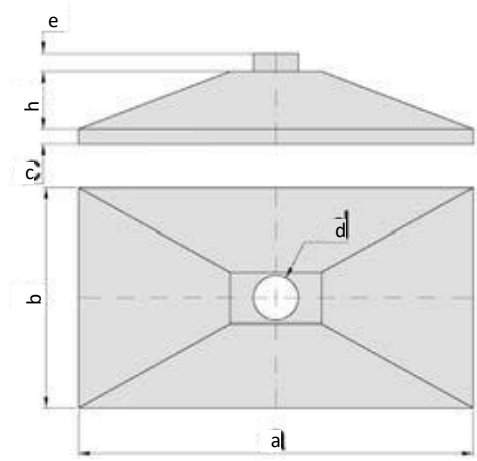


Silencer equipped with vertical damping backdrops of standard width depending on the dimensions of the duct (axb) s=50 mm or s=100 mm. Connection ferrules as socket M, flanged K lor spigot B ones.
Wall thicknesses and possible ribbing depending on medium parameters as well as duct size (axb).

EXAMPLE OF MARKING	88	TA	500	300	100	300
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPE	SIDE a mm	SIDE b mm	CURTAIN s mm	LENGTH L mm

2.2.15. Hood





The hood can be equipped with exhaust ferrule with socket M, flange K or spigot B connection.
Wall thicknesses and possible ribbing depending on medium parameters as well as dimensions size (axb).
The hood can be made in hanging or wall-mounted version. Standard size e=100 mm

EXAMPLE OF MARKING	88	OP	500	300	200	500
	MATERIAL - 30, 36, 88, 22 MATERIAL PP-EL-s (40) on request	TYPE	SIDE a mm	SIDE b mm	DIAMETER Ød mm	HEIGHT h mm

3. CHEMICALLY RESISTANT FANS

3.1. Product range

TYPE		TECHNICAL ADVANTAGES
Small centrifugal fans FRv 075 - 110+		• Compact design with drum rotor • Very quiet • Hermetic shaft sealing • Maintenance-free • Mechanical and electrical flexibility
Centrifugal fans FRv 125 - 280		• High fitting accuracy due to injection moulding production method • Hermetic construction • Extremely easy maintenance • Variable maximum height • Very stable thanks to additional support
Roof fans FDv 110+ - 280 FDvF 110+ - 280		• High fitting accuracy due to injection moulding production method • Extremely easy maintenance • Precise efficiency grading due to double rotor combination • Low internal losses thanks to the drain device • Tropical operation possible thanks to the controlled engine cooling circuit

3.2. Small centrifugal fans FRv 075 - 110+

Small centrifugal fans of Frv type for conveying aggressive and explosive gases, steams and vapours with dust content < 5 mg/m3 and max. temperature 40°C, ambient temperature max. 40°C.

Polypropylene housing, injection moulded, with integrated, maintenance-free sealing system with labyrinth seal.

In the Ex version, additionally with a grease lock and self-sealing ring. Compliant with VDMA 24 169 and RL94/9/EC (ATEX).

Drum rotor made of polypropylene, injection-moulded with dorsal blades to ensure a guaranteed vacuum on the shaft pass during operation.

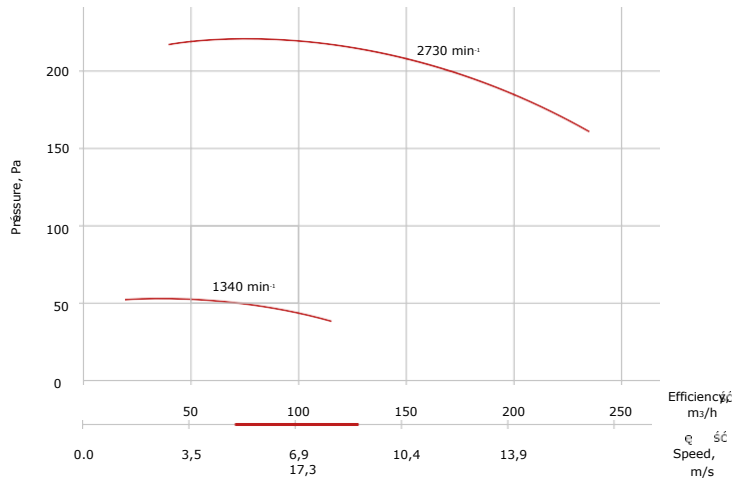
ATEX compliant direct drive with IEC-34 standardized motor with temperature-resistant overhang on the housing and rotor, to prevent deformation of the mounting position even in case of failure.

TECHNICAL DATA	
The position of the housing:	GL
Blowing direction:	8×45° adjustment in C ver. 360°rotation in F version
Drive:	standard motor 1 × 230 V or 3 × 230/400 V, 50 Hz EX version - only 3 × 230/400 V, 50 Hz IP55, thermal class F, with thermal contact
Protection class for Ex version: fan	II 3G c IIB T3 X 04 ATEX D132 motor EExe II2GT3
Version:	C - with plastic console and vibration damper, suitable for any mounting position F - with plastic flange, rotates 360° with seal and vibration damper, suitable for any mounting position

NOTE It is recommended to use PVC or TPE flexible connectors (not included in the scope of delivery, available on pages 27 - 35)

Small centrifugal fans FRv 075 - 110+
3.2.1. Type FRv 075

Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
---	---	3000	2	0.09	0.36	240	220	3.5
---	---	1500	4	0,06	0,35	115	54	3,5
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0,18	0,53	240	220	6
---	---	1500	4	0.12	0.48	115	54	6

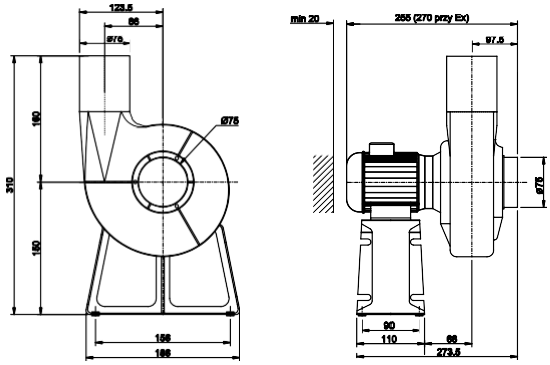


Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

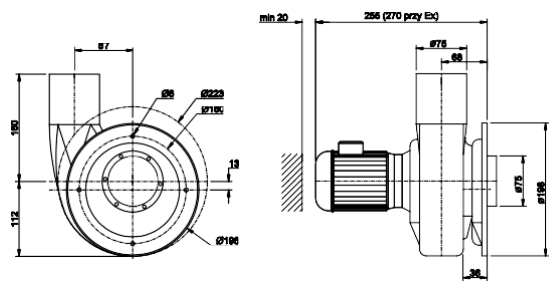
Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	3	35	15	16	15	11	4	2	27	24
3000	20	29	59	36	36	32	27	18	51	45

Dimensions - version with console:

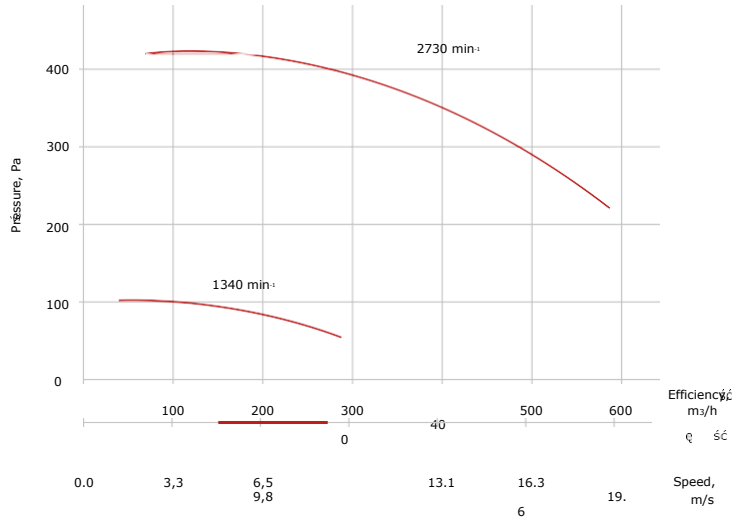


Dimensions - version with flange:



Small centrifugal fans FRv 075 - 110+
3.2.2. Type FRv 110

Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	ted current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m³/h	Pa	kg
rpm								
STANDARD VERSION								
---	---	3000	2	0.09	0.36	590	425	5
---	---	1500	4	0,06	0,35	285	100	5
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0,18	0,53	590	425	8
---	---	1500	4	0.12	0.48	285	100	8

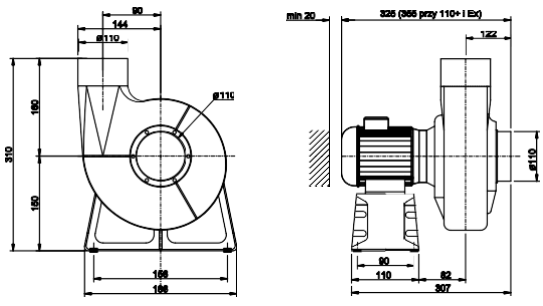


Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

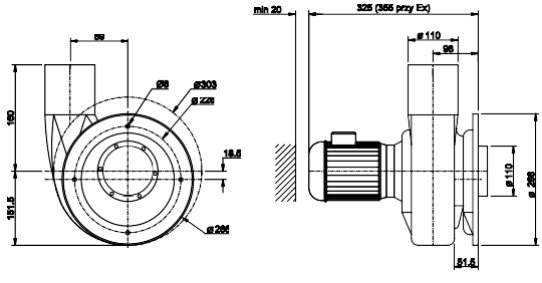
Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	3	46	16	17	16	12	5	2	38	34
3000	20	28	69	36	35	32	26	18	61	55

Dimensions - version with console:

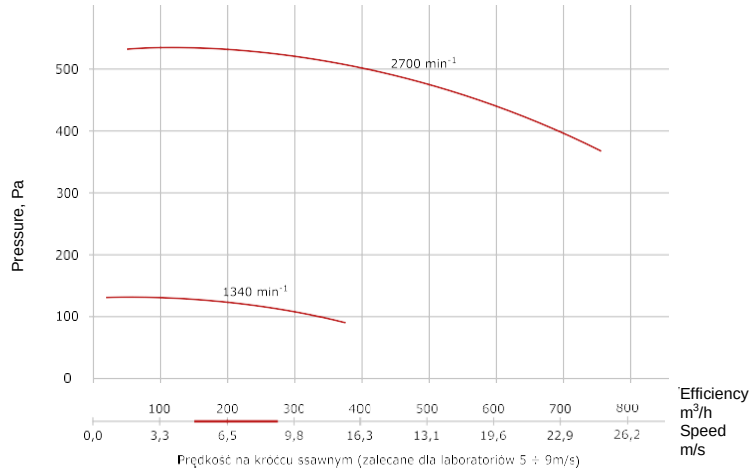


Dimensions - version with flange:



Small centrifugal fans FRv 075 - 110+
3.2.3. Type FRv 110+

Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
540	3240	3000	2	0.18	0.60	735	530	5
---	---	1500	4	0,06	0,35	375	130	5
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0,18	0,53	735	530	8
---	---	1500	4	0.12	0.48	375	130	8

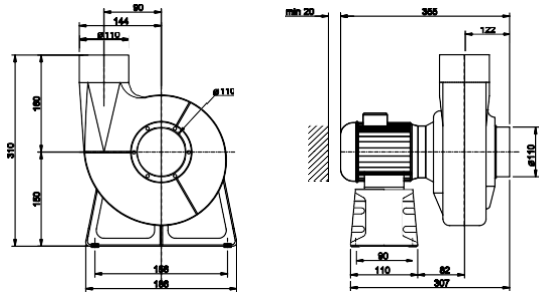


Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

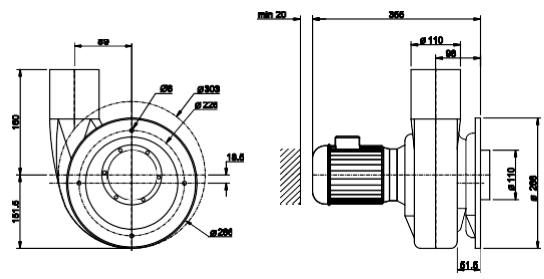
Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	14	57	27	28	27	23	17	8	49	45
3000	30	38	79	46	45	42	36	28	71	65

Dimensions - version with console:



Dimensions - version with flange:



3.3. Centrifugal fans FRv 125 - 280

Centrifugal fans of FRv type for conveying aggressive and explosive gases, steams and vapours with dust content < 5 mg/m3 and max. temperature. 40°C, ambient temperature max. 40°C.

Polypropylene housing, injection moulded, with integrated, maintenance-free sealing system with labyrinth seal.

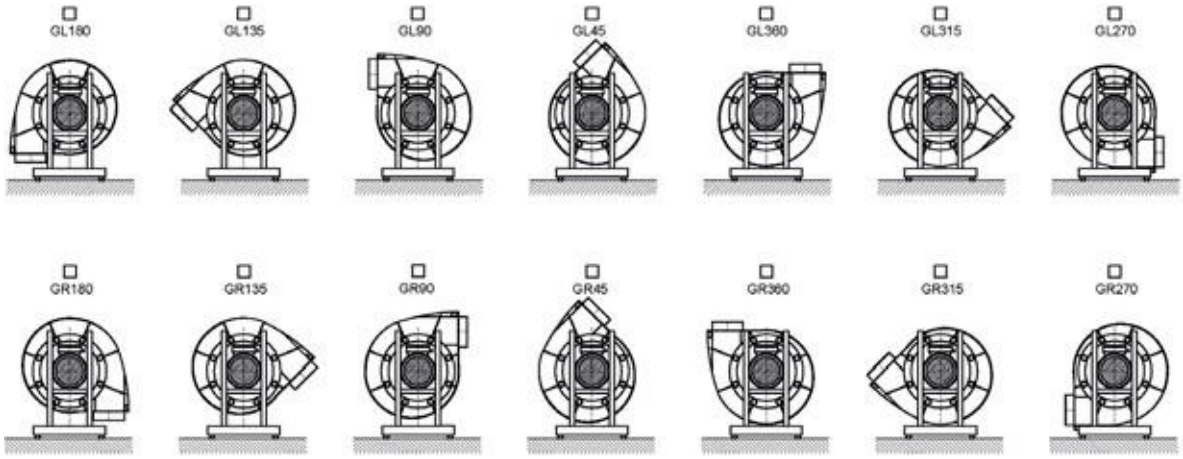
In the Ex version, additionally with a grease lock and self-sealing ring. Compliant with VDMA 24 169 and RL94/9/EC (ATEX).

Drum rotor made of polypropylene, injection-moulded with dorsal blades to ensure a guaranteed vacuum on the shaft pass during operation.

ATEX compliant direct drive with IEC-34 standardized motor with temperature-resistant overhang on the housing and rotor, to prevent deformation of the mounting position even in case of failure.

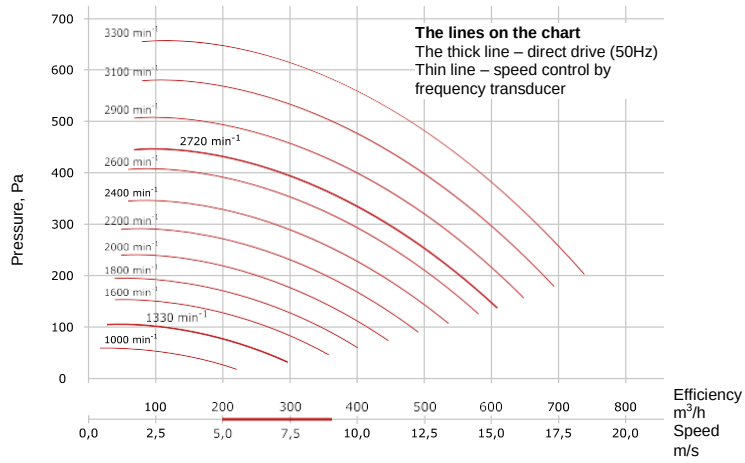
TECHNICAL DATA	
The position of the housing:	GL / GR
Blowing direction:	45° / 90° / 135° / 180° / - / 270° / 315° / 360°
Drive:	standard motor 1 × 230 V or 3 × 230/400 V, 50 Hz EX version - only 3 × 230/400 V, 50 Hz IP55, thermal class F, with thermal contact
Protection class for the Ex version:	fan II 3G c IIB T3 X 05 ATEX D085, motor EExe II2GT3
The version:	C - with plastic console and vibration damper, suitable for any mounting position F - with plastic flange, rotates 360° with seal and vibration damper, suitable for any mounting position
Accessories:	set of resin vibration dampers
WARNING	• It is recommended to use PVC or TPE flexible connectors (not included in the scope of delivery, available on pages 27 - 35) • For fans with parameters exceeding those included in the catalogue - offer on request

Fans installation versions (motor-side view)



Centrifugal fans FRv 125 - 280
3.3.1. Type FRv 125

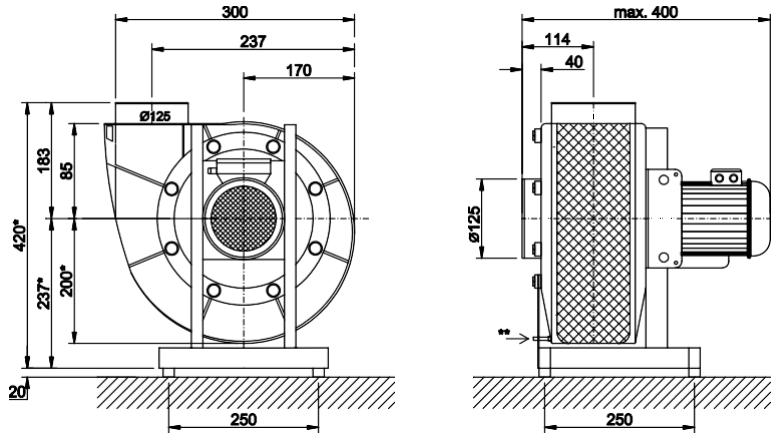
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
544	3264	3000	2	0.12	0.50	610	440	11
266	1596	1500	4	0,06	0,35	300	110	11
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0,18	0,53	610	440	15
---	---	1500	4	0.12	0.48	300	110	15



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	31	46	42	43	40	35	27	16	63	53
3000	49	57	68	63	61	57	50	40	63	53

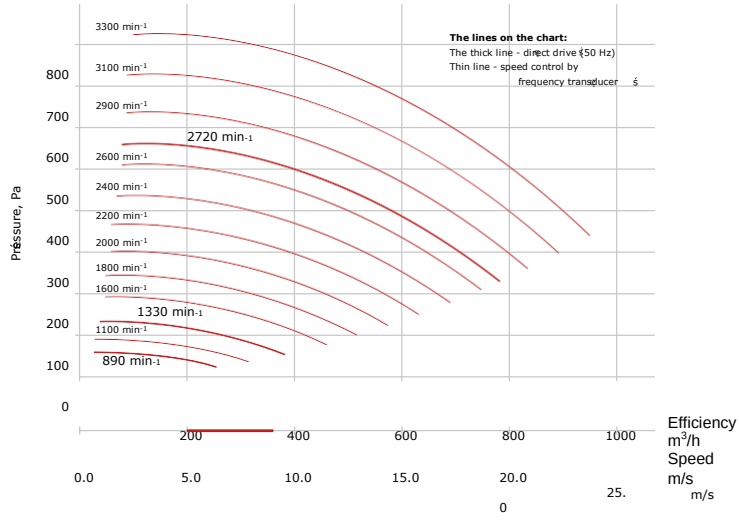


*- at housing position 270 + 315° - dimension + 40mm

** -Condensate exhaust Ø 12 mm

Centrifugal fans FRv 125 - 280
3.3.2. Type FRv 125/140

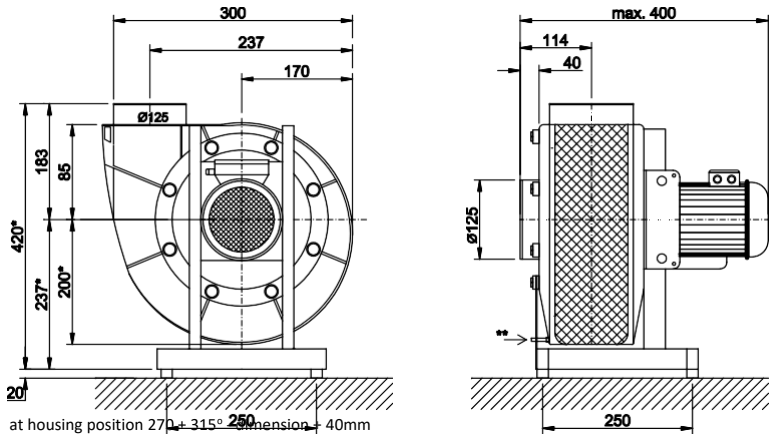
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
544	3264	3000	2	0.12	0.50	790	560	11
266	1596	1500	4	0,06	0,35	380	140	11
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0,18	0,53	790	560	15
---	---	1500	4	0.12	0.48	380	140	15



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	38	58	49	49	46	40	32	21	51	39
3000	56	64	81	69	67	63	55	46	74	60

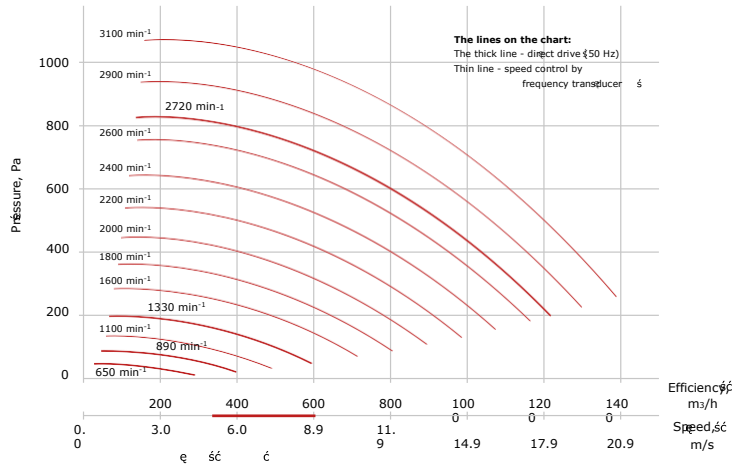


*- at housing position 270 ÷ 315° dimension = 40mm

**- Condensate exhaust Ø 12 mm

Centrifugal fans FRv 125 - 280
3.3.3. Type FRv 160

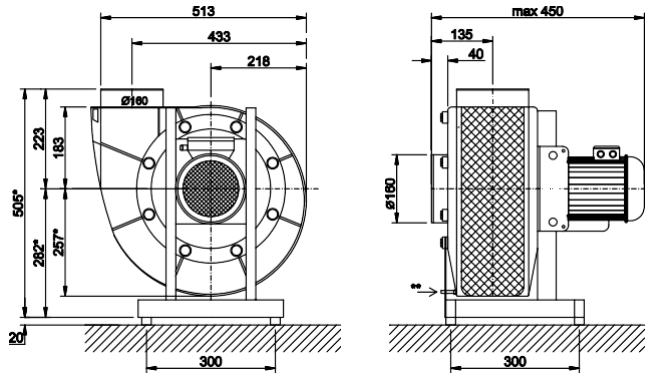
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m³/h	Pa	kg
rpm								
STANDARD VERSION								
544	3264	3000	2	0.37	1.10	1220	820	15
266	1596	1500	4	0,12	0,70	590	200	15
178	1068	1000	6	0.12	0.63	400	95	15
---	---	3000/1500	2/4	0,55/0,11	1,27/0,34	1220	820	15
---	---	1500/1000	4/6	0.18/0.051	0.80/0.38	590	200	15
---	---	1500/750	4/8	0,18/0,037	0,62/0,24	590	200	15
---	---	1500/750	4/8	0.18/0.04	0.62/0.24	---	---	15
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.37	0.97	1220	820	20
---	---	1500	4	0,12	0,48	590	200	20



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	69	53	50	51	48	42	35	24	49	40
3000	57	65	76	71	69	64	58	48	70	61

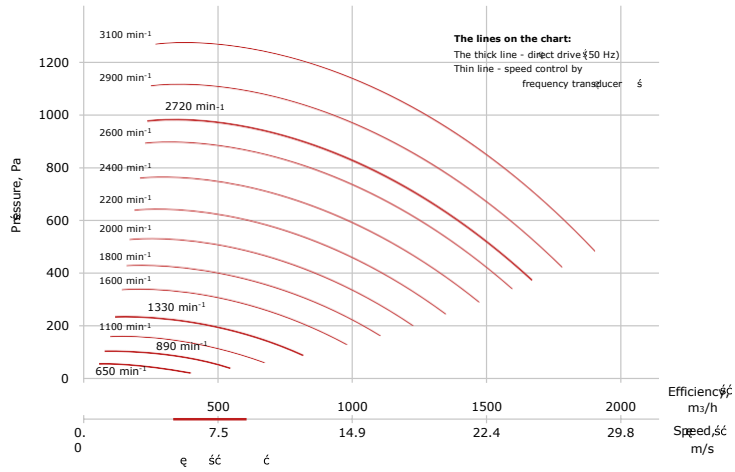


*- at housing position 270 + 315° - dimension + 40mm

** -Condensate exhaust Ø 12 mm

Centrifugal fans FRv 125 - 280
3.3.4. Type FRv 160/180

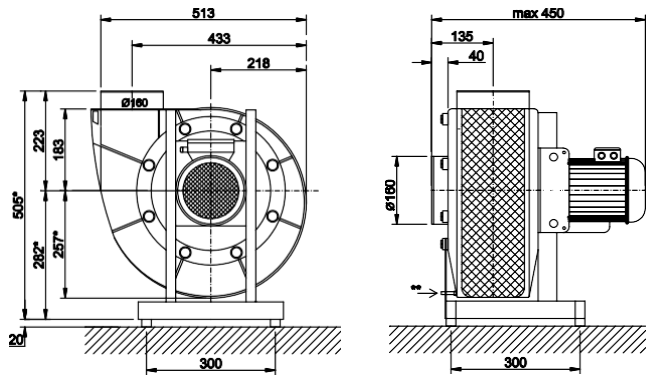
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
544	3264	3000	2	0.37	1.10	1700	990	15
266	1596	1500	4	0,12	0,70	830	240	15
178	1068	1000	6	0.12	0.63	550	100	15
---	---	3000/1500	2/4	0,55/0,11	1,27/0,34	1700	990	15
---	---	1500/1000	4/6	0.18/0.051	0.80/0.38	830	240	15
---	---	1500/750	4/8	0,18/0,037	0,62/0,24	830	240	15
---	---	1500/750	4/8	0.18/0.04	0.62/0.24	---	---	15
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.37	0.97	1700	990	20
---	---	1500	4	0,12	0,48	830	240	20



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	44	66	57	57	54	48	40	29	59	47
3000	64	72	89	77	76	71	64	54	82	69

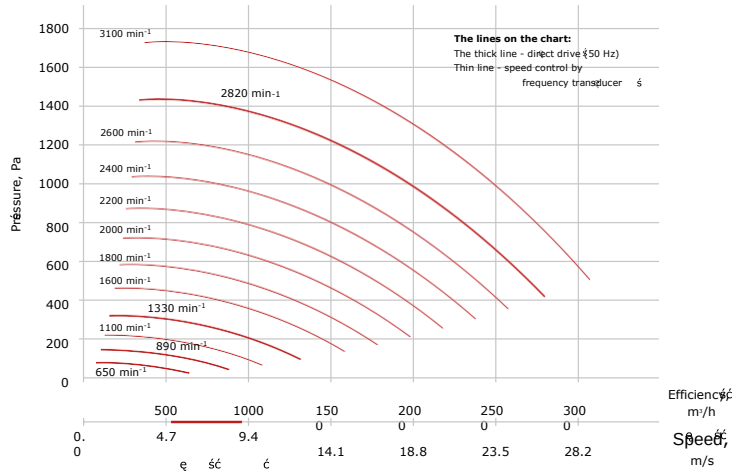


* - at housing position 270 + 315° - dimension + 40mm

** -Condensate exhaust Ø 12 mm

Centrifugal fans FRv 125 - 280
3.3.5. Type FRv 200

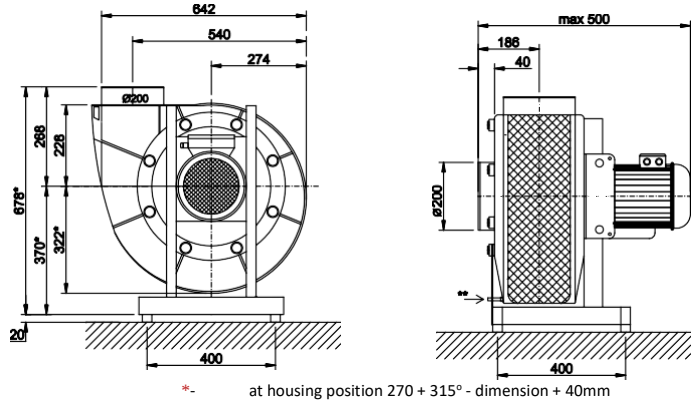
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
564	3384	3000	2	0.75	2.00	2800	1420	25
266	1596	1500	4	0,25	0,86	1300	310	25
178	1068	1000	6	0.18	1.00	800	150	25
---	---	3000/1500	2/4	0,95/0,25	2,3/0,7	2800	1420	25
---	---	1500/1000	4/6	0.26/0.075	1.07/0.75	1300	310	25
---	---	1500/750	4/8	0,26/0,051	0,86/0,31	1300	310	25
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.75	1.76	2800	1420	30
---	---	1500	4	0,25	0,79	1300	310	30
---	---	1000	6	0.37	1.30	800	150	30



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	46	60	57	58	55	50	42	31	56	47
3000	64	72	83	78	76	72	65	55	77	68

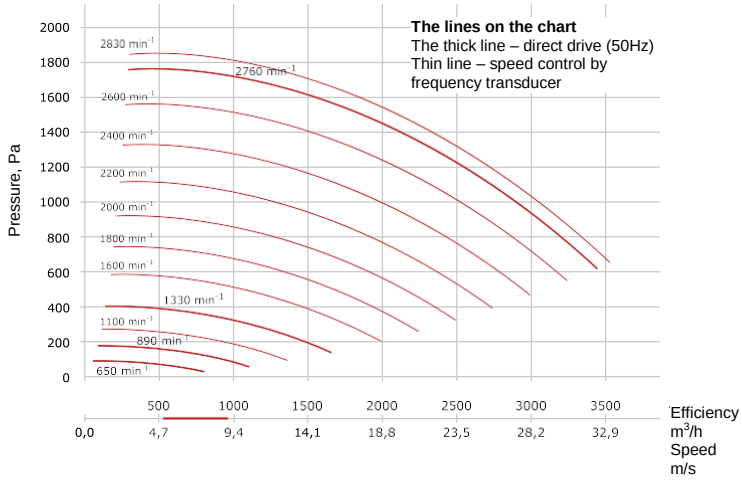


*- at housing position 270 + 315° - dimension + 40mm

** -Condensate exhaust Ø 12 mm

Centrifugal fans FRv 125 - 280
3.3.6. Type FRv 200/225

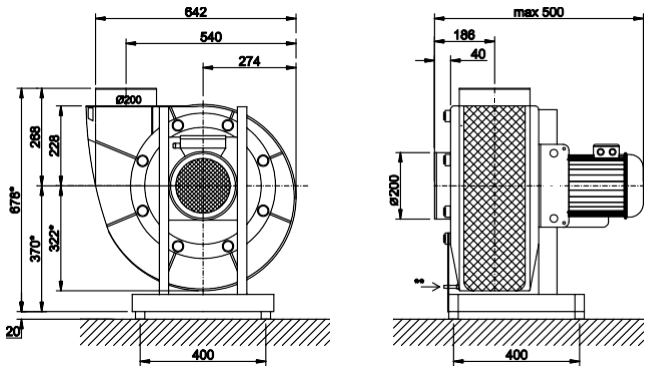
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
552	3312	3000	2	1.1	2.60	3430	1760	25
266	1596	1500	4	0,25	0,86	1680	400	25
178	1068	1000	6	0.18	1.00	1090	190	25
---	---	3000/1500	2/4	0,95/0,25	2,3/0,7	3430	1760	25
---	---	1500/1000	4/6	0.26/0.075	1.07/0.75	1680	400	25
---	---	1500/750	4/8	0,26/0,051	0,86/0,31	1680	400	25
EX VERSION - EEXE II 2GT3								
---	---	3000	2	1.1	2.60	3430	1760	30
---	---	1500	4	0,25	0,79	1680	400	30
---	---	1000	6	0.37	1.30	1090	190	30



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

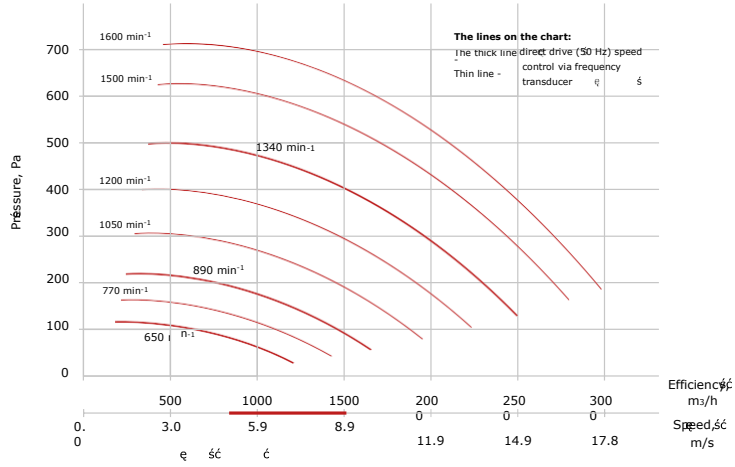
Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	53	73	64	64	61	55	47	36	67	54
3000	71	79	96	84	83	78	71	61	89	76



*- at housing position 270 + 315° - dimension + 40mm
** -Condensate exhaust Ø 12 mm

Centrifugal fans FRv 125 - 280
3.3.7. Type FRv 250

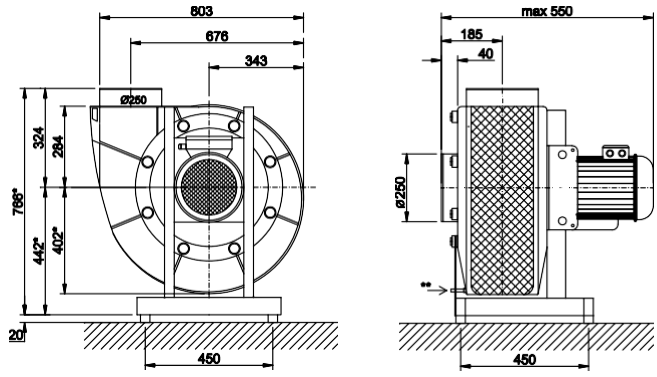
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m³/h	Pa	kg
rpm								
STANDARD VERSION								
268	1608	1500	4	0.37	1.20	2500	500	30
178	1068	1000	6	0,18	1,00	1700	220	30
130	780	750	8	0.12	0.80	1200	110	30
---	---	1500/1000	4/6	0,55/0,18	1,75/0,66	2500	500	30
---	---	1500/750	4/8	0.50/0.10	1.00/0.42	2500	500	30
EX VERSION - EEXE II 2GT3								
---	---	1500	4	0.37	1.08	2500	500	35
---	---	1000	6	0,37	1,30	1700	220	35
---	---	750	8	0.18	0.78	1200	110	35



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	53	67	64	65	62	57	49	38	63	54
950	43	57	53	53	50	44	36	25	52	41
750	42	42	44	44	41	34	26	14	42	32

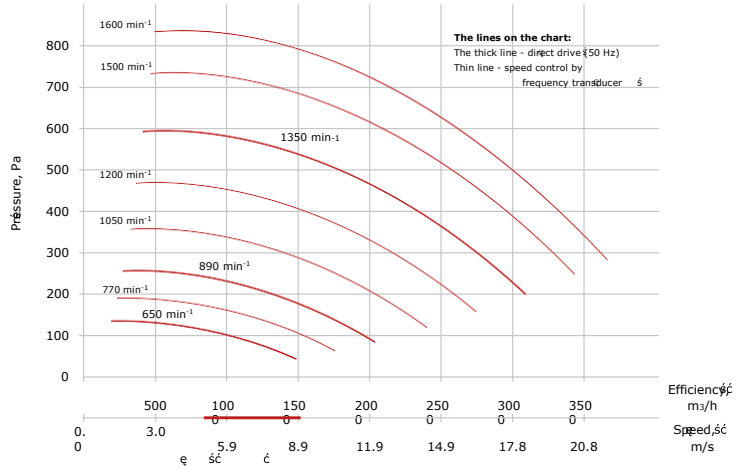


*- at housing position 270 + 315° - dimension + 40mm

** -Condensate exhaust Ø 12 mm

Centrifugal fans FRv 125 - 280
3.3.8. Type FRv 250/280

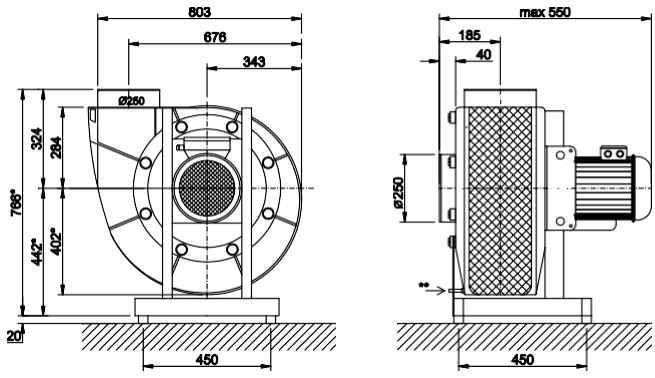
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
270	1620	1500	4	0.55	1.50	3100	590	30
178	1068	1000	6	0,18	1,00	2050	260	30
130	780	750	8	0.12	0.80	1480	140	30
---	---	1500/1000	4/6	0,55/0,18	1,75/0,66	3100	590	30
---	---	1500/750	4/8	0.50/0.10	1.00/0.42	3100	590	30
EX VERSION - EEXE II 2GT3								
---	---	1500	4	0.55	1.59	3100	590	35
---	---	1000	6	0,37	1,30	2050	260	35
---	---	750	8	0.18	0.78	1480	140	35



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	60	80	71	71	68	62	54	43	73	61
950	49	68	58	58	54	48	39	28	61	48
750	55	48	51	50	46	40	31	19	50	38



*- at housing position 270 + 315° - dimension + 40mm
** -Condensate exhaust Ø 12 mm

3.4. Roof fans FDv 110+ - 280

Roof fans of FDv type for conveying aggressive and explosive gases, steams and vapours with dust content < 5 mg/m3 and at max. 40°C, ambient temperature max. 40°C.

Injection-moulded polypropylene housing with guide unit as a single casting, with integrated maintenance-free labyrinth seal system. In the Ex version, additionally with a grease lock and self-sealing ring. Compliant with VDMA 24 169 and RL94/9/EC (ATEX). Condensate ferrule at the lowest point of the housing.

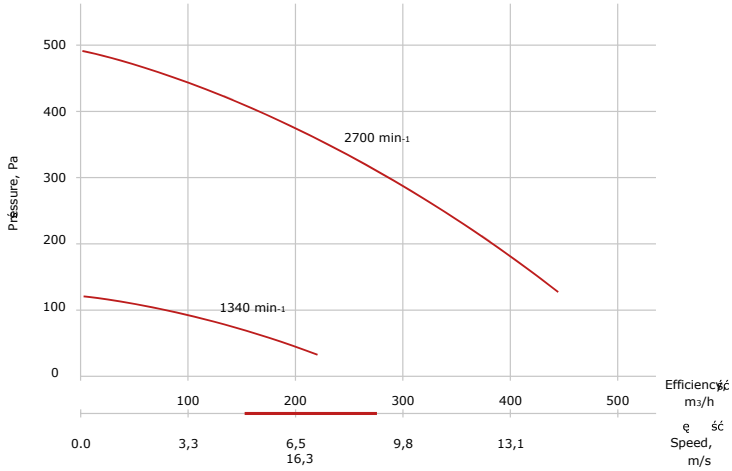
Drum rotor made of polypropylene, injection-moulded with dorsal blades to ensure a guaranteed vacuum on the shaft pass during operation.

Direct drive by means of a standard IEC-34 motor, in a gas-tight housing in relation to exhaust air, with temperature-resistant superstructures on the housing and rotor to prevent deformation of the mounting position even in case of failure. The housings cooling air led through separate inlet and outlet chambers for cooling air and to prevent uncontrolled circulation.

TECHNICAL DATA	
Blowing direction:	vertical
Drive:	standard motor 1 × 230 V or 3 × 230/400 V, 50 Hz EX version - only 3 × 230/400 V, 50 Hz IP55, thermal class F, with thermal contact
Protection class for the Ex version:	fan II 3G c IIB T3 X 04 ATEX D132 motor EExe II2GT3
Accessories: lockable maintenance	switch with auxiliary contact, installed and wired (only terminal box installed and wired in Ex version)
WARNING	For fans with parameters exceeding those included in the catalogue - offer on request

Roof fans FDv 110+ - 280
3.4.1. Type Fdv 110+

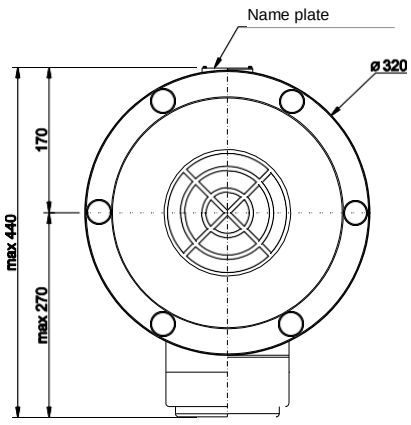
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
540	3240	3000	2	0.18	0.60	460	520	8.5
---	---	1500	4	0,06	0,35	230	150	8.5
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.18	0.48	460	520	10
---	---	1500	4	0,12	0,48	230	150	10

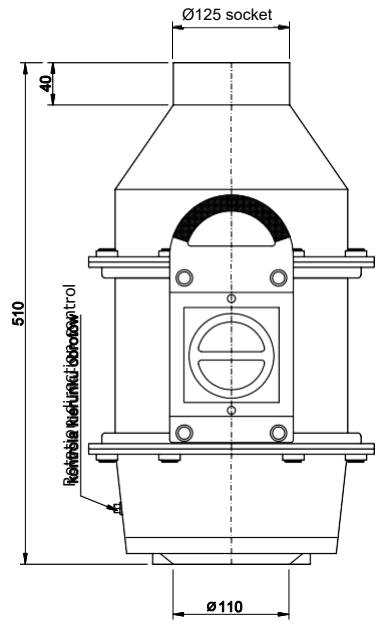


Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

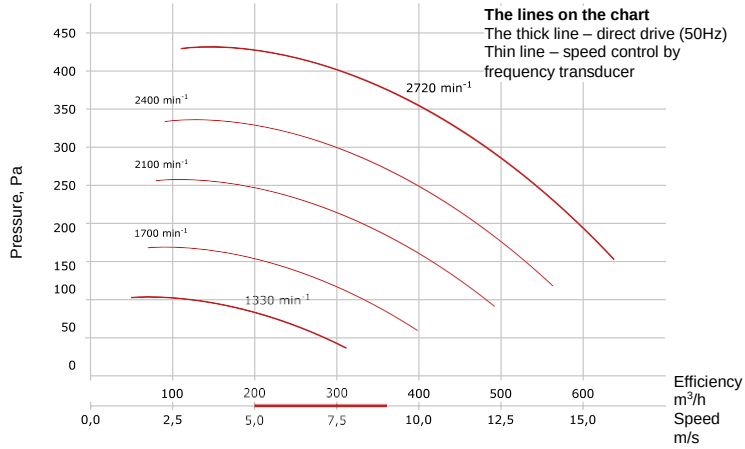
Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	33	41	79	46	43	37	29	18	71	54
1500	17	57	26	26	22	16	6	3	49	31





Roof fans FDv 110+ - 280
3.4.2. Type Fdv 125

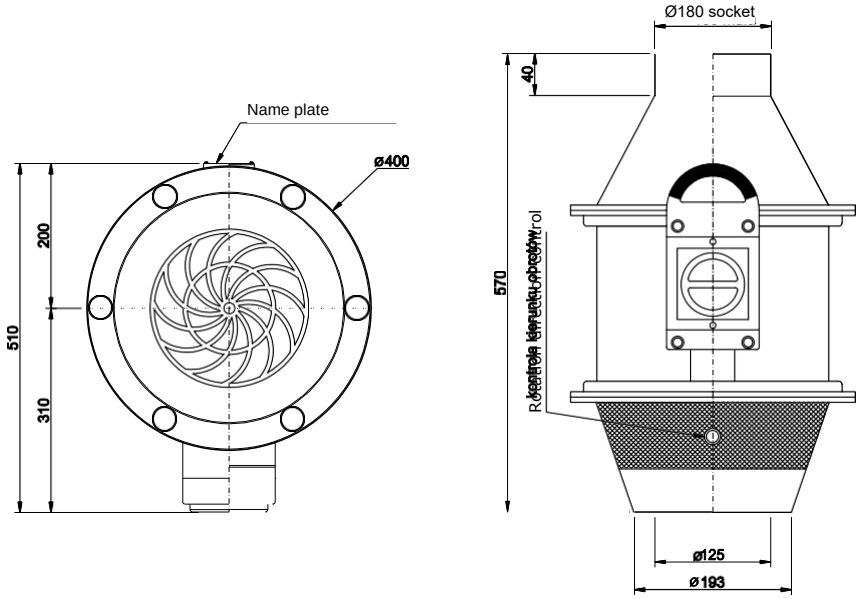
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m³/h	Pa	kg
rpm								
STANDARD VERSION								
544	3264	3000	2	0.12	0.50	640	430	10
266	1596	1500	4	0,06	0,26	310	110	10
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.18	0.48	640	430	13
---	---	1500	4	0,12	0,48	310	110	13



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

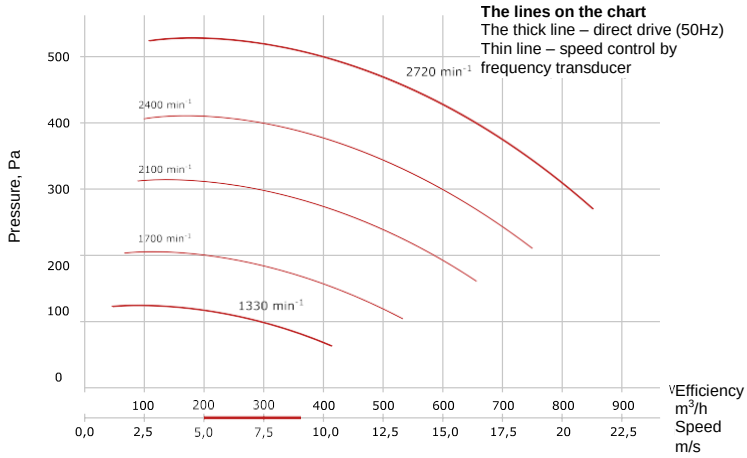
Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	51	59	70	64	62	57	49	39	64	54
1500	34	48	44	45	42	36	27	16	44	34



Roof fans FDv 110+ - 280
3.4.3. Type Fdv 125/140

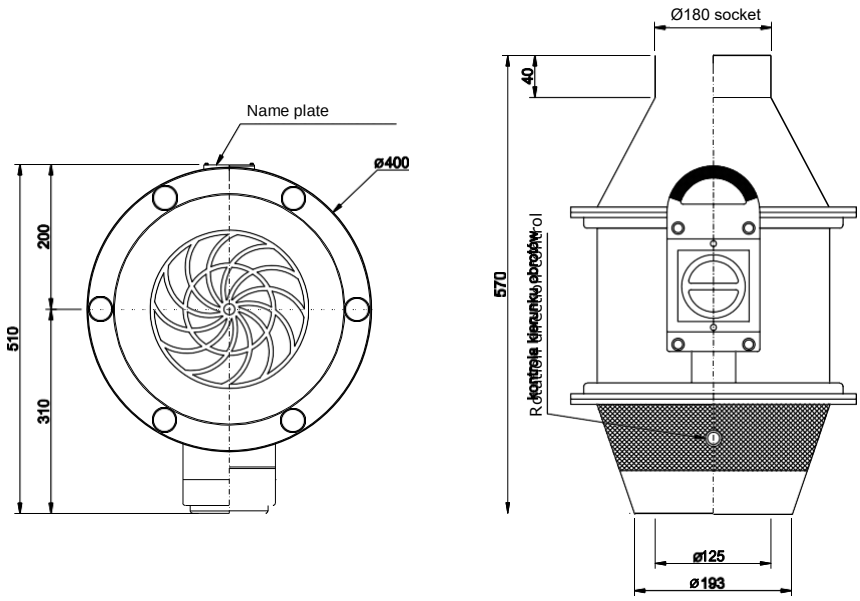
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
544	3264	3000	2	0.12	0.50	850	540	10
266	1596	1500	4	0,06	0,26	420	130	10
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.18	0.48	850	540	13
---	---	1500	4	0,12	0,48	420	130	13



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

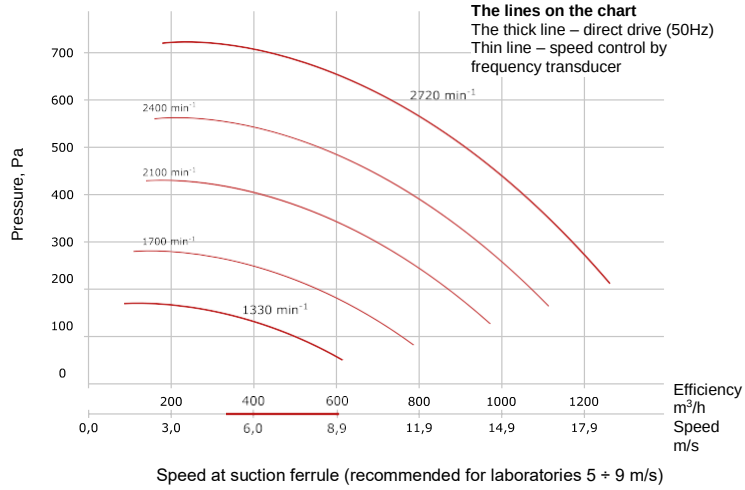
Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	53	60	71	64	61	55	46	34	64	55
1500	36	49	45	44	39	21	22	9	44	35



Roof fans FDv 110+ - 280
3.4.4. Type Fdv 160

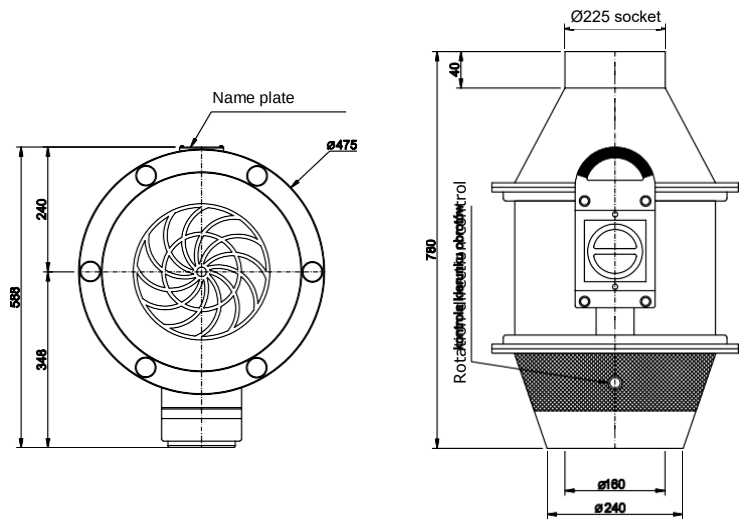
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m³/h	Pa	kg
rpm								
STANDARD VERSION								
544	3264	3000	2	0.37	0.94	1260	720	17
266	1596	1500	4	0,12	0,70	620	170	17
178	1068	1000	6	0.09	0.50	410	75	17
---	---	3000/1500	2/4	0,55/0,11	1,27/0,34	1260	720	17
---	---	1500/1000	4/6	0.18/0.051	0.80/0.38	620	170	17
---	---	1500/750	4/8	0,18/0,037	0,62/0,24	620	170	17
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.37	0.97	1260	720	21
---	---	1500	4	0,12	0,48	620	170	21



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

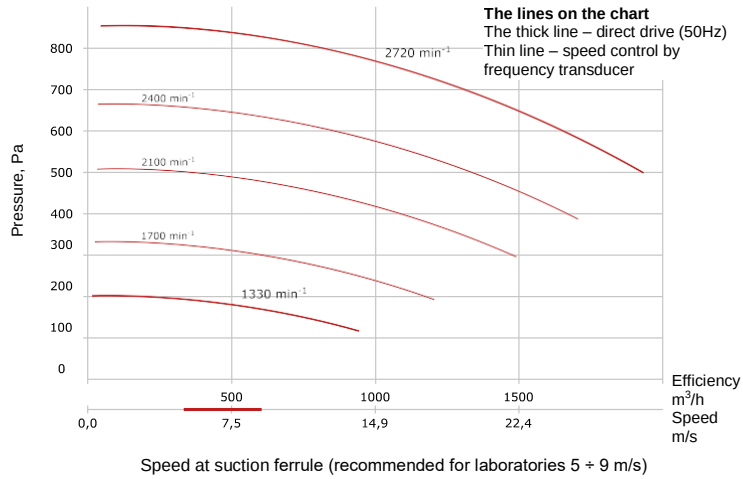
Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	58	66	77	71	69	64	57	48	71	61
1500	42	56	52	52	49	43	35	24	51	41



Roof fans FDv 110+ - 280
3.4.5. Type Fdv 160/180

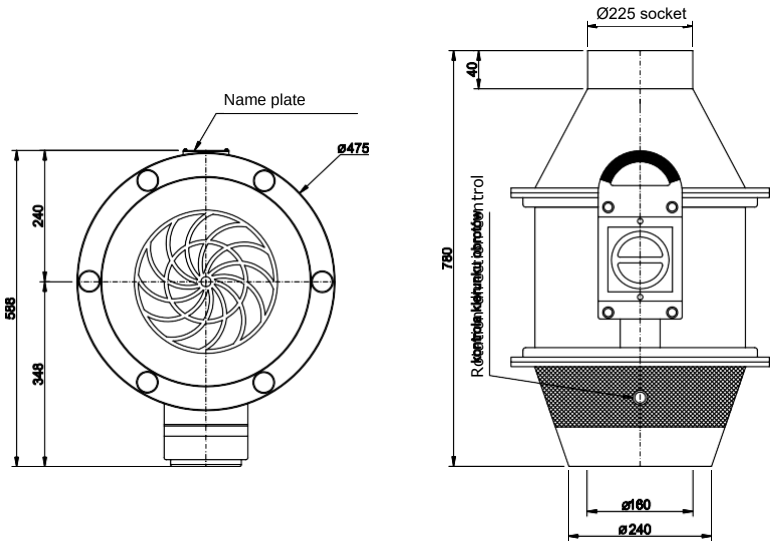
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
544	3264	3000	2	0.37	0.94	1930	860	17
266	1596	1500	4	0,12	0,70	880	200	17
178	1068	1000	6	0.09	0.50	630	90	17
---	---	3000/1500	2/4	0,55/0,11	1,27/0,34	1930	860	17
---	---	1500/1000	4/6	0.18/0.051	0.80/0.38	880	200	17
---	---	1500/750	4/8	0,18/0,037	0,62/0,24	880	200	17
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.37	0.97	1930	860	21
---	---	1500	4	0,12	0,48	880	200	21



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

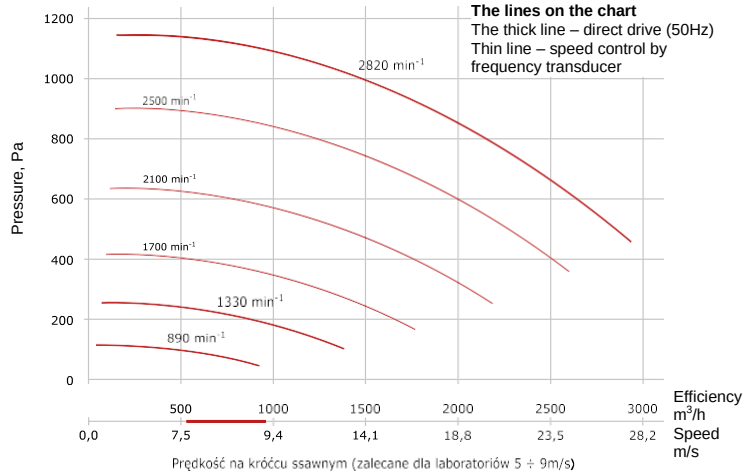
Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	61	68	78	72	69	62	53	42	72	63
1500	44	57	52	51	47	40	30	17	51	43



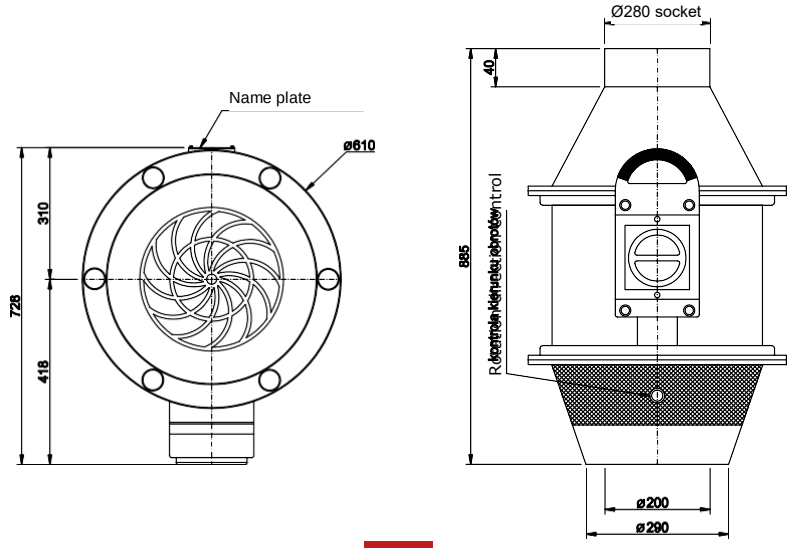
Roof fans FDv 110+ - 280
3.4.6. Type Fdv 200

Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m³/h	Pa	kg
rpm								
STANDARD VERSION								
564	3384	3000	2	0.75	1.80	2950	1140	21
266	1596	1500	4	0,25	0,86	1380	230	21
178	1068	1000	6	0.18	0.79	920	110	21
---	---	3000/1500	2/4	0,95/0,25	2,3/0,7	2950	1140	21
---	---	1500/1000	4/6	0.26/0.075	1.07/0.52	1380	230	21
---	---	1500/750	4/8	0,26/0,051	0,86/0,31	1380	230	21
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.75	1.76	2950	1140	25
---	---	1500	4	0,25	0,79	1380	230	25
---	---	1000	6	0.37	1.30	920	110	25



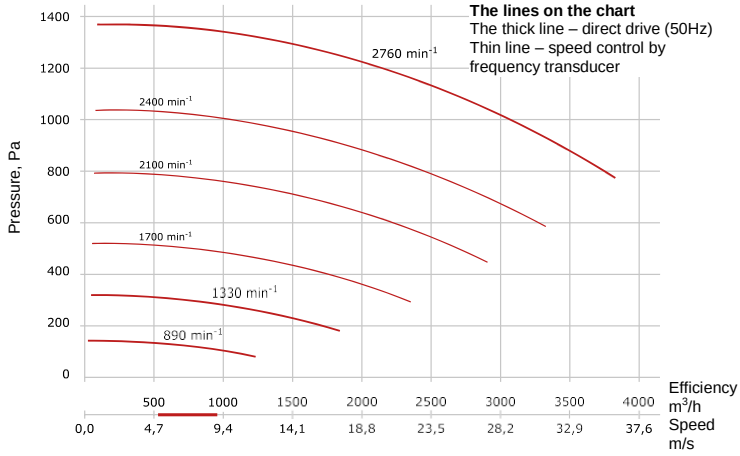
Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	65	73	84	78	76	71	64	54	78	68
1500	49	62	59	59	56	50	42	31	58	48



Roof fans FDv 110+ - 280
3.4.7. Type Fdv 200/225

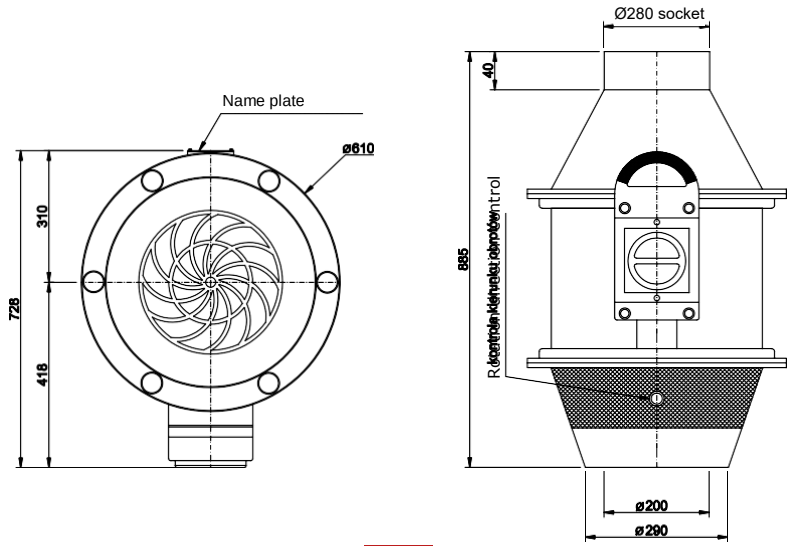
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
552	3312	3000	2	1.1	2.60	3850	1380	21
266	1596	1500	4	0,25	0,86	1830	310	21
178	1068	1000	6	0.18	0.79	1220	140	21
---	---	3000/1500	2/4	0,95/0,25	2,3/0,7	3850	1380	21
---	---	1500/1000	4/6	0.26/0.075	1.07/0.52	1830	310	21
---	---	1500/750	4/8	0,26/0,051	0,86/0,31	1830	310	21
EX VERSION - EEXE II 2GT3								
---	---	3000	2	1.1	2.60	3850	1380	25
---	---	1500	4	0,25	0,79	1830	310	25
---	---	1000	6	0.37	1.30	1220	140	25



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

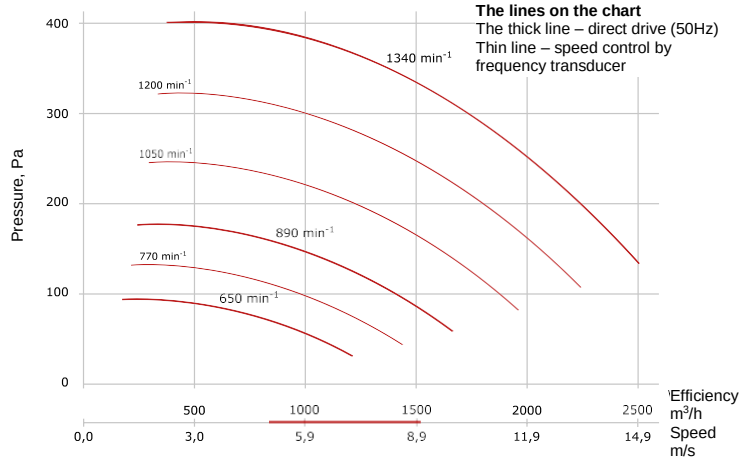
Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	68	75	85	78	75	69	60	48	79	70
1500	51	64	59	58	54	47	37	24	58	50



Roof fans FDv 110+ - 280
3.4.8. Type Fdv 250

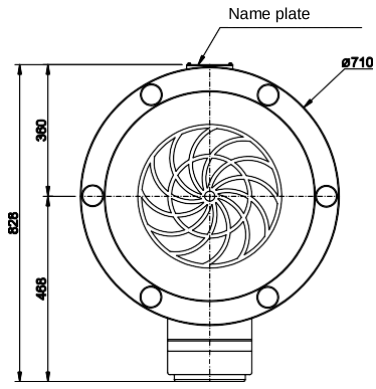
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m³/h	Pa	kg
rpm								
STANDARD VERSION								
268	1608	1500	4	0.37	1.20	2500	400	27
178	1068	1000	6	0.18	0.79	1660	175	27
130	780	750	8	0.12	0.65	1140	90	27
---	---	1500/1000	4/6	0,55/0,18	1,75/0,66	2500	400	27
---	---	1500/750	4/8	0.50/0.10	1.00/0.42	2500	400	27
EX VERSION - EEXE II 2GT3								
---	---	1500	4	0.37	1.08	2500	400	32
---	---	1000	6	0.37	1.30	1660	175	32
---	---	750	8	0.18	0.78	1140	90	32

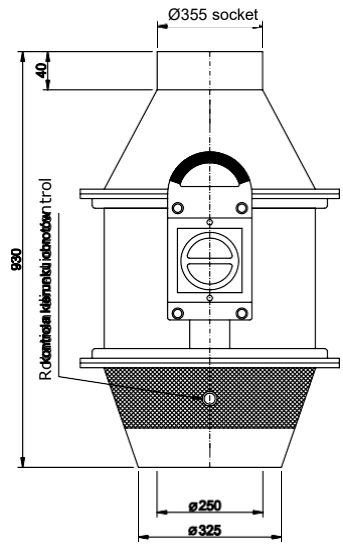


Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

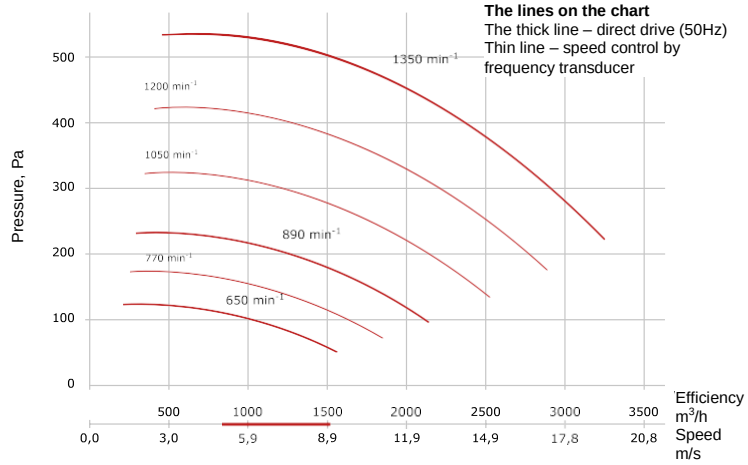
Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	55	69	65	66	63	57	49	37	65	55
950	44	58	53	53	49	43	34	22	52	42
750	45	44	46	46	42	35	26	14	44	34





Roof fans FDv 110+ - 280
3.4.9 Type FDv 250/280

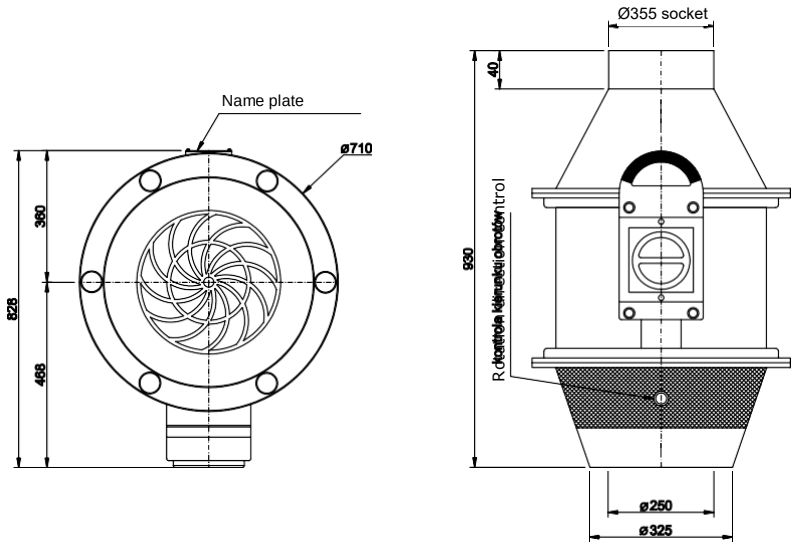
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
270	1620	1500	4	0.55	1.60	3250	540	27
178	1068	1000	6	0.18	0.79	2150	230	27
130	780	750	8	0.12	0.65	1580	125	27
---	---	1500/1000	4/6	0,55/0,18	1,75/0,66	3250	540	27
---	---	1500/750	4/8	0.50/0.10	1.00/0.42	3250	540	27
EX VERSION - EEXE II 2GT3								
---	---	1500	4	0.55	1.59	3250	540	32
---	---	1000	6	0.37	1.30	2150	230	32
---	---	750	8	0.18	0.78	1580	125	32



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	57	70	66	65	61	53	43	30	65	56
950	46	58	53	51	46	38	28	13	52	43
750	46	44	45	43	38	30	19	5	43	34



3.5. Roof fans FDvF 110+ - 280

Roof fans of FDvF type for conveying aggressive and explosive gases, steams and vapours with dust content < 5 mg/m3 and max. temperature of 40°C, ambient temperature max. 40°C.

Injection-moulded polypropylene housing with guide unit as a single casting, with integrated maintenance-free labyrinth seal system. In the Ex version, additionally with a grease lock and self-sealing ring. Compliant with VDMA 24 169 and RL94/9/EC (ATEX). Condensate ferrule at the lowest point of the housing.

Drum rotor made of polypropylene, injection-moulded with a dorsal blades to ensure a guaranteed vacuum on the shaft pass during operation.

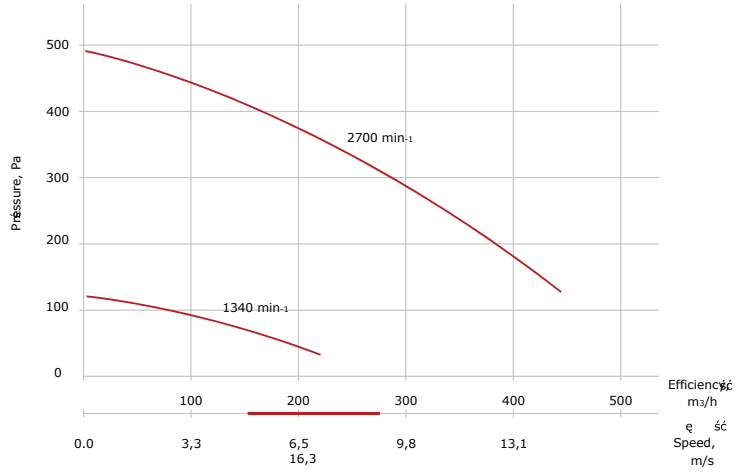
Direct drive by means of a standard IEC-34 motor, in a gas-tight housing in relation to exhaust air, with temperature-resistant superstructures on the housing and rotor to prevent deformation of the mounting position even in case of failure. The housings cooling air led through separate inlet and outlet chambers for cooling air and to prevent uncontrolled circulation.

The specially shaped plastic air discharge grid (IP20) ensures uniform, vertical air discharge.

TECHNICAL DATA	
Blowing direction:	vertical
Drive:	standard motor 1 × 230 V or 3 × 230/400 V, 50 Hz EX version - only 3 × 230/400 V, 50 Hz IP55, thermal class F, with thermal contact
Protection class for the Ex version:	fan II 3G c IIB T3 X 04 ATEX D132 motor EExe II2GT3
Accessories: lockable maintenance	switch with auxiliary contact, installed and wired (only terminal box installed and wired in Ex version)
WARNING	For fans with parameters exceeding those included in the catalogue - offer on request

Roof fans FDvF 110+ - 280
3.5.1. Type FDvF 110+

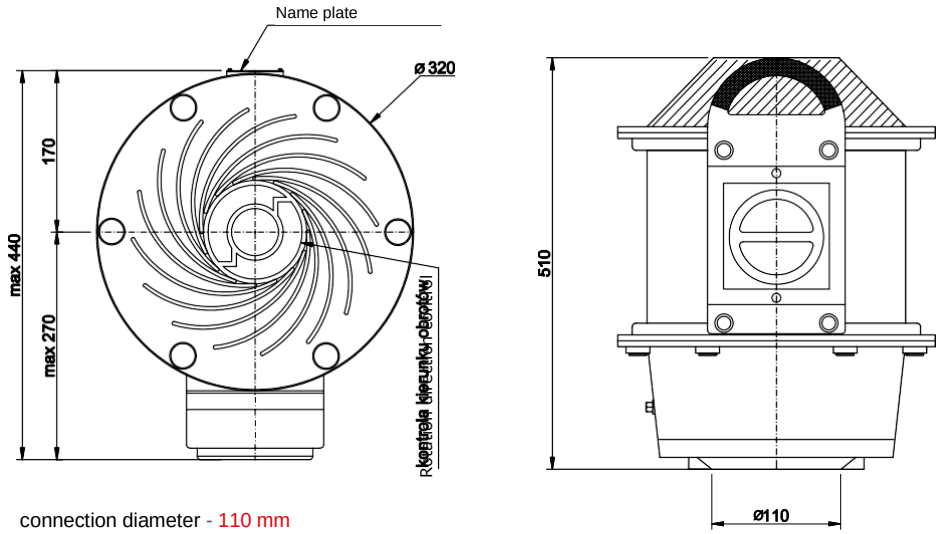
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
540	3240	3000	2	0.18	0.60	460	520	8.5
---	---	1500	4	0,06	0,35	230	150	8.5
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.18	0.48	460	520	10
---	---	1500	4	0,12	0,48	230	150	10



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	33	41	79	46	43	37	29	18	71	54
1500	17	57	26	26	22	16	6	3	49	31

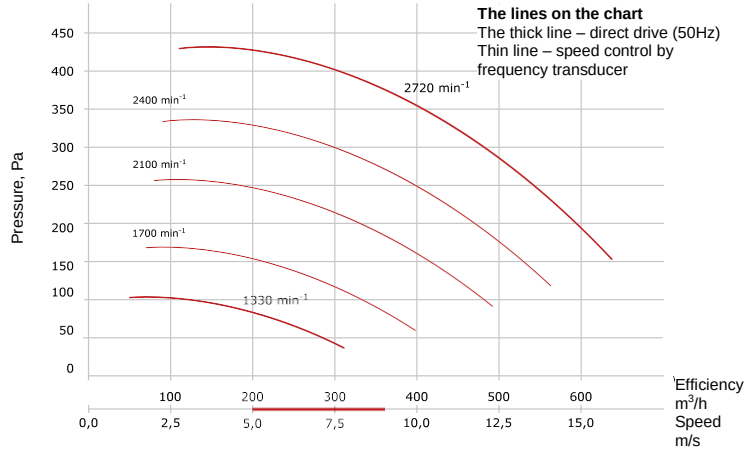


connection diameter - 110 mm
exhaust diameter - 125 mm

CHEMICALLY RESISTANT FANS

Roof fans FDvF 110+ - 280
3.5.2. Type FDvF 125

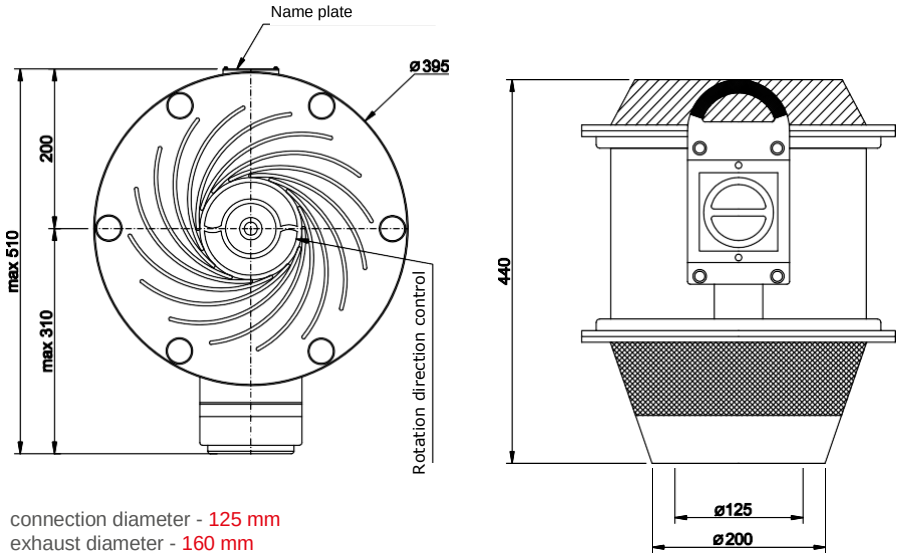
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
544	3264	3000	2	0.12	0.50	640	430	9
266	1596	1500	4	0,06	0,26	310	110	9
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.18	0.48	640	430	12
---	---	1500	4	0,12	0,48	310	110	12



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

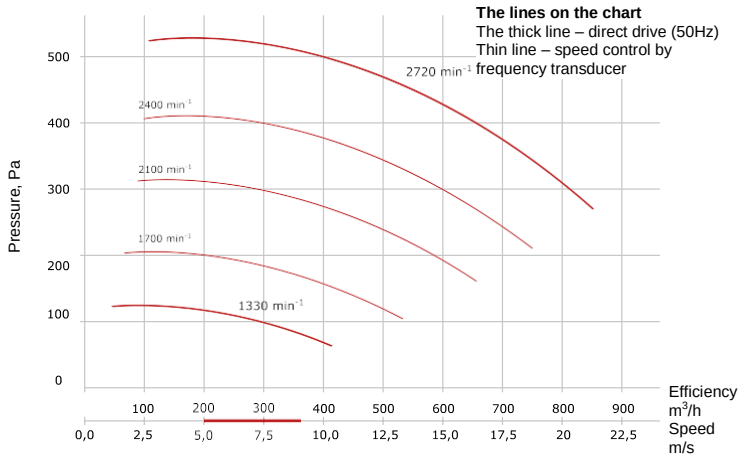
Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	51	59	70	64	62	57	49	39	64	54
1500	34	48	44	45	42	36	27	16	44	34



connection diameter - 125 mm
exhaust diameter - 160 mm

Roof fans FDvF 110+ - 280
3.5.3. Type FDvF 125/140

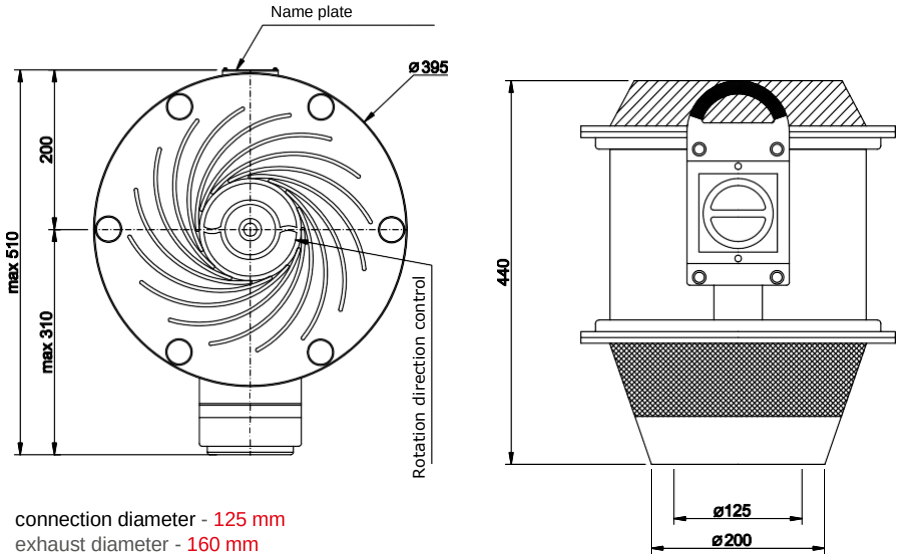
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
544	3264	3000	2	0.12	0.50	850	540	9
266	1596	1500	4	0,06	0,26	420	130	9
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.18	0.48	850	540	12
---	---	1500	4	0,12	0,48	420	130	12



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

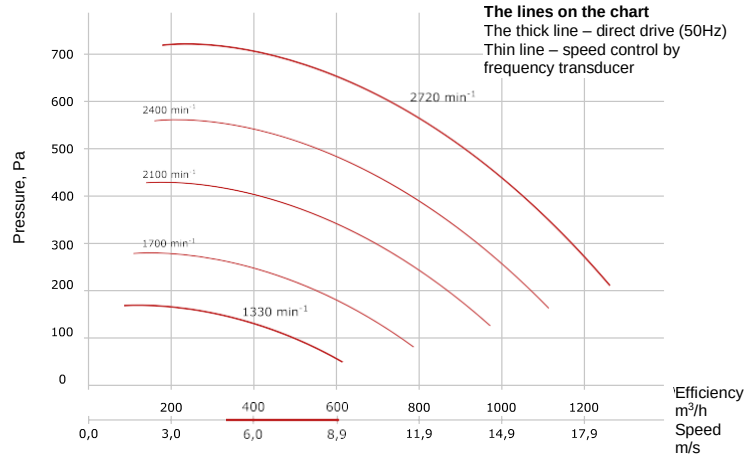
Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	53	60	71	64	61	55	46	34	64	55
1500	36	49	45	44	39	21	22	9	44	35



connection diameter - 125 mm
exhaust diameter - 160 mm

Roof fans FDvF 110+ - 280
3.5.4. Type FDvF 160

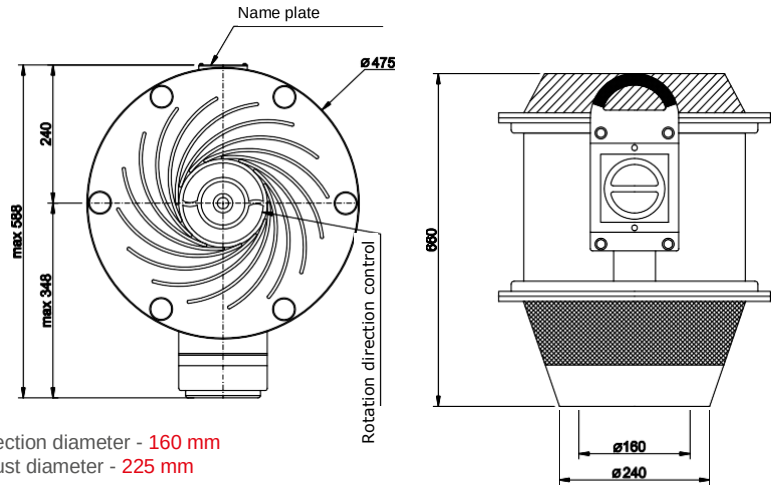
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m³/h	Pa	kg
rpm								
STANDARD VERSION								
544	3264	3000	2	0.37	0.94	1260	720	17
266	1596	1500	4	0,12	0,70	620	170	17
178	1068	1000	6	0.09	0.50	410	75	17
---	---	3000/1500	2/4	0,55/0,11	1,27/0,34	1260	720	17
---	---	1500/1000	4/6	0.18/0.051	0.80/0.38	620	170	17
---	---	1500/750	4/8	0,18/0,037	0,62/0,24	620	170	17
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.37	0.97	1260	720	21
---	---	1500	4	0,12	0,48	620	170	21



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

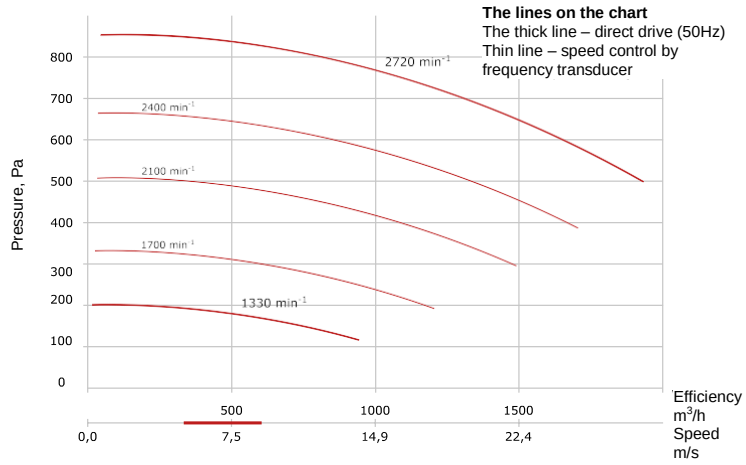
Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	58	66	77	71	69	64	57	48	71	61
1500	42	56	52	52	49	43	35	24	51	41



connection diameter - 160 mm
exhaust diameter - 225 mm

Roof fans FDvF 110+ - 280
3.5.5. Type FDvF 160/180

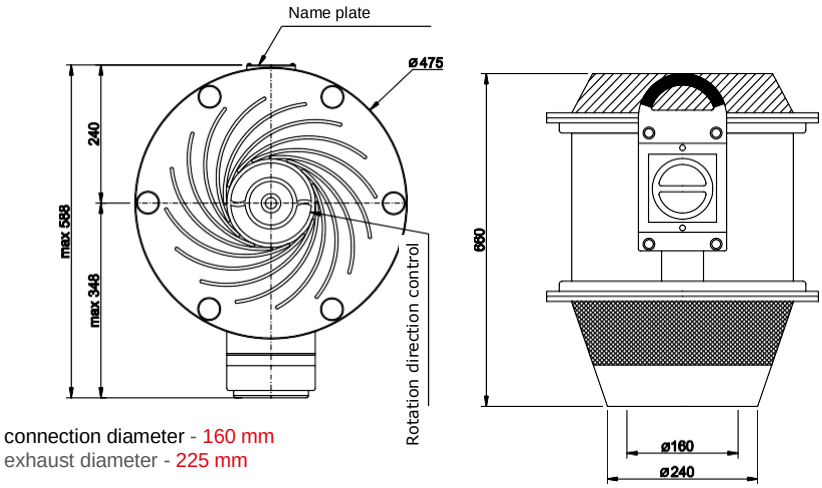
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
544	3264	3000	2	0.37	0.94	1930	860	17
266	1596	1500	4	0,12	0,70	880	200	17
178	1068	1000	6	0.09	0.50	630	90	17
---	---	3000/1500	2/4	0,55/0,11	1,27/0,34	1930	860	17
---	---	1500/1000	4/6	0.18/0.051	0.80/0.38	880	200	17
---	---	1500/750	4/8	0,18/0,037	0,62/0,24	880	200	17
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.37	0.97	1930	860	21
---	---	1500	4	0,12	0,48	880	200	21



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

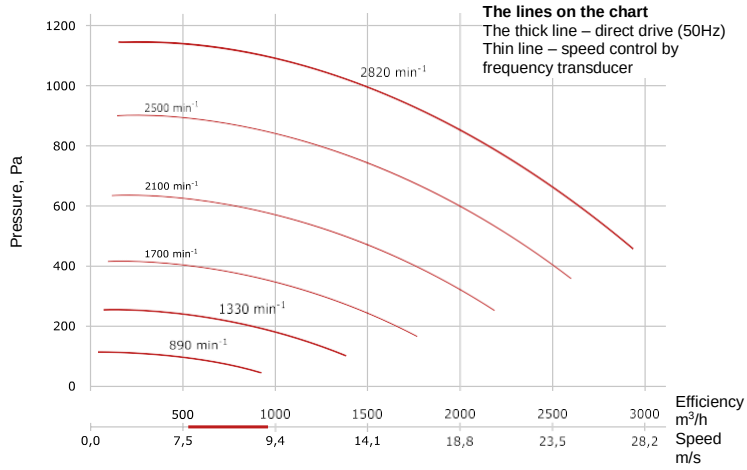
Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	61	68	78	72	69	62	53	42	72	63
1500	44	57	52	51	47	40	30	17	51	43



connection diameter - 160 mm
exhaust diameter - 225 mm

Roof fans FDvF 110+ - 280
3.5.6. Type FDvF 200

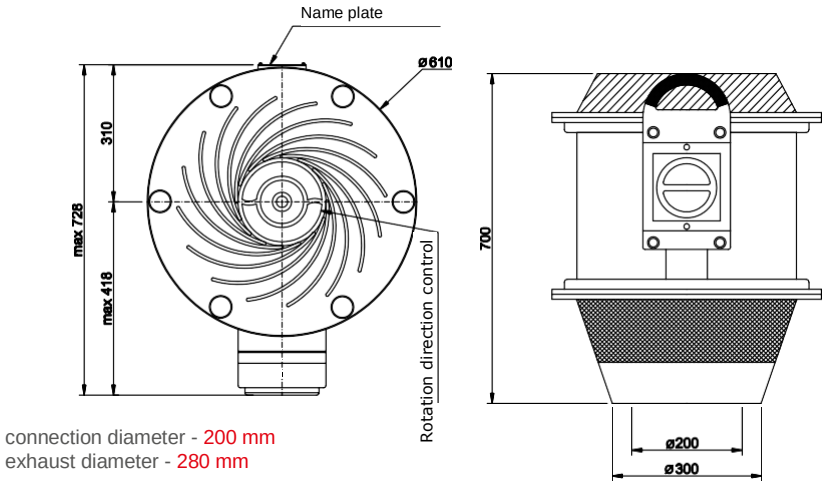
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m³/h	Pa	kg
rpm								
STANDARD VERSION								
564	3384	3000	2	0.75	1.80	2950	1140	20
266	1596	1500	4	0,25	0,86	1380	230	20
178	1068	1000	6	0.18	0.79	920	110	20
---	---	3000/1500	2/4	0,95/0,25	2,3/0,7	2950	1140	20
---	---	1500/1000	4/6	0.26/0.075	1.07/0.52	1380	230	20
---	---	1500/750	4/8	0,26/0,051	0,86/0,31	1380	230	20
EX VERSION - EEXE II 2GT3								
---	---	3000	2	0.75	1.76	2950	1140	24
---	---	1500	4	0,25	0,79	1380	230	24
---	---	1000	6	0.37	1.30	920	110	24



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

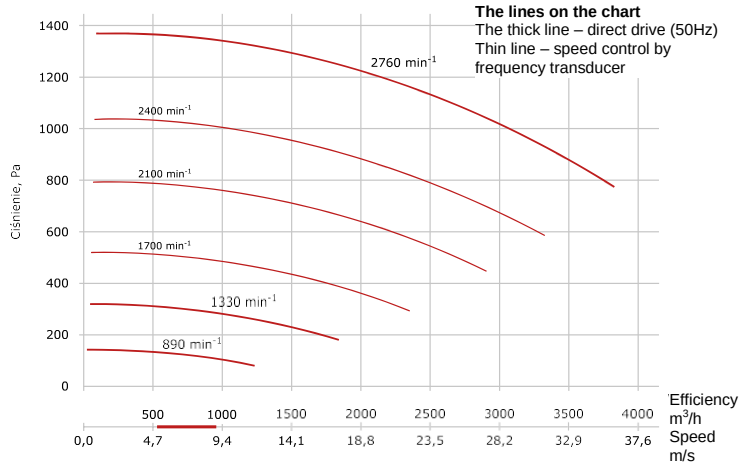
Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	65	73	84	78	76	71	64	54	78	68
1500	49	62	59	59	56	50	42	31	58	48



connection diameter - 200 mm
exhaust diameter - 280 mm

Roof fans FDvF 110+ - 280
3.5.7. Type FDvF 200/225

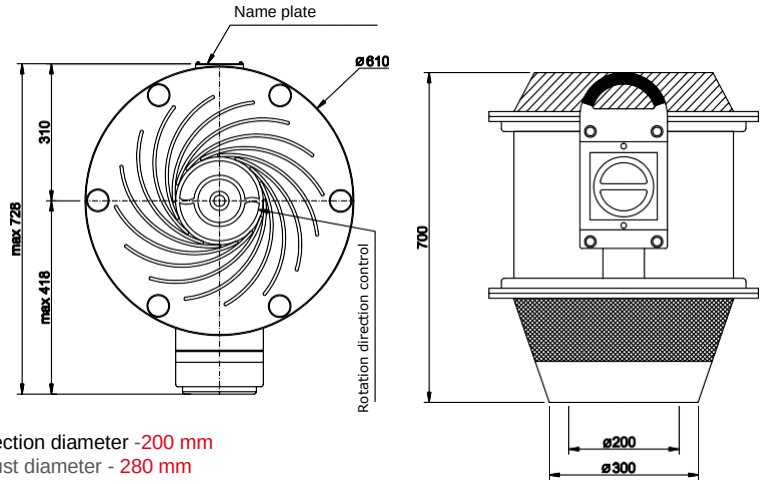
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
552	3312	3000	2	1.1	2.60	3850	1380	20
266	1596	1500	4	0,25	0,86	1830	310	20
178	1068	1000	6	0.18	0.79	1220	140	20
---	---	3000/1500	2/4	0,95/0,25	2,3/0,7	3850	1380	20
---	---	1500/1000	4/6	0.26/0.075	1.07/0.52	1830	310	20
---	---	1500/750	4/8	0,26/0,051	0,86/0,31	1830	310	20
EX VERSION - EEXE II 2GT3								
---	---	3000	2	1.1	2.60	3850	1380	24
---	---	1500	4	0,25	0,79	1830	310	24
---	---	1000	6	0.37	1.30	1220	140	24



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

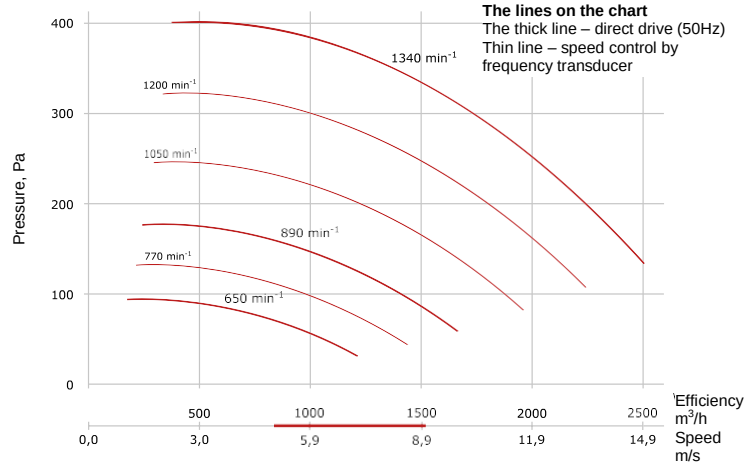
Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
3000	68	75	85	78	75	69	60	48	79	70
1500	51	64	59	58	54	47	37	24	58	50



connection diameter -200 mm
exhaust diameter - 280 mm

Roof fans FDvF 110+ - 280
3.5.8. Type FDvF 250

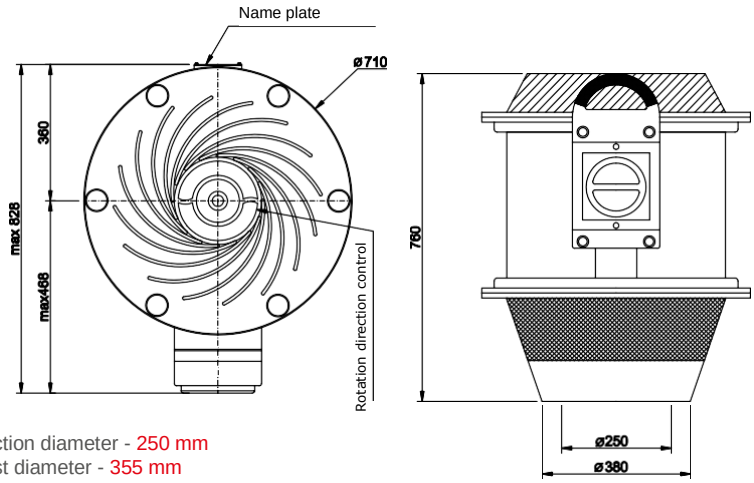
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
268	1608	1500	4	0.37	1.20	2500	400	26
178	1068	1000	6	0.18	0.79	1660	175	26
130	780	750	8	0.12	0.65	1140	90	26
---	---	1500/1000	4/6	0,55/0,18	1,75/0,66	2500	400	26
---	---	1500/750	4/8	0.50/0.10	1.00/0.42	2500	400	26
EX VERSION - EEXE II 2GT3								
---	---	1500	4	0.37	1.08	2500	400	31
---	---	1000	6	0.37	1.30	1660	175	31
---	---	750	8	0.18	0.78	1140	90	31



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

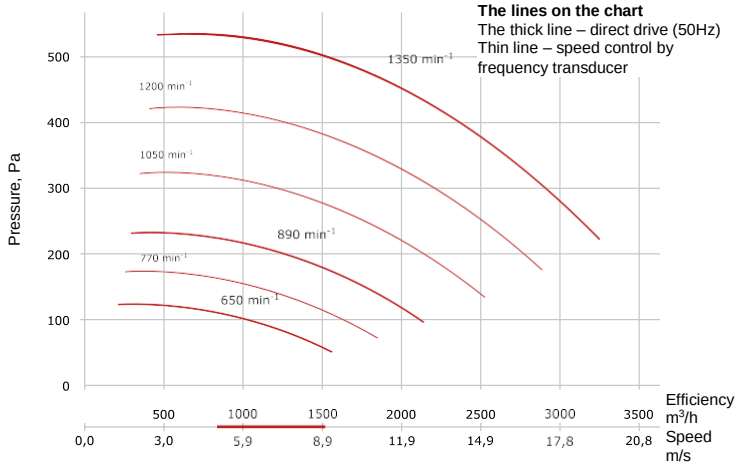
Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	55	69	65	66	63	57	49	37	65	55
950	44	58	53	53	49	43	34	22	52	42
750	45	44	46	46	42	35	26	14	44	34



connection diameter - 250 mm
exhaust diameter - 355 mm

Roof fans FDvF 110+ - 280
3.5.9. Type FDvF 250/280

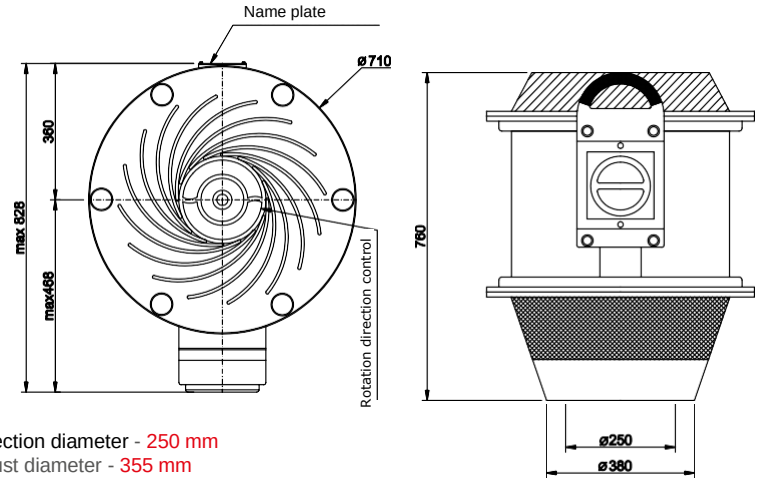
Rotation speed range		Rotation speed at 50 Hz	Number of poles	Nominal power	Rated current at 400 V/50 Hz or 230 V/50 Hz	Maximum efficiency	Maximum pressure	Weight
10 Hz	60 Hz	rpm	---	kW	A	m^3/h	Pa	kg
rpm								
STANDARD VERSION								
270	1620	1500	4	0.55	1.60	3250	540	26
178	1068	1000	6	0.18	0.79	2150	230	26
130	780	750	8	0.12	0.65	1580	125	26
---	---	1500/1000	4/6	0,55/0,18	1,75/0,66	3250	540	26
---	---	1500/750	4/8	0.50/0.10	1.00/0.42	3250	540	26
EX VERSION - EEXE II 2GT3								
---	---	1500	4	0.55	1.59	3250	540	31
---	---	1000	6	0.37	1.30	2150	230	31
---	---	750	8	0.18	0.78	1580	125	31



Speed at suction ferrule (recommended for laboratories 5 ÷ 9 m/s)

Acoustic characteristics

Rotation speed	Frequency, Hz								Lw(dB)	Lw(dBA)
rpm	dB								dB	dB
	63	125	250	500	1000	2000	4000	8000	---	---
1500	57	70	66	65	61	53	43	30	65	56
950	46	58	53	51	46	38	28	13	52	43
750	46	44	45	43	38	30	19	5	43	34



connection diameter - 250 mm
exhaust diameter - 355 mm

NOTES

CHEMOWENT system manufacturer

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