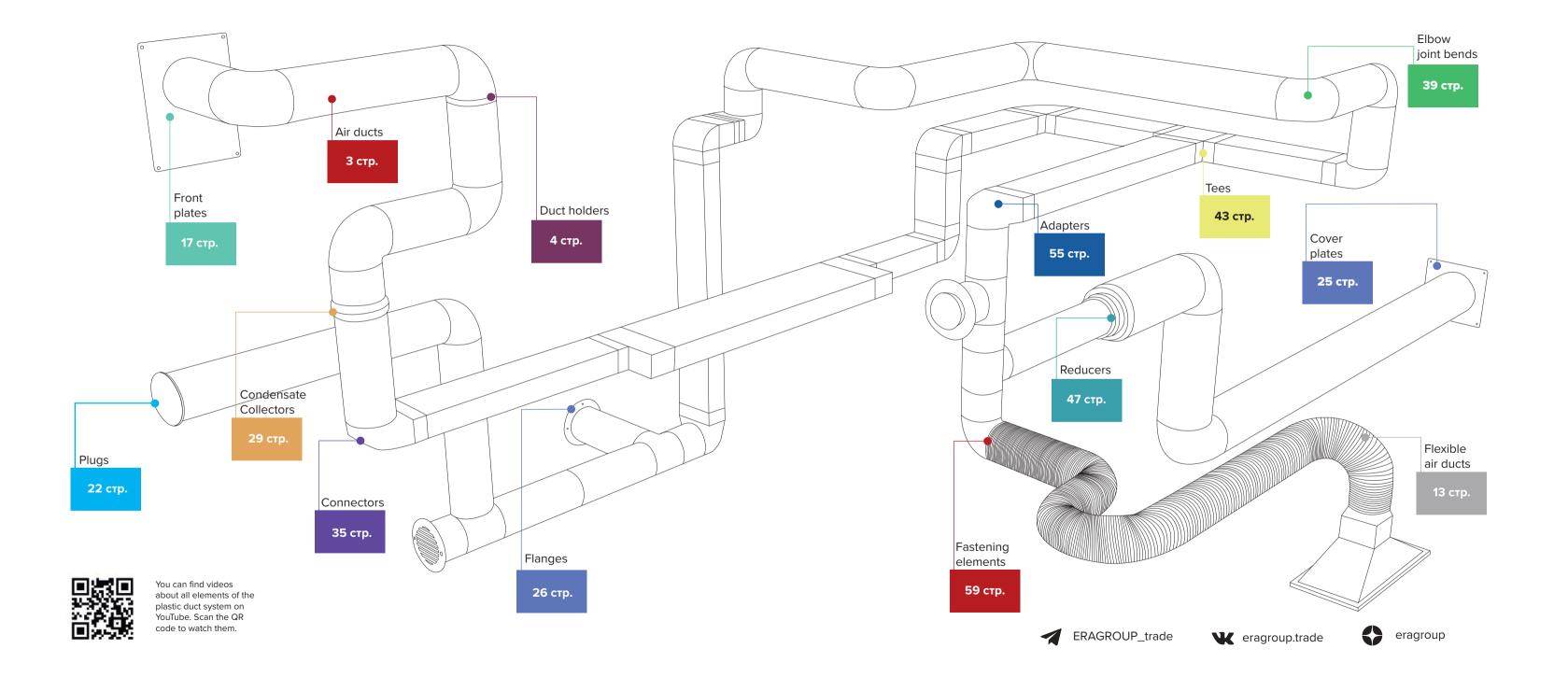
HOW TO ASSEMBLE

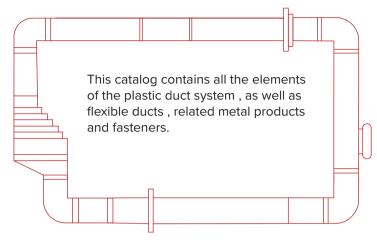


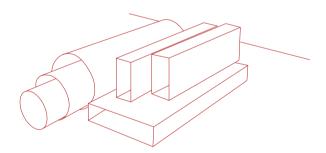




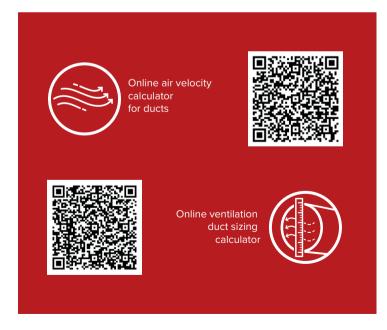


Plastic duct systems (PDS) are applied for ventilation of houses, flats, offices and public spaces.





Main elements PDS — round and flat air ducts. For their installation there are shaped elements: connectors, end platforms, reducers, adapters and holders. This catalog will help you to understand their assortment and assemble the system correctly.



How to find the right products?

The package of each element has an article number that consists of its dimensions and name.

Let's take the example of a round air duct VP:



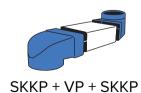
To select a shaped element for this duct, look for a product with the number 10 or 100 in the article.

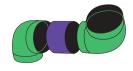
For example: a 100SKP Connector, a 10KKP Elbow joint, a 100PTP Front plate

This rule does not apply to SKFP and TPF adapters. Round air ducts are not connected to them in a straight line.

Most fittings are not directly mounted to each other.

For connections over a short distance, use an FC connector or a duct section of the required length.



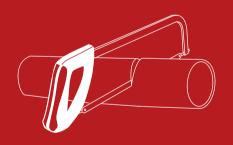


KKP + FC + KKP

Use LM mounting tape or sealant to seal the joints.



If you need to shorten the duct to the required length, you should use a fine-toothed metal or wood hacksaw. A small circular saw is also suitable.



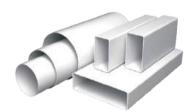
All dimensions in the drawings are given in millimeters.



AIR DUCTS

Intended for organization of supply and exhaust ventilation systems.



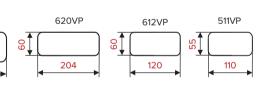


Item code

round and flat.



To ensure high airflow capacity and a low noise level, it is better to prefer round ducts.





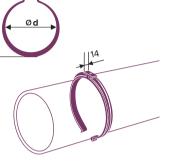
If it is necessary to ventilate as discreetly as possible, choose flat ducts. For example, they can be hidden behind a stretch ceiling.

d	Α
100	500
100	1000
100	1500
100	2000
125	500
125	1000
125	1500
125	2000
150	500
150	1000
150	1500
150	2000
160	500
160	1000
160	1500
160	2000
	100 100 100 100 125 125 125 125 150 150 150 160 160

Item code	а	b	Α
511VP	110	55	500
511VP1	110	55	1000
511VP1,5	110	55	1500
511VP2	110	55	2000
612VP	120	60	500
612VP1	120	60	1000
612VP1,5	120	60	1500
612VP2	120	60	2000
620VP	204	60	500
620VP1	204	60	1000
620VP1,5	204	60	1500
620VP2	204	60	2000
922VP	220	90	500
922VP1	220	90	1000
922VP1,5	220	90	1500
922VP2	220	90	2000

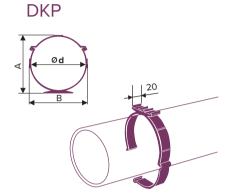
DUCT HOLDERS For fixing ducts of the appropriate diameter/section to the mounting surface

RDH



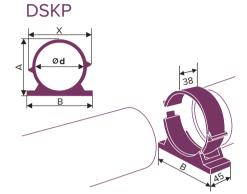
RDH Round ducts holders. Thanks to their flexibility, they allow the diameter to be increased or decreased by approximately 5 mm.

Item code	d	Α
10RDH	90	108
12,5RDH	120	140
15,16RDH	140	160



Round Duct Holders. They provide reliable mounting for round air ducts to a surface.

Item code	d	Α	В
10DKP	103	113	109
12,5DKP	128	137	134
15DKP	154	163	159
16DKP	163	172	169



Round Duct Connector Holders. They are equipped with sealing elements for a secure fit. Quick installation.

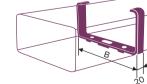
Item code	d	Α	В	X
10DSKP	104	119	138	122
12,5DSKP	129	144	163	147
16DSKP	164	179	198	182

DKP



Flat Duct Holders. Secure fixation and easy installation.

Item code	Α	В
511DKP	55	110
612DKP	60	120
620DKP	60	204

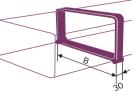


	Item code	Α	Į E
	511LRDH	65	11
	612LRDH	70	12
	620LRDH	70	2
	922LRDH	100	22
*			

LRDH

b «	The Rectangular Duct Holder with a latch is designed for mounting ducts to walls, ceilings, and other flat mounting surfaces.
В	

Item code	Α	В	Х	b	а	
511LRDH	65	116	70	110	55	
612LRDH	70	126	70	120	60	
620LRDH	70	210	130	204	60	
922LRDH	100	226	146	220	90	



Corrosion resistance

Smooth inner surface

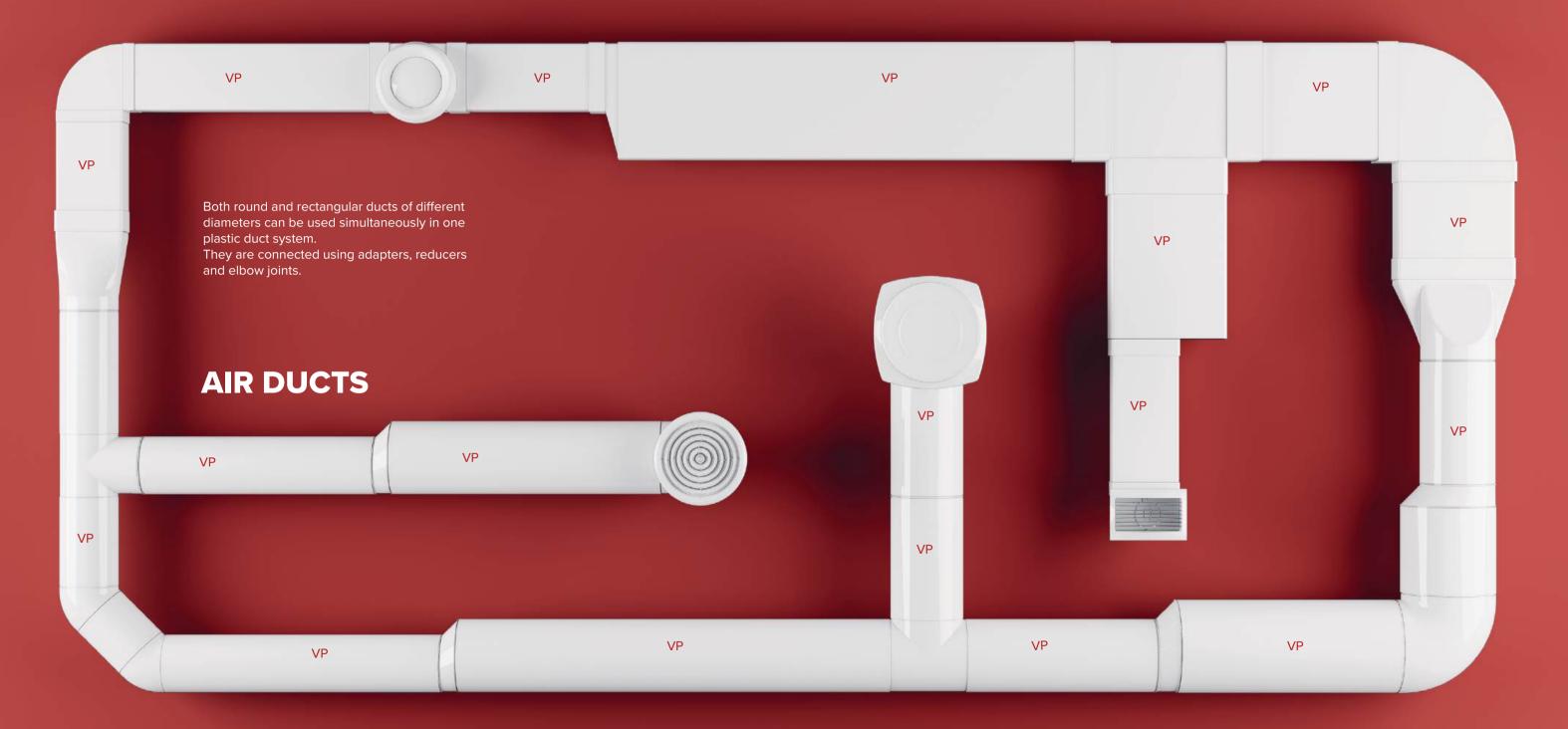
922VP

Easy

Operation at temperatures installation from -40 to +60°C

Material: PVC





922 PLASTIC DUCT SYSTEM



DUCT HOLDERS

Flexible design RDH allows to use it with air ducts 5 mm larger or smaller than the nominal diameter.

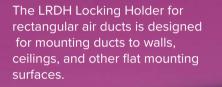
RDH

ДКП

DSKP Holders-connectors fix two ducts to the surface at the same time.

Special design enables quick installation.

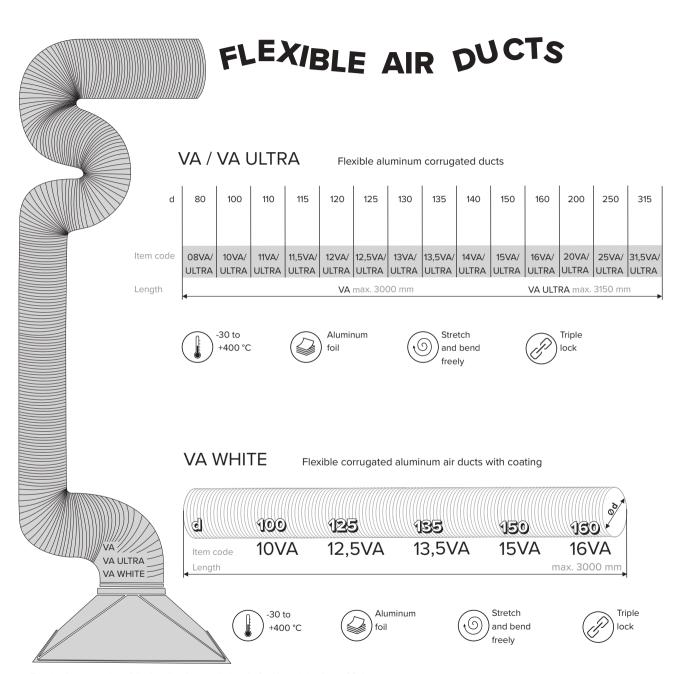
ДСКП



LRDH

12

DKP Holders are suitable for surface mounting of round or rectangular ducts.



For simple connection of the hood to the ventilation shaft with a minimal set of fittings.

For routing the ventilation duct in hard-to-reach places at different angles









temperature



AVA Ducts are

corrosion-resistant



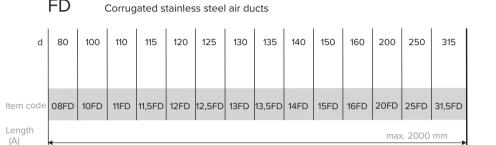


Fire Resistance



Transformation











AVA Flexible Air Ducts PVC

d	80	90	10	110	115	120	125	130	135	140	150	160	200	250	315
Item code	AV8VA	A09VA	A10VA	A11VA	A11,5VA	A12VA	A12,5VA	A13VA	A13,5VA	A14VA	A15VA	A16VA	A20VA	A25VA	A31,5VA
Length (A)														max. 30()0 mm

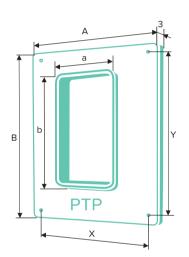
-30 to Aluminum Stretch and bend freely lock



PLASTIC FRONT PLATES

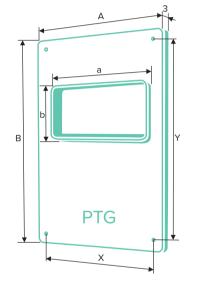
To ventilation ducts and for decorating openings

Plastic Front Plates for flat air ducts



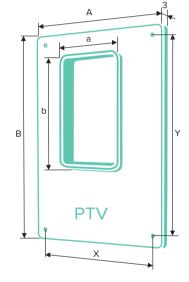
PTP

Item code	а	b	Α	В	Х	Υ
511PTP	55	110	150	150	135	135
620PTP	60	204	180	250	165	235



PTG

Item code	a	b	Α	В	Х	Υ
511PTG	110	55	180	250	165	235
620PTG	120	60	180	250	165	235



PTV

Item code	а	b	Α	В	Х	
511PTV	110	55	180	250	165	2
620PTV	120	60	180	250	165	2



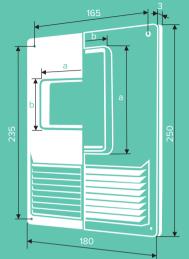


Plastic Front Plates with a grille for flat ducts

Horizontal outlet type

PTGR

	а	
511PTGR	110	55
612PTGR	120	60



PTVR

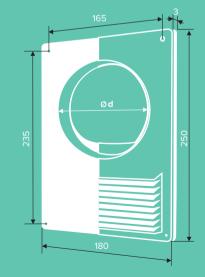
Item code		
511PTVR	110	55
612PTVR	120	60

lastic front plates for round ducts

Without arille

PTP

Item code	
100PTP	10
110PTP	11
120PTP	12
125PTP	12
130PTP	13
150PTP	15



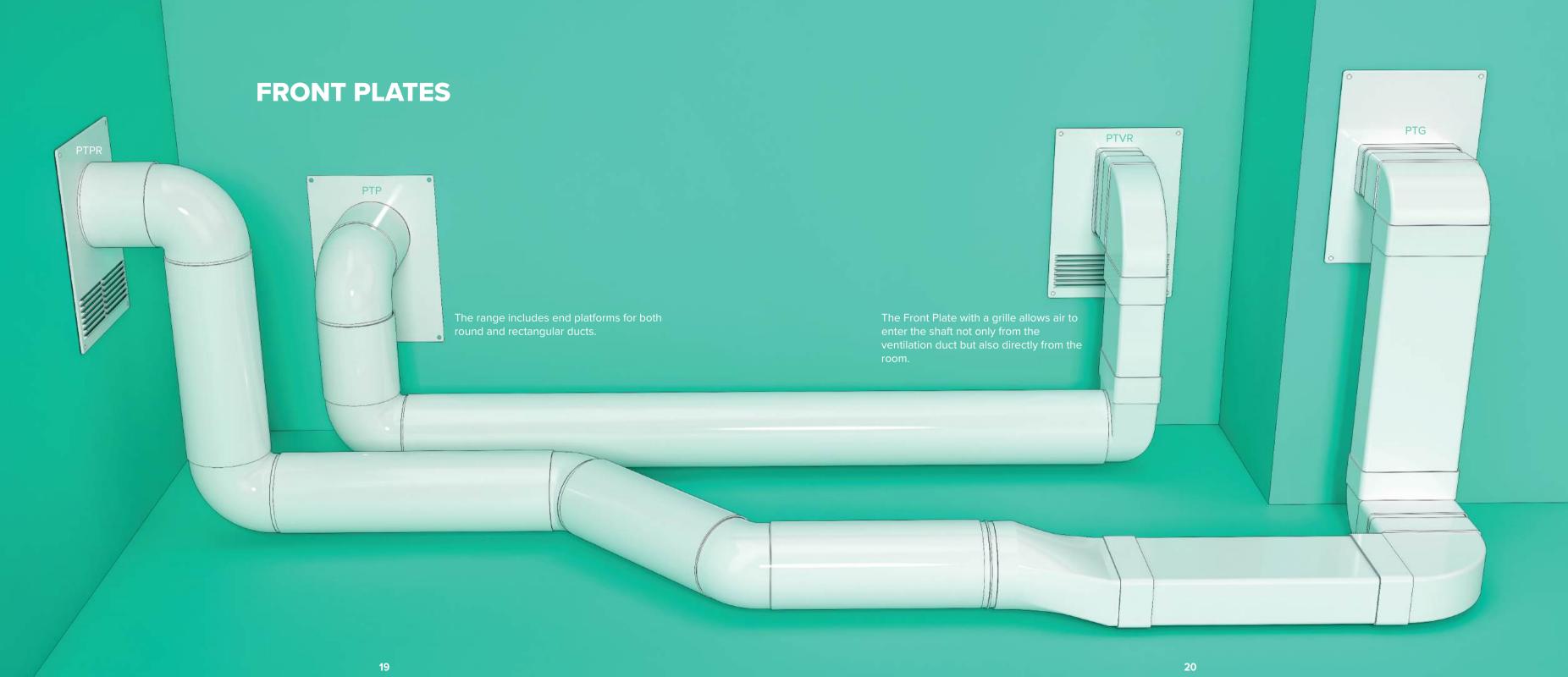
With a grill

PTPR

100PTPR	100
110PTPR	110
120PTPR	120
125PTPR	125
130PTPR	130
150PTPR	150

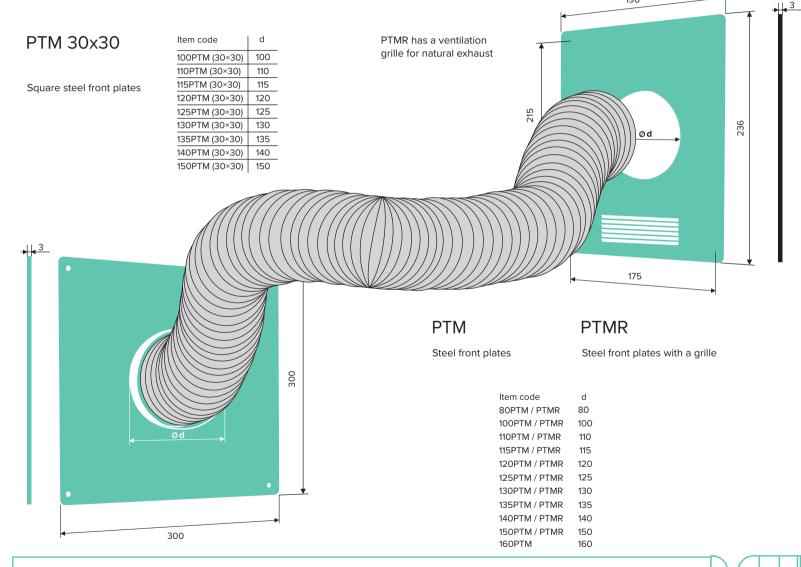
The plates are equipped with a deflector to prevent backflow

Ventilation Grille with a flange Item code 1825RU10F 1825RU12,5F 125 Has a net for protection against insects The detachable design makes maintenance easier The plugs conceal



METAL FRONT PLATES

Designed for mounting round ducts to a channel



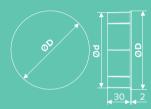
21

The material is thin sheet steel coated with polymer enamel.

PLUGS

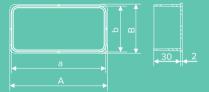
Minimize air exchange loss during staged ventilation duct installation and simplifies duct inspection

PDP



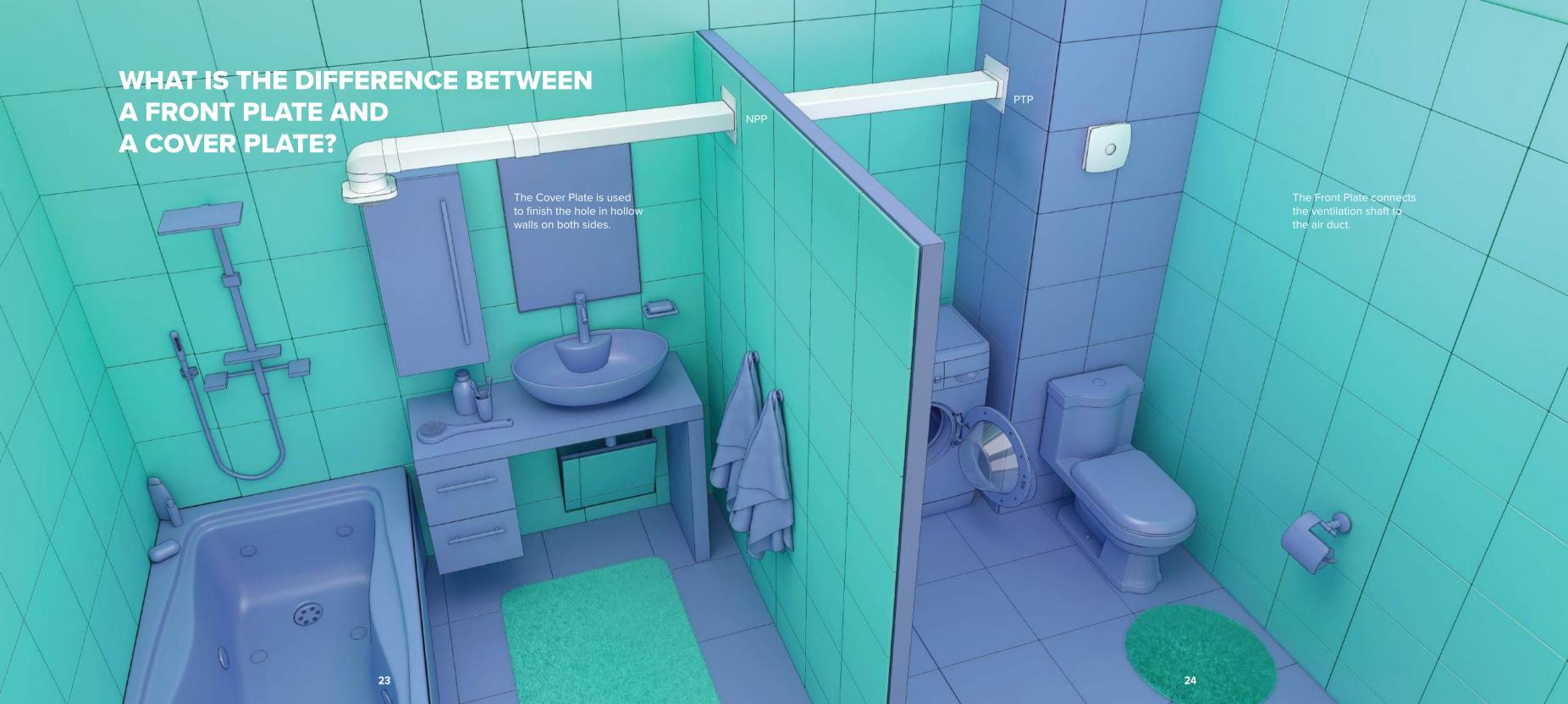
This series features models suitable for both round and rectangular ductwork. The Plugs are inserted into a ventilation duct of the corresponding size.

	D	
10PDP	104	100
12,5PDP	129	125
15PDP	154	150
16PDP	164	160



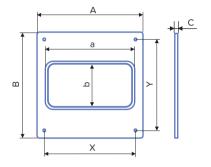
Item code	А			
511PDP	110	106	55	51
612PDP	120		60	
620PDP	204	200	60	56
922PDP	220	216	90	86





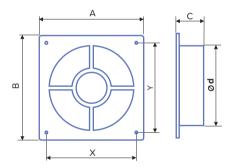
COVER PLATES

Used for decorative finishing of mounting holes.



NPP Cover Plates for flat air ducts

Item code	а	b	Α	В	X	Υ	С
511NPP	111	56	154	154	140	140	2
612NPP	120	60	150	150	135	135	3
620NPP	204	60	264	119	250	105	3

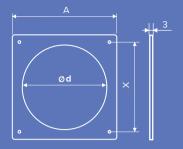




Cover Plates for round air ducts with a flange

Item code	d	Α	В	С	X	Υ
1111F10	100	113	113	28,5	85	85
1616F12	125	164	164	34	130	130
1/12/15/12	125	120	200	20	110	100

F, NKP, and NPP Cover Plates can be used with VP ducts.



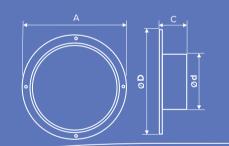
NKP

Cover Plates for round air ducts

tem code		Α	Х
IONKP	105	150	135
12,5NKP	130	170	156
I5NKP	152	204	187
I6NKP	165	205	190

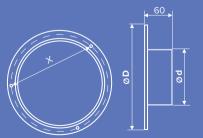
FLANGES

For connecting ducts of the appropriate diameter



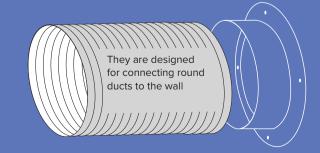
Plastic Flanges

Item code	d	D	А	С
10F	100	135	125	55
12,5F	125	160	150	55
15F	150	195	170	55
16F	160	195	185	55
20F	200	235	225	55



Steel flanges with polymer enamel coating

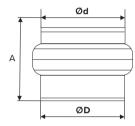
Item code	d	D	Х
10FM	100	128	114
12FM	120	148	134
12,5FM	125	153	139
15 EM	150	179	164





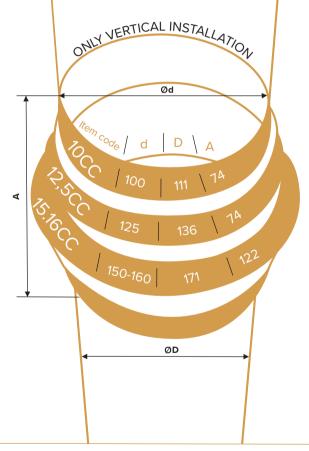
CONDENSATE COLLECTORS

CC



The Collector 15.16SS has an original diameter of 150 mm.

To adapt it for a 160 mm duct, one segment in the upper part must be cut off. For collecting excess moisture from air ducts



The collector connects two VP air ducts.

29

CONNECTORS

For Air Ducts' connecting

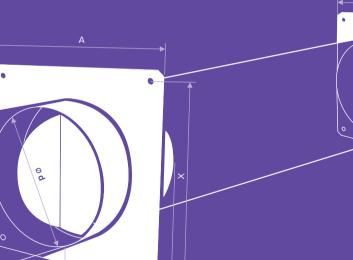
SKNPO

Round Duct Connectors with a front plate and a backdraft damper.

SKNP

Round Duct Connectors with a front plate.

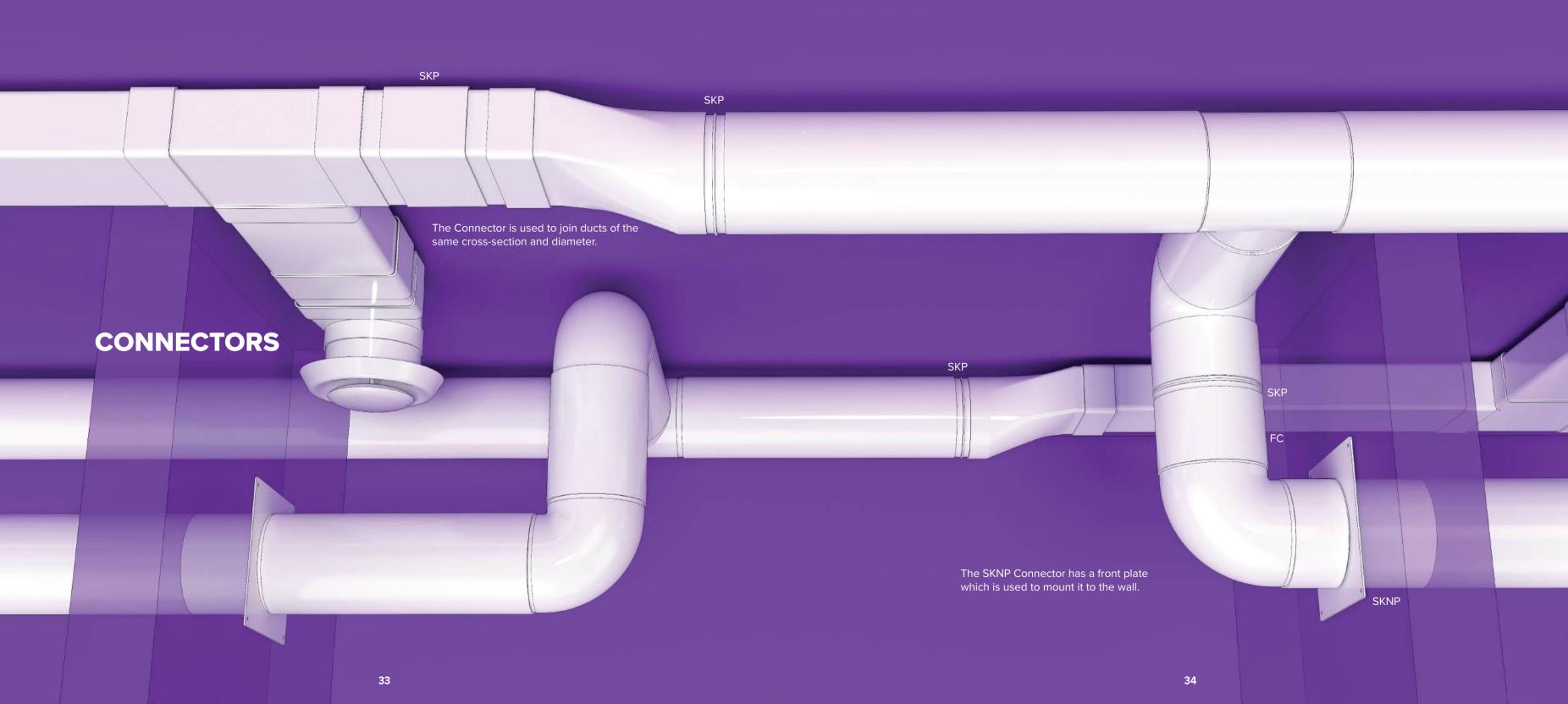






Item code	d	А	С	×
10SKNP / SKNPO	100	150	62	135
12,5SKNP / SKNPO	125	165	62	150
15SKNP / SKNPO	150	190	62	175





For connecting ducts and elbows of the same cross-section/diameter.

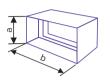
CONDENSATE COLLECTORS

Connect Ducts or fittings at a minimum distance.





SKP



Flat Duct Connectors

Item code	а	b	Α
511SKP	55	110	65
612SKP	60	120	70
620SKP	60	204	70
922SKP	90	220	70

SK

Flexible Duct Connectors

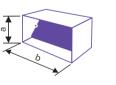
Item code	d	А
10SK	100	80
12,5SK	125	80



For connecting flexible ducts of the appropriate diameter

SKPO





Flat Duct Connectors with a backdraft damper

tem code	а	b	Α
511SKPO	55	110	65
S12SKPO	60	120	70
20SKPO	60	204	70
22SKPO	90	220	70

SKP



Round Duct Connectors

Item code	d	А
10SKP	100	62
12,5SKP	125	62
15SKP	150	62
16SKP	160	62

SKPO



Round Duct Connectors with a backdraft damper

Item code		А
10SKPO	100	62
12,5SKPO	125	62
15SKPO	150	62
1CC//DO	160	62

FC connects adapters, elbows, reducers, and other fittings.

FC





Fitting Connectors

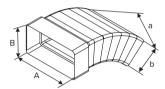
tem code			b	Α
I0FC	100			70
12,5FC	125			70
I5FC	150			70
I6FC	160			70
511FC		110	55	70
512FC		120	60	70
520FC		204	60	70



ELBOW JOINT BENDS

For connecting ducts of the appropriate cross-section at various angles

KRPV



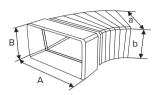
Adjustable Flat Vertical Elbows from 3° to 49°

Item code	Α	В	а	b
511KRPV	110	55	106	51
612KRPV	120	60	116	56
620KRPV	204	60	200	56



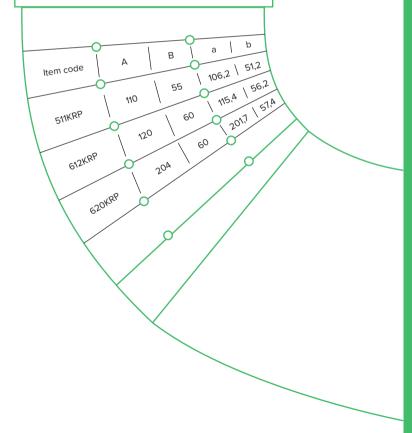


KRP

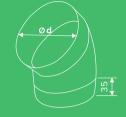


Adjustable Flat Horizontal Elbows from 3° to 48°

Depending on the selected angle, one side of the elbow is cut to fit.



KKP 45°



Item code	
10KKP45°	100
12,5KKP45°	125
15KKP45°	150
16KKP45°	160

 511KVP
 110
 55
 89,2

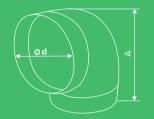
 612KVP
 120
 60
 102

 620KVP
 204
 60
 102

 922KVP
 220
 90
 132

Round Elbows 45°

KKP



Item code		А
10KKP	100	143
12,5KKP	125	168,
15KKP	150	195,
16KKP	160	204

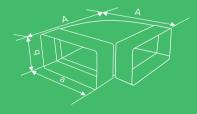
Round Elbows 90°

KVP



Flat Vertical Elbows 90°

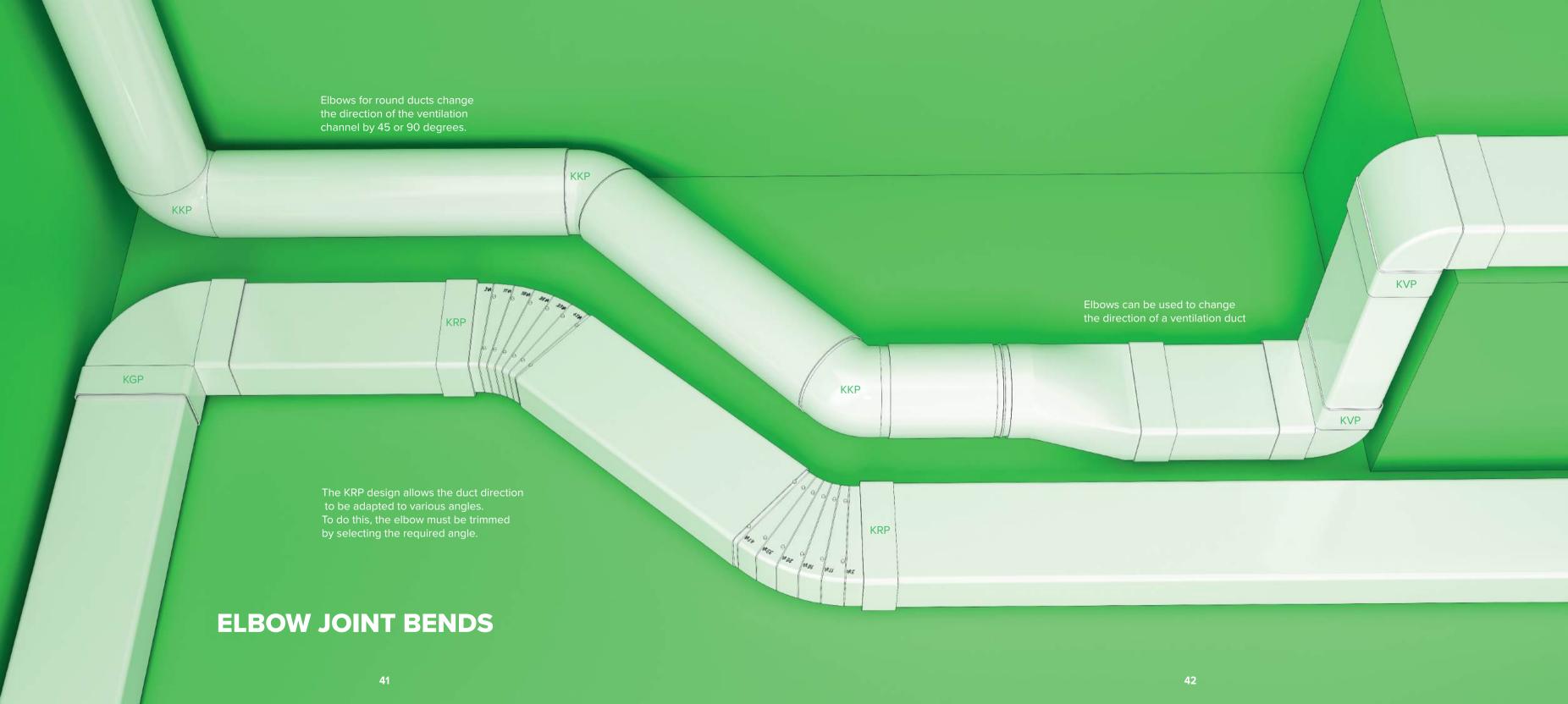
KGP



Item code			
511KGP	110	55	145
612KGP	120	60	162
620KGP	204	60	246
922KGP	220	90	262

Flat Horizonta Elbows 90°

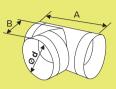
40



TEES

For organizing complex ventilation and exhaust systems

TM



Steel T-shaped Tees with polymer enamel coating

 Item code
 d
 A
 B

 10TM
 100
 200
 98

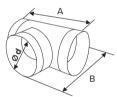
 12TM
 120
 215
 110

 12,5TM
 125
 220
 110

 15TM
 150
 246
 123

Tees are used to connect three ducts of the same type and cross-section.



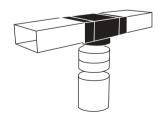


Round T-shaped Tees

Item code	d	Α	В
10TP	100	186	143,5
12,5TP	125	212	169
15TP	150	234	192,5
16TP	160	244	203

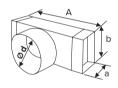


The TFP is required for cases when a fan, grille, or anemostat needs to be connected to a flat duct.



Using the TFP, a round duct can be connected to a flat channel with the SKP Connector.



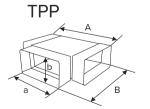


Flat Tees with outlets for flanged air distribution devices

Item code	d	а	b	Α
511TF10P	100	55	110	171
612TF10P	100	60	120	174
620TF10P	100	60	204	174
620TF12,5P	125	60	204	199
620TF16P	160	60	204	234
922TF15P	150	90	220	238







Flat T-shaped Tees

Item code	а	b	Α	В
511TPP	110	55	173	143
612TPP	120	60	194	159
620TPP	204	60	278	243
922TPP	220	90	294	259

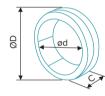
TEES The TFP can be used to connect a round duct to a flat channel. This requires an SKP or SKPO connector. Tees connect three ducts of the same TPP type and cross-section. TFP The Tees connect three ducts of the same type and cross-section. TP TFP Using the TFP, fans, anemostats, or grilles are connected to the duct. 45 46

REDUCERS

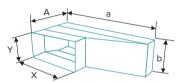
For connecting ducts of the same type but different cross-sections

Central Round Duct Reducer

RPP Eccentric Flat Duct Connectors



Item code	d	D	С
1012,5RP	100	125	40
1212,5RP	120	125	55



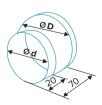
Item code	а	b	X	Υ	Α
511RP620P	204	60	110	55	94
612RP511P	120	60	110	55	97
612RP20P	204	60	120	60	62
922RP620P	204	60	220	90	94

RP Central Round Duct Reducer

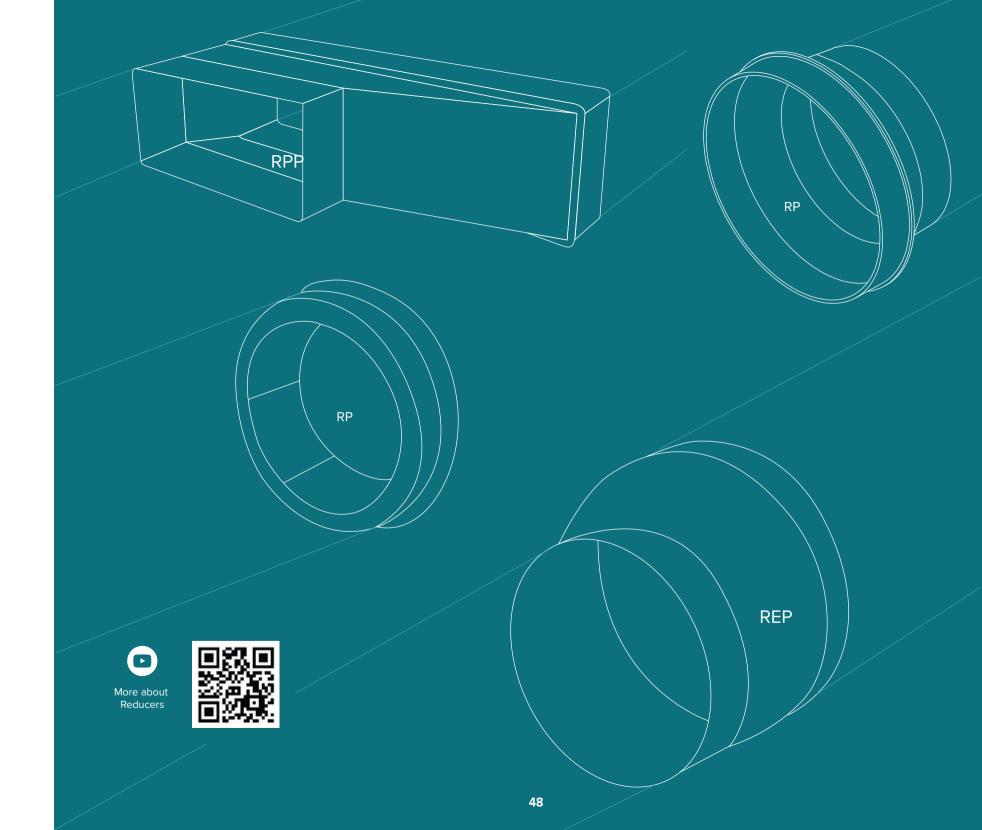
Item code	d	D	D1	С
1012RP	120	125	100	60
12,515RP	150,5	155	125	90

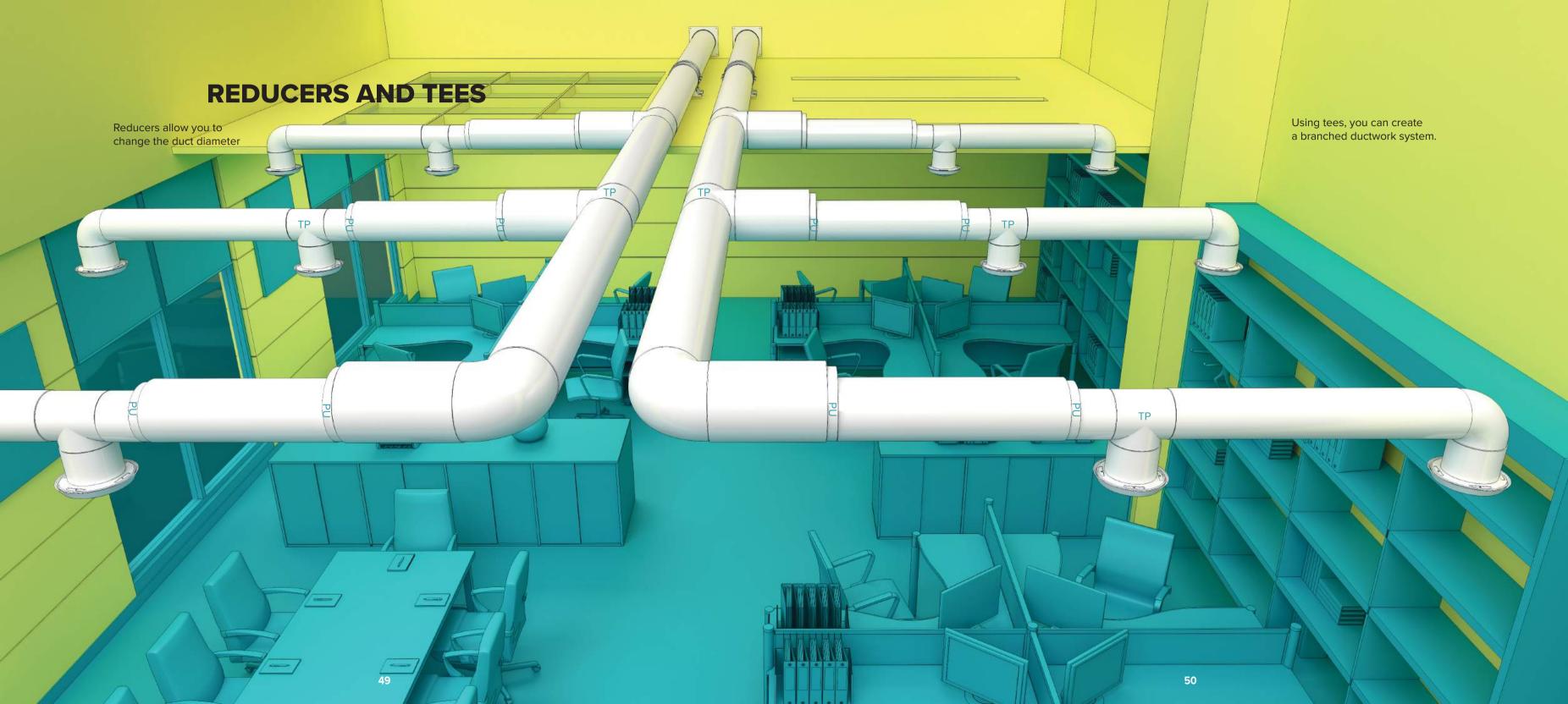
REP

Eccentric Round Duct Reducer



item code	u	
0810REP	80	100
1011REP	100	110
12,515REP	125	150
1015REP	100	150
12,515REP	125	150
12,516REP	125	160





UNIVERSAL REDUCERS

PU

17 IS TRIMMED TO

CREATE

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П

D

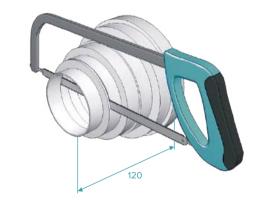
REDUCER

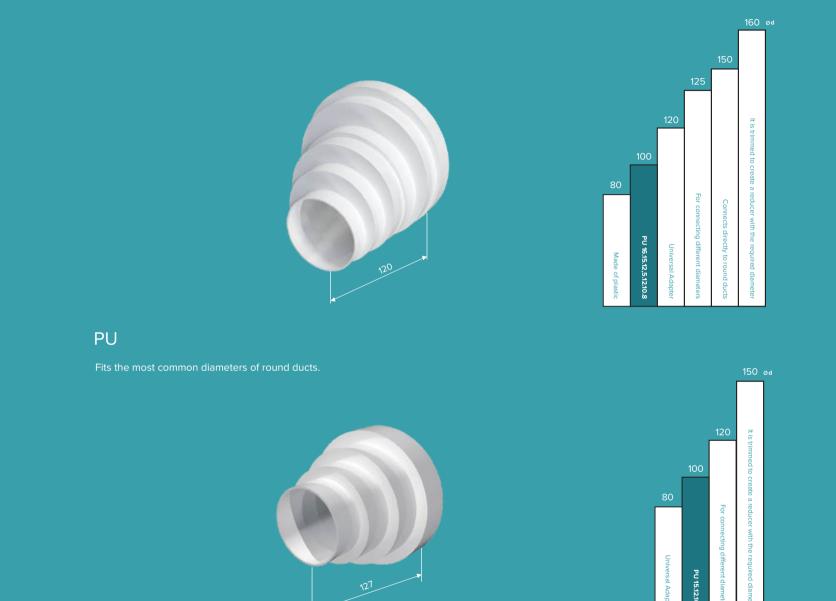
51

LOR COMMECTING DUCTS C

Ød

Before installation, trim the adapter's excess sections using a standard hacksaw.





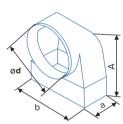


ADAPTERS

For connecting ducts of different types and cross-sections

SKKP

90° Flat-to-Round Duct Adapters



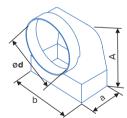
Item code	d	а	b	Α
511SK10KP	100	55	110	135
612SK10KP	100	60	120	145
620SK10KP	100	60	204	146
620SK12,5KP	125	60	204	171
620SK15KP	150	60	204	193
620SK16KP	160	60	204	203
922SK15KP	150	90	220	196

The SKKP connects directly to VP ducts.



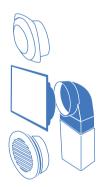
SKFP

90° Flat Duct to Flanged Air Distribution Device Adapters



Item code	d	а	b	Α
511SK10FP	100	55	110	137
612SK10FP	100	60	120	147
620SK10FP	100	60	204	143
620SK12,5FP	125	60	204	168
620SK16FP	160	60	204	204
922SK15FP	150	90	220	196

The SKFP connects directly to fans, grilles, and diffusers.

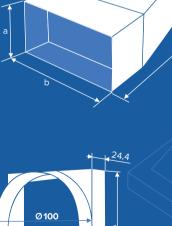






Despite their external similarity, SKKP and SKFP have different applications. Always check the labeling

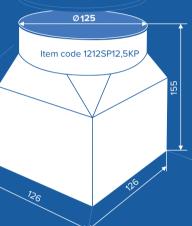
Round-to-Rectangular Duct SKNP Connectors with Front Plate Item code 511SK10NP Adapters for Connecting Round Ducts to Exhaust Hoods SPKP Item code 100 55 110 137 612SP10KP 100 60 120 178 612SP12,5KP 125 60 120 178 620SP12,5KP 125 60 204 178 620SP15KP 150 60 204 178 620SP16KP 160 60 204 178 922SP15KP 150 90 220 200



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SPKP

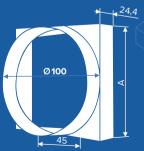
Adapters for Connecting Round Ducts to Exhaust Hoods

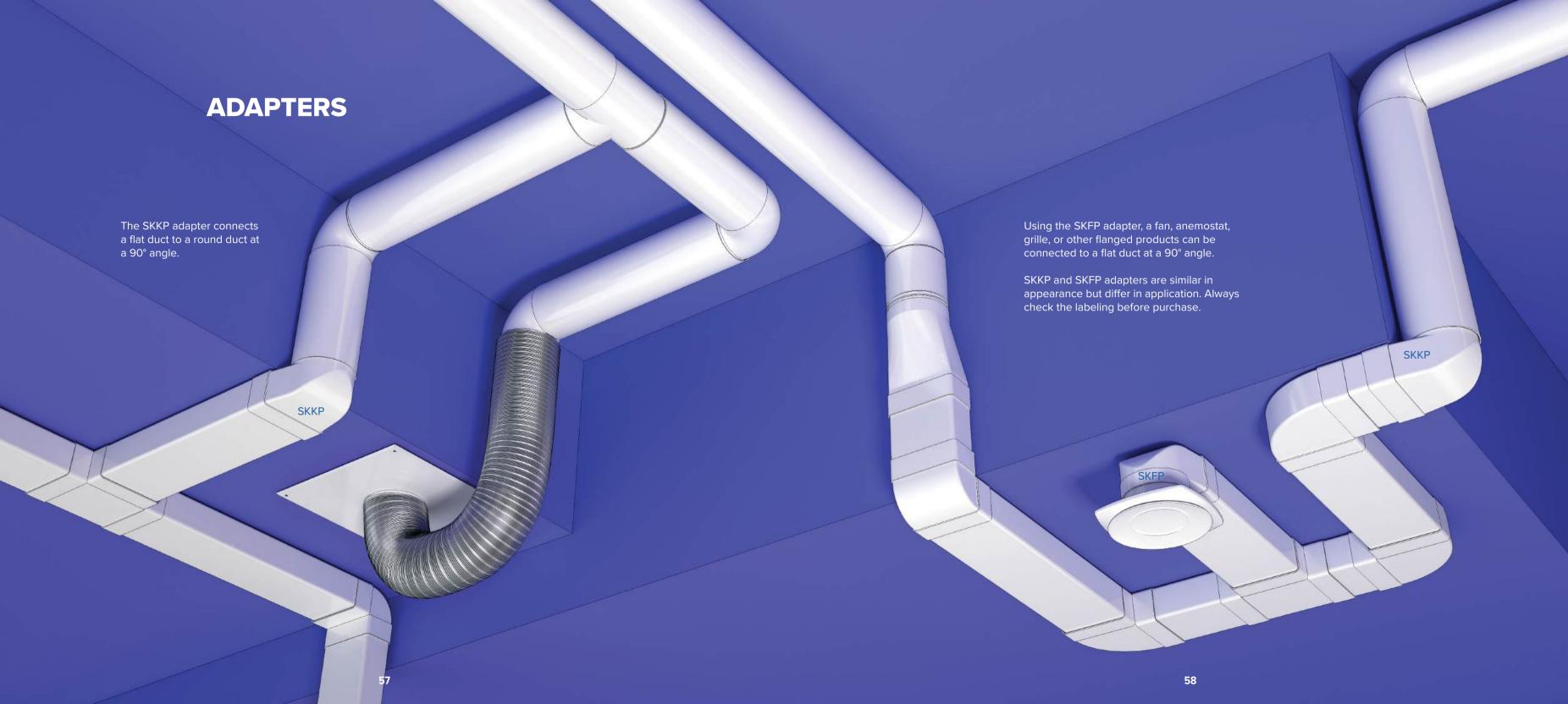


KV

Central Adapters for Connecting Round Ducts

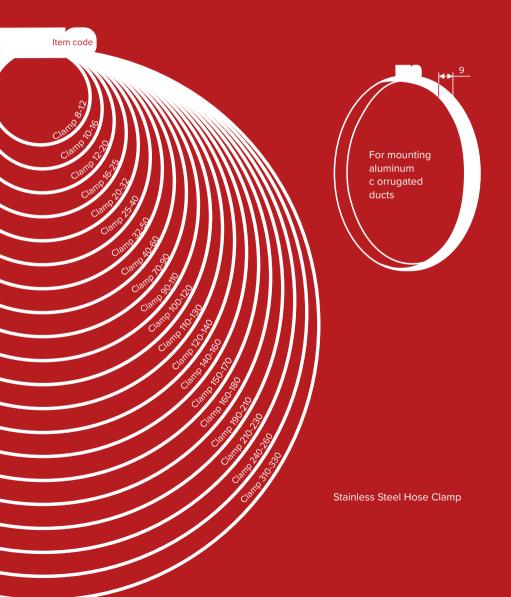
		to Exhaust H
code	А	
Β	90	
В	100	





FASTENING ELEMENTS

For duct mounting, connection sealing and airtightness



Название

Stainless Steel Hose Clamp 8-12 mm, ширина 9 mm
Stainless Steel Hose Clamp 10-16 mm, ширина 9 mm

Stainless Steel Hose Clamp 12-20 mm, ширина 9 mm

Stainless Steel Hose Clamp 16-25 mm, ширина 9 mm
Stainless Steel Hose Clamp 20-32 mm, ширина 9 mm

Stainless Steel Hose Clamp 25-40 mm, ширина 9 mm

Stainless Steel Hose Clamp 32-50 mm, ширина 9 mm

Stainless Steel Hose Clamp 40-60 mm, ширина 9 mm

Stainless Steel Hose Clamp 70-90 mm, ширина 9 mm

Stainless Steel Hose Clamp 90-110 mm, ширина 9 mm

Stainless Steel Hose Clamp 100-120 mm, ширина 9 mm

Stainless Steel Hose Clamp 110-130 mm, ширина 9 mm

Stainless Steel Hose Clamp 120-140 mm, ширина 9 mm

Stainless Steel Hose Clamp 140-160 mm, ширина 9 mm

Stainless Steel Hose Clamp 150-170 mm, ширина 9 mm

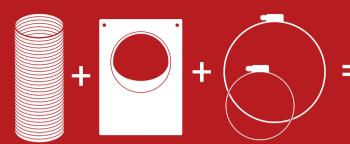
Stainless Steel Hose Clamp 160-180 mm, ширина 9 mm

Stainless Steel Hose Clamp 190-210 mm, ширина 9 mm

Stainless Steel Hose Clamp 210-230 mm, ширина 9 mm

Stainless Steel Hose Clamp 240-260 mm, ширина 9 mm

Stainless Steel Hose Clamp 310-330 mm, ширина 9 mm



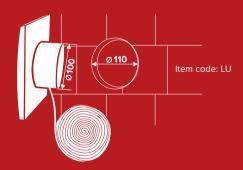
VK

A Ventilation Kit that includes: two clamps, a plastic front plate PTP, and an aluminum flexible duct VA.

Item code	Name
VK 100/4	11VA, 110PTP, 2× 100-120 mm Clamp
VK 125	112,5VA, 125PTP, 2× 120-140 mm Clamp
VK 150/4	15VA, 150PTP, 2×140-160 mm Clamp

LU

Mounting tape LU is used for sealing connections



Single-sided adhesive tape Length: 2 m

Width: 15 mm Thickness: 5 mm

Operating temperature: -20 to +80 °C

LM PVC

PVC mounting tape





ERA GROUP CATALOGUES

«HOW TO SELECT A FAN» CATALOGUE



«COMMERCIAL VENTILATION EQUIPMENT» CATALOGUE



«SUPPLY AND EXHAUST VENTILATION UNITS» CATALOGUE

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THE BIG ERA GROUP CATALOGUE



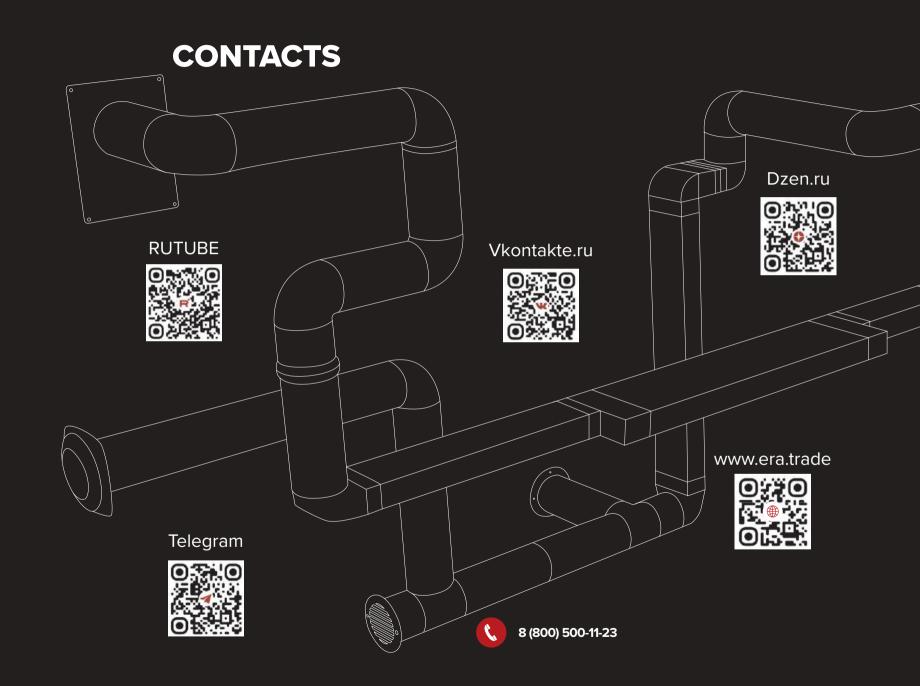
«HOW TO CHOOSE A VENTILATION GRILLE»

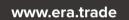
CATALOGUE



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