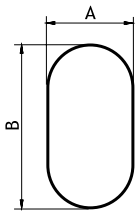


Hydraulic diameter for chimneys of oval shape (for proper diameter designation)

$$DH = 4 \times (3.14 \times A \times A / 4 + (B - A) \times A) / (3.14 \times A + 2 \times (B - A))$$



A \ B	120	130	140	150	160	170	180	185	200	215	230	245	250	255	275	285	300	320	350	
110																				
120		126	132	136	141	145	149	151	156	160	164	168	169	170	174	176	179	182		
130			136	142	147	151	156	158	163	168	173	177	178	179	184	186	189	193		
140				146	152	157	162	164	170	176	181	185	187	188	193	196	199	203		
150					156	162	167	169	176	182	188	193	195	196	202	205	208	213		
160						166	172	174	182	189	195	200	202	204	210	213	217	222		
180								183	192	200	207	214	216	218	225	229	234	240		
200										209	217	225	227	230	239	243	248	255		
225											228	237	240	243	253	258	264	273		
250														253	265	270	278	288		
300																				

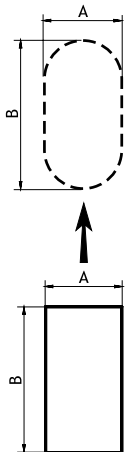
Hydraulic diameter for an oval shaped chimney duct $DH = 4S/O$ (S - cross-section, O - circumference) is a diameter equal (measured by the airflow characteristics) to the diameter of a round duct. For example, for an oval duct of 120x170 dimensions, the hydraulic diameter is 145 mm.

In the table above, marked with frames, there are hydraulic diameters of the oval shaped elements, that are considered as typical in DARCO offer.

Other dimensions are made upon individual order.

Hydraulic diameter for chimney of rectangular shape (for proper diameter designation)

$$DH = 2AB / (A + B)$$

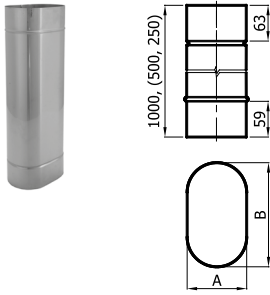


A \ B	120	125	130	135	140	150	160	165	170	180	200	210	230	235	250	260	270	300	350	
110																				
120	120	122	125	127	129	133	137	139	141	144	150	153	158	159	162	164	166	171		
125		125	127	130	132	136	140	142	144	148	154	157	162	163	167	169	171	176		
130			130	132	135	139	143	145	147	151	158	161	166	167	171	173	176	181		
135				135	137	142	146	149	150	154	161	164	170	171	175	178	180	186		
140					140	145	149	151	154	158	165	168	174	175	179	182	184	191		
150						155	157	159	164	171	175	175	182	183	188	190	193	200		
160							162	165	169	178	182	189	190	195	198	201	209			
180									180	189	194	202	204	209	213	216	225			
200										200	205	214	216	222	226	230	240			
225												227	230	237	241	245	257			
235													235	242	247	251	264			
250															255	260	273			
300																				

Hydraulic diameter for a rectangular shaped chimney duct $DH = 2AB / (A + B)$ is a diameter equal (measured by the airflow characteristics) to the diameter of a round duct. For example, for a rectangular duct of 120x165 cross - section, the hydraulic diameter is 139 mm. Basing on a certain A x B cross-section and matching it with the corresponding hydraulic diameter (for example DH=139 mm) it is possible to calculate the equivalent oval duct dimensions (for example 120x170 mm).

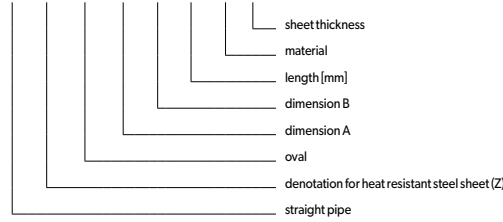
Rectangular chimney ducts system is not in DARCO standard offer. They are made upon individual order.

1. STRAIGHT PIPE RP



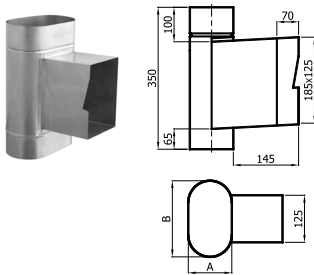
Dimension A/B	120	120	120	120	120	120	130	120	140	130	for s=0,6
Weight [kg]	2.30	2.45	2.60	2.70	2.85	3.00	3.15	3.40	3.40	3.80	

RP m ow Ax B / L - m s



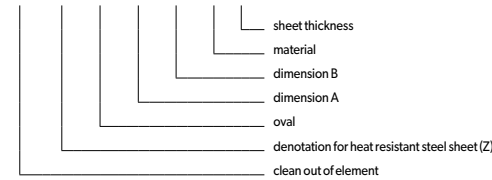
Destination	S	-	S - flue ducts (gas, oil)
	-	D	D - smoke ducts
Material	CH	-	CH - stainless steel 1.4404
	-	Z	Z - heat resistant steel 1.4828
Sheet thickness s	6	-	6 - sheet thickness 0.6 mm
	8	8	8 - sheet thickness 0.8 mm
	1	1	1 - sheet thickness 1.0 mm

2. CLEAN OUT OF ELEMENT WC



Dimension A/B	120	120	120	120	120	120	130	120	140	130	for s=0,6
Weight [kg]	1.25	1.30	1.35	1.40	1.45	1.50	1.55	1.60	1.65	1.75	

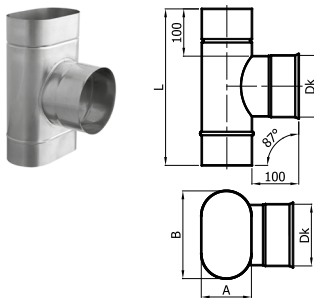
WC m ow Ax B - m s



Destination	S	-	S - flue ducts (gas, oil)
	-	D	D - smoke ducts
Material	CH	-	CH - stainless steel 1.4404
	-	Z	Z - heat resistant steel 1.4828
Sheet thickness s	6	-	6 - sheet thickness 0.6 mm
	8	8	8 - sheet thickness 0.8 mm
	1	1	1 - sheet thickness 1.0 mm

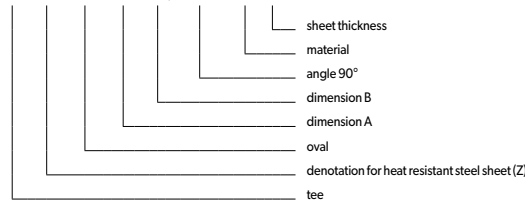
Caution!
Application with outlet on the narrow side - upon individual order.

3. TEE 90° TR/90



Dimension A/B	120	120	120	120	120	120	130	120	140	130	for s=0,6
Dk	152.8	162.4	183.0	183.0	202.7	202.1	202.1	227.6	227.6	253.3	
L [mm]	350	360	370	380	390	400	410	425	425	450	
Weight [kg]	0.95	1.00	1.10	1.20	1.25	1.35	1.45	1.60	1.60	1.85	

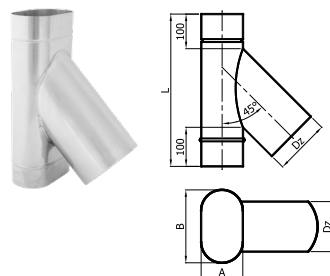
TR m ow Ax B / 90 - m s



Destination	S	-	S - flue ducts (gas, oil)
	-	D	D - smoke ducts
Material	CH	-	CH - stainless steel 1.4404
	-	Z	Z - heat resistant steel 1.4828
Sheet thickness s	6	-	6 - sheet thickness 0.6 mm
	8	8	8 - sheet thickness 0.8 mm
	1	1	1 - sheet thickness 1.0 mm

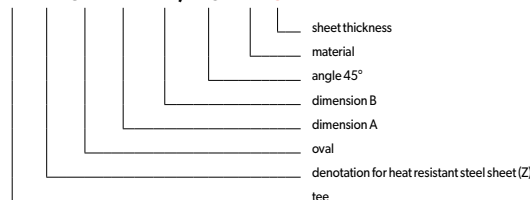
Caution!
Application with outlet on the narrow side - upon individual order.

4. TEE 45° TR/45



Dimension A/B	120	120	120	120	120	120	130	120	140	130	for s=0,6
Dz	151.8	161.4	182.0	182.0	201.1	201.1	201.1	226.6	226.6	252.3	
L [mm]	415	425	440	455	470	480	495	520	520	555	
Weight [kg]	1.20	1.30	1.40	1.50	1.65	1.75	1.90	2.10	2.10	2.50	

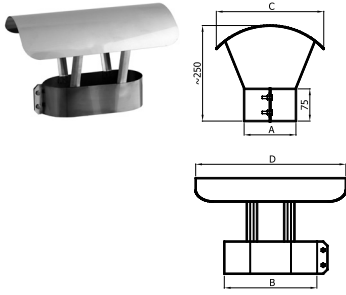
TR m ow Ax B / 45 - m s



Destination	S	-	S - flue ducts (gas, oil)
	-	D	D - smoke ducts
Material	CH	-	CH - stainless steel 1.4404
	-	Z	Z - heat resistant steel 1.4828
Sheet thickness s	6	-	6 - sheet thickness 0.6 mm
	8	8	8 - sheet thickness 0.8 mm
	1	1	1 - sheet thickness 1.0 mm

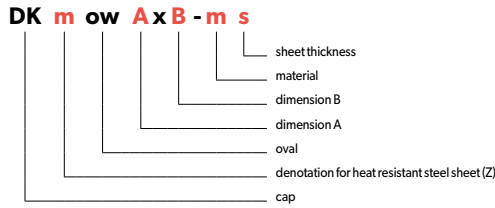
Caution!
Application with outlet on the narrow side - upon individual order.

5. CAP DK

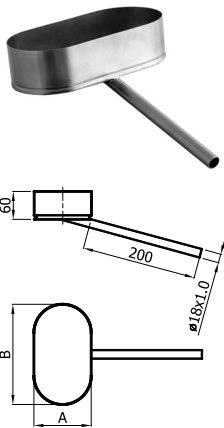


Dimension A/B	120	120	120	120	120	120	130	120	140	130	for s=0.6
C	230	230	230	230	230	230	230	230	230	230	
D	300	315	330	345	360	375	385	415	405	450	
Weight [kg]	0.42	0.44	0.46	0.48	0.50	0.52	0.56	0.57	0.62	0.65	

Destination	S	-	S - flue ducts (gas, oil)
	-	D	D - smoke ducts
Material	CH	-	CH - stainless steel 1.4404
	-	Z	Z - heat resistant steel 1.4828
Sheet thickness s	6	-	6 - sheet thickness 0.6 mm
	8	8	8 - sheet thickness 0.8 mm
	1	1	1 - sheet thickness 1.0 mm

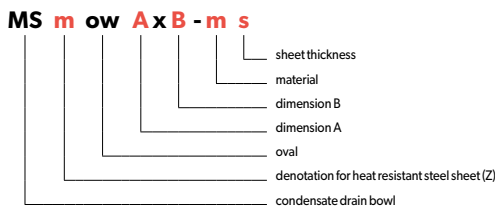


6. CONDENSATE DRAIN BOWL MS



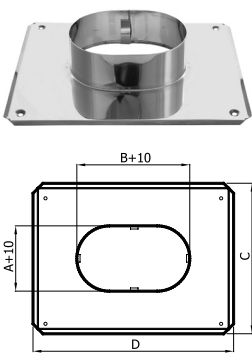
Dimension A/B	120	120	120	120	120	120	130	120	140	130	for s=0.6
C	170	185	200	215	230	245	255	285	275	320	
D	300	315	330	345	360	375	385	415	405	450	
Weight [kg]	0.32	0.34	0.35	0.37	0.39	0.41	0.44	0.45	0.48	0.52	

Destination	S	-	S - flue ducts (gas, oil)
	-	D	D - smoke ducts
Material	CH	-	CH - stainless steel 1.4404
	-	Z	Z - heat resistant steel 1.4828
Sheet thickness s	6	-	6 - sheet thickness 0.6 mm
	8	8	8 - sheet thickness 0.8 mm
	1	1	1 - sheet thickness 1.0 mm



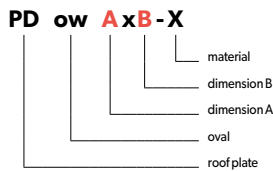
Caution!
Application with the drain pipe on the narrow side-upon individual order

7. ROOF PLATE PD

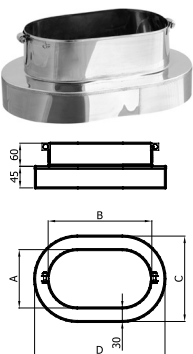


Dimension A/B	120	120	120	120	120	120	130	120	140	130	for s=0.6
C	300	300	300	300	300	300	300	300	300	300	
D	360	380	380	400	400	400	400	420	420	470	
Weight [kg]	0.53	0.56	0.56	0.59	0.59	0.58	0.57	0.60	0.60	0.66	

Destination	S	S - flue ducts (gas, oil)
	D	D - smoke ducts
Material	X	X - stainless steel 1.4301
Sheet thickness s	6	6 - sheet thickness 0.6 mm

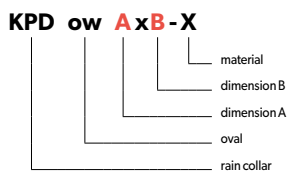


8. RAIN COLLAR KPD

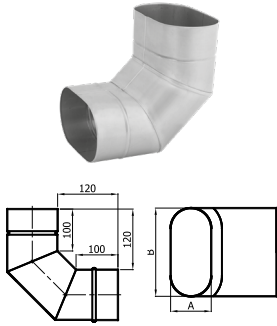


Dimension A/B	120	120	120	120	120	120	130	120	140	130	for s=0.6
C	170	185	200	215	230	245	255	285	275	320	
D	180	180	180	180	180	180	180	180	200	190	
Weight [kg]	0.42	0.44	0.45	0.47	0.49	0.50	0.53	0.55	0.56	0.60	

Destination	S	S - flue ducts (gas, oil)
	D	D - smoke ducts
Material	X	X - stainless steel 1.4301
Sheet thickness s	6	6 - sheet thickness 0.6 mm

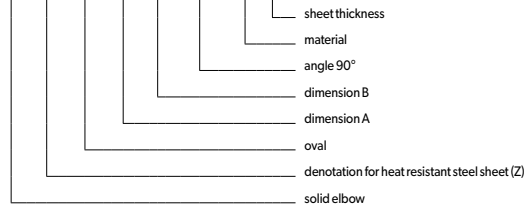


9. SOLID ELBOW 90° KS/90



Dimension A/B	120	120	120	120	120	120	130	120	140	130	for s=0.6
Weight [kg]	0.65	0.70	0.75	0.80	0.85	0.87	0.90	1.00	1.00	1.10	

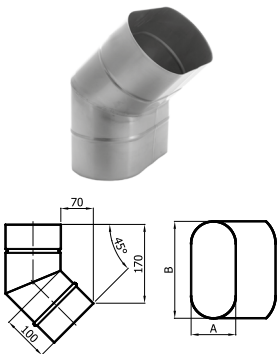
KS m ow Ax B / 90 - m s



Destination	S	-	S - flue ducts (gas, oil)
	-	D	D - smoke ducts
Material	CH	-	CH - stainless steel 1.4404
	-	Z	Z - heat resistant steel 1.4828
Sheet thickness s	6	-	6 - sheet thickness 0.6 mm
	8	8	8 - sheet thickness 0.8 mm
	1	1	1 - sheet thickness 1.0 mm

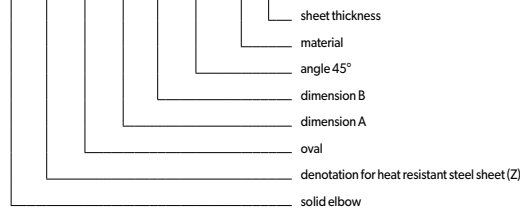
Caution!
Application of elbow on the narrow side-upon individual order.

10. SOLID ELBOW 45° KS/45



Dimension A/B	120	120	120	120	120	120	130	120	140	130	for s=0.6
Weight [kg]	0.45	0.48	0.52	0.55	0.57	0.60	0.63	0.68	0.68	0.75	

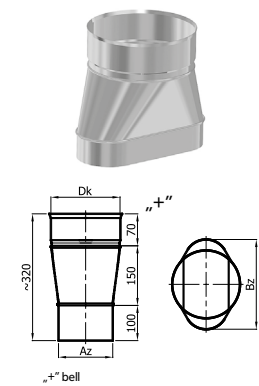
KS m ow Ax B / 45 - m s



Destination	S	-	S - flue ducts (gas, oil)
	-	D	D - smoke ducts
Material	CH	-	CH - stainless steel 1.4404
	-	Z	Z - heat resistant steel 1.4828
Sheet thickness s	6	-	6 - sheet thickness 0.6 mm
	8	8	8 - sheet thickness 0.8 mm
	1	1	1 - sheet thickness 1.0 mm

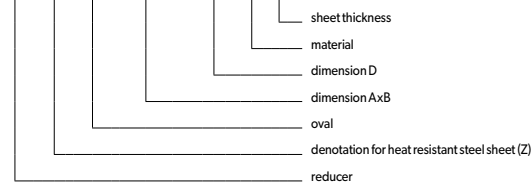
Caution!
Application of elbow on the narrow side-upon individual order.

11. REDUCER RD-K



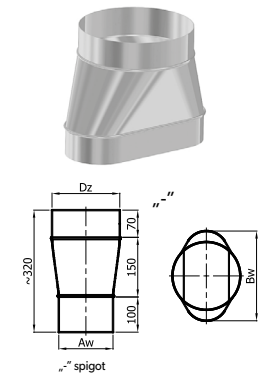
Dimension Az/Bz	120	120	120	120	120	120	130	120	140	130	for s=0.6
Dk	170	185	200	215	230	245	255	285	275	320	
Weight [kg]	0.75	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.10	1.25	

RD m ow Ax B / + D - m s



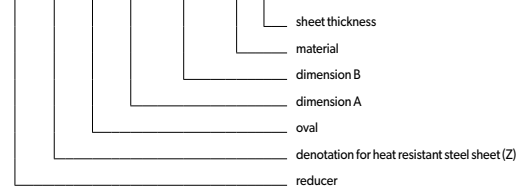
Destination	S	-	S - flue ducts (gas, oil)
	-	D	D - smoke ducts
Material	CH	-	CH - stainless steel 1.4404
	-	Z	Z - heat resistant steel 1.4828
Sheet thickness s	6	-	6 - sheet thickness 0.6 mm
	8	8	8 - sheet thickness 0.8 mm
	1	1	1 - sheet thickness 1.0 mm

12. REDUCER RD-N



Wymiar Aw/Bw	120	120	120	120	120	120	130	120	140	130	for s=0.6
Dz	170	185	200	215	230	245	255	285	275	320	
Weight [kg]	0.75	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.10	1.25	

RD m ow Ax B / - D - m s



Destination	S	-	S - flue ducts (gas, oil)
	-	D	D - smoke ducts
Material	CH	-	CH - stainless steel 1.4404
	-	Z	Z - heat resistant steel 1.4828
Sheet thickness s	6	-	6 - sheet thickness 0.6 mm
	8	8	8 - sheet thickness 0.8 mm
	1	1	1 - sheet thickness 1.0 mm