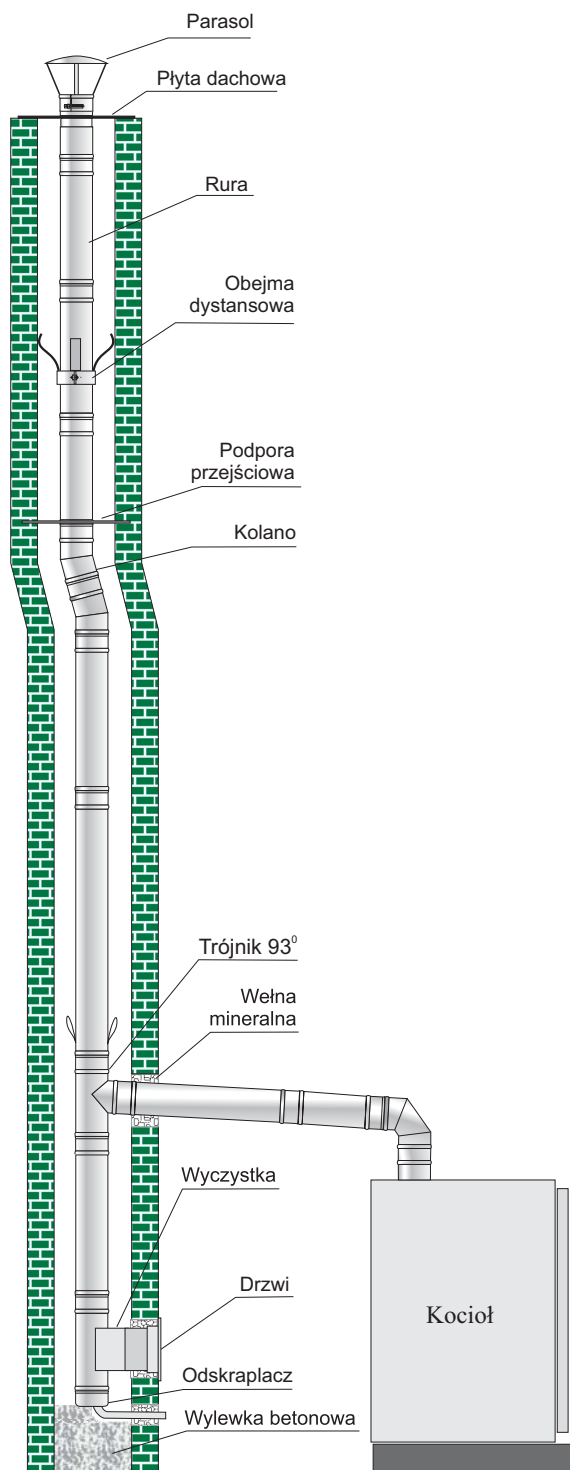


## JEDNOŚCIENNE PRZEWODY KOMINOWE TYPU **SPUŻ**



### PRZEZNACZENIE:

stosowany jako wkład do istniejących szachtów w celu odprowadzenia spalin z urządzeń grzewczych opalanych drewnem i ekologicznymi paliwami stałymi o maksymalnej temperaturze spalin 600° C: grubość blachy przewodu spalinowego wynosi 1 mm.

### BUDOW RUR I KSZTAŁTEK:

elementy jednościenne,

### ZAKRES ŚREDNIC:

120÷400 mm

### PALIWO:

drewno, ekologiczne paliwa stałe

### GATUNEK I GRUBOŚĆ MATERIAŁU:

stal nierdzewna z grupy żaroodpornych o grubości 1,00 mm - stal 1.4301

### ODPORNOŚĆ NA KOROZJĘ:

Vm / V3

### ODPORNOŚĆ NA POŻAR SADZY:

odporny

### ODLEGŁOŚĆ OD MATERIAŁÓW PALNYCH:

250 mm

### KLSA TEMPERATURY:

T 600-600° C

### SPOSÓB PRACY KOMINA:

podciśnieniowy

### ODPORNOŚĆ NA DZIAŁANIE KONDENSATU:

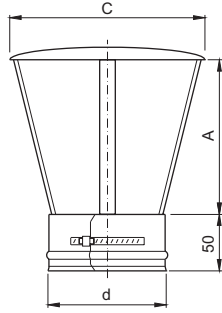
D

## ŻAROODPORNY SYSTEM O PRZEKROJU OKRĄGLYM

### PARASOL

401

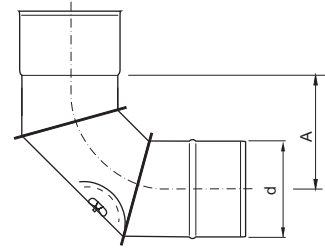
d	A	C	INDEX
120	130	180	401120000
130	130	180	401130000
140	130	250	401140000
150	130	250	401150000
160	190	250	401160000
180	190	300	401180000
200	190	d+100	401200000
225	190	d+100	401220000
250	190	d+100	401250000
300	230	d+100	401300000
350	230	d+100	401350000
400	230	d+100	401400000



### KOLANO 93° Z WYCZYSTKĄ

410

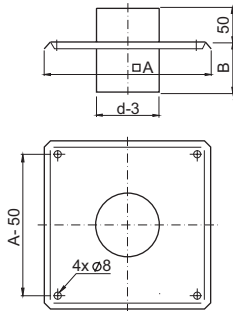
d	A	INDEX
120	135	410120000
130	135	410130000
140	150	410140000
150	150	410150000
160	165	410160000
180	165	410180000
200	180	410200000
225	180	410220000
250	210	410250000
300	235	410300000
350	270	410350000
400	305	410400000



### PŁYTA DACHOWA

402

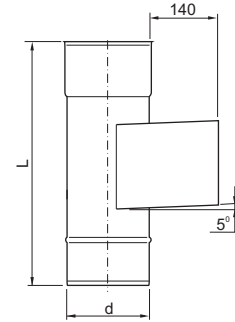
d	A	B	INDEX
120	320	93	402120000
130	320	93	402130000
140	320	93	402140000
150	330	93	402150000
160	330	150	402160000
180	400	150	402180000
200	400	150	402200000
225	400	150	402220000
250	450	150	402250000
300	500	150	402300000
350	550	150	402350000
400	600	150	402400000



### WYCZYSTKA

411

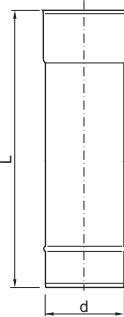
d	L	INDEX
120	333	411120000
130	333	411130000
140	333	411140000
150	333	411150000
160	400	411160000
180	400	411180000
200	400	411200000
225	400	411220000
250	400	411250000
300	500	411300000
350	500	411350000
400	500	411400000



### RURA

403, 404, 406

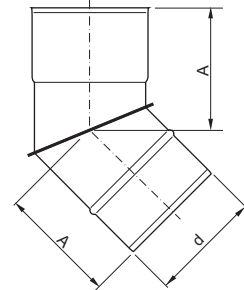
d	INDEX		
	L 1000	L 500	L 250
120	403120000	404120000	406120000
130	403130000	404130000	406130000
140	403140000	404140000	406140000
150	403150000	404150000	406150000
160	403160000	404160000	406160000
180	403180000	404180000	406180000
200	403200000	404200000	406200000
225	403220000	404220000	406220000
250	403250000	404250000	406250000
300	403300000	404300000	406300000
350	403350000	404350000	406350000
400	403400000	404400000	406400000



### KOLANO 45°

415

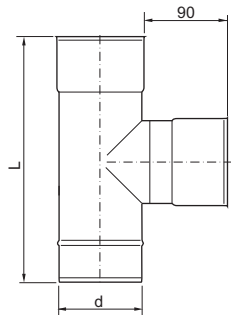
d	A	INDEX
120	120	415120000
130	120	415130000
140	120	415140000
150	120	415150000
160	130	415160000
180	130	415180000
200	140	415200000
225	160	415220000
250	160	415250000
300	170	415300000
350	185	415350000
400	200	415400000



### TRÓJNIK 93°

407

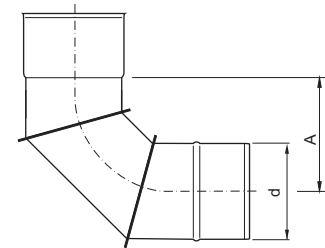
d	L	INDEX
120	333	407120000
130	333	407130000
140	333	407140000
150	333	407150000
160	333	407160000
180	400	407180000
200	400	407200000
225	450	407220000
250	450	407250000
300	500	407300000
350	550	407350000
400	600	407400000



### KOLANO 93°

416

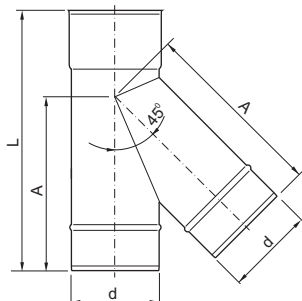
d	A	INDEX
120	135	416120000
130	135	416130000
140	150	416140000
150	150	416150000
160	165	416160000
180	165	416180000
200	180	416200000
225	180	416220000
250	210	416250000
300	235	416300000
350	270	416350000
400	305	416400000



### TRÓJNIK 45°

409

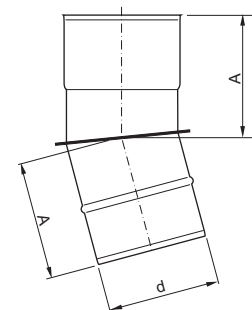
d	A	L	INDEX
120	225	333	409120000
130	245	360	409130000
140	245	360	409140000
150	270	400	409150000
160	280	400	409160000
180	310	430	409180000
200	350	497	409200000
225	400	560	409220000
250	410	560	409250000
300	500	690	409300000
350	540	730	409350000
400	620	900	409400000



### KOLANO 15°

419

d	A	INDEX
120	120	419120000
130	120	419130000
140	120	419140000
150	120	419150000
160	130	419160000
180	130	419180000
200	140	419200000
225	160	419220000
250	160	419250000
300	170	419300000
350	185	419350000
400	200	419400000

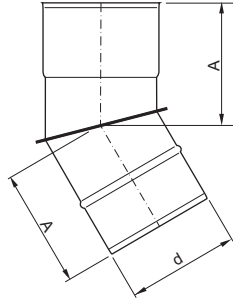


# ŻAROODPORNY SYSTEM O PRZEKROJU OKRĄGŁYM

## KOLANO 30°

420

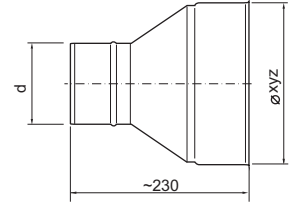
d	A	INDEX
120	120	420120000
130	120	420130000
140	120	420140000
150	120	420150000
160	130	420160000
180	130	420180000
200	140	420200000
225	160	420220000
250	160	420250000
300	170	420300000
350	185	420350000
400	200	420400000



## REDUKCJA

425

d	xyz	INDEX
120		425120xyz
130		425130xyz
140		425140xyz
150		425150xyz
160		425160xyz
180		425180xyz
200		425200xyz
225		425220xyz
250		425250xyz
300		425300xyz
350		425350xyz
400		425400xyz



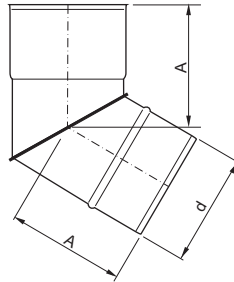
$xyz > d \quad xyz_{max} = 2 * d$

Przykład: Redukcja 120/150, d=120, xyz=150, index=425120150

## KOLANO 60°

423

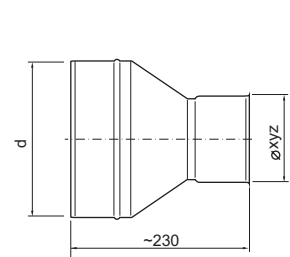
d	A	INDEX
120	120	423120000
130	120	423130000
140	120	423140000
150	120	423150000
160	130	423160000
180	130	423180000
200	140	423200000
225	160	423220000
250	160	423250000
300	170	423300000
350	185	423350000
400	200	423400000



## REDUKCJA ODWROTNA

426

d	xyz	INDEX
120		426120xyz
130		426130xyz
140		426140xyz
150		426150xyz
160		426160xyz
180		426180xyz
200		426200xyz
225		426220xyz
250		426250xyz
300		426300xyz
350		426350xyz
400		426400xyz



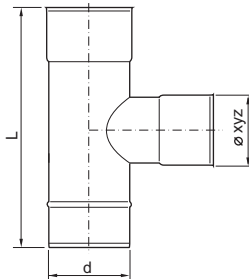
$d > xyz \quad d_{max} = 2 * xyz$

Przykład: Redukcja 160/120, d=160, xyz=120, index=426160120

## TRÓJNIK REDUKCYJNY

408

d	L	xyz	INDEX
120	333		408120xyz
130	333		408130xyz
140	333		408140xyz
150	333		408150xyz
160	400		408160xyz
180	400		408180xyz
200	400		408200xyz
225	450		408220xyz
250	450		408250xyz
300	500		408300xyz
350	550		408350xyz
400	600		408400xyz



$d > xyz$

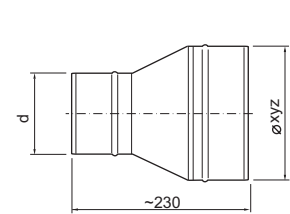
Przykład:

Trójnik redukcyjny 130/120, d=130, xyz=120, indeks: 408130120

## REDUKCJA DWUNYFLOWA

428

d	xyz	INDEX
120		428120xyz
130		428130xyz
140		428140xyz
150		428150xyz
160		428160xyz
180		428180xyz
200		428200xyz
225		428220xyz
250		428250xyz
300		428300xyz
350		428350xyz
400		428400xyz



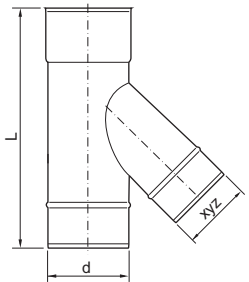
$xyz > d \quad xyz_{max} = 2 * d$

Przykład: Redukcja 120/150, d=120, xyz=150, index=428120150

## TRÓJNIK 45° REDUKCYJNY

413

d	xyz	INDEX
130		413130xyz
140		413140xyz
150		413150xyz
160		413160xyz
180		413180xyz
200		413200xyz
225		413220xyz
250		413250xyz
300		413300xyz
350		413350xyz
400		413400xyz



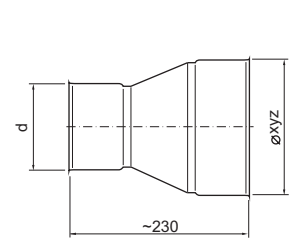
$d > xyz$

xyz	120	130	140	150	160	180	200	225	250	300	350
L	333	360	360	400	400	430	500	560	560	690	730

## REDUKCJA DWUKIELICHOWA

429

d	xyz	INDEX
120		429120xyz
130		429130xyz
140		429140xyz
150		429150xyz
160		429160xyz
180		429180xyz
200		429200xyz
225		429220xyz
250		429250xyz
300		429300xyz
350		429350xyz
400		429400xyz



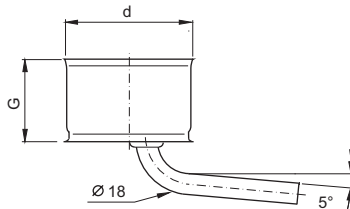
$d > xyz \quad d_{max} = 2 * xyz$

Przykład: Redukcja 160/120, d=160, xyz=120, index=429160120

## ODSKRAPLACZ

414

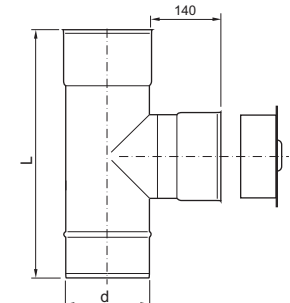
d	G	INDEX
120	70	414120000
130	70	414130000
140	70	414140000
150	70	414150000
160	80	414160000
180	80	414180000
200	80	414200000
225	80	414220000
250	80	414250000
300	80	414300000
350	80	414350000
400	80	414400000



## WYCZYSTKA OKRĄGŁA

412

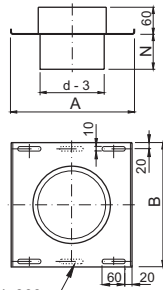
d	L	INDEX
120	250	412120000
130	333	412130000
140	333	412140000
150	333	412150000
160	400	412160000
180	400	412180000
200	400	412200000
225	400	412220000
250	400	412250000
300	500	412300000
350	500	412350000
400	500	412400000



PODPORA PRZEJŚCIOWA

424

d	A	B	N	INDEX
120	230	250	140	424120000
130	230	250	140	424130000
140	230	250	140	424140000
150	300	300	140	424150000
160	300	300	140	424160000
180	300	300	190	424180000
200	300	300	190	424200000
225	300	300	190	424220000
250	350	350	190	424250000
300	400	400	190	424300000
350	450	450	190	424350000
400	500	500	190	424400000

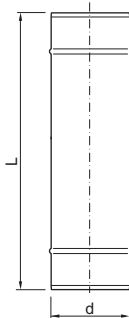


Dodatkowy otwór dla  $d > 300$

RURA DWUNYPLOWA

430, 431, 432

d	INDEX		
	L 1000	L 500	L 250
120	430120000	431120000	432120000
130	430130000	431130000	432130000
140	430140000	431140000	432140000
150	430150000	431150000	432150000
160	430160000	431160000	432160000
180	430180000	431180000	432180000
200	430200000	431200000	432200000
225	430220000	431220000	432220000
250	430250000	431250000	432250000
300	430300000	431300000	432300000
350	430350000	431350000	432350000
400	430400000	431400000	432400000



RURA DWUKIELICHOWA

445, 446, 447

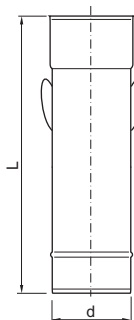
d	INDEX		
	L 1000	L 500	L 250
120	445120000	446120000	447120000
130	445130000	446130000	447130000
140	445140000	446140000	447140000
150	445150000	446150000	447150000
160	445160000	446160000	447160000
180	445180000	446180000	447180000
200	445200000	446200000	447200000
225	445220000	446220000	447220000
250	445250000	446250000	447250000
300	445300000	446300000	447300000
350	445350000	446350000	447350000
400	445400000	446400000	447400000



RURA Z USZAMI

403, 404, 406

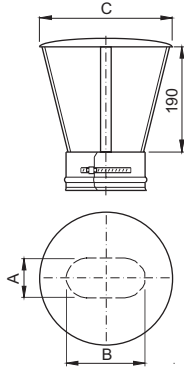
d	INDEX		
	L 1000	L 500	L 250
120	403120100	404120100	406120100
130	403130100	404130100	406130100
140	403140100	404140100	406140100
150	403150100	404150100	406150100
160	403160100	404160100	406160100
180	403180100	404180100	406180100
200	403200100	404200100	406200100
225	403220100	404220100	406220100
250	403250100	404250100	406250100
300	403300100	404300100	406300100
350	403350100	404350100	406350100
400	403400100	404400100	406400100



# ŻAROODPORNY SYSTEM O PRZEKROJU OWALNYM

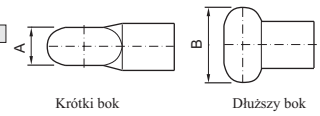
## PARASOL OWALNY 401

A	B	C	INDEX
100	200	300	4011000006
120	180	300	4011800006
120	240	350	4011200006
140	250	350	4011400006

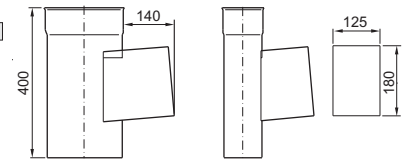


## WYCZYSTKA OWALNA 411

Dłuższy bok		
A	B	INDEX
100	200	4111000006
120	180	4111800006
120	240	4111200006
140	250	4111400006

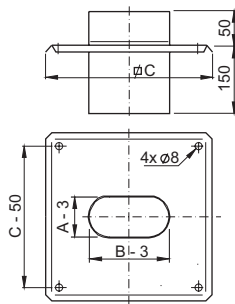


Krótki bok		
A	B	INDEX
100	200	4111000106
120	180	4111800106
120	240	4111200106
140	250	4111400106



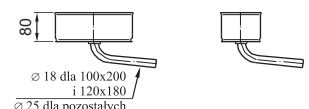
## PŁYTA DACHOWA OWALNA 402

A	B	C	INDEX
100	200	400	4021000006
120	180	400	4021800006
120	240	450	4021200006
140	250	450	4021400006

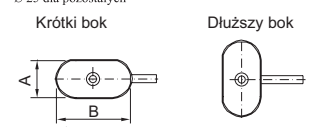


## ODSKRAPLACZ OWALNY 414

Dłuższy bok		
A	B	INDEX
100	200	4141000006
120	180	4141800006
120	240	4141200006
140	250	4141400006

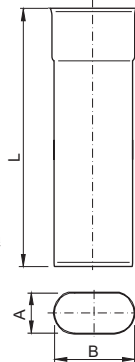


Krótki bok		
A	B	INDEX
100	200	4141000106
120	180	4141800106
120	240	4141200106
140	250	4141400106



## RURA OWALNA 403, 404, 406

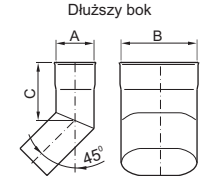
INDEX					
A	B	L 1000	L 500	L 250	
100	200	4031000006	4041000006	4061000006	
120	180	4031800006	4041800006	4061800006	
120	240	4031200006	4041200006	4061200006	
140	250	4031400006	4041400006	4061400006	



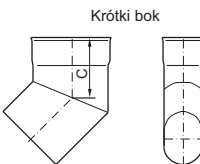
Rury owalne w systemie SPUż produkowane są ze stali o grubości 0.8 mm

## KOLANO 45° OWALNE 415

Dłuższy bok			
A	B	C	INDEX
100	200	110	4151000006
120	180	115	4151800006
120	240	115	4151200006
140	250	120	4151400006

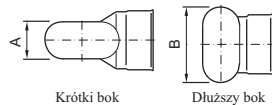


Krótki bok			
A	B	C	INDEX
100	200	132	4151000106
120	180	140	4151800106
120	240	140	4151200106
140	250	142	4151400106

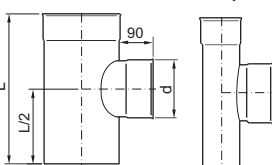


## TRÓJNIK 93° OWALNY 407

Dłuższy bok				
A	B	d	L	INDEX
100	200	150	333	4071000006
120	180	150	400	4071800006
120	240	180	400	4071200006
140	250	200	400	4071400006

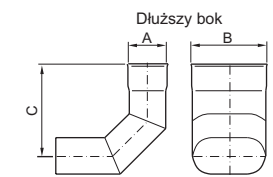


Krótki bok				
A	B	d	L	INDEX
100	200	150	333	4071000106
120	180	150	400	4071800106
120	240	180	400	4071200106
140	250	200	400	4071400106

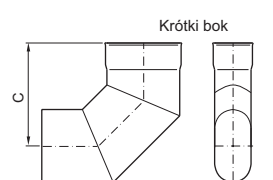


## KOLANO 93° OWALNE 417

Dłuższy bok			
A	B	C	INDEX
100	200	180	4171000006
120	180	180	4171800006
120	240	180	4171200006
140	250	190	4171400006

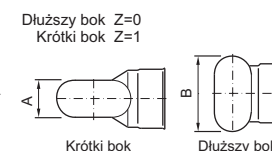


Krótki bok			
A	B	C	INDEX
100	200	220	4171000106
120	180	220	4171800106
120	240	240	4171200106
140	250	245	4171400106

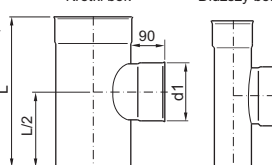


## TRÓJNIK 93° REDUKCYJNY OWALNY 408

A	B	d1	L	INDEX
100	200	130	333	40810013Z6
100	200	160	400	40810016Z6
100	200	180	400	40810018Z6
100	200	200	400	40810020Z6



120	180	130	333	40818013Z6
120	180	160	400	40818016Z6
120	180	180	400	40818018Z6
120	180	200	400	40818020Z6



120	240	150	333	40812015Z6
120	240	160	400	40812016Z6
120	240	200	400	40812020Z6

## ELEMENT NIETYPOWY 999

Elementy niekatalogowe wykonywane są na podstawie rysunków dostarczonych przez klienta. Wycena takich elementów jest oparta na indywidualnej kalkulacji.