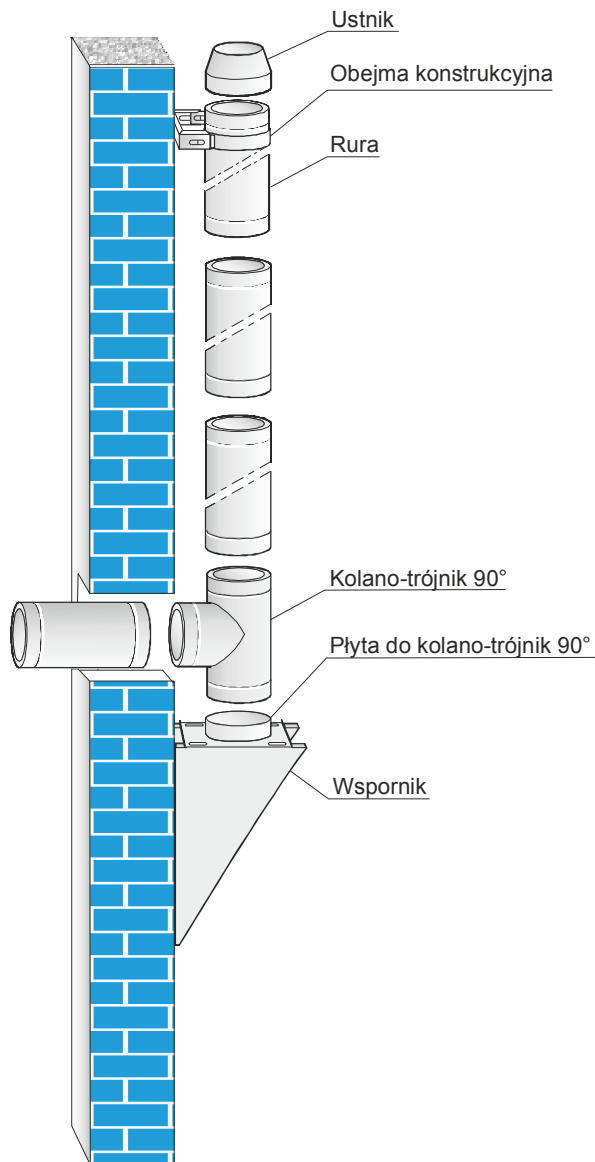


## Przewody kominowe

### typu **DWWk**



#### PRZEZNACZENIE:

odprowadzenie spalin z kotłów kondensacyjnych opalanych gazem lub olejem opałowym o maksymalnej temperaturze spalin 120°C

#### BUDOWA RUR I KSZTAŁTEK:

elementy spalinowe izolowane wełną mineralną o grubości 30÷50 mm,

#### ZAKRES ŚREDNIC:

- dwuścienne izolowane 120/200÷500/600 mm

#### PALIWO:

Gaz lub olej opałowy

#### GATUNEK I GRUBOŚĆ MATERIAŁ:

stal nierdzewna i kwasoodporna 1.4301 /opcjonalnie 1.4404, 1.4521/ o grubości 0,5÷0,8 mm

#### ODPORNOŚĆ NA KOROZJĘ:

Vm \V2 \V3

#### ODPORNOŚĆ NA POŻAR SADZY:

Nieodporny

#### ODLEGŁOŚĆ OD MATERIAŁÓW PALNYCH:

50 mm

#### KLASA TEMPERATURY:

T120 - 120°C (dotyczy temperatury spalin)

#### KLASACIŚNIENIA:

klasa P1 – 200 Pa (spalinowy)

#### SPOSÓB PRACY KOMINA:

nadciśnieniowy (szczelność połączeń zapewniają uszczelki EPDM typ EP 1692 umieszczone w połączeniach kielichowych)

#### ODPORNOŚĆ NA DZIAŁANIE

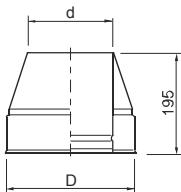
#### KONDENSATU:

W/D

**USTNIK**

**351**

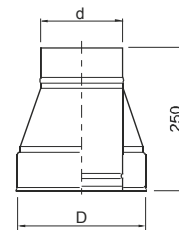
d	D	INDEX
120	200	3511200005
130	200	3511300005
140	200	3511400005
150	225	3511500005
160	225	3511600005
180	250	3511800005
200	300	3512000005
225	300	3512200005
250	350	3512500005
300	400	3513000005
350	450	3513500005
400	500	3514000005
450	550	3514500005
500	600	3515000005



**USTNIK POD PARASOL**

**352**

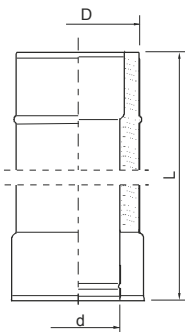
d	D	INDEX
120	200	3521200005
130	200	3521300005
140	200	3521400005
150	225	3521500005
160	225	3521600005
180	250	3521800005
200	300	3522000005
225	300	3522200005
250	350	3522500005
300	400	3523000005
350	450	3523500005
400	500	3524000005
450	550	3524500005
500	600	3525000005



**RURA**

**353, 354, 355, 356**

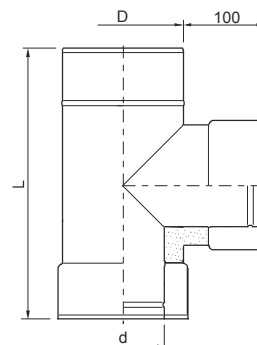
d	D	INDEX			
		L1000	L500	L330	L2501
120	200	3531200005	3541200005	3551200005	3561200005
130	200	3531300005	3541300005	3551300005	3561300005
140	200	3531400005	3541400005	3551400005	3561400005
150	225	3531500005	3541500005	3551500005	3561500005
160	225	3531600005	3541600005	3551600005	3561600005
180	250	3531800005	3541800005	3551800005	3561800005
200	300	3532000005	3542000005	3552000005	3562000005
225	300	3532200005	3542200005	3552200005	3562200005
250	350	3532500005	3542500005	3552500005	3562500005
300	400	3533000005	3543000005	3553000005	3563000005
350	450	3533500005	3543500005	3553500005	3563500005
400	500	3534000005	3544000005	3554000005	3564000005
450	550	3534500005	3544500005	3554500005	3564500005
500	600	3535000005	3545000005	3555000005	3565000005



**TRÓJNIK 90°**

**357**

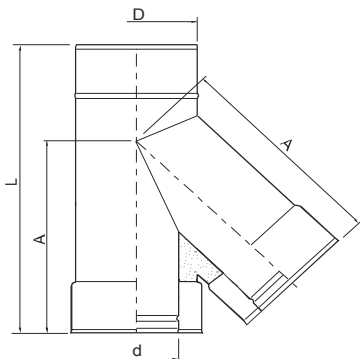
d	D	L	INDEX
120	200	400	3571200005
130	200	400	3571300005
140	200	400	3571400005
150	225	450	3571500005
160	225	450	3571600005
180	250	450	3571800005
200	300	500	3572000005
225	300	500	3572200005
250	350	550	3572500005
300	400	600	3573000005
350	450	650	3573500005
400	500	700	3574000005
450	550	750	3574500005
500	600	800	3575000005



**TRÓJNIK 45°**

**358**

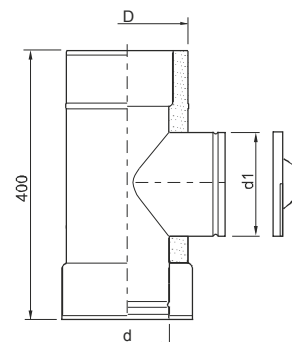
d	D	A	L	INDEX
120	200	350	500	3581200005
130	200	350	500	3581300005
140	200	350	500	3581400005
150	225	400	570	3581500005
160	225	400	570	3581600005
180	250	410	570	3581800005
200	300	500	700	3582000005
225	300	500	700	3582200005
250	350	550	800	3582500005
300	400	600	800	3583000005
350	450	680	900	3583500005
400	500	780	1000	3584000005
450	550	780	1000	3584500005
500	600	860	1100	3585000005



**WYCZYSTKA OKRĄGŁA**

**359**

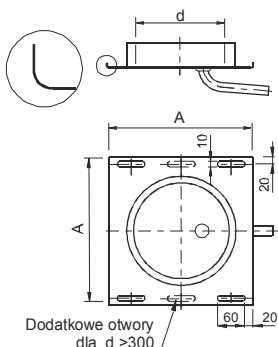
d1	d	D	INDEX
120	120	200	3591200005
130	130	200	3591300005
140	140	200	3591400005
150	150	225	3591500005
160	160	225	3591600005
180	180	250	3591800005
200	200	300	3592000005
225	225	300	3592200005
250	250	350	3592500005
300	300	400	3593000005
350	350	450	3593500005
400	400	500	3594000005
450	450	550	3594500005
500	500	600	3595000005



**ODSKRAPLACZ**

**360**

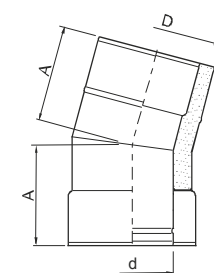
d	D	A	INDEX
120	200	300	3601200005
130	200	300	3601300005
140	200	300	3601400005
150	225	300	3601500005
160	225	300	3601600005
180	250	350	3601800005
200	300	400	3602000005
225	300	400	3602200005
250	350	450	3602500005
300	400	500	3603000005
350	450	550	3603500005
400	500	600	3604000005
450	550	650	3604500005
500	600	700	3605000005



**KOLANO 15°**

**361**

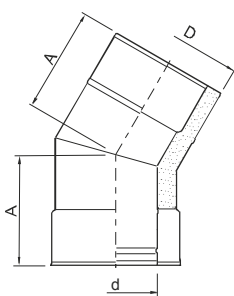
d	D	A	INDEX
120	200	140	3611200005
130	200	140	3611300005
140	200	140	3611400005
150	225	160	3611500005
160	225	160	3611600005
180	250	155	3611800005
200	300	195	3612000005
225	300	195	3612200005
250	350	205	3612500005
300	400	215	3613000005
350	450	240	3613500005
400	500	240	3614000005
450	550	245	3614500005
500	600	245	3615000005



**KOLANO 30°**

**362**

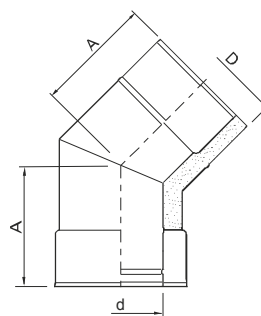
d	D	A	INDEX
120	200	140	3621200005
130	200	140	3621300005
140	200	140	3621400005
150	225	160	3621500005
160	225	160	3621600005
180	250	155	3621800005
200	300	195	3622000005
225	300	195	3622200005
250	350	205	3622500005
300	400	215	3623000005
350	450	240	3623500005
400	500	240	3624000005
450	550	245	3624500005
500	600	245	3625000005



**KOLANO 45°**

**363**

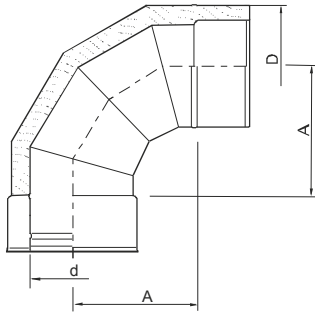
d	D	A	INDEX
120	200	125	3631200005
130	200	125	3631300005
140	200	125	3631400005
150	225	130	3631500005
160	225	130	3631600005
180	250	135	3631800005
200	300	160	3632000005
225	300	160	3632200005
250	350	170	3632500005
300	400	180	3633000005
350	450	190	3633500005
400	500	200	3634000005
450	550	210	3634500005
500	600	220	3635000005



## KOLANO 93°

364

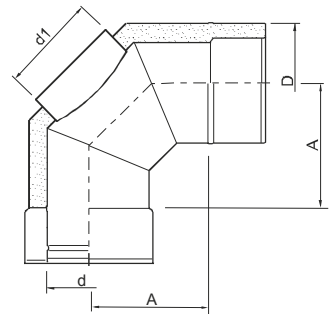
d	D	A	INDEX
120	200	155	3641200005
130	200	155	3641300005
140	200	155	3641400005
150	225	165	3641500005
160	225	165	3641600005
180	250	180	3641800005
200	300	220	3642000005
225	300	220	3642200005
250	350	250	3642500005
300	400	280	3643000005
350	450	305	3643500005
400	500	325	3644000005
450	550	355	3644500005
500	600	380	3645000005



## KOLANO Z WYCZYSTKĄ OKRĄGLĄ

365

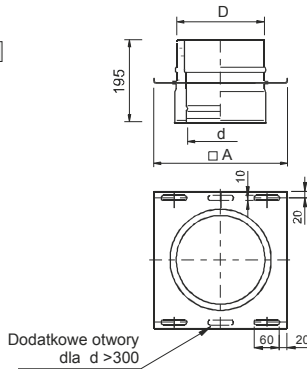
d1	d	D	A	INDEX
120	200	200	200	3651200005
130	200	200	200	3651300005
140	200	200	200	3651400005
150	225	200	200	3651500005
160	225	200	200	3651600005
180	250	205	205	3651800005
200	300	215	215	3652000005
225	300	215	215	3652200005
250	350	255	255	3652500005
300	400	295	295	3653000005
350	450	300	300	3653500005
400	500	340	340	3654000005
450	550	360	360	3654500005
500	600	390	390	3655000005



## PODPORA PRZEJŚCIOWA

366

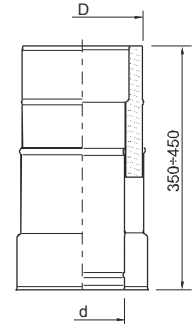
d	D	A	INDEX
120	200	300	3661200005
130	200	300	3661300005
140	200	300	3661400005
150	225	300	3661500005
160	225	300	3661600005
180	250	D+100	3661800005
200	300	D+100	3662000005
225	300	D+100	3662200005
250	350	D+100	3662500005
300	400	D+100	3663000005
350	450	D+100	3663500005
400	500	D+100	3664000005
450	550	D+100	3664500005
500	600	D+100	3665000005



## TELESKOP

367

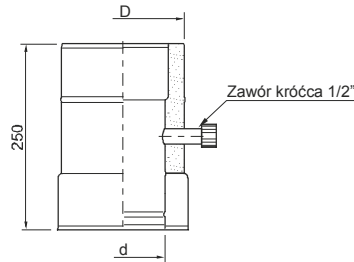
d	D	INDEX
120	200	3671200005
130	200	3671300005
140	200	3671400005
150	225	3671500005
160	225	3671600005
180	250	3671800005
200	300	3672000005
225	300	3672200005
250	350	3672500005
300	400	3673000005
350	450	3673500005
400	500	3674000005
450	550	3674500005
500	600	3675000005



## KRÓCIEC POMIAROWY 25

368

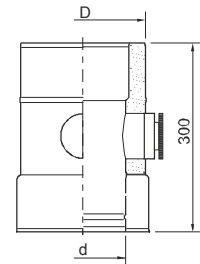
d	D	INDEX
120	200	3681200005
130	200	3681300005
140	200	3681400005
150	225	3681500005
160	225	3681600005
180	250	3681800005
200	300	3682000005
225	300	3682200005
250	350	3682500005
300	400	3683000005
350	450	3683500005
400	500	3684000005
450	550	3684500005
500	600	3685000005



## KRÓCIEC POMIAROWY 64

369

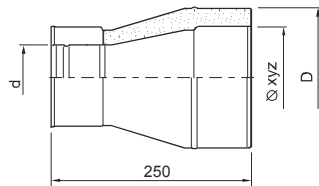
d	D	INDEX
120	200	3691200005
130	200	3691300005
140	200	3691400005
150	225	3691500005
160	225	3691600005
180	250	3691800005
200	300	3692000005
225	300	3692200005
250	350	3692500005
300	400	3693000005
350	450	3693500005
400	500	3694000005
450	550	3694500005
500	600	3695000005



## REDUKCJA

370

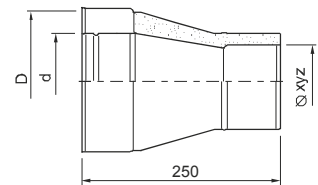
d	D	INDEX
120	200	370120xyz5
130	200	370130xyz5
140	200	370140xyz5
150	225	370150xyz5
160	225	370160xyz5
180	250	370180xyz5
200	300	370200xyz5
225	300	370220xyz5
250	350	370250xyz5
300	400	370300xyz5
350	450	370350xyz5
400	500	370400xyz5
450	550	370450xyz5
500	600	370500xyz5



## REDUKCJA ODWROTNA

371

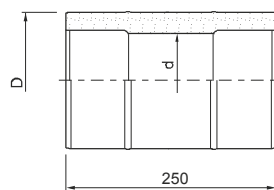
d	D	INDEX
120	200	371120xyz5
130	200	371130xyz5
140	200	371140xyz5
150	225	371150xyz5
160	225	371160xyz5
180	250	371180xyz5
200	300	371200xyz5
225	300	371220xyz5
250	350	371250xyz5
300	400	371300xyz5
350	450	371350xyz5
400	500	371400xyz5
450	550	371450xyz5
500	600	371500xyz5



## ZŁĄCZKA DWUKIELICHOWA

372

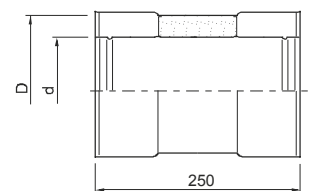
d	D	INDEX
120	200	3721200005
130	200	3721300005
140	200	3721400005
150	225	3721500005
160	225	3721600005
180	250	3721800005
200	300	3722000005
225	300	3722200005
250	350	3722500005
300	400	3723000005
350	450	3723500005
400	500	3724000005
450	550	3724500005
500	600	3725000005



## ZŁĄCZKA DWUNYPLOWA

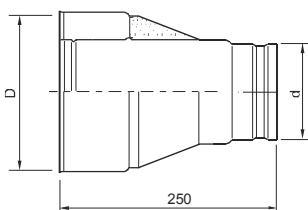
373

d	D	INDEX
120	200	3731200005
130	200	3731300005
140	200	3731400005
150	225	3731500005
160	225	3731600005
180	250	3731800005
200	300	3732000005
225	300	3732200005
250	350	3732500005
300	400	3733000005
350	450	3733500005
400	500	3734000005
450	550	3734500005
500	600	3735000005



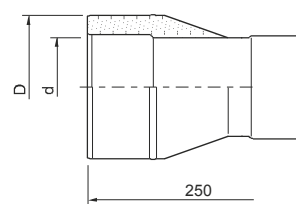
### ZAKOŃCZENIE NYPEL - NYPEL 374

d	D	INDEX
120	200	3741200005
130	200	3741300005
140	200	3741400005
150	225	3741500005
160	225	3741600005
180	250	3741800005
200	300	3742000005
225	300	3742200005
250	350	3742500005
300	400	3743000005
350	450	3743500005
400	500	3744000005
450	550	3744500005
500	600	3745000005



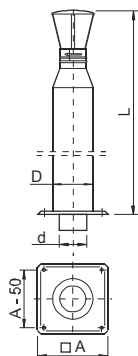
### ZAKOŃCZENIE KIELICH - KIELICH 375

d	D	INDEX
120	200	3751200005
130	200	3751300005
140	200	3751400005
150	225	3751500005
160	225	3751600005
180	250	3751800005
200	300	3752000005
225	300	3752200005
250	350	3752500005
300	400	3753000005
350	450	3753500005
400	500	3754000005
450	550	3754500005
500	600	3755000005



### PRZEDŁUŻKA do komina 376

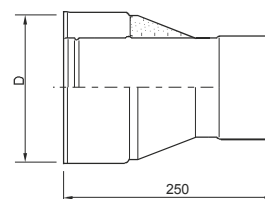
d	D	A	L	INDEX	
120	200	320	1280	780	3761200005
130	200	320	1280	780	3761300005
140	200	320	1280	780	3761400005
150	225	320	1280	780	3761500005
160	225	320	1280	780	3761600005
180	250	400	1280	780	3761800005
200	300	400	1280	780	3762000005
225	300	400	1280	780	3762200005
250	350	450	1280	780	3762500005



Dla L=1280 indeks jest np. 376 120 0005  
a dla L=780 indeks jest 376 120 1005

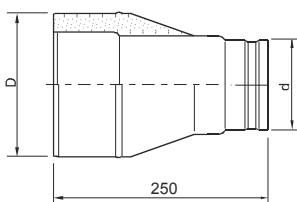
### ZAKOŃCZENIE NYPEL - KIELICH 377

d	D	INDEX
120	200	3771200005
130	200	3771300005
140	200	3771400005
150	225	3771500005
160	225	3771600005
180	250	3771800005
200	300	3772000005
225	300	3772200005
250	350	3772500005
300	400	3773000005
350	450	3773500005
400	500	3774000005
450	550	3774500005
500	600	3775000005



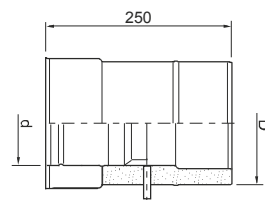
### ZAKOŃCZENIE KIELICH - NYPEL 378

d	D	INDEX
120	200	3781200005
130	200	3781300005
140	200	3781400005
150	225	3781500005
160	225	3781600005
180	250	3781800005
200	300	3782000005
225	300	3782200005
250	350	3782500005
300	400	3783000005
350	450	3783500005
400	500	3784000005
450	550	3784500005
500	600	3785000005



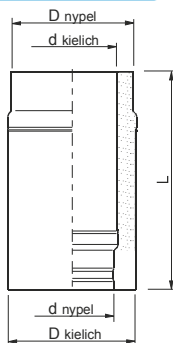
### ODPŁYW KONDENSATU 379

d	D	INDEX
120	200	3791200005
130	200	3791300005
140	200	3791400005
150	225	3791500005
160	225	3791600005
180	250	3791800005
200	300	3792000005
225	300	3792200005
250	350	3792500005
300	400	3793000005
350	450	3793500005
400	500	3794000005
450	550	3794500005
500	600	3795000005



### Rura dystansowa 380

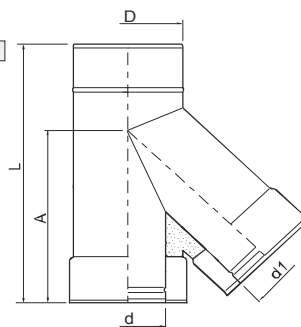
d	D	INDEX	
		L=500	L=1000
120	200	3801200005	3801201005
130	200	3801300005	3801301005
140	200	3801400005	3801401005
150	225	3801500005	3801501005
160	225	3801600005	3801601005
180	250	3801800005	3801801005
200	300	3802000005	3802001005
225	300	3802200005	3802201005
250	350	3802500005	3802501005
300	400	3803000005	3803001005
350	450	3803500005	3803501005
400	500	3804000005	3804001005
450	550	3804500005	3804501005
500	600	3805000005	3805001005



\* - długość dopasować przycinając odpowiednio rurę wew. izew.

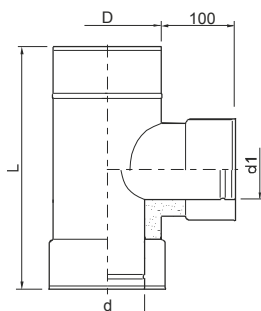
### TRÓJNIK REDUKCYJNY 45° 381

d	D	d1	A	L	INDEX
120	200	350	500	381120xyz5	
130	200	350	500	381130xyz5	
140	200	350	500	381140xyz5	
150	225	400	570	381150xyz5	
160	225	400	570	381160xyz5	
180	250	410	570	381180xyz5	
200	300	500	700	381200xyz5	
225	300	500	700	381220xyz5	
250	350	550	800	381250xyz5	
300	400	600	800	381300xyz5	
350	450	680	900	381350xyz5	
400	500	780	1000	381400xyz5	
450	550	780	1000	381450xyz5	
500	600	860	1100	381500xyz5	



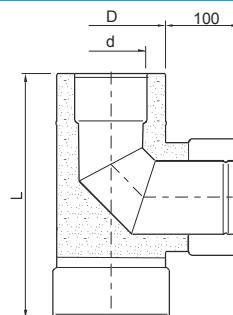
### TRÓJNIK REDUKCYJNY 90° 382

d	D	d1	L	INDEX
120	200	400	382120xyz5	
130	200	400	382130xyz5	
140	200	400	382140xyz5	
150	225	450	382150xyz5	
160	225	450	382160xyz5	
180	250	450	382180xyz5	
200	300	500	382200xyz5	
225	300	500	382220xyz5	
250	350	550	382250xyz5	
300	400	600	382300xyz5	
350	450	650	382350xyz5	
400	500	700	382400xyz5	
450	550	750	382450xyz5	
500	600	800	382500xyz5	



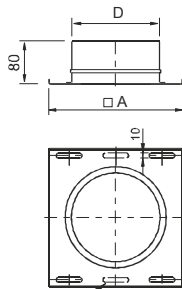
### KOLANO-TRÓJNIK 90° 383

d	D	L	INDEX
120	200	400	3831200005
130	200	400	3831300005
140	200	400	3831400005
150	225	450	3831500005
160	225	450	3831600005
180	250	450	3831800005
200	300	500	3832000005
225	300	500	3832200005
250	350	550	3832500005
300	400	600	3833000005
350	450	650	3833500005
400	500	700	3834000005
450	550	750	3834500005
500	600	800	3835000005



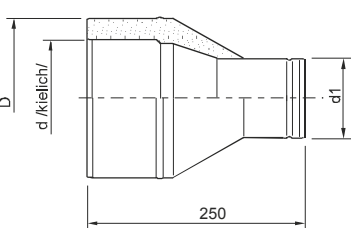
## PŁYTA DO KOLANO-TRÓJNIK 90° 384

d	D	A	INDEX
120	200	300	3841200005
130	200	300	3841300005
140	200	300	3841400005
150	225	300	3841500005
160	225	300	3841600005
180	250	D+100	3841800005
200	300	D+100	3842000005
225	300	D+100	3842200005
250	350	D+100	3842500005
300	400	D+100	3843000005
350	450	D+100	3843500005
400	500	D+100	3844000005
450	550	D+100	3844500005
500	600	D+100	3845000005



## ZAKOŃCZENIE RED. KIELICH-NYPEL TURBO 391

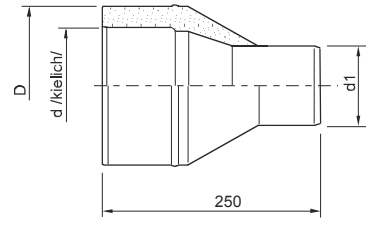
d	D	INDEX
120	200	391120xyz5
130	200	391130xyz5
140	200	391140xyz5
150	225	391150xyz5
160	225	391160xyz5
180	250	391180xyz5
200	300	391200xyz5
225	300	391220xyz5
250	350	391250xyz5
300	400	391300xyz5
350	450	391350xyz5
400	500	391400xyz5
450	550	391450xyz5
500	600	391500xyz5



xyz / d1/ - średnica zgodnie z zamówieniem

## ZAKOŃCZENIE RED. KIELICH-NYPEL TURBO 391

d	D	INDEX
120	200	391120xyz5T
130	200	391130xyz5T
140	200	391140xyz5T
150	225	391150xyz5T
160	225	391160xyz5T
180	250	391180xyz5T
200	300	391200xyz5T
225	300	391220xyz5T
250	350	391250xyz5T
300	400	391300xyz5T
350	450	391350xyz5T
400	500	391400xyz5T
450	550	391450xyz5T
500	600	391500xyz5T

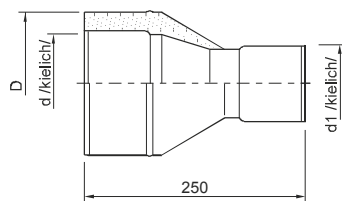


xyz / d1/ - średnica zgodnie z zamówieniem

d1	60	80	100	110	125	150
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## ZAKOŃCZENIE RED. KIELICH-KIELICH TURBO 392

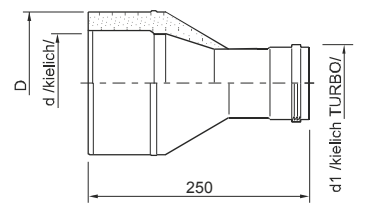
d	D	INDEX
120	200	392120xyz5
130	200	392130xyz5
140	200	392140xyz5
150	225	392150xyz5
160	225	392160xyz5
180	250	392180xyz5
200	300	392200xyz5
225	300	392220xyz5
250	350	392250xyz5
300	400	392300xyz5
350	450	392350xyz5
400	500	392400xyz5
450	550	392450xyz5
500	600	392500xyz5



xyz / d1/ - średnica zgodnie z zamówieniem

## ZAKOŃCZENIE RED. KIELICH-KIELICH TURBO 392

d	D	INDEX
120	200	392120xyz5T
130	200	392130xyz5T
140	200	392140xyz5T
150	225	392150xyz5T
160	225	392160xyz5T
180	250	392180xyz5T
200	300	392200xyz5T
225	300	392220xyz5T
250	350	392250xyz5T
300	400	392300xyz5T
350	450	392350xyz5T
400	500	392400xyz5T
450	550	392450xyz5T
500	600	392500xyz5T

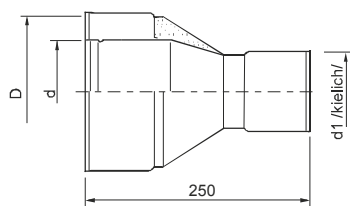


xyz / d1/ - średnica zgodnie z zamówieniem

d1	60	80	100	110	125	150
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## ZAKOŃCZENIE RED. NYPEL-KIELICH TURBO 393

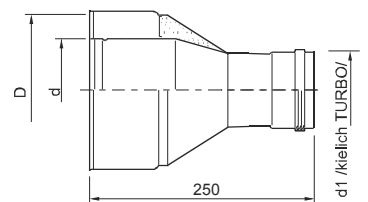
d	D	INDEX
120	200	393120xyz5
130	200	393130xyz5
140	200	393140xyz5
150	225	393150xyz5
160	225	393160xyz5
180	250	393180xyz5
200	300	393200xyz5
225	300	393220xyz5
250	350	393250xyz5
300	400	393300xyz5
350	450	393350xyz5
400	500	393400xyz5
450	550	393450xyz5
500	600	393500xyz5



xyz / d1/ - średnica zgodnie z zamówieniem

## ZAKOŃCZENIE RED. NYPEL-KIELICH TURBO 393

d	D	INDEX
120	200	393120xyz5T
130	200	393130xyz5T
140	200	393140xyz5T
150	225	393150xyz5T
160	225	393160xyz5T
180	250	393180xyz5T
200	300	393200xyz5T
225	300	393220xyz5T
250	350	393250xyz5T
300	400	393300xyz5T
350	450	393350xyz5T
400	500	393400xyz5T
450	550	393450xyz5T
500	600	393500xyz5T

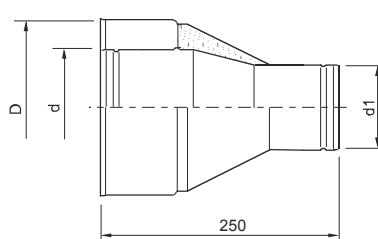


xyz / d1/ - średnica zgodnie z zamówieniem

d1	60	80	100	110	125	150
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## ZAKOŃCZENIE RED. NYPEL-NYPEL TURBO 394

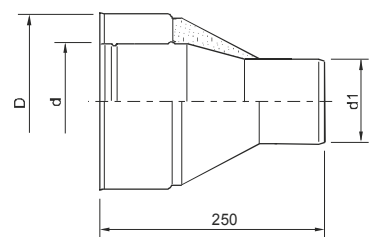
d	D	INDEX
120	200	394120xyz5
130	200	394130xyz5
140	200	394140xyz5
150	225	394150xyz5
160	225	394160xyz5
180	250	394180xyz5
200	300	394200xyz5
225	300	394220xyz5
250	350	394250xyz5
300	400	394300xyz5
350	450	394350xyz5
400	500	394400xyz5
450	550	394450xyz5
500	600	394500xyz5



xyz / d1/ - średnica zgodnie z zamówieniem

## ZAKOŃCZENIE RED. NYPEL-NYPEL TURBO 394

d	D	INDEX
120	200	394120xyz5T
130	200	394130xyz5T
140	200	394140xyz5T
150	225	394150xyz5T
160	225	394160xyz5T
180	250	394180xyz5T
200	300	394200xyz5T
225	300	394220xyz5T
250	350	394250xyz5T
300	400	394300xyz5T
350	450	394350xyz5T
400	500	394400xyz5T
450	550	394450xyz5T
500	600	394500xyz5T



xyz / d1/ - średnica zgodnie z zamówieniem

d1	60	80	100	110	125	150
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## ELEMENT NIETYPOWY

999

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



PRZEZNACZENIE:

odprowadzenie spalin na zewnątrz budynku z kotłów kondensacyjnych opalanych gazem lub olejem opałowym o maksymalnej temperaturze spalin 120°C

BUDOWA RUR I KSZTAŁTEK:

elementy spalinowe izolowane wełną mineralną o grubości 20÷30 mm,

ZAKRES ŚREDNIC:

- dwuścienne izolowane 120/180 ÷ 500/550 mm

PALIWO:

Gaz lub olej opałowy

GATUNEK I GRUBOŚĆ MATERIAŁ:

stal nierdzewna i kwasoodporna 1.4301 /opcjonalnie 1.4404, 1.4521/ o grubości 0,5÷0,8 mm

ODPORNOŚĆ NA KOROZJĘ:

Vm \V2 \V3

ODLEGŁOŚĆ OD MATERIAŁÓW PALNYCH:

50 mm

KLASA TEMPERATURY:

T120 - 120°C (dotyczy temperatury spalin)

KLASA CIŚNIENIA:

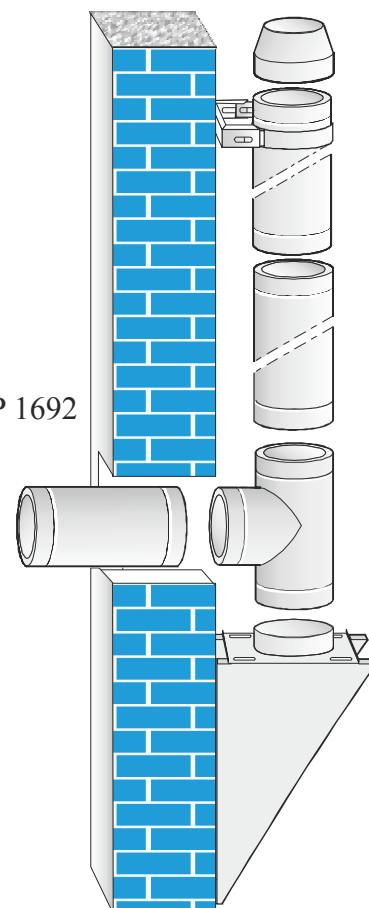
klasa P1 – 200 Pa (spalinowy)

SPOSÓB PRACY KOMINA:

nadciśnieniowy (szczelność połączeń zapewniają uszczelki EPDM typ EP 1692 umieszczone w połączeniach kielichowych)

ODPORNOŚĆ NA DZIAŁANIE KONDENSATU:

W/D

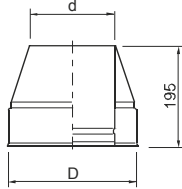




### USTNIK invest

351

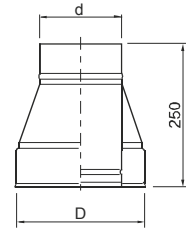
d	D	INDEX
120	180	3511200007
130	180	3511300007
140	180	3511400007
150	200	3511500007
160	200	3511600007
180	225	3511800007
200	250	3512000007
225	270	3512200007
250	300	3512500007
300	350	3513000007
350	400	3513500007
400	450	3514000007
450	500	3514500007
500	550	3515000007



### USTNIK POD PARASOL invest

352

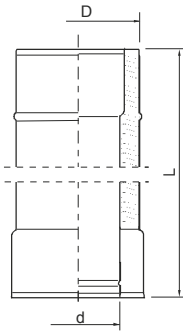
d	D	INDEX
120	180	3521200007
130	180	3521300007
140	180	3521400007
150	200	3521500007
160	200	3521600007
180	225	3521800007
200	250	3522000007
225	270	3522200007
250	300	3522500007
300	350	3523000007
350	400	3523500007
400	450	3524000007
450	500	3524500007
500	550	3525000007



### RURA invest

353, 354, 355, 356

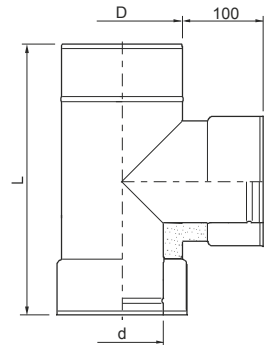
INDEX					
d	D	L 1000	L 500	L 330	L 250
120	180	3531200007	3541200007	3551200007	3561200007
130	180	3531300007	3541300007	3551300007	3561300007
140	180	3531400007	3541400007	3551400007	3561400007
150	200	3531500007	3541500007	3551500007	3561500007
160	200	3531600007	3541600007	3551600007	3561600007
180	225	3531800007	3541800007	3551800007	3561800007
200	250	3532000007	3542000007	3552000007	3562000007
225	270	3532200007	3542200007	3552200007	3562200007
250	300	3532500007	3542500007	3552500007	3562500007
300	350	3533000007	3543000007	3553000007	3563000007
350	400	3533500007	3543500007	3553500007	3563500007
400	450	3534000007	3544000007	3554000007	3564000007
450	500	3534500007	3544500007	3554500007	3564500007
500	550	3535000007	3545000007	3555000007	3565000007



### TRÓJNIK 90° invest

357

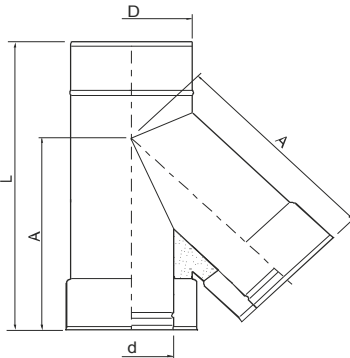
d	D	L	INDEX
120	180	400	3571200007
130	180	400	3571300007
140	180	400	3571400007
150	200	400	3571500007
160	200	400	3571600007
180	225	450	3571800007
200	250	450	3572000007
225	270	500	3572200007
250	300	500	3572500007
300	350	550	3573000007
350	400	600	3573500007
400	450	650	3574000007
450	500	700	3574500007
500	550	750	3575000007



### TRÓJNIK 45° invest

358

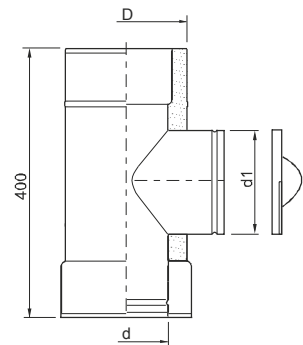
d	D	A	L	INDEX
120	180	350	500	3581200007
130	180	350	500	3581300007
140	180	350	500	3581400007
150	200	350	500	3581500007
160	200	350	500	3581600007
180	225	400	570	3581800007
200	250	400	570	3582000007
225	270	420	570	3582200007
250	300	500	700	3582500007
300	350	550	800	3583000007
350	400	600	800	3583500007
400	450	680	900	3584000007
450	500	780	1000	3584500007
500	550	760	1000	3585000007



### WYCZYSTKA OKRĄGŁA invest

359

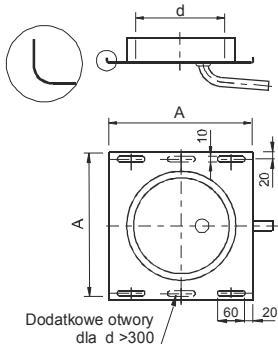
d1	d	D	INDEX
120	120	180	3591200007
130	130	180	3591300007
140	140	180	3591400007
150	150	200	3591500007
160	160	200	3591600007
180	180	225	3591800007
200	200	250	3592000007
225	225	270	3592200007
250	250	300	3592500007
300	300	350	3593000007
350	350	400	3593500007
400	400	450	3594000007
450	450	500	3594500007
500	500	550	3595000007



### ODSKRAPLACZ invest

360

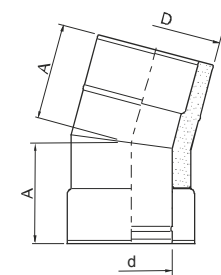
d	D	A	INDEX
120	180	300	3601200007
130	180	300	3601300007
140	180	300	3601400007
150	200	300	3601500007
160	200	300	3601600007
180	225	300	3601800007
200	250	350	3602000007
225	270	370	3602200007
250	300	400	3602500007
300	350	450	3603000007
350	400	500	3603500007
400	450	550	3604000007
450	500	600	3604500007
500	550	650	3605000007



### KOLANO 15° invest

361

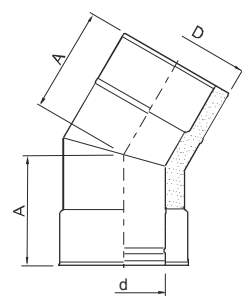
d	D	A	INDEX
120	180	125	3611200007
130	180	125	3611300007
140	180	125	3611400007
150	200	125	3611500007
160	200	125	3611600007
180	225	130	3611800007
200	250	135	3612000007
225	270	145	3612200007
250	300	160	3612500007
300	350	170	3613000007
350	400	180	3613500007
400	450	190	3614000007
450	500	200	3614500007
500	550	210	3615000007



### KOLANO 30° invest

362

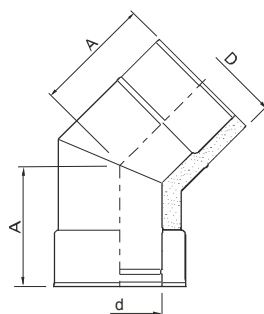
d	D	A	INDEX
120	180	125	3621200007
130	180	125	3621300007
140	180	125	3621400007
150	200	125	3621500007
160	200	125	3621600007
180	225	130	3621800007
200	250	135	3622000007
225	270	145	3622200007
250	300	160	3622500007
300	350	170	3623000007
350	400	180	3623500007
400	450	190	3624000007
450	500	200	3624500007
500	550	210	3625000007



### KOLANO 45° invest

363

d	D	A	INDEX
120	180	125	3631200007
130	180	125	3631300007
140	180	125	3631400007
150	200	125	3631500007
160	200	125	3631600007
180	225	130	3631800007
200	250	135	3632000007
225	270	145	3632200007
250	300	160	3632500007
300	350	170	3633000007
350	400	180	3633500007
400	450	190	3634000007
450	500	200	3634500007
500	550	210	3635000007

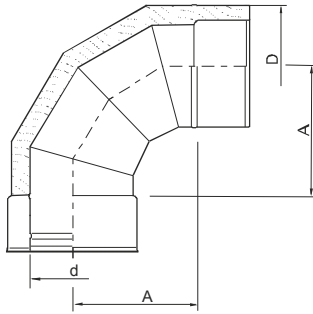




## KOLANO 93° invest

364

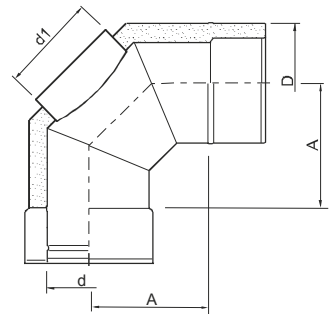
d	D	A	INDEX
120	180	155	3641200007
130	180	155	3641300007
140	180	155	3641400007
150	200	165	3641500007
160	200	165	3641600007
180	225	180	3641800007
200	250	200	3642000007
225	270	210	3642200007
250	300	215	3642500007
300	350	250	3643000007
350	400	280	3643500007
400	450	305	3644000007
450	500	325	3644500007
500	550	355	3645000007



## KOLANO Z WYCZYTKĄ OKRĄGLĄ invest

365

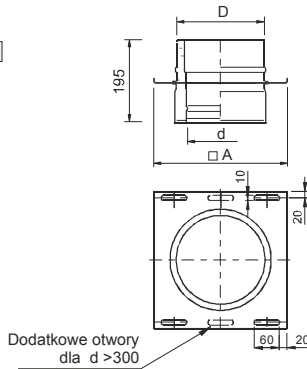
d1	d	D	A	INDEX
120	120	180	200	3651200007
130	130	180	200	3651300007
140	140	180	200	3651400007
150	150	200	200	3651500007
160	160	200	200	3651600007
180	180	225	200	3651800007
200	200	250	205	3652000007
225	225	270	210	3652200007
250	250	300	215	3652500007
300	300	350	255	3653000007
350	350	400	295	3653500007
400	400	450	300	3654000007
450	450	500	340	3654500007
500	500	550	360	3655000007



## PODPORA PRZEJŚCIOWA invest

366

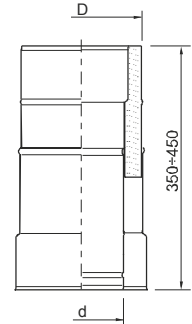
d	D	A	INDEX
120	180	300	3661200007
130	180	300	3661300007
140	180	300	3661400007
150	200	300	3661500007
160	200	300	3661600007
180	225	300	3661800007
200	250	D+100	3662000007
225	270	D+100	3662200007
250	300	D+100	3662500007
300	350	D+100	3663000007
350	400	D+100	3663500007
400	450	D+100	3664000007
450	500	D+100	3664500007
500	550	D+100	3665000007



## TELESKOP invest

367

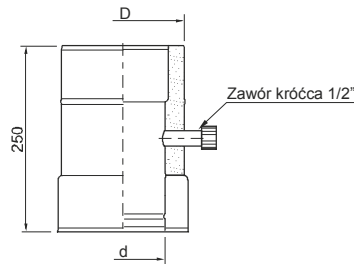
d	D	INDEX
120	180	3671200007
130	180	3671300007
140	180	3671400007
150	200	3671500007
160	200	3671600007
180	225	3671800007
200	250	3672000007
225	270	3672200007
250	300	3672500007
300	350	3673000007
350	400	3673500007
400	450	3674000007
450	500	3674500007
500	550	3675000007



## KRÓCIEC POMIAROWY 25 invest

368

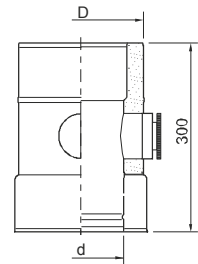
d	D	INDEX
120	180	3681200007
130	180	3681300007
140	180	3681400007
150	200	3681500007
160	200	3681600007
180	225	3681800007
200	250	3682000007
225	270	3682200007
250	300	3682500007
300	350	3683000007
350	400	3683500007
400	450	3684000007
450	500	3684500007
500	550	3685000007



## KRÓCIEC POMIAROWY 64 invest

369

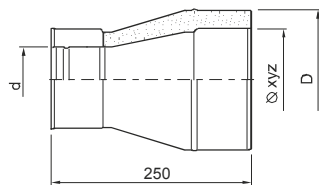
d	D	INDEX
120	180	3691200007
130	180	3691300007
140	180	3691400007
150	200	3691500007
160	200	3691600007
180	225	3691800007
200	250	3692000007
225	270	3692200007
250	300	3692500007
300	350	3693000007
350	400	3693500007
400	450	3694000007
450	500	3694500007
500	550	3695000007



## REDUKCJA invest

370

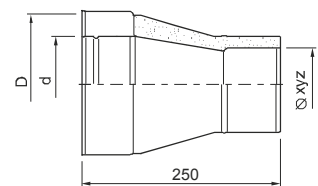
d	D	INDEX
120	180	370120xyz7
130	180	370130xyz7
140	180	370140xyz7
150	200	370150xyz7
160	200	370160xyz7
180	225	370180xyz7
200	250	370200xyz7
225	270	370220xyz7
250	300	370250xyz7
300	350	370300xyz7
350	400	370350xyz7
400	450	370400xyz7
450	500	370450xyz7
500	550	370500xyz7



## REDUKCJA ODWROTNA invest

371

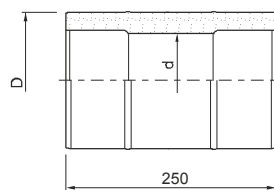
d	D	INDEX
120	180	371120xyz7
130	180	371130xyz7
140	180	371140xyz7
150	200	371150xyz7
160	200	371160xyz7
180	225	371180xyz7
200	250	371200xyz7
225	270	371220xyz7
250	300	371250xyz7
300	350	371300xyz7
350	400	371350xyz7
400	450	371400xyz7
450	500	371450xyz7
500	550	371500xyz7



## ZŁĄCZKA DWUKIELICHOWA invest

372

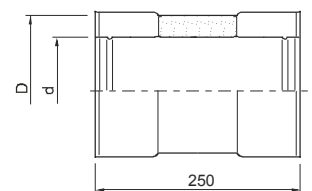
d	D	INDEX
120	180	3721200007
130	180	3721300007
140	180	3721400007
150	200	3721500007
160	200	3721600007
180	225	3721800007
200	250	3722000007
225	270	3722200007
250	300	3722500007
300	350	3723000007
350	400	3723500007
400	450	3724000007
450	500	3724500007
500	550	3725000007



## ZŁĄCZKA DWUNY PŁOWA invest

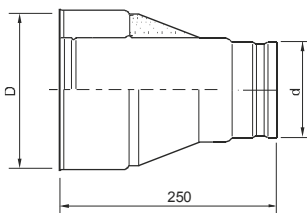
373

d	D	INDEX
120	180	3731200007
130	180	3731300007
140	180	3731400007
150	200	3731500007
160	200	3731600007
180	225	3731800007
200	250	3732000007
225	270	3732200007
250	300	3732500007
300	350	3733000007
350	400	3733500007
400	450	3734000007
450	500	3734500007
500	550	3735000007



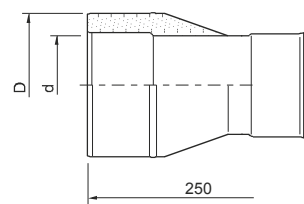
### ZAKOŃCZENIE NYPEL - NYPEL invest 374

d	D	INDEX
120	180	3741200007
130	180	3741300007
140	180	3741400007
150	200	3741500007
160	200	3741600007
180	225	3741800007
200	250	3742000007
225	270	3742200007
250	300	3742500007
300	350	3743000007
350	400	3743500007
400	450	3744000007
450	500	3744500007
500	550	3745000007



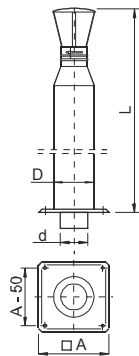
### ZAKOŃCZENIE KIELICH - KIELICH invest 375

d	D	INDEX
120	180	3751200007
130	180	3751300007
140	180	3751400007
150	200	3751500007
160	200	3751600007
180	225	3751800007
200	250	3752000007
225	270	3752200007
250	300	3752500007
300	350	3753000007
350	400	3753500007
400	450	3754000007
450	500	3754500007
500	550	3755000007



### PRZEDŁUŻKA DO KOMINA invest 376

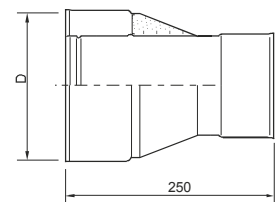
d	D	A	L	INDEX	
120	180	320	1280	780	3761200007
130	180	320	1280	780	3761300007
140	180	320	1280	780	3761400007
150	200	320	1280	780	3761500007
160	200	320	1280	780	3761600007
180	225	400	1280	780	3761800007
200	250	400	1280	780	3762000007
225	270	400	1280	780	3762200007
250	300	450	1280	780	3762500007



Dla L=1280 indeks jest np. 376 120 0007  
a dla L=780 indeks jest 376 120 1007

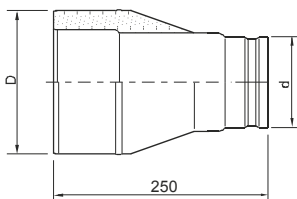
### ZAKOŃCZENIE NYPEL - KIELICH invest 377

d	D	INDEX
120	180	3771200007
130	180	3771300007
140	180	3771400007
150	200	3771500007
160	200	3771600007
180	225	3771800007
200	250	3772000007
225	270	3772200007
250	300	3772500007
300	350	3773000007
350	400	3773500007
400	450	3774000007
450	500	3774500007
500	550	3775000007



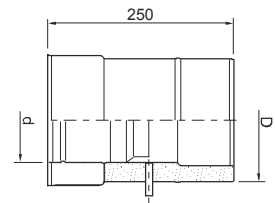
### ZAKOŃCZENIE KIELICH - NYPEL invest 378

d	D	INDEX
120	180	3781200007
130	180	3781300007
140	180	3781400007
150	200	3781500007
160	200	3781600007
180	225	3781800007
200	250	3782000007
225	270	3782200007
250	300	3782500007
300	350	3783000007
350	400	3783500007
400	450	3784000007
450	500	3784500007
500	550	3785000007



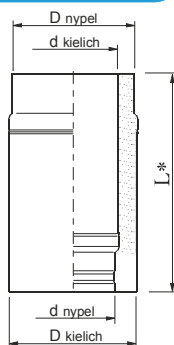
### ODPŁYW KONDENSATU invest 379

d	D	INDEX
120	180	3791200007
130	180	3791300007
140	180	3791400007
150	200	3791500007
160	200	3791600007
180	225	3791800007
200	250	3792000007
225	270	3792200007
250	300	3792500007
300	350	3793000007
350	400	3793500007
400	450	3794000007
450	500	3794500007
500	550	3795000007



### RURA DYSTANSOWA invest 380

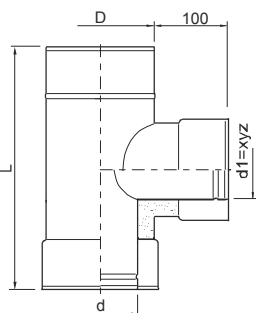
d	D	INDEX	
		L=500	L=1000
120	180	3801200007	3801201007
130	180	3801300007	3801301007
140	180	3801400007	3801401007
150	200	3801500007	3801501007
160	200	3801600007	3801601007
180	225	3801800007	3801801007
200	250	3802000007	3802001007
225	270	3802200007	3802201007
250	300	3802500007	3802501007
300	350	3803000007	3803001007
350	400	3803500007	3803501007
400	450	3804000007	3804001007
450	500	3804500007	3804501007
500	550	3805000007	3805001007



\* - długość dopasować przycinając odpowiednio rurę wew. i zew.

### TRÓJNIK REDUKCYJNY 90° invest 382

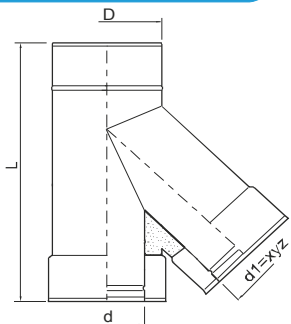
d	D	INDEX
120	180	382120xyz7
130	180	382130xyz7
140	180	382140xyz7
150	200	382150xyz7
160	200	382160xyz7
180	225	382180xyz7
200	250	382200xyz7
225	270	382220xyz7
250	300	382250xyz7
300	350	382300xyz7
350	400	382350xyz7
400	450	382400xyz7
450	500	382450xyz7
500	550	382500xyz7



d1	120	130	140	150	160	180	200	225	250	300	350	400	450			
D1	180	180	180	200	200	225	250	270	300	350	400	450	500			
L	400				450				500				550			

### TRÓJNIK REDUKCYJNY 45° invest 381

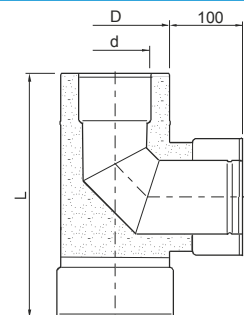
d	D	INDEX
120	180	381120xyz7
130	180	381130xyz7
140	180	381140xyz7
150	200	381150xyz7
160	200	381160xyz7
180	225	381180xyz7
200	250	381200xyz7
225	270	381220xyz7
250	300	381250xyz7
300	350	381300xyz7
350	400	381350xyz7
400	450	381400xyz7
450	500	381450xyz7
500	550	381500xyz7



d1	120	130	140	150	160	180	200	225	250	300	350	400	450			
D1	180	180	180	200	200	225	250	270	300	350	400	450	500			
L	500				570				700				800			

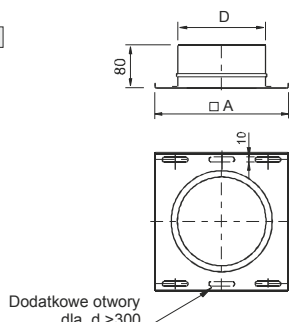
### KOLANO-TRÓJNIK 90° invest 383

d	D	L	INDEX
120	180	400	3831200007
130	180	400	3831300007
140	180	400	3831400007
150	200	400	3831500007
160	200	400	3831600007
180	225	450	3831800007
200	250	450	3832000007
225	270	500	3832200007
250	300	500	3832500007
300	350	550	3833000007
350	400	600	3833500007
400	450	650	3834000007
450	500	700	3834500007
500	550	750	3835000007



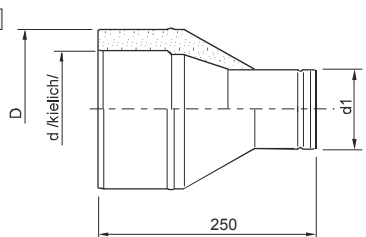
## PŁYTA POD KOLANO-TRÓJNIK 90° invest 384

d	D	A	INDEX
120	180	300	3841200007
130	180	300	3841300007
140	180	300	3841400007
150	200	300	3841500007
160	200	300	3841600007
180	225	300	3841800007
200	250	D+100	3842000007
225	270	D+100	3842200007
250	300	D+100	3842500007
300	350	D+100	3843000007
350	400	D+100	3843500007
400	450	D+100	3844000007
450	500	D+100	3844500007
500	550	D+100	3845000007



## ZAKOŃCZENIE REDUKCYJNE KIELICH-NYPEL invest 391

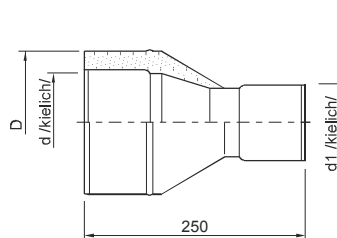
d	D	INDEX
120	180	391120xyz7
130	180	391130xyz7
140	180	391140xyz7
150	200	391150xyz7
160	200	391160xyz7
180	225	391180xyz7
200	250	391200xyz7
225	270	391220xyz7
250	300	391250xyz7
300	350	391300xyz7
350	400	391350xyz7
400	450	391400xyz7
450	500	391450xyz7
500	550	391500xyz7



xyz / d1/ - średnica zgodnie z zamówieniem

## ZAKOŃCZENIE REDUKCYJNE KIELICH-KIELICH invest 392

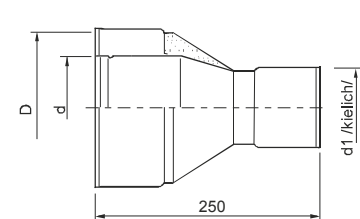
d	D	INDEX
120	180	392120xyz7
130	180	392130xyz7
140	180	392140xyz7
150	200	392150xyz7
160	200	392160xyz7
180	225	392180xyz7
200	250	392200xyz7
225	270	392220xyz7
250	300	392250xyz7
300	350	392300xyz7
350	400	392350xyz7
400	450	392400xyz7
450	500	392450xyz7
500	550	392500xyz7



xyz / d1/ - średnica zgodnie z zamówieniem

## ZAKOŃCZENIE REDUKCYJNE NYPEL-KIELICH invest 393

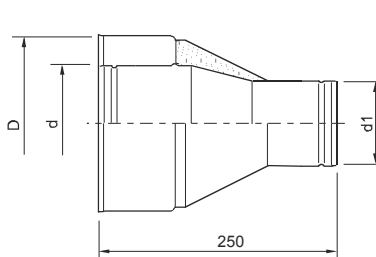
d	D	INDEX
120	180	393120xyz7
130	180	393130xyz7
140	180	393140xyz7
150	200	393150xyz7
160	200	393160xyz7
180	225	393180xyz7
200	250	393200xyz7
225	270	393220xyz7
250	300	393250xyz7
300	350	393300xyz7
350	400	393350xyz7
400	450	393400xyz7
450	500	393450xyz7
500	550	393500xyz7



xyz / d1/ - średnica zgodnie z zamówieniem

## ZAKOŃCZENIE REDUKCYJNE NYPEL-NYPEL invest 394

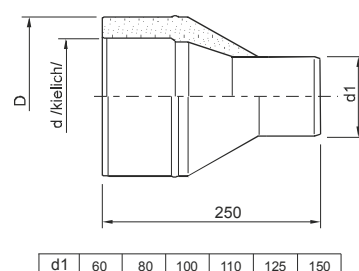
d	D	INDEX
120	180	394120xyz7
130	180	394130xyz7
140	180	394140xyz7
150	200	394150xyz7
160	200	394160xyz7
180	225	394180xyz7
200	250	394200xyz7
225	270	394220xyz7
250	300	394250xyz7
300	350	394300xyz7
350	400	394350xyz7
400	450	394400xyz7
450	500	394450xyz7
500	550	394500xyz7



xyz / d1/ - średnica zgodnie z zamówieniem

## ZAKOŃCZENIE REDUKCYJNE KIELICH-NYPEL invest 391

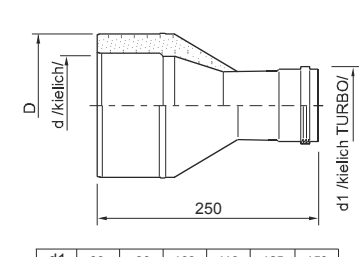
d	D	INDEX
120	180	391120xyz7T
130	180	391130xyz7T
140	180	391140xyz7T
150	200	391150xyz7T
160	200	391160xyz7T
180	225	391180xyz7T
200	250	391200xyz7T
225	270	391220xyz7T
250	300	391250xyz7T
300	350	391300xyz7T
350	400	391350xyz7T
400	450	391400xyz7T
450	500	391450xyz7T
500	550	391500xyz7T



d1 60 80 100 110 125 150  
xyz / d1/ - średnica zgodnie z zamówieniem

## ZAKOŃCZENIE REDUKCYJNE KIELICH-KIELICH invest 392

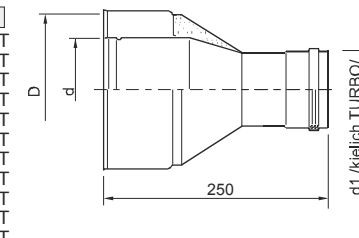
d	D	INDEX
120	180	392120xyz7T
130	180	392130xyz7T
140	180	392140xyz7T
150	200	392150xyz7T
160	200	392160xyz7T
180	225	392180xyz7T
200	250	392200xyz7T
225	270	392220xyz7T
250	300	392250xyz7T
300	350	392300xyz7T
350	400	392350xyz7T
400	450	392400xyz7T
450	500	392450xyz7T
500	550	392500xyz7T



d1 60 80 100 110 125 150  
xyz / d1/ - średnica zgodnie z zamówieniem

## ZAKOŃCZENIE REDUKCYJNE NYPEL-KIELICH invest 393

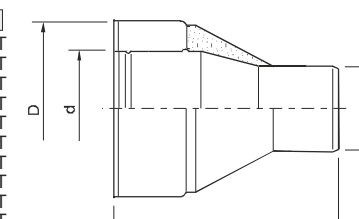
d	D	INDEX
120	180	393120xyz7T
130	180	393130xyz7T
140	180	393140xyz7T
150	200	393150xyz7T
160	200	393160xyz7T
180	225	393180xyz7T
200	250	393200xyz7T
225	270	393220xyz7T
250	300	393250xyz7T
300	350	393300xyz7T
350	400	393350xyz7T
400	450	393400xyz7T
450	500	393450xyz7T
500	550	393500xyz7T



d1 60 80 100 110 125 150  
xyz / d1/ - średnica zgodnie z zamówieniem

## ZAKOŃCZENIE REDUKCYJNE NYPEL-NYPEL invest 394

d	D	INDEX
120	180	394120xyz7T
130	180	394130xyz7T
140	180	394140xyz7T
150	200	394150xyz7T
160	200	394160xyz7T
180	225	394180xyz7T
200	250	394200xyz7T
225	270	394220xyz7T
250	300	394250xyz7T
300	350	394300xyz7T
350	400	394350xyz7T
400	450	394400xyz7T
450	500	394450xyz7T
500	550	394500xyz7T



d1 60 80 100 110 125 150  
xyz / d1/ - średnica zgodnie z zamówieniem

## ELEMENT NIETYPOWY

999

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