

Technical Data - Pressure loss

Ventilation Ductwork

TUBPLA® AIRTIGHT



Ventilation ductwork technology



Index

VENTILATION DUCTWORK DESCRIPTION

REFERENCES

TUBPLA® DUCTS

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03	CIRCULAR DUCT
04	FOLDABLE DUCT
05	ACOUSTIC ATTENUATOR

0501 / T-P 1002 / SU2002

AVAILABLE IN SEPTEMBER 2015

0605 / T-P 1005 / SU2005

PL-0501 / PL-1002

CA55115ES / CA55225ES

TUBPLA® AIRTIGHT COMPONENTS

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07	MIXED CIRCULAR TO RECTANGULAR ADAPTOR
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CRF-100ES / CRF-125ES

RP2211ES

T-1ES / T-2ES

TR-100ES / TR-125ES

TT-2ES / TT-3ES / TT-4ES

Technical Sheet

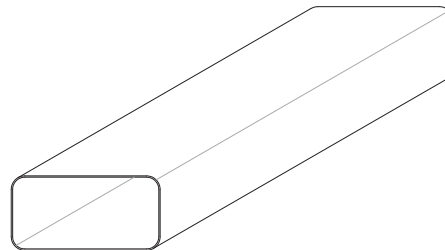
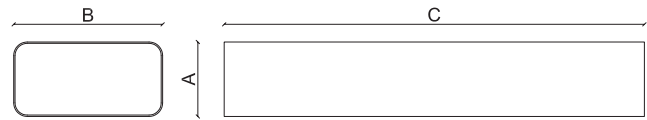
Thermoplastic Ducts

Technical data 0501 / T-P 1002 / SU2002

Rectangular duct of inner smooth surface produced by thermoplastic raw material

CHARACTERISTICS:

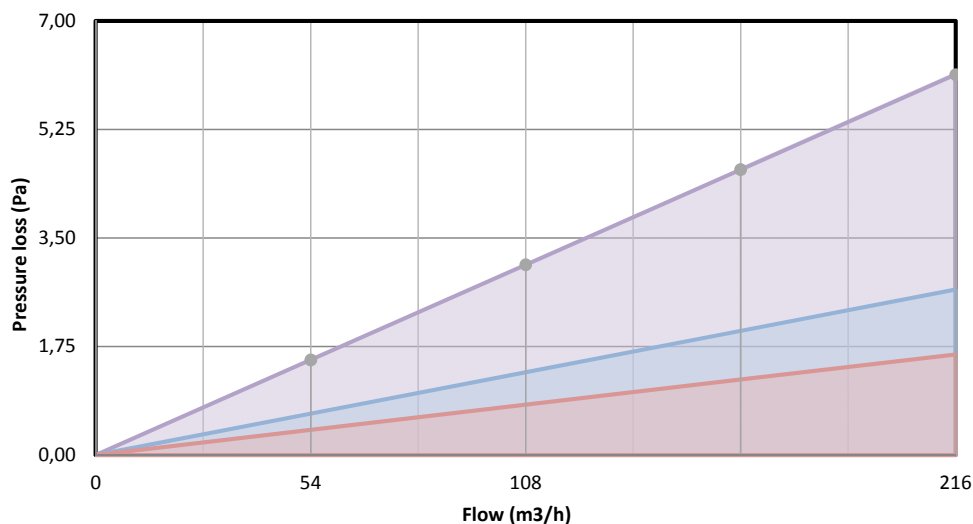
- Fireproof: Self-extinguishing B-S3, d0 according to EN 13501-1:2002
- Maximum temperature: +80°C
- Thermal conductivity 0.0544-0.0662W / (m.k)
- Long-life: more than 20 years of seal's lifetime
- Resistant to UV and to other chemical substances



TECHNICAL SPECIFICATIONS								
Reference	Description	Inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
0501	RECTANGULAR DUCT 55x110	55	110	1000/1500/3000	TPC-rigid	1,5	3,1	6,1
T-P 1002	RECTANGULAR DUCT 55x220	55	220	1000/1500/3000	TPC-rigid	0,7	1,3	2,7
SU2002	RECTANGULAR DUCT 90x180	90	180	1000/1500/3000	TPC-rigid	0,4	0,8	1,6

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



0501
T-P 1002
SU2002

Technical Sheet

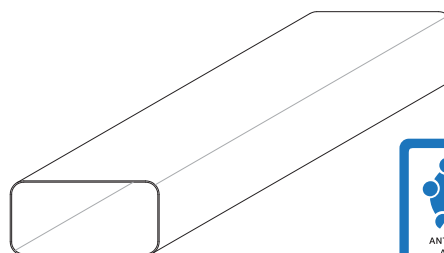
Thermoplastic Ducts

Technical data **Ref. available in September 2015**

Rectangular duct of inner smooth surface produced by thermoplastic raw material **antibacterial and antiestatic**.

CHARACTERISTICS:

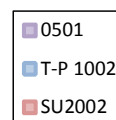
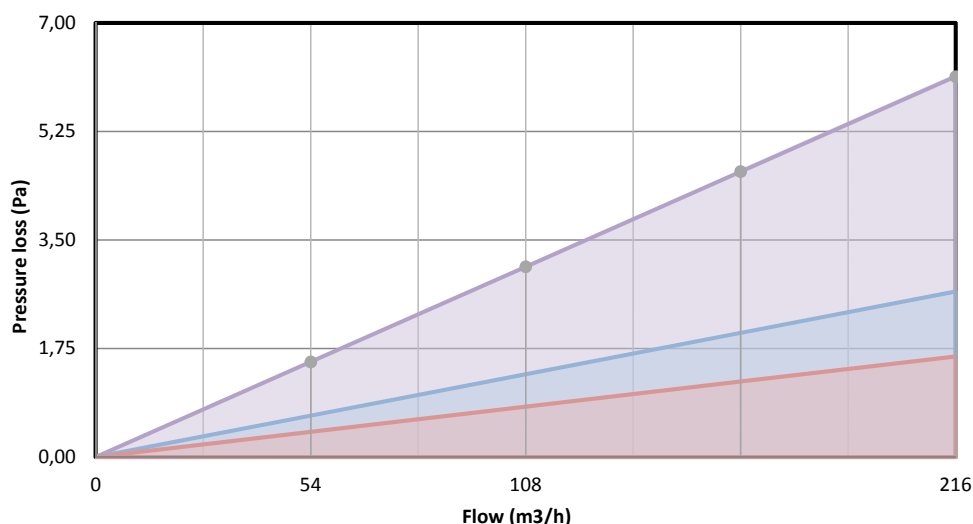
- Fireproof: Self-extinguishing B-S3, d0 according to EN 13501-1:2002
- Maximum temperature: +80°C
- Thermal conductivity 0.0544-0.0662W / (m.k)
- Long-life: more than 20 years of seal's lifetime
- Resistant to UV and to other chemical substances



TECHNICAL SPECIFICATIONS								
Reference	Description	inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
N/D	RECTANGULAR DUCT 55x110	55	110	1000/1500/3000	ABS	1,5	3,1	6,1
N/D	RECTANGULAR DUCT 55x220	55	220	1000/1500/3000	ABS	0,7	1,3	2,7
N/D	RECTANGULAR DUCT 90x180	90	180	1000/1500/3000	ABS	0,4	0,8	1,6

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

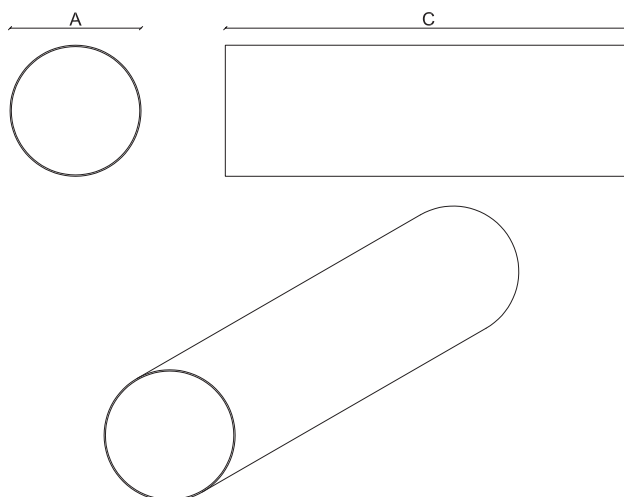
Thermoplastic Ducts

Technical data 0605 / T-P 1005 / SU2005

Circular duct of inner smooth surface produced by thermoplastic raw material.

CHARACTERISTICS:

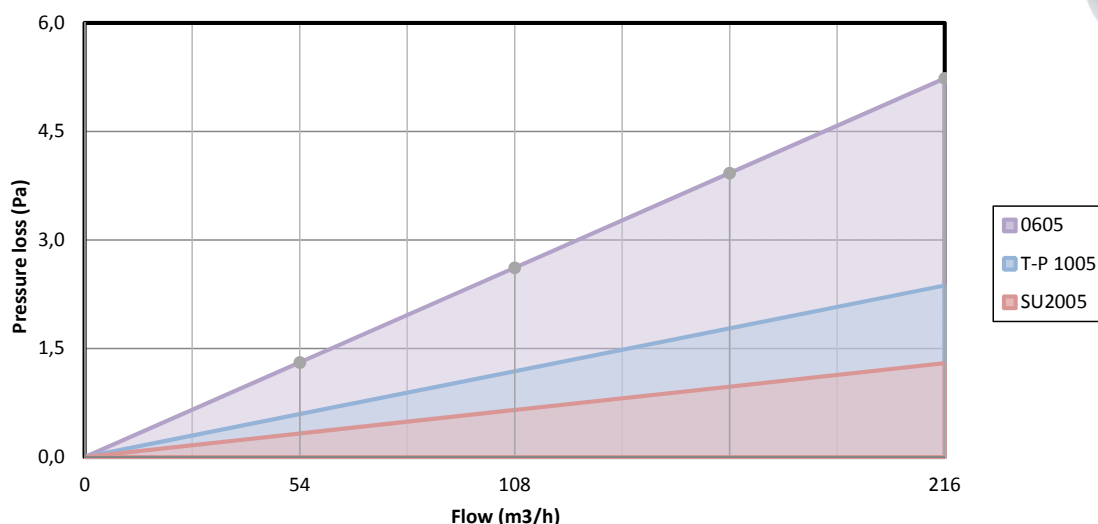
- Fireproof: Self-extinguishing B-S3, d0 according to EN 13501-1:2002
- Maximum temperature: +80°C
- Thermal conductivity 0.0544-0.0662W / (m.k)
- Long-life: more than 20 years of seal's lifetime
- Resistant to UV and to other chemical substances



TECHNICAL SPECIFICATIONS								
Reference	Description	Inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
0605	CIRCULAR DUCT Ø 100	Ø 100	0	1000/1500/3000	TPC-rigid	1,3	2,6	5,2
T-P 1005	CIRCULAR DUCT Ø 125	Ø 125	0	1000/1500/3000	TPC-rigid	0,6	1,2	2,4
SU2005	CIRCULAR DUCT Ø 150	Ø 150	0	1000/1500/3000	TPC-rigid	0,3	0,6	1,3

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

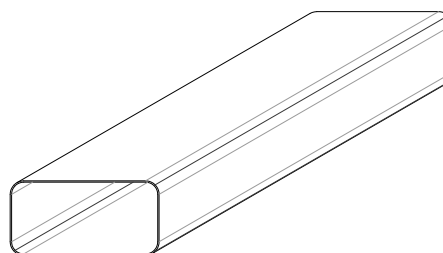
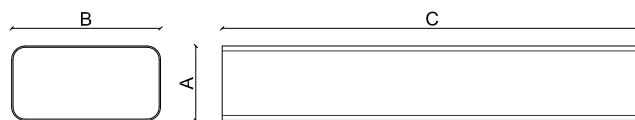
Thermoplastic Ducts

Technical data PL-0501 / PL-1002

Foldable rectangular duct **TUBPLA® PLUS** of inner smooth surface produced by thermoplastic raw material

ADVANTAGES:

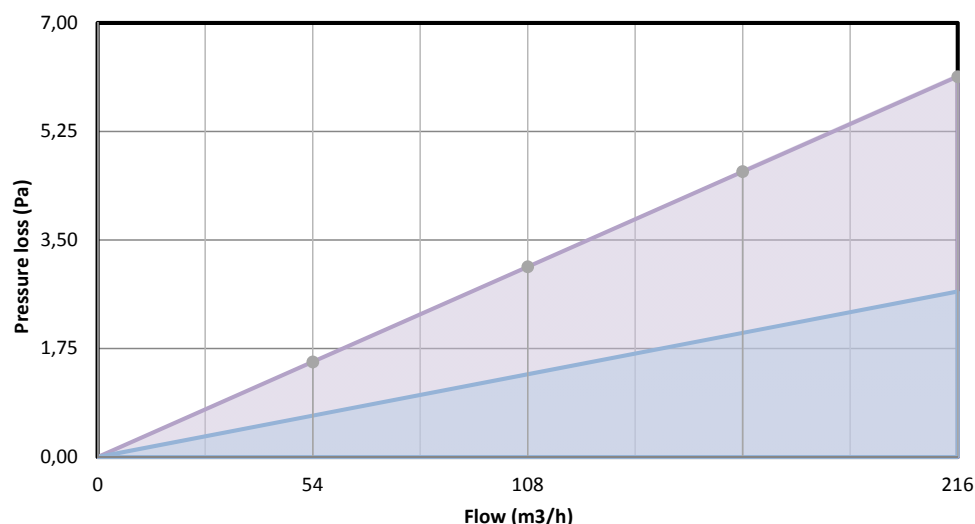
- Saving
 - Transport: 60%
 - Storage: 90%
 - Handling: 50%
- Space optimization by increasing range
- Easy to install due to flexibility of the duct



TECHNICAL SPECIFICATIONS								
Reference	Description	Inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
PL-0501	FOLDABLE RECTANGULAR DUCT 55X110	55	110	1000/1500/3000	TPC- rigid	1,5	3,1	6,1
PL-1002	FOLDABLE RECTANGULAR DUCT 55X220	55	220	1000/1500/3000	TPC- rigid	0,7	1,3	2,7

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



PL-0501
PL-1002

Technical Sheet

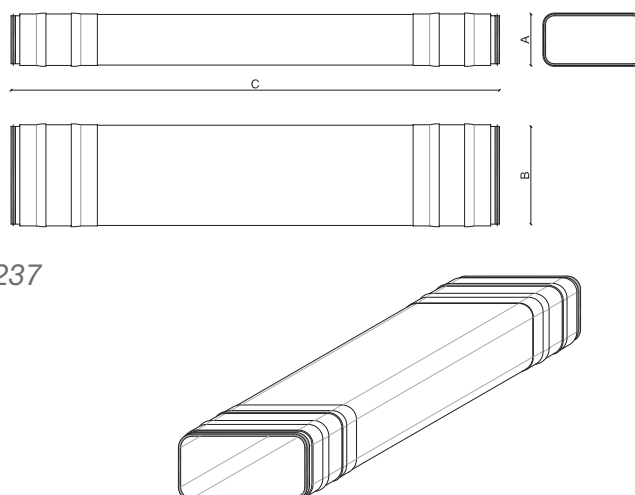
Thermoplastic Ducts

Technical data CA55115ES / CA55225ES

Acoustic attenuator rectangular duct, of inner smooth surface
TUBPLA® AIRTIGHT

CHARACTERISTICS:

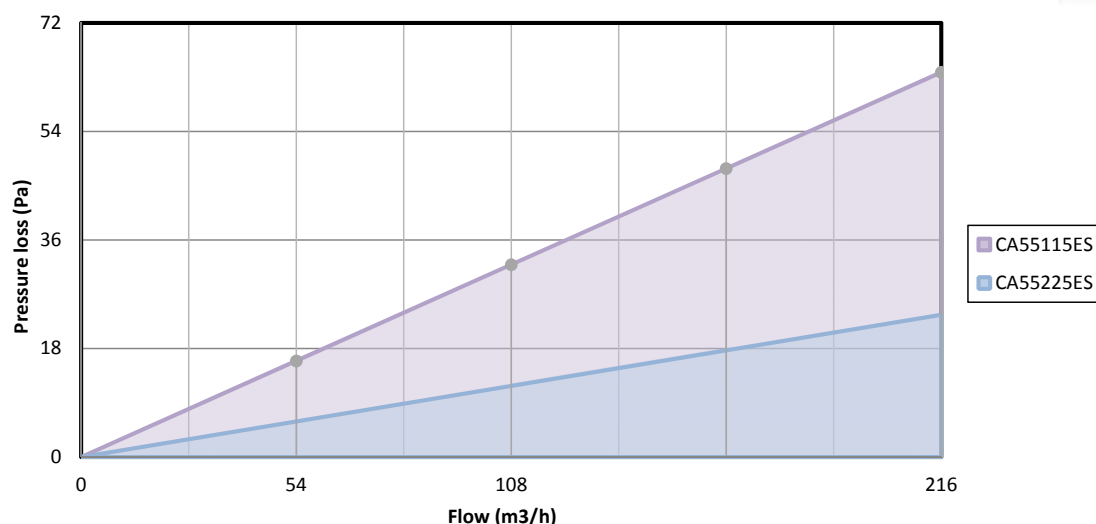
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237
- Contributes to fulfilment of EN 15251:2007



TECHNICAL SPECIFICATIONS								
Reference	Description	Inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
CA55115ES	ACUSTIC ATENUATOR DUCT 55X110	55	110	560	TPC-rigid	16,0	31,9	63,8
CA55225ES	ACUSTIC ATENUATOR DUCT 55X220	55	220	560	TPC-rigid	5,9	11,8	23,6

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

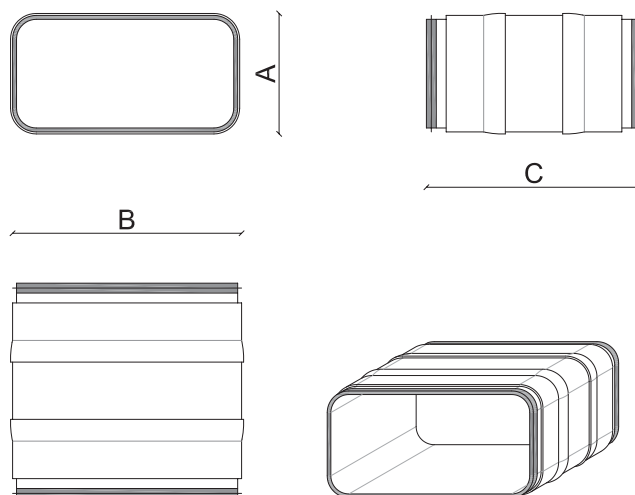
Termoplastic Components

Technical data 0510ES / T-P 1020ES / SU2020ES

Rectangular joint
TUBPLA® AIRTIGHT

CHARACTERISTICS:

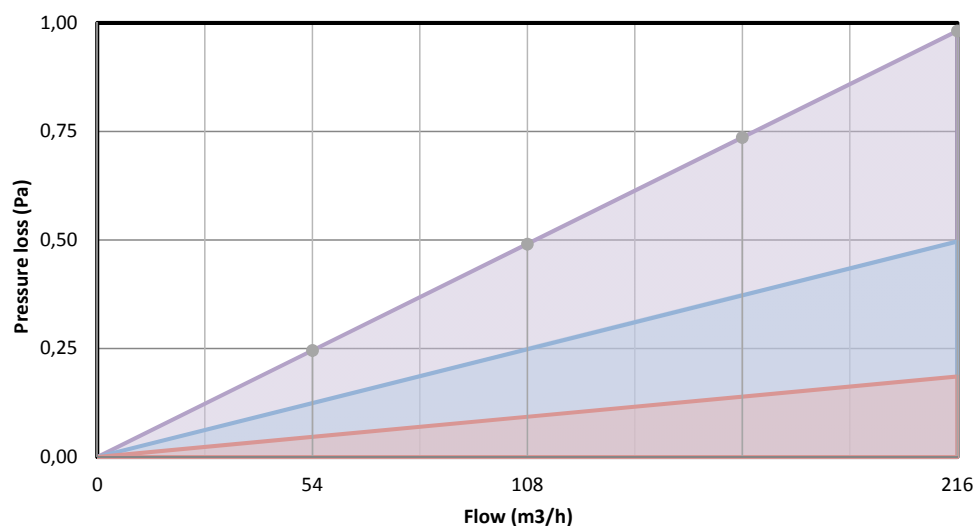
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS								
Reference	Description	Inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
0510ES	RECTANGULAR JOINT 55X110	55	110	109	PS	0,2	0,5	1,0
T-P1020ES	RECTANGULAR JOINT 55X220	55	220	120	PS	0,1	0,2	0,5
SU2020ES	RECTANGULAR JOINT 90X180	90	180	112	PP	0,0	0,1	0,2

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

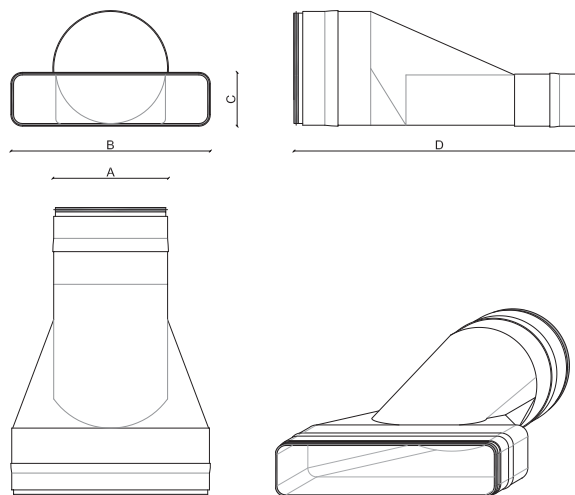
Thermoplastic Components

Technical data 0520ES / T-P 1040ES / SU2040ES

Mixed circular to rectangular adaptor
TUBPLA® AIRTIGHT

CHARACTERISTICS:

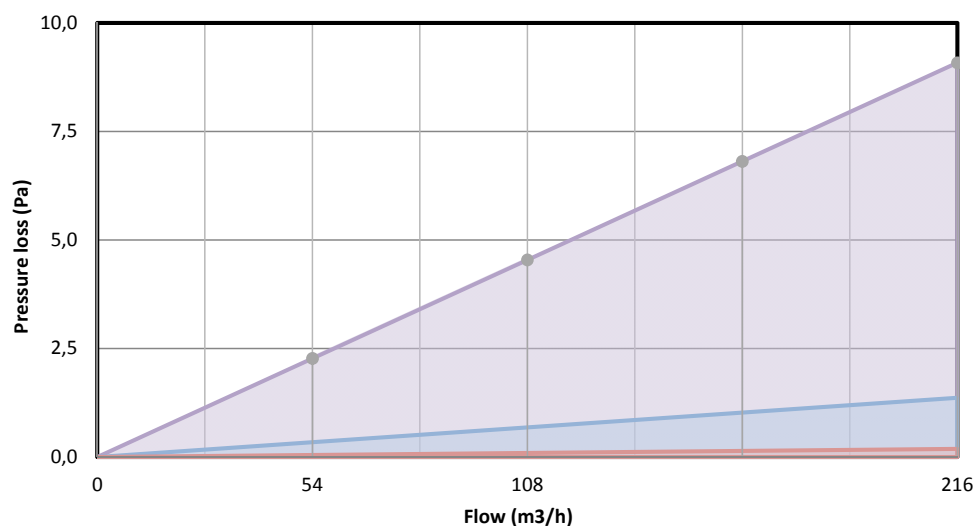
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS									
Reference	Description	Inside dimensions (mm)				Raw material	Pressure loss (Pa)		
		A	B	C	D		54 m³/h	108m³/h	216m³/h
0520ES	MIXED ADAPTOR 110x55 - Ø100	100	110	55	210	PS	2,3	4,5	9,1
T-P1040ES	MIXED ADAPTOR 220x55 - Ø125	125	220	55	328	PS	0,3	0,7	1,4
SU2040ES	MIXED ADAPTOR 180x90 - Ø150	150	180	90	210	PS	0,0	0,1	0,2

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

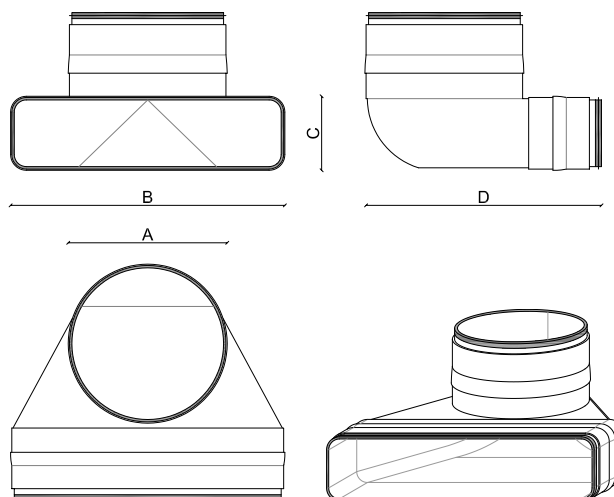
Thermoplastic Components

Technical data 0525ES / T-P 1050ES / SU2050ES

Mixed circular to rectangular 90° bend
TUBPLA® AIRTIGHT

CHARACTERISTICS:

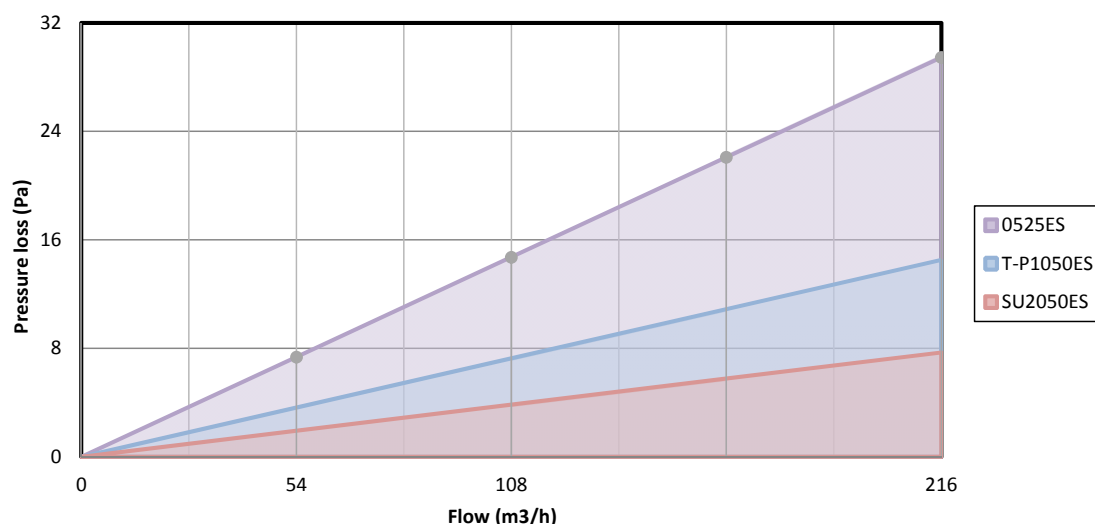
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS									
Reference	Description	Inside dimensions (mm)				Raw material	Pressure loss (Pa)		
		A	B	C	D		54 m³/h	108m³/h	216m³/h
0525ES	MIXED BEND 90° 110x55 - Ø100	100	110	55	165	PP	7,4	14,7	29,5
T-P1050ES	MIXED BEND 90° 220x55 - Ø125	125	220	55	195	PS	3,6	7,3	14,5
SU2050ES	MIXED BEND 90°180x90 - Ø150	150	180	90	212	PP	1,9	3,8	7,7

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

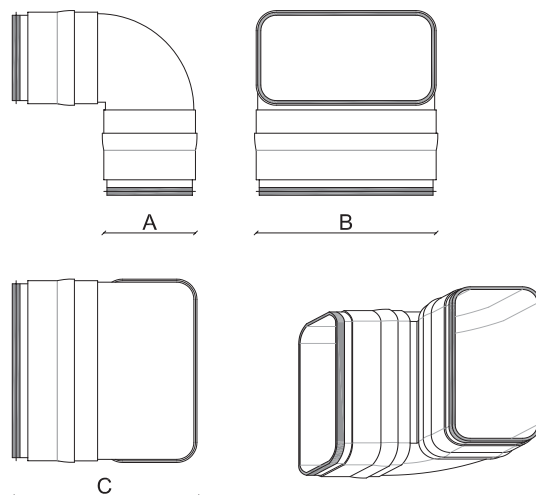
Thermoplastic Components

Technical data 0530ES / T-P 1060ES / SU2060ES

Vertical rectangular 90° bend
TUBPLA® AIRTIGHT

CHARACTERISTICS:

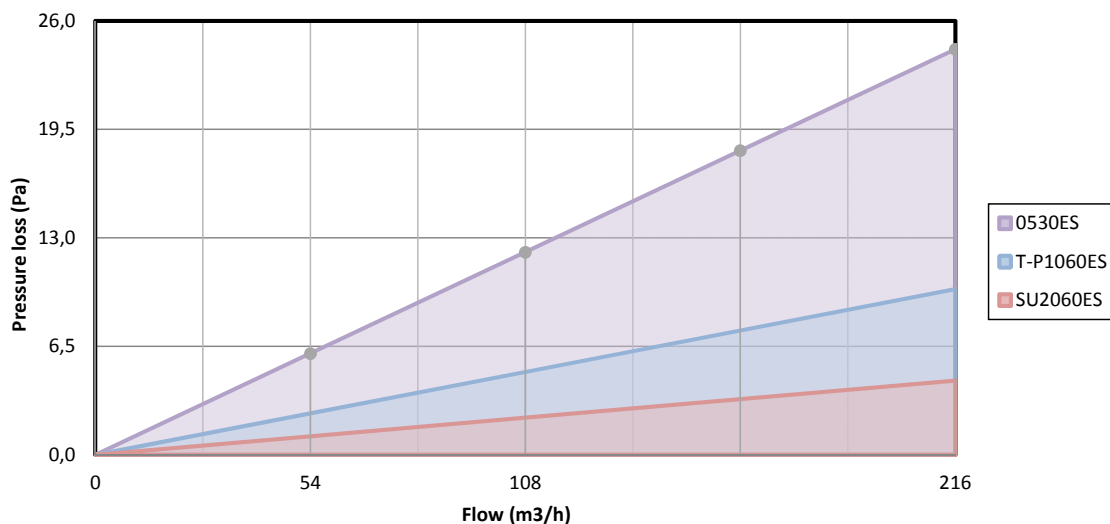
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS								
Reference	Description	Inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
0530ES	VERTICAL RECTANGULAR 90° BEND	55	110	120	PP	6,1	12,2	24,3
T-P1060ES	VERTICAL RECTANGULAR 90° BEND	55	220	165	PS	2,5	5,0	9,9
SU2060ES	VERTICAL RECTANGULAR 90° BEND	90	180	160	PP	1,1	2,2	4,4

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

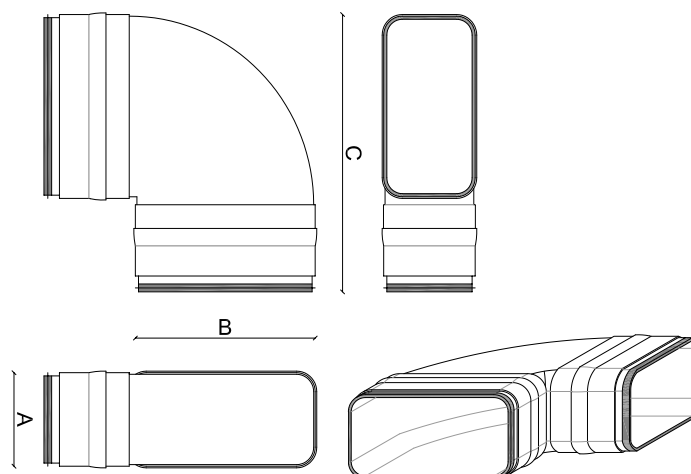
Thermoplastic Components

Technical data 0535ES / T-P 1070ES / SU2070ES

Horizontal rectangular 90° bend
TUBPLA® AIRTIGHT

CHARACTERISTICS:

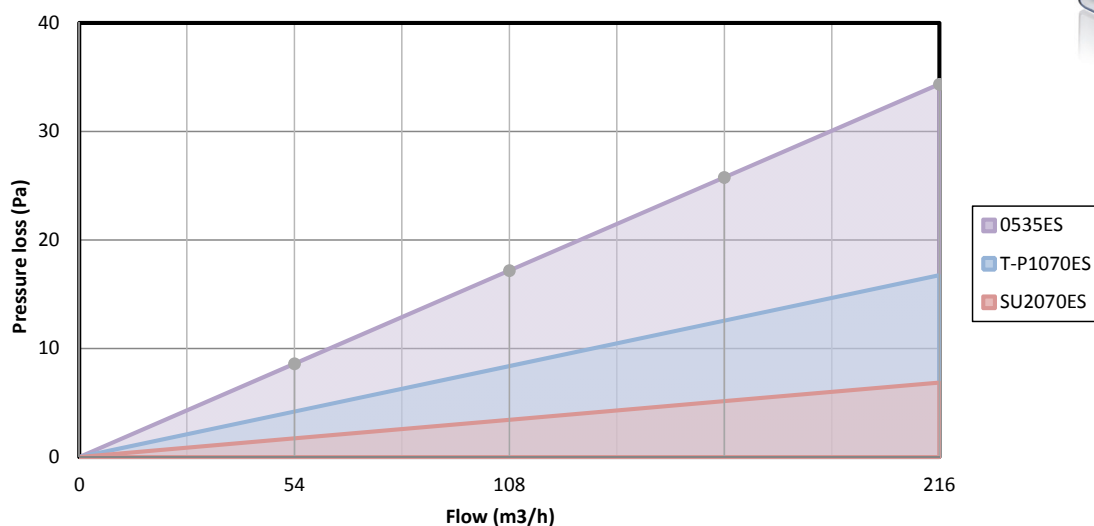
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS								
Reference	Description	Inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
0535ES	HORIZONTAL RECTANGULAR 90° BEND	55	110	170	PP	8,6	17,2	34,4
T-P1070ES	HORIZONTAL RECTANGULAR 90° BEND	55	220	310	PS	4,2	8,4	16,8
SU2070ES	HORIZONTAL RECTANGULAR 90° BEND	90	180	225	PP	1,7	3,4	6,9

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

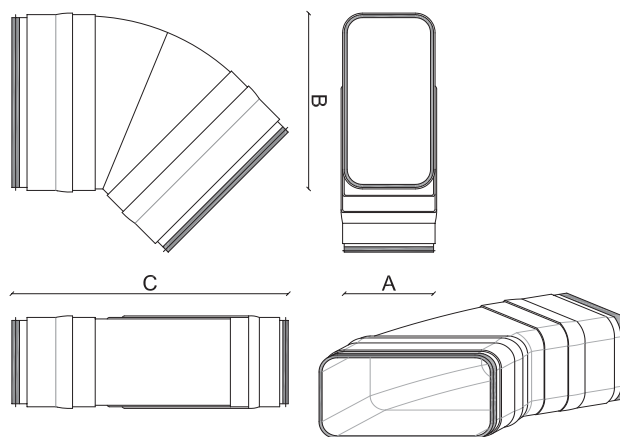
Thermoplastic Components

Technical data 0570ES / T-P 1075ES / SU2071ES

Horizontal rectangular 45° bend
TUBPLA® AIRTIGHT

CHARACTERISTICS:

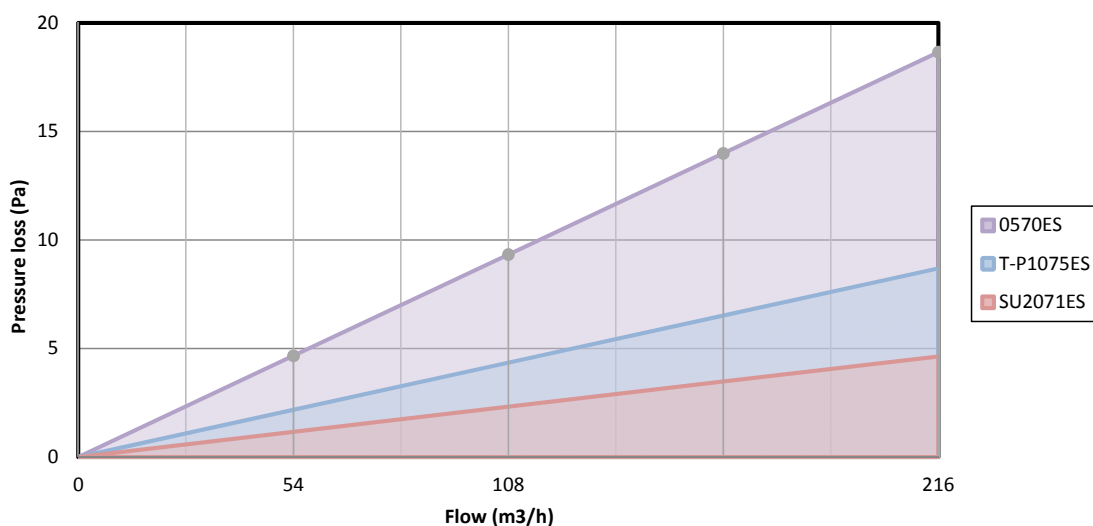
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS								
Reference	Description	Inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
0570ES	HORIZONTAL RECTANGULAR 45° BEND	55	110	188	PP	4,7	9,3	18,7
T-P1075ES	HORIZONTAL RECTANGULAR 45° BEND	55	220	295	PS	2,2	4,3	8,7
SU2071ES	HORIZONTAL RECTANGULAR 45° BEND	90	180	218	PP	1,2	2,3	4,6

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

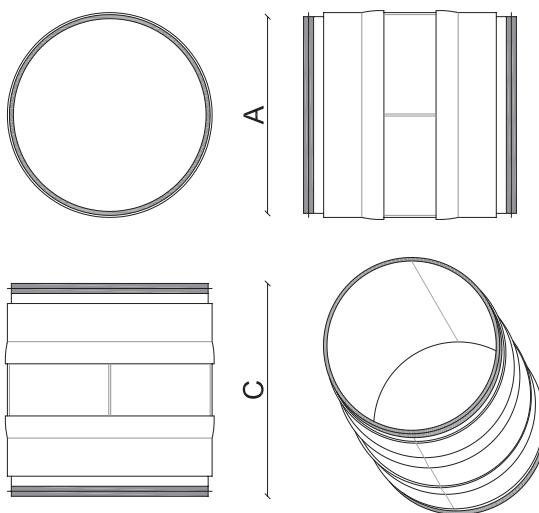
Thermoplastic Components

Technical data 0615ES/ T-P 1030ES

Circular joint
TUBPLA® AIRTIGHT

CHARACTERISTICS:

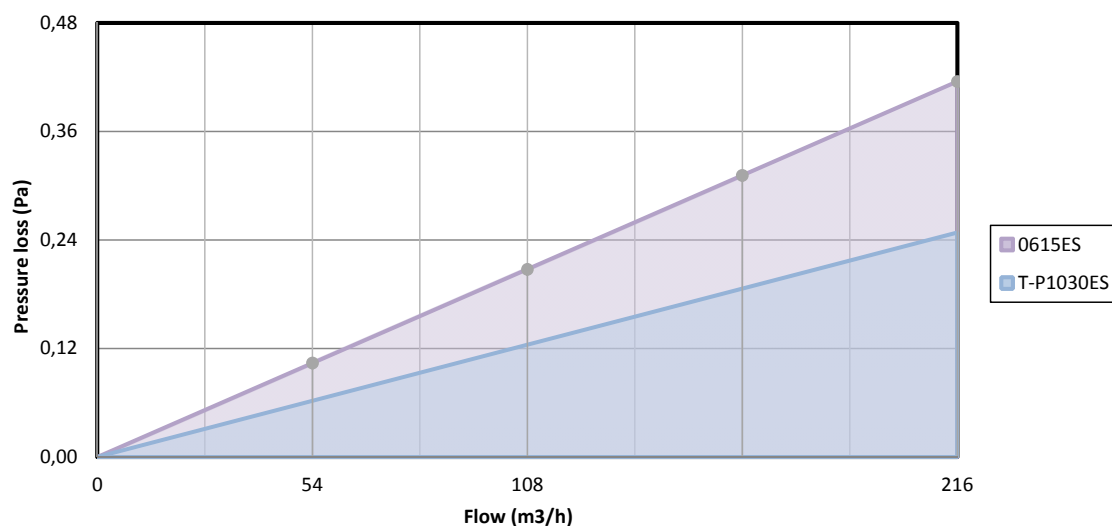
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS								
Reference	Description	Inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
0615ES	CIRCULAR JOINT Ø100	Ø100	0	106	PP	0,1	0,2	0,4
T-P1030ES	CIRCULAR JOINT Ø125	Ø125	0	135	PS	0,1	0,1	0,2

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

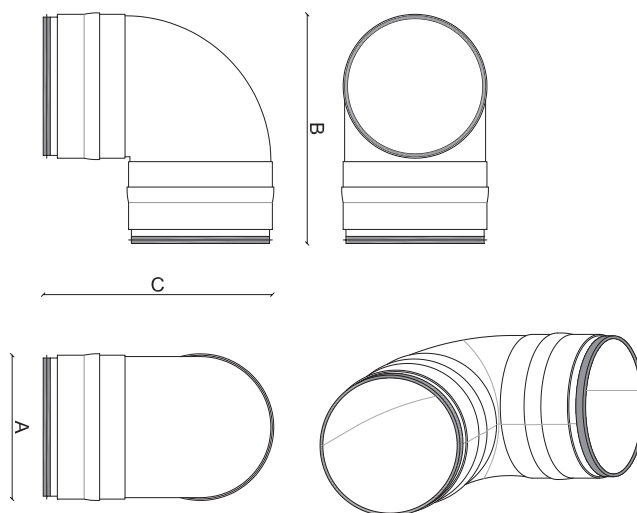
Thermoplastic Components

Technical data 0670ES/ T-P 1500ES

Circular 90° bend
TUBPLA® AIRTIGHT

CHARACTERISTICS:

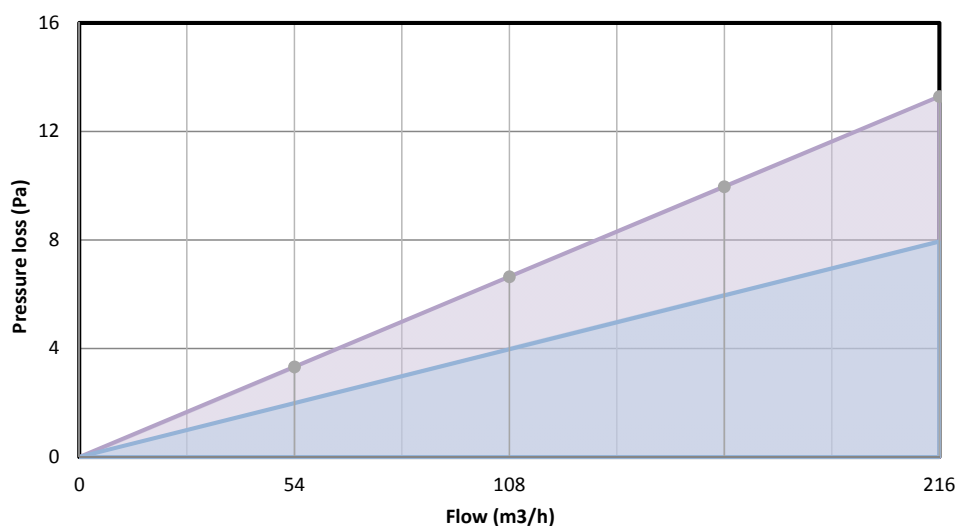
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS								
Reference	Description	inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
0670ES	CIRCULAR 90° BEND	Ø100	162	162	PS	3,3	6,6	13,3
T-P1500ES	CIRCULAR 90° BEND	Ø125	205	205	PS	2,0	4,0	7,9

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

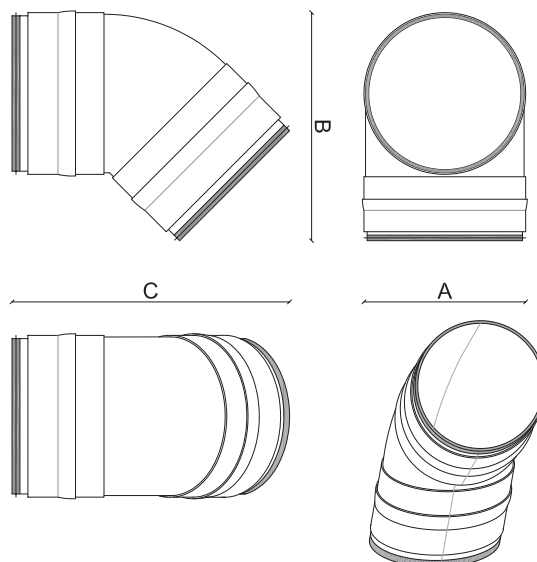
Thermoplastic Components

Technical data 0676ES/ T-P 1545ES

Circular 45° bend
TUBPLA® AIRTIGHT

CHARACTERISTICS:

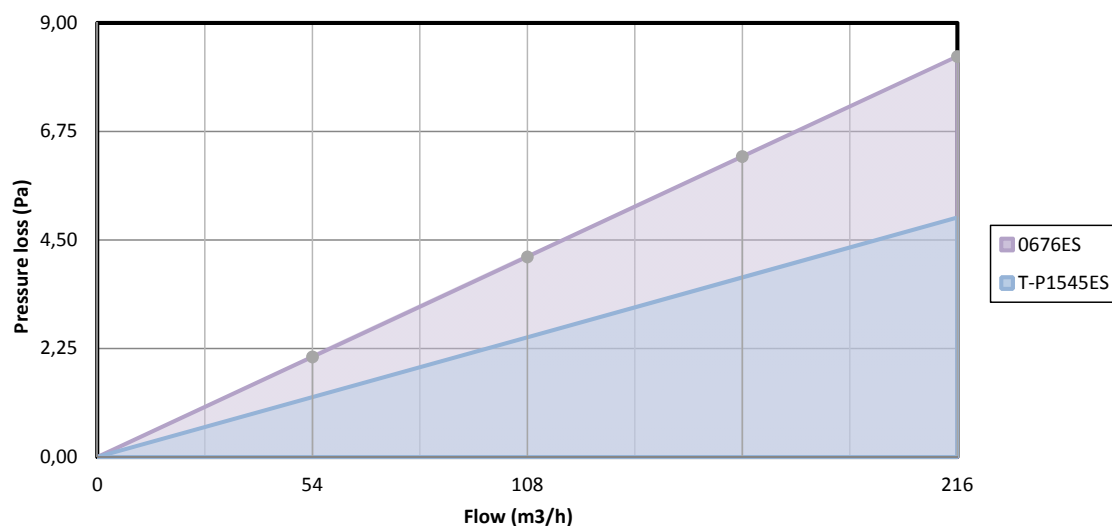
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS								
Reference	Description	inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
0676ES	CIRCULAR 45° BEND	Ø100	130	175	PP	2,1	4,2	8,3
T-P1545ES	CIRCULAR 45° BEND	Ø125	275	275	PS	1,2	2,5	5,0

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

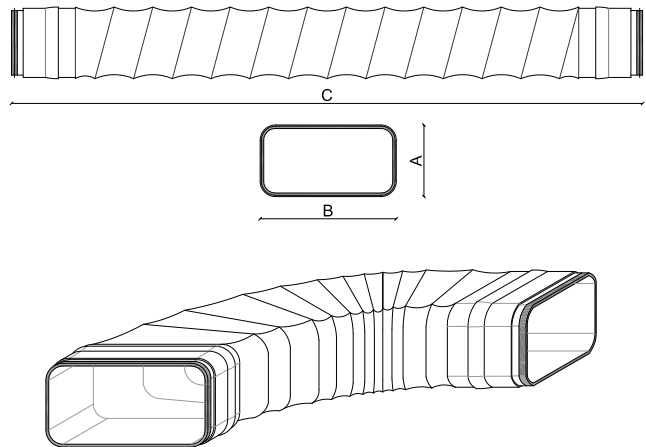
Thermoplastic Components

Technical data CCF-500ES / CCF-1000ES / CCF-900ES

Rectangular flexible bend
TUBPLA® AIRTIGHT

CHARACTERISTICS:

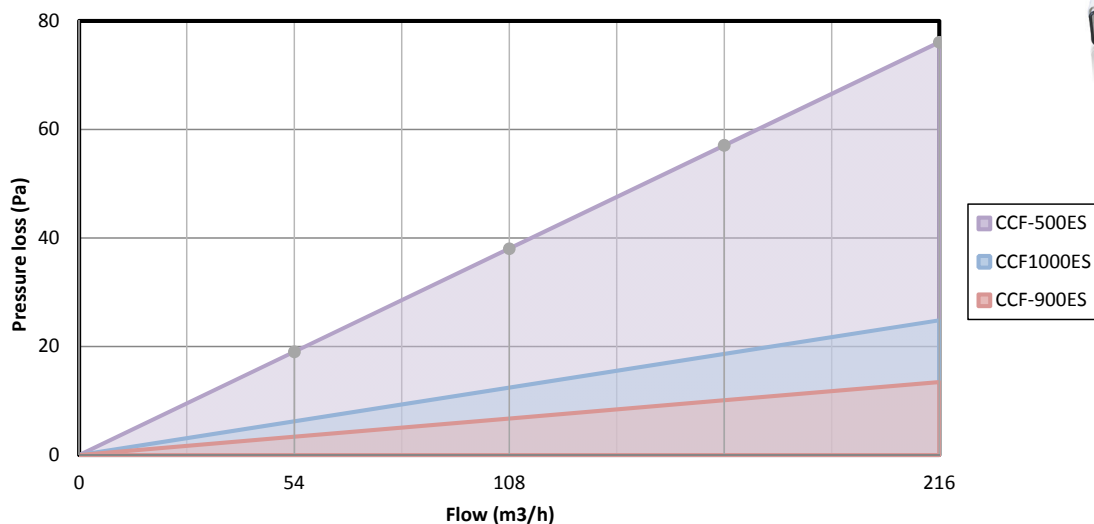
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237
- Going around obstacles and variable angle 0-90°



TECHNICAL SPECIFICATIONS								
Reference	Description	inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
CCF-500ES	RECATANGULAR FLEXIBLE BEND 55X110	55	110	540	PS	19,0	38,0	76,1
CCF-1000ES	RECATANGULAR FLEXIBLE BEND 55X220	55	220	540	PS	6,2	12,4	24,8
CCF-900ES	RECATANGULAR FLEXIBLE BEND 90X180	90	180	540	PS	3,4	6,7	13,4

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

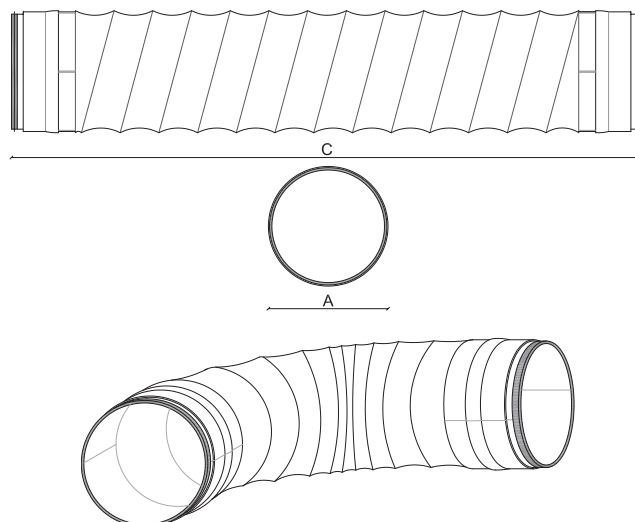
Thermoplastic Components

Technical data CRF-100ES / CRF-125ES

Circular flexible bend
TUBPLA® AIRTIGHT

CHARACTERISTICS:

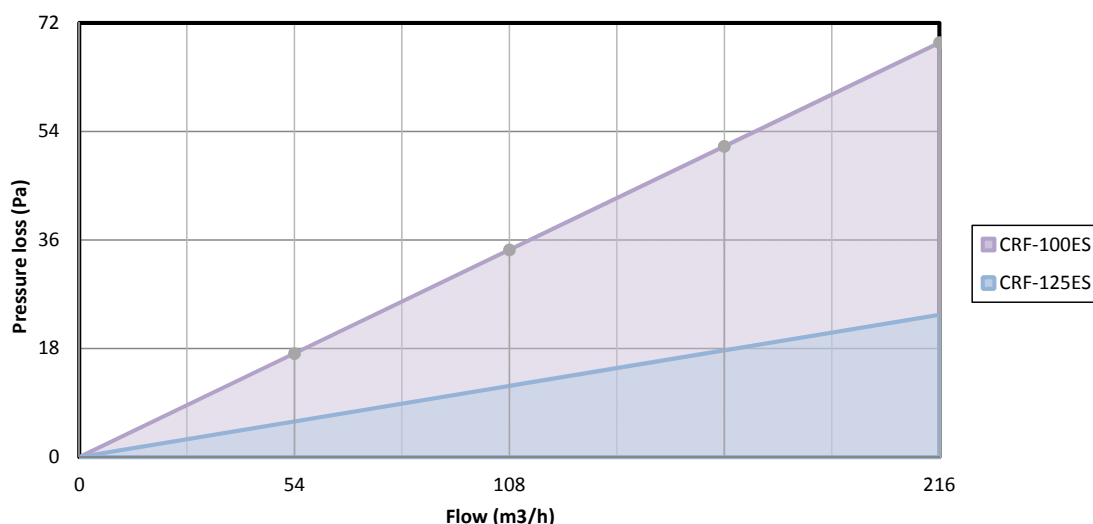
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237
- Going around obstacles and variable angle 0-90°



TECHNICAL SPECIFICATIONS								
Reference	Description	inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
CRF-100ES	CIRCULAR FLEXIBLE BEND Ø100	Ø100	0	540	PS	17,2	34,4	68,7
CRF-125ES	CIRCULAR FLEXIBLE BEND Ø125	Ø125	0	540	PS	5,9	11,8	23,6

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

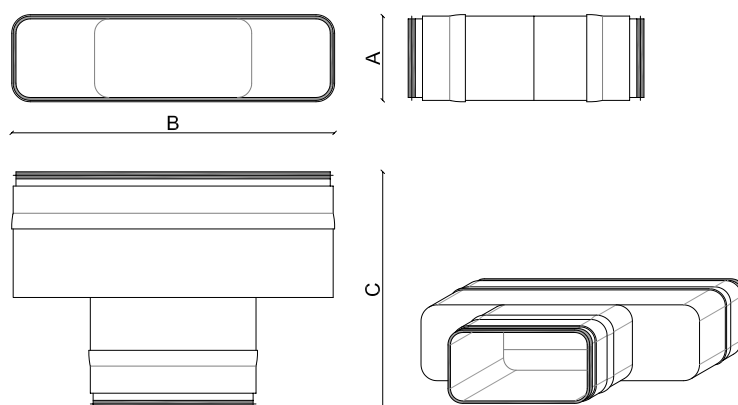
Thermoplastic Components

Technical data RP2211ES

Rectangular adaptor 22x55 - 110x55
TUBPLA® AIRTIGHT

CHARACTERISTICS:

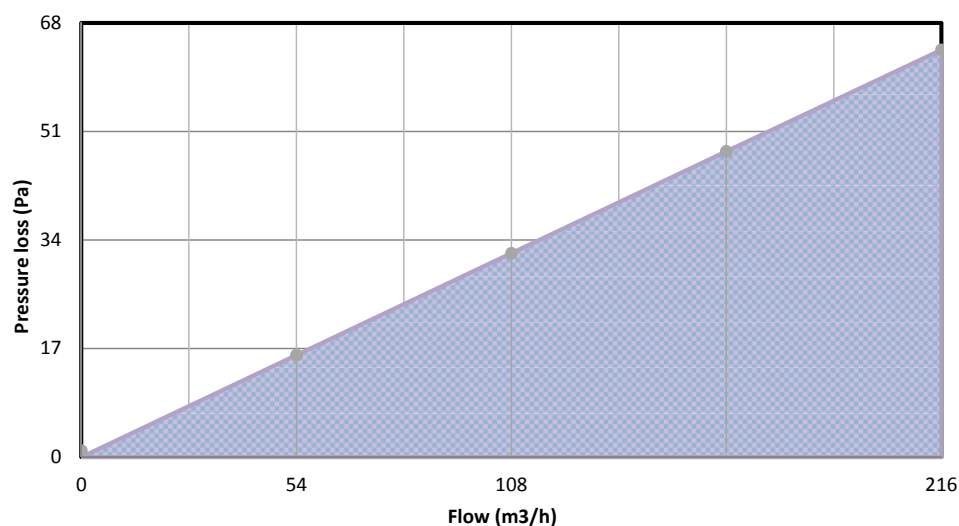
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS								
Reference	Description	inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
RP2211ES	RECTANGULAR ADAPTOR 220x55 - 110x55	55	220	165	PS	16,0	31,9	63,8

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



RP2211ES
RP2211ES

Technical Sheet

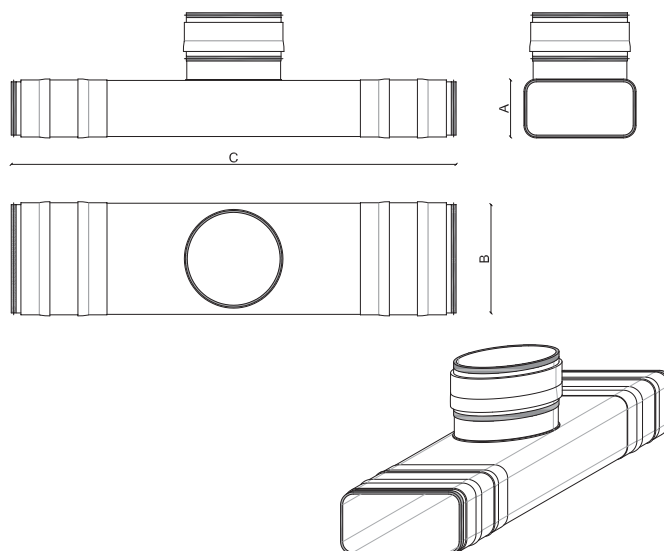
Thermoplastic Components

Technical data T-1ES / T-2ES

Mixed "T" joint
TUBPLA® AIRTIGHT

CHARACTERISTICS:

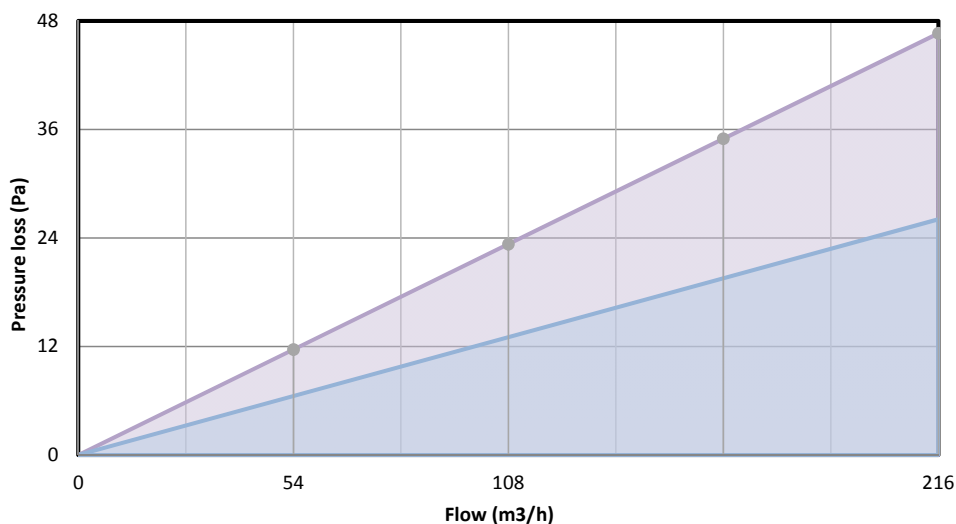
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS								
Reference	Description	inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
T-1ES	MIXED "T" JOINT 110x55x300 - Ø100	55	110	460	TPC-rigid	11,7	23,3	46,6
T-2ES	MIXED "T" JOINT 220x55x300 - Ø125	55	220	490	TPC-rigid	6,5	13,0	26,1

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



Technical Sheet

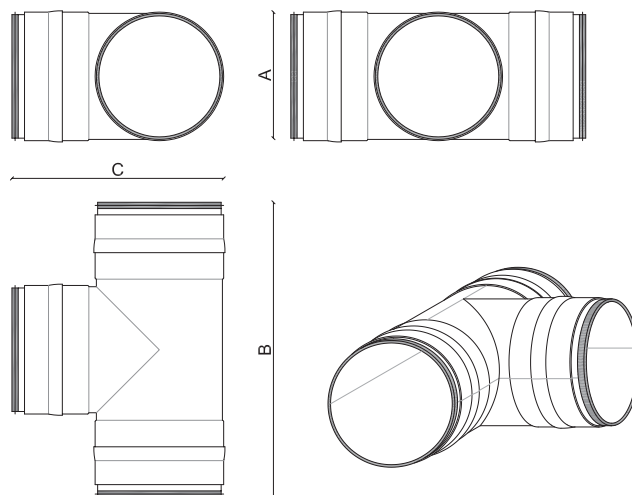
Thermoplastic Components

Technical data TR-100ES / TR-125ES

Circular "T" joint
TUBPLA® AIRTIGHT

CHARACTERISTICS:

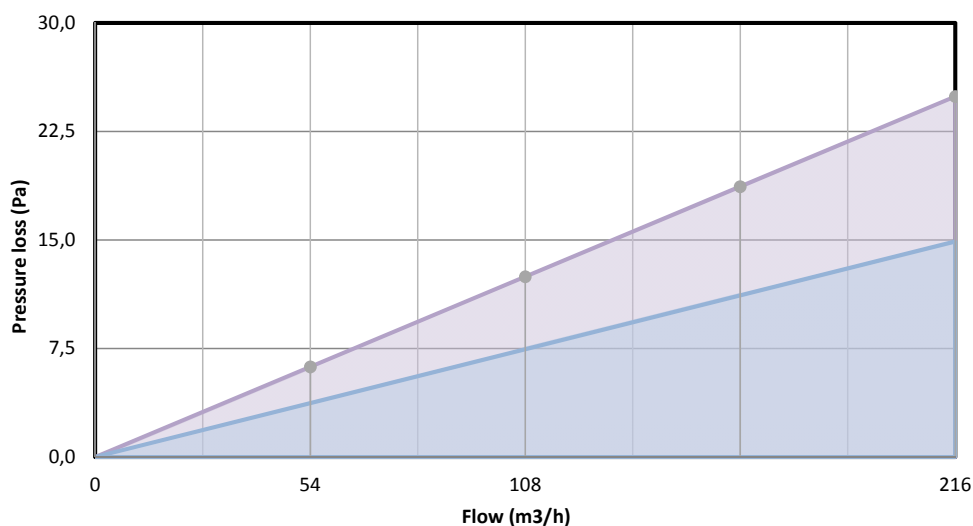
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS								
Reference	Description	inside dimensions (mm)			Raw material	Pressure loss (Pa)		
		A	B	C		54 m³/h	108m³/h	216m³/h
TR-100ES	CIRCULAR "T" JOINT - Ø100	Ø100	230	175	PS	6,2	12,5	24,9
TR-125ES	CIRCULAR "T" JOINT - Ø125	Ø125	281	215	PS	3,7	7,4	14,9

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



TR-100ES
TR-125ES

Technical Sheet

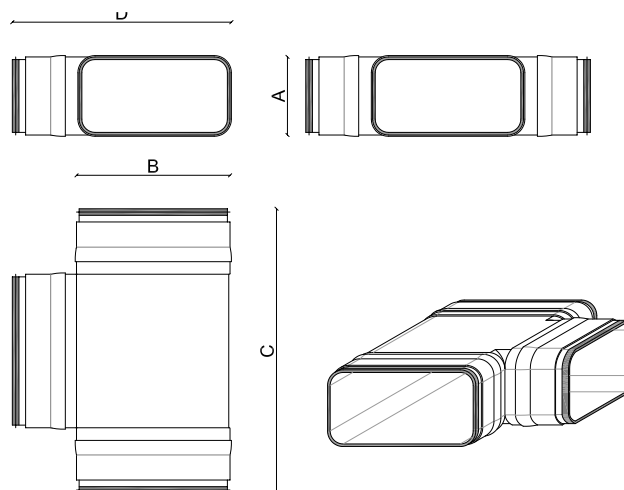
Thermoplastic Components

Technical data TT-2ES / TT-3ES / TT4ES

Rectangular "T" joint
TUBPLA® AIRTIGHT

CHARACTERISTICS:

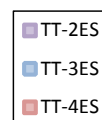
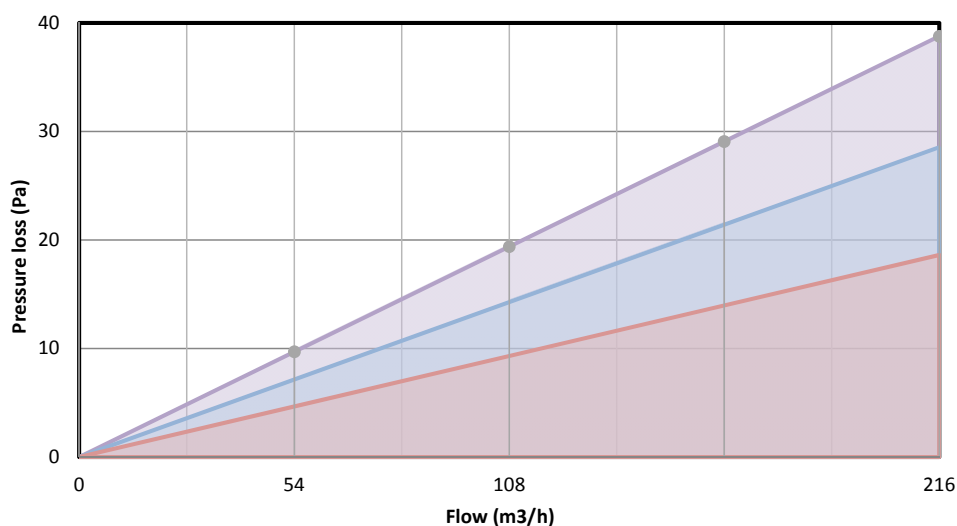
- Mechanical connections
- Modular fitting male-female
- Fixing system trough "AIRTIGHT"
- Extremely air-tight Class D according to EN 12237



TECHNICAL SPECIFICATIONS									
Reference	Description	inside dimensions (mm)				Raw material	Pressure loss (Pa)		
		A	B	C	D		54 m³/h	108m³/h	216m³/h
TT- 2ES	RECTANGULAR "T" JOINT 55x110	55	110	215	165	PS	9,7	19,4	38,8
TT- 3ES	RECTANGULAR "T" JOINT 55x220	55	220	440	338	TPC-rigid	7,1	14,3	28,6
TT- 4ES	RECTANGULAR "T" JOINT 90x180	90	180	370	300	PS	4,7	9,3	18,6

PRODUCT TECHNICAL GRAPHIC

- about pressure loss (Pa) and Flow (m³/h)
- air speed of 4 m/s



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