



PRODUCT CATALOGUE

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**Product
Catalogue**

**Company
Profile**

**Corporate Business
Brochure**

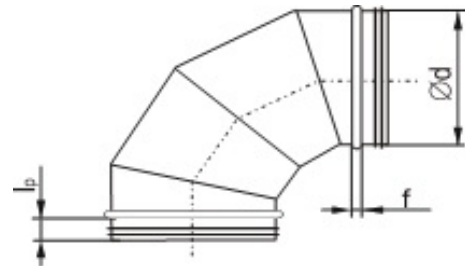
Table of contents

01 INTRODUCTION	4-5
02 STRAIGHT CONDUITS SRV LFRV	6-7
03 SEGMENT BEND BFV90U	8-9
04 SEGMENT BEND BFV60U	10-11
05 SEGMENT BEND BFV45U	12-13
06 SEGMENT BEND BFV30U	14-15
07 SEGMENT BEND BFV15	16-17
08 SEGMENT BUSHING, SYMMETRICAL RCLVU	18-19
09 SEGMENT BUSHING, SYMMETRICAL RLVU	20-21
10 TEE TCPVU ØD1 ØD3	22-27
11 SADDLE COVER TSTCVU	28
12 SADDLE COVER TSTIVU	29
13 SADDLE COVER PSVU	30
14 NOISE SILENCER SLVU	31-35
15 NOICE SILENCER PVAPVU	36-37
16 ATTENUATING BEND BSLVU	38-39
17 DAMPER DTVU, DSVU, DRVU	40-42
18 MULTI-LEAF DAMPER JSMCVU	43
19 NON-RETURN FLAP VALVE EPNFV	44
20 STUB PIPE ILFVU	45
21 STUB PIPE WITH SCREEN AND FRAME PNFVU	46
22 STUB PIPES WITH SCREEN EPNFV	47
23 EXTERNAL COUPLINGS MFV	48
24 INTERNAL COUPLINGS NPVU	49
25 PIPE STOPPERS ESVU	50
24 AIR INTAKES WIV	51
25 ROOF INTAKES HV	52
26 STUB PIPE KWV	53
27 ROOF EXHAUST HWVF	54
27 ROOF EXHAUST HWVSF	55
28 NOTEBOOK	56-57

Introduction

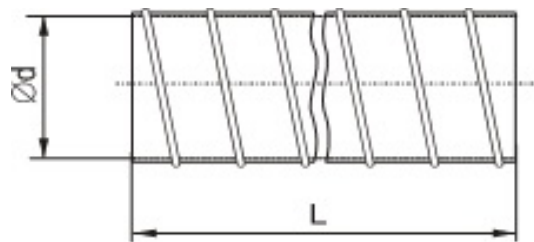
Dimensional tolerances for couplers *

$\varnothing d$ [mm]	Tolerance [mm]	lp^{**} [mm]	f [mm]
100	99,3-98,8	40	6
125	124,3-123,8	40	6
160	159,3-158,7	40	6
200	199,3-198,6	40	6
250	249,3-248,5	40	6
315	314,3-313,4	60	6
400	399,3-398,3	80	8
500	499,3-498,2	80	8
630	629,3-628,1	80	8
800	799,3-798,0	100	12
1000	999,3-997,9	100	12
1250	1249,3-1247,8	120	12



Dimensional tolerances for conduits *

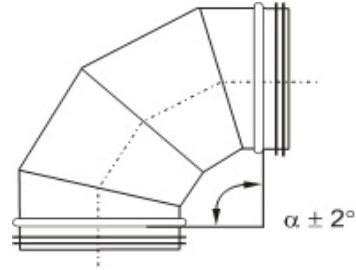
$\varnothing d$ [mm]	Tolerance [mm]
100	100,5-100,0
125	125,5-125,0
160	160,6-160,0
200	200,7-200,0
250	250,8-250,0
315	315,9-315,0
400	401,0-400,0
500	501,1-500,0
630	631,2-630,0
800	801,6-800,0
1000	1002,0-1000,0
1250	1252,5-1250,0



Introduction

- * - According to the PN-B-03434 and PN-EN 1506 standards
- ** - Nominal connection length "lp". The real length is 5 mm less with the F-type seal mounting using Shaper machines.

Dimensions, h, r, s [mm]	Tolerance [mm]
≤15	0 2-
> 100 ≥ 15	0 5-
> 100	0 10-



Elements are most often produced of sheet metal galvanised on both sides - no. 1.0226 (DX51D+Z275 MA-C), according to PN-EN 10142. Zinc coating weight is 275 g/m².
If ordered elements are made of this material, its symbols are not specified in the order.

In a standard version, for stainless steel products we provide cold-rolled sheets no. 1.4301 (X5CrNi18-10), according to the PN-EN 10088. When ordering a product made of another stainless steel grade,

we ask that its symbol be specified in place of the letters "mat.", according to the

PN-EN 10088 standard. We provide aluminium fittings of the 5754 (AlMg3) sheet, according to the PN-EN 573. Press-formed elements are made of zinc-coated sheet.

To make damping insulation in attenuators, we use ISOVER Ultimate U MFN 16 mineral wool (max. application temp.: 400 C), and to insulate plinths - ROCKWOOL Industrial Balts Black wool (max. temp.: 250 C). The maximum application temperature for joint gaskets is 80 C.

Please, specify the colour according to the RAL palette at the end.

Straight conduits SRV LFRV

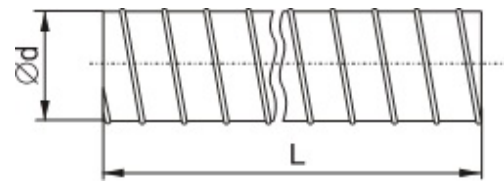
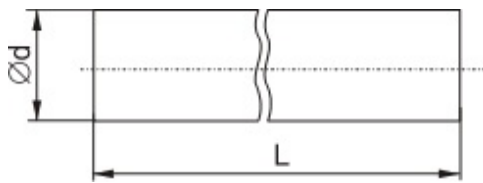
DESCRIPTION:

Straight spiro type pipes (SRV) from Ø250 are produced with press - formed reinforcements.

Standard length SRV pipes made from stainless steel is 1 000 mm. Standard length of delivered "spiro" type pipes is 3000 mm.

The LFRV conduits may be installed using couplers (nipple), or flanges.

Characteristic dimensions of straight conduits.



SRV		
Ød [mm]	P ef.* [m ²]	Weight** [kg/m]
100	0,008	1,7
125	0,012	2,2
160	0,020	2,7
200	0,031	3,7
250	0,049	4,3
315	0,078	7,3
400	0,126	9,2
500	0,196	11,5
630	0,312	18,1
710	0,396	20,2
800	0,503	23,0
1000	0,785	34,2
1250	1,227	43,3

LFRV			
Ød [mm]	L 1000 [mm]	L=1500-1001 [mm]	L=2000-1501 [mm]
100	ZL	-	-
125	ZL	ZLS	ZLS
160	ZL	ZD	ZD
200	ZL	ZD	ZD
250	ZL	ZD	ZD
315	ZL	ZD	ZD
400	ZL	ZD	ZD
500	ZL	ZD	ZLS
630	ZL	ZD	ZLS
710	ZL	ZD	ZLS
800	ZL	ZD	ZLS
1000	ZD	ZD	-
1250	ZD	ZD	-

LFRV Manufacturing:

ZL - Pressure weld along the pipe

ZD - lock along the pipe

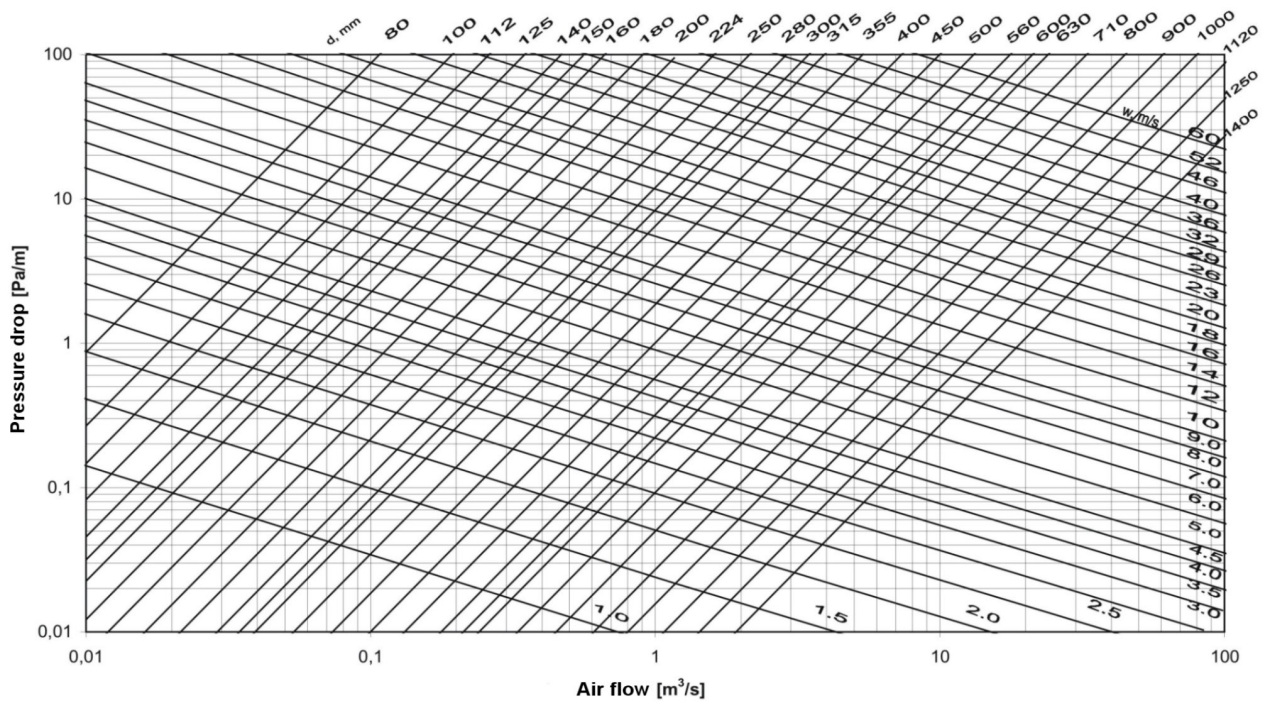
ZLS - Pressure weld along the pipe and lock across the pipe.

* - Effective area

** - Computational values

Relationship between pressure drops and flow rate for "spiro" type conduits.

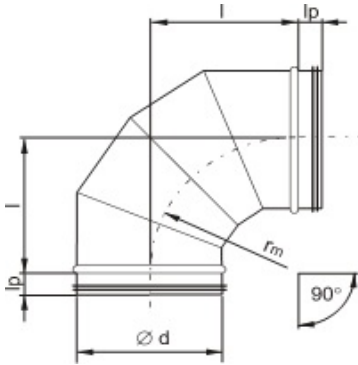
Straight conduits SRV LFRV



Segment bend BFV90U

DESCRIPTION:

BFVU segment bends - 90°, with bend radiuses "rm" of 1 d, 1.5d, or 2d. They are made either with or without gasket.

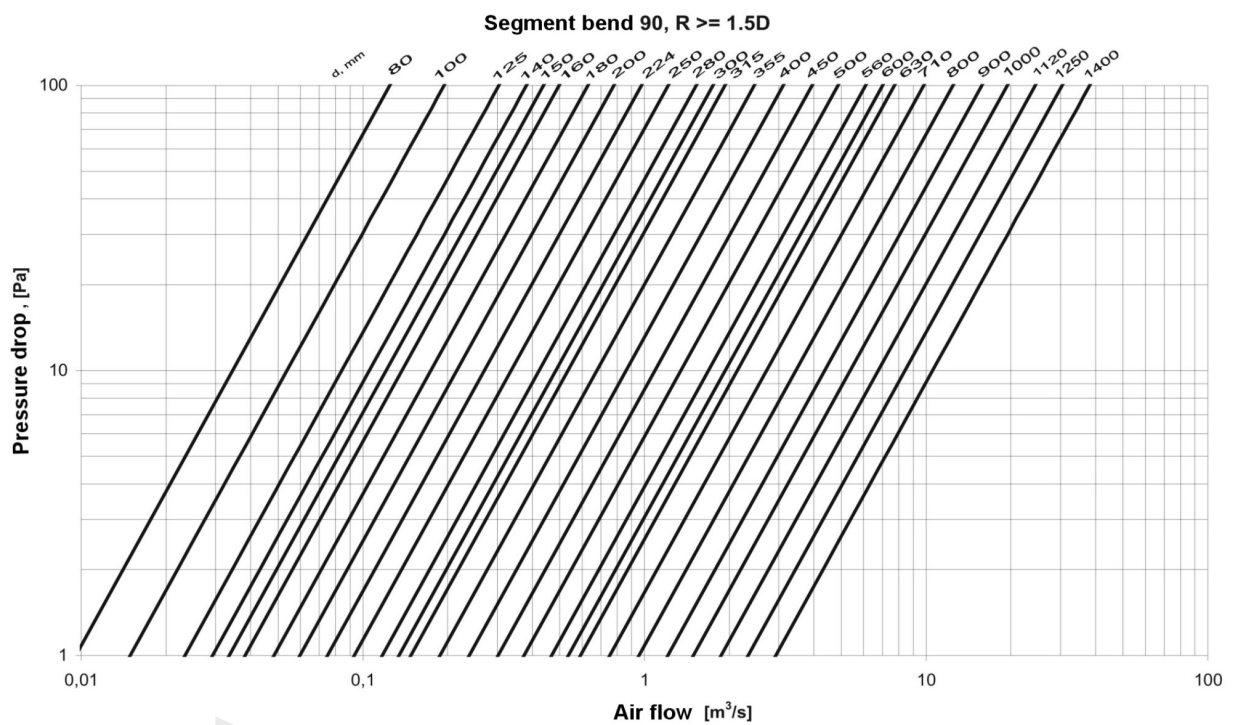
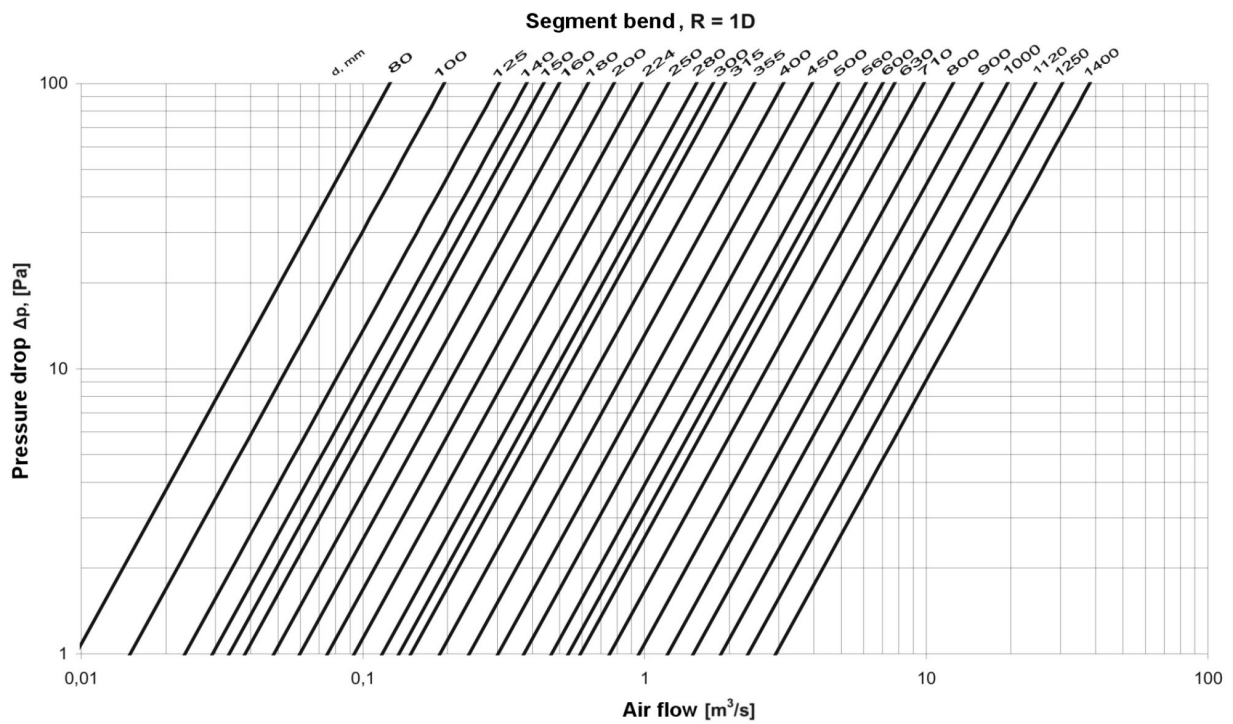


Dimensions of BFV90U segment bends.

Ød [mm]	rm = 1 d		rm = 1,5 d		rm = 2 d	
	l [mm]	Weight [kg]*	l [mm]	Weight [kg]*	l [mm]	Weight [kg]*
100	100	0,4	150	0,5	200	0,6
125	125	0,6	188	0,7	250	0,9
160	160	0,9	240	1,1	320	1,4
200	200	1,2	300	1,7	400	2,2
250	250	1,9	375	2,6	500	3,3
315	315	3,0	473	4,1	630	5,3
400	400	4,8	600	6,7	800	8,6
500	500	8,6	750	12,1	1000	15,6
630	630	13,2	945	18,7	1260	24,2
800	800	24,6	1200	35,0	1600	45,4
1000	1000	47,9	1500	68,8	2000	89,7
1250	1250	82,5	1875	118,9	2500	155,2

Relationship between pressure drops and flow rate for BFV90U segment bends.

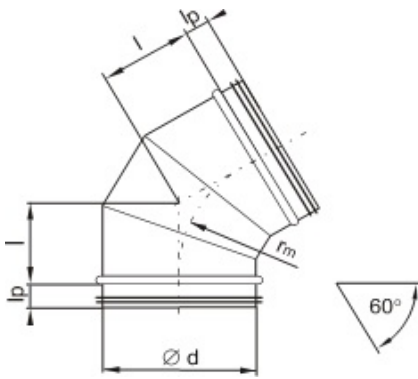
Segment bend BFV90U



Segment bend BFV60U

DESCRIPTION:

BFVU segment bend - 60°, with bend radiiuses "rm": 1 d, 1.5d, or 2d. They are made either with or without gasket.

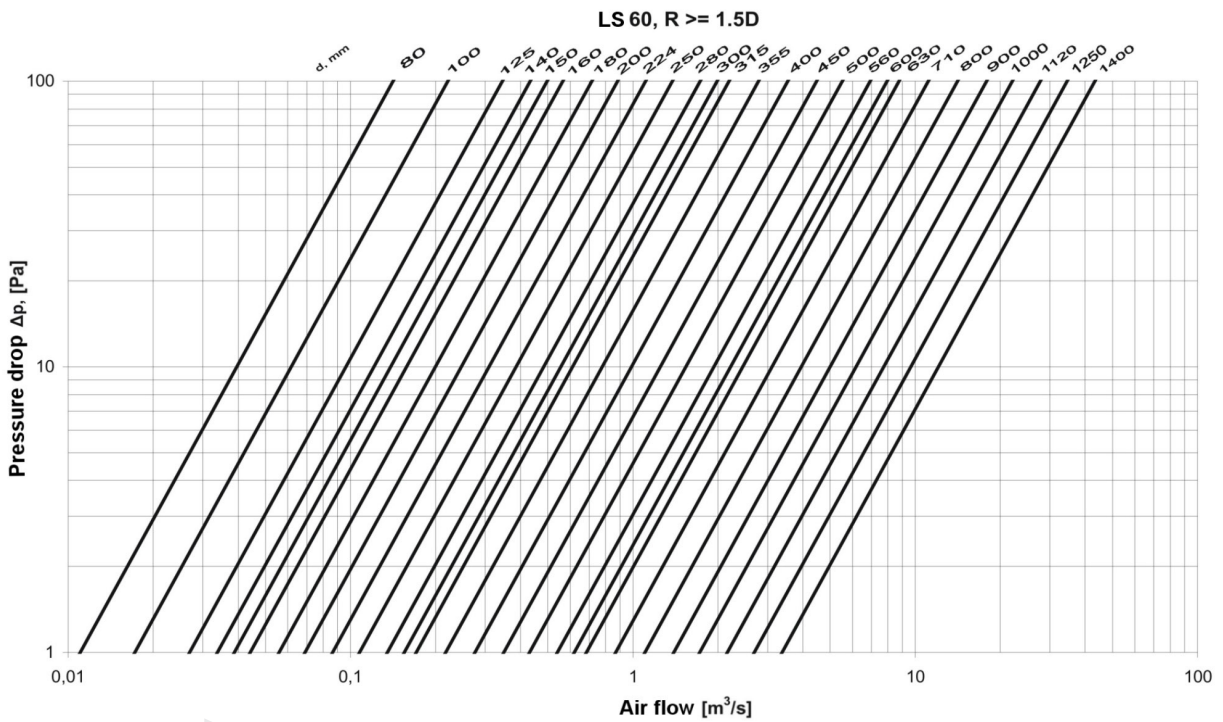
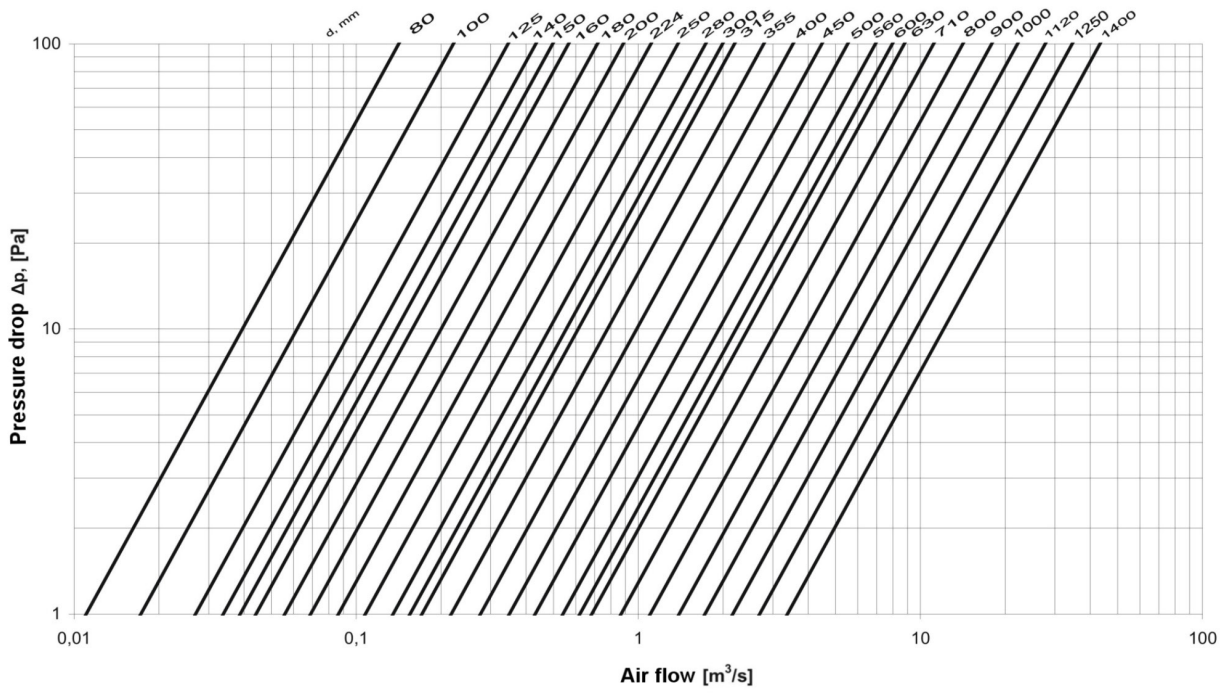


Dimensions of BFV60U segment bends.

Ød [mm]	rm = 1 d		rm = 1,5 d		rm = 2 d	
	l [mm]	Weight [kg]*	l [mm]	Weight [kg]*	l [mm]	Weight [kg]*
100	58	0,3	87	0,4	116	0,5
125	72	0,4	108	0,6	144	0,7
160	92	0,7	138	0,9	184	1,0
200	115	0,9	173	1,2	230	1,6
250	144	1,4	216	1,9	288	2,3
315	182	2,2	273	3,0	364	3,8
400	230	2,30	345	4,8	460	6,1
500	290	2,90	435	8,6	580	11,0
630	365	3,65	548	13,2	730	16,9
800	464	4,64	696	24,6	928	31,5
1000	580	5,80	870	47,9	1160	61,9
1250	725	7,25	1088	82,5	1450	106,8

Relationship between pressure drops and flow rate for BFV60U segment bends.

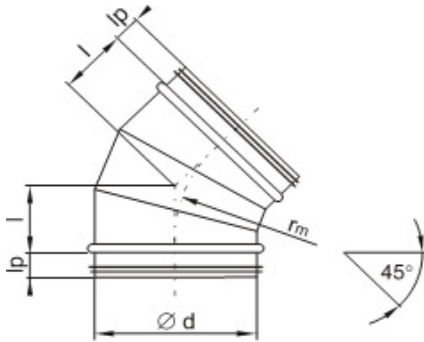
Segment bend BFV60U



Segment bend BFV45U

DESCRIPTION:

BFVU segment bend - 45°, with bend radiiuses "rm": 1 d, 1.5d, or 2d. They are made either with or without gasket.

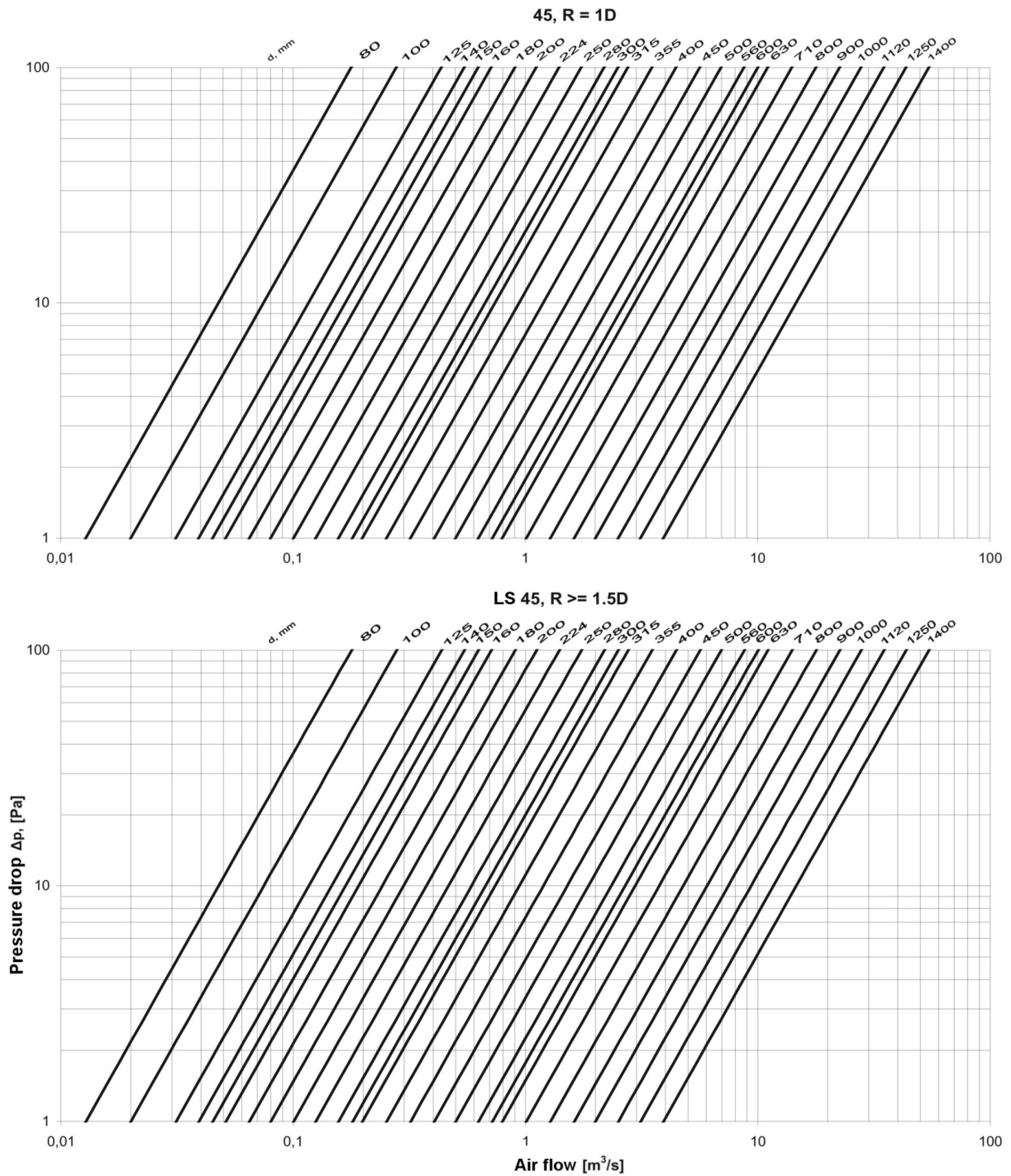


Dimensions of BFV45U segment bends.

Ød [mm]	rm = 1 d		rm = 1,5 d		rm = 2 d	
	l [mm]	Weight [kg]*	l [mm]	Weight [kg]*	l [mm]	Weight [kg]*
100	41	0,3	62	0,3	82	0,4
125	51	0,4	77	0,5	102	0,6
160	66	0,6	99	0,7	132	0,9
200	82	0,8	123	1,0	164	1,2
250	103	1,1	155	1,5	206	1,9
315	129	1,8	194	2,4	258	3,0
400	164	3,0	246	3,9	328	4,8
500	205	5,2	308	6,9	410	8,6
630	258	7,6	387	10,4	516	13,2
800	328	14,2	492	19,4	656	24,6
1000	410	27,0	615	37,5	820	47,9
1250	513	46,2	770	64,4	1026	82,5

Relationship between pressure drops and flow rate for BFV45U segment bends.

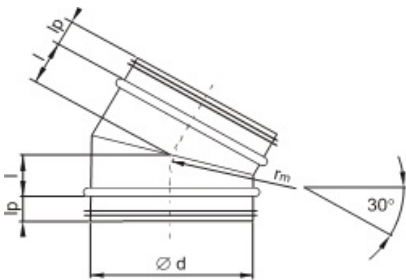
Segment bend BFV45U



Segment bend BFV30U

DESCRIPTION:

BFVU segment bend - 30°, with bend radiiuses "rm": 1 d, 1.5d, or 2d. They are made either with or without gasket.

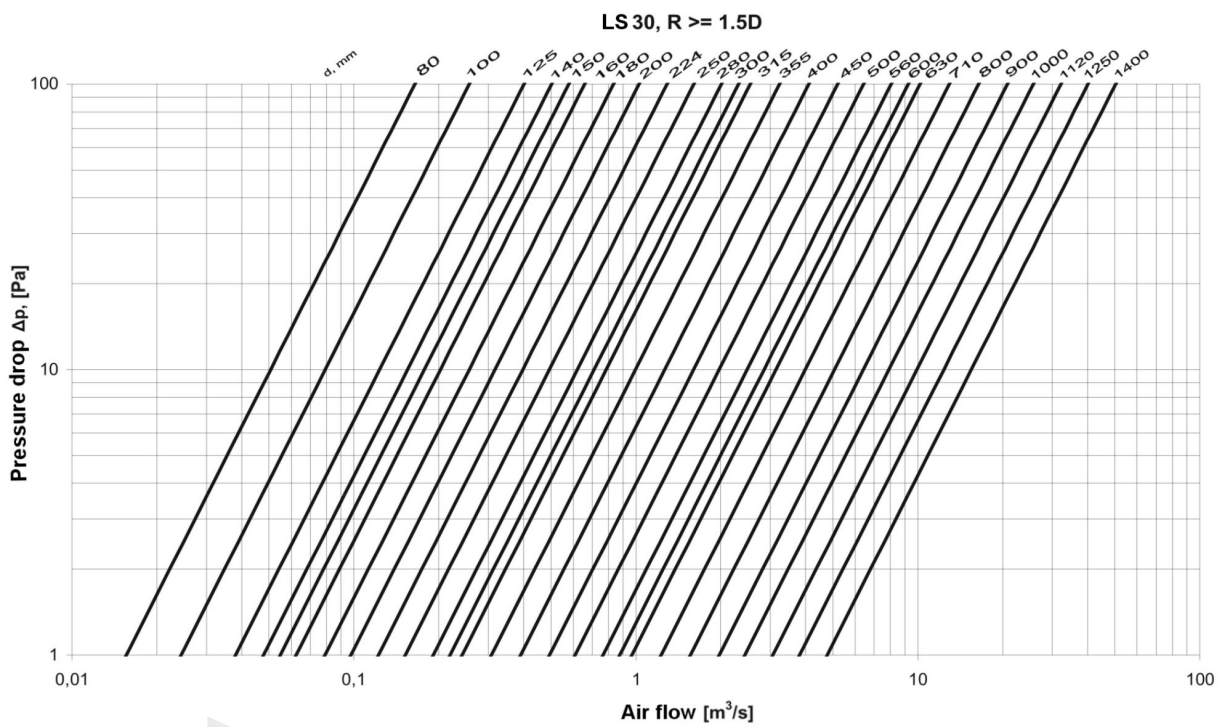
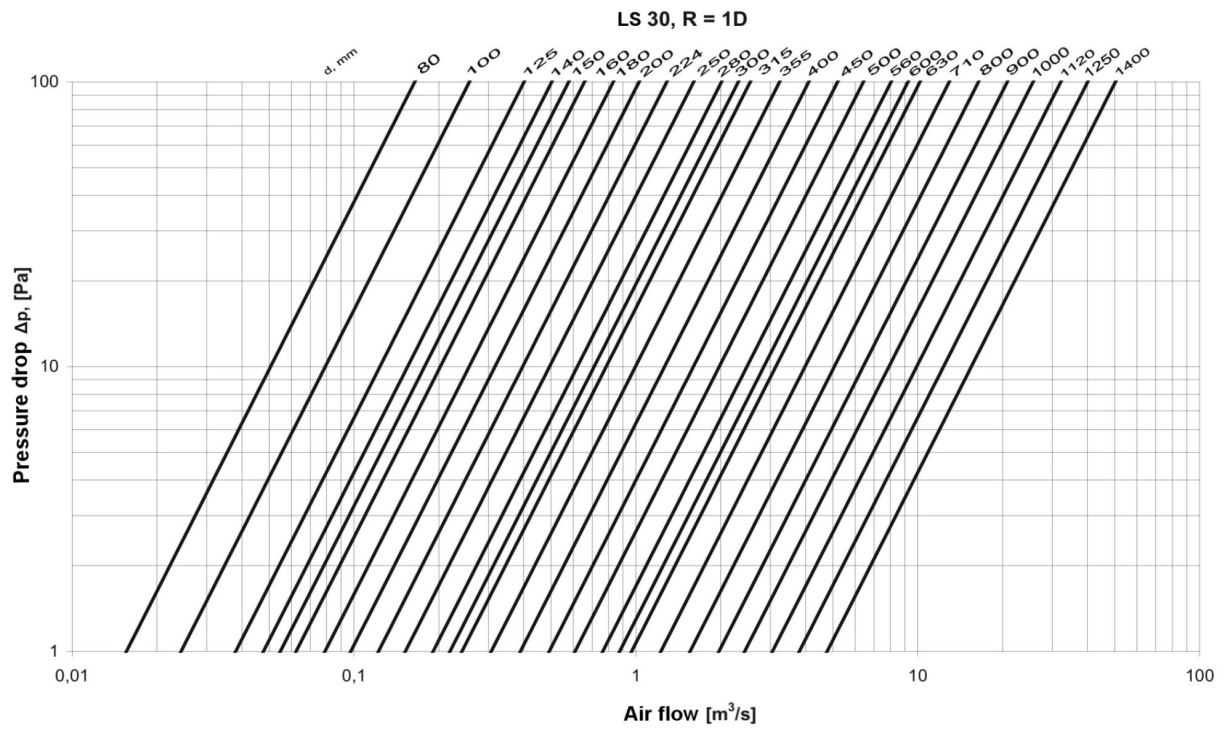


Dimensions of BFV30U segment bends.

Ød [mm]	rm = 1 d		rm = 1,5 d		rm = 2 d	
	l [mm]	Weight [kg]*	l [mm]	Weight [kg]*	l [mm]	Weight [kg]*
100	27	0,2	41	0,3	54	0,3
125	34	0,3	51	0,4	68	0,4
160	43	0,5	65	0,6	86	0,7
200	54	0,6	81	0,8	108	0,9
250	67	0,9	101	1,1	134	1,4
315	85	1,5	128	1,8	170	2,2
400	108	2,4	162	3,0	216	3,6
500	134	4,0	202	5,2	268	6,3
630	170	5,8	255	7,6	340	9,5
800	216	10,7	324	14,2	432	17,7
1000	270	20,0	405	27,0	540	34,0
1250	338	34,1	507	46,2	676	58,3

Relationship between pressure drops and flow rate for BFV30U segment bends.

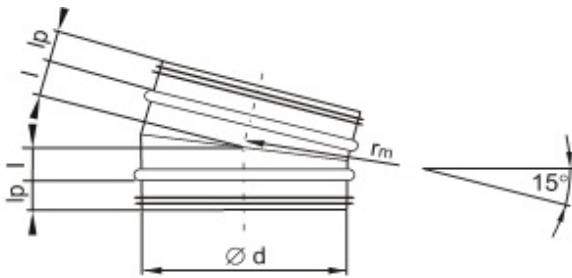
Segment bend BFV30U



Segment bend BFV15U

DESCRIPTION:

BFVU segment bend - 30°, with bend radiuses "rm": 1 d, 1.5d, or 2d. They are made either with or without gasket.

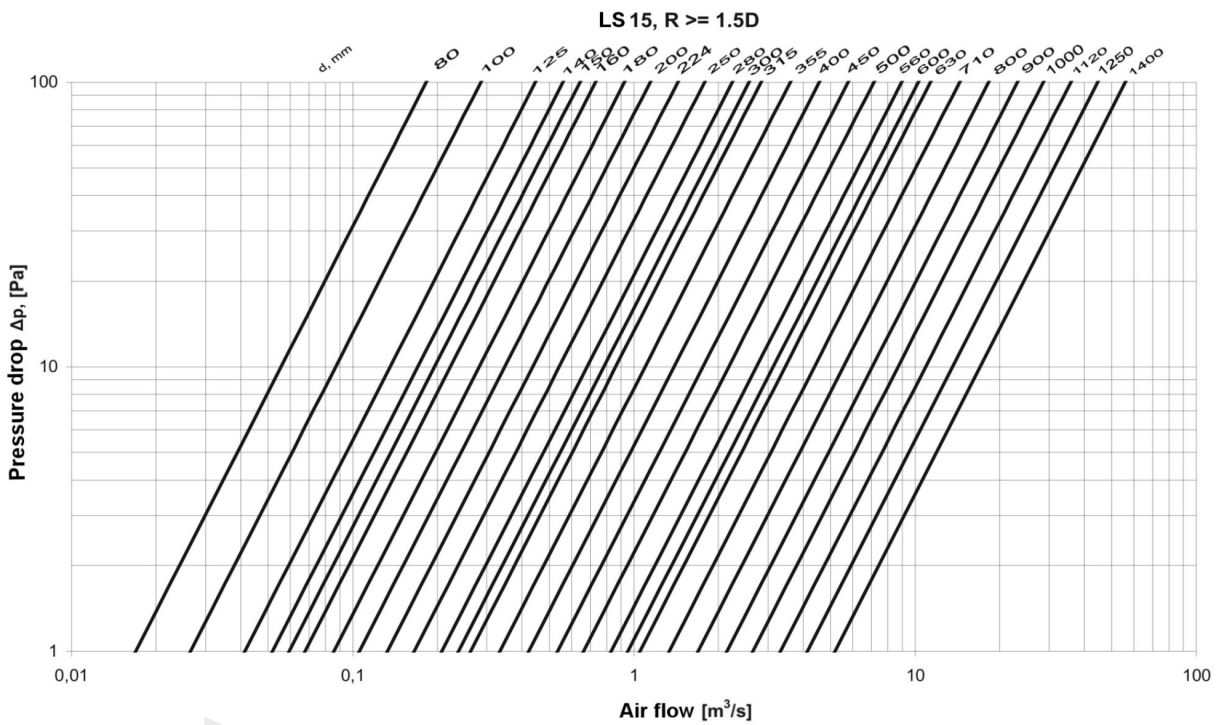
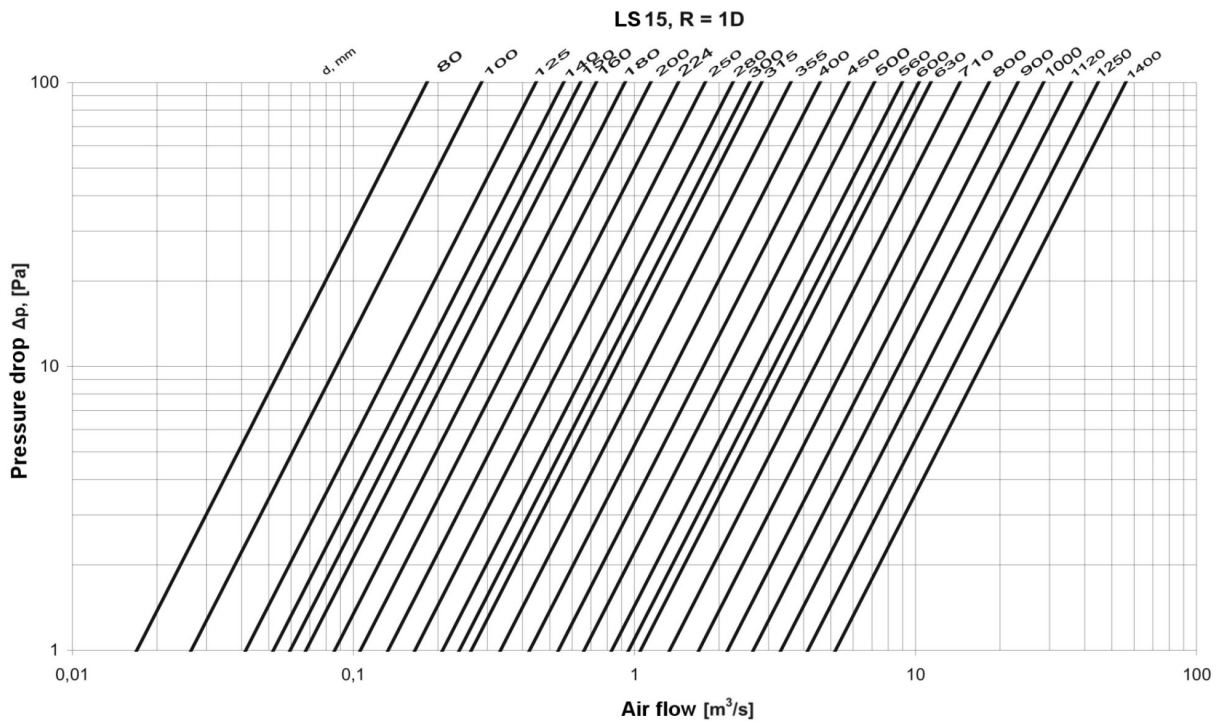


Dimensions of BFV15U segment bends.

Ød [mm]	rm = 1 d		rm = 1,5 d		rm = 2 d	
	l [mm]	Weight [kg]*	l [mm]	Weight [kg]*	l [mm]	Weight [kg]*
100	20	0,2	30	0,2	40	0,2
125	25	0,3	38	0,3	50	0,3
160	32	0,4	48	0,4	64	0,5
200	40	0,5	60	0,6	80	0,6
250	45	0,6	68	0,8	90	0,9
315	50	1,1	75	1,3	100	1,5
400	53	1,7	80	2,0	106	2,4
500	68	2,8	102	3,4	136	4,0
630	83	3,9	125	4,9	166	5,8
800	105	7,2	158	9,0	210	10,7
1000	132	13,0	198	16,5	264	20,0
1250	165	22,0	248	28,1	330	34,1

Relationship between pressure drops and flow rate for BFV15U segment bends.

Segment bend BFV15U

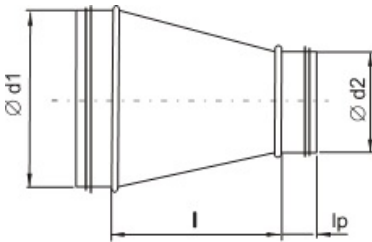


Segment bushing, symmetrical RCLVU

DESCRIPTION:

Segment bushings are made either symmetrical or asymmetrical (coaxial or out-of-line). They are available either with or without a gasket. Short bushing $l_c = 1/2 l$

Length l depends on the bushing diameters and it doesn't need to be specified in the order.



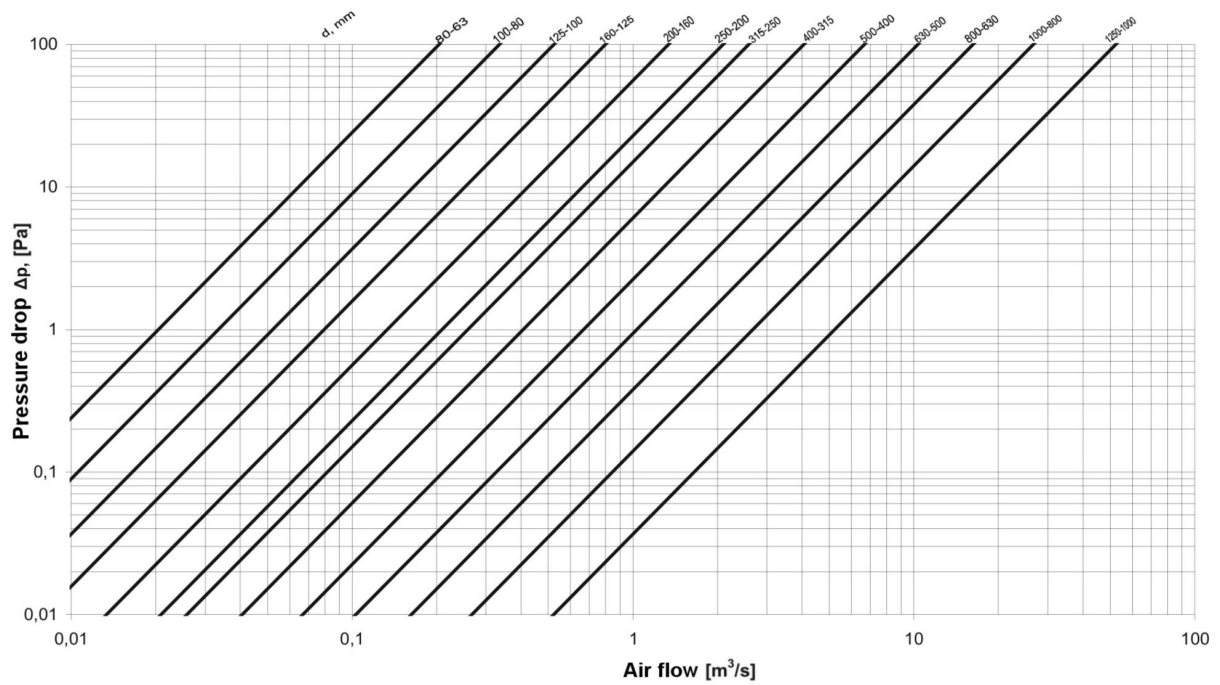
Example segment bushing dimensions.

d1 [mm]	d2 [mm]	l [mm]	Weight [kg]
125	100	64	0,3
160	100	112	0,5
160	125	78	0,4
200	100	167	0,6
200	125	133	0,6
200	160	85	0,5
250	100	236	1,0
250	125	202	1,0
250	160	154	0,9
250	200	99	0,8
315	125	291	1,4
315	160	243	1,3
315	200	188	1,2
315	250	119	1,1
400	200	310	2,2
400	250	241	2,1
400	315	152	1,9

d1 [mm]	d2 [mm]	l [mm]	Weight [kg]
500	200	447	3,4
500	250	378	3,2
500	315	289	3,0
500	400	177	2,7
630	250	557	5,6
630	315	468	5,3
630	400	356	5,0
630	500	219	4,1
800	400	594	9,0
800	500	457	8,0
800	630	279	6,5
1000	500	732	16
1000	630	553	13,9
1000	800	325	11
1250	630	897	26
1250	800	668	22,9
1250	1000	393	17,8

Relationship between pressure drops and flow rate for RCLVU symmetrical bushings.

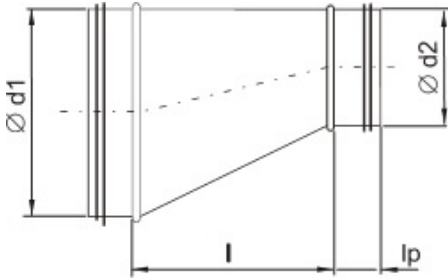
Segment bushing, symmetrical RCLVU



Segment bushing, symmetrical RLVU

DESCRIPTION:

DESCRIPTION: Segment bushings are made symmetrical or asymmetrical (coaxial or out-of-line). They are available either with or without a gasket. Short bushing $l_c = 1/2 l$ Length l depends on bushing diameters and it doesn't need to be specified in the order.



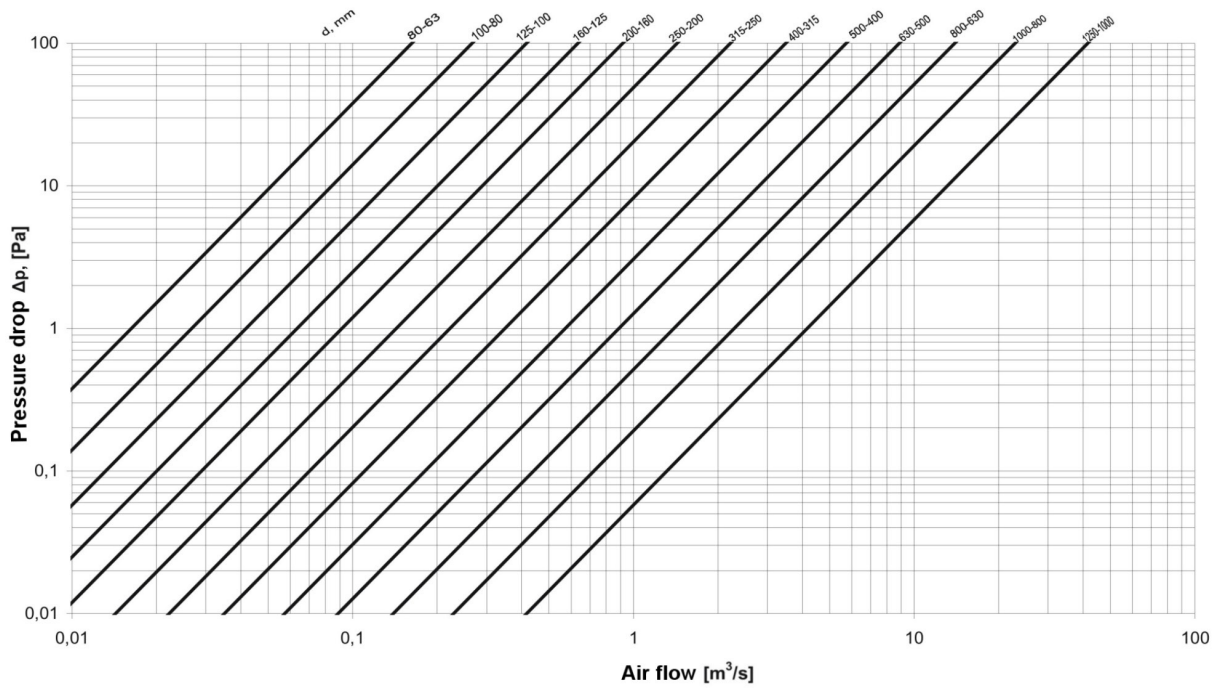
Example segment bushing dimensions.

d1 [mm]	d2 [mm]	l [mm]	Weight [kg]
125	100	64	0,3
160	100	112	0,5
160	125	78	0,4
200	100	167	0,6
200	125	133	0,6
200	160	85	0,5
250	100	236	1,0
250	125	202	1,0
250	160	154	0,9
250	200	99	0,8
315	125	291	1,4
315	160	243	1,3
315	200	188	1,2
315	250	119	1,1
400	200	310	2,2
400	250	241	2,1
400	315	152	1,9

d1 [mm]	d2 [mm]	l [mm]	Weight [kg]
500	200	447	3,4
500	250	378	3,2
500	315	289	3,0
500	400	177	2,7
630	250	557	5,6
630	315	468	5,3
630	400	356	5,0
630	500	219	4,1
800	400	594	9,0
800	500	457	8,0
800	630	279	6,5
1000	500	732	16
1000	630	553	13,9
1000	800	325	11
1250	630	897	26
1250	800	668	22,9
1250	1000	393	17,8

Relationship between pressure drops and flow rate for RLVU asymmetrical bushings.

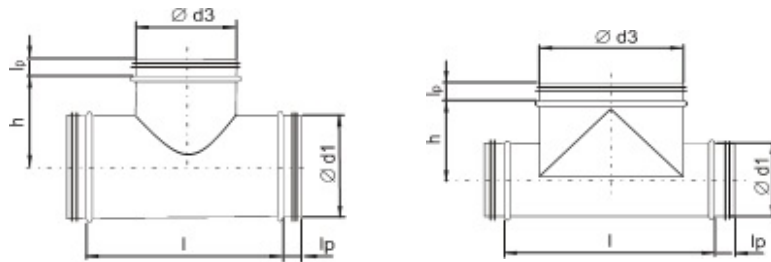
Segment bushing, symmetrical RLVU



Tee TCPVU Ød1 Ød3

DESCRIPTION:

Lengths of connection stubs:
 Ø100 - Ø250 = 40 mm
 Ø315 = 60 mm
 Ø400 - Ø630 = 80 mm
 Ø800 - Ø1000 = 100 mm
 Ø1250 = 120 mm
 h = 100 - 250 mm



Dimensions of TCPVU tees.

Ød1 [mm]	Ød3 [mm]	l [mm]	h [mm]	Weight [kg]	Ød1 [mm]	Ød3 [mm]	l [mm]	h [mm]	Weight [kg]
100	100	130	65	0,3	250	100	130	145	0,7
100	125	225	110	0,5	250	125	166	145	0,9
100	160	260	120	0,6	250	160	210	150	1,1
125	100	132	76	0,4	250	200	250	150	1,3
125	125	166	83	0,5	250	250	300	150	1,6
125	160	197	130	0,7	250	315	395	220	2,3
125	200	237	130	0,8	250	400	500	210	2,8
160	100	130	96	0,5	315	100	130	173	0,8
160	125	166	96	0,6	315	125	165	178	1,1
160	160	210	105	0,8	315	160	210	183	1,4
160	200	300	175	1,1	315	200	250	183	1,6
160	250	350	175	1,3	315	250	300	183	1,9
200	100	130	117	0,6	315	315	366	183	2,9
200	125	166	120	0,7	315	400	500	300	3,7
200	160	210	120	0,9	315	500	600	260	4,3
200	200	250	125	1,0					
200	250	350	180	1,5					
200	315	415	190	2,0					

Relationship between pressure drop and flow rate for tee d1 - d3.

Tee TCPVU Ød1 Ød3

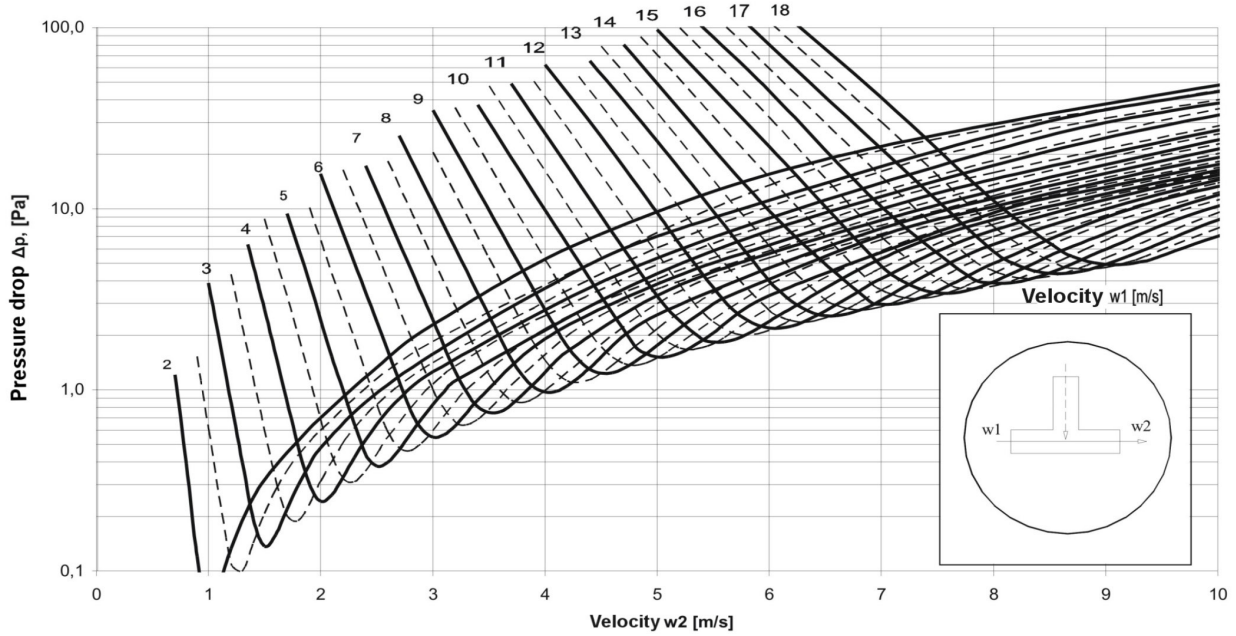
Dimensions of TCPVU tees.

Ød1 [mm]	Ød3 [mm]	l [mm]	h [mm]	Weight [kg]
400	100	130	215	1,1
400	125	166	220	1,3
400	160	210	226	1,7
400	200	250	226	2,0
400	250	300	226	2,4
400	315	366	226	3,0
400	400	450	226	3,7
400	500	580	315	6,3
400	630	730	335	8,2
500	125	165	270	2,0
500	160	210	272	2,5
500	200	250	275	3,0
500	250	300	275	3,6
500	315	366	275	4,4
500	400	450	275	5,5
500	500	550	275	6,8
500	630	730	340	9,4
500	800	900	380	12,3
630	200	250	345	3,7
630	250	300	345	4,5
630	315	366	345	5,6
630	400	450	345	6,9
630	500	550	345	8,5
630	630	690	345	10,6
630	800	900	405	16,9
630	1000	1100	415	21,1

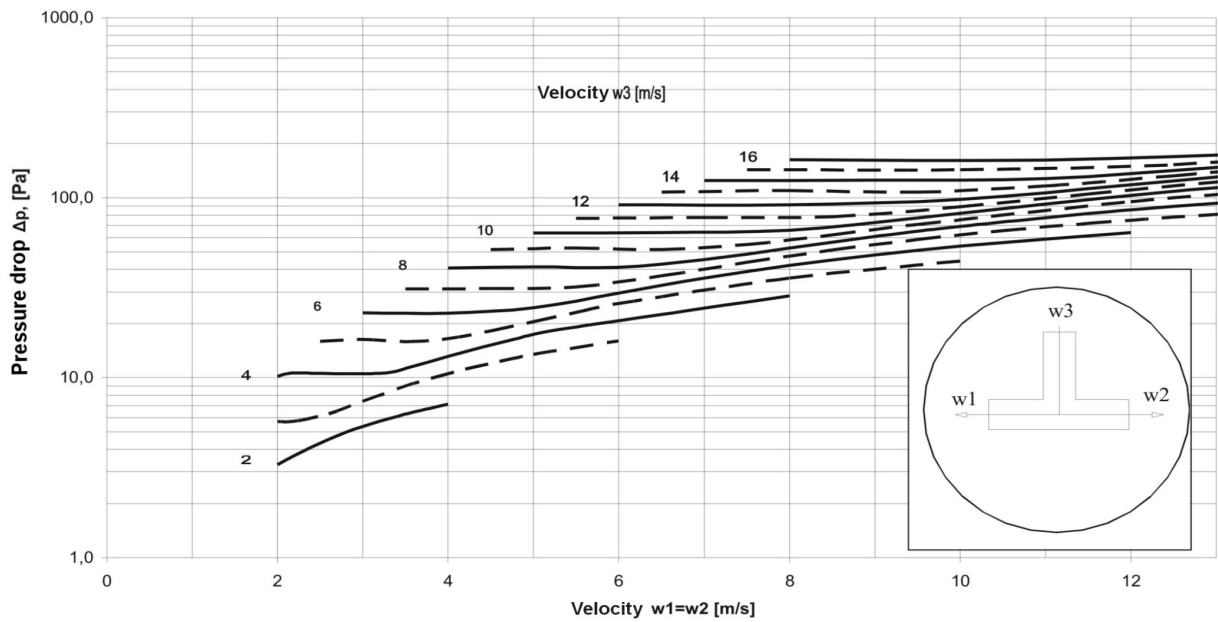
Ød1 [mm]	Ød3 [mm]	l [mm]	h [mm]	Weight [kg]
800	200	270	430	5,8
800	250	320	430	6,9
800	315	365	430	8,2
800	400	450	430	10,1
800	500	550	430	12,5
800	630	690	430	15,6
800	800	860	430	19,6
800	1000	1100	490	33,5
800	1250	1350	490	41,3
1000	315	365	530	13,0
1000	400	450	530	16,2
1000	500	550	530	19,9
1000	630	690	530	25,0
1000	800	860	530	31,4
1000	1000	1060	530	38,9
1000	1250	1350	590	51,0
1250	500	550	655	27,6
1250	630	690	655	34,7
1250	800	860	655	43,4
1250	1000	1060	655	53,8
1250	1250	1310	655	66,8

Tee TCPVU Ød1 Ød3

T 90 - Air stream connection

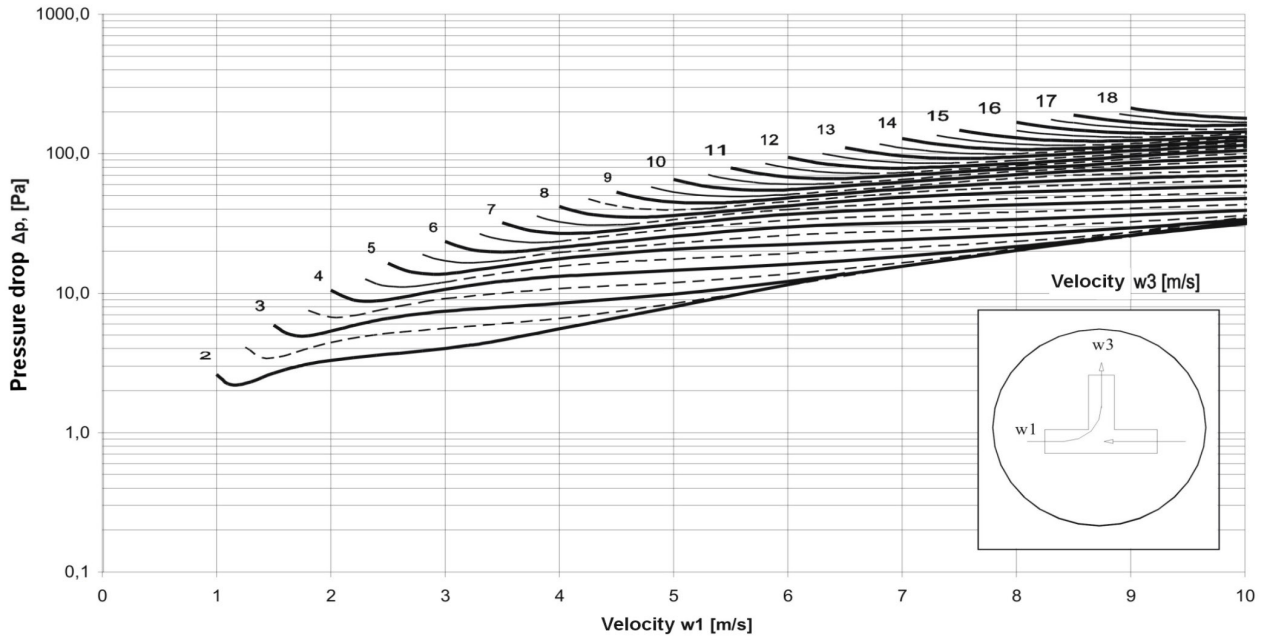


T 90 - Air stream division

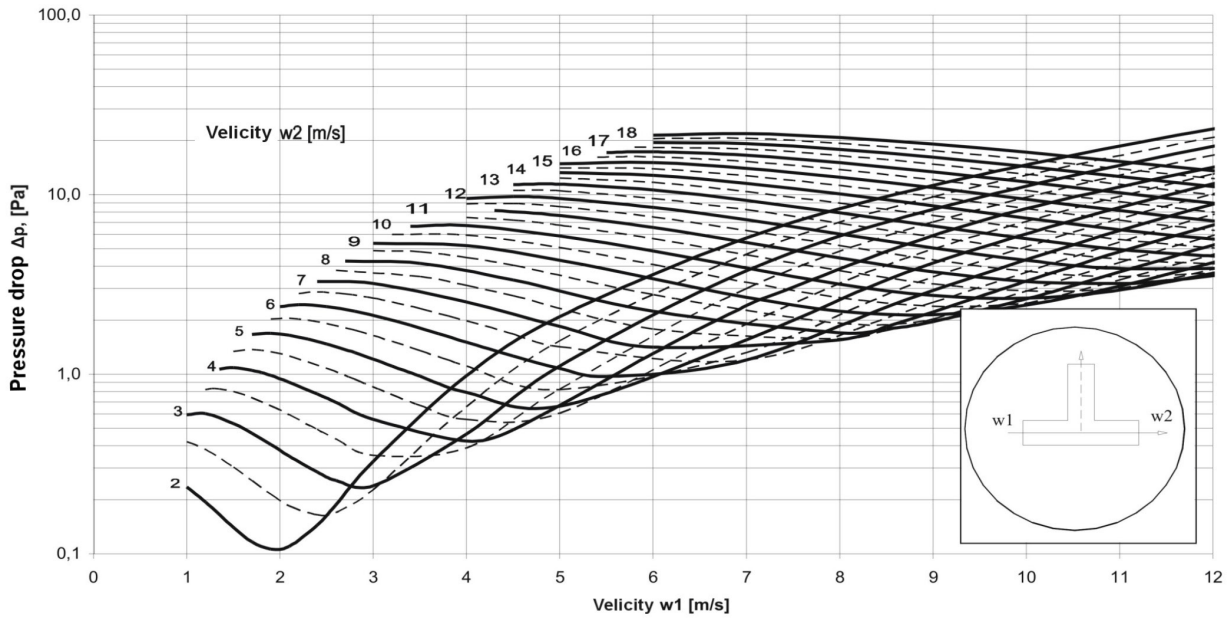


Tee TCPVU Ød1 Ød3

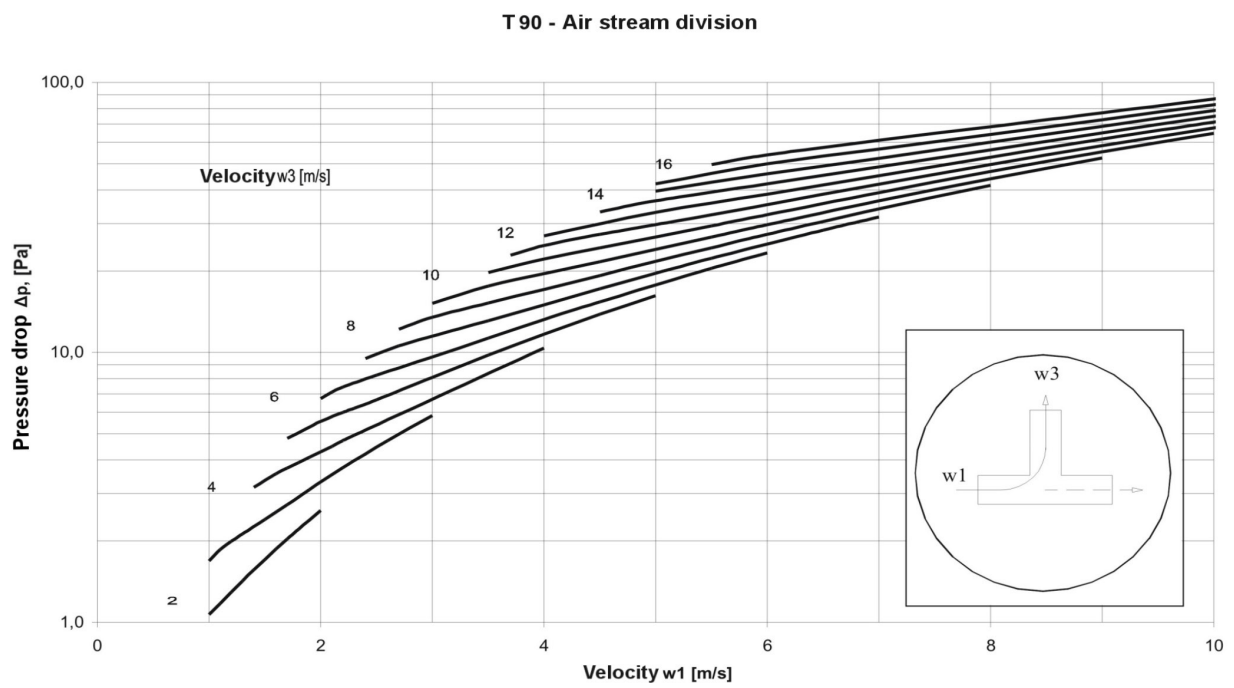
T90 Air streams connection



T 90 - Air stream division

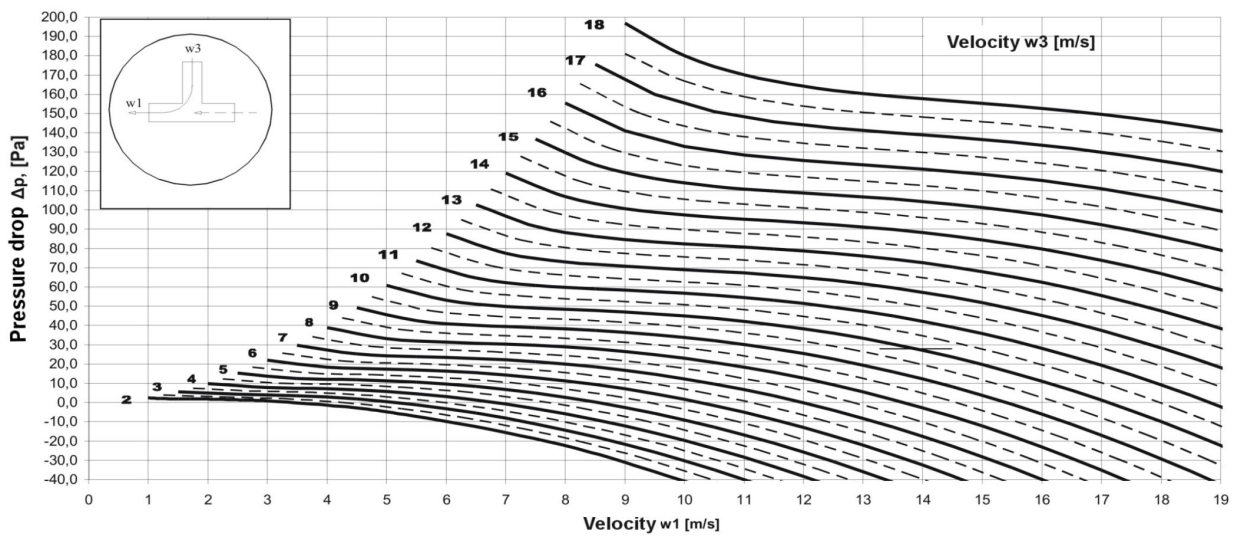


Tee TCPVU Ød1 Ød3



Tee TCPVU Ød1 Ød3

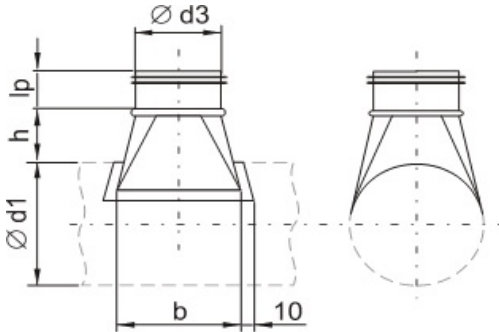
T 90 Air streams connection



Saddle cover TSTCVU

DESCRIPTION:

TSTCVU saddle covers - symmetrical. Cover axis crosses conduit axis. $h = 100 - 250$ mm



Example dimensions of TSTCVU saddle covers.

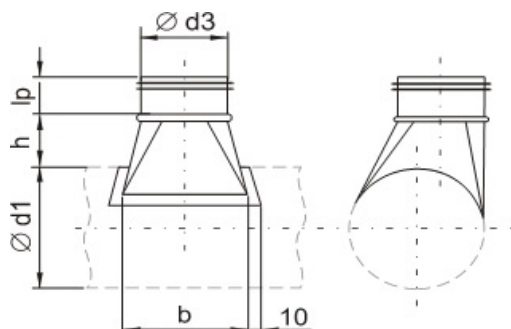
$\varnothing d1$ [mm]	$\varnothing d3$ [mm]	l [mm]	Weight [kg]
100	100	190	0,2
125	100	190	0,2
125	125	215	0,3
160	100	190	0,2
160	125	215	0,3
160	160	260	0,4
200	100	190	0,2
200	125	215	0,3
200	160	260	0,4
200	200	285	0,6
250	100	190	0,2
250	125	215	0,3
250	160	260	0,4
250	200	330	0,6
250	250	380	1,0
315	100	190	0,2
315	125	215	0,3
315	160	260	0,4
315	200	330	0,6
315	250	380	1,1
315	315	465	1,5

$\varnothing d1$ [mm]	$\varnothing d3$ [mm]	l [mm]	Weight [kg]
400	100	190	0,2
400	125	215	0,3
400	160	260	0,4
400	200	330	0,6
400	250	380	1,1
400	315	465	1,5
400	400	570	2,4
500	125	215	0,3
500	160	260	0,4
500	200	330	0,6
500	250	380	1,1
500	315	465	1,6
500	400	570	2,4
630	200	330	0,6
630	250	380	1,1
630	315	465	1,6
630	400	570	2,5

Saddle cover TSTIVU

DESCRIPTION:

TSTIVU saddle covers - asymmetrical. Cover axis is shifted relative to conduit axis.
h = 100 - 250 mm



Example dimensions of TSTIVU saddle covers.

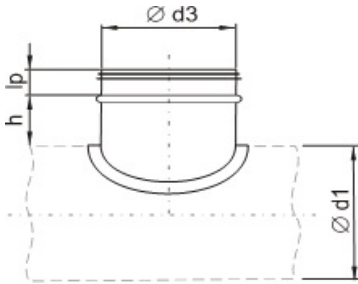
Ød1 [mm]	Ød3 [mm]	l [mm]	Weight [kg]
100	100	190	0,2
125	100	190	0,2
125	125	215	0,3
160	100	190	0,2
160	125	215	0,3
160	160	260	0,4
200	100	190	0,2
200	125	215	0,3
200	160	260	0,4
200	200	285	0,6
250	100	190	0,2
250	125	215	0,3
250	160	260	0,4
250	200	330	0,6
250	250	380	1,0
315	100	190	0,2
315	125	215	0,3

Ød1 [mm]	Ød3 [mm]	l [mm]	Weight [kg]
315	160	260	0,4
315	200	330	0,6
315	250	380	1,1
315	315	465	1,5
400	100	190	0,2
400	125	215	0,3
400	160	260	0,4
400	200	330	0,6
400	250	380	1,1
400	315	465	1,5
400	400	570	2,4
500	125	215	0,3
500	160	260	0,4
500	200	330	0,6
500	250	380	1,1
500	315	465	1,6
500	400	570	2,4
630	200	330	0,6
630	250	380	1,1
630	315	465	1,6
630	400	570	2,5

Saddle cover PSVU

DESCRIPTION:

PSVU saddle cover is symmetrical.



Example dimensions of PSVU saddle covers.

Ød1 [mm]	Ød3 [mm]	h [mm]	Weight [kg]
100	100	60	0,2
125	100	60	0,2
125	125	60	0,3
160	100	60	0,2
160	125	60	0,3
160	160	60	0,4
200	100	60	0,2
200	125	60	0,3
200	160	60	0,3
200	200	60	0,5
250	100	60	0,2
250	125	60	0,2
250	160	60	0,4
250	200	60	0,5
250	250	60	0,9
315	100	60	0,2
315	125	60	0,2
315	160	60	0,3
315	200	60	0,5
315	250	60	0,7
315	315	60	1,1
400	100	60	0,2
400	125	60	0,3
400	160	60	0,3
400	200	60	0,5

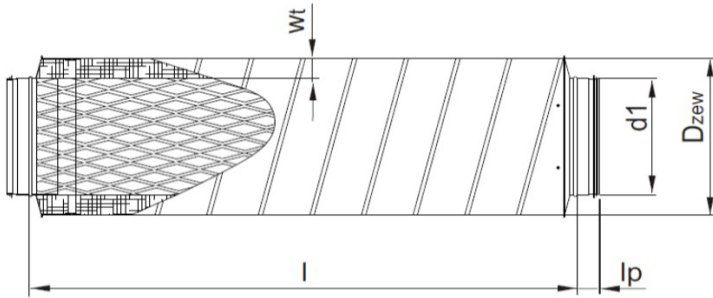
Ød1 [mm]	Ød3 [mm]	l [mm]	Weight [kg]
400	250	60	0,7
400	315	60	1,0
400	400	90	1,3
450	125	60	0,3
450	160	60	0,3
450	200	60	0,5
450	250	60	0,7
450	315	60	0,9
450	400	90	1,7
500	125	60	0,3
500	160	60	0,3
500	200	60	0,5
500	250	60	0,7
500	315	60	0,9
500	400	90	1,7
630	200	60	0,5
630	250	60	0,5
630	315	60	1,0
630	400	90	1,7

Noise silencer SLVU

DESCRIPTION:

SLVU silencer is designed for mounting in Spiro and B1 type installations. The attenuator housing is made of zinc-coated steel sheet. Mineral wool protected with perforated sheet is used as sound absorbing material. In a standard version, SLVU attenuators are equipped with gaskets.

wt - attenuating layer. Glass wool insulation.



Range of SLVU50 silencers with 50 mm insulation.

Type	Ød1 [mm]	ØD ext. [mm]	Insulation thickness [mm]	L [mm]	Weight [kg]*
SLVU 100/50	98	200	50	300/600/900/1200	2,0/3,2/4,3/5,5
SLVU 125/50	123	224	50	300/600/900/1200	2,3/3,7/5,0/6,3
SLVU 160/50	158	250	50	300/600/900/1200	2,8/4,3/5,9/7,4
SLVU 200/50	198	300	50	300/600/900/1200	3,5/5,3/7,2/9,0
SLVU 250/50	248	400	50	300/600/900/1200	4,4/6,6/8,8/11,0
SLVU 315/50	313	400	50	600/900/1200	8,1/10,6/13,1
SLVU 400/50	398	500	50	600/900/1200	11,2/14,7/18,2
SLVU 500/50	498	600	50	600/900/1200	13,8/18,0/22,2
SLVU 630/50	628	710	50	600/900/1200	19,3/25,1/30,8

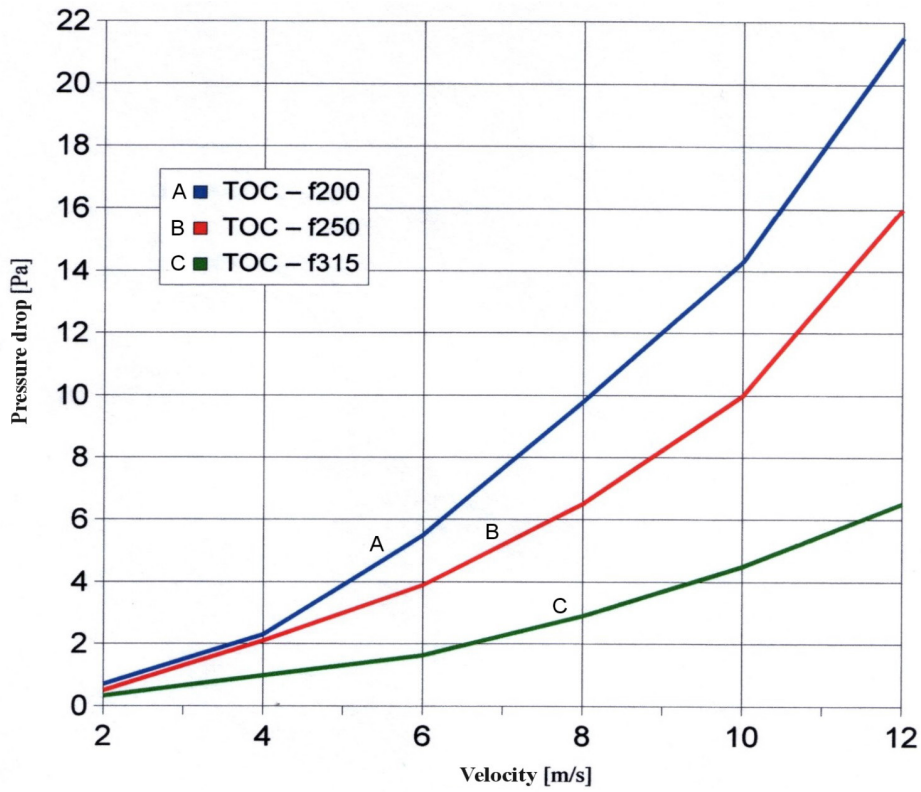
Example hydraulic resistances of attenuators, length $l = 900$ mm.

Noise silencer SLVU

Range of SLVU50 silencers with 50 mm insulation.

Diameter Ød1 [mm]	Diameter ØDzew [mm]	l [mm]	Acoustic insulation thickness [mm]	Sound attenuation [dB] for frequency [Hz]							
				63	125	250	500	1000	2000	4000	8000
100	200	300	50	4	5	14	20	30	22	20	17
100	200	600	50	4	5	15	27	48	29	25	18
100	200	900	50	6	8	17	36	50	39	31	23
100	200	1200	50	7	9	21	39	50	40	27	24
125	225	300	50	4	5	12	17	19	15	18	15
125	225	600	50	4	5	12	18	30	19	19	16
125	225	900	50	5	7	14	32	45	38	30	21
125	225	1200	50	6	8	15	36	49	38	23	22
160	250	300	50	3	4	10	13	15	14	12	11
160	250	600	50	3	4	12	20	28	25	21	15
160	250	900	50	4	6	14	29	43	35	28	19
160	250	1200	50	6	8	17	34	47	38	36	23
200	300	300	50	2	3	6	9	15	13	9	7
200	300	600	50	2	4	7	14	19	17	13	9
200	300	900	50	3	6	11	25	40	29	19	16
200	300	1200	50	4	7	13	28	48	34	23	18
250	355	300	50	1	2	4	8	14	10	7	6
250	355	600	50	2	3	6	12	15	11	9	7
250	355	900	50	2	4	9	17	30	23	18	16
250	355	1200	50	2	4	11	24	45	26	22	17
315	400	600	50	1	2	6	11	14	9	5	4
315	400	900	50	1	3	7	14	26	20	14	12
315	400	1200	50	2	3	7	18	21	23	15	14

Noise silencer SLVU

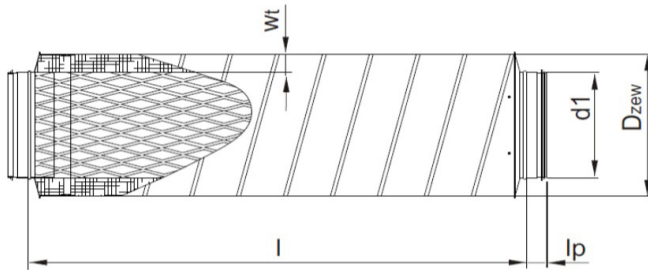


Noise silencer SLVU

DESCRIPTION:

SLVU silencer is designed for mounting in Spiro and B1 type installations. The attenuator housing is made of zinc-coated steel sheet. Mineral wool protected with perforated sheet is used as sound absorbing material. In a standard version, SLVU attenuators are equipped with gaskets.

wt - attenuating layer. Glass wool insulation.



Range of SLVU100 silencers with 100 mm insulation.

Type	Ød1 [mm]	ØD ext. [mm]	Insulation thickness [mm]	L [mm]	Weight [kg]*
SLVU 100/50	98	300	100	300/600/900/1200	3,6/5,7/7,6/9,8
SLVU 125/50	123	315	100	300/600/900/1200	3,9/6,1/8,4/10,6
SLVU 160/50	158	355	100	300/600/900/1200	4,5/7,1/9,6/12,2
SLVU 200/50	198	400	100	300/600/900/1200	5,4/8,3/11,2/14,1
SLVU 250/50	248	450	100	300/600/900/1200	6,6/10,5/14,2/17,8
SLVU 315/50	313	500	100	600/900/1200	12,2/16,3/20,4
SLVU 400/50	398	600	100	600/900/1200	15,2/20,2/25,1
SLVU 500/50	498	710	100	600/900/1200	20,0/25,9/31,8
SLVU 630/50	628	800	100	600/900/1200	23,1/30,0/36,8

Example hydraulic resistances of attenuators, length $l = 900$ mm.

Noise silencer SLVU

Acoustic characteristics of SLVU with 100 mm attenuating layer.

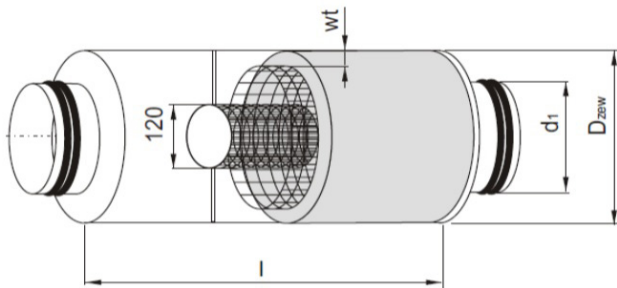
Diameter Ød1 [mm]	Diameter ØDzew [mm]	l [mm]	Acoustic insulation thickness [mm]	Sound attenuation [dB] for frequency [Hz]							
				63	125	250	500	1000	2000	4000	8000
100	300	300	100	5	10	18	35	47	38	20	19
100	300	600	100	6	14	22	44	50	43	25	23
100	300	900	100	8	16	25	47	50	49	32	26
100	300	1200	100	7	18	29	48	50	50	43	27
125	315	300	100	5	8	16	30	44	33	18	16
125	315	600	100	6	12	20	41	50	40	23	21
125	315	900	100	7	14	22	43	50	44	26	25
125	315	1200	100	7	16	26	45	50	46	26	24
160	355	300	100	4	6	12	19	20	19	18	17
160	355	600	100	5	8	14	26	34	29	23	21
160	355	900	100	5	10	16	33	45	31	24	23
160	355	1200	100	6	12	19	38	50	39	25	24
200	400	600	100	5	8	14	26	34	29	23	21
200	400	900	100	5	10	15	33	45	31	24	23
200	400	1200	100	5	12	19	36	49	35	25	24
250	450	600	100	3	4	10	15	21	16	13	8
250	450	900	100	4	7	14	26	33	21	17	12
250	450	1200	100	4	8	19	35	45	32	20	14
315	500	600	100	2	3	8	13	18	12	11	6
315	500	900	100	3	5	13	25	25	19	14	11
315	500	1200	100	4	8	17	28	33	23	14	13
400	600	900	100	1	3	7	14	23	18	12	10
400	600	1200	100	2	5	12	25	28	21	13	11
500	710	900	100	1	2	6	13	18	15	10	8
500	710	1200	100	2	4	10	16	22	18	11	8
630	800	900	100	0	1	5	8	12	10	7	5
630	800	1200	100	1	2	7	12	16	14	9	6

Noise silencer PVAPVU

DESCRIPTION:

PVAPVU noise suppressors are used to attenuate the noise transmitted by ventilation equipment. They are installed in ventilation ducts with a circular cross-section. They are characterised by very low flow resistances. The attenuator casing is made of zinc-coated steel sheet. The internal core is made of perforated steel sheet. The space between conduits is filled with attenuating material. In a standard version, the suppressor is equipped with rubber gasket.

Glass wool insulation. Gasket in standard version

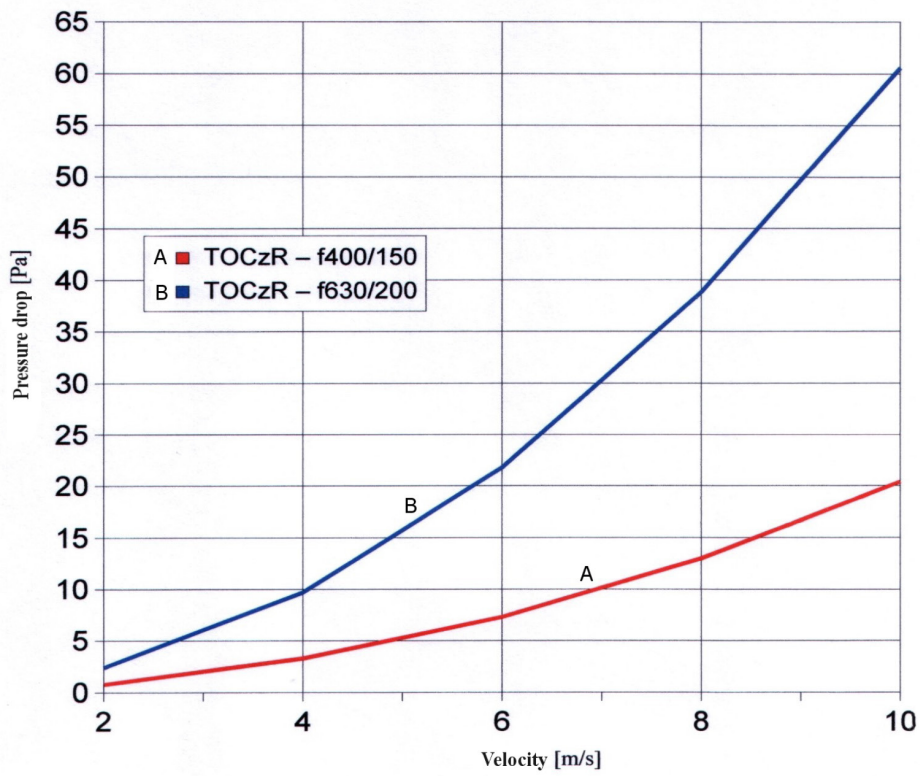


Acoustic characteristics of PVAPVU with 100mm attenuating layer.

Diameter $\varnothing d1$ [mm]	Diameter $\varnothing D_{zew}$ [mm]	Pef [m2]	l [mm]	Acoustic insulation thickness [mm]
400	600	0,102	600	100
400	600	0,102	900	100
500	700	0,165	600	100
500	700	0,165	900	100
630	830	0,279	600	100
630	830	0,279	900	100
800	1000	0,429	900	100
1000	1200	0,665	900	100

Example hydraulic resistances of attenuators, length $l = 900$ mm.

Noise silencer PVAPVU

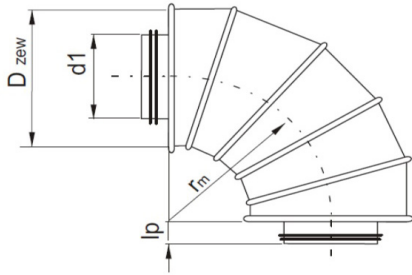


Attenuating bend BSLVU

DESCRIPTION:

BSLVU attenuating bend is used in such ventilating installations, where spatial conditions make it impossible to fit other suppressors. Provided with 50 or 100mm acoustic insulation. Glass wool insulation - ISOVER Ultimate U MFN 16.

Gasket in a standard version.



Example dimensions of BSLVU attenuating bends with 50 mm-thick insulation.

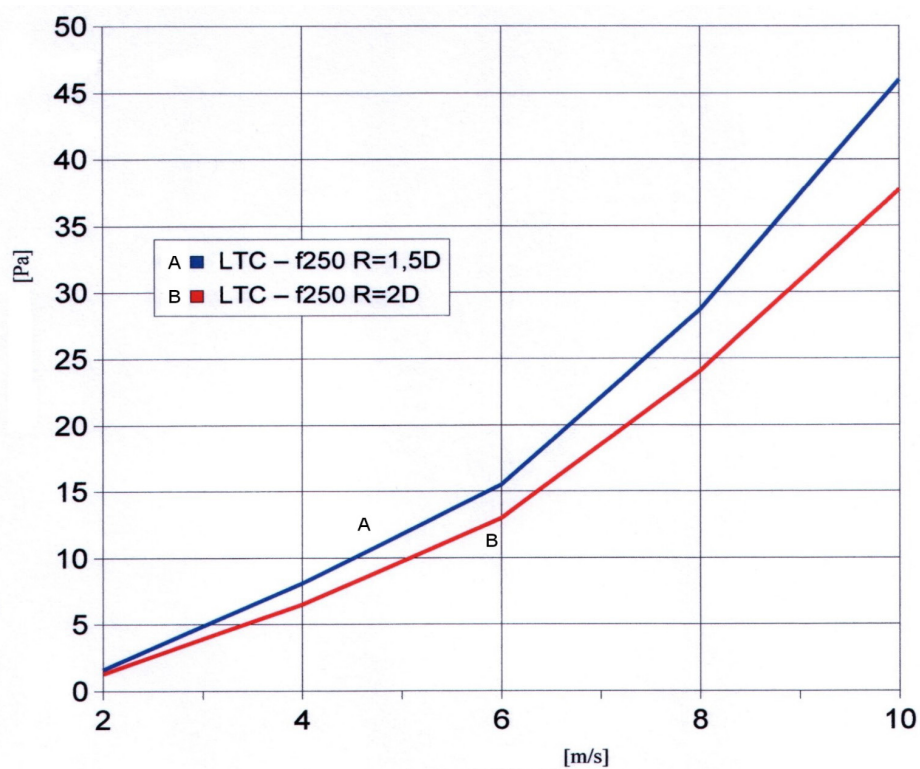
Diameter $\varnothing d1$ [mm]	Diameter $\varnothing D_{zew}$ [mm]	P_{ef} [m ²]	l [mm]	Acoustic insulation thickness [mm]
125	224	2 d1	50	100
160	260	2 d1	50	100
200	315	2 d1	50	100
250	355	2 d1	50	100
315	450	2 d1	50	100
400	500	2 d1	50	100

Hydraulic resistances of BSLVU attenuating bends.

Attenuating bend BSLVU

Example dimensions of BSLVU attenuating bends with 100 mm-thick insulation.

Diameter $\varnothing d1$ [mm]	Diameter $\varnothing D_{zew}$ [mm]	P _{ef} [m ²]	l [mm]	Acoustic insulation thickness [mm]
125	315	2 d1	100	100
160	355	2 d1	100	100
200	400	2 d1	100	100
250	450	2 d1	100	100
315	500	2 d1	100	100
400	600	2 d1	100	100
500	710	2 d1	100	100
630	850	2d1	100	100



Damper DTVU, DSVU, DRVU

DESCRIPTION:

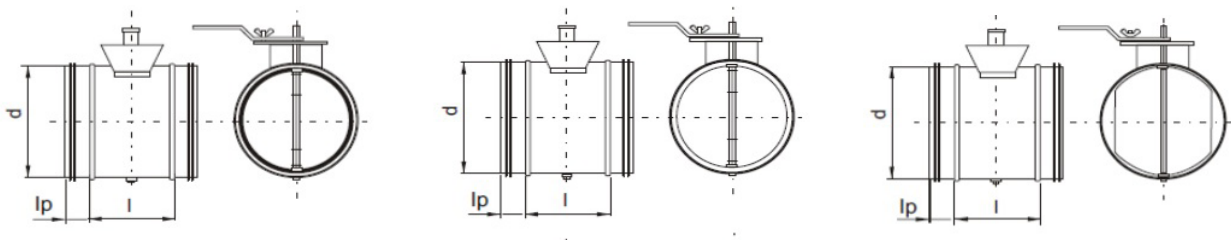
Manually operated DTVU, DSVU, DRVU type dampers are delivered in versions allowing the installation of an electric actuator. They are produced in three versions:

DTVU - hermetic, with rubber sealing along the perimeter of adjusting flap, used when it is necessary to fully cut off air flow.

DSVU - no adjusting flap sealing, used to control flow in pipe laterals.

DRVU - adjusting damper, makes it impossible to fully cut off air stream flow, used to control output - for example in expansion boxes or air inlets.

Gasket on connection stub.



Damper DETVU, DESVU, DERVU

DESCRIPTION:

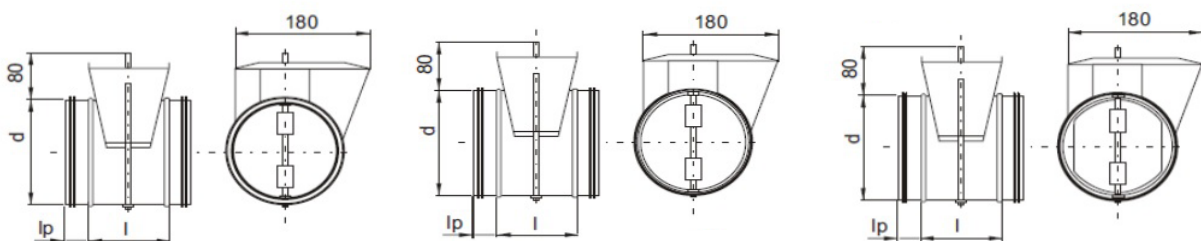
Electrically operated DETVU, DESVU, DERVU type dampers are made so as to allow them to be wrapped with insulation. They have brazen or steel bushes, which stabilise flap axis. They are used in the shipbuilding industry and have increased resistance to temperature.

These dampers are produced in three versions:

DETVU - hermetic, with rubber sealing along the perimeter of adjusting flap, used when it is necessary to fully cut off air flow.

DESVU - no adjusting flap sealing, used to control outputs in pipe laterals.

DERVU - adjusting damper, makes it impossible to fully cut off air stream flow, used to control output - for example in expansion boxes or air inlets.



Damper DCTVU, DCSVU, DCRVU

DESCRIPTION:

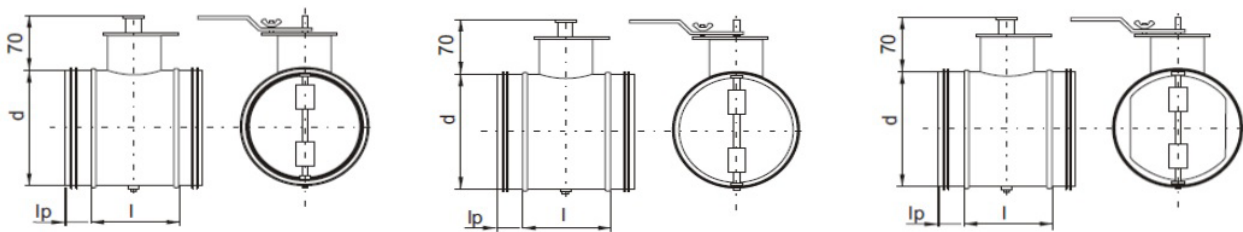
Manually operated DCTVU, DCSVU, DCRVU type dampers are made so as to allow them to be wrapped with insulation. They have brazen or steel bushes, which stabilise flap axis. They are used in the shipbuilding industry and have increased resistance to temperature.

These dampers are produced in three versions:

DCTVU - hermetic, with rubber sealing along the perimeter of the adjusting flap, used when it is necessary to fully cut off air flow.

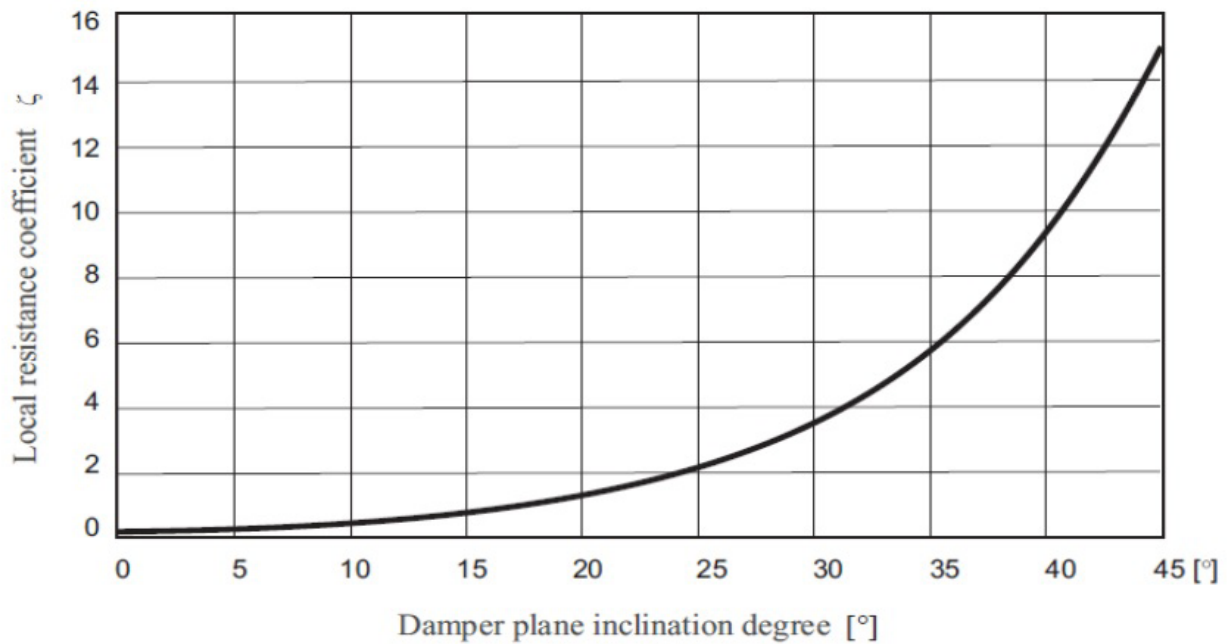
DCSVU - no adjusting flap sealing, used to control outputs in pipe laterals.

DCRVU - adjusting damper, makes it impossible to fully cut off air stream flow, used to control output - for example in air inlets.



Example dimensions of dampers.

d [mm]	l [mm]	Weight [kg]			l [mm]	Weight [kg]			Type	Torque [Nm]
		DTVU	DSVU	DRVU		DCTVU/ DETUVU*	DCSVU/ DESVU*	DCRVU/ DERVU*		
100	100	0,6	0,5	0,5	110	0,8	0,7	0,6	LM...A	5
125	100	0,7	0,6	0,6	110	0,9	0,8	0,7	LM...A	5
160	100	0,9	0,8	0,7	110	1,0	1,0	0,8	LM...A	5
200	100	1,2	1,1	1,0	110	1,4	1,3	1,2	LM...A	5
250	100	1,8	1,5	1,4	160	2,0	1,7	1,6	LM...A	5
315	120	2,5	2,0	1,8	220	2,7	2,2	2,0	LM...A	5
400	150	3,6	2,7	2,7	260	3,8	2,9	2,9	NM...A	10
500	150	4,9	3,8	3,5	420	5,1	4,0	3,7	NM...A	10
630	180	7,8	5,8	5,2	510	8,0	6,1	5,4	SM...A	20



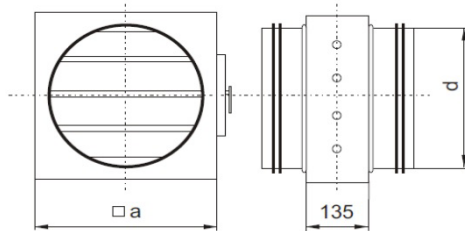
* Specified weights exclude actuator.
 1 Manufactured upon order.

Relationship between local resistance coefficient and opening degree for single-leaf dampers - hermetic (s) and non-hermetic (n).

Multi-leaf damper JSMCVU

DESCRIPTION:

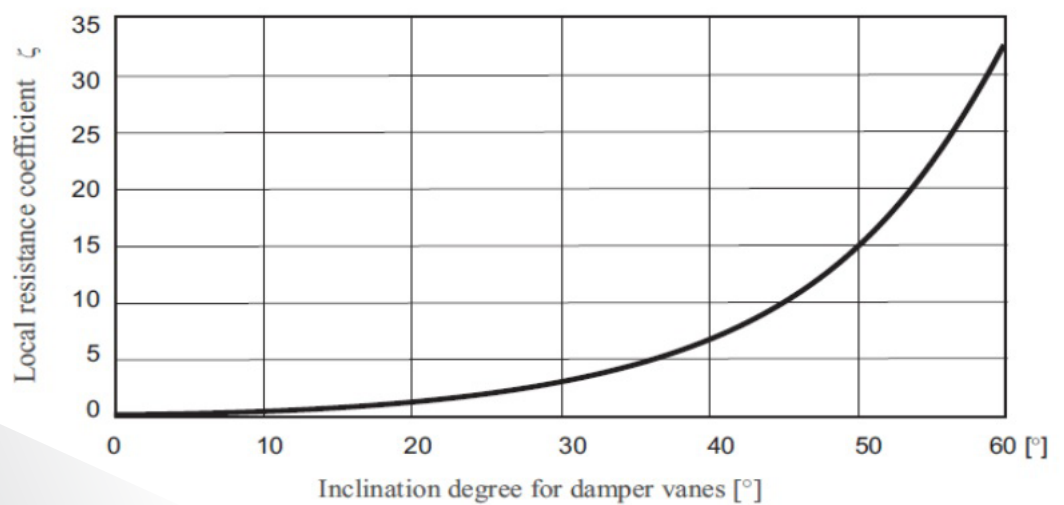
JSMCVU "round" multi-leaf damper is used to control the stream of air flowing through "spiro" or B1 conduit type. In the case of high air output reaching 3000 - 35000 m³/h, the JSMCVU damper adjusts the air flow through the round conduit much more precisely than the round multi-leaf damper. Moreover, it has a much lower flow resistance than the multi-leaf damper.



Example dimensions of JSMCVU dampers

Conduit size [mm]	d [mm]	a [mm]
500	497	550
630	627	680
800	797	850
1000	997	1050
1250	1247	1300

Relationship between local resistance coefficient and inclination degree of vanes in backward multi-leaf damper.



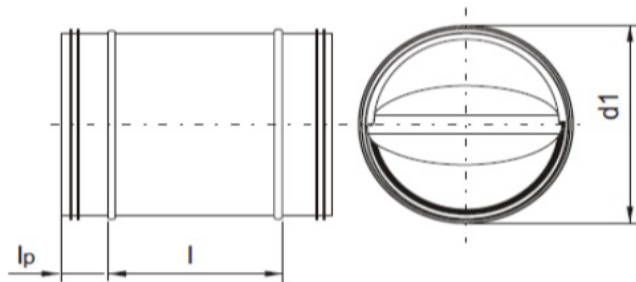
Non-return flap valve EPNFV

DESCRIPTION:

EPNFV non-return flap valve is designed for use in low- and medium-pressure ventilation systems. If there is no flow in the conduit, the flap with a shifted centre of gravity closes its cross-section under gravity. It is used in horizontal ducts.

EPNFV non-return flap valve is not designed for high-pressure dedusting systems.

Gasket in a standard version.



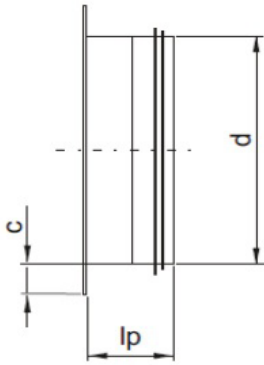
Example dimensions of EPNFV non-return flap valves.

d [mm]	l [mm]	Weight [kg]
80	130	0,4
100	130	0,5
125	130	0,6
160	130	0,8
200	130	1,0
250	250	1,9
315	250	2,4
400	250	3,0

Stub pipe ILFVU

DESCRIPTION:

Stub pipe allows the connection of the conduit with a round cross-section to a conduit with rectangular cross-section.



Available diameters of ILFVU stub pipes.

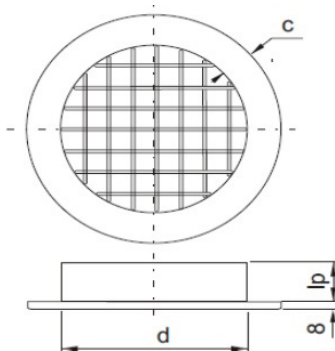
d [mm]	l [mm]	Weight [kg]
100	13	0,1
125	13	0,1
160	13	0,1
200	15	0,2
250	15	0,3
315	15	0,3
400	15	0,6
500	15	0,8
630	15	1,0
800	15	2,0
1000	15	2,4
1250	15	5,0

Stub pipe with screen and frame PNFRV

DESCRIPTION:

EPNFRV stub pipe with screen and frame, used to terminate and protect pressure or suction conduits with screen sized:

12,5 x 12,5 x 1,2 mm.



Available diameters of stub pipes with screen and frame EPNFRV.

d [mm]	c [mm]	lp [mm]
100	25	40
125	25	40
160	25	40
200	35	40
250	35	40
315	35	60
400	35	80
500	35	80
630	35	80
800	35	100
1000	35	100
1250	35	120

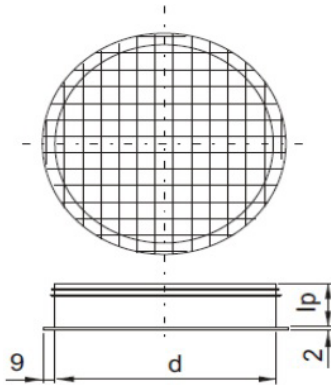
Stub pipes with screen EPNFV

DESCRIPTION:

Application is the same as that of a stub pipe with a screen and frame, but cheaper since there is no frame.

Screen sized 10 x 10 mm.

lp - connection stub length



Available diameters of ILFVU stub pipes.

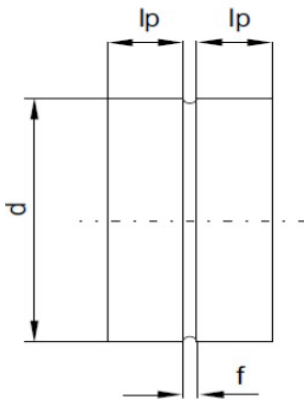
d [mm]	lp [mm]
100	40
125	40
160	40
200	40
250	40
315	60
400	80
500	80
630	80
800	100
1000	100
1250	120

External couplings MFV

DESCRIPTION:

MFV external couplings (muffs) are used to connect conduit system elements, when it is necessary to couple neighbouring fittings (e.g.: tee - bushing).

They are made without gaskets.



Example dimensions of MFV external couplings.

d [mm]	l [mm]	f [mm]	Weight [kg]
100	40	6	0,2
125	40	6	0,2
160	40	6	0,3
200	40	6	0,4
250	60	6	0,4
315	60	6	0,7
400	80	8	1,4
500	80	8	1,7
630	80	8	2,7
800	100	12	4,9
1000	100	12	7,3
1250	120	12	9,2

Internal couplings NPVU

DESCRIPTION:

NPVU internal couplings (nipples) are used to connect conduits. They are made either with or without a gasket.



Example dimensions of NPVU internal couplings.

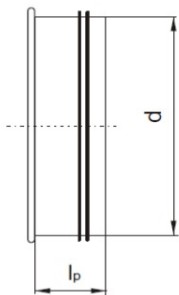
d [mm]	f [mm]	Weight [kg]
100	6	0,2
125	6	0,2
160	6	0,3
200	6	0,4
250	6	0,5
315	6	0,8
400	8	1,5
500	8	1,9
630	8	2,9
800	12	5,1
1000	12	7,7
1250	12	9,5

Pipe stoppers ESVU

DESCRIPTION:

Designed for mounting at the conduit end in order to provide a tight closing. It may work as a clean out for conduit cleaning. The length (depth) of pipe stoppers are the same as in the case of connection stubs. In a standard version made as a nipple, it may be also be provided in the form of a muff. On request, a grip may be mounted onto pipe stopper surface.

ESLVU-pipe stopper with assembly lug.



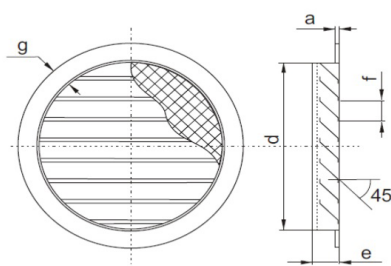
Diameters of pipe stoppers.

d [mm]	lp [mm]
100	40
125	40
160	40
200	40
250	40
315	60
400	80
500	80
630	80
800	100
1000	100
1250	120

Air intakes WIV

DESCRIPTION:

WIV air intakes (B type - round) are used to terminate conduits with a circular cross-section. They should be used with small air flow velocities. B type intakes are equipped with fixed shutters installed at an angle of 45 degrees, which protect the intake hole against precipitation. Behind the shutters is a protective screen with a perforated sheet sized 8 x 8 mm up to diameter 315, and 10x10mm for a higher diameter.



Diameters of wall intakes, round WIV.

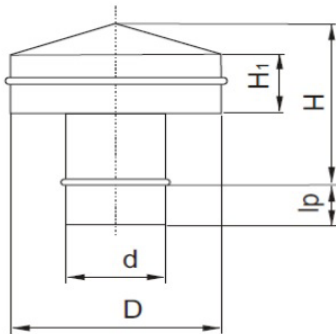
d [mm]	e [mm]	f [mm]	g [mm]	a [mm]	P ef. [m2]
100	40	15	20	5	0,005
125	40	20	25	5	0,008
160	40	25	25	5	0,013
200	40	25	25	5	0,020
250	60	30	30	10	0,032
315	60	30	30	10	0,055
400	60	60	30	10	0,063
500	60	60	30	10	0,104
630	60	60	30	10	0,169
800	60	60	40	10	0,274
1000	60	60	40	10	0,442
1250	60	60	40	10	0,701

Roof intakes HV

DESCRIPTION:

HV roof intakes are used to terminate ventilation ducts. They may be combined with circular cross-section conduits, or using an adapter - with rectangular cross-section conduits. These intakes may work as exhaust vents.

d coupling is made as a nipple.



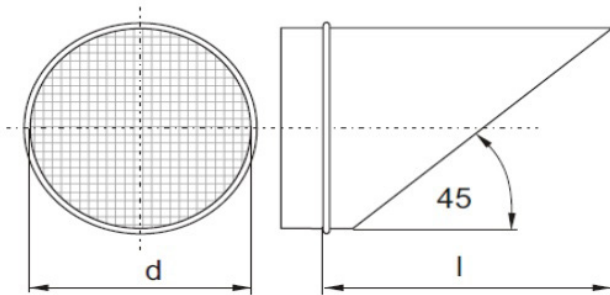
Dimensions of HV roof intakes.

d [mm]	D [mm]	H1 [mm]	H [mm]
100	180	60	135
125	224	60	140
160	290	60	148
200	360	100	198
250	405	100	230
315	570	100	245
400	720	150	338
500	900	200	410
630	1135	200	440
800	1440	200	505
1000	1820	220	575
1250	2280	220	610

Stub pipe KVV

DESCRIPTION:

KVV exhaust - intake stub pipe terminates a round conduit, and is designed for wall mounting. It is provided with a rain protection element. The screen is made of a perforated zinc coated sheet with a mesh sized 10 x 10 mm. Mounted on the wall, may work either as an exhaust vent or an intake.



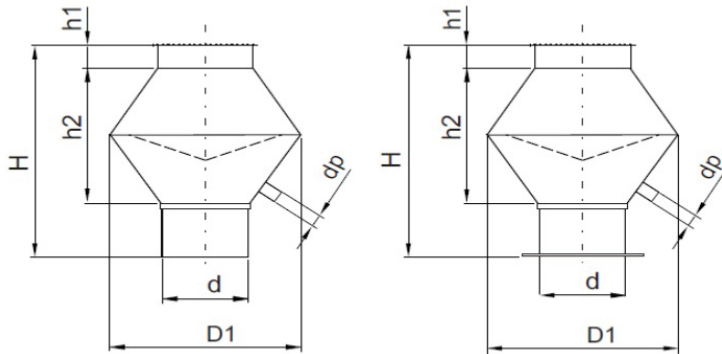
Dimensions of KVV exhaust stub pipes.

d [mm]	l [mm]
100	200
125	225
160	260
200	300
250	350
315	415
400	500
500	600
630	730
800	900
1000	1100
1250	1350

Roof exhaust HWVF

DESCRIPTION:

HWVF roof exhaust vents (E type) are used to terminate ventilation ducts. The exhaust vent design allows the intensification of the gravitational movement of air during fan inactivity. The exhaust vent is equipped with an insert for collecting rainwater and carrying it outside, which prevents water penetration into the system. In a standard version, exhaust vents are made with mounting flanges.



Dimensions of HWVF roof exhaust vents.

d [mm]	D1 [mm]	H [mm]	h1 [mm]	h2 [mm]	dp [cal]
100	200	290	40	150	1/2
125	250	320	40	180	1/2
160	320	355	40	215	3/4
200	400	460	40	270	3/4
250	500	530	40	340	3/4
315	630	625	50	425	3/4
355	710	730	50	480	1

Dimensions of HWVF roof exhaust vents.

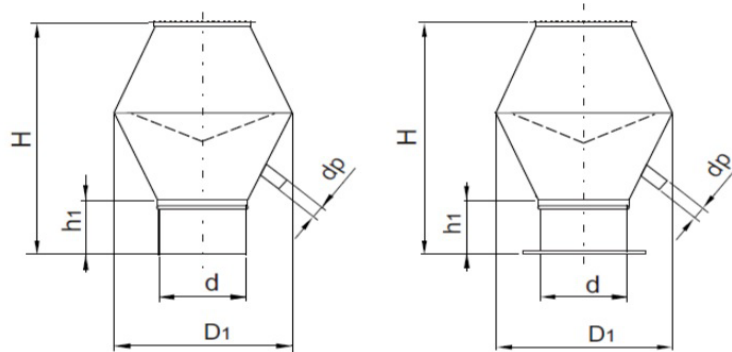
D [mm]	D1 [mm]	F [mm]	H [mm]	h1 [mm]	h2 [mm]	dp [cal]
400	800	25	790	50	540	1
500	1000	25	925	50	675	1
630	1260	30	1160	60	850	1
800	1600	30	1440	60	1080	1
1000	2000	35	1710	60	1350	1
1250	2500	35	2010	60	1600	1

Roof exhaust HWVSF

DESCRIPTION:

HWVSF roof exhaust vents (E type) are used to terminate ventilation ducts.

The exhaust vent design allows the intensification of the gravitational movement of air during fan inactivity. The exhaust vent is equipped with an insert for collecting rainwater and carrying it outside, which prevents water penetration into the system. In a standard version, exhaust vents are made with muff mounting to d 400 mm, flange connection from d 400 mm.

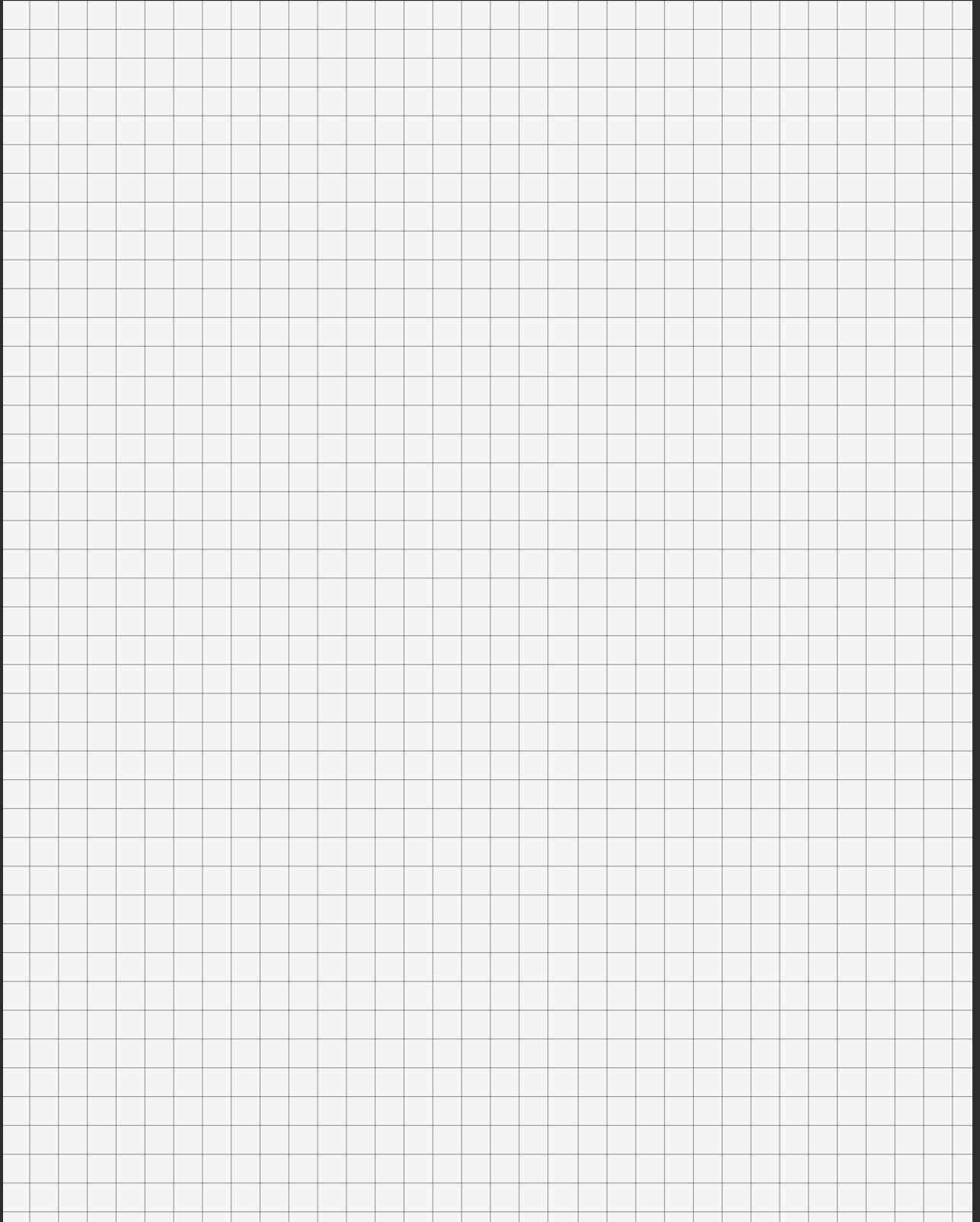


Dimensions of HWVSF roof exhaust vents.

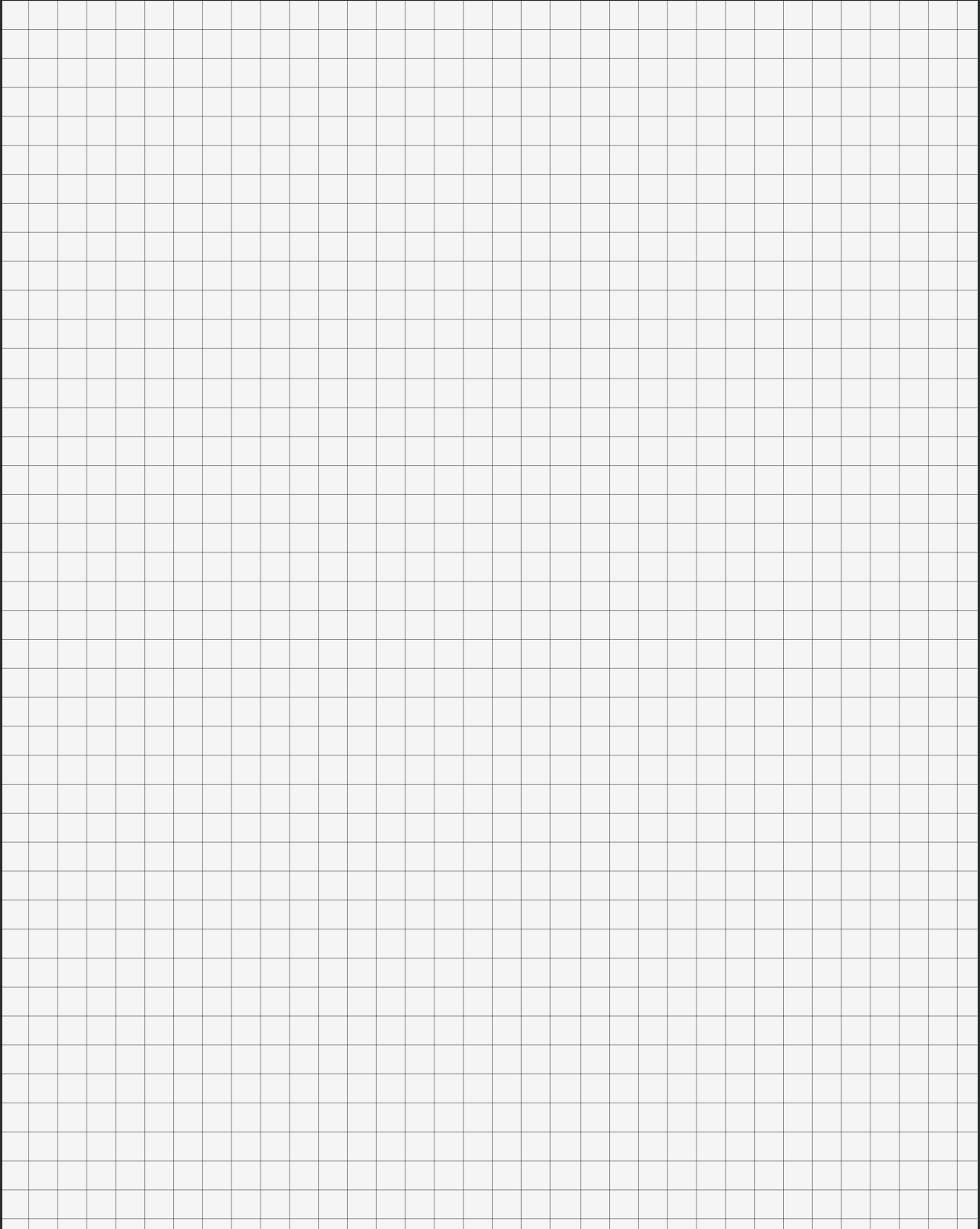
d [mm]	D1 [mm]	H [mm]	h1 [mm]	dp [cal]
100	185	220	40	1/2
125	230	240	60	1/2
160	285	340	60	3/4
200	350	420	60	3/4
250	435	505	60	3/4
315	555	620	60	3/4

d [mm]	D1 [mm]	H [mm]	h1 [mm]	dp [cal]
400	685	825	70	1
500	865	975	70	1
630	1080	1220	70	1
800	1365	1530	90	1
1000	1605	1985	90	1
1250	2025	2455	90	1

NOTEBOOK



NOTEBOOK



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