

MIETZSCH

GmbH Lufttechnik Dresden

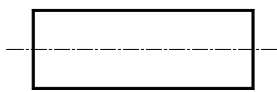
USER INFORMATION

DUCT COMPONENTS

round cross-sections



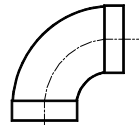
Pipes and Fittings (Page number in brackets)



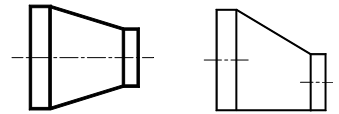
Pipes (02-04)



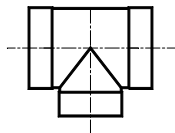
Tubes (05)



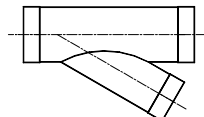
Bends (06-10)



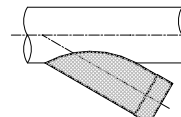
Reductions (11-14)



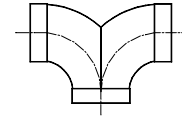
T-Sections (15-16)



Branched Pipes (17-20)



Pipe Supports (21-28)



Y-Sections (29-30)

Fasteners and Connectors



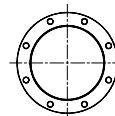
Compensator (31-33)



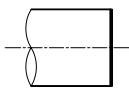
Socket (34-35)



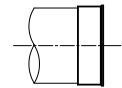
Double Socket (36)



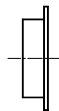
Flange (37-41)



End Base (42)

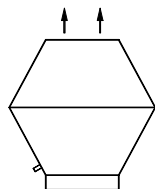


Socket Cover (43)

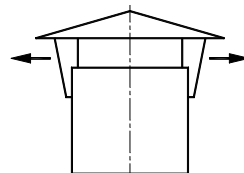


Socket Flange (44-45)

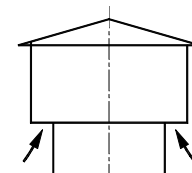
Vent and Exhaust Hoods



Deflector Hood (46)



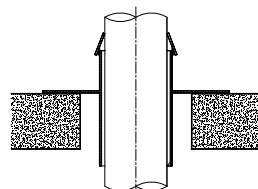
Exhaust Air Hood (47)



Outside Air Hood (48)

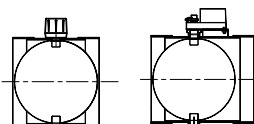


Protective Pipe (49-50)

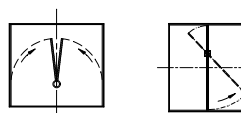


Roof Outlet (51-52)

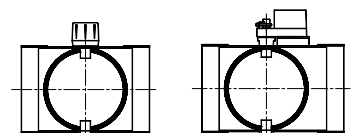
Flaps



Damper Flap (53-54)
manually adjustable/ Actuator

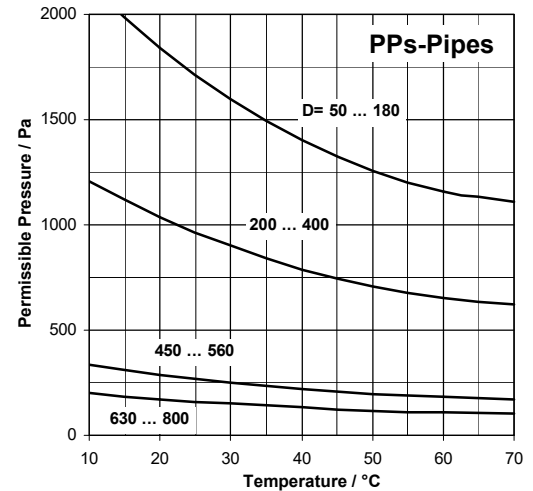
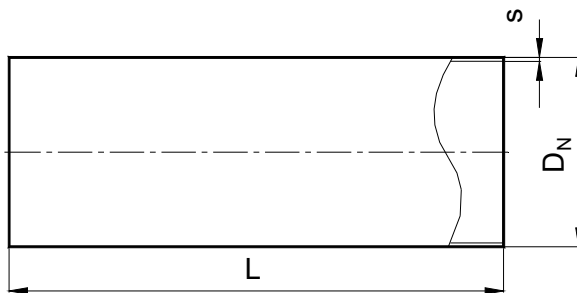


Backdraft Damper (55-56)
vertical / horizontal



Butterfly Flap (57-58)
manually adjustable/ Actuator

prices on application



Conditions of Use: In addition to chemical resistance, the permissible pressure and temperature limits should be taken into account. In practice, only the burden of negative pressure is critical (see above diagram for PPs tubes permissible pressure). Additional bracing is required at higher loads. For more information please refer to our development guidelines.

Connections: smooth on both sides

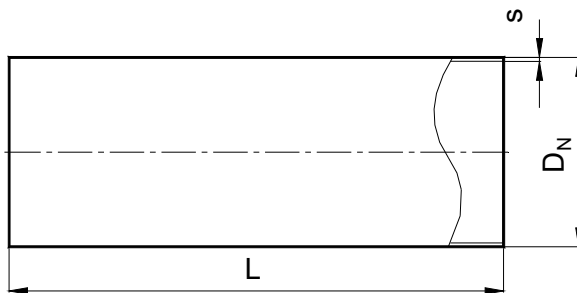
Delivery Lengths: for D_N up to 400 mm. maximum delivery length 5 m
for D_N greater than 400 mm. maximum delivery length 2 m (other lengths upon request)

Special Designs: other diameters and other materials upon request

PPs			PE			PP		
$D_N \times s$ mm x mm	Mass kg/m	Price EUR/m	$D_N \times s$ mm x mm	Mass kg/m	Price EUR/m	DN x s mm x mm	Mass kg/m	Price EUR/m
50x3.0	0.42		50x3.0	0.46		50x2.9	0.42	
63x3.0	0.54		63x3.8	0.73		63x3.6	0.66	
75 x 3.0	0.64		75 x 4.5	1.03		75 x 4.3	0.94	
90 x 3.0	0.78		90 x 5.4	1.47		90 x 5.1	1.33	
110 x 3.0	0.96		110 x 3.4	1.19		110 x 2.7	0.90	
125 x 3.0	1.1		125 x 3.9	1.53		125 x 3.1	1.18	
140 x 3.0	1.2		140 x 4.3	1.9		140 x 3.5	1.48	
160 x 3.0	1.4		160 x 4.9	2.5		160 x 4.0	1.91	
180 x 3.0	1.6		180 x 5.5	3.1		180 x 4.4	2.38	
200 x 3.0	1.8		200 x 4.9	3.1		200 x 4.9	2.92	
225 x 3.5	2.3		225 x 6.9	4.8		225 x 5.5	3.70	
250 x 3.5	2.6		250 x 6.2	4.9		250 x 6.2	4.63	
280 x 4.0	3.3		280 x 8.6	7.5		280 x 6.9	5.73	
315 x 5.0	4.6		315 x 7.7	7.6		315 x 7.7	7.19	
355 x 5.0	5.2		355 x 10.9	12.0		355 x 8.7	9.63	
400 x 6.0	7.1		400 x 9.8	12.2		400 x 9.8	11.60	
450 x 4.0	5.3		450 x 4.0	7.2		450 x 4.0	7.17	
500 x 4.0	5.9		500 x 4.0	8.9		500 x 4.0	8.85	
560 x 5.0	8.3		560 x 5.0	9.9		560 x 5.0	9.92	
630 x 5.0	9.3		630 x 5.0	11.2		630 x 5.0	11.17	
710 x 5.0	10.5		710 x 5.0	12.6		710 x 5.0	12.60	
800 x 5.0	11.9		800 x 5.0	14.2		800 x 5.0	14.20	
900 x 6.0	16.0		900 x 6.0	20.0		900 x 6.0	19.96	
1000 x 6.0	17.8		1000 x 6.0	22.2		1000 x 6.0	22.19	
1120 X 6.0	19.9		1120 X 6.0	29.8		1120 X 6.0	29.82	
1250 x 6.0	22.3		1250 x 6.0	33.3		1250 x 6.0	33.30	

Designation Example:

Pipe D_N 250 x 1000 PPs



Conditions of Use: In addition to chemical resistance, the permissible pressure and temperature limits should be taken into account. In practice, only the burden of negative pressure is critical (see above diagram for PPs tubes permissible pressure). Additional bracing is required at higher loads. For more information please refer to our development guidelines.

Connections: smooth on both sides

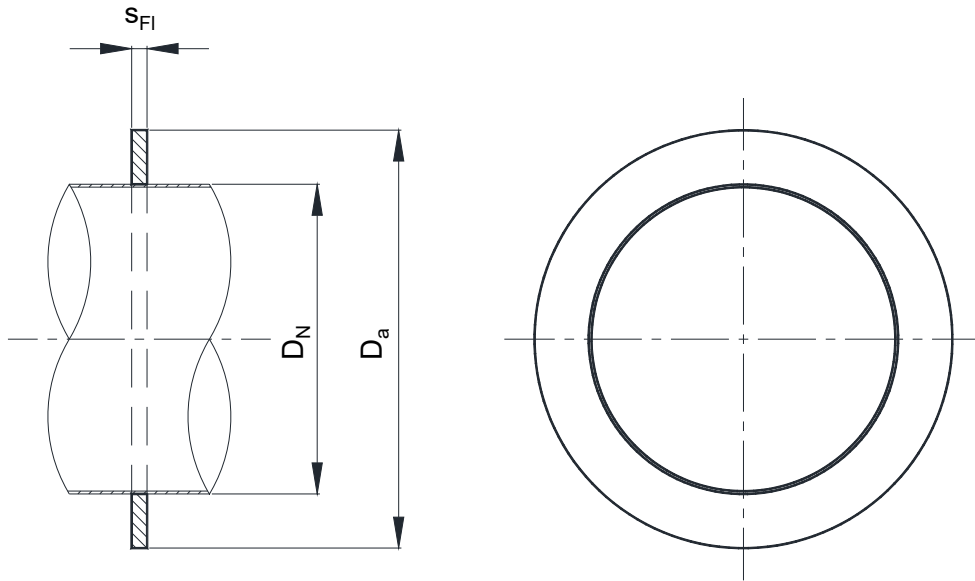
Delivery Lengths: for D_N up to 400 mm, maximum delivery length 5 m
for D_N greater than 400 mm, maximum delivery length 2 m (other lengths upon request)

Special Designs: other diameters and other materials upon request

PVC			PVDF			PPsX		
D _N x s mm x mm	Weight kg/m	Price EUR/m	D _N x s mm x mm	Weight kg/m	Price EUR/m	D _N x s mm x mm	Weight kg/m	Price EUR/m
50x1.5	0.39		50x3.0	0.85		50x4.6	0.77	
63x1.9	0.52		63x3.0	1.09		63x5.8	1.23	
75 x 1.9	0.59		75 x 3.6	1.55		75 x 3.0	0.86	
90 x 1.8	0.71		90 x 3.0	1.58		90 x 3.0	1.05	
110 x 1.8	0.87		110 x 3.0	1.94		110 x 3.0	1.29	
125 x 1.8	0.99		125 x 3.0	2.21		125 x 3.0	1.47	
140 x 1.8	1.1		140 x 4.3	3.5		140 x		
160 x 1.8	1.3		160 x 3.0	2.9		160 x 3.0	1.9	
180 x 1.8	1.4		180 x			180 x		
200 x 1.8	1.6		200 x 3.0	3.6		200 x 3.0	2.4	
225 x 1.8	1.8		225 x			225 x		
250 x 2.0	2.2		250 x 3.0	4.5		250 x 3.5	3.5	
280 x 2.3	2.8		280 x 3.5	5.9		280 x		
315 x 2.5	3.5		315 x 4.0	7.5		315 x 5.0	6.1	
355 x 2.8	4.6		355 x 5.0	10.5		355 x		
400 x 3.2	5.7		400 x 5.0	11.8		400 x 6.0	9.3	
450 x 3.6	7.2		450 x 3.0	10.0		450 x 4.0	6.6	
500 x 4.0	8.9		500 x 3.0	11.1		500 x 4.0	7.4	
560 x 4.0	9.9		560 x 3.0	12.4		560 x 5.0	10.3	
630 x 4.0	11.2		630 x 4.0	14.0		630 x 5.0	11.6	
710 x 4.0	12.6		710 x 4.0	15.8		710 x 5.0	13.1	
800 x 4.0	14.2		800 x 4.0	17.8		800 x 5.0	14.7	
900 x 5.0	20.0		900 x 4.0	25.0		900 x 6.0	19.9	
1000 x 5.0	22.2		1000 x 5.0	27.8		1000 x 6.0	22.1	
1120 X 6.0	29.8		1120 X 5.0	37.4		1120 X 6.0	24.8	
1250 x 6.0	33.3		1250 x 6.0	41.7		1250 x 6.0	27.7	

Designation Example:

Pipe D_N 250 x 1000 PVC



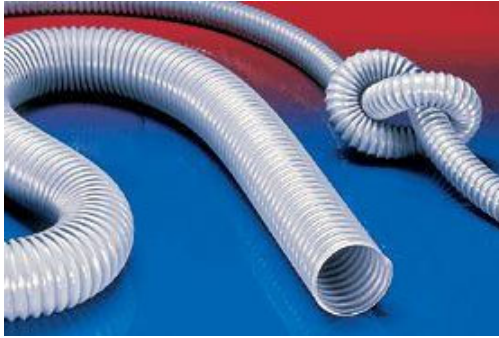
Design: The reinforcing flange dimensions are manufactured according to MIETZSCH - factory standard MWS 53110. Other flange dimensions, e.g. according to the regulations for sheet metal flanges (DIN EN 12220), are possible on request.

Mounting: The spacing of the reinforcing flanges must be selected according to the pressure and temperature conditions. From size 450 upwards, the reinforcing flanges can also be installed after the pipe has been installed.

Dimensions			PPs	PE	PP	PVC	PVDF	PPsX
D_N mm	D_a mm	S_{Fl}	EUR	EUR	EUR	EUR	EUR	EUR
110	170	10						
125	185	10						
140	200	10						
160	230	10						
180	250	10						
200	270	10						
225	295	10						
250	320	10						
280	360	10						
315	395	10						
355	435	10						
400	480	10						
450	530	10						
500	580	10						
560	640	10						
630	710	10						
710	790	10						
800	880	10						
900	980	10						
1000	1080	10						
1120	1200	10						
1250	1330	10						

Designation Example : reinforcing flange welded D_N 250 PVC

prices on application



Highly flexible suction hoses for ventilation and air conditioning technology. Spring steel spiral is embedded into the wall. and provides excellent protection against corrosion.

The tubes are very stable and kink-proof. even with small curvature radius.

All types are gas and liquid tight with good chemical resistance. However. it must be noted that even these plastics can be attacked by certain chemicals.

For the selection of the appropriate hose. the intended purpose and type of fluid handled should always be specified on request or order.

Permissible Operating Pressure: 4500 Pa minimum value for all types and diameters

Permissible Negative Pressure: 500 Pa minimum value for all types and diameters or by assessment


$$\text{allowable negative pressure/ Pa} = k_1 * D_N^{n1} ; \text{with } D_N [\text{m}]$$

Pressure Loss: tight bends. strong compression and lateral offset should be avoided.

The **Loss Coefficients** ζ can be estimated as follows:

$$\text{Straight hose per meter: } \zeta / \text{m} = k_2 * D_N^{n2} ; \text{with } D_N [\text{m}]$$

	PROTAPE 310	AIRDUC 341	AIRDUC 351	PROTAPE 322
k_1	158	115	618	165
$n1$	1.54	-1.73	-1.34	-1.69
k_2	326	78	78	326
$n2$	-1.383	-1.18	-1.18	-1.383

Type	FLEX-PVC low weight PROTAPE. 310	FLEX-PVC heavy w. AIRDUC. 341	FLEX-PUR-HT AIRDUC. 351	FLEX-PE-EC PROTAPE. 322	FLEX-clamp
Description	universal suction and blast hose	universal suction and blast hose	heat-resistant and abrasion resistant suction hose for high demands	suction hose for use in potentially explosive atmospheres	spiral clamp for corrugated hoses
Material	soft PVC film	soft PVC film	high temperature-Polyurethane	elektrically-conductive Polyethylene	Stainless Steel A2
Application	gaseous media. fine dusts and fibers	gaseous media. fine dusts and fibers	for gaseous media. for abrasive materials such as fibers und dust	for explosive gases	suitable for all types of hoses
Properties	good resistance to alkalis and acids good UV and ozone resistance RoHS-compliant	good resistance to oil. gasoline and many chemicals good UV and ozone resistance RoHS-compliant	good resistance to oil. gasoline and many chemicals good UV and ozone resistance RoHS-compliant	good resistance to oil. gasoline and many chemicals surface resistance < 1000 Ohm. meets requirements of the ATEX Directive 2014/34/EU for conveyance of gases in zone 0. 1 und 2 RoHS-compliant	
Temperature	-20 °C to +70 °C (briefly to +80 °C)	-20 °C to +70 °C (briefly to +80 °C)	-40 °C to +125 °C (briefly to +150 °C)	-35 °C to +80 °C	
Color	gray	transparent/silver	black	black	
DN /mm	EUR/m	EUR/m	EUR/m	EUR/m	EUR/m
40					
50					
75					
90					
110					
125					
140					
160					
180					
200					
225					
250					
280 *)					
315					
350					
400					

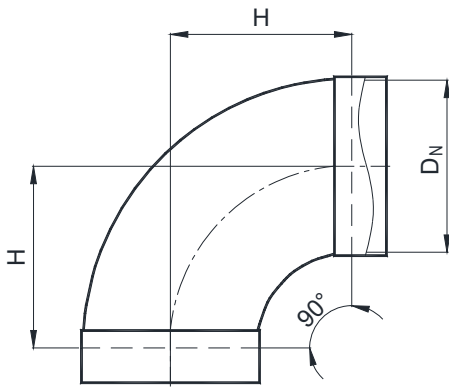
*) wall thickness 0.9 mm

Available Lengths: 10m (special lengths upon request)

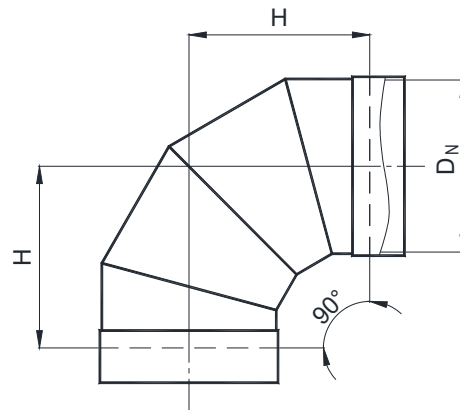
Designation Example:

Flex-Tube FLEX-PVC D_N 250 x 5000 lg.

prices on application



seamless ($D_N \leq 400$)



welded ($D_N > 400$)

Conditions of Use:

In addition to chemical resistance, the permissible pressure and temperature limits should be taken into account. In practice, only the burden of negative pressure is critical. For more information please refer to our development guidelines.

Connections:

welded on both sides

Average Curvature Radius: R/D_N ca. 1.0

Loss Coefficient: $\zeta = 0.21$

Special Design:

other materials upon request

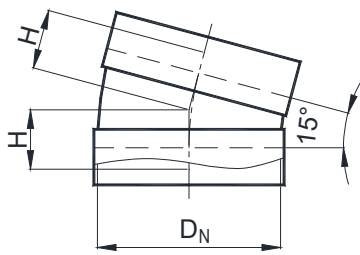
Dimensions		PPs	PE	PP	PVC	PVDF	PPsX
D_N mm	H mm	EUR	EUR	EUR	EUR	EUR	EUR
50	56						
63	70						
75	85						
90	100						
110	120						
125	135						
140	150						
160	170						
180	190						
200	210						
225	235						
250	260						
280	290						
315	325						
355	365						
400	410						
450	450						
500	500						
560	560						
630	630						
710	710						
800	800						
900	900						
1000	1000						
1120	1120						
1250	1250						

The dimensions are subject to technical changes and are not bound before written confirmation.

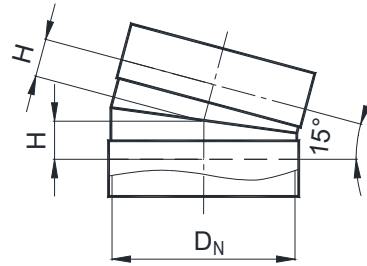
Designation Example:

Bend D_N 250 x 90° PVC

prices on application



seamless ($D_N \leq 400$)



welded ($D_N > 400$)

Conditions of Use: In addition to chemical resistance, the permissible pressure and temperature limits should be taken into account. In practice, only the burden of negative pressure is critical. For more information please refer to our development guidelines.

Connections: welded on both sides

Average Curvature Radius: R/D_N ca. 1.0

Loss Coefficient: ζ (15°) = 0.03

Special Design: other materials upon request

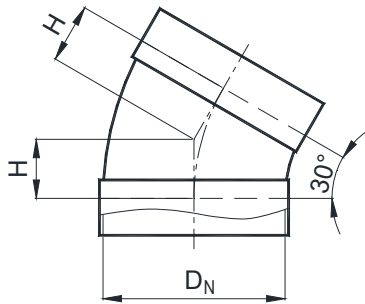
Dimensions		PPs	PE	PP	PVC	PVDF	PPsX
D_N mm	H mm	EUR	EUR	EUR	EUR	EUR	EUR
50	12						
63	13						
75	15						
90	17						
110	19						
125	21						
140	23						
160	26						
180	29						
200	31						
225	35						
250	38						
280	42						
315	46						
355	52						
400	58						
450	100						
500	103						
560	117						
630	131						
710	147						
800	163						
900	179						
1000	196						
1120	214						
1250	232						

The dimensions are subject to technical changes and are not bound before written confirmation.

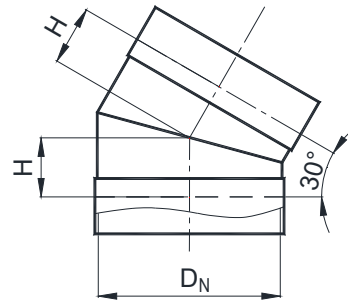
Designation Example:

Bend D_N 250 x 15° PVC

prices on application



seamless ($D_N \leq 400$)



welded ($D_N > 400$)

Conditions of Use: In addition to chemical resistance, the permissible pressure and temperature limits should be taken into account. In practice, only the burden of negative pressure is critical. For more information please refer to our development guidelines.

Connections: welded on both sides

Average Curvature Radius: R/D_N ca. 1.0

Loss Coefficient: ζ (30°) = 0.065

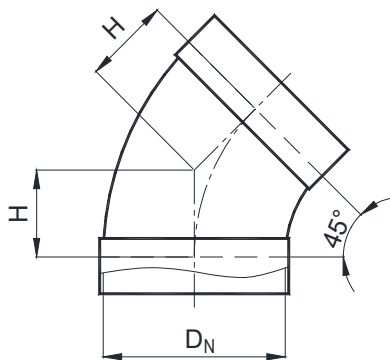
Special Design: other materials upon request

Dimensions		PPs	PE	PP	PVC	PVDF	PPsX
D_N mm	H mm	EUR	EUR	EUR	EUR	EUR	EUR
50	20						
63	25						
75	30						
90	34						
110	40						
125	44						
140	46						
160	52						
180	58						
200	64						
225	70						
250	78						
280	85						
315	95						
355	106						
400	118						
450	121						
500	134						
560	150						
630	169						
710	190						
800	214						
900	240						
1000	268						
1120	300						
1250	335						

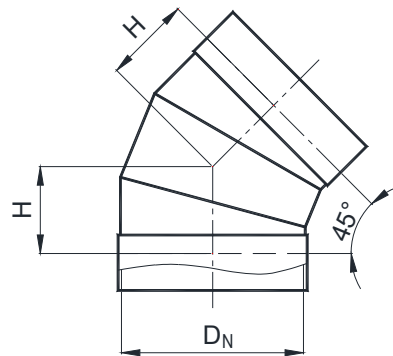
The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Bend D_N 250 x 30° PVC



seamless ($D_N \leq 400$)



welded ($D_N > 400$)

Conditions of Use: In addition to chemical resistance, the permissible pressure and temperature limits should be taken into account. In practice, only the burden of negative pressure is critical. For more information please refer to our development guidelines.

Connections: welded on both sides

Average Curvature Radius: R/D_N ca. 1.0

Loss Coefficient: ζ (45°) = 0.14

Special Design: other materials upon request

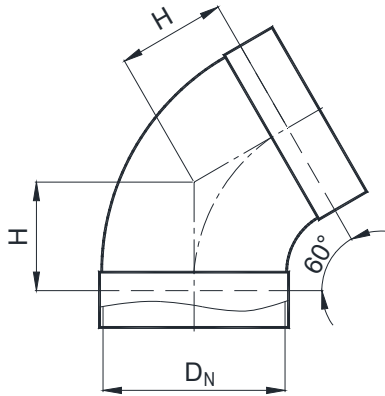
Dimensions		PPs	PE	PP	PVC	PVDF	PPsX
D_N mm	H mm	EUR	EUR	EUR	EUR	EUR	EUR
50	28						
63	35						
75	42						
90	48						
110	58						
125	62						
140	69						
160	76						
180	86						
200	94						
225	104						
250	114						
280	126						
315	142						
355	158						
400	176						
450	217						
500	227						
560	256						
630	288						
710	324						
800	362						
900	403						
1000	445						
1120	502						
1250	563						

The dimensions are subject to technical changes and are not bound before written confirmation.

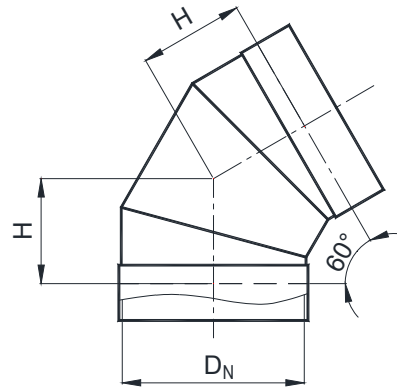
Designation Example:

Bend D_N 250 x 45° PVC

prices on application



seamless ($D_N \leq 400$)



welded ($D_N > 400$)

Conditions of Use: In addition to chemical resistance, the permissible pressure and temperature limits should be taken into account. In practice, only the burden of negative pressure is critical. For more information please refer to our development guidelines.

Connections: welded on both sides

Average Curvature Radius: R/D_N ca. 1.0

Loss Coefficient: ζ (60°) = 0.17

Special Design: other materials upon request

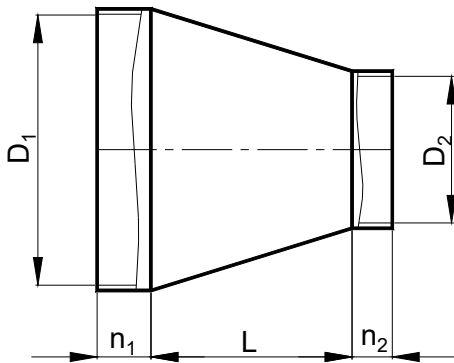
Dimensions		PPs	PE	PP	PVC	PVDF	PPsX
D_N mm	H mm	EUR	EUR	EUR	EUR	EUR	EUR
50	36						
63	45						
75	54						
90	62						
110	74						
125	82						
140	92						
160	102						
180	114						
200	126						
225	140						
250	154						
280	172						
315	192						
355	214						
400	240						
450	260						
500	289						
560	323						
630	364						
710	410						
800	462						
900	520						
1000	577						
1120	648						
1250	722						

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Bend D_N 250 x 60° PVC

prices on application



Conditions of Use:

Refer back to Pipes and Bends.

For more information please refer to our development guidelines.

Version: welded or injected (in bold)

Connections: welded on both sides

Loss Coefficient: ζ (Diffuser) max. 0.6 based on D_1
 ζ (Constrictor) max. 0.3 based on D_2

Dimensions					PPs	PE	PP	PVC	PVDF	PPsX
D ₁ mm	D ₂ mm	L mm	n ₁ mm	n ₂ mm	EUR	EUR	EUR	EUR	EUR	EUR
90	75	40	40	40						
110	75	80	40	40						
110	90	60	40	40						
125	75	150	50	50						
125	90	150	50	50						
125	110	40	40	40						
140	75	150	50	50						
140	90	150	50	50						
140	110	80	40	40						
140	125	40	40	40						
160	90	15	50	50						
160	110	140	40	40						
160	125	100	40	40						
160	140	60	40	40						
180	90	150	50	50						
180	110	50	40	40						
180	125	40	40	40						
180	140	30	40	40						
180	160	60	40	40						
200	110	65	40	40						
200	125	55	40	40						
200	140	45	40	40						
200	160	120	40	40						
200	180	75	40	40						
225	125	65	40	40						
225	140	60	40	40						
225	160	100	40	40						
225	180	85	40	40						
225	200	80	40	40						
250	125	90	40	40						
250	140	80	40	40						
250	160	120	40	40						
250	180	100	40	40						
250	200	140	40	40						
250	225	80	40	40						
280	140	150	50	50						
280	160	85	50	40						
280	180	65	50	40						
280	200	105	50	40						
280	225	40	50	40						
280	250	35	50	40						
315	160	115	50	40						
315	180	100	50	40						
315	200	160	50	40						
315	225	65	50	40						
315	250	100	50	40						
315	280	100	50	50						

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Reduction 250 / 160 PVC

prices on application

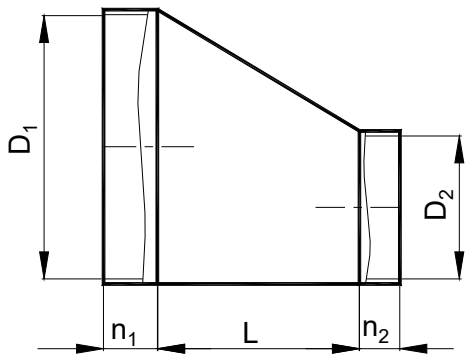


Dimensions					PPs	PE	PP	PVC	PVDF	PPsX
D ₁	D ₂	L	n1	n2						
mm	mm	mm	mm	mm	EUR	EUR	EUR	EUR	EUR	EUR
355	180	150	50	50						
355	200	115	50	40						
355	225	95	50	40						
355	250	140	50	40						
355	280	65	50	50						
355	315	20	50	50						
400	200	200	50	50						
400	225	125	50	40						
400	250	105	50	40						
400	280	90	50	50						
400	315	120	50	50						
400	355	135	50	50						
450	225	200	80	50						
450	250	145	50	40						
450	280	120	50	50						
450	315	95	50	50						
450	355	75	50	50						
450	400	200	50	50						
500	250	200	80	50						
500	280	160	50	50						
500	315	135	50	50						
500	355	110	50	50						
500	400	200	80	50						
500	450	200	80	80						
560	280	300	80	50						
560	315	300	80	50						
560	355	300	80	50						
560	400	300	80	50						
560	450	300	80	80						
560	500	300	80	80						
630	315	300	80	50						
630	355	300	80	50						
630	400	300	80	50						
630	450	300	80	80						
630	500	300	80	80						
630	560	300	80	80						
710	355	300	80	50						
710	400	300	80	50						
710	450	300	80	80						
710	500	300	80	80						
710	560	300	80	80						
710	630	300	80	80						
800	400	300	80	50						
800	450	300	80	80						
800	500	300	80	80						
800	560	300	80	80						
800	630	300	80	80						
800	710	300	80	80						
900	450	400	80	80						
900	500	400	80	80						
900	560	400	80	80						
900	630	400	80	80						
900	710	400	80	80						
900	800	400	80	80						
1000	500	400	80	80						
1000	560	400	80	80						
1000	630	400	80	80						
1000	710	400	80	80						
1000	800	400	80	80						
1000	900	400	80	80						
1120	560	400	80	80						
1120	630	400	80	80						
1120	710	400	80	80						
1120	800	400	80	80						
1120	900	400	80	80						
1120	1000	400	80	80						
1250	630	400	80	80						
1250	710	400	80	80						
1250	800	400	80	80						
1250	900	400	80	80						
1250	1000	400	80	80						
1250	1120	400	80	80						

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Reduction 630 / 315 PPs



Conditions of Use:

Refer back to Pipes and Bends.

For more information please refer to our development guidelines.

Version: welded

Connections: welded on both sides

Loss Coefficient: ζ (Diffuser) max. 0.6 based on D_1
 ζ (Constrictor) max. 0.3 based on D_2

Dimensions					PPs	PE	PP	PVC	PVDF	PPsX
D ₁ mm	D ₂ mm	L mm	n ₁ mm	n ₂ mm	EUR	EUR	EUR	EUR	EUR	EUR
90	75	108	50	50						
110	75	108	50	50						
110	90	90	50	50						
125	75	116	50	50						
125	90	108	50	50						
125	110	108	50	50						
140	75	124	50	50						
140	90	121	50	50						
140	110	135	50	50						
140	125	119	50	50						
160	90	132	50	50						
160	110	121	50	50						
160	125	113	50	50						
160	140	97	50	50						
180	90	138	50	50						
180	110	132	50	50						
180	125	131	50	50						
180	140	127	50	50						
180	160	97	50	50						
200	110	138	50	50						
200	125	141	50	50						
200	140	142	50	50						
200	160	127	50	50						
200	180	97	50	50						
225	125	152	50	50						
225	140	158	50	50						
225	160	153	50	50						
225	180	141	50	50						
225	200	116	50	50						
250	125	157	50	50						
250	140	167	50	50						
250	160	167	50	50						
250	180	164	50	50						
250	200	154	50	50						
250	225	116	50	50						
280	140	177	50	50						
280	160	184	50	50						
280	180	188	50	50						
280	200	189	50	50						
280	225	174	50	50						
280	250	142	50	50						
315	160	164	50	50						
315	180	171	50	50						
315	200	177	50	50						
315	225	170	50	50						
315	250	157	50	50						
315	280	161	50	50						

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Reduction-asy 250 / 160 PPs

prices on application



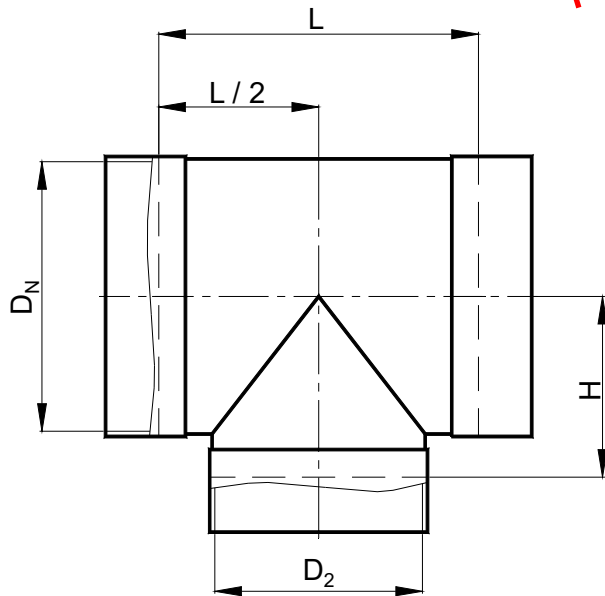
Dimensions					PPs	PE	PP	PVC	PVDF	PPsX
D ₁	D ₂	L	n1	n2						
mm	mm	mm	mm	mm	EUR	EUR	EUR	EUR	EUR	EUR
355	180	184	50	50						
355	200	195	50	50						
355	225	198	50	50						
355	250	196	50	50						
355	280	179	50	50						
355	315	180	50	50						
400	200	209	50	50						
400	225	219	50	50						
400	250	227	50	50						
400	280	223	50	50						
400	315	200	50	50						
400	355	198	50	50						
450	225	197	80	50						
450	250	209	50	50						
450	280	213	50	50						
450	315	205	50	50						
450	355	222	50	50						
450	400	217	50	50						
500	250	218	80	50						
500	280	229	80	50						
500	315	231	80	50						
500	355	220	80	50						
500	400	232	80	50						
500	450	217	80	80						
560	280	245	80	50						
560	315	257	80	50						
560	355	258	80	50						
560	400	244	80	50						
560	450	258	80	80						
560	500	262	80	80						
630	315	275	80	50						
630	355	287	80	50						
630	400	288	80	50						
630	450	273	80	80						
630	500	301	80	80						
630	560	299	80	80						
710	355	310	80	50						
710	400	324	80	50						
710	450	326	80	80						
710	500	318	80	80						
710	560	282	80	80						
710	630	254	80	80						
800	400	348	80	50						
800	450	364	80	80						
800	500	373	80	80						
800	560	361	80	80						
800	630	317	80	80						
800	710	281	80	80						
900	450	390	80	80						
900	500	414	80	80						
900	560	421	80	80						
900	630	404	80	80						
900	710	351	80	80						
900	800	309	80	80						
1000	500	432	80	80						
1000	560	454	80	80						
1000	630	457	80	80						
1000	710	433	80	80						
1000	800	369	80	80						
1000	900	309	80	80						
1120	560	482	80	80						
1120	630	424	80	80						
1120	710	424	80	80						
1120	800	398	80	80						
1120	900	403	80	80						
1120	1000	364	80	80						
1250	630	533	80	80						
1250	710	465	80	80						
1250	800	464	80	80						
1250	900	433	80	80						
1250	1000	455	80	80						
1250	1120	391	80	80						

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Reduction-asym 800 / 400 PPs

prices on application



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

Version: welded or injected (in bold)
(outgoing pipe must not be greater than be continuous tube: $D2 \leq DN$).

Connections: welded on all sides

Special Design: other materials and dimensions upon request

Dimensions				PPs	PE	PP	PVC	PVDF	PPsX
D ₁ mm	D ₂ mm	L mm	H mm	EUR	EUR	EUR	EUR	EUR	EUR
50	50	75	37						
63	63	75	38						
75	50	130	78						
75	75	105	53						
90	75	155	85						
90	90	120	60						
110	75	155	95						
110	90	170	95						
110	110	140	70						
125	75	155	103						
125	90	170	103						
125	110	190	103						
125	125	155	78						
140	75	155	110						
140	90	170	110						
140	110	190	110						
140	140	170	85						
160	90	170	120						
160	110	190	120						
160	125	205	120						
160	160	190	95						
180	90	170	130						
180	110	190	130						
180	140	220	130						
180	180	210	105						
200	90	170	140						
200	125	205	140						
200	160	240	140						
200	200	230	115						
225	110	190	153						
225	140	220	153						
225	180	260	153						
225	225	270	128						

The dimensions are subject to technical changes and are not bound before written confirmation.
The dimensions provided refer to material PPs. dimensions other materials may differ.

Designation Example:

T - Pipe D_N 250 / 160 PVC

prices on application



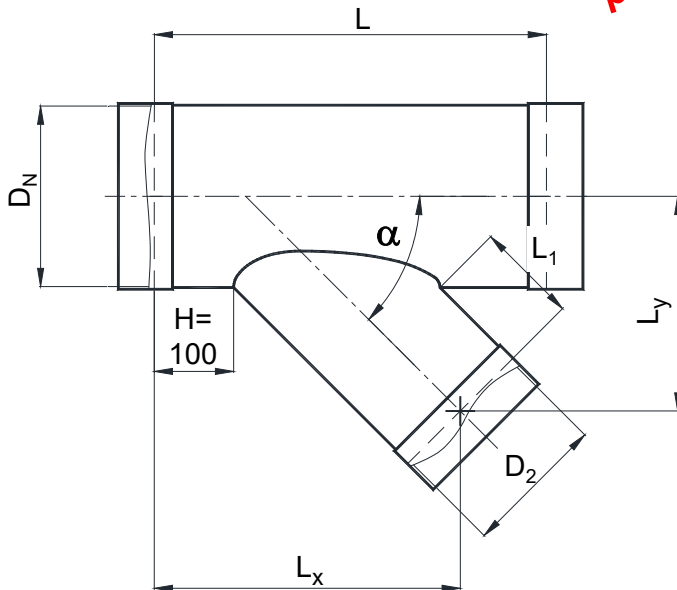
Dimensions				PPs	PE	PP	PVC	PVDF	PPsX
D ₁	D ₂	L	H						
mm	mm	mm	mm	EUR	EUR	EUR	EUR	EUR	EUR
250	125	205	165						
250	160	240	165						
250	200	280	165						
250	250	280	137						
280	140	220	180						
280	180	260	180						
280	225	305	180						
280	280	320	160						
315	160	260	208						
315	200	300	208						
315	250	350	208						
315	315	345	166						
355	180	280	228						
355	225	325	228						
355	280	380	228						
355	355	405	198						
400	200	300	250						
400	250	350	250						
400	315	415	250						
400	400	500	250						
450	225	345	285						
450	280	400	285						
450	355	475	285						
450	450	570	285						
500	250	370	310						
500	315	435	310						
500	400	520	310						
500	450	620	310						
560	280	420	350						
560	355	495	350						
560	450	590	350						
560	560	700	350						
630	315	455	385						
630	400	540	385						
630	500	640	385						
630	630	770	385						
710	355	555	455						
710	450	650	455						
710	560	760	455						
710	710	910	455						
800	400	600	500						
800	500	700	500						
800	630	830	500						
800	800	1000	500						
900	450	650	550						
900	560	760	550						
900	710	910	550						
900	900	1100	550						
1000	500	700	600						
1000	630	830	600						
1000	800	1000	600						
1000	1000	1200	600						
1120	560	760	660						
1120	710	910	660						
1120	900	1100	660						
1120	1120	1320	660						
1250	630	830	725						
1250	800	1000	725						
1250	1000	1200	725						
1250	1250	1450	725						

The dimensions are subject to technical changes and are not bound before written confirmation.
The dimensions provided refer to material PPs. dimensions other materials may differ.

Designation Example:

T - Pipe D_N 560 / 450 PVC

prices on application



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

Version: welded

Angle α : 45°

Connections: welded on all sides

Special Design: other materials and dimensions upon request

Dimensions for branch in mm:

$$L_x = 100 + a \times D_2 + b \times L_1$$

$$L_y = D_N / 2 + b \times D_2 / 2 + c \times L_1$$

Angle	a	b	c
45°	1.06	0.707	0.707

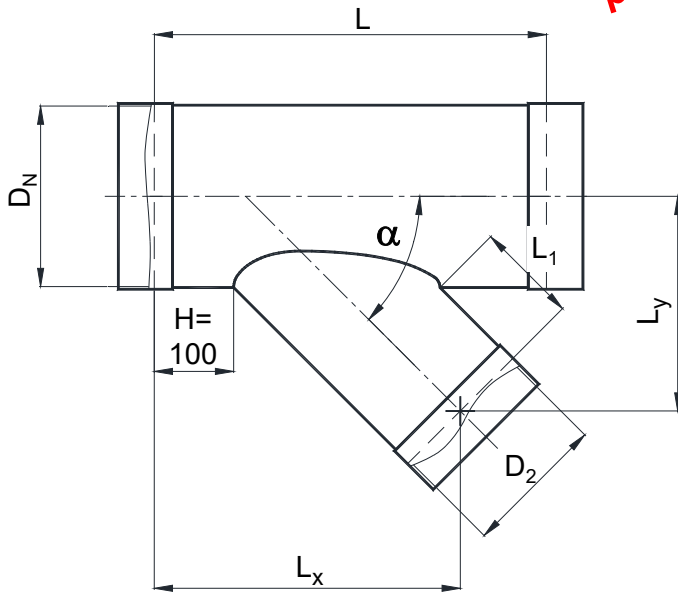
Dimensions				PPs	PE	PP	PVC	PVDF	PPsX
D ₁ mm	D ₂ mm	L mm	H mm	EUR	EUR	EUR	EUR	EUR	EUR
75	75	310	100						
90	90	330	100						
110	110	360	100						
125	75	310	100						
125	110	360	100						
125	125	380	100						
140	140	400	100						
160	75	310	100						
160	90	330	100						
160	125	380	100						
160	160	430	100						
180	180	460	100						
200	75	310	100						
200	110	360	100						
200	160	430	100						
200	200	490	100						
225	225	520	100						
250	75	310	100						
250	125	380	100						
250	200	490	100						
250	250	560	100						
280	280	650	150						
315	90	330	100						
315	160	430	100						
315	250	560	100						
315	315	700	150						
355	110	360	100						
355	200	490	100						
355	250	560	100						
355	355	760	150						

The dimensions are subject to technical changes and are not bound before written confirmation.
The dimensions provided refer to material PPs. dimensions other materials may differ.

Designation Example:

Branch Pipe 45° D_N 250 / 160 PVC

prices on application



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

Version: welded

Angle α : 45°

Connections: welded on all sides

Special Design: other materials and dimensions upon request

Dimensions for branch in mm:

$$L_x = 100 + a \times D_2 + b \times L_1$$

$$L_y = D_N / 2 + b \times D_2 / 2 + c \times L_1$$

Angle	a	b	c
45°	1.06	0.707	0.707

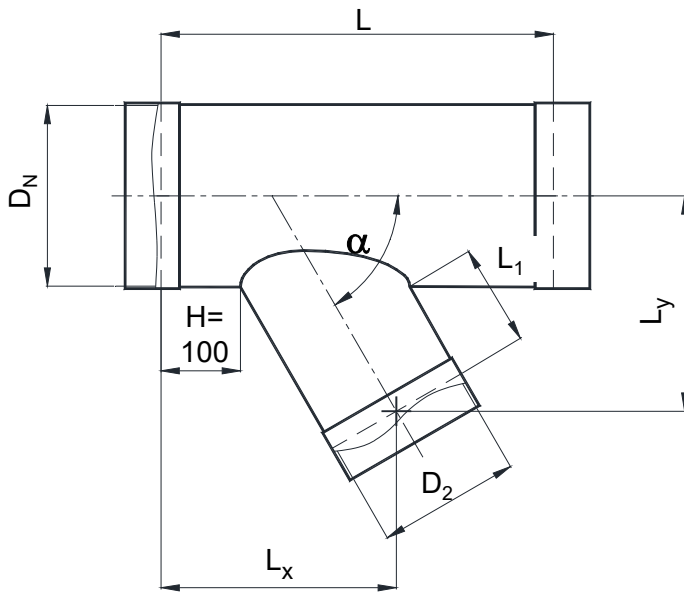
Dimensions				PPs	PE	PP	PVC	PVDF	PPsX
D ₁ mm	D ₂ mm	L mm	H mm	EUR	EUR	EUR	EUR	EUR	EUR
400	125	380	100						
400	200	490	100						
400	315	700	150						
400	400	820	150						
450	125	380	100						
450	200	490	100						
450	315	700	150						
450	450	890	150						
500	160	430	100						
500	250	560	100						
500	400	820	150						
500	500	1000	200						
560	160	430	100						
560	250	560	100						
560	400	820	150						
560	560	1100	200						
630	200	490	100						
630	315	700	150						
630	500	1000	200						
630	630	1200	200						
710	200	490	100						
710	315	700	150						
710	500	1000	200						
710	710	1360	250						
800	250	560	100						
800	400	820	150						
800	630	1200	200						
800	800	1490	250						
900	900	1630	250						
1000	1000	1820	300						
1250	1250	2170	300						

The dimensions are subject to technical changes and are not bound before written confirmation.
The dimensions provided refer to material PPs. dimensions other materials may differ.

Designation Example:

Branch Pipe 45° D_N 560 / 250 PPs

prices on application



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

Version: welded

Angle α : 60°

Connections: welded on all sides

Special Design: other materials and dimensions upon request

Dimensions for branch in mm:

$$L_x = 100 + a \times D_2 + b \times L_1$$

$$L_y = D_N / 2 + b \times D_2 / 2 + c \times L_1$$

Angle	a	b	c
60°	0.72	0.5	0.866

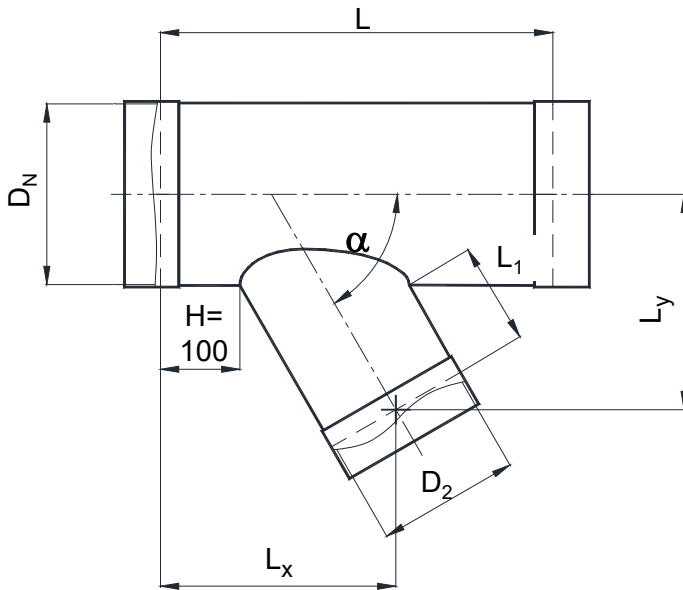
Dimensions				PPs	PE	PP	PVC	PVDF	PPsX
D ₁ mm	D ₂ mm	L mm	H mm	EUR	EUR	EUR	EUR	EUR	EUR
75	75	310	100						
90	90	330	100						
110	110	330	100						
125	75	290	100						
125	110	330	100						
125	125	350	100						
140	140	370	100						
160	75	290	100						
160	90	310	100						
160	125	350	100						
160	160	390	100						
180	180	410	100						
200	75	290	100						
200	110	330	100						
200	160	390	100						
200	200	440	100						
225	225	460	100						
250	75	290	100						
250	125	350	100						
250	200	440	100						
250	250	490	100						
280	280	580	150						
315	90	310	100						
315	160	390	100						
315	250	490	100						
315	315	620	150						
355	110	330	100						
355	200	440	100						
355	250	490	100						
355	355	660	150						

The dimensions are subject to technical changes and are not bound before written confirmation.
The dimensions provided refer to material PPs. dimensions other materials may differ.

Designation Example:

Branch Pipe 60° D_N 250 / 125 PPs

prices on application



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

- Version:** welded
- Angle α :** 60°
- Connections:** welded on all sides
- Special Design:** other materials and dimensions upon request

Dimensions for branch in mm:

$$L_x = 100 + a \times D_2 + b \times L_1$$

$$L_y = D_N / 2 + b \times D_2 / 2 + c \times L_1$$

Angle	a	b	c
60°	0.72	0.5	0.866

Dimensions				PPs	PE	PP	PVC	PVDF	PPsX
DN	D2	L	L1	EUR	EUR	EUR	EUR	EUR	EUR
mm	mm	mm	mm						
400	125	350	100						
400	200	440	100						
400	315	620	150						
400	400	720	150						
450	125	350	100						
450	200	440	100						
450	315	620	150						
450	450	770	150						
500	160	390	100						
500	250	490	100						
500	400	720	150						
500	500	880	200						
560	160	390	100						
560	250	490	100						
560	400	720	150						
560	560	950	200						
630	200	440	100						
630	315	620	150						
630	500	880	200						
630	630	1000	200						
710	200	440	100						
710	315	620	150						
710	500	880	200						
710	710	1170	250						
800	250	490	100						
800	400	720	150						
800	630	1000	200						
800	800	1280	250						
900	900	1390	250						
1000	1000	1560	300						
1250	1250	1850	300						

The dimensions are subject to technical changes and are not bound before written confirmation.
The dimensions provided refer to material PPs. dimensions other materials may differ.

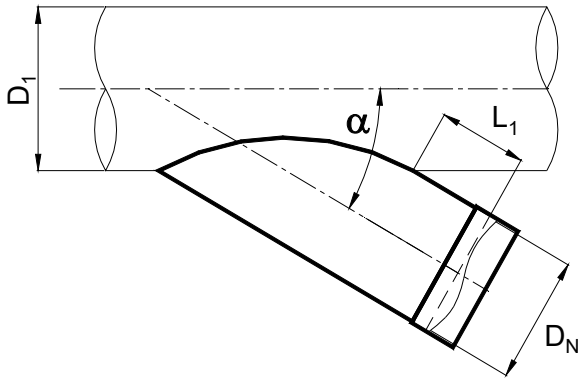
Designation Example:

Branch Pipe 60° D_N 560 / 250 PPs

Support Pipes 30° with socket, loose

Art. No. 53130 – page 1

prices on application



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

Versions: loose
 $D_N \leq 0.8 \times D_1$

Angle α : 30°

Connection: with welding

Special Design: other materials and dimensions upon request

D _N mm	Dimensions		PPs loose EUR	PE loose EUR	PP loose EUR	PVC loose EUR	PVDF loose EUR	PPsX loose EUR
	D _{1 min} mm	H mm						
50	63	100						
63	75	100						
75	90	100						
90	110	100						
110	140	100						
125	160	100						
140	180	100						
160	200	100						
180	225	100						
200	250	100						
225	280	100						
250	315	100						
280	355	150						
315	400	150						
355	450	150						
400	500	150						
450	560	150						
500	630	200						
560	710	200						
630	800	200						
710	900	250						
800	1000	250						
900	1120	250						
1000	1250	300						
1120	1400	350						
1250	1600	400						

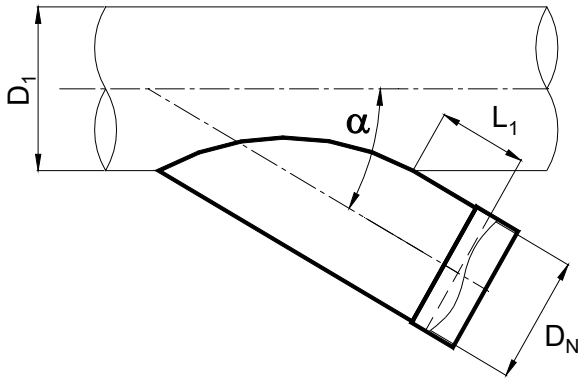
Hight H 250 instead of 300

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Support Pipe loose 30° D_N 200 / 250 PVC

prices on application



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

Versions:

welded
 $D_N \leq 0.8 \times D_1$

Angle α :

30°

Connection:

with welding

Special Design:

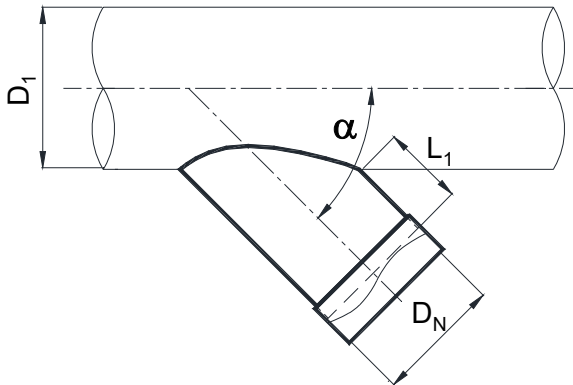
other materials and dimensions upon request

D _N mm	Dimensions		PPs welded EUR	PE welded EUR	PP welded EUR	PVC welded EUR	PVDF welded EUR	PPsX welded EUR
	D _{1 min} mm	H mm						
50	63	100						
63	75	100						
75	90	100						
90	110	100						
110	140	100						
125	160	100						
140	180	100						
160	200	100						
180	225	100						
200	250	100						
225	280	100						
250	315	100						
280	355	150						
315	400	150						
355	450	150						
400	500	150						
450	560	150						
500	630	200						
560	710	200						
630	800	200						
710	900	250						
800	1000	250						
900	1120	250						
1000	1250	300						
1120	1400	350						
1250	1600	400						

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Support Pipe welded 30° D_N 200 / 250 PVC



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

Versions: loose
 $D_N \leq 0.8 \times D_1$

Angle α : 45°

Connection: with welding

Special Design: other materials and dimensions upon request

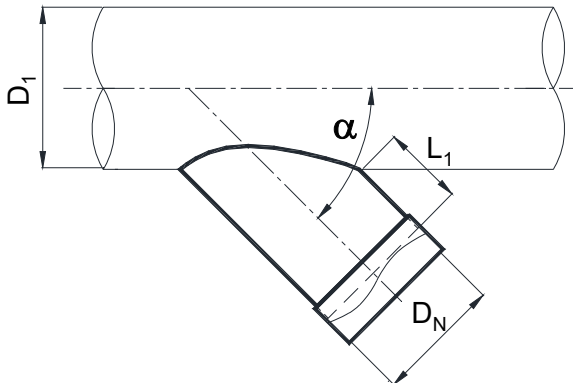
D _N mm	Dimensions		PPs loose EUR	PE loose EUR	PP loose EUR	PVC loose EUR	PVDF loose EUR	PPsX loose EUR
	D _{1 min} mm	H mm						
50	63	100						
63	75	100						
75	90	100						
90	110	100						
110	140	100						
125	160	100						
140	180	100						
160	200	100						
180	225	100						
200	250	100						
225	280	100						
250	315	100						
280	355	150						
315	400	150						
355	450	150						
400	500	150						
450	560	150						
500	630	200						
560	710	200						
630	800	200						
710	900	250						
800	1000	250						
900	1120	250						
1000	1250	300						
1120	1400	350						
1250	1600	400						

Hight H 250 instead of 300

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Support Pipe loose 45° D_N 200 / 250 PVC



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

Versions: welded
 $D_N \leq 0.8 \times D_1$

Angle α : 45°

Connection: with welding

Special Design: other materials and dimensions upon request

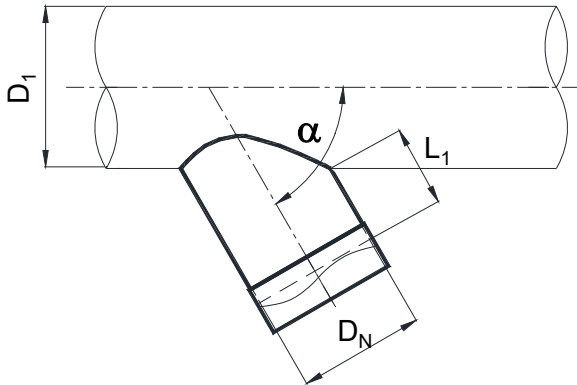
D _N mm	Dimensions		PPs welded EUR	PE welded EUR	PP welded EUR	PVC welded EUR	PVDF welded EUR	PPsX welded EUR
	D _{1 min} mm	H mm						
50	63	100						
63	75	100						
75	90	100						
90	110	100						
110	140	100						
125	160	100						
140	180	100						
160	200	100						
180	225	100						
200	250	100						
225	280	100						
250	315	100						
280	355	150						
315	400	150						
355	450	150						
400	500	150						
450	560	150						
500	630	200						
560	710	200						
630	800	200						
710	900	250						
800	1000	250						
900	1120	250						
1000	1250	300						
1120	1400	350						
1250	1600	400						

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Support Pipe welded 45° D_N 200 / 250 PVC

prices on application



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

Versions: loose
 $D_N \leq 0.8 \times D_1$

Angle α : 60°

Connection: with welding

Special Design: other materials and dimensions upon request

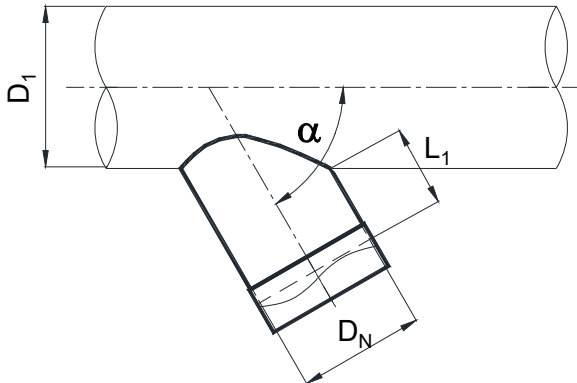
D _N mm	Dimensions		PPs loose EUR	PE loose EUR	PP loose EUR	PVC loose EUR	PVDF loose EUR	PPsX loose EUR
	D _{1 min} mm	H mm						
50	63	100						
63	75	100						
75	90	100						
90	110	100						
110	140	100						
125	160	100						
140	180	100						
160	200	100						
180	225	100						
200	250	100						
225	280	100						
250	315	100						
280	355	150						
315	400	150						
355	450	150						
400	500	150						
450	560	150						
500	630	200						
560	710	200						
630	800	200						
710	900	250						
800	1000	250						
900	1120	250						
1000	1250	300						
1120	1400	350						
1250	1600	400						

Hight H 250 instead of 300

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Support Pipe loose 60° D_N 200 / 250 PVC



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

Versions: welded
 $D_N \leq 0.8 \times D_1$

Angle α : 60°

Connection: with welding

Special Design: other materials and dimensions upon request

D_N mm	Dimensions		PPs welded EUR	PE welded EUR	PP welded EUR	PVC welded EUR	PVDF welded EUR	PPsX welded EUR
	$D_{1 \text{ min}}$ mm	H mm						
50	63	100						
63	75	100						
75	90	100						
90	110	100						
110	140	100						
125	160	100						
140	180	100						
160	200	100						
180	225	100						
200	250	100						
225	280	100						
250	315	100						
280	355	150						
315	400	150						
355	450	150						
400	500	150						
450	560	150						
500	630	200						
560	710	200						
630	800	200						
710	900	250						
800	1000	250						
900	1120	250						
1000	1250	300						
1120	1400	350						
1250	1600	400						

The dimensions are subject to technical changes and are not bound before written confirmation.

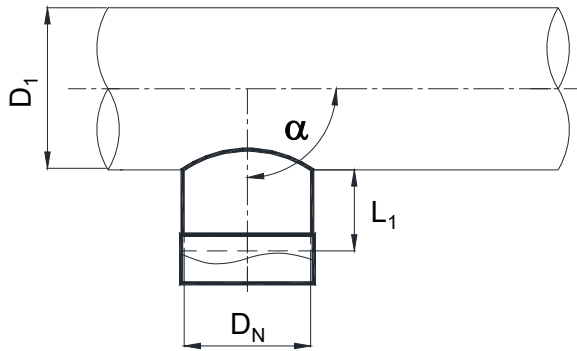
Designation Example:

Support Pipe welded 60° D_N 200 / 250 PVC

Support Pipes 90° with socket, loose

Art. No. 53130 – page 7

prices on application



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

Versions: loose
 $D_N \leq 0.8 \times D_1$

Angle α : 90°

Connection: with welding

Special Design: other materials and dimensions upon request

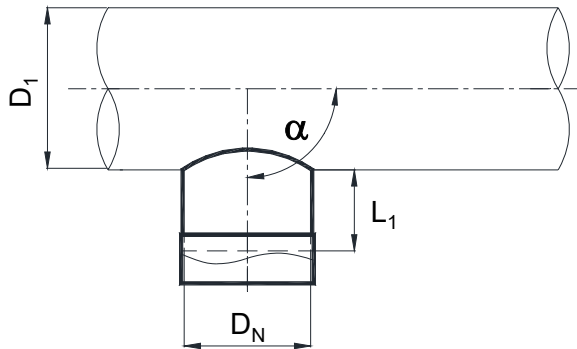
D _N mm	Dimensions		PPs loose EUR	PE loose EUR	PP loose EUR	PVC loose EUR	PVDF loose EUR	PPsX loose EUR
	D _{1 min} mm	H mm						
50	63	100						
63	75	100						
75	90	100						
90	110	100						
110	140	100						
125	160	100						
140	180	100						
160	200	100						
180	225	100						
200	250	100						
225	280	100						
250	315	100						
280	355	150						
315	400	150						
355	450	150						
400	500	150						
450	560	150						
500	630	200						
560	710	200						
630	800	200						
710	900	250						
800	1000	250						
900	1120	250						
1000	1250	300						
1120	1400	350						
1250	1600	400						

Hight H 250 instead of 300

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Support Pipe loose 90° D_N 200 / 250 PVC



Conditions of Use:

Refer back to Pipes and Bends.
For more information please refer to our development guidelines.

Versions: welded
 $D_N \leq 0.8 \times D_1$

Angle α : 90°

Connection: with welding

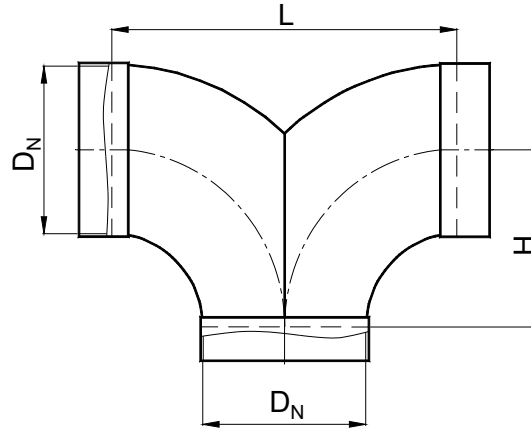
Special Design: other materials and dimensions upon request

D_N mm	Dimensions		PPs welded EUR	PE welded EUR	PP welded EUR	PVC welded EUR	PVDF welded EUR	PPsX welded EUR
	$D_{1 \text{ min}}$ mm	H mm						
50	63	100						
63	75	100						
75	90	100						
90	110	100						
110	140	100						
125	160	100						
140	180	100						
160	200	100						
180	225	100						
200	250	100						
225	280	100						
250	315	100						
280	355	150						
315	400	150						
355	450	150						
400	500	150						
450	560	150						
500	630	200						
560	710	200						
630	800	200						
710	900	250						
800	1000	250						
900	1120	250						
1000	1250	300						
1120	1400	350						
1250	1600	400						

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Support Pipe welded 90° D_N 200 / 250 PVC



Conditions of Use: In addition to chemical resistance, the permissible pressure and temperature limits should be taken into account. In practice, only the burden of negative pressure is critical.
 For more information please refer to our development guidelines.

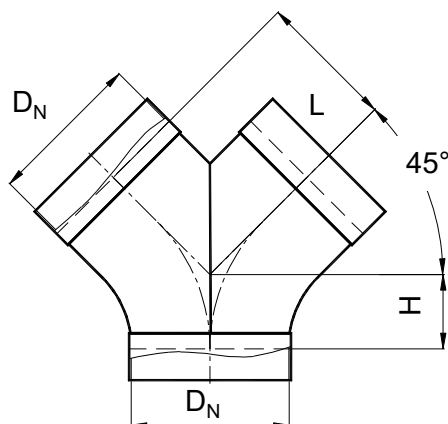
Connections: welded on all sides

Special Design: sections bigger than $D_N = 400$ upon request

Dimensions			PPs	PE	PP	PVC	PPsX
D_1 mm	L mm	H mm	EUR	EUR	EUR	EUR	EUR
75	170	85					
90	200	100					
110	240	120					
125	270	135					
140	300	150					
160	340	170					
180	380	190					
200	420	210					
225	470	235					
250	520	260					
280	580	290					
315	650	325					
355	730	365					
400	820	410					

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example: Y - Section $D_N 250 \times 90^\circ$ PVC

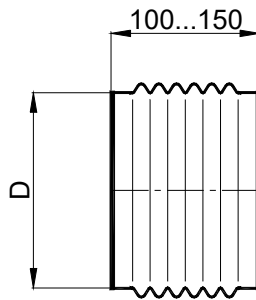


- Conditions of Use:** In addition to chemical resistance, the permissible pressure and temperature limits should be taken into account. In practice, only the burden of negative pressure is critical. For more information please refer to our development guidelines.
- Connections:** with sockets on all sides
- Special Design:** sections bigger than $D_N = 400$ upon request

Dimensions			PPs	PE	PP	PVC
D_1 mm	L mm	H mm	EUR	EUR	EUR	EUR
75	65	45				
90	70	50				
110	95	60				
125	100	65				
140	120	75				
160	140	80				
180	150	90				
200	175	95				
225	185	105				
250	215	115				
280	245	130				
315	275	145				
355	305	160				
400	355	180				

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example: Y - Section D_N 250 x 45° PVC



Design G
smooth

Conditions of Use:

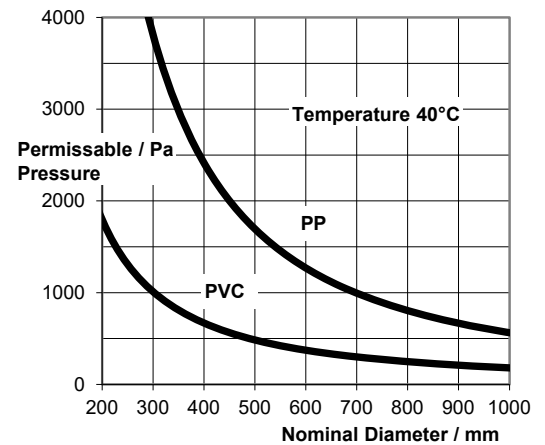
Working Pressure **PVC:** 3000 Pa at 50 °C
PP/PPX: 3000 Pa at 70 °C

Permissible negative pressure: refer to adjacent diagram

At higher negative pressure, **Design M-LR** or **F-LR** (with air guiding setup) should be utilized. Otherwise brace rings must be attached.

Tension band:

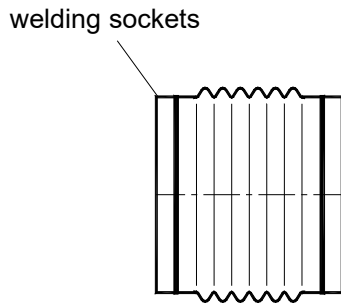
Band with embossed thread and quick-release stainless steel A2.



Dimensions D_N mm	PVC EUR	PP EUR	PPX EUR	Tension band Sta. steel A2 EUR
75				
90				
110				
125				
140				
160				
180				
200				
225				
250				
280				
315				
355				
400				
450				
500				
560				
630				
710				
800				
900				
1000				
1120				
1250				

Designation Example:

Compensator G D_N 250 PVC



Design M
with welding sockets

Conditions of Use:

Working Pressure **PVC:** 3000 Pa at 50 °C
PP/PPX: 3000 Pa at 70 °C

Permissible negative pressure: refer to adjacent diagram

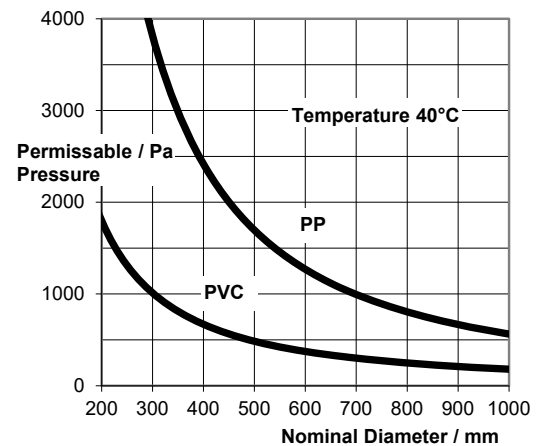
At higher negative pressure, **Design M-LR** (with air guiding setup) should be utilized. Otherwise brace rings must be attached.

Materials :

PVC corrugated PVC flex, socket made of hard PVC
PPs corrugated PP flex, socket made of PPs

Tension band:

Band with embossed thread and quick-release stainless steel A2.

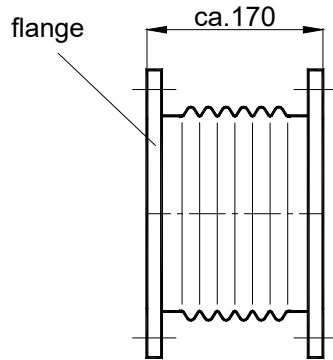


Design M				Add. Price for Design LR (air guiding setup)		
Dimensions	PVC	PP/PPs	PPX/PPsX	PVC	PPs	PPsX
D_N mm	EUR	EUR	EUR	EUR	EUR	EUR
75						
90						
110						
125						
140						
160						
180						
200						
225						
250						
280						
315						
355						
400						
450						
500						
560						
630						
710						
800						
900						
1000						
1120						
1250						

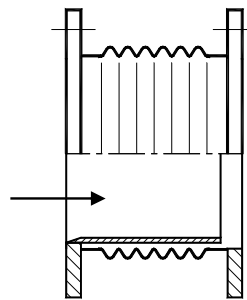
Designation Example:

Compensator M D_N 250 PVC
Compensator M-LR D_N 250 PVC

prices on application



Design F
with flange acc. MWS 53030



Design F-LR
with air guiding setup

Conditions of Use:

Working Pressure **PVC:** 3000 Pa at 50 °C
PP/PPX: 3000 Pa at 70 °C

Permissible negative pressure: refer to adjacent diagram

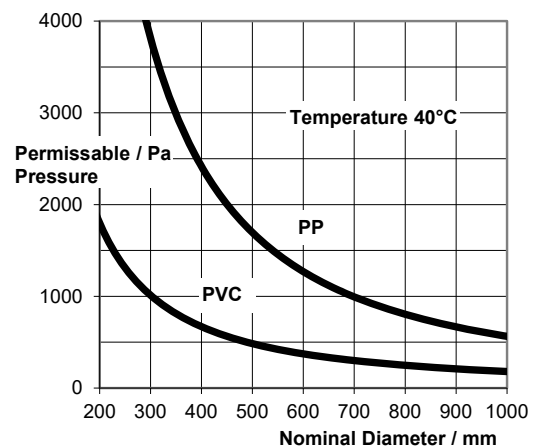
At higher negative pressure, **Design F-LR** (with air guiding setup) should be utilized. Otherwise brace rings must be attached.

Materials :

- PVC** corrugated PVC flex, flange made of hard PVC
- PPs/PP/PE** corrugated PP flex, flange made of PPs/PP/PE
- PPsX** corrugated PPX flex, flange made of PPsX

Tension band:

Band with embossed thread and quick-release stainless steel A2.

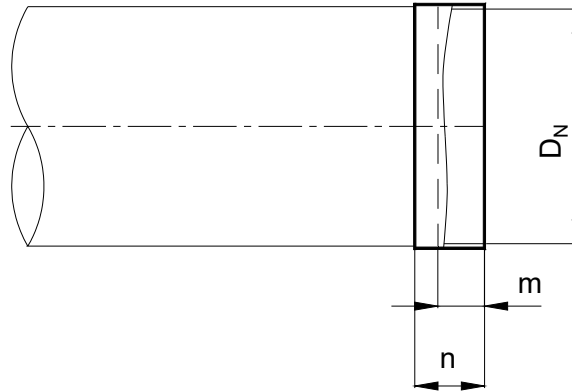


Dimensions D_N mm	Design Flange undrilled and drilled Reihe 1 acc. MWS 53030			Add. Price for Flange drilled Reihe 2 acc. MWS 53030			Add. Price for Design LR (air guiding setup)		
	PVC EUR	PPs/ PP/PE EUR	PPsX EUR	PVC EUR	PPs/ PP/PE EUR	PPsX EUR	PVC EUR	PPs/ PP/PE EUR	PPsX EUR
75									
90									
110									
125									
140									
160									
180									
200									
225									
250									
280									
315									
355									
400									
450									
500									
560									
630									
710									
800									
900									
1000									
1120									
1250									

Designation Example:

Compensator F D_N 250 PVC

Compensator F-LR D_N 250 PVC

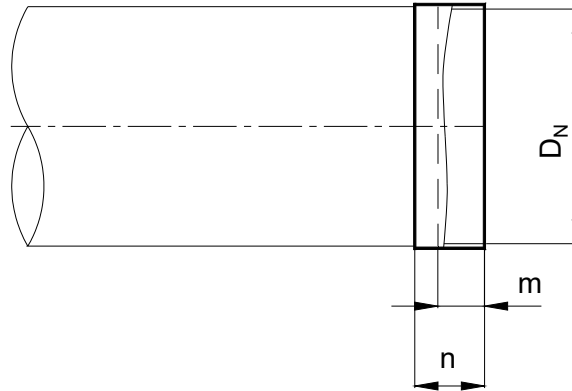


Operating Conditions: The sockets are **predominantly** welded to the connection components.

Dimensions		m	PPs	PE	PP	PVC	PVDF	PPsX
D _N mm	n mm		EUR	EUR	EUR	EUR	EUR	EUR
75	50	30						
90	50	30						
110	50	30						
125	50	30						
140	50	30						
160	50	30						
180	50	30						
200	50	30						
225	50	30						
250	50	30						
280	50	30						
315	50	30						
355	50	30						
400	50	30						
450	80	50						
500	80	50						
560	80	50						
630	80	50						
710	80	50						
800	80	50						
900	80	50						
1000	80	50						
1120	80	50						
1250	80	50						

Designation Example:

socket - loose D_N 250 PVC

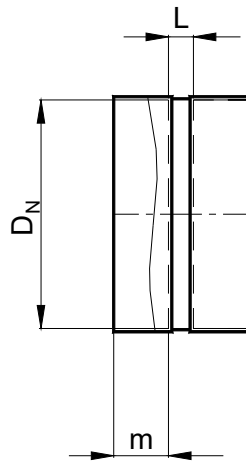


Operating Conditions: The sockets are **predominantly** welded to the connection components.

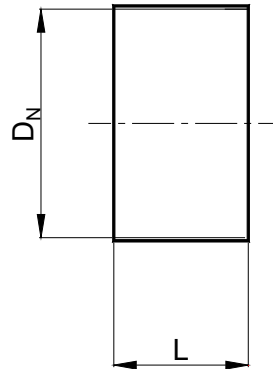
Dimensions		m	PPs	PE	PP	PVC	PVDF	PPsX
D _N mm	n mm		EUR	EUR	EUR	EUR	EUR	EUR
75	50	30						
90	50	30						
110	50	30						
125	50	30						
140	50	30						
160	50	30						
180	50	30						
200	50	30						
225	50	30						
250	50	30						
280	50	30						
315	50	30						
355	50	30						
400	50	30						
450	80	50						
500	80	50						
560	80	50						
630	80	50						
710	80	50						
800	80	50						
900	80	50						
1000	80	50						
1120	80	50						
1250	80	50						

Designation Example:

socket - welded D_N 250 PVC



injected ($D_N \leq 400$)



welded ($D_N > 400$)

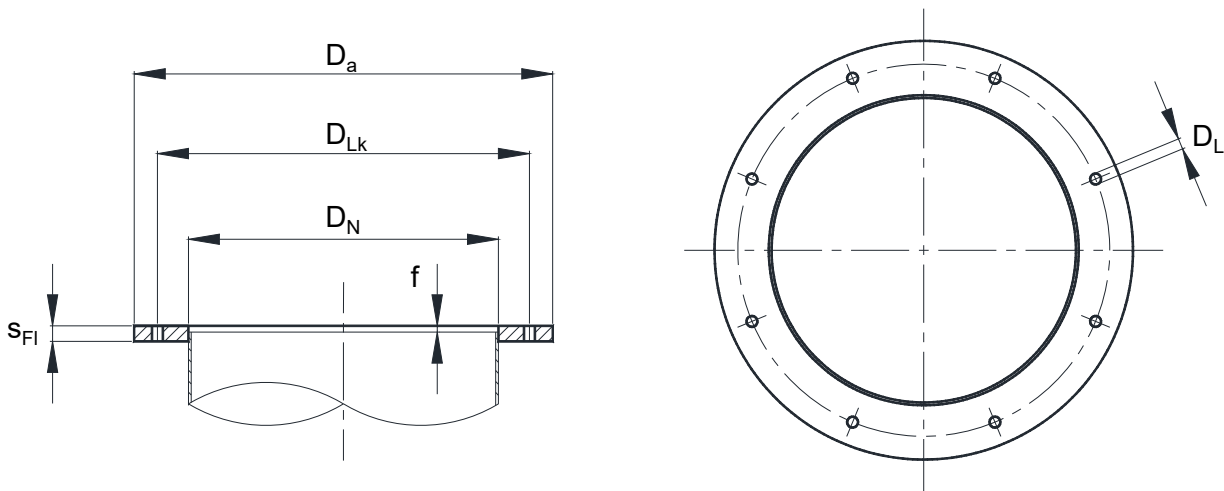
Operating Conditions: The sockets are **predominantly** welded to the connection components.

D_N mm	Dimensions		PPs	PE	PP	PVC	PVDF	PPsX
	L mm	m mm	EUR	EUR	EUR	EUR	EUR	EUR
50	5	40						
63	5	40						
75	5	40						
90	5	40						
110	5	40						
125	5	40						
140	5	40						
160	5	40						
180	5	40						
200	5	40						
225	5	40						
250	5	40						
280	5	50						
315	5	50						
355	5	50						
400	5	50						
450	100	-						
500	100	-						
560	100	-						
630	100	-						
710	100	-						
800	100	-						
900	100	-						
1000	100	-						
1120	100	-						
1250	100	-						

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Double socket D_N 250 PVC



Design: Flange dimensions (bolt pattern and holes) designed according to Mietzsch Factory Standard MWS 53030.

Series R1 is intended for general applications.

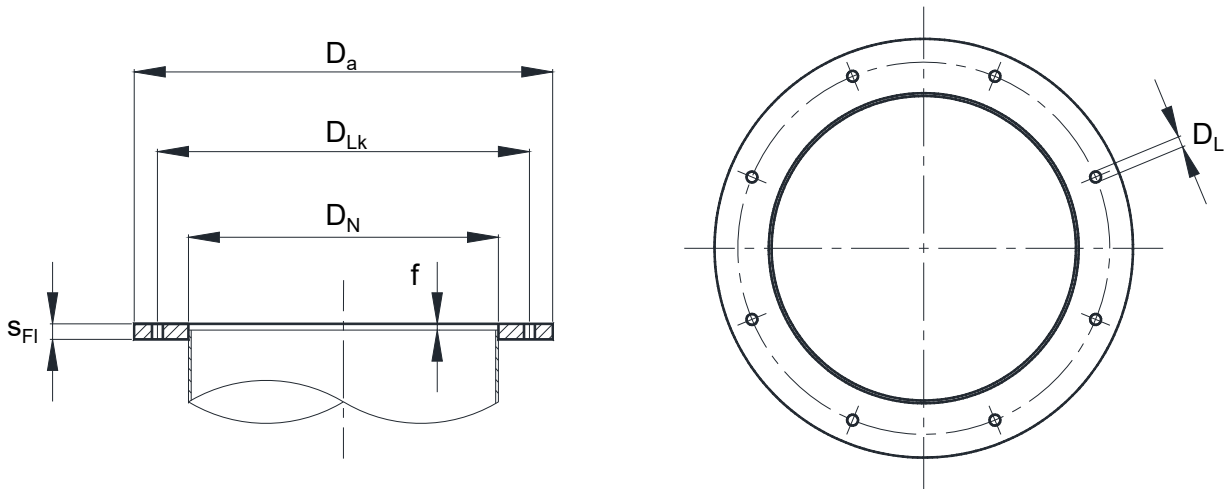
Undrilled flanges (Series R0) are possible. Other flange dimensions, i.e. in accordance with the requirements for sheet metal flanges (DIN EN 12220) are available on request.

Assembly: With flange assembly, ensure that no hole sits at the lowest point.

D _N mm	Dimensions					# of holes R1	PPs EUR	PE EUR	PP EUR	PVC EUR	PVDF EUR	PPsX EUR
	D _a mm	D _{Lk} mm	D _L mm	S _{Fl} mm	f mm							
50	110	90	7	10	4	4						
63	123	103	7	10	4	4						
75	135	115	7	10	4	4						
90	150	130	7	10	4	4						
110	170	150	7	10	4	4						
125	185	165	7	10	4	8						
140	200	175	7	10	4	8						
160	230	200	7	10	5	8						
180	250	220	7	10	5	8						
200	270	240	7	10	5	8						
225	295	265	7	10	5	8						
250	320	290	7	10	5	12						
280	360	325	10	10	6	12						
315	395	360	10	10	6	12						
355	435	400	10	10	6	12						
400	480	444	10	10	6	12						
450	530	494	10	10	6	12						
500	580	544	10	10	6	12						
560	640	604	10	10	6	16						
630	710	674	10	10	6	16						
710	790	754	10	10	6	18						
800	880	844	10	10	6	20						
900	1000	960	10	12	8	20						
1000	1100	1060	10	12	8	24						
1120	1220	1180	10	12	8	24						
1250	1350	1310	10	12	8	28						

Designation Example:

Flange loose R1 D_N 250 PVC



Design: Flange dimensions (bolt pattern and holes) designed according to Mietzsch Factory Standard MWS 53030.

Series R1 is intended for general applications

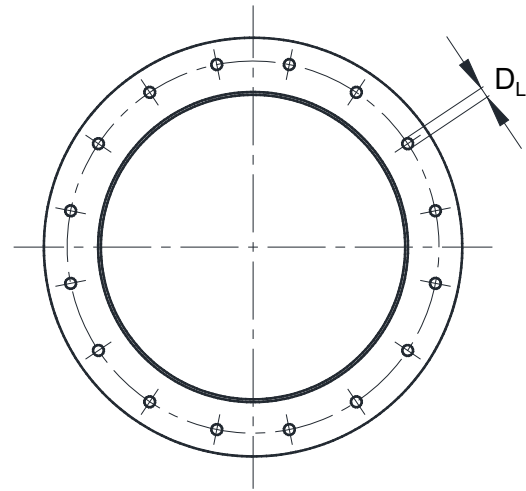
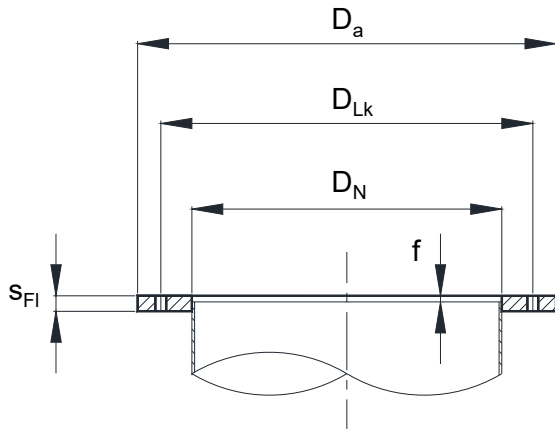
Undrilled flanges (Series R0) are possible. Other flange dimensions, i.e. in accordance with the requirements for sheet metal flanges (DIN EN 12220) are available on request.

Assembly: With flange assembly, ensure that no hole sits at the lowest point.

D _N mm	Dimensions					# of holes R1	PPs EUR	PE EUR	PP EUR	PVC EUR	PVDF EUR	PPsX EUR
	D _a mm	D _{Lk} mm	D _L mm	S _{Fl} mm	f mm							
50	110	90	7	10	4	4						
63	123	103	7	10	4	4						
75	135	115	7	10	4	4						
90	150	130	7	10	4	4						
110	170	150	7	10	4	4						
125	185	165	7	10	4	8						
140	200	175	7	10	4	8						
160	230	200	7	10	5	8						
180	250	220	7	10	5	8						
200	270	240	7	10	5	8						
225	295	265	7	10	5	8						
250	320	290	7	10	5	12						
280	360	325	10	10	6	12						
315	395	360	10	10	6	12						
355	435	400	10	10	6	12						
400	480	444	10	10	6	12						
450	530	494	10	10	6	12						
500	580	544	10	10	6	12						
560	640	604	10	10	6	16						
630	710	674	10	10	6	16						
710	790	754	10	10	6	18						
800	880	844	10	10	6	20						
900	1000	960	10	12	8	20						
1000	1100	1060	10	12	8	24						
1120	1220	1180	10	12	8	24						
1250	1350	1310	10	12	8	28						

Designation Example:

Flange welded R1 D_N 250 PVC



Design:

Flange dimensions (bolt pattern and holes) designed according to Mietzsch Factory Standard MWS 53030.

Series R2 with double hole number is used at elevated condensation and moisture accumulation or at higher pressures.

Other flange dimensions. i.e. in accordance with the requirements for sheet metal flanges (DIN EN 12220) are available on request.

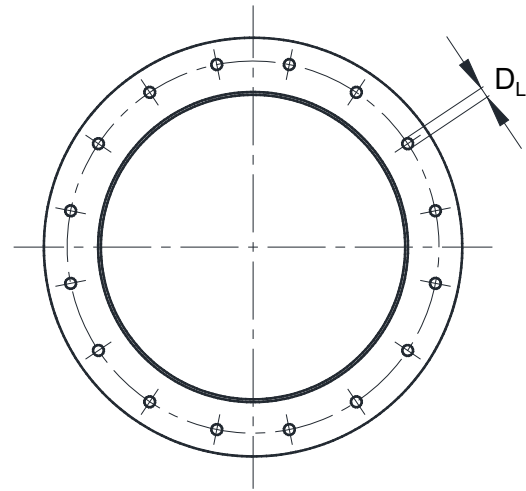
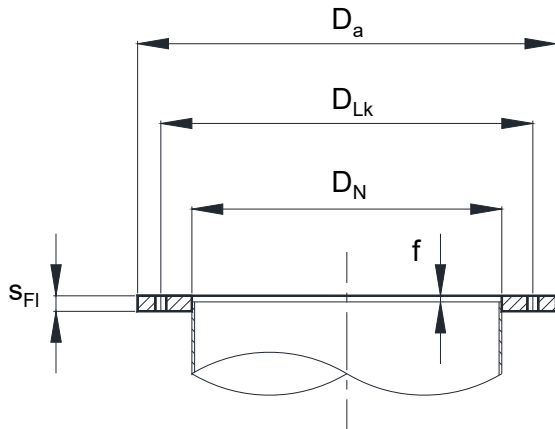
Assembly:

With flange assembly. ensure that no hole sits at the lowest point.

D _N mm	Dimensions					# of holes R2	PPs	PE	PP	PVC	PVDF	PPsX
	D _a mm	D _{Lk} mm	D _L mm	S _{Fl} mm	f mm		EUR	EUR	EUR	EUR	EUR	EUR
50	110	90	7	10	4	8						
63	123	103	7	10	4	8						
75	135	115	7	10	4	8						
90	150	130	7	10	4	8						
110	170	150	7	10	4	8						
125	185	165	7	10	4	16						
140	200	175	7	10	4	16						
160	230	200	7	10	5	16						
180	250	220	7	10	5	16						
200	270	240	7	10	5	16						
225	295	265	7	10	5	16						
250	320	290	7	10	5	24						
280	360	325	10	10	6	24						
315	395	360	10	10	6	24						
355	435	400	10	10	6	24						
400	480	444	10	10	6	24						
450	530	494	10	10	6	24						
500	580	544	10	10	6	24						
560	640	604	10	10	6	32						
630	710	674	10	10	6	32						
710	790	754	10	10	6	36						
800	880	844	10	10	6	40						
900	1000	960	10	12	8	40						
1000	1100	1060	10	12	8	48						
1120	1220	1180	10	12	8	48						
1250	1350	1310	10	12	8	56						

Designation Example:

Flange loose R2 D_N 250 PVC



Design:

Flange dimensions (bolt pattern and holes) designed according to Mietzsch Factory Standard MWS 53030.

Series R2 with double hole number is used at elevated condensation and moisture accumulation or at higher pressures.

Other flange dimensions. i.e. in accordance with the requirements for sheet metal flanges (DIN EN 12220) are available on request.

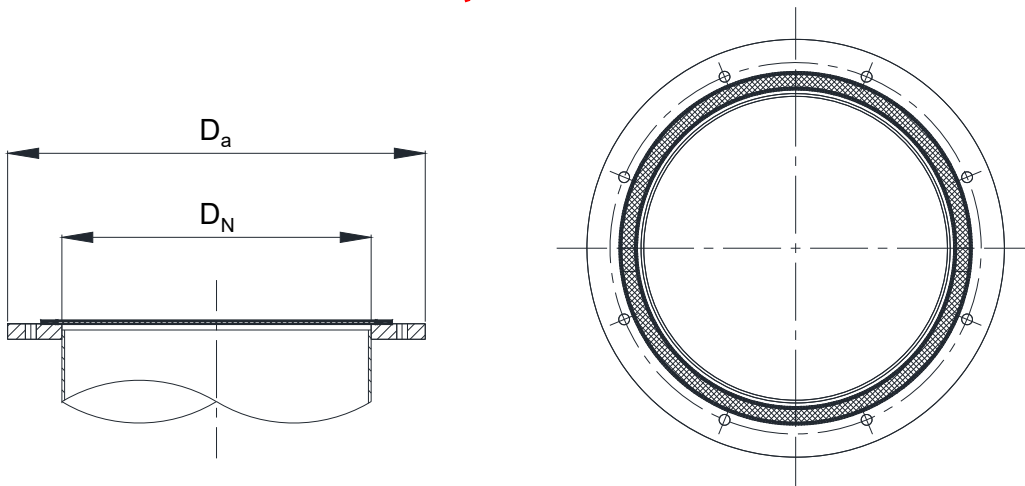
Assembly:

With flange assembly. ensure that no hole sits at the lowest point.

D _N mm	Dimensions					# of holes R2	PPs	PE	PP	PVC	PVDF	PPsX
	D _a mm	D _{Lk} mm	D _L mm	S _{Fl} mm	f mm		EUR	EUR	EUR	EUR	EUR	EUR
50	110	90	7	10	4	8						
63	123	103	7	10	4	8						
75	135	115	7	10	4	8						
90	150	130	7	10	4	8						
110	170	150	7	10	4	8						
125	185	165	7	10	4	16						
140	200	175	7	10	4	16						
160	230	200	7	10	5	16						
180	250	220	7	10	5	16						
200	270	240	7	10	5	16						
225	295	265	7	10	5	16						
250	320	290	7	10	5	24						
280	360	325	10	10	6	24						
315	395	360	10	10	6	24						
355	435	400	10	10	6	24						
400	480	444	10	10	6	24						
450	530	494	10	10	6	24						
500	580	544	10	10	6	24						
560	640	604	10	10	6	32						
630	710	674	10	10	6	32						
710	790	754	10	10	6	36						
800	880	844	10	10	6	40						
900	1000	960	10	12	8	40						
1000	1100	1060	10	12	8	48						
1120	1220	1180	10	12	8	48						
1250	1350	1310	10	12	8	56						

Designation Example:

Flange welded R2 D_N 250 PVC



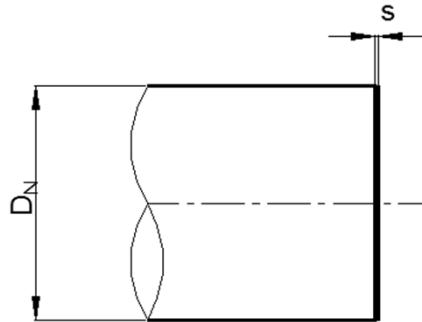
- Dichtung:**
- PVC 3x12: good resistance to diluted acids, alkaline solutions, surfactants, alcohols, oils and water, not resistant to aromatic and chlorinated hydrocarbons, ketones, esters und ether (temperature: -30°C .. max. +60°C)
 - EPDM 3x10: resistant to diluted acids, concentrated alkaline solutions, ketones and hot water not resistant to oils, hydrocarbons, fuels und esters (temperature: -40°C .. 100°C)
 - PTFE 2.5x7: very good resistance to almost all chemicals in the application area , no aging (temperature: -60°C .. 150°C)
physiologically harmless according to VD/VDE guideline 2480 page 1
 - EPDM Ø5 : round cord seal upon request

Assembly: With flange assembly. ensure that no hole sits at the lowest point.

Dimensions		PVC	EPDM	PTFE
D _N mm	D _a mm	3x12 mm EUR	3x10mm EUR	2.5x7mm EUR
50	110			
63	123			
75	135			
90	150			
110	170			
125	185			
140	200			
160	230			
180	250			
200	270			
225	295			
250	320			
280	360			
315	395			
355	435			
400	480			
450	530			
500	580			
560	640			
630	710			
710	790			
800	880			
900	1000			
1000	1100			
1120	1220			
1250	1350			

Designation Example: Flange welded R2 D_N 250 PVC
PTFE-Seal D_N 250

prices on application



Operating Conditions: In addition to chemical resistance, the permissible pressure and temperature limit should be taken into account.

Permissible Pressure Difference for End Base: PVC : 1600 Pa at 30 °C
PPs : 1000 Pa at 30 °C

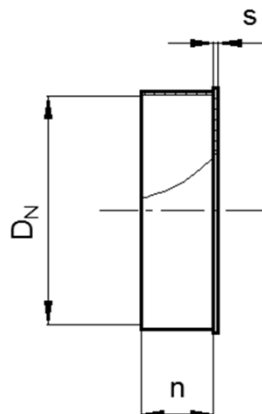
Design: End Base welded to Pipe

Special Design: larger dimensions and higher pressures / temperatures available upon request

Dimensions			PPs	PE	PP	PVC	PVDF	PPsX
D_N mm	s-PVC mm	s-PPs mm	EUR	EUR	EUR	EUR	EUR	EUR
50	4	4						
63	4	4						
75	4	4						
90	4	4						
110	4	4						
125	4	4						
140	4	4						
160	4	4						
180	4	4						
200	4	4						
225	4	4						
250	4	4						
280	4	4						
315	4	4						
355	4	4						
400	4	4						
450	4	4						
500	4	4						
560	5	5						
630	5	5						
710	6	5						
800	6	5						
900	6	6						
1000	6	6						
1120	6	6						
1250	6	6						

Designation Example: End Base D_N 250 PVC

prices on application



Operating Conditions: In addition to chemical resistance, the permissible pressure and temperature limit should be taken into account.

Permissible Pressure Difference for Socket Cover: PVC : 1600 Pa at 30 °C
PPs : 1000 Pa at 30 °C

Design: Socket Cover consisting of End Base welded to socket

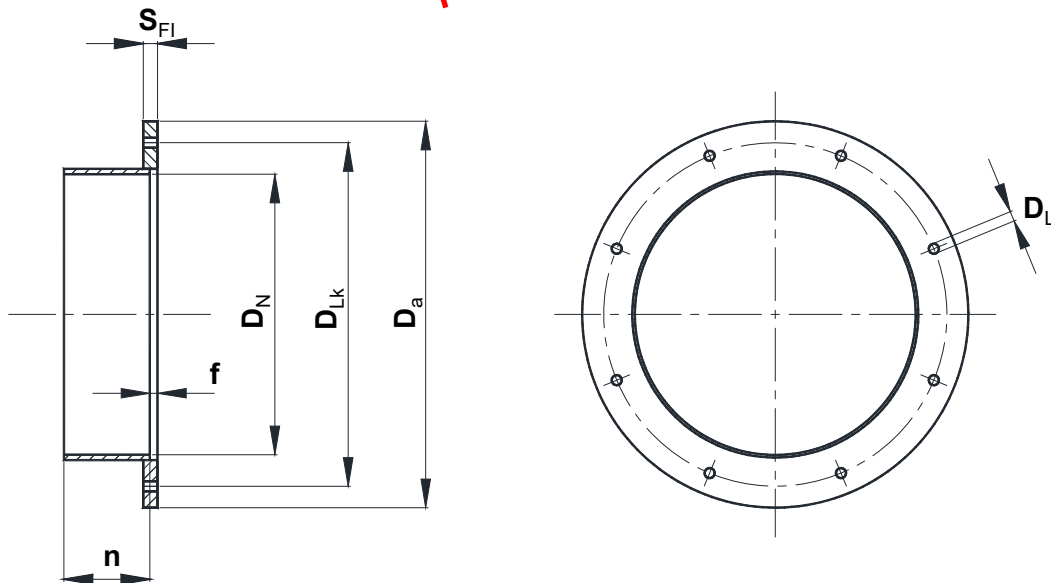
Special Design: larger dimensions and higher pressures / temperatures available upon request

Dimensions		s-PPs mm	n mm	PPs	PE	PP	PVC	PVDF	PPsX
D _N mm	s-PVC mm			EUR	EUR	EUR	EUR	EUR	EUR
50	4	4	50						
63	4	4	50						
75	4	4	50						
90	4	4	50						
110	4	4	50						
125	4	4	50						
140	4	4	50						
160	4	4	50						
180	4	4	50						
200	4	4	50						
225	4	4	50						
250	4	4	50						
280	4	4	50						
315	4	4	50						
355	4	4	50						
400	4	4	50						
450	5	5	80						
500	5	6	80						
560	5	6	80						
630	6	8	80						
710	6	8	80						
800	8	10	80						
900	8	10	80						
1000	8	10	80						
1120	10	12	80						
1250	10	12	80						

Designation Example:

Socket Cover D_N 250 PPs

prices on application



Operating Conditions: In addition to chemical resistance, the permissible pressure and temperature limit should be taken into account.

Design: Socket Flange consisting of socket welded to Flange

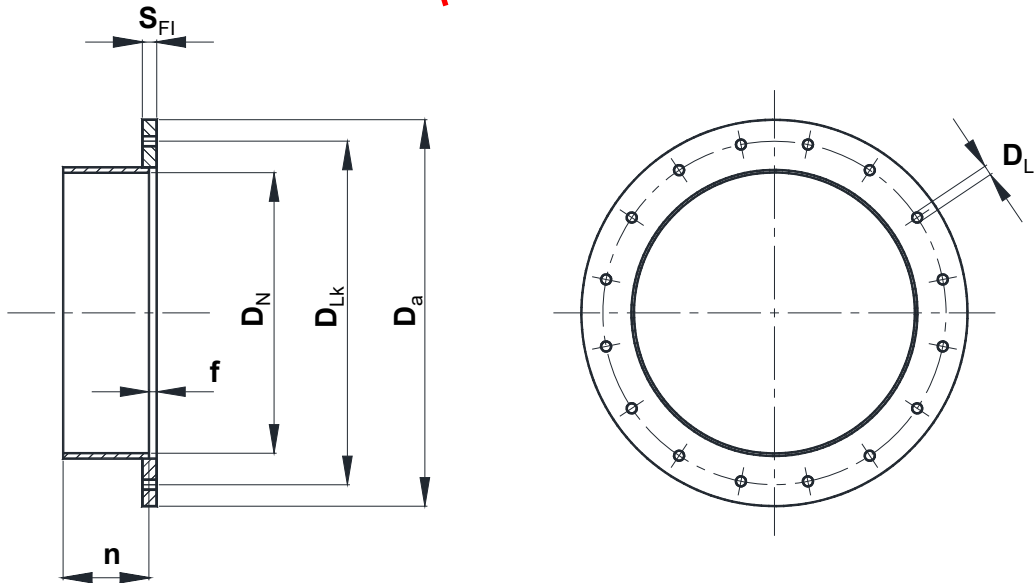
Special Design: larger dimensions and higher pressures/temperatures available upon request

D _N mm	Dimensions					# of holes R1	n mm	PPs	PE	PP	PVC	PVDF	PPsX
	D _a mm	D _{Lk} mm	D _L mm	S _{Fl} mm	f mm			EUR	EUR	EUR	EUR	EUR	
50	110	90	7	10	4	4	50						
63	123	103	7	10	4	4	50						
75	135	115	7	10	4	4	50						
90	150	130	7	10	4	4	50						
110	170	150	7	10	4	4	50						
125	185	165	7	10	4	8	50						
140	200	175	7	10	4	8	50						
160	230	200	7	10	5	8	50						
180	250	220	7	10	5	8	50						
200	270	240	7	10	5	8	50						
225	295	265	7	10	5	8	50						
250	320	290	7	10	5	12	50						
280	360	325	10	10	6	12	50						
315	395	360	10	10	6	12	50						
355	435	400	10	10	6	12	50						
400	480	444	10	10	6	12	50						
450	530	494	10	10	6	12	80						
500	580	544	10	10	6	12	80						
560	640	604	10	10	6	16	80						
630	710	674	10	10	6	16	80						
710	790	754	10	10	6	18	80						
800	880	844	10	10	6	20	80						
900	1000	960	10	12	8	20	80						
1000	1100	1060	10	12	8	24	80						
1120	1220	1180	10	12	8	24	80						
1250	1350	1310	10	12	8	28	80						

Designation Example:

Socket Flange R1 D_N 250 PPs

prices on application



Operating Conditions: In addition to chemical resistance, the permissible pressure and temperature limit should be taken into account.

Design: Socket Flange consisting of socket welded to Flange

Special Design: larger dimensions and higher pressures/temperatures available upon request

D _N mm	Dimensions					# of holes R2	n mm	PPs	PE	PP	PVC	PVDF	PPsX
	D _a mm	D _{Lk} mm	D _L mm	S _{Fl} mm	f mm			EUR	EUR	EUR	EUR	EUR	EUR
50	110	90	7	10	4	8	50						
63	123	103	7	10	4	8	50						
75	135	115	7	10	4	8	50						
90	150	130	7	10	4	8	50						
110	170	150	7	10	4	8	50						
125	185	165	7	10	4	16	50						
140	200	175	7	10	4	16	50						
160	230	200	7	10	5	16	50						
180	250	220	7	10	5	16	50						
200	270	240	7	10	5	16	50						
225	295	265	7	10	5	16	50						
250	320	290	7	10	5	24	50						
280	360	325	10	10	6	24	50						
315	395	360	10	10	6	24	50						
355	435	400	10	10	6	24	50						
400	480	444	10	10	6	24	50						
450	530	494	10	10	6	24	80						
500	580	544	10	10	6	24	80						
560	640	604	10	10	6	32	80						
630	710	674	10	10	6	32	80						
710	790	754	10	10	6	36	80						
800	880	844	10	10	6	40	80						
900	1000	960	10	12	8	40	80						
1000	1100	1060	10	12	8	48	80						
1120	1220	1180	10	12	8	48	80						
1250	1350	1310	10	12	8	56	80						

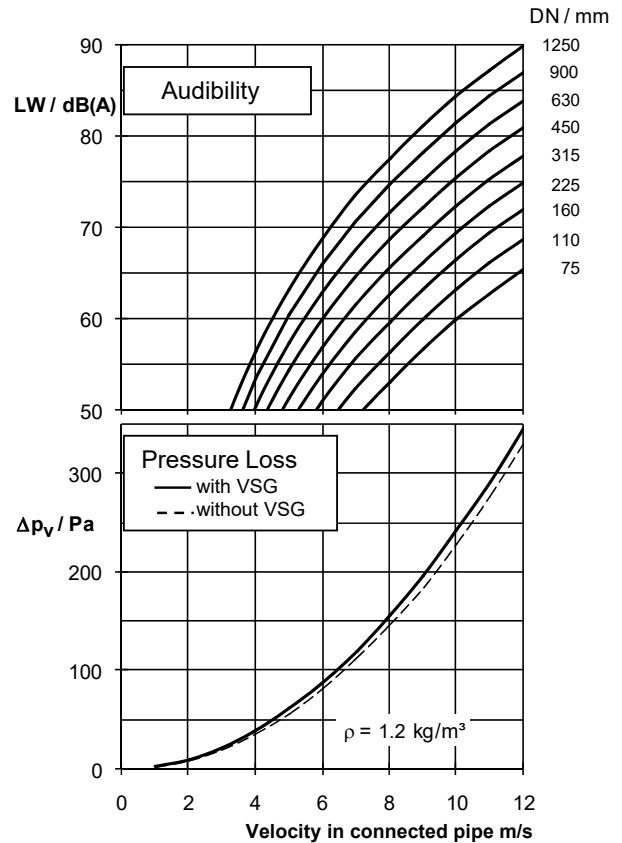
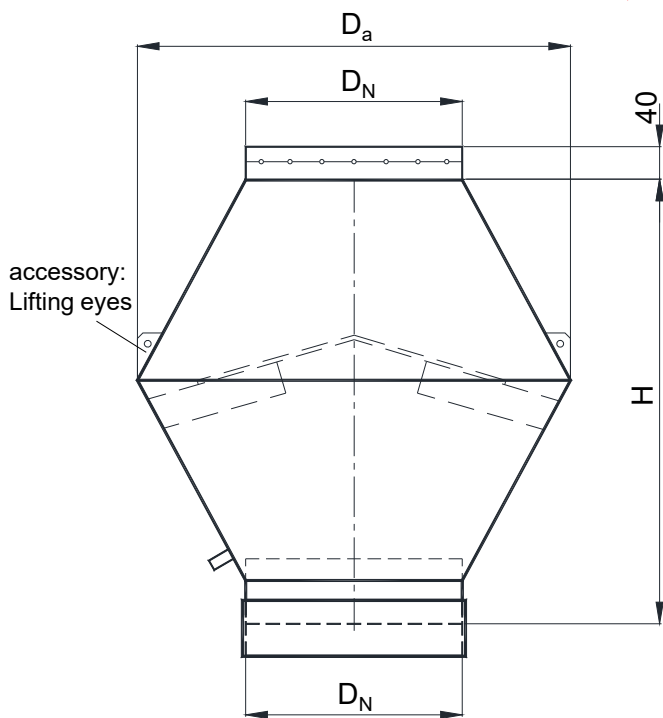
Designation Example:

Socket Flange R2 D_N 250 PPs

Deflector Hood with socket and bird screen

Art. No. 53200

prices on application



- Max. Operating Temp. :** 50 °C for PVC
70 °C for PPs
- Connection:** Standard (with socket (M) and bird screen (VSG))
- Pressure Loss:** see diagram
- Audibility:** see diagram
- Special Design:** disassembled for maintenance and cleaning (with clamp closure)
other materials available upon request
connection smooth (G) / flange (F) upon request

Dimensions			Weight		PPs	PE	PVC	PVDF	PPsX	PEX	removable Clamp Closure
D _N mm	D _a mm	H mm	PPs kg	PVC kg	EUR	EUR	EUR	EUR	EUR	EUR	Aufpreis / EUR
75	150	162	0.2	0.3							
90	180	188	0.3	0.4							
110	220	245	0.5	0.6							
125	250	271	0.6	0.9							
140	280	297	0.8	1.1							
160	320	341	1.1	1.5							
180	360	373	1.3	1.8							
200	400	410	1.6	2.2							
225	450	453	2.5	2.8							
250	500	492	3.1	3.5							
280	560	533	3.9	4.3							
315	630	638	5.2	7.2							
355	710	704	7.6	9.0							
400	800	782	10.0	12.0							
450	900	880	14.0	16.0							
500	1000	989	17.5	23.0							
560	1120	1100	23.0	28.0							
630	1260	1220	28.0	35.5							
710	1420	1385	37.0	50.0							
800	1600	1569	45.5	66.5							
900	1800	1755	66.0	85.0							
1000	2000	1920	87.0	103.0							
1120	2250	2200	105.0	120.0							
1250	2500	2450	122.0	138.0							

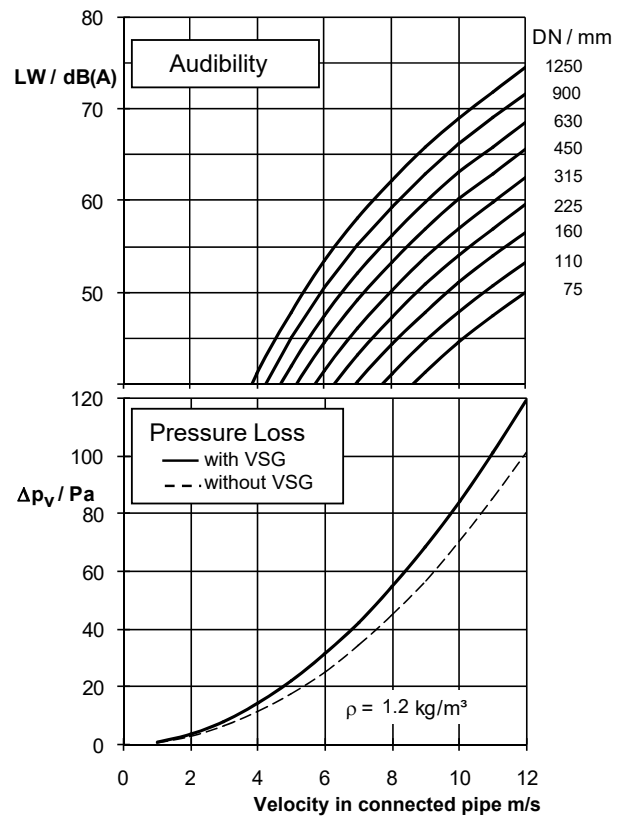
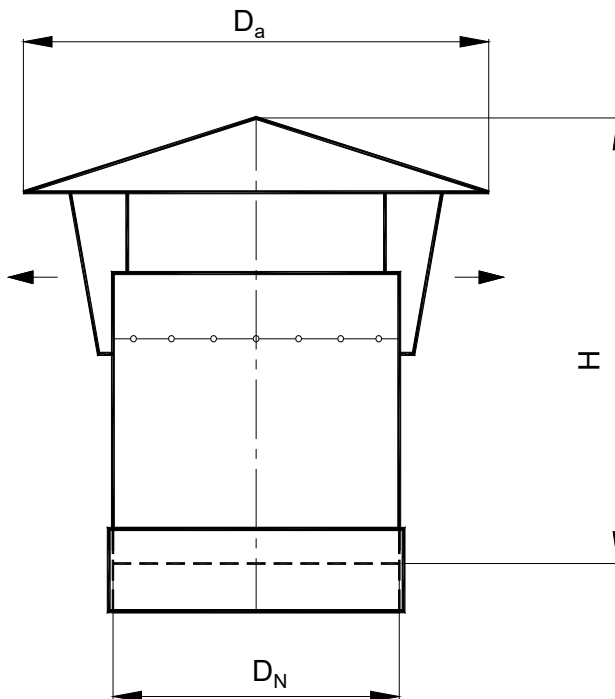
Designation Example:

Deflector Hood with socket and VSG M D_N 250 PVC

Exhaust Air Hood with socket and bird screen

Art. No. 53210

prices on application



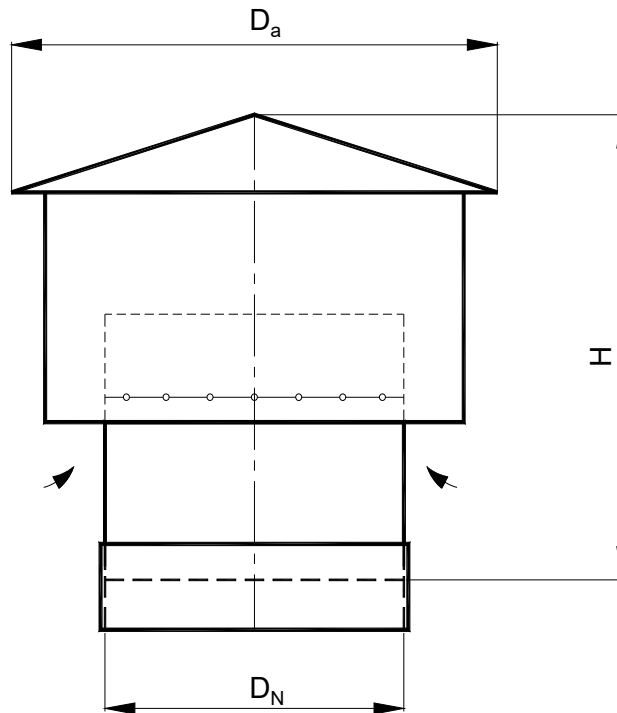
- Max. Operating Temp. :** 50 °C for PVC
70 °C for PPs
- Connection:** Standard (with socket (M), bird screen (VSG) and clamp closure)
- Pressure Loss:** see diagram
- Audibility:** see diagram
- Special Design:** disassembled for maintenance and cleaning (with clamp closure)
other materials available upon request
connection smooth (G) / flange (F) upon request

Dimensions			Weight		PPs	PE	PVC	PVDF	PPsX	PEX	removable Clamp Closure
D _N mm	D _a mm	H mm	PPs kg	PVC kg	EUR	EUR	EUR	EUR	EUR	EUR	Aufpreis / EUR
75	135	120	0.1	0.1							
90	170	133	0.1	0.2							
110	190	165	0.2	0.2							
125	210	167	0.3	0.3							
140	235	179	0.3	0.4							
160	260	221	0.4	0.5							
180	290	249	0.5	0.6							
200	325	280	0.7	0.8							
225	365	308	0.9	1.0							
250	410	331	1.3	1.1							
280	460	365	1.5	1.8							
315	515	413	2.2	2.6							
355	595	450	3.1	3.6							
400	675	489	4.2	4.8							
450	765	550	6.2	6.5							
500	830	596	6.6	8.9							
560	950	685	10.5	12.0							
630	1100	771	12.0	15.0							
710	1210	865	15.5	19.5							
800	1375	975	20.0	25.5							
900	1530	1100	33.0	39.0							
1000	1700	1220	44.0	53.0							
1120	1900	1370	58.5	57.0							
1250	2120	1530	71.0	68.0							

Designation Example:

Exhaust Air Hood with socket and VSG M D_N 250 PVC

prices on application



Max. Operating Temp. : 50 °C for PVC
70 °C for PPs

Connection: Standard (with socket (M) and bird screen (VSG))

Special Design: disassembled for maintenance and cleaning (with clamp closure)
other materials available upon request
connection smooth (G) / flange (F) upon request

Dimensions			Weight		PPs	PE	PVC	PPsX	PEX	removable Clamp Closure
D _N mm	D _a mm	H mm	PPs kg	PVC kg	EUR	EUR	EUR	EUR	EUR	Aufpreis / EUR
75	150	162	0.2	0.3						
90	180	188	0.3	0.4						
110	220	245	0.5	0.6						
125	250	271	0.6	0.9						
140	280	297	0.8	1.1						
160	320	341	1.1	1.5						
180	360	373	1.3	1.8						
200	400	410	1.6	2.2						
225	450	453	2.5	2.8						
250	500	492	3.1	3.5						
280	560	533	3.9	4.3						
315	630	638	5.2	7.2						
355	710	704	7.6	9.0						
400	800	782	10.0	12.0						
450	900	880	14.0	16.0						
500	1000	989	17.5	23.0						
560	1120	1100	23.0	28.0						
630	1260	1220	28.0	35.5						
710	1420	1385	37.0	50.0						
800	1600	1569	45.5	66.5						
900	1800	1755	66.0	85.0						
1000	2000	1920	87.0	103.0						
1120	2250	2200	105.0	120.0						
1250	2500	2450	122.0	138.0						

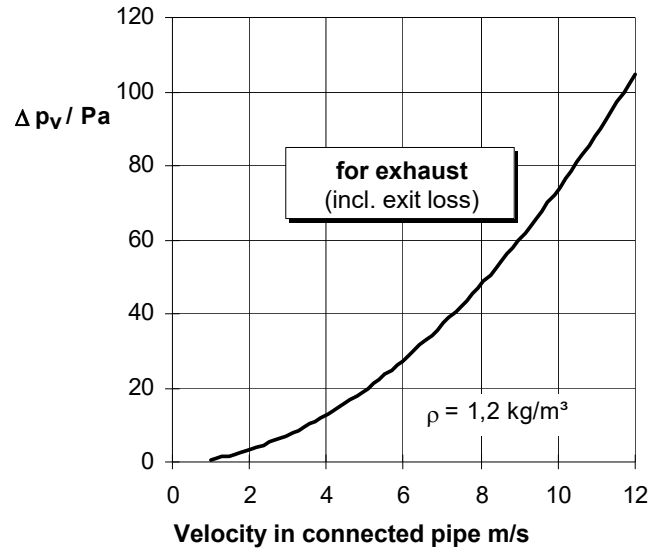
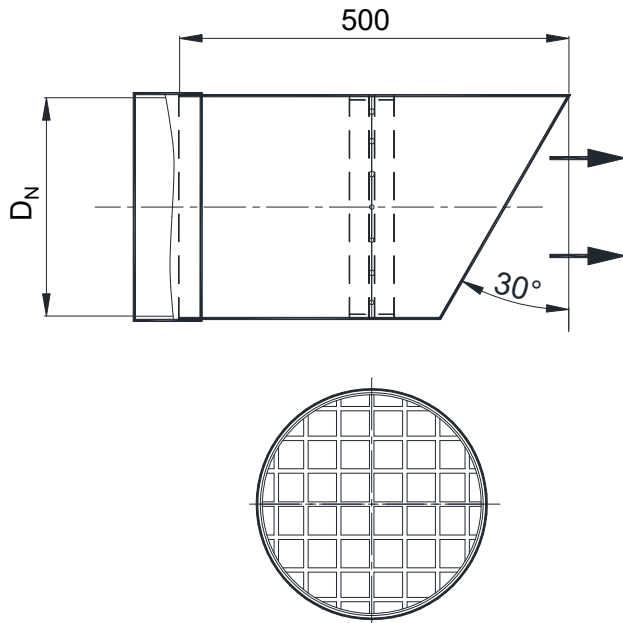
Designation Example:

Outside Air Hood with socket and VSG M D_N 250 PVC

Protective Pipe with socket (L = 500 mm)

Art. No. 53230 – page 1

prices on application



- Max. Operating Temp.:** 50 °C for PVC
70 °C for PPs
- Protection:** Plastic (PPs, PE, PVC, PPsX, PVDF), mesh width 20 mm
- Connection:** welded with socket
- Pressure Loss:** for exhaust see diagram (including exit loss)
- Special Design:** other materials an special sizes available upon request

Dimensions D _N mm	PPs EUR	PE EUR	PVC EUR	PVDF EUR	PPsX EUR
75					
90					
110					
125					
140					
160					
180					
200					
225					
250					
280					
315					
355					
400					
450					
500					
560					
630					
710					
800					

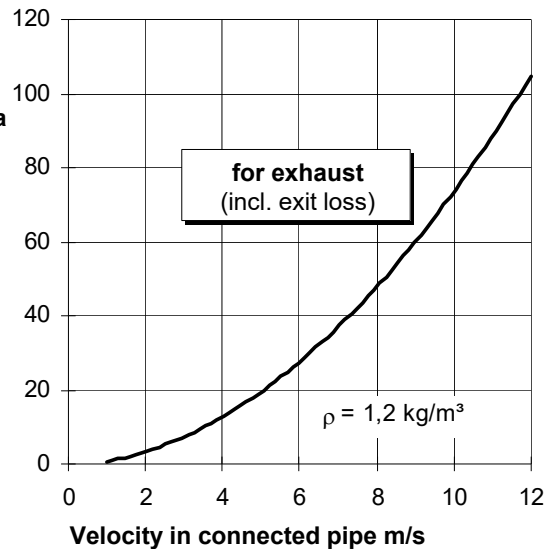
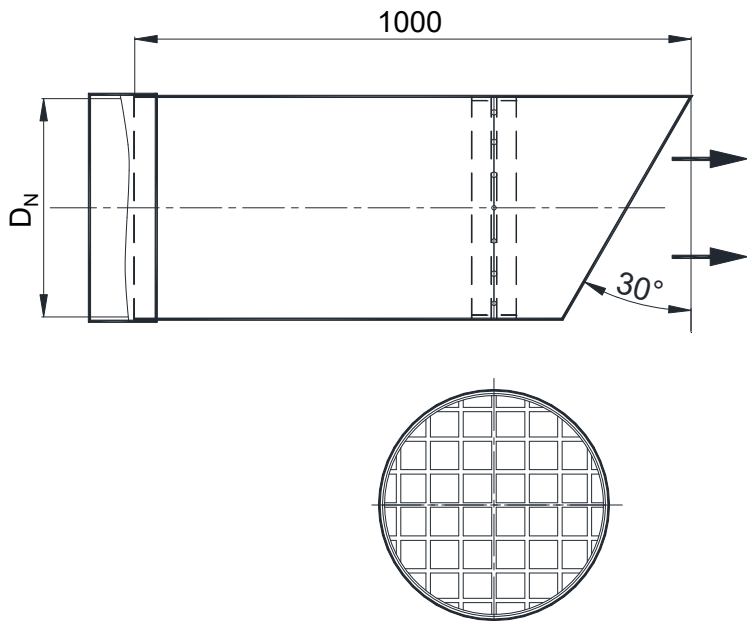
Designation Example:

Protective Pipe M D_N 250 x 500 lg. PVC

Protective Pipe with socket (L = 1000 mm)

Art. No. 53230 – page 2

prices on application



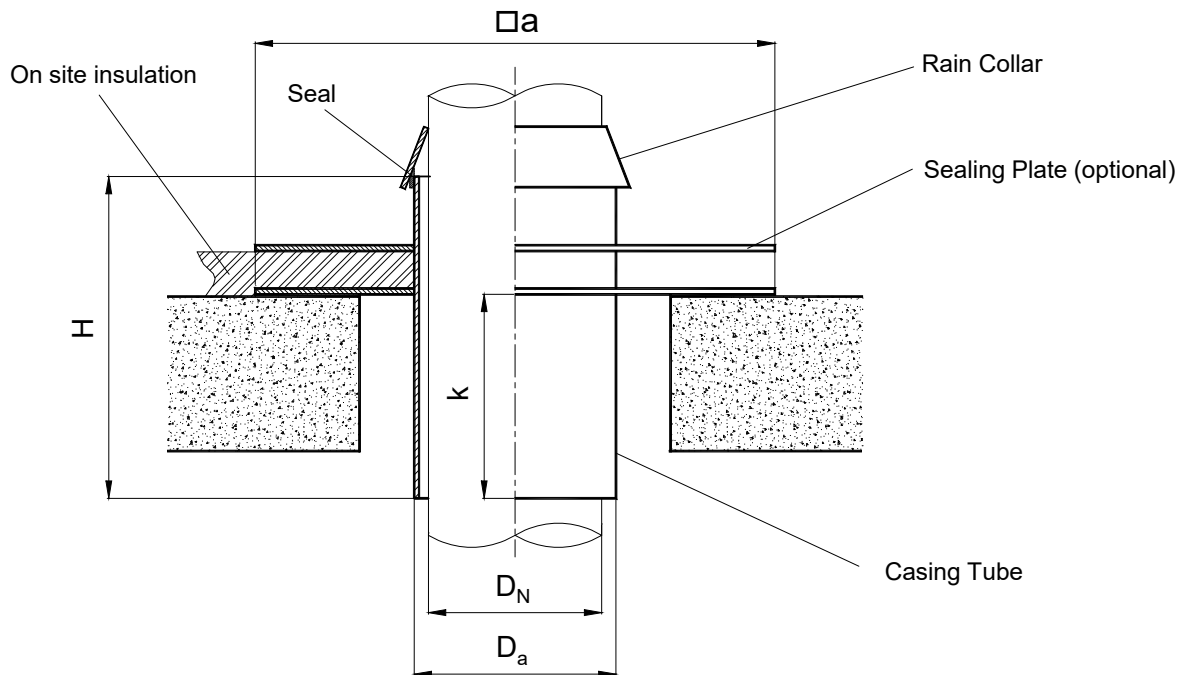
- Max. Operating Temp.:** 50 °C for PVC
70 °C for PPs
- Protection:** Plastic (PPs, PE, PVC, PPsX, PVDF), mesh width 20 mm
- Connection:** welded with socket
- Pressure Loss:** for exhaust see diagram (including exit loss)
- Special Design:** other materials and special sizes available upon request

Dimensions	PPs	PE	PVC	PVDF	PPsX
D _N mm	EUR	EUR	EUR	EUR	EUR
75					
90					
110					
125					
140					
160					
180					
200					
225					
250					
280					
315					
355					
400					
450					
500					
560					
630					
710					
800					

Designation Example:

Protective Pipe M D_N 250 x 1000 lg. PVC

prices on application



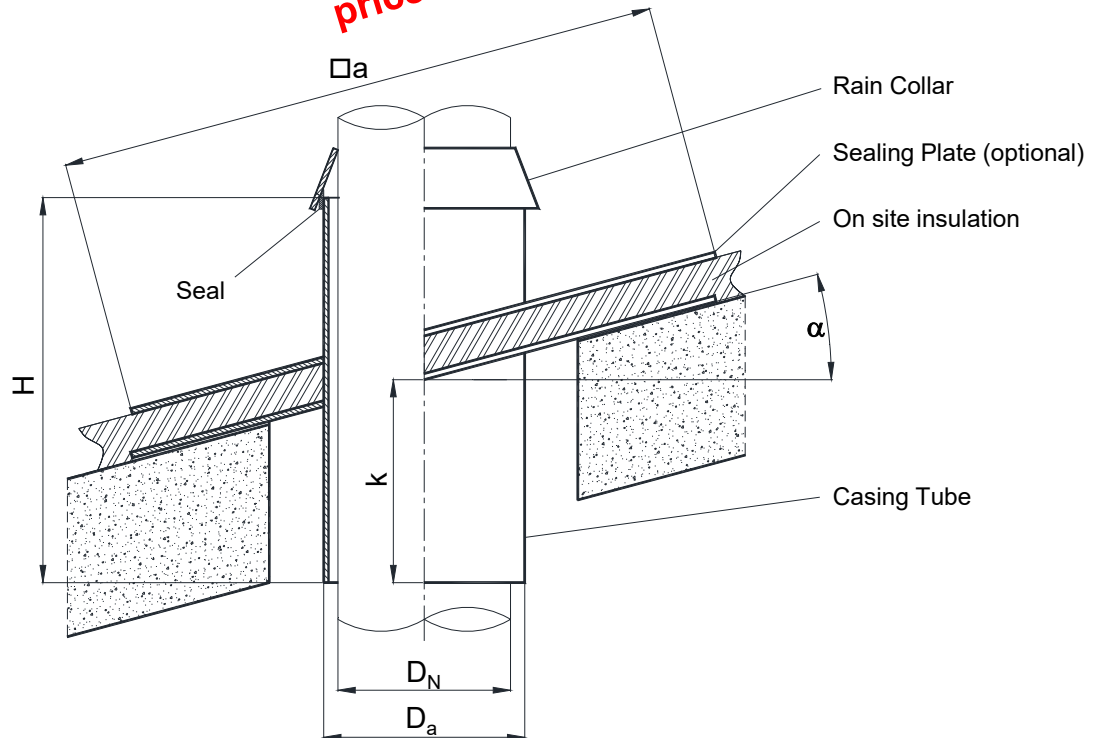
- Max. Operating Temp.:** 50 °C for PVC
70 °C for PPs
- Scope of Delivery:** Casing with seal, base plate welded on (Specify measure k when ordering).
Rain collar loose
- Installation:** The mounting of the base plate is done according to structural conditions, taking care to seal carefully. After assembly the rain collar is welded to the inner tube.
- Special Design:** optional with additional sealing plate
Versions with different sizes as well as other materials available upon request

DN mm	Dimensions		PPs EUR	PE EUR	PP EUR	PVC EUR	PVDF EUR	PPsX EUR	surcharge Sealing plate EUR
	Da mm	a mm							
75	90	400							
90	110	400							
110	140	500							
125	160	500							
140	160	500							
160	180	500							
180	200	600							
200	225	600							
225	250	600							
250	280	600							
280	315	600							
315	355	800							
355	400	800							
400	450	800							
450	500	800							
500	560	1000							
560	630	1000							
630	710	1000							
710	800	1200							
800	900	1200							
900	1000	1300							
1000	1100	1300							
1120	1250	1450							
1250	1400	1600							

Designation Example:

Roof Outlet straight D_N 250 k=500 PVC

prices on application



- Design:** version for pitched roof (please specify in your order: **specify angle of roof pitch and measure k** referring to the central axis)
- Max. Operating Temp.:** 50 °C for PVC
70 °C for PPs
- Scope of Delivery:** Casing with seal, base plate welded on (Specify measure **k** when ordering).
Rain collar loose
- Installation:** The mounting of the base plate is done according to structural conditions, taking care to seal carefully. After assembly the rain collar is welded to the inner tube.
- Special Design:** optional with additional sealing plate
Versions with different sizes as well as other materials available upon request

DN mm	Dimensions		PPs	PE	PP	PVC	PVDF	PPsX	surcharge
	Da mm	a mm	EUR	EUR	EUR	EUR	EUR	EUR	Sealing plate EUR
75	90	500							
90	110	500							
110	140	600							
125	160	600							
140	160	600							
160	180	600							
180	200	700							
200	225	700							
225	250	700							
250	280	700							
280	315	700							
315	355	1000							
355	400	1000							
400	450	1000							
450	500	1000							
500	560	1200							
560	630	1200							
630	710	1200							
710	800	1400							
800	900	1600							
900	1000	1700							
1000	1100	1900							
1120	1250								
1250	1400								

Designation Example:

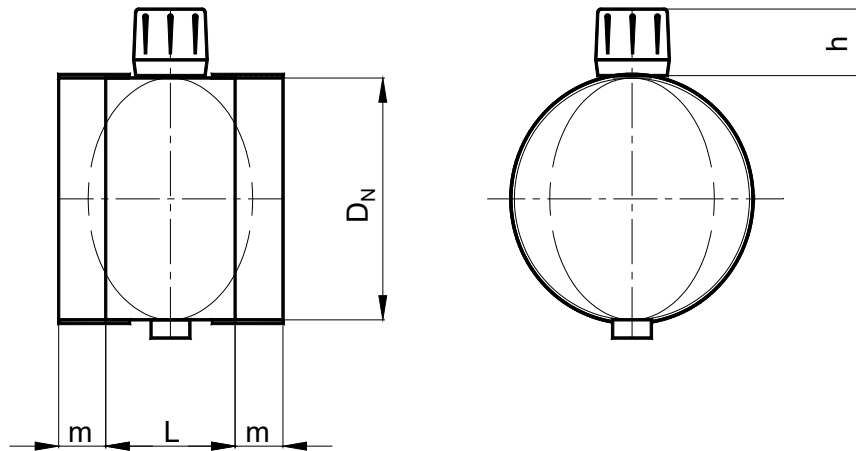
Roof Outlet pitched 20° D_N 250 k=500 PVC

Damper Flap, manually adjustable

Art. No. 53300

prices on application

MIETZSCH



- Operating Conditions:** max. Flow velocity = 10 m / s
 perm. continuous load (permissible pressure difference) with closed flap:
 PVC: 1600 Pa at 30 °C.
 PPS: 1000 Pa at 30 °C.
- Flap Settings:** up to DN = 400 mm in 15° - Levels (infinitely variable upon request)
 larger than DN = 400 mm infinitely variable
- Connections:** default both sides with welding socket (with flange upon request)
- Special Design:** Other materials and versions for higher flow velocity or constant load available upon request.

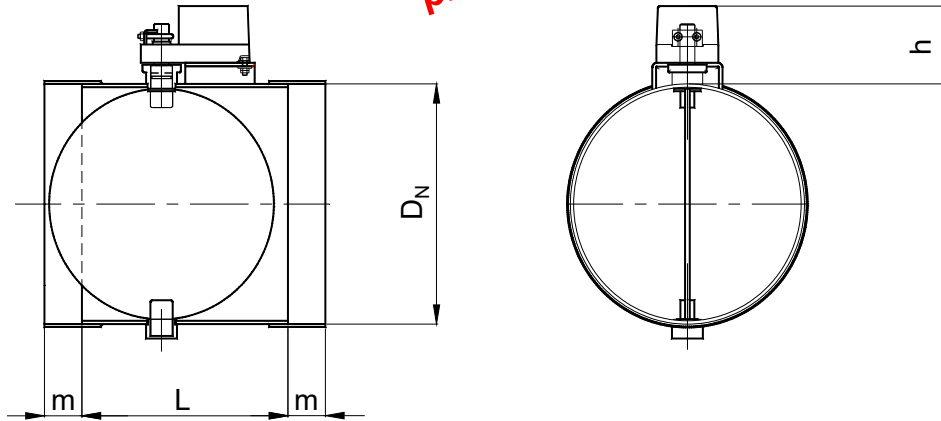
D _N mm	Dimensions			PPs EUR	PE EUR	PP EUR	PVC EUR	PVDF EUR	PPsX EUR
	L mm	m mm	h _{max} mm						
50	60	35	70						
63	60	35	70						
75	60	35	70						
90	60	35	70						
110	75	40	70						
125	70	40	70						
140	70	40	70						
160	70	40	70						
180	70	50	70						
200	70	50	70						
225	70	50	70						
250	70	50	70						
280	70	50	70						
315	70	50	70						
355	75	50	70						
400	80	50	70						
450	450	50	70						
500	500	50	70						
560	560	50	70						
630	630	50	70						
710	710	50	70						
800	800	50	70						

The dimensions are subject to technical changes and are not bound before written confirmation.

Designation Example:

Damper Flaps. manually adjustable D_N 250 PVC

prices on application



- Operating Conditions:** max. Flow velocity = 10 m / s
 perm. continuous load (permissible pressure difference) with closed flap:
PVC: 1600 Pa at 30 ° C **PPs:** 1000 Pa at 30 ° C.
- Materials:** either PVC or PPs (materials such as PE or conductive plastics upon request)
- Connections:** default both sides with welding socket (with flange upon request)
- Actuators:** Standard actuators are used in the following models:
 adjustable mechanical end limits
 Ambient temperature -30 ... + 50 ° C Degree of protection IP 54
- BELIMO-Actuators Runtime 150s, either AC/DC 24V or AC 230V**
AUF/ZU Standard drive for open / close or 3-point control
AUF/ZU-S with integrated auxiliary switch (changeover)
SR continuously adjustable with position feedback DC 2 ... 10 V
- BELIMO-Actuators Runtime 2.5s, 4s or 7s, AC/DC 24V**
AUF/ZU faster drive for open / close
AUF/ZU-S with attachable auxiliary switch (changeover optional)
- Upon request:
JOVENTA-Actuators Runtime 8s or 16s, either AC/DC 24V or AC 230V
AUF/ZU-SA faster drive for open / close or 3-point control
AUF/ZU-SA-S with integrated auxiliary switch (changeover)

Without Actuator with console. prepared for various actuators (specify type)

Special Design: other actuators. versions for other operating conditions
 explosion-proof flaps according to directive EN 2014/34/EU (ATEX) upon request

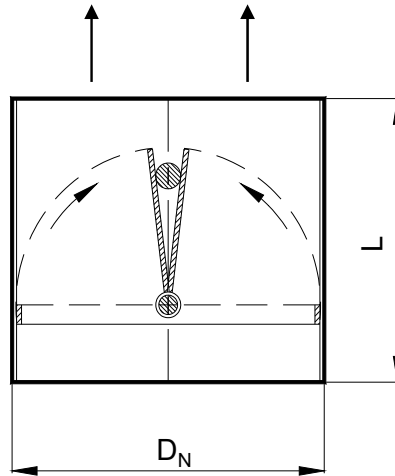
Dimensions				AUF/ZU	AUF/ZU-S	SR		Drive	AUF/ZU-SA		without actuator				
PPs / PE / PP				Standard	with aux. switch	constantly controllable			High-speed		(with console)				
D _N	L	m	h _{max}	24V or 230V	24V oder 230V	24V	230V		24V	Drive	PPs PP/PE	PVC	PVDF	PPsX	
mm	mm	mm	mm	EUR	EUR	EUR	EUR	EUR	Belimo	EUR	EUR	EUR	EUR		
75	250	30	95						LM..A	LMQ..A Runtime 2.5s					
90	250	30	95												
110	250	30	95												
125	280	30	95												
140	280	30	95												
160	280	30	95												
180	280	30	95												
200	280	30	95												
225	290	30	95												
250	290	30	95												
280	290	30	95						NM..A	NMQ..A Runtime 4s					
315	350	30	95												
355	350	30	95												
400	350	30	95												
450	450	50	95												
500	500	50	95												
560	560	50	95						SMQ..A Runtime 7s						
630	630	50	110												
710	710	50	110												
800	800	50	110												
										Aux. switch S1					
										Aux. switch S2					

Designation Example: Damper Flap with Actuator AUF/ZU-S 230V D_N 250 PVC

Backdraft Flap, vertical (V)

Art. No. 53310

prices on application



- Operating Conditions:** only for vertical installation (type V)
 max. Flow Velocity = 16 m/s
 max. Operating Temp.: PVC : 50 °C
 PPs : 70 °C
- Connections:** smooth on both sides (GG) or both sides with sockets (MM)
- Loss Coefficient:** $\zeta = 0.3$
- Special Design:** other materials available upon request

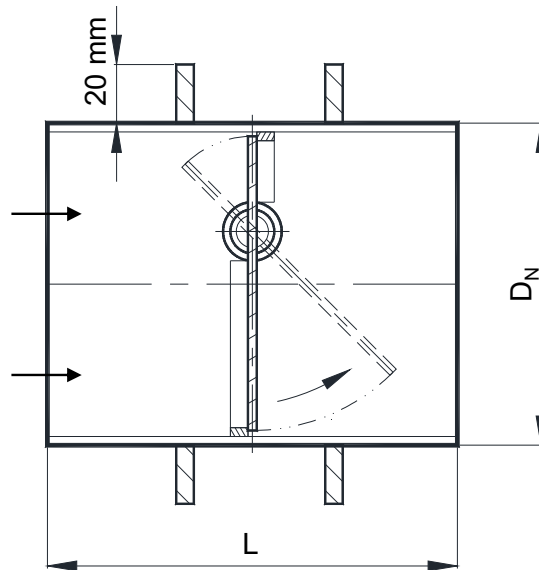
Dimensions		PPs	PE	PP	PVC	PVDF	PPsX
D _N mm	L mm	EUR	EUR	EUR	EUR	EUR	EUR
75	120						
90	130						
110	140						
125	150						
140	160						
160	160						
180	170						
200	190						
225	200						
250	220						
280	250						
315	270						
355	300						
400	330						
450	360						
500	390						
560	430						
630	450						

Designation Example: Backdraft Flap V-GG D_N 250 PVC

Backdraft Flap, horizontal (H)

Art. No. 53330

prices on application



- Operating Conditions:** only for horizontal installation (type H)
 max. Flow Velocity = 16 m/s
 max. Operating Temp.: PVC : 50 °C
 PPs : 70 °C
- Connections:** smooth on both sides (GG) or both sides with sockets (MM)
- Loss Coefficient:** $\zeta = 0.3$
- Special Design:** other materials available upon request

Dimensions		PPs	PE	PP	PVC	PVDF	PPsX
D _N mm	L mm	EUR	EUR	EUR	EUR	EUR	EUR
75	120						
90	130						
110	140						
125	150						
140	160						
160	160						
180	170						
200	190						
225	200						
250	220						
280	250						
315	270						
355	300						
400	330						
450	360						
500	390						
560	430						
630	450						

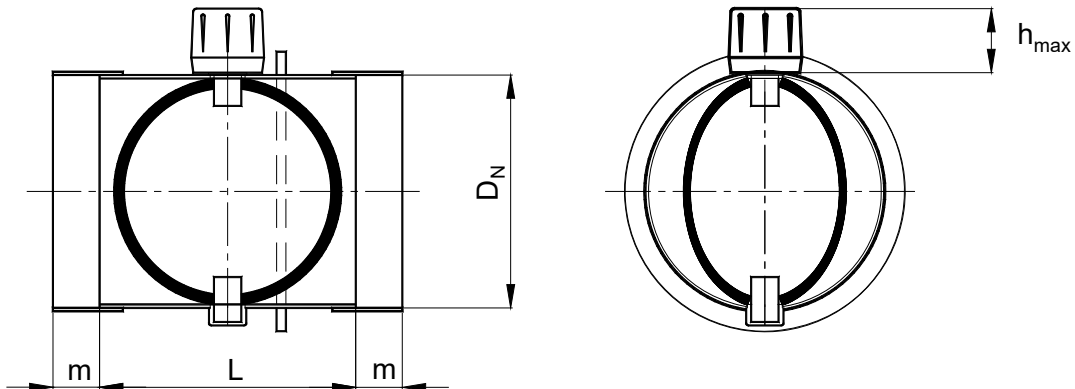
Designation Example: Backdraft Flap H-GG D_N 250 PVC

Butterfly Flap, manually adjustable

Art. No. 53320

prices on application

MIETZSCH



- Amount of Leakage:** airtight to DIN EN 1751
Leakage flow less than 10 m³/h / m² at 100 Pa pressure difference
- Operating Conditions:** Max. Flow Velocity = 10 m/s
perm. continuous load (permissible pressure difference) with closed flap:
PVC : 1600 Pa at 30 °C
PPs : 1000 Pa at 30 °C
- Flap Settings:** up to D_N=400 mm in 15° - levels (infinitely variable upon request)
larger than D_N=400 mm infinitely variable
- Connections:** default both sides with welding socket (with flange upon request)
- Special Design:** Other materials and versions for higher flow velocity or constant load available upon request.

D _N mm	Dimensions			PPs EUR	PE EUR	PP EUR	PVC EUR	PVDF EUR	PPsX EUR
	L mm	m mm	h _{max} mm						
75	120	30	70						
90	120	30	70						
110	140	30	70						
125	140	30	70						
140	160	30	70						
160	180	30	70						
180	200	30	70						
200	220	30	70						
225	240	30	70						
250	270	30	70						
280	300	30	70						
315	340	30	70						
355	380	30	70						
400	420	30	70						
450	450	50	70						
500	500	50	70						
560	560	50	70						
630	630	50	70						
710	710	50	70						
800	800	50	70						

Designation Example:

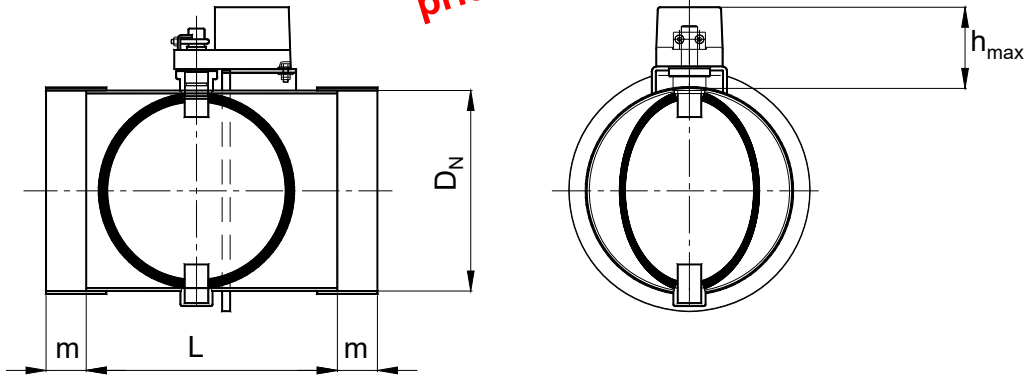
Butterfly Flap, manually adjustable D_N 250 PVC

Butterfly Flap with Actuator

Art. No. 53321

prices on application

MIETZSCH



- Amount of Leakage:** airtight to DIN EN 1751
Leakage flow less than 10 m³/h / m² at 100 Pa pressure difference
- Operating Conditions:** Max. Flow Velocity= 10 m/s
perm. continuous load (permissible pressure difference) with closed flap:
PVC : 1600 Pa at 30 °C **PPs** : 1000 Pa at 30 °C
- Materials:** either PVC or PPs (Materials such as PE or conductive plastics upon request)
- Connections:** default both sides with welding socket (with flange on request)
- Actuators:** Standard actuators are used in the following models:
adjustable mechanical end limits
Ambient temperature -30 ... + 50 ° C Degree of protection IP 54
- BELIMO-Actuators Runtime 150s, either AC/DC 24V or AC 230V**
AUF/ZU Standard drive for open / close or 3-point control
AUF/ZU-S with integrated auxiliary switch (changeover)
SR continuously adjustable with position feedback DC 2 ... 10 V
- BELIMO-Actuators Runtime 2.5s, 4s or 7s, AC/DC 24V**
AUF/ZU faster drive for open / close
AUF/ZU-S with attachable auxiliary switch (changeover optional)
- Upon request:
JOVENTA-Actuators Runtime 8s or 16s, either AC/DC 24V or AC 230V
AUF/ZU-SA faster drive for open / close or 3-point control
AUF/ZU-SA-S with integrated auxiliary switch (changeover)
- Without Actuator** with console. prepared for various actuators (specify type)
- Special Design:** other actuators. versions for other operating conditions
explosion-proof flaps according to directive EN 1014/34/EU (**ATEX**) upon request

Dimensions				AUF/ZU	AUF/ZU-S	SR		Drive	AUF/ZU-SA		without actuator			
D _N mm	PPs / PE / PP			Standard	with aux. switch	constantly controllable			Belimo	High-speed		(with console)		
	L mm	m mm	h _{max} mm	24V or 230V EUR	24V oder 230V EUR	24V EUR	230V EUR	24V EUR		Drive Belimo	PPs PP/PE EUR	PVC EUR	PVDF EUR	PPsX EUR
75	250	30	95											
90	250	30	95											
110	250	30	95											
125	280	30	95											
140	280	30	95											
160	280	30	95											
180	280	30	95											
200	280	30	95											
225	290	30	95											
250	290	30	95											
280	290	30	95											
315	350	30	95											
355	350	30	95											
400	350	30	95											
450	450	50	95											
500	500	50	95											
560	560	50	95											
630	630	50	110											
710	710	50	110											
800	800	50	110											

Aux. switch S1
Aux. switch S2

Designation Example: Butterfly Flap with Actuator AUF/ZU-S 230V D_N 250 PVC