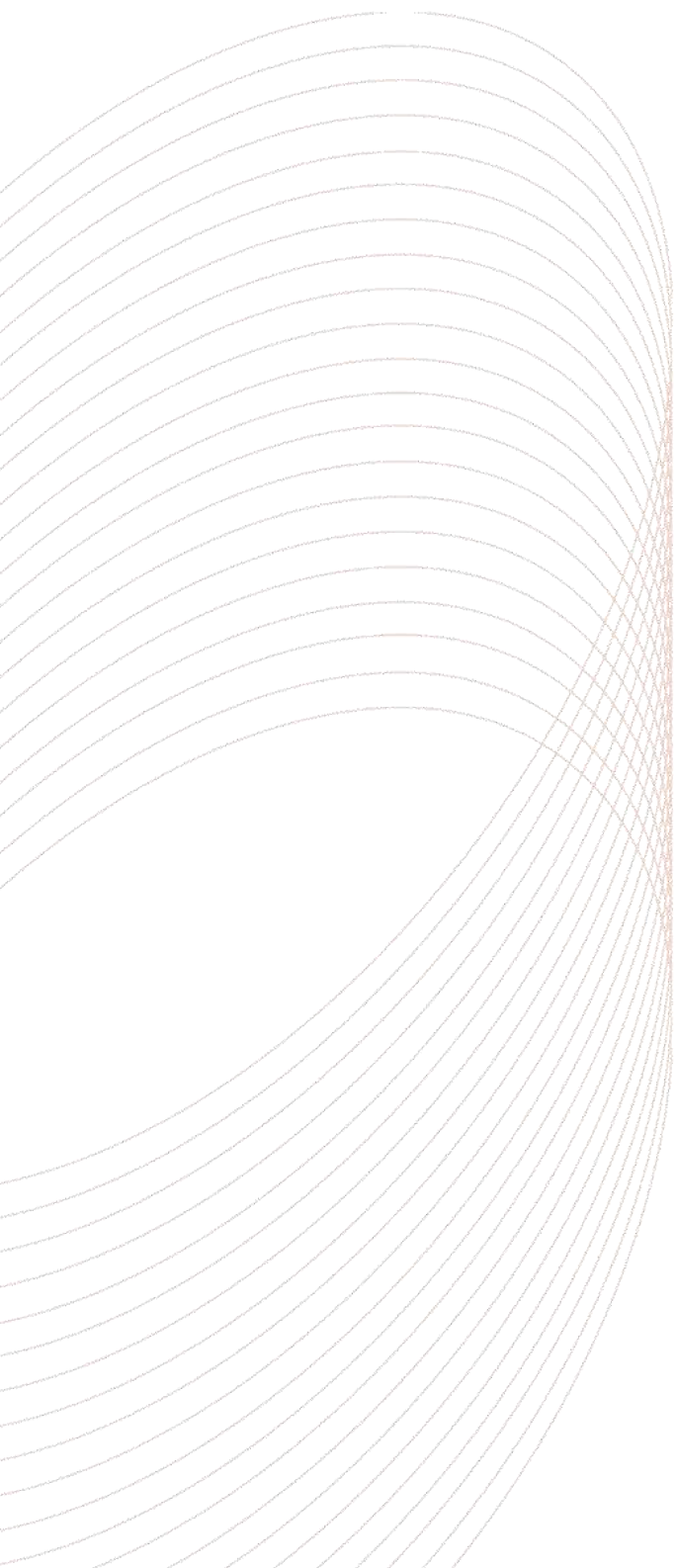


AKUplastics

Your supplier

Ventilation molded parts



PRODUCTS

OUR PROFILE

MATERIALS

VENTILATION FITTINGS

DELIVERY OVERVIEW

Our profile

Years of experience in the distribution, processing, and handling of thermoplastic semi-finished products.

This has made us a significant Austrian provider of comprehensive solutions for the entire processing industry.

From our headquarters in Vienna, we supply and support the domestic market as well as our customers in Western Europe, Hungary, and Southeast Europe in cooperation with our partners.

Our two partner companies with warehouses in the Czech Republic and Slovakia are responsible for their respective markets, as well as other Eastern European countries.

Our products are used in the following areas:

- Chemical Industry
- Tank and Plant Construction
- Semiconductor Industry
- Apparatus Engineering
- Electrical and Electronics Industry
- Mechanical Engineering
- Storage, Lifting, and Conveyor Technology
- Textile Machinery Manufacturing
- Automotive and Vehicle Construction
- Food Industry
- Visual Communication (VisCom) Applications
- Medical Technology
- Nuclear Technology
- ... and many other industries.

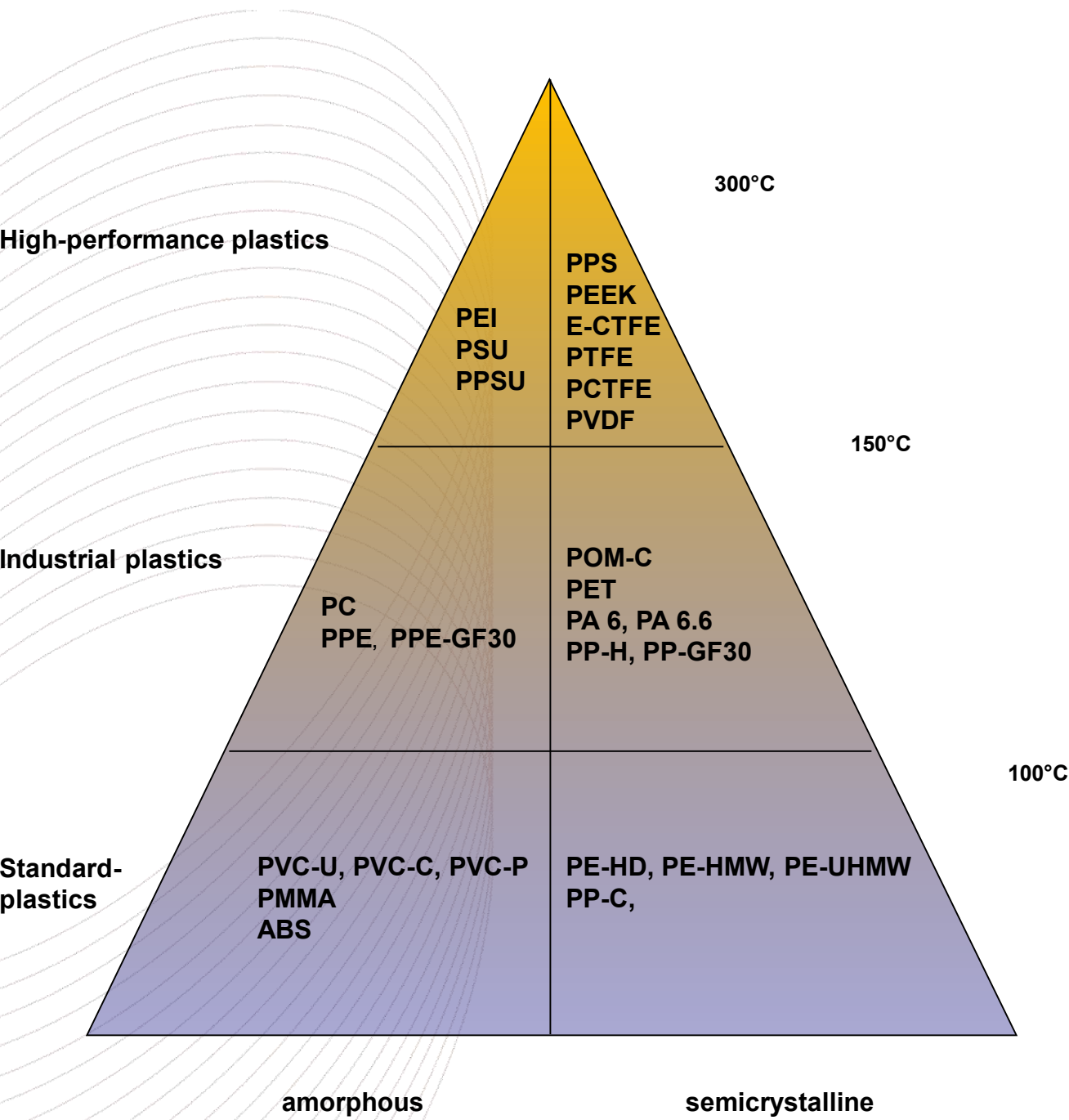
A balanced product range, which includes semi-finished products such as plates, solid and hollow rods, hexagonal rods, flat rods, standard profiles, welding wires, and transparent pipes, as well as machined finished parts, ventilation components, and processing machines for welding and bending technology, clearly underscores this.

Through continuous inspection and expansion of our supplier pool, we are able to offer the best quality at fair prices.

Ongoing market analysis and consideration of ecological as well as societal changes create the demand for new solutions.

We also meet such needs with semi-finished products based on biopolymers and recyclates.

Materials



This overview provides a selection of the materials available on the market and obtainable from us, and it does not claim to be exhaustive.



Ventilation molded parts

Ventilation molded parts made of plastics are needed wherever plastic ventilation ducts are laid due to corrosion resistance or abrasion resistance.

As a specialized company, we offer these ventilation molded parts made of various chemically highly resistant and abrasion-resistant plastics such as PVC, PPs, PP, PE, and PVDF.

Patented manufacturing processes guarantee excellent fit and dimensional accuracy. In our specialized catalog, you will find all the molded parts needed for steering, distribution, and regulation of airflows up to PN 2.5.

Naturally, pipe silencers and volume flow controllers are also available in our extensive product range.

Molded parts with dimensions in the range of pipe diameters Ø50 to Ø600 mm are available at short notice.

Larger diameters can be custom-made by segment welding upon request. All molded parts are supplied with sockets as standard but can optionally be equipped with flanges.

The airtight connection from pipe to molded part with socket depends on the material. Typically, this is done by bonding with solvent adhesive, welding with hot air and auxiliary wire, or with special adhesive/sealing tapes.

Ventilation molded parts



TECHNICAL LIST

Product x Material x Dimension | Cross Table, Overview Matrix & Detail List



LEGAL NOTICE & DISCLAIMER

Please read this notice carefully before using this overview.

No Liability for Information

All information contained in this technical list regarding dimensions, materials, dimensional ranges and technical properties serves exclusively as a non-binding overview and orientation guide. AKU KG assumes no liability for the accuracy, completeness or currency of the information provided. Errors, printing mistakes and technical changes are expressly reserved.

Enquiry & Order Confirmation Required

All listed products must be explicitly enquired about. No offer or delivery commitment can be derived from this overview. Every delivery requires a written order confirmation from AKU KG. Delivery times vary by product — binding delivery dates are established exclusively within the respective order confirmation.

Customer Responsibility

The selection of the appropriate material, the correct dimension and the suitability of the product for the intended application are solely the responsibility of the customer. The customer is obliged to independently verify technical suitability based on project-specific requirements. AKU KG is not liable for damages resulting from incorrect material selection or dimensioning.

Right to Modify

AKU KG reserves the right to modify, discontinue or supplement products, materials, dimensions and technical specifications at any time and without prior notice. The current version of this list supersedes all previous editions.

Purpose of this Overview

This technical list serves exclusively as an initial reference and makes no claim to completeness. It does not replace expert planning, design or consultation by qualified personnel. For project-related questions and binding information, please contact our sales team directly.

Standards & Approvals

The suitability regarding applicable standards, approvals and regulatory requirements (e.g. DVGW, CE, building authority requirements) must be verified by the customer independently. AKU KG makes no representations regarding normative conformity for specific applications.

TECHNICAL LIST

Product x Material x Dimension | Cross Table, Overview Matrix & Detail List



CROSS TABLE – Product x Material

Product x Material x Dimension

■ = Material available blank = not available

Product Type	PVC-U	PVC-U white	PPs	PP-H	PE-H D	PP-EL -s	PVDF	TPE	Dim.	Min	Max
Pipe Elbow											
Elbow 15°	■	■	■	■	■	■	■		Ø mm	50	1250
Elbow 30°	■	■	■	■	■	■	■		Ø mm	50	1250
Elbow 45°	■	■	■	■	■	■	■		Ø mm	50	1250
Elbow 60°	■	■	■	■	■	■	■		Ø mm	50	1250
Elbow 75°	■	■	■	■	■	■	■		Ø mm	50	1250
Elbow 90°	■	■	■	■	■	■	■		Ø mm	50	1250
Wye Tee											
Wye Tee 45°	■	■	■	■	■	■	■		Ø mm	75	1250
Wye Tee 90°	■	■	■	■	■	■	■		Ø mm	75	1250
Tee											
Tee 45°	■	■	■	■	■	■	■		Ø mm	50	1250
Reducing Tee 45°	■	■	■	■	■	■	■		Ø mm	63	1250
Tee 90°	■	■	■	■	■	■	■		Ø mm	50	1250
Reducing Tee 90°	■	■	■	■	■	■	■		Ø mm	63	1250
Tee with Inspection Opening	■	■	■	■	■	■	■		Ø mm	110	1250
Connector											

Product Type	PVC-U	PVC-U white	PPs	PP-H	PE-H D	PP-EL -s	PVDF	TPE	Dim.		
Double Socket	■	■	■	■	■	■	■		Ø mm		
Reducer											
Reducer Asymmetric	■	■	■	■	■	■	■		Ø mm	50	1200
Reducer Symmetric	■	■	■	■	■	■	■		Ø mm	50	1200
Pipes from Sheets											
Pipe from Sheet s=10mm	■	■	■	■	■	■	■		Ø mm	1000	1250
Pipe from Sheet s=12mm	■	■	■	■	■	■	■		Ø mm	1200	1250
Pipe from Sheet s=5mm	■	■	■	■	■	■	■		Ø mm	450	600
Pipe from Sheet s=6mm	■	■	■	■	■	■	■		Ø mm	450	710
Pipe from Sheet s=8mm	■	■	■	■	■	■	■		Ø mm	700	1000
Flange											
Blind Flange	■	■	■	■	■	■	■		Ø mm	50	1250
Flange	■	■	■	■	■	■	■		Ø mm	50	1250
Flange with Socket	■	■	■	■	■	■	■		Ø mm	50	1250
Throttle Valve											
Throttle Valve Rotary Knob Stepless Flange	■	■	■	■	■	■	■		Ø mm	75	400
Throttle Valve Rotary Knob Stepless Socket	■	■	■	■	■	■	■		Ø mm	50	400
Throttle Valve Rotary Knob Flange	■	■	■	■	■	■	■		Ø mm	75	400
Throttle Valve Rotary Knob Socket	■	■	■	■	■	■	■		Ø mm	50	400
Throttle Valve Flange	■	■	■	■	■	■	■		Ø mm	75	1250
Throttle Valve Socket	■	■	■	■	■	■	■		Ø mm	50	1250
Shut-off Valve											
Shut-off Valve Rotary Knob Stepless Flange	■	■	■	■	■	■	■		Ø mm	75	400

Product Type	PVC-U	PVC-U white	PPs	PP-H	PE-H D	PP-EL -s	PVDF	TPE	Dim.		
Shut-off Valve Rotary Knob Stepless Socket	■	■	■	■	■	■	■		Ø mm		
Shut-off Valve Flange	■	■	■	■	■	■	■		Ø mm	450	1250
Shut-off Valve Socket	■	■	■	■	■	■	■		Ø mm	50	1250
Control Valve											
Control Valve Flange	■	■	■	■	■	■	■		Ø mm	75	1250
Control Valve Socket	■	■	■	■	■	■	■		Ø mm	50	1250
Shut-off/Control Valve											
Shut-off/Control Valve Flange	■	■	■	■	■	■	■		Ø mm	75	1250
Shut-off/Control Valve Socket	■	■	■	■	■	■	■		Ø mm	50	1250
Check Valve											
Check Valve Type 1	■	■	■	■	■	■	■		Ø mm	90	1250
Check Valve Type 2	■	■	■	■	■	■	■		Ø mm	110	630
Check Valve Type 3	■	■	■	■	■	■	■		Ø mm	110	630
Louvre Damper											
Louvre Damper	■	■							Ø mm	110	600
Sleeve Gasket											
4-way Sleeve Gasket	■								Ø mm	140	1250
4-way Sleeve Gasket (TPE)								■	Ø mm	110	1250
4-way Sleeve with Flange	■	■	■	■	■	■	■		Ø mm	140	1250
4-way Sleeve with Flange (TPE)	■	■	■	■	■	■	■		Ø mm	75	1250
4-way Sleeve with Socket	■	■	■	■	■	■	■		Ø mm	140	1250
4-way Sleeve with Socket (TPE)	■	■	■	■	■	■	■		Ø mm	75	1250
6-way Sleeve Gasket	■							■	Ø mm	110	1250

Product Type	PVC-U	PVC-U white	PPs	PP-H	PE-H D	PP-EL -s	PVDF	TPE	Dim.		
6-way Sleeve with Flange	■	■	■	■	■	■	■		Ø mm		
6-way Sleeve with Socket	■	■	■	■	■	■	■		Ø mm	75	1250
Pipe Silencer											
Pipe Silencer L=1000 Flange	■	■	■	■	■	■	■		Ø mm	75	1250
Pipe Silencer L=1000 Socket	■	■	■	■	■	■	■		Ø mm	75	1250
Pipe Silencer L=1250 Flange	■	■	■	■	■	■	■		Ø mm	75	1250
Pipe Silencer L=1250 Socket	■	■	■	■	■	■	■		Ø mm	75	1250
Pipe Silencer L=1500 Flange	■	■	■	■	■	■	■		Ø mm	75	1250
Pipe Silencer L=1500 Socket	■	■	■	■	■	■	■		Ø mm	75	1250
Pipe Silencer L=1750 Flange	■	■	■	■	■	■	■		Ø mm	75	1250
Pipe Silencer L=1750 Socket	■	■	■	■	■	■	■		Ø mm	75	1250
Pipe Silencer L=2000 Flange	■	■	■	■	■	■	■		Ø mm	75	1250
Pipe Silencer L=2000 Socket	■	■	■	■	■	■	■		Ø mm	75	1250
Pipe Silencer L=500 Flange	■	■	■	■	■	■	■		Ø mm	75	600
Pipe Silencer L=500 Socket	■	■	■	■	■	■	■		Ø mm	75	600
Pipe Silencer L=750 Flange	■	■	■	■	■	■	■		Ø mm	75	600
Pipe Silencer L=750 Socket	■	■	■	■	■	■	■		Ø mm	75	600
Deflector Hood											
Deflector Hood Flange	■	■	■	■	■	■	■		Ø mm	110	1250
Deflector Hood Socket	■	■	■	■	■	■	■		Ø mm	110	1250
Rain Hood											
Rain Hood Flange	■	■	■	■	■	■	■		Ø mm	75	1250
Rain Hood Socket	■	■	■	■	■	■	■		Ø mm	75	1250

Product Type	PVC-U	PVC-U white	PPs	PP-H	PE-H D	PP-EL -s	PVDF	TPE	Dim.		
Roof Fitting											
Roof Fitting 0°	■	■	■	■	■	■	■		Ø mm	110	1250
Roof Fitting 1–22°	■	■	■	■	■	■	■		Ø mm	75	1250
Roof Fitting 23–45°	■	■	■	■	■	■	■		Ø mm	110	1250
Saddle Branch											
Saddle Branch 45°	■	■	■	■	■	■	■		Ø mm	50	1250
Saddle Branch 90°	■	■	■	■	■	■	■		Ø mm	50	1250
Accessories											
End Cap	■	■	■	■	■	■	■		Ø mm	50	1250
Inspection Opening	■	■	■	■	■	■	■		Ø mm	110	1250
Bird Guard	■	■	■	■	■	■	■		Ø mm	50	1250
Wall Penetration	■	■	■	■	■	■	■		Ø mm	110	1250
Spiral Hose											
Spiral Hose	■	■							Ø mm	50	500
Slot Slide											
Slot Slide Rectangular	■	■	■	■	■				B x H	300 x 100	600 x 250
Slot Slide Round	■	■	■	■	■				Ø mm	110	400
Grille / Frame											
Mounting Frame	■	■	■	■	■	■	■		B x H	300 x 100	600 x 250
Supply/Exhaust Grille	■								B x H	300 x 100	600 x 250

TECHNICAL LIST

Product x Material x Dimension | Cross Table, Overview Matrix & Detail List



OVERVIEW MATRIX – All Products by Type, Material & Dimension

All categories summarised

Category	Product Type / Variants	Materials	Dim. Type	Min Ø / Dim.	Max Ø / Dim.
Pipe Elbow	Elbow 15° Elbow 30° Elbow 45° Elbow 60° Elbow 75° Elbow 90°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Wye Tee	Wye Tee 45° Wye Tee 90°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Tee	Tee 45° Reducing Tee 45° Tee 90° Reducing Tee 90° Tee with Inspection Opening	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Connector	Double Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Reducer	Reducer Asymmetric Reducer Symmetric	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Pipes from Sheets	Pipe from Sheet s=10mm Pipe from Sheet s=12mm Pipe from Sheet s=5mm Pipe from Sheet s=6mm Pipe from Sheet s=8mm	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	450	1250
Flange	Blind Flange Flange Flange with Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Throttle Valve	Throttle Valve Rotary Knob Stepless Flange Throttle Valve Rotary Knob Stepless Socket Throttle Valve Rotary Knob Flange Throttle Valve Rotary Knob Socket Throttle Valve Flange Throttle Valve Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Shut-off Valve	Shut-off Valve Rotary Knob Stepless Flange Shut-off Valve Rotary Knob Stepless Socket Shut-off Valve Flange Shut-off Valve Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Control Valve	Control Valve Flange Control Valve Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Shut-off/Control Valve	Shut-off/Control Valve Flange Shut-off/Control Valve Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Check Valve	Check Valve Type 1 Check Valve Type 2 Check Valve Type 3	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Louvre Damper	Louvre Damper	PVC-U, PVC-U white	Ø [mm]	110	600
Sleeve Gasket	4-way Sleeve Gasket 4-way Sleeve Gasket (TPE) 4-way Sleeve with Flange 4-way Sleeve with Flange (TPE) 4-way Sleeve with Socket 4-way Sleeve with Socket (TPE) 6-way Sleeve Gasket 6-way Sleeve with Flange 6-way Sleeve with Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF, TPE	Ø [mm]	50	1250

Category	Product Type / Variants	Materials	Dim. Type	Min Ø / Dim.	Max Ø /
Pipe Silencer	Pipe Silencer L=1000 Flange Pipe Silencer L=1000 Socket Pipe Silencer L=1250 Flange Pipe Silencer L=1250 Socket Pipe Silencer L=1500 Flange Pipe Silencer L=1500 Socket Pipe Silencer L=1750 Flange Pipe Silencer L=1750 Socket Pipe Silencer L=2000 Flange Pipe Silencer L=2000 Socket Pipe Silencer L=500 Flange Pipe Silencer L=500 Socket Pipe Silencer L=750 Flange Pipe Silencer L=750 Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	
Deflector Hood	Deflector Hood Flange Deflector Hood Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Rain Hood	Rain Hood Flange Rain Hood Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Roof Fitting	Roof Fitting 0° Roof Fitting 1–22° Roof Fitting 23–45°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Saddle Branch	Saddle Branch 45° Saddle Branch 90°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Accessories	End Cap Inspection Opening Bird Guard Wall Penetration	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Spiral Hose	Spiral Hose	PVC-U, PVC-U white	Ø [mm]	50	500
Slot Slide	Slot Slide Rectangular Slot Slide Round	PVC-U, PVC-U white, PPs, PP-H, PE-HD	B x H [mm]	110	600
Grille / Frame	Mounting Frame	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	B x H [mm]	300 x 100	600 x 250

TECHNICAL LIST

Product x Material x Dimension | Cross Table, Overview Matrix & Detail List



DETAIL LIST – All Products Individually

Category	Product Type	Materials	Dim. Type	Min Ø / Dim.	Max Ø / Dim.
Pipe Elbow					
Pipe Elbow	Elbow 15°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Pipe Elbow	Elbow 30°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Pipe Elbow	Elbow 45°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Pipe Elbow	Elbow 60°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Pipe Elbow	Elbow 75°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Pipe Elbow	Elbow 90°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Wye Tee					
Wye Tee	Wye Tee 45°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Wye Tee	Wye Tee 90°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Tee					
Tee	Tee 45°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Tee	Reducing Tee 45°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	63	1250
Tee	Tee 90°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Tee	Reducing Tee 90°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	63	1250
Tee	Tee with Inspection Opening	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	110	1250
Connector					
Connector	Double Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Reducer					
Reducer	Reducer Asymmetric	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1200

Category	Product Type	Materials	Dim. Type	Min Ø / Dim.	Max Ø /
Reducer	Reducer Symmetric	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	
Pipes from Sheets					
Pipes from Sheets	Pipe from Sheet s=10mm	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	1000	1250
Pipes from Sheets	Pipe from Sheet s=12mm	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	1200	1250
Pipes from Sheets	Pipe from Sheet s=5mm	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	450	600
Pipes from Sheets	Pipe from Sheet s=6mm	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	450	710
Pipes from Sheets	Pipe from Sheet s=8mm	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	700	1000
Flange					
Flange	Blind Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Flange	Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Flange	Flange with Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Throttle Valve					
Throttle Valve	Throttle Valve Rotary Knob Stepless Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	400
Throttle Valve	Throttle Valve Rotary Knob Stepless Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	400
Throttle Valve	Throttle Valve Rotary Knob Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	400
Throttle Valve	Throttle Valve Rotary Knob Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	400
Throttle Valve	Throttle Valve Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Throttle Valve	Throttle Valve Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Shut-off Valve					
Shut-off Valve	Shut-off Valve Rotary Knob Stepless Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	400
Shut-off Valve	Shut-off Valve Rotary Knob Stepless Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	400
Shut-off Valve	Shut-off Valve Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	450	1250
Shut-off Valve	Shut-off Valve Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Control Valve					
Control Valve	Control Valve Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Control Valve	Control Valve Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Shut-off/Control Valve					

Category	Product Type	Materials	Dim. Type	Min Ø / Dim.	Max Ø /
Shut-off/Control Valve	Shut-off/Control Valve Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	
Shut-off/Control Valve	Shut-off/Control Valve Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	
Check Valve					
Check Valve	Check Valve Type 1	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	90	1250
Check Valve	Check Valve Type 2	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	110	630
Check Valve	Check Valve Type 3	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	110	630
Louvre Damper					
Louvre Damper	Louvre Damper	PVC-U, PVC-U white	Ø [mm]	110	600
Sleeve Gasket					
Sleeve Gasket	4-way Sleeve Gasket	PVC-U	Ø [mm]	140	1250
Sleeve Gasket	4-way Sleeve Gasket (TPE)	TPE	Ø [mm]	110	1250
Sleeve Gasket	4-way Sleeve with Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	140	1250
Sleeve Gasket	4-way Sleeve with Flange (TPE)	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Sleeve Gasket	4-way Sleeve with Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	140	1250
Sleeve Gasket	4-way Sleeve with Socket (TPE)	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Sleeve Gasket	6-way Sleeve Gasket	PVC-U, TPE	Ø [mm]	110	1250
Sleeve Gasket	6-way Sleeve with Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Sleeve Gasket	6-way Sleeve with Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Pipe Silencer					
Pipe Silencer	Pipe Silencer L=1000 Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Pipe Silencer	Pipe Silencer L=1000 Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Pipe Silencer	Pipe Silencer L=1250 Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Pipe Silencer	Pipe Silencer L=1250 Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Pipe Silencer	Pipe Silencer L=1500 Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Pipe Silencer	Pipe Silencer L=1500 Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Pipe Silencer	Pipe Silencer L=1750 Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Pipe Silencer	Pipe Silencer L=1750 Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250

Category	Product Type	Materials	Dim. Type	Min Ø / Dim.	Max Ø /
Pipe Silencer	Pipe Silencer L=2000 Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	
Pipe Silencer	Pipe Silencer L=2000 Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	
Pipe Silencer	Pipe Silencer L=500 Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	600
Pipe Silencer	Pipe Silencer L=500 Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	600
Pipe Silencer	Pipe Silencer L=750 Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	600
Pipe Silencer	Pipe Silencer L=750 Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	600
Deflector Hood					
Deflector Hood	Deflector Hood Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	110	1250
Deflector Hood	Deflector Hood Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	110	1250
Rain Hood					
Rain Hood	Rain Hood Flange	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Rain Hood	Rain Hood Socket	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Roof Fitting					
Roof Fitting	Roof Fitting 0°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	110	1250
Roof Fitting	Roof Fitting 1–22°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	75	1250
Roof Fitting	Roof Fitting 23–45°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	110	1250
Saddle Branch					
Saddle Branch	Saddle Branch 45°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Saddle Branch	Saddle Branch 90°	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Accessories					
Accessories	End Cap	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Accessories	Inspection Opening	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	110	1250
Accessories	Bird Guard	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	50	1250
Accessories	Wall Penetration	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	Ø [mm]	110	1250
Spiral Hose					
Spiral Hose	Spiral Hose	PVC-U, PVC-U white	Ø [mm]	50	500

Category	Product Type	Materials	Dim. Type	Min Ø / Dim.	Max Ø /
Slot Slide					
Slot Slide	Slot Slide Rectangular	PVC-U, PVC-U white, PPs, PP-H, PE-HD	B x H [mm]		
Slot Slide	Slot Slide Round	PVC-U, PVC-U white, PPs, PP-H, PE-HD	Ø [mm]	110	400
Grille / Frame					
Grille / Frame	Mounting Frame	PVC-U, PVC-U white, PPs, PP-H, PE-HD, PP-EL-s, PVDF	B x H [mm]	300 x 100	600 x 250
Grille / Frame	Supply/Exhaust Grille	PVC-U	B x H [mm]	300 x 100	600 x 250

Ø	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	
	L	min. s	L	min. s
50	25	1,8	25	3,0
63	25	1,8	25	3,0
75	40	1,8	40	3,0
90	40	1,8	40	3,0
110	40	1,8	40	3,0
125	40	1,8	40	3,0
140	40	1,8	40	3,0
160	40	1,8	40	3,0
180	40	1,8	40	3,0
200	40	1,8	40	3,0
225	40	1,8	40	3,5
250	40	2,0	40	3,5
280	50	2,3	50	3,5
315	50	4,9	50	4,0
355	50	2,9	50	4,0
400	50	3,2	50	4,5
450	50	3,6	50	5,0
500	50	4,0	50	5,0
560	-	-	60	5,0
600	60	5,0	60	6,0
630	-	-	70	6,0
700	70	6,0	70	6,0
710	-	-	80	6,0
800	80	8,0	80	8,0
900	90	8,0	90	8,0
1000	100	10,0	100	10,0
1200	120	12,0	120	12,0
1250	130	12,0	130	12,0

PVC ab Ø 700 mm, PE-HD/PP-H/PPs ab Ø560 mm, PP-EL-s und PVDF ab Ø 450 mm als Segmentbogen gefertigt.

PVC from Ø 700 mm, PE-HD/PP-H/PPs from Ø560 mm, PP-EL-s and PVDF from Ø 450 mm are manufactured as segmental bends.

PVC à partir de Ø 700 mm, PE-HD/PP-H/PPs à partir de Ø560 mm, PP-EL-s et PVDF à partir de Ø 450 mm coudes fabriqués avec des segments.

Ø	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	
	L	min. s	L	min. s
50	25	1,8	25	3,0
63	25	1,8	25	3,0
75	40	1,8	40	3,0
90	40	1,8	40	3,0
110	40	1,8	40	3,0
125	40	1,8	40	3,0
140	40	1,8	40	3,0
160	40	1,8	40	3,0
180	40	1,8	40	3,0
200	40	1,8	40	3,0
225	40	1,8	40	3,5
250	40	2,0	40	3,5
280	50	2,3	50	3,5
315	50	4,9	50	4,0
355	50	2,9	50	4,0
400	50	3,2	50	4,5
450	50	3,6	50	5,0
500	50	4,0	50	5,0
560	-	-	60	5,0
600	60	5,0	60	6,0
630	-	-	70	6,0
700	70	6,0	70	6,0
710	-	-	80	6,0
800	80	8,0	80	8,0
900	90	8,0	90	8,0
1000	100	10,0	100	10,0
1200	120	12,0	120	12,0
1250	130	12,0	130	12,0

PVC ab Ø 700 mm, PE-HD/PP-H/PPs ab Ø560 mm, PP-EL-s und PVDF ab Ø 450 mm als Segmentbogen gefertigt.

PVC from Ø 700 mm, PE-HD/PP-H/PPs from Ø560 mm, PP-EL-s and PVDF from Ø 450 mm are manufactured as segmental bends.

PVC à partir de Ø 700 mm, PE-HD/PP-H/PPs à partir de Ø560 mm, PP-EL-s et PVDF à partir de Ø 450 mm coudes fabriqués avec des segments.

Ø	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	
	L	min. s	L	min. s
50	25	1,8	25	3,0
63	25	1,8	25	3,0
75	40	1,8	40	3,0
90	40	1,8	40	3,0
110	40	1,8	40	3,0
125	40	1,8	40	3,0
140	40	1,8	40	3,0
160	40	1,8	40	3,0
180	40	1,8	40	3,0
200	40	1,8	40	3,0
225	40	1,8	40	3,5
250	40	2,0	40	3,5
280	50	2,3	50	3,5
315	50	4,9	50	4,0
355	50	2,9	50	4,0
400	50	3,2	50	4,5
450	50	3,6	50	5,0
500	50	4,0	50	5,0
560	-	-	60	5,0
600	60	5,0	60	6,0
630	-	-	70	6,0
700	70	6,0	70	6,0
710	-	-	80	6,0
800	80	8,0	80	8,0
900	90	8,0	90	8,0
1000	100	10,0	100	10,0
1200	120	12,0	120	12,0
1250	130	12,0	130	12,0

PVC ab Ø 700 mm, PE-HD/PP-H/PPs ab Ø560 mm, PP-EL-s und PVDF ab Ø 450 mm als Segmentbogen gefertigt.

PVC from Ø 700 mm, PE-HD/PP-H/PPs from Ø560 mm, PP-EL-s and PVDF from Ø 450 mm are manufactured as segmental bends.

PVC à partir de Ø 700 mm, PE-HD/PP-H/PPs à partir de Ø560 mm, PP-EL-s et PVDF à partir de Ø 450 mm coudes fabriqués avec des segments.

	PVC	PE-HD/PP-H/PPs/PP-EL-s/PVDF		
Ø	L	min. s	L	min. s
50	25	1,8	25	3,0
63	25	1,8	25	3,0
75	40	1,8	40	3,0
90	40	1,8	40	3,0
110	40	1,8	40	3,0
125	40	1,8	40	3,0
140	40	1,8	40	3,0
160	40	1,8	40	3,0
180	40	1,8	40	3,0
200	40	1,8	40	3,0
225	40	1,8	40	3,5
250	40	2,0	40	3,5
280	50	2,3	50	3,5
315	50	2,5	50	4,0
355	50	2,9	50	4,0
400	50	3,2	50	4,5
450	50	3,6	50	5,0
500	50	4,0	50	5,0
560	-	-	60	5,0
600	60	5,0	60	6,0
630	-	-	70	6,0
700	70	6,0	70	6,0
710	-	-	80	6,0
800	80	8,0	80	8,0
900	90	8,0	90	8,0
1000	100	10,0	100	10,0
1200	120	12,0	120	12,0
1250	130	12,0	130	12,0

PVC ab Ø 700 mm, PE-HD/PP-H/PPs ab Ø560 mm, PP-EL-s und PVDF ab Ø 450 mm als Segmentbogen gefertigt.

PVC from Ø 700 mm, PE-HD/PP-H/PPs from Ø560 mm, PP-EL-s and PVDF from Ø 450 mm are manufactured as segmental bends.

PVC à partir de Ø 700 mm, PE-HD/PP-H/PPs à partir de Ø560 mm, PP-EL-s et PVDF à partir de Ø 450 mm coudes fabriqués avec des segments.

Ø	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	
	L	min. s	L	min. s
50	25	1,8	25	3,0
63	25	1,8	25	3,0
75	40	1,8	40	3,0
90	40	1,8	40	3,0
110	40	1,8	40	3,0
125	40	1,8	40	3,0
140	40	1,8	40	3,0
160	40	1,8	40	3,0
180	40	1,8	40	3,0
200	40	1,8	40	3,0
225	40	1,8	40	3,5
250	40	2,0	40	3,5
280	50	2,3	50	3,5
315	50	2,5	50	4,0
355	50	2,9	50	4,0
400	50	3,2	50	4,5
450	50	3,6	50	5,0
500	50	4,0	50	5,0
560	-	-	60	5,0
600	60	5,0	60	6,0
630	-	-	70	6,0
700	70	6,0	70	6,0
710	-	-	80	6,0
800	80	8,0	80	8,0
900	90	8,0	90	8,0
1000	100	10,0	100	10,0
1200	120	12,0	120	12,0
1250	130	12,0	130	12,0

PVC ab Ø 700 mm, PE-HD/PP-H/PPs ab Ø560 mm, PP-EL-s und PVDF ab Ø 450 mm als Segmentbogen gefertigt.

PVC from Ø 700 mm, PE-HD/PP-H/PPs from Ø560 mm, PP-EL-s and PVDF from Ø 450 mm are manufactured as segmental bends.

PVC à partir de Ø 700 mm, PE-HD/PP-H/PPs à partir de Ø560 mm, PP-EL-s et PVDF à partir de Ø 450 mm coudes fabriqués avec des segments.

Ø	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	
	L	min. s	L	min. s
50	25	1,8	25	3,0
63	25	1,8	25	3,0
75	40	1,8	40	3,0
90	40	1,8	40	3,0
110	40	1,8	40	3,0
125	40	1,8	40	3,0
140	40	1,8	40	3,0
160	40	1,8	40	3,0
180	40	1,8	40	3,0
200	40	1,8	40	3,0
225	40	1,8	40	3,5
250	40	2,0	40	3,5
280	50	2,3	50	3,5
315	50	2,5	50	4,0
355	50	2,9	50	4,0
400	50	3,2	50	4,5
450	50	3,6	50	5,0
500	50	4,0	50	5,0
560	-	-	60	5,0
600	60	5,0	60	6,0
630	-	-	70	6,0
700	70	6,0	70	6,0
710	-	-	80	6,0
800	80	8,0	80	8,0
900	90	8,0	90	8,0
1000	100	10,0	100	10,0
1200	120	12,0	120	12,0
1250	130	12,0	130	12,0

PVC ab Ø 700 mm, PE-HD/PP-H/PPs ab Ø560 mm, PP-EL-s und PVDF ab Ø 450 mm als Segmentbogen gefertigt.

PVC from Ø 700 mm, PE-HD/PP-H/PPs from Ø560 mm, PP-EL-s and PVDF from Ø 450 mm are manufactured as segmental bends.

PVC à partir de Ø 700 mm, PE-HD/PP-H/PPs à partir de Ø560 mm, PP-EL-s et PVDF à partir de Ø 450 mm coudes fabriqués avec des segments.

Ø	PVC				PE-HD/PP-H/PPs/PP-EL-s/PVDF			
	L	L1	L2	s	L	L1	L2	s
50	25	75	12	2,5	25	75	12	3,0
63	25	75	6	2,5	25	75	6	3,0
75	40	105	15	2,5	40	105	15	3,0
90	40	120	15	2,5	40	120	15	3,0
110	40	140	15	2,5	40	140	15	3,0
125	40	155	15	2,5	40	155	15	3,0
140	40	170	15	2,5	40	170	15	3,0
160	40	190	15	2,5	40	190	15	3,0
180	40	210	15	2,5	40	210	15	3,0
200	40	230	15	2,5	40	230	15	4,0
225	40	270	15	2,5	40	270	15	4,0
250	40	280	12	2,5	40	280	12	4,0
280	50	320	20	2,5	50	320	20	4,0
315	50	345	8	4,0	50	345	8	5,0
355	45	390	20	3,0	50	405	55	5,0
400	45	460	60	3,0	50	460	60	6,0
450	50	586	70	3,6	50	586	70	5,0
500	50	650	75	5,0	50	650	75	5,0
560	-	-	-	-	60	728	85	6,0
600	60	780	90	5,0	60	780	90	6,0
630	-	-	-	-	70	820	100	6,0
700	70	910	105	6,0	70	910	105	6,0
710	-	-	-	-	80	924	110	6,0
800	80	1040	120	8,0	80	1040	120	8,0
900	90	1170	135	8,0	90	1170	135	8,0
1000	100	1300	150	10,0	100	1300	150	10,0
1200	120	1560	180	12,0	120	1560	180	12,0
1250	130	1626	190	12,0	130	1626	190	12,0

	PVC				PE-HD/PP-H/PPs/PP-EL-s/PVDF			
Ø	L	L1	L2	s	L	L1	L2	s
50	40	171	50	2,5	40	171	50	3,0
63	40	189	50	2,5	40	189	50	3,0
75	40	206	50	2,5	40	242	68	3,0
90	40	227	50	2,5	40	263	68	3,0
110	40	256	50	2,5	40	282	63	3,0
125	40	277	50	2,5	40	313	68	3,0
140	40	298	50	2,5	40	334	68	3,0
160	40	326	50	2,5	40	352	63	3,0
180	40	355	50	2,5	40	391	68	3,0
200	40	383	50	2,5	40	409	63	4,0
225	40	418	50	2,5	40	454	68	4,0
250	40	454	50	2,5	40	480	63	4,0
280	50	496	50	2,5	50	532	68	4,0
315	50	545	50	4,0	50	581	68	5,0
355	50	602	50	3,0	50	638	68	5,0
400	50	666	50	3,0	50	702	68	6,0
450	50	818	90	3,6	50	818	90	5,0
500	50	908	100	5,0	50	908	100	5,0
560	-	-	-	-	60	1016	112	6,0
600	60	1090	120	5,0	60	1090	120	6,0
630	-	-	-	-	70	1144	126	6,0
700	70	1270	140	6,0	70	1270	140	6,0
710	-	-	-	-	80	1290	142	6,0
800	80	1452	160	8,0	80	1452	160	8,0
900	90	1634	180	8,0	90	1634	180	8,0
1000	100	1816	200	10,0	100	1816	200	10,0
1200	120	2178	240	12,0	120	2178	240	12,0
1250	130	2268	250	12,0	130	2268	250	12,0

		PVC					PE-HD/PP-H/PPS/PP-EL-s/PVDF				
Ø 1	Ø 2	L	La	L1	L2	s	L	La	L1	L2	s
63	50	25	25	75	47	2,5	25	25	75	47	3,0
75	50	40	40	105	75	2,5	40	40	105	75	3,0
75	63	40	40	105	75	2,5	40	40	105	75	3,0
90	50	40	40	120	95	2,5	40	40	120	95	3,0
90	63	40	40	120	85	2,5	40	40	120	85	3,0
90	75	40	40	120	90	2,5	40	40	120	90	3,0
110	50	40	40	140	120	2,5	40	40	140	120	3,0
110	63	40	40	140	110	2,5	40	40	140	110	3,0
110	75	40	40	140	150	2,5	40	40	140	150	3,0
110	90	40	40	140	130	2,5	40	40	140	130	3,0
125	50	40	40	155	140	2,5	40	40	155	140	3,0
125	63	40	40	155	130	2,5	40	40	155	130	3,0
125	75	40	40	155	120	2,5	40	40	155	120	3,0
125	90	40	40	155	110	2,5	40	40	155	110	3,0
125	110	40	40	155	110	2,5	40	40	155	110	3,0
140	50	40	40	170	155	2,5	40	40	170	155	3,0
140	63	40	40	170	145	2,5	40	40	170	145	3,0
140	75	40	40	170	135	2,5	40	40	170	135	3,0
140	90	40	40	170	125	2,5	40	40	170	125	3,0
140	110	40	40	170	155	2,5	40	40	170	155	3,0
140	125	40	40	170	125	2,5	40	40	170	125	3,0
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160	75	40	40	190	155	2,5	40	40	190	155	3,0
160	90	40	40	190	145	2,5	40	40	190	145	3,0
160	110	40	40	190	135	2,5	40	40	190	135	3,0
160	125	40	40	190	120	2,5	40	40	190	120	3,0
160	140	40	40	190	155	2,5	40	40	190	155	3,0
180	50	40	40	210	200	2,5	40	40	210	200	3,0
180	63	40	40	210	190	2,5	40	40	210	190	3,0
180	75	40	40	210	180	2,5	40	40	210	180	3,0
180	90	40	40	210	165	2,5	40	40	210	165	3,0
180	110	40	40	210	165	2,5	40	40	210	165	3,0
180	125	40	40	210	155	2,5	40	40	210	155	3,0
180	140	40	40	210	140	2,5	40	40	210	140	3,0
180	160	40	40	210	125	2,5	40	40	210	125	3,0
200	50	40	40	230	225	2,5	40	40	230	225	4,0
200	63	40	40	230	215	2,5	40	40	230	215	4,0
200	75	40	40	230	205	2,5	40	40	230	205	4,0
200	90	40	40	230	195	2,5	40	40	230	195	4,0
200	110	40	40	230	195	2,5	40	40	230	195	4,0
200	125	40	40	230	170	2,5	40	40	230	170	4,0
200	140	40	40	230	165	2,5	40	40	230	165	4,0
200	160	40	40	230	215	2,5	40	40	230	215	4,0
200	180	40	40	230	175	2,5	40	40	230	175	4,0
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225	63	40	40	270	245	2,5	40	40	270	245	3,5
225	90	40	40	270	235	2,5	40	40	270	235	3,5
225	110	40	40	270	210	2,5	40	40	270	210	3,5
225	125	40	40	270	235	2,5	40	40	270	235	3,5
225	140	40	40	270	230	2,5	40	40	270	230	3,5
225	160	40	40	270	210	2,5	40	40	270	210	3,5
225	180	40	40	270	195	2,5	40	40	270	195	3,5
225	200	40	40	270	190	2,5	40	40	270	190	3,5
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250	180	40	40	280	190	2,5	40	40	280	190	3,5
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250	225	40	40	280	220	2,5	40	40	280	220	3,5
280	50	50	40	320	325	2,5	50	40	320	325	4,0
280	63	50	40	320	315	2,5	50	40	320	315	4,0
280	75	50	40	320	305	2,5	50	40	320	305	4,0
280	90	50	40	320	295	2,5	50	40	320	295	4,0
280	110	50	40	320	280	2,5	50	40	320	280	4,0
280	125	50	40	320	270	2,5	50	40	320	270	4,0
280	140	50	40	320	260	2,5	50	40	320	260	4,0

280	160	50	40	320	270	2,5	50	40	320	270	4,0
280	180	50	40	320	235	2,5	50	40	320	235	4,0
280	200	50	40	320	275	2,5	50	40	320	275	4,0
280	225	50	40	320	235	2,5	50	40	320	235	4,0
280	250	50	40	320	205	2,5	50	40	320	205	4,0
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315	75	50	40	345	335	4,0	50	40	345	335	5,0
315	90	50	40	345	320	4,0	50	40	345	320	5,0
315	110	50	40	345	305	4,0	50	40	345	305	5,0
315	125	50	40	345	300	4,0	50	40	345	300	5,0
315	140	50	40	345	290	4,0	50	40	345	290	5,0
315	160	50	40	345	305	4,0	50	40	345	305	5,0
315	180	50	40	345	260	4,0	50	40	345	260	5,0
315	200	50	40	345	340	4,0	50	40	345	340	5,0
315	225	50	40	345	310	4,0	50	40	345	310	5,0
315	250	50	40	345	275	4,0	50	40	345	275	5,0
315	280	50	50	345	195	4,0	50	50	345	195	5,0
355	50	45	40	160	233	3,0	50	40	190	233	5,0
355	63	45	40	173	233	3,0	50	40	203	233	5,0
355	75	45	40	185	233	3,0	50	40	215	248	5,0
355	90	45	40	200	233	3,0	50	40	230	248	5,0
355	110	45	40	220	233	3,0	50	40	250	243	5,0
355	125	45	40	235	233	3,0	50	40	265	248	5,0
355	140	45	40	250	233	3,0	50	40	280	248	5,0
355	160	45	40	270	233	3,0	50	40	300	243	5,0
355	180	45	40	290	233	3,0	50	40	320	248	5,0
355	200	45	40	310	233	3,0	50	40	340	243	5,0
355	225	45	40	335	233	3,0	50	40	365	248	5,0
355	250	45	40	360	233	3,0	50	40	390	243	5,0
355	280	45	50	390	238	3,0	50	50	420	248	5,0
355	315	45	50	425	238	3,0	50	50	455	248	5,0
400	50	45	40	160	255	3,0	50	35	190	255	6,0
400	63	45	40	173	255	3,0	50	35	203	255	6,0
400	75	45	40	185	255	3,0	50	40	215	270	6,0
400	90	45	40	200	255	3,0	50	40	230	270	6,0
400	110	45	40	220	255	3,0	50	40	250	265	6,0
400	125	45	40	235	255	3,0	50	40	265	270	6,0
400	140	45	40	250	255	3,0	50	40	280	270	6,0
400	160	45	40	270	255	3,0	50	40	300	265	6,0
400	180	45	40	290	255	3,0	50	40	320	270	6,0
400	200	45	40	310	255	3,0	50	40	340	265	6,0
400	225	45	40	335	255	3,0	50	40	365	270	6,0
400	250	45	40	360	255	3,0	50	40	390	265	6,0
400	280	45	50	390	260	3,0	50	50	420	270	6,0
400	315	45	50	425	260	3,0	50	50	455	270	6,0
400	355	45	50	465	260	3,0	50	50	495	270	6,0
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450	63	50	40	203	280	3,6	50	40	203	280	5,0
450	75	50	40	215	280	3,6	50	40	215	295	5,0
450	90	50	40	230	280	3,6	50	40	230	295	5,0
450	110	50	40	250	280	3,6	50	40	250	290	5,0
450	125	50	40	265	280	3,6	50	40	265	295	5,0
450	140	50	40	280	280	3,6	50	40	280	295	5,0
450	160	50	40	300	280	3,6	50	40	300	290	5,0
450	180	50	40	320	280	3,6	50	40	320	295	5,0
450	200	50	40	340	280	3,6	50	40	340	290	5,0
450	225	50	40	365	280	3,6	50	40	365	295	5,0
450	250	50	40	390	280	3,6	50	40	390	290	5,0
450	280	50	50	420	285	3,6	50	50	420	295	5,0
450	315	50	50	455	285	3,6	50	50	455	295	5,0
450	355	50	50	495	285	3,6	50	50	495	295	5,0
450	400	50	50	540	285	3,6	50	50	540	295	5,0
500	50	50	40	190	305	3,6	50	40	190	305	5,0
500	63	50	40	203	305	3,6	50	40	203	305	5,0
500	75	50	40	215	305	5,0	50	40	215	320	5,0
500	90	50	40	230	305	5,0	50	40	230	320	5,0
500	110	50	40	250	305	5,0	50	40	250	315	5,0
500	125	50	40	265	305	5,0	50	40	265	320	5,0
500	140	50	40	280	305	5,0	50	40	280	320	5,0
500	160	50	40	300	305	5,0	50	40	300	315	5,0
500	180	50	40	320	305	5,0	50	40	320	320	5,0
500	200	50	40	340	305	5,0	50	40	340	315	5,0
500	225	50	40	365	305	5,0	50	40	365	320	5,0

500	250	50	40	390	305	5,0	50	40	390	315	5,0
500	280	50	50	420	310	5,0	50	50	420	320	5,0
500	315	50	50	455	310	5,0	50	50	455	320	5,0
500	355	50	50	495	310	5,0	50	50	495	320	5,0
500	400	50	50	540	310	5,0	50	50	540	320	5,0
500	450	50	50	586	318	5,0	50	50	586	318	5,0
560	50	-	-	-	-	-	60	40	190	335	6,0
560	63	-	-	-	-	-	60	40	203	335	6,0
560	75	-	-	-	-	-	60	40	215	350	6,0
560	90	-	-	-	-	-	60	40	230	350	6,0
560	110	-	-	-	-	-	60	40	250	345	6,0
560	125	-	-	-	-	-	60	40	265	350	6,0
560	140	-	-	-	-	-	60	40	280	350	6,0
560	160	-	-	-	-	-	60	40	300	345	6,0
560	180	-	-	-	-	-	60	40	320	350	6,0
560	200	-	-	-	-	-	60	40	340	345	6,0
560	225	-	-	-	-	-	60	40	365	350	6,0
560	250	-	-	-	-	-	60	40	390	345	6,0
560	280	-	-	-	-	-	60	50	420	350	6,0
560	315	-	-	-	-	-	60	50	455	350	6,0
560	355	-	-	-	-	-	60	50	495	350	6,0
560	400	-	-	-	-	-	60	50	540	350	6,0
560	450	-	-	-	-	-	60	50	586	348	6,0
560	500	-	-	-	-	-	60	50	650	355	6,0
600	50	60	40	190	355	5,0	60	40	190	355	6,0
600	63	60	40	203	355	5,0	60	40	203	355	6,0
600	75	60	40	215	355	5,0	60	40	215	370	6,0
600	90	60	40	230	355	5,0	60	40	230	370	6,0
600	110	60	40	250	355	5,0	60	40	250	365	6,0
600	125	60	40	265	355	5,0	60	40	265	370	6,0
600	140	60	40	280	355	5,0	60	40	280	370	6,0
600	160	60	40	300	355	5,0	60	40	300	365	6,0
600	180	60	40	320	355	5,0	60	40	320	370	6,0
600	200	60	40	340	355	5,0	60	40	340	365	6,0
600	225	60	40	365	355	5,0	60	40	365	370	6,0
600	250	60	40	390	355	5,0	60	40	390	365	6,0
600	280	60	50	420	360	5,0	60	50	420	370	6,0
600	315	60	50	455	360	5,0	60	50	455	370	6,0
600	355	60	50	495	360	5,0	60	50	495	370	6,0
600	400	60	50	540	360	5,0	60	50	540	370	6,0
600	450	60	50	586	355	5,0	60	50	586	368	6,0
600	500	60	50	650	355	5,0	60	50	650	375	6,0
600	560	-	-	-	-	-	60	60	728	384	6,0
630	50	-	-	-	-	-	70	40	190	370	6,0
630	63	-	-	-	-	-	70	40	203	370	6,0
630	75	-	-	-	-	-	70	40	215	385	6,0
630	90	-	-	-	-	-	70	40	230	385	6,0
630	110	-	-	-	-	-	70	40	250	380	6,0
630	125	-	-	-	-	-	70	40	265	385	6,0
630	140	-	-	-	-	-	70	40	280	385	6,0
630	160	-	-	-	-	-	70	40	300	380	6,0
630	180	-	-	-	-	-	70	40	320	385	6,0
630	200	-	-	-	-	-	70	40	340	380	6,0
630	225	-	-	-	-	-	70	40	365	385	6,0
630	250	-	-	-	-	-	70	40	390	380	6,0
630	280	-	-	-	-	-	70	50	420	385	6,0
630	315	-	-	-	-	-	70	50	455	385	6,0
630	355	-	-	-	-	-	70	50	495	385	6,0
630	400	-	-	-	-	-	70	50	540	385	6,0
630	450	-	-	-	-	-	70	50	586	383	6,0
630	500	-	-	-	-	-	70	50	650	390	6,0
630	560	-	-	-	-	-	70	60	728	399	6,0
630	600	-	-	-	-	-	70	60	780	405	6,0
700	50	70	40	190	405	6,0	70	40	190	405	6,0
700	63	70	40	203	405	6,0	70	40	203	405	6,0
700	75	70	40	215	405	6,0	70	40	215	420	6,0
700	90	70	40	230	405	6,0	70	40	230	420	6,0
700	110	70	40	250	405	6,0	70	40	250	415	6,0
700	125	70	40	265	405	6,0	70	40	265	420	6,0
700	140	70	40	280	405	6,0	70	40	280	420	6,0
700	160	70	40	300	405	6,0	70	40	300	415	6,0
700	180	70	40	320	405	6,0	70	40	320	420	6,0
700	200	70	40	340	405	6,0	70	40	340	415	6,0
700	225	70	40	365	405	6,0	70	40	365	420	6,0

700	250	70	40	390	405	6,0	70	40	390	415	6,0
700	280	70	50	420	410	6,0	70	50	420	420	6,0
700	315	70	50	455	410	6,0	70	50	455	420	6,0
700	355	70	50	495	410	6,0	70	50	495	420	6,0
700	400	70	50	540	410	6,0	70	50	540	420	6,0
700	450	70	50	586	418	6,0	70	50	586	418	6,0
700	500	70	50	650	425	6,0	70	50	650	425	6,0
700	560	-	-	-	-	-	70	60	728	434	6,0
700	600	70	60	780	440	6,0	70	60	780	440	6,0
700	630	-	-	-	-	-	70	70	820	445	6,0
710	50	-	-	-	-	-	80	40	190	410	6,0
710	63	-	-	-	-	-	80	40	203	410	6,0
710	75	-	-	-	-	-	80	40	215	425	6,0
710	90	-	-	-	-	-	80	40	230	425	6,0
710	110	-	-	-	-	-	80	40	250	420	6,0
710	125	-	-	-	-	-	80	40	265	425	6,0
710	140	-	-	-	-	-	80	40	280	425	6,0
710	160	-	-	-	-	-	80	40	300	420	6,0
710	180	-	-	-	-	-	80	40	320	425	6,0
710	200	-	-	-	-	-	80	40	340	420	6,0
710	225	-	-	-	-	-	80	40	365	425	6,0
710	250	-	-	-	-	-	80	40	390	420	6,0
710	280	-	-	-	-	-	80	50	420	425	6,0
710	315	-	-	-	-	-	80	50	455	425	6,0
710	355	-	-	-	-	-	80	50	495	425	6,0
710	400	-	-	-	-	-	80	50	540	425	6,0
710	450	-	-	-	-	-	80	50	586	423	6,0
710	500	-	-	-	-	-	80	50	650	430	6,0
710	560	-	-	-	-	-	80	60	728	439	6,0
710	600	-	-	-	-	-	80	60	780	445	6,0
710	630	-	-	-	-	-	80	70	820	450	6,0
710	700	-	-	-	-	-	80	70	910	460	6,0
800	50	80	40	190	455	8,0	80	40	190	455	8,0
800	63	80	40	203	455	8,0	80	40	203	455	8,0
800	75	80	40	215	455	8,0	80	40	215	470	8,0
800	90	80	40	230	455	8,0	80	40	230	470	8,0
800	110	80	40	250	455	8,0	80	40	250	465	8,0
800	125	80	40	265	455	8,0	80	40	265	470	8,0
800	140	80	40	280	455	8,0	80	40	280	470	8,0
800	160	80	40	300	455	8,0	80	40	300	465	8,0
800	180	80	40	320	455	8,0	80	40	320	470	8,0
800	200	80	40	340	455	8,0	80	40	340	465	8,0
800	225	80	40	365	455	8,0	80	40	365	470	8,0
800	250	80	40	390	455	8,0	80	40	390	465	8,0
800	280	80	50	420	460	8,0	80	50	420	470	8,0
800	315	80	50	455	460	8,0	80	50	455	470	8,0
800	355	80	50	495	460	8,0	80	50	495	470	8,0
800	400	80	50	540	460	8,0	80	50	540	470	8,0
800	450	80	50	586	468	8,0	80	50	586	468	8,0
800	500	80	50	650	475	8,0	80	50	650	475	8,0
800	560	-	-	-	-	-	80	60	728	484	8,0
800	600	80	60	780	490	8,0	80	60	780	490	8,0
800	630	-	-	-	-	-	80	70	820	495	8,0
800	700	80	70	910	505	8,0	80	70	910	505	8,0
800	710	-	-	-	-	-	80	80	924	507	8,0
900	50	90	40	190	505	8,0	90	40	190	505	8,0
900	63	90	40	203	505	8,0	90	40	203	505	8,0
900	75	90	40	215	505	8,0	90	40	215	520	8,0
900	90	90	40	230	505	8,0	90	40	230	520	8,0
900	110	90	40	250	505	8,0	90	40	250	515	8,0
900	125	90	40	265	505	8,0	90	40	265	520	8,0
900	140	90	40	280	505	8,0	90	40	280	520	8,0
900	160	90	40	300	505	8,0	90	40	300	515	8,0
900	180	90	40	320	505	8,0	90	40	320	520	8,0
900	200	90	40	340	505	8,0	90	40	340	515	8,0
900	225	90	40	365	505	8,0	90	40	365	520	8,0
900	250	90	40	390	505	8,0	90	40	390	515	8,0
900	280	90	50	420	510	8,0	90	50	420	520	8,0
900	315	90	50	455	510	8,0	90	50	455	520	8,0
900	355	90	50	495	510	8,0	90	50	495	520	8,0
900	400	90	50	540	510	8,0	90	50	540	520	8,0
900	450	90	50	586	518	8,0	90	50	586	518	8,0
900	500	90	50	650	525	8,0	90	50	650	525	8,0
900	560	-	-	-	-	-	90	60	728	534	8,0

900	600	90	60	780	540	8,0	90	60	780	540	8,0
900	630	-	-	-	-	-	90	70	820	545	8,0
900	700	90	70	910	555	8,0	90	70	910	555	8,0
900	710	-	-	-	-	-	90	80	924	557	8,0
900	800	90	80	1040	570	8,0	90	80	1040	570	8,0
1000	50	100	40	190	555	10,0	100	40	190	555	10,0
1000	63	100	40	203	555	10,0	100	40	203	555	10,0
1000	75	100	40	215	555	10,0	100	40	215	570	10,0
1000	90	100	40	230	555	10,0	100	40	230	570	10,0
1000	110	100	40	250	555	10,0	100	40	250	565	10,0
1000	125	100	40	265	555	10,0	100	40	265	570	10,0
1000	140	100	40	280	555	10,0	100	40	280	570	10,0
1000	160	100	40	300	555	10,0	100	40	300	565	10,0
1000	180	100	40	320	555	10,0	100	40	320	570	10,0
1000	200	100	40	340	555	10,0	100	40	340	565	10,0
1000	225	100	40	365	555	10,0	100	40	365	570	10,0
1000	250	100	40	390	555	10,0	100	40	390	565	10,0
1000	280	100	50	420	560	10,0	100	50	420	570	10,0
1000	315	100	50	455	560	10,0	100	50	455	570	10,0
1000	355	100	50	495	560	10,0	100	50	495	570	10,0
1000	400	100	50	540	560	10,0	100	50	540	570	10,0
1000	450	100	50	586	568	10,0	100	50	586	568	10,0
1000	500	100	50	650	575	10,0	100	50	650	575	10,0
1000	560	-	-	-	-	-	100	60	728	584	10,0
1000	600	100	60	780	590	10,0	100	60	780	590	10,0
1000	630	-	-	-	-	-	100	70	820	595	10,0
1000	700	100	70	910	605	10,0	100	70	910	605	10,0
1000	710	-	-	-	-	-	100	80	924	607	10,0
1000	800	100	80	1040	620	10,0	100	80	1040	620	10,0
1000	900	100	90	1170	635	10,0	100	90	1170	635	10,0
1200	50	120	40	190	655	12,0	120	40	190	655	12,0
1200	63	120	40	203	655	12,0	120	40	203	655	12,0
1200	75	120	40	215	655	12,0	120	40	215	670	12,0
1200	90	120	40	230	655	12,0	120	40	230	670	12,0
1200	110	120	40	250	655	12,0	120	40	250	665	12,0
1200	125	120	40	265	655	12,0	120	40	265	670	12,0
1200	140	120	40	280	655	12,0	120	40	280	670	12,0
1200	160	120	40	300	655	12,0	120	40	300	665	12,0
1200	180	120	40	320	655	12,0	120	40	320	670	12,0
1200	200	120	40	340	655	12,0	120	40	340	665	12,0
1200	225	120	40	365	655	12,0	120	40	365	670	12,0
1200	250	120	40	390	655	12,0	120	40	390	665	12,0
1200	280	120	50	420	660	12,0	120	50	420	670	12,0
1200	315	120	50	455	660	12,0	120	50	455	670	12,0
1200	355	120	50	495	660	12,0	120	50	495	670	12,0
1200	400	120	50	540	660	12,0	120	50	540	670	12,0
1200	450	120	50	586	668	12,0	120	50	586	668	12,0
1200	500	120	50	650	675	12,0	120	50	650	675	12,0
1200	560	-	-	-	-	-	120	60	728	684	12,0
1200	600	120	60	780	690	12,0	120	60	780	690	12,0
1200	630	-	-	-	-	-	120	70	820	695	12,0
1200	700	120	70	910	705	12,0	120	70	910	705	12,0
1200	710	-	-	-	-	-	120	80	924	707	12,0
1200	800	120	80	1040	720	12,0	120	80	1040	720	12,0
1200	900	120	90	1170	735	12,0	120	90	1170	735	12,0
1200	1000	120	100	1300	750	12,0	120	100	1300	750	12,0
1250	50	130	40	190	680	12,0	130	40	190	680	12,0
1250	63	130	40	203	680	12,0	130	40	203	680	12,0
1250	75	130	40	215	680	12,0	130	40	215	695	12,0
1250	90	130	40	230	680	12,0	130	40	230	695	12,0
1250	110	130	40	250	680	12,0	130	40	250	690	12,0
1250	125	130	40	265	680	12,0	130	40	265	695	12,0
1250	140	130	40	280	680	12,0	130	40	280	695	12,0
1250	160	130	40	300	680	12,0	130	40	300	690	12,0
1250	180	130	40	320	680	12,0	130	40	320	695	12,0
1250	200	130	40	340	680	12,0	130	40	340	690	12,0
1250	225	130	40	365	680	12,0	130	40	365	695	12,0
1250	250	130	40	390	680	12,0	130	40	390	690	12,0
1250	280	130	50	420	685	12,0	130	50	420	695	12,0
1250	315	130	50	455	685	12,0	130	50	455	695	12,0
1250	355	130	50	495	685	12,0	130	50	495	695	12,0
1250	400	130	50	540	685	12,0	130	50	540	695	12,0
1250	450	130	50	586	693	12,0	130	50	586	693	12,0
1250	500	130	50	650	700	12,0	130	50	650	700	12,0

1250	560	-	-	-	-	-	130	60	728	709	12,0
1250	600	130	60	780	715	12,0	130	60	780	715	12,0
1250	630	-	-	-	-	-	130	70	820	720	12,0
1250	700	130	70	910	730	12,0	130	70	910	730	12,0
1250	710	-	-	-	-	-	130	80	924	732	12,0
1250	800	130	80	1040	745	12,0	130	80	1040	745	12,0
1250	900	130	90	1170	760	12,0	130	90	1170	760	12,0
1250	1000	130	100	1300	775	12,0	130	100	1300	775	12,0
1250	1200	130	120	1560	805	12,0	130	120	1560	805	12,0

		PVC					PE-HD/PP-H/PPS/PP-EL-s/PVDF				
Ø 1	Ø 2	L	La	L1	L2	s	L	La	L1	L2	s
63	50	40	40	171	100	2,5	40	40	171	100	3,0
75	50	40	40	171	100	2,5	40	40	205	100	3,0
75	63	40	40	189	113	2,5	40	40	223	113	3,0
90	50	40	40	171	100	2,5	40	40	205	100	3,0
90	63	40	40	189	113	2,5	40	40	223	113	3,0
90	75	40	40	206	125	2,5	40	40	240	142	3,0
110	50	40	40	171	100	2,5	40	40	193	100	3,0
110	63	40	40	189	113	2,5	40	40	211	113	3,0
110	75	40	40	206	125	2,5	40	40	228	142	3,0
110	90	40	40	227	140	2,5	40	40	249	157	3,0
125	50	40	40	171	100	2,5	40	40	203	100	3,0
125	63	40	40	189	113	2,5	40	40	221	113	3,0
125	75	40	40	206	125	2,5	40	40	238	142	3,0
125	90	40	40	227	140	2,5	40	40	259	157	3,0
125	110	40	40	256	160	2,5	40	40	288	171	3,0
140	50	40	40	171	100	2,5	40	40	203	100	3,0
140	63	40	40	189	113	2,5	40	40	221	113	3,0
140	75	40	40	206	125	2,5	40	40	238	142	3,0
140	90	40	40	227	140	2,5	40	40	259	157	3,0
140	110	40	40	256	160	2,5	40	40	288	171	3,0
140	125	40	40	277	175	2,5	40	40	309	191	3,0
160	50	40	40	171	100	2,5	40	40	193	100	3,0
160	63	40	40	189	113	2,5	40	40	211	113	3,0
160	75	40	40	206	125	2,5	40	40	228	142	3,0
160	90	40	40	227	140	2,5	40	40	249	157	3,0
160	110	40	40	256	160	2,5	40	40	278	171	3,0
160	125	40	40	277	175	2,5	40	40	299	191	3,0
160	140	40	40	298	190	2,5	40	40	320	206	3,0
180	50	40	40	171	100	2,5	40	40	203	100	3,0
180	63	40	40	189	113	2,5	40	40	221	113	3,0
180	75	40	40	206	125	2,5	40	40	238	142	3,0
180	90	40	40	227	140	2,5	40	40	259	157	3,0
180	110	40	40	256	160	2,5	40	40	288	171	3,0
180	125	40	40	277	175	2,5	40	40	309	191	3,0
180	140	40	40	298	190	2,5	40	40	330	206	3,0
180	160	40	40	326	210	2,5	40	40	358	221	3,0
200	50	40	40	171	100	2,5	40	40	193	100	4,0
200	63	40	40	189	113	2,5	40	40	211	113	4,0
200	75	40	40	206	125	2,5	40	40	228	142	4,0
200	90	40	40	227	140	2,5	40	40	249	157	4,0
200	110	40	40	256	160	2,5	40	40	278	171	4,0
200	125	40	40	277	175	2,5	40	40	299	191	4,0
200	140	40	40	298	190	2,5	40	40	320	206	4,0
200	160	40	40	326	210	2,5	40	40	348	221	4,0
200	180	40	40	355	230	2,5	40	40	377	246	4,0
225	50	40	40	171	100	2,5	40	40	203	100	3,5
225	63	40	40	189	113	2,5	40	40	221	113	3,5
225	75	40	40	206	125	2,5	40	40	238	142	3,5
225	90	40	40	227	140	2,5	40	40	259	157	3,5
225	110	40	40	256	160	2,5	40	40	288	171	3,5
225	125	40	40	277	175	2,5	40	40	309	191	3,5
225	140	40	40	298	190	2,5	40	40	330	206	3,5
225	160	40	40	326	210	2,5	40	40	358	221	3,5
225	180	40	40	355	230	2,5	40	40	387	246	3,5
225	200	40	40	383	250	2,5	40	40	415	261	3,5
250	50	40	40	171	100	2,5	40	40	193	100	3,5
250	63	40	40	189	113	2,5	40	40	211	113	3,5
250	75	40	40	206	125	2,5	40	40	228	142	3,5
250	90	40	40	227	140	2,5	40	40	249	157	3,5
250	110	40	40	256	160	2,5	40	40	278	171	3,5
250	125	40	40	277	175	2,5	40	40	299	191	3,5
250	140	40	40	298	190	2,5	40	40	320	206	3,5
250	160	40	40	326	210	2,5	40	40	348	221	3,5
250	180	40	40	355	230	2,5	40	40	377	246	3,5
250	200	40	40	383	250	2,5	40	40	405	261	3,5
250	225	40	40	418	275	2,5	40	40	440	291	3,5
280	50	40	40	171	100	2,5	40	40	203	100	4,0
280	63	40	40	189	113	2,5	40	40	221	113	4,0
280	75	50	40	206	125	2,5	50	40	238	142	4,0
280	90	50	40	227	140	2,5	50	40	259	157	4,0
280	110	50	40	256	160	2,5	50	40	288	171	4,0
280	125	50	40	277	175	2,5	50	40	309	191	4,0

280	140	50	40	298	190	2,5	50	40	330	206	4,0
280	160	50	40	326	210	2,5	50	40	358	221	4,0
280	180	50	40	355	230	2,5	50	40	387	246	4,0
280	200	50	40	383	250	2,5	50	40	415	261	4,0
280	225	50	40	418	275	2,5	50	40	450	291	4,0
280	250	50	40	454	300	2,5	50	40	486	311	4,0
315	50	50	40	171	100	4,0	50	40	203	100	5,0
315	63	50	40	189	113	4,0	50	40	221	113	5,0
315	75	50	40	206	125	4,0	50	40	238	142	5,0
315	90	50	40	227	140	4,0	50	40	259	157	5,0
315	110	50	40	256	160	4,0	50	40	288	171	5,0
315	125	50	40	277	175	4,0	50	40	309	191	5,0
315	140	50	40	298	190	4,0	50	40	330	206	5,0
315	160	50	40	326	210	4,0	50	40	358	221	5,0
315	180	50	40	355	230	4,0	50	40	387	246	5,0
315	200	50	40	383	250	4,0	50	40	415	261	5,0
315	225	50	40	418	275	4,0	50	40	450	291	5,0
315	250	50	40	454	300	4,0	50	40	486	311	5,0
315	280	50	50	496	330	4,0	50	50	528	346	5,0
355	50	50	40	171	100	3,0	50	40	201	100	5,0
355	63	50	40	189	113	3,0	50	40	219	113	5,0
355	75	50	40	206	125	3,0	50	40	236	142	5,0
355	90	50	40	227	140	3,0	50	40	257	157	5,0
355	110	50	40	256	160	3,0	50	40	286	171	5,0
355	125	50	40	277	175	3,0	50	40	307	191	5,0
355	140	50	40	298	190	3,0	50	40	328	206	5,0
355	160	50	40	326	210	3,0	50	40	356	221	5,0
355	180	50	40	355	230	3,0	50	40	385	246	5,0
355	200	50	40	383	250	3,0	50	40	413	261	5,0
355	225	50	40	418	275	3,0	50	40	448	291	5,0
355	250	50	40	454	300	3,0	50	40	484	311	5,0
355	280	50	50	496	330	3,0	50	50	526	346	5,0
355	315	50	50	545	365	3,0	50	50	575	381	5,0
400	50	50	40	171	100	3,0	50	40	201	100	6,0
400	63	50	40	189	113	3,0	50	40	219	113	6,0
400	75	50	40	206	125	3,0	50	40	236	142	6,0
400	90	50	40	227	140	3,0	50	40	257	157	6,0
400	110	50	40	256	160	3,0	50	40	286	171	6,0
400	125	50	40	277	175	3,0	50	40	307	191	6,0
400	140	50	40	298	190	3,0	50	40	328	206	6,0
400	160	50	40	326	210	3,0	50	40	356	221	6,0
400	180	50	40	355	230	3,0	50	40	385	246	6,0
400	200	50	40	383	250	3,0	50	40	413	261	6,0
400	225	50	40	418	275	3,0	50	40	448	291	6,0
400	250	50	40	454	300	3,0	50	40	484	311	6,0
400	280	50	50	496	330	3,0	50	50	526	346	6,0
400	315	50	50	545	365	3,0	50	50	575	381	6,0
400	355	50	50	602	405	3,0	50	50	632	420	6,0
450	50	50	40	92	60	3,6	50	40	92	60	5,0
450	63	50	40	115	76	3,6	50	40	115	76	5,0
450	75	50	40	138	90	3,6	50	40	138	90	5,0
450	90	50	40	164	108	3,6	50	40	164	108	5,0
450	110	50	40	200	132	3,6	50	40	200	132	5,0
450	125	50	40	228	150	3,6	50	40	228	150	5,0
450	140	50	40	254	168	3,6	50	40	254	168	5,0
450	160	50	40	292	192	3,6	50	40	292	192	5,0
450	180	50	40	328	216	3,6	50	40	328	216	5,0
450	200	50	40	364	240	3,6	50	40	364	240	5,0
450	225	50	40	410	270	3,6	50	40	410	270	5,0
450	250	50	40	454	300	3,6	50	40	454	300	5,0
450	280	50	50	508	336	3,6	50	50	508	336	5,0
450	315	50	50	574	378	3,6	50	50	574	378	5,0
450	355	50	50	646	426	3,6	50	50	646	426	5,0
450	400	50	50	726	480	3,6	50	50	726	480	5,0
500	50	50	40	92	60	3,6	50	40	92	60	5,0
500	63	50	40	115	76	5,0	50	40	115	76	5,0
500	75	50	40	138	90	5,0	50	40	138	90	5,0
500	90	50	40	164	108	5,0	50	40	164	108	5,0
500	110	50	40	200	132	5,0	50	40	200	132	5,0
500	125	50	40	228	150	5,0	50	40	228	150	5,0
500	140	50	40	254	168	5,0	50	40	254	168	5,0
500	160	50	40	292	192	5,0	50	40	292	192	5,0
500	180	50	40	328	216	5,0	50	40	328	216	5,0
500	200	50	40	364	240	5,0	50	40	364	240	5,0

500	225	50	40	410	270	5,0	50	40	410	270	5,0
500	250	50	40	454	300	5,0	50	40	454	300	5,0
500	280	50	50	508	336	5,0	50	50	508	336	5,0
500	315	50	50	574	378	5,0	50	50	574	378	5,0
500	355	50	50	646	426	5,0	50	50	646	426	5,0
500	400	50	50	726	480	5,0	50	50	726	480	5,0
500	450	50	50	818	540	5,0	50	50	818	540	5,0
560	50	-	-	-	-	-	60	40	92	60	6,0
560	63	-	-	-	-	-	60	40	115	76	6,0
560	75	-	-	-	-	-	60	40	138	90	6,0
560	90	-	-	-	-	-	60	40	164	108	6,0
560	110	-	-	-	-	-	60	40	200	132	6,0
560	125	-	-	-	-	-	60	40	228	150	6,0
560	140	-	-	-	-	-	60	40	254	168	6,0
560	160	-	-	-	-	-	60	40	292	192	6,0
560	180	-	-	-	-	-	60	40	328	216	6,0
560	200	-	-	-	-	-	60	40	364	240	6,0
560	225	-	-	-	-	-	60	40	410	270	6,0
560	250	-	-	-	-	-	60	40	454	300	6,0
560	280	-	-	-	-	-	60	50	508	336	6,0
560	315	-	-	-	-	-	60	50	574	378	6,0
560	355	-	-	-	-	-	60	50	646	426	6,0
560	400	-	-	-	-	-	60	50	726	480	6,0
560	450	-	-	-	-	-	60	50	818	540	6,0
560	500	-	-	-	-	-	60	50	908	600	6,0
600	50	60	40	92	60	5,0	60	40	92	60	6,0
600	63	60	40	115	76	5,0	60	40	115	76	6,0
600	75	60	40	138	90	5,0	60	40	138	90	6,0
600	90	60	40	164	108	5,0	60	40	164	108	6,0
600	110	60	40	200	132	5,0	60	40	200	132	6,0
600	120	60	40	228	150	5,0	60	40	228	150	6,0
600	140	60	40	254	168	5,0	60	40	254	168	6,0
600	160	60	40	292	192	5,0	60	40	292	192	6,0
600	180	60	40	328	216	5,0	60	40	328	216	6,0
600	200	60	40	364	240	5,0	60	40	364	240	6,0
600	225	60	40	410	270	5,0	60	40	410	270	6,0
600	250	60	40	454	300	5,0	60	40	454	300	6,0
600	280	60	50	508	336	5,0	60	50	508	336	6,0
600	315	60	50	574	378	5,0	60	50	574	378	6,0
600	355	60	50	646	426	5,0	60	50	646	426	6,0
600	400	60	50	726	480	5,0	60	50	726	480	6,0
600	450	60	50	818	540	5,0	60	50	818	540	6,0
600	500	60	50	908	600	5,0	60	50	908	600	6,0
600	560	-	-	-	-	-	60	60	1016	672	6,0
630	50	-	-	-	-	-	70	40	92	60	6,0
630	63	-	-	-	-	-	70	40	115	76	6,0
630	75	-	-	-	-	-	70	40	138	90	6,0
630	90	-	-	-	-	-	70	40	164	108	6,0
630	110	-	-	-	-	-	70	40	200	132	6,0
630	125	-	-	-	-	-	70	40	228	150	6,0
630	140	-	-	-	-	-	70	40	254	168	6,0
630	160	-	-	-	-	-	70	40	292	192	6,0
630	180	-	-	-	-	-	70	40	328	216	6,0
630	200	-	-	-	-	-	70	40	364	240	6,0
630	225	-	-	-	-	-	70	40	410	270	6,0
630	250	-	-	-	-	-	70	40	454	300	6,0
630	280	-	-	-	-	-	70	50	508	336	6,0
630	315	-	-	-	-	-	70	50	574	378	6,0
630	355	-	-	-	-	-	70	50	646	426	6,0
630	400	-	-	-	-	-	70	50	726	480	6,0
630	450	-	-	-	-	-	70	50	818	540	6,0
630	500	-	-	-	-	-	70	50	908	600	6,0
630	560	-	-	-	-	-	70	60	1016	672	6,0
630	600	-	-	-	-	-	70	60	1090	720	6,0
700	50	70	40	92	60	6,0	70	40	92	60	6,0
700	63	70	40	115	76	6,0	70	40	115	76	6,0
700	75	70	40	138	90	6,0	70	40	138	90	6,0
700	90	70	40	164	108	6,0	70	40	164	108	6,0
700	110	70	40	200	132	6,0	70	40	200	132	6,0
700	125	70	40	228	150	6,0	70	40	228	150	6,0
700	140	70	40	254	168	6,0	70	40	254	168	6,0
700	160	70	40	292	192	6,0	70	40	292	192	6,0
700	180	70	40	328	216	6,0	70	40	328	216	6,0
700	200	70	40	364	240	6,0	70	40	364	240	6,0



700	225	70	40	410	270	6,0	70	40	410	270	6,0
700	250	70	40	454	300	6,0	70	40	454	300	6,0
700	280	70	50	508	336	6,0	70	50	508	336	6,0
700	315	70	50	574	378	6,0	70	50	574	378	6,0
700	355	70	50	646	426	6,0	70	50	646	426	6,0
700	400	70	50	726	480	6,0	70	50	726	480	6,0
700	450	70	50	818	540	6,0	70	50	818	540	6,0
700	500	70	50	908	600	6,0	70	50	908	600	6,0
700	560	-	-	-	-	-	70	60	1016	672	6,0
700	600	70	60	1090	720	6,0	70	60	1090	720	6,0
700	630	-	-	-	-	-	70	70	1144	756	6,0
710	50	-	-	-	-	-	80	40	92	60	6,0
710	63	-	-	-	-	-	80	40	115	76	6,0
710	75	-	-	-	-	-	80	40	138	90	6,0
710	90	-	-	-	-	-	80	40	164	108	6,0
710	110	-	-	-	-	-	80	40	200	132	6,0
710	125	-	-	-	-	-	80	40	228	150	6,0
710	140	-	-	-	-	-	80	40	254	168	6,0
710	160	-	-	-	-	-	80	40	292	192	6,0
710	180	-	-	-	-	-	80	40	328	216	6,0
710	200	-	-	-	-	-	80	40	364	240	6,0
710	225	-	-	-	-	-	80	40	410	270	6,0
710	250	-	-	-	-	-	80	40	454	300	6,0
710	280	-	-	-	-	-	80	50	508	336	6,0
710	315	-	-	-	-	-	80	50	574	378	6,0
710	355	-	-	-	-	-	80	50	646	426	6,0
710	400	-	-	-	-	-	80	50	726	480	6,0
710	450	-	-	-	-	-	80	50	818	540	6,0
710	500	-	-	-	-	-	80	50	908	600	6,0
710	560	-	-	-	-	-	80	60	1016	672	6,0
710	600	-	-	-	-	-	80	60	1090	720	6,0
710	630	-	-	-	-	-	80	60	1144	756	6,0
710	700	-	-	-	-	-	80	70	1270	840	6,0
800	50	80	40	92	60	8,0	80	40	92	60	8,0
800	63	80	40	115	76	8,0	80	40	115	76	8,0
800	75	80	40	138	90	8,0	80	40	138	90	8,0
800	90	80	40	164	108	8,0	80	40	164	108	8,0
800	110	80	40	200	132	8,0	80	40	200	132	8,0
800	125	80	40	228	150	8,0	80	40	228	150	8,0
800	140	80	40	254	168	8,0	80	40	254	168	8,0
800	160	80	40	292	192	8,0	80	40	292	192	8,0
800	180	80	40	328	216	8,0	80	40	328	216	8,0
800	200	80	40	364	240	8,0	80	40	364	240	8,0
800	225	80	40	410	270	8,0	80	40	410	270	8,0
800	250	80	40	454	300	8,0	80	40	454	300	8,0
800	280	80	50	508	336	8,0	80	50	508	336	8,0
800	315	80	50	574	378	8,0	80	50	574	378	8,0
800	355	80	50	646	426	8,0	80	50	646	426	8,0
800	400	80	50	726	480	8,0	80	50	726	480	8,0
800	450	80	50	818	540	8,0	80	50	818	540	8,0
800	500	80	50	908	600	8,0	80	50	908	600	8,0
800	560	-	-	1016	672	-	80	60	1016	672	8,0
800	600	80	60	1090	720	8,0	80	60	1090	720	8,0
800	630	-	-	1144	756	8,0	80	70	1144	756	8,0
800	700	80	70	1270	840	8,0	80	70	1270	840	8,0
800	710	-	-	1290	852	-	80	80	1290	852	8,0
900	50	90	40	92	60	8,0	90	40	92	60	8,0
900	63	90	40	115	76	8,0	90	40	115	76	8,0
900	75	90	40	138	90	8,0	90	40	138	90	8,0
900	90	90	40	164	108	8,0	90	40	164	108	8,0
900	110	90	40	200	132	8,0	90	40	200	132	8,0
900	125	90	40	228	150	8,0	90	40	228	150	8,0
900	140	90	40	254	168	8,0	90	40	254	168	8,0
900	160	90	40	292	192	8,0	90	40	292	192	8,0
900	180	90	40	328	216	8,0	90	40	328	216	8,0
900	200	90	40	364	240	8,0	90	40	364	240	8,0
900	225	90	40	410	270	8,0	90	40	410	270	8,0
900	250	90	40	454	300	8,0	90	40	454	300	8,0
900	280	90	50	508	336	8,0	90	50	508	336	8,0
900	315	90	50	574	378	8,0	90	50	574	378	8,0
900	355	90	50	646	426	8,0	90	50	646	426	8,0
900	400	90	50	726	480	8,0	90	50	726	480	8,0
900	450	90	50	818	540	8,0	90	50	818	540	8,0
900	500	90	50	908	600	8,0	90	50	908	600	8,0

900	560	-	-	1016	672	-	90	60	1016	672	8,0
900	600	90	60	1090	720	8,0	90	60	1090	720	8,0
900	630	-	-	1144	756	-	90	70	1144	756	8,0
900	700	90	70	1270	840	8,0	90	70	1270	840	8,0
900	710	-	-	1290	852	-	90	80	1290	852	8,0
900	800	90	80	1452	960	8,0	90	80	1452	960	8,0
1000	50	100	40	92	60	10,0	100	40	92	60	10,0
1000	63	100	40	115	76	10,0	100	40	115	76	10,0
1000	75	100	40	138	90	10,0	100	40	138	90	10,0
1000	90	100	40	164	108	10,0	100	40	164	108	10,0
1000	110	100	40	200	132	10,0	100	40	200	132	10,0
1000	125	100	40	228	150	10,0	100	40	228	150	10,0
1000	140	100	40	254	168	10,0	100	40	254	168	10,0
1000	160	100	40	292	192	10,0	100	40	292	192	10,0
1000	180	100	40	328	216	10,0	100	40	328	216	10,0
1000	200	100	40	364	240	10,0	100	40	364	240	10,0
1000	225	100	40	410	270	10,0	100	40	410	270	10,0
1000	250	100	40	454	300	10,0	100	40	454	300	10,0
1000	280	100	50	508	336	10,0	100	50	508	336	10,0
1000	315	100	50	574	378	10,0	100	50	574	378	10,0
1000	355	100	50	646	426	10,0	100	50	646	426	10,0
1000	400	100	50	726	480	10,0	100	50	726	480	10,0
1000	450	100	40	818	540	10,0	100	50	818	540	10,0
1000	500	100	50	908	600	10,0	100	50	908	600	10,0
1000	560	-	-	1016	672	-	100	60	1016	672	10,0
1000	600	100	60	1090	720	10,0	100	60	1090	720	10,0
1000	630	-	-	1144	756	-	100	70	1144	756	10,0
1000	700	100	70	1270	840	10,0	100	70	1270	840	10,0
1000	710	-	-	1290	852	-	100	80	1290	852	10,0
1000	800	100	80	1452	960	10,0	100	80	1452	960	10,0
1000	900	100	90	1634	1080	10,0	100	90	1634	1080	10,0
1200	50	120	40	92	60	12,0	120	40	92	60	12,0
1200	63	120	40	115	76	12,0	120	40	115	76	12,0
1200	75	120	40	138	90	12,0	120	40	138	90	12,0
1200	90	120	40	164	108	12,0	120	40	164	108	12,0
1200	110	120	40	200	132	12,0	120	40	200	132	12,0
1200	125	120	40	228	150	12,0	120	40	228	150	12,0
1200	140	120	40	254	168	12,0	120	40	254	168	12,0
1200	160	120	40	292	192	12,0	120	40	292	192	12,0
1200	180	120	40	328	216	12,0	120	40	328	216	12,0
1200	200	120	40	364	240	12,0	120	40	364	240	12,0
1200	225	120	40	410	270	12,0	120	40	410	270	12,0
1200	250	120	40	454	300	12,0	120	40	454	300	12,0
1200	280	120	50	508	336	12,0	120	50	508	336	12,0
1200	315	120	50	574	378	12,0	120	50	574	378	12,0
1200	355	120	50	646	426	12,0	120	50	646	426	12,0
1200	400	120	50	726	480	12,0	120	50	726	480	12,0
1200	450	120	40	818	540	12,0	120	50	818	540	12,0
1200	500	120	50	908	600	12,0	120	50	908	600	12,0
1200	560	-	-	1016	672	-	120	60	1016	672	12,0
1200	600	120	60	1090	720	12,0	120	60	1090	720	12,0
1200	630	-	-	1144	756	-	120	70	1144	756	12,0
1200	700	120	70	1270	840	12,0	120	70	1270	840	12,0
1200	710	-	-	1290	852	-	120	80	1290	852	12,0
1200	800	120	80	1452	960	12,0	120	80	1452	960	12,0
1200	900	120	90	1634	1080	12,0	120	90	1634	1080	12,0
1200	1000	120	100	1816	1200	12,0	120	100	1816	1200	12,0
1250	50	130	40	92	60	12,0	130	40	92	60	12,0
1250	63	130	40	115	76	12,0	130	40	115	76	12,0
1250	75	130	40	138	90	12,0	130	40	138	90	12,0
1250	90	130	40	164	108	12,0	130	40	164	108	12,0
1250	110	130	40	200	132	12,0	130	40	200	132	12,0
1250	125	130	40	228	150	12,0	130	40	228	150	12,0
1250	140	130	40	254	168	12,0	130	40	254	168	12,0
1250	160	130	40	292	192	12,0	130	40	292	192	12,0
1250	180	130	40	328	216	12,0	130	40	328	216	12,0
1250	200	130	40	364	240	12,0	130	40	364	240	12,0
1250	225	130	40	410	270	12,0	130	40	410	270	12,0
1250	250	130	40	454	300	12,0	130	40	454	300	12,0
1250	280	130	50	508	336	12,0	130	50	508	336	12,0
1250	315	130	50	574	378	12,0	130	50	574	378	12,0
1250	355	130	50	646	426	12,0	130	50	646	426	12,0
1250	400	130	50	726	480	12,0	130	50	726	480	12,0
1250	450	130	50	818	540	12,0	130	50	818	540	12,0

1250	500	130	50	908	600	12,0	130	50	908	600	12,0
1250	560	-	-	-	-	-	130	60	1016	672	12,0
1250	600	130	60	1090	720	12,0	130	60	1090	720	12,0
1250	630	-	-	-	-	-	130	70	1144	756	12,0
1250	700	130	70	1270	840	12,0	130	70	1270	840	12,0
1250	710	-	-	-	-	-	130	80	1290	852	12,0
1250	800	130	80	1452	960	12,0	130	80	1452	960	12,0
1250	900	130	90	1634	1080	12,0	130	90	1634	1080	12,0
1250	1000	130	100	1816	1200	12,0	130	100	1816	1200	12,0
1250	1200	130	120	2178	1440	12	130	120	2178	1440	12,0

	PVC			PE-HD/PP-H/PPs/PP-EL-s/PVDF		
Ø	L	L1	s	L	L1	s
50	40	105	2,5	40	105	3,0
63	40	105	2,5	40	105	3,0
75	40	105	2,5	40	105	3,0
90	40	105	2,5	40	105	3,0
110	40	105	2,5	40	105	3,0
125	40	105	2,5	40	105	3,0
140	40	105	2,5	40	105	3,0
160	40	105	2,5	40	105	3,0
180	40	105	2,5	40	105	3,0
200	40	110	2,5	40	110	3,0
225	40	110	2,5	40	110	3,5
250	40	110	2,5	40	110	3,5
280	50	130	2,5	50	130	3,5
315	50	130	2,5	50	130	4,0
355	50	130	3,0	50	130	4,0
400	50	130	3,0	50	130	4,5
450	55	120	5,0	55	120	5,0
500	55	120	5,0	55	120	5,0
560	-	-	-	55	120	6,0
600	55	120	6,0	55	120	6,0
630	-	-	-	55	120	6,0
700	70	150	6,0	70	150	6,0
710	-	-	-	80	170	6,0
800	80	170	8,0	80	170	8,0
900	90	190	8,0	90	190	8,0
1000	100	210	10,0	100	210	10,0
1200	120	250	12,0	120	250	12,0
1250	130	270	12,0	130	270	12,0

* ohne Mittelsteg

* without middle bar

* Sans arrêt centrale

		PVC				PE-HD/PP-H/PPs/PP-EL-s/PVDF			
Ø 1	Ø 2	H	L1	L2	min. S	H	L1	L2	min. S
50	75	40	40	40	2,5	40	40	40	2,5
50	90	60	40	40	2,5	60	40	40	2,5
50	110	100	40	40	2,5	100	40	40	2,5
63	75	40	40	40	2,5	40	40	40	2,5
63	90	60	40	40	2,5	60	40	40	2,5
63	110	100	40	40	2,5	100	40	40	2,5
75	90	40	40	40	2,5	40	40	40	2,5
75	110	80	40	40	2,5	80	40	40	2,5
75	125	120	40	40	2,5	120	40	40	2,5
90	110	60	40	40	2,5	60	40	40	2,5
90	125	100	40	40	2,5	100	40	40	2,5
110	125	40	40	40	2,5	40	40	40	2,5
110	140	80	40	40	2,5	80	40	40	2,5
110	160	140	40	40	2,5	140	40	40	2,5
110	180	50	40	40	2,5	50	40	40	2,5
110	200	65	40	40	2,5	65	40	40	2,5
125	140	40	40	40	2,5	40	40	40	2,5
125	160	100	40	40	2,5	100	40	40	2,5
125	180	40	40	40	2,5	40	40	40	2,5
125	200	55	40	40	2,5	55	40	40	2,5
125	225	65	40	40	2,5	65	40	40	2,5
125	250	90	40	40	2,5	90	40	40	2,5
140	160	60	40	40	2,5	60	40	40	2,5
140	180	30	40	40	2,5	30	40	40	2,5
140	200	45	40	40	2,5	45	40	40	2,5
140	225	60	40	40	2,5	60	40	40	2,5
140	250	80	40	40	2,5	80	40	40	2,5
160	180	60	40	40	2,5	60	40	40	2,5
160	200	120	40	40	2,5	120	40	40	2,5
160	225	100	40	40	2,5	100	40	40	2,5
160	250	120	40	40	2,5	120	40	40	2,5
160	280	85	40	50	2,5	85	40	50	2,5
160	315	115	40	50	2,5	115	40	50	2,5
180	200	75	40	40	2,5	75	40	40	2,5
180	225	85	40	40	2,5	85	40	40	2,5
180	250	100	40	40	2,5	100	40	40	2,5
180	280	65	40	50	2,5	65	40	50	2,5
180	315	100	40	50	2,5	100	40	50	2,5
200	225	80	40	40	2,5	80	40	40	2,5
200	250	140	40	40	2,5	140	40	40	2,5
200	280	105	40	50	2,5	105	40	50	2,5
200	315	160	40	50	2,5	160	40	50	2,5
200	355	115	40	50	2,5	115	40	50	2,5
200	400	147	40	50	2,5	147	40	50	2,5
225	250	80	40	40	2,5	80	40	40	2,5
225	280	40	40	50	2,5	40	40	50	2,5
225	315	65	40	50	2,5	65	40	50	2,5
225	355	95	40	50	2,5	95	40	50	2,5
225	400	125	40	50	2,5	125	40	50	2,5
250	280	35	40	50	2,5	35	40	50	2,5
250	315	100	40	50	2,5	100	40	50	2,5
250	355	140	40	50	2,5	140	40	50	2,5
250	400	105	40	50	2,5	105	40	50	2,5
250	450	145	40	50	2,5	145	40	50	2,5
280	315	100	50	50	2,5	100	50	50	2,5
280	355	65	50	50	2,5	65	50	50	2,5
280	400	90	50	50	2,5	90	50	50	2,5
280	450	120	50	50	2,5	120	50	50	2,5
280	500	160	50	50	2,5	160	50	50	2,5

315	355	120	50	50	2,5	120	50	50	2,5
315	400	120	50	50	2,5	120	50	50	2,5
315	450	95	50	50	2,5	95	50	50	2,5
315	500	135	50	50	2,5	135	50	50	2,5
355	400	135	50	50	3	135	50	50	3
355	450	75	50	50	3	75	50	50	3
355	500	110	50	50	3	110	50	50	3
355	560	180	50	60	3	180	50	60	3
355	600	215	50	60	3	215	50	60	3
355	630	240	50	60	3	240	50	60	3
355	700	300	50	70	3	300	50	70	3
355	710	310	50	70	3	310	50	70	3
355	800	385	50	80	3	385	50	80	3
355	900	475	50	90	3	475	50	90	3
355	1000	560	50	100	3	560	50	100	3
400	450	45	50	50	3	45	50	50	3
400	500	80	50	50	3	80	50	50	3
400	560	140	50	60	3	140	50	60	3
400	600	175	50	60	3	175	50	60	3
400	630	205	50	60	3	205	50	60	3
400	700	265	50	70	3	265	50	70	3
400	710	270	50	70	3	270	50	70	3
400	800	350	50	80	3	350	50	80	3
400	900	435	50	90	3	435	50	90	3
400	1000	520	50	100	3	520	50	100	3
450	500	45	50	50	5	45	50	50	5
450	560	100	50	60	5	100	50	60	5
450	600	130	50	60	5	130	50	60	5
450	630	160	50	60	5	160	50	60	5
450	700	220	50	70	5	220	50	70	5
450	710	230	50	70	5	230	50	70	5
450	800	305	50	80	5	305	50	80	5
450	900	395	50	90	5	395	50	90	5
450	1000	480	50	100	5	480	50	100	5
500	560	55	50	60	5	55	50	60	5
500	600	90	50	60	5	90	50	60	5
500	630	115	50	60	5	115	50	60	5
500	700	175	50	70	5	175	50	70	5
500	710	185	50	70	5	185	50	70	5
500	800	265	50	80	5	265	50	80	5
500	900	350	50	90	5	350	50	90	5
500	1000	435	50	100	5	435	50	100	5
560	600	40	60	60	6	40	60	60	6
560	630	65	60	60	6	65	60	60	6
560	700	125	60	70	6	125	60	70	6
560	710	135	60	70	6	135	60	70	6
560	800	215	60	80	6	215	60	80	6
560	900	300	60	90	6	300	60	90	6
560	1000	385	60	100	6	385	60	100	6
600	630	30	60	60	6	30	60	60	6
600	700	90	60	70	6	90	60	70	6
600	710	100	60	70	6	100	60	70	6
600	800	180	60	80	6	180	60	80	6
600	900	265	60	90	6	265	60	90	6
600	1000	350	60	100	6	350	60	100	6
600	1200	525	60	120	6	525	60	120	6
600	1250	570	60	130	6	570	60	130	6
630	700	65	60	70	6	65	60	70	6
630	710	75	60	70	6	75	60	70	6
630	800	155	60	80	6	155	60	80	6
630	900	240	60	90	6	240	60	90	6
630	1000	325	60	100	6	325	60	100	6

630	1200	500	60	120	6	500	60	120	6
630	1250	540	60	130	6	540	60	130	6
700	710	15	70	70	6	15	70	70	6
700	800	90	70	80	6	90	70	80	6
700	900	180	70	90	6	180	70	90	6
700	1000	265	70	100	6	265	70	100	6
700	1200	440	70	120	6	440	70	120	6
700	1250	480	70	130	6	480	70	130	6
710	800	85	70	80	8	85	70	80	8
710	900	170	70	90	8	170	70	90	8
710	1000	255	70	100	8	255	70	100	8
710	1200	430	70	120	8	430	70	120	8
710	1250	475	70	130	8	475	70	130	8
800	900	90	80	90	8	90	80	90	8
800	1000	180	80	100	8	180	80	100	8
800	1200	350	80	120	8	350	80	120	8
800	1250	395	80	130	8	395	80	130	8
900	1000	90	90	100	8	90	90	100	8
900	1200	265	90	120	8	265	90	120	8
900	1250	310	90	130	8	310	90	130	8
1000	1200	180	100	120	10	180	100	120	10
1000	1250	220	100	130	10	220	100	130	10
1200	1250	50	130	130	10	50	130	130	10

		PVC				PE-HD/PP-H/PPs/PP-EL-s/PVDF			
Ø 1	Ø 2	L	L1	L2	min. s	L	L1	L2	min. s
75	90	100	40	40	3,0	100	40	40	3,0
75	110	100	40	40	3,0	100	40	40	3,0
75	125	100	40	40	3,0	100	40	40	3,0
90	110	100	40	40	3,0	100	40	40	3,0
90	125	100	40	40	3,0	100	40	40	3,0
110	125	100	40	40	3,0	100	40	40	3,0
110	140	100	40	40	3,0	100	40	40	3,0
110	160	100	40	40	3,0	100	40	40	3,0
110	180	100	40	40	3,0	100	40	40	3,0
110	200	100	40	40	3,0	100	40	40	3,0
125	140	100	40	40	3,0	100	40	40	3,0
125	160	100	40	40	3,0	100	40	40	3,0
125	180	100	40	40	3,0	100	40	40	3,0
125	200	100	40	40	3,0	100	40	40	3,0
125	225	100	40	40	3,0	100	40	40	3,0
125	250	125	40	40	3,0	125	40	40	3,0
140	160	100	40	40	4,0	100	40	40	4,0
140	180	100	40	40	4,0	100	40	40	4,0
140	200	100	40	40	4,0	100	40	40	4,0
140	225	100	40	40	4,0	100	40	40	4,0
140	250	125	40	40	4,0	125	40	40	4,0
160	180	100	40	40	4,0	100	40	40	4,0
160	200	100	40	40	4,0	100	40	40	4,0
160	225	100	40	40	4,0	100	40	40	4,0
160	250	125	40	40	4,0	125	40	40	4,0
160	280	125	40	50	4,0	125	40	50	4,0
160	315	175	40	50	4,0	175	40	50	4,0
160	355	200	40	50	4,0	200	40	50	4,0
180	200	100	40	40	4,0	100	40	40	4,0
180	225	100	40	40	4,0	100	40	40	4,0
180	250	125	40	40	4,0	125	40	40	4,0
180	280	125	40	50	4,0	125	40	50	4,0
180	315	150	40	50	4,0	150	40	50	4,0
180	355	175	40	50	4,0	175	40	50	4,0
180	400	250	40	50	4,0	250	40	50	4,0
200	225	100	40	40	4,0	100	40	40	4,0
200	250	125	40	40	4,0	125	40	40	4,0
200	280	125	40	50	4,0	125	40	50	4,0
200	315	150	40	50	4,0	150	40	50	4,0
200	355	175	40	50	4,0	175	40	50	4,0
200	400	200	40	50	4,0	200	40	50	4,0
225	250	125	40	40	4,0	125	40	40	4,0
225	280	125	40	50	4,0	125	40	50	4,0
225	315	125	40	50	4,0	125	40	50	4,0
225	355	150	40	50	4,0	150	40	50	4,0
225	400	175	40	50	4,0	175	40	50	4,0
225	450	225	40	50	4,0	225	40	50	4,0
250	280	125	40	50	4,0	125	40	50	4,0
250	315	150	40	50	4,0	150	40	50	4,0
250	355	150	40	50	4,0	150	40	50	4,0
250	400	150	40	50	4,0	150	40	50	4,0
250	450	200	40	50	4,0	200	40	50	4,0
280	315	150	50	50	4,0	150	50	50	4,0
280	355	150	50	50	4,0	150	50	50	4,0
280	400	175	50	50	4,0	175	50	50	4,0
280	450	200	50	50	4,0	200	50	50	4,0
280	500	250	50	50	4,0	250	50	50	4,0
315	355	150	50	50	4,0	150	50	50	4,0
315	400	175	50	50	4,0	175	50	50	4,0

315	450	175	50	50	4,0	175	50	50	4,0
315	500	200	50	50	4,0	200	50	50	4,0
355	400	175	50	50	4,0	175	50	50	4,0
355	450	175	50	50	4,0	175	50	50	4,0
355	500	175	50	50	4,0	175	50	50	4,0
355	560	-	-	-	-	225	50	60	4,0
355	600	250	50	60	5,0	250	50	60	5,0
355	630	-	-	-	-	300	50	70	5,0
355	700	350	50	70	5,0	350	50	70	5,0
355	710	-	-	-	-	375	50	80	5,0
355	800	450	50	80	5,0	450	50	80	5,0
355	900	550	50	90	5,0	550	50	90	5,0
355	1000	650	50	100	5,0	650	50	100	5,0
400	450	175	50	50	4,0	175	50	50	4,0
400	500	175	50	50	4,0	175	50	50	4,0
400	560	-	-	-	-	200	50	60	4,0
400	600	200	50	60	4,0	200	50	60	4,0
400	630	-	-	-	-	250	50	70	5,0
400	700	300	50	70	5,0	300	50	70	5,0
400	710	-	-	-	-	325	50	80	5,0
400	800	400	50	80	6,0	400	50	80	6,0
400	900	500	50	90	6,0	500	50	90	6,0
400	1000	600	50	100	6,0	600	50	100	6,0
450	500	175	50	50	4,0	175	50	50	5,0
450	560	-	-	-	-	175	50	60	5,0
450	600	175	50	60	5,0	175	50	60	5,0
450	630	-	-	-	-	200	50	70	5,0
450	700	250	50	70	5,0	250	50	70	5,0
450	710	-	-	-	-	275	50	80	6,0
450	800	350	50	80	6,0	350	50	80	6,0
450	900	450	50	90	6,0	450	50	90	6,0
450	1000	550	50	100	6,0	550	50	100	6,0
500	560	-	-	-	-	175	50	60	6,0
500	600	175	50	60	5,0	175	50	60	6,0
500	630	-	-	-	-	175	50	60	6,0
500	700	200	50	70	6,0	200	50	70	6,0
500	710	-	-	-	-	225	50	80	6,0
500	800	300	50	80	6,0	300	50	80	6,0
500	900	400	50	90	6,0	400	50	90	6,0
500	1000	500	50	100	6,0	500	50	100	6,0
560	600	-	-	-	-	175	60	60	6,0
560	630	-	-	-	-	175	60	70	6,0
560	700	-	-	-	-	175	60	70	6,0
560	710	-	-	-	-	175	60	80	6,0
560	800	-	-	-	-	250	60	80	6,0
560	900	-	-	-	-	350	60	90	6,0
560	1000	-	-	-	-	450	60	100	6,0
600	630	-	-	-	-	100	60	70	6,0
600	700	200	60	70	6,0	200	60	70	6,0
600	710	-	-	-	-	200	60	80	6,0
600	800	200	60	80	6,0	200	60	80	6,0
600	900	300	60	90	6,0	300	60	90	6,0
600	1000	400	60	100	8,0	400	60	100	8,0
600	1200	600	60	120	8,0	600	60	120	8,0
600	1250	650	60	120	8,0	650	60	120	8,0
630	700	-	-	-	-	200	70	70	6,0
630	710	-	-	-	-	200	70	80	6,0
630	800	-	-	-	-	200	70	80	6,0
630	900	-	-	-	-	300	70	90	6,0
630	1000	-	-	-	-	400	70	100	8,0
630	1200	-	-	-	-	600	70	120	8,0
630	1250	-	-	-	-	650	70	130	8,0

700	710	-	-	-	-	100	70	80	8,0
700	800	200	70	80	8,0	200	70	80	8,0
700	900	200	70	90	8,0	200	70	90	8,0
700	1000	300	70	100	8,0	300	70	100	8,0
700	1200	500	70	120	8,0	500	70	120	8,0
700	1250	550	70	130	8,0	550	70	130	8,0
710	800	-	-	-	-	200	80	80	8,0
710	900	-	-	-	-	200	80	90	8,0
710	1000	-	-	-	-	300	80	100	8,0
710	1200	-	-	-	-	500	80	120	8,0
710	1250	-	-	-	-	550	80	130	8,0
800	900	200	80	90	8,0	200	80	90	8,0
800	1000	200	80	100	8,0	200	80	100	8,0
800	1200	400	80	120	8,0	400	80	120	8,0
800	1250	450	80	130	8,0	450	80	130	8,0
900	1000	200	90	100	8,0	200	90	100	8,0
900	1200	300	90	120	8,0	300	90	120	8,0
900	1250	350	90	130	8,0	350	90	130	8,0
1000	1200	200	100	120	10,0	200	100	120	10,0
1000	1250	250	100	130	10,0	250	100	130	10,0
1200	1250	200	120	130	10,0	200	120	130	10,0

PVC					PE-HD/PP-H/PPs/PP-EL-s/PVDF			
Ø	Ltotal	L	L1	s	Ltotal	L	L1	s
50	150	35	60	3,0	150	35	60	3,0
63	150	35	60	3,0	150	35	60	3,0
75	130	35	60	3,0	130	35	60	3,0
90	130	35	60	3,0	130	35	60	3,0
110	155	40	75	3,0	155	40	75	3,0
125	150	40	70	3,0	150	40	70	3,0
140	150	40	70	3,0	150	40	70	3,0
160	150	40	70	3,0	150	40	70	4,0
180	170	50	70	3,0	170	50	70	4,0
200	170	50	70	3,0	170	50	70	4,0
225	170	50	70	3,0	170	50	70	4,0
250	170	50	70	3,0	170	50	70	4,0
280	170	50	70	3,0	170	50	70	4,0
315	170	50	70	3,0	170	50	70	4,0
355	175	50	75	4,0	175	50	75	4,0
400	180	50	80	4,0	180	50	80	4,0
450	440	60	320	3,6	440	60	320	5,0
500	480	60	360	4,0	480	60	360	5,0
560	-	-	-	-	-	70	410	6,0
600	590	70	450	5,0	590	70	450	6,0
630	-	-	-	-	-	70	480	6,0
700	660	70	520	6,0	660	70	520	8,0
710	-	-	-	-	-	80	530	8,0
800	720	80	560	8,0	720	80	560	8,0
900	830	90	650	8,0	830	90	650	10,0
1000	940	100	740	10,0	940	100	740	10,0
1200	1200	120	960	12,0	1200	120	960	12,0
1250	1220	130	960	12,0	1220	130	960	12,0

	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	
Ø	L	s	L	s
75	188	3,0	188	3,0
90	188	3,0	188	3,0
110	215	3,0	215	3,0
125	210	3,0	210	3,0
140	210	3,0	210	3,0
160	210	3,0	210	4,0
180	230	3,0	230	4,0
200	230	3,0	230	4,0
225	230	3,0	230	4,0
250	230	3,0	230	4,0
280	230	3,0	230	4,0
315	230	3,0	230	4,0
355	235	4,0	235	4,0
400	240	4,0	260	4,0
450	378	3,6	378	5,0
500	418	4,0	418	5,0
560	-	-	418	6,0
600	458	5,0	458	6,0
630	-	-	488	6,0
700	528	6,0	528	8,0
710	-	-	538	8,0
800	568	8,0	568	8,0
900	658	8,0	658	10,0
1000	748	10,0	748	10,0
1200	968	12,0	968	12,0
1250	968	12,0	968	12,0

PVC					PE-HD/PP-H/PPs/PP-EL-s/PVDF			
Ø	Ltotal	L	L1	s	Ltotal	L	L1	s
50	150	35	60	3,0	150	35	60	3,0
63	150	35	60	3,0	150	35	60	3,0
75	130	35	60	3,0	130	35	60	3,0
90	130	35	60	3,0	130	35	60	3,0
110	155	40	75	3,0	155	40	75	3,0
125	150	40	70	3,0	150	40	70	3,0
140	150	40	70	3,0	150	40	70	3,0
160	150	40	70	3,0	150	40	70	4,0
180	170	50	70	3,0	170	50	70	4,0
200	170	50	70	3,0	170	50	70	4,0
225	170	50	70	3,0	170	50	70	4,0
250	170	50	70	3,0	170	50	70	4,0
280	170	50	70	3,0	170	50	70	4,0
315	170	50	70	3,0	170	50	70	4,0
355	175	50	75	4,0	175	50	75	4,0
400	180	50	80	4,0	180	50	80	4,0

Ø	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	
	L	s	L	s
75	188	3,0	188	3,0
90	188	3,0	188	3,0
110	215	3,0	215	3,0
125	210	3,0	210	3,0
140	210	3,0	210	3,0
160	210	3,0	210	4,0
180	230	3,0	230	4,0
200	230	3,0	230	4,0
225	230	3,0	230	4,0
250	230	3,0	230	4,0
280	230	3,0	230	4,0
315	230	3,0	230	4,0
355	235	4,0	235	4,0
400	240	4,0	260	4,0

PVC					PE-HD/PP-H/PPs/PP-EL-s/PVDF			
Ø	Ltotal	L	L1	s	Ltotal	L	L1	s
50	150	35	60	3,0	150	35	60	3,0
63	150	35	60	3,0	150	35	60	3,0
75	130	35	60	3,0	130	35	60	3,0
90	130	35	60	3,0	130	35	60	3,0
110	155	40	75	3,0	155	40	75	3,0
125	150	40	70	3,0	150	40	70	3,0
140	150	40	70	3,0	150	40	70	3,0
160	150	40	70	3,0	150	40	70	4,0
180	170	50	70	3,0	170	50	70	4,0
200	170	50	70	3,0	170	50	70	4,0
225	170	50	70	3,0	170	50	70	4,0
250	170	50	70	3,0	170	50	70	4,0
280	170	50	70	3,0	170	50	70	4,0
315	170	50	70	3,0	170	50	70	4,0
355	175	50	75	4,0	175	50	75	4,0
400	180	50	80	4,0	180	50	80	4,0

Ø	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	
	L	min. s	L	min. s
75	188	3,0	188	3,0
90	188	3,0	188	3,0
110	215	3,0	215	3,0
125	210	3,0	210	3,0
140	210	3,0	210	3,0
160	210	3,0	210	4,0
180	230	3,0	230	4,0
200	230	3,0	230	4,0
225	230	3,0	230	4,0
250	230	3,0	230	4,0
280	230	3,0	230	4,0
315	230	3,0	230	4,0
355	235	4,0	235	4,0
400	240	4,0	260	4,0

Ø	PVC			PE-HD/PP-H/PPs/PP-EL-s/PVDF		
	L	L1	s	L	L1	s
450	60	320	3,6	60	320	5,0
500	60	360	4,0	60	360	5,0
560	-	-	-	70	410	6,0
600	70	450	5,0	70	450	6,0
630	-	-	-	70	480	6,0
700	70	520	6,0	70	520	8,0
710	-	-	-	80	530	8,0
800	80	560	8,0	80	560	8,0
900	90	650	8,0	90	650	10,0
1000	100	740	10,0	100	740	10,0
1200	120	960	12,0	120	960	12,0
1250	130	960	12,0	130	960	12,0

Ø	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	
	L	min. s	L	min. s
450	378	3,6	378	5,0
500	418	4,0	418	5,0
560	-	-	418	6,0
600	458	5,0	458	6,0
630	-	-	488	6,0
700	528	6,0	528	8,0
710	-	-	538	8,0
800	568	8,0	568	8,0
900	658	8,0	658	10,0
1000	748	10,0	748	10,0
1200	968	12,0	968	12,0
1250	968	12,0	968	12,0

Ø	PVC			PE-HD/PP-H/PPs/PP-EL-s/PVDF		
	L	L1	s	L	L1	s
75	40	40	2,5	40	40	3,0
90	40	40	2,5	40	40	3,0
110	40	40	2,5	40	40	3,0
125	40	40	2,5	40	40	3,0
140	40	40	2,5	40	40	3,0
160	40	40	2,5	40	40	3,0
180	40	40	2,5	40	40	3,5
200	40	40	2,5	40	40	3,5
225	40	40	2,5	40	40	3,5
250	31	58	2,5	26	68	3,5
280	41	58	2,5	36	68	3,5
315	40	60	2,5	36	68	4,0
355	41	58	3,0	38	64	4,0
400	41	58	3,0	38	64	4,5

	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	
Ø	L	s	L	s
75	180	2,5	180	3,0
90	180	2,5	180	3,0
110	180	2,5	180	3,0
125	180	2,5	180	3,0
140	180	2,5	180	3,0
160	180	2,5	180	3,0
180	180	2,5	180	3,5
200	180	2,5	180	3,5
225	180	2,5	180	3,5
250	180	2,5	180	3,5
280	200	2,5	200	3,5
315	200	2,5	200	4,0
355	200	3,0	200	4,0
400	200	3,0	200	4,5

Ø	PVC					PE-HD/PP-H/PPs/PP-EL-s/PVDF				
	L	L1	A	C	s	L	L1	A	C	s
75	35	60	180	92	2,5	35	60	180	92	3,0
90	35	60	180	92	2,5	35	60	180	92	3,0
110	40	75	180	92	2,5	40	75	180	92	3,0
125	40	70	180	92	2,5	40	70	180	92	3,0
140	40	70	180	92	2,5	40	70	180	92	3,0
160	40	70	180	92	2,5	40	70	180	92	3,0
180	50	70	180	92	2,5	50	70	180	92	3,5
200	50	70	180	92	2,5	50	70	180	92	3,5
225	50	70	180	92	2,5	50	70	180	92	3,5
250	50	70	180	92	2,5	50	70	180	92	3,5
280	50	70	180	92	2,5	50	70	180	92	3,5
315	50	70	180	92	2,5	50	70	180	92	4,0
355	50	75	180	92	3,0	50	75	180	92	5,0
400	50	80	180	92	3,0	50	80	180	92	5,0
450	60	320	-	-	3,6	60	320	-	-	6,0
500	60	360	-	-	4,0	60	360	-	-	6,0
560	-	-	-	-	-	70	410	-	-	6,0
600	70	450	-	-	5,0	70	450	-	-	8,0
630	-	-	-	-	-	70	480	-	-	8,0
700	70	520	-	-	6,0	70	520	-	-	8,0
710	-	-	-	-	-	80	530	-	-	8,0
800	80	560	-	-	8,0	80	560	-	-	8,0
900	90	650	-	-	8,0	90	650	-	-	10,0
1000	100	740	-	-	10,0	100	740	-	-	10,0
1200	120	960	-	-	12,0	120	960	-	-	12,0
1250	130	960	-	-	12,0	130	960	-	-	12,0

Ø	PVC				PE-HD/PP-H/PPs/PP-EL-s/PVDF			
	L	A	C	s	L	A	C	s
75	188	180	92	2,5	188	180	92	3,0
90	188	180	92	2,5	188	180	92	3,0
110	215	180	92	2,5	215	180	92	3,0
125	210	180	92	2,5	210	180	92	3,0
140	210	180	92	2,5	210	180	92	3,0
160	210	180	92	2,5	210	180	92	3,0
180	230	180	92	2,5	230	180	92	3,5
200	230	180	92	2,5	230	180	92	3,5
225	230	180	92	2,5	230	180	92	3,5
250	230	180	92	2,5	230	180	92	3,5
280	230	180	92	2,5	230	180	92	3,5
315	230	180	92	2,5	230	180	92	4,0
355	235	180	92	3,0	235	180	92	4,0
400	240	180	92	3,0	260	180	92	4,5
450	378	-	-	3,6	378	-	-	5,0
500	418	-	-	4,0	418	-	-	5,0
560	-	-	-	-	418	-	-	6,0
600	458	-	-	5,0	458	-	-	6,0
630	-	-	-	-	488	-	-	6,0
700	528	-	-	6,0	528	-	-	8,0
710	-	-	-	-	538	-	-	8,0
800	568	-	-	8,0	568	-	-	8,0
900	658	-	-	8,0	658	-	-	10,0
1000	748	-	-	10,0	748	-	-	10,0
1200	968	-	-	12,0	968	-	-	12,0
1250	968	-	-	12,0	968	-	-	12,0

Ø	PVC				PE-HD/PP-H/PPs/PP-EL-s/PVDF			
	L	L1	L2	s	L	L1	L2	s
75	40	244	35	2,5	40	247	40	3,0
90	40	244	35	2,5	40	247	40	3,0
110	40	244	35	2,5	40	247	40	3,0
125	40	244	35	2,5	40	247	40	3,0
140	40	244	35	2,5	40	247	40	3,0
160	40	273	35	2,5	40	276	40	3,0
180	40	273	35	2,5	40	276	40	3,5
200	40	273	35	2,5	40	276	40	3,5
225	50	306	35	2,5	50	300	40	3,5
250	31	315	35	2,5	26	314	40	3,5
280	41	315	45	2,5	36	314	50	3,5
315	40	316	45	2,5	36	314	50	4,0
355	41	329	45	3,0	38	332	50	5,0
400	41	329	45	3,0	38	372	50	5,0
450	60	320	60	3,6	60	320	60	6,0
500	60	360	60	4,0	60	360	60	6,0
560	-	-	-	-	70	410	70	6,0
600	70	450	70	5,0	70	450	70	8,0
630	-	-	-	-	70	480	70	8,0
700	70	520	70	6,0	70	520	70	8,0
710	-	-	-	-	80	530	80	8,0
800	80	560	80	8,0	80	560	80	8,0
900	90	650	90	8,0	90	650	90	10,0
1000	100	740	100	10,0	100	740	100	10,0
1200	120	960	120	12,0	120	960	120	12,0
1250	130	960	130	12,0	130	960	130	12,0

Ø	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	
	L	s	L	s
75	320	2,5	320	3,0
90	320	2,5	320	3,0
110	320	2,5	320	3,0
125	320	2,5	320	3,0
140	320	2,5	320	3,0
160	320	2,5	320	3,0
180	320	2,5	320	3,5
200	350	2,5	350	3,5
225	350	2,5	350	3,5
250	350	2,5	350	3,5
280	400	2,5	400	3,5
315	400	2,5	400	4,0
355	400	3,0	400	4,0
400	400	3,0	400	4,5
450	378	3,6	378	5,0
500	418	4,0	418	5,0
560	-	-	418	6,0
600	458	5,0	458	6,0
630	-	-	488	6,0
700	528	6,0	528	8,0
710	-	-	538	8,0
800	568	8,0	568	8,0
900	658	8,0	658	10,0
1000	748	10,0	748	10,0
1200	968	12,0	968	12,0
1250	968	12,0	968	12,0

	PVC/PE-HD/PP-H/PPs/PP-EL-s/PVDF							
Ø	L1	LK Ø	D1 Ø	D2 Ø	x	s	B Ø	Tol. B Ø
50	30	95	47	125	8	8	7,5	± 0,5
63	30	102	58	132	8	8	7,5	± 0,5
75	29	110	69	140	8	8	7,5	± 0,5
90	29	128	84	158	8	8	7,5	± 0,5
110	30	150	106	170	8	8	9,5	± 0,5
125	30	165	122	185	8	8	9,5	± 0,5
140	30	175	136	200	8	8	9,5	± 0,5
160	30	200	156	230	8	8	9,5	± 0,5
180	30	220	176	250	8	8	9,5	± 0,5
200	30	240	196	270	8	8	9,5	± 0,5
225	30	265	222	295	8	8	9,5	± 0,5
250	30	290	246	320	12	8	9,5	± 0,5
280	30	325	275	355	12	10	9,5	± 0,5
315	30	350	310	395	12	10	9,5	± 0,5
355	30	400	349	435	12	10	9,5	± 0,5
400	30	445	393	475	16	10	9,5	± 0,5
450	60	510	446	560	16	12	9,5	± 0,5
500	60	560	496	610	20	12	9,5	± 0,5
560	60	610	556	660	20	12	9,5	± 0,5
600	80	660	596	710	24	12	9,5	± 0,5
630	80	710	626	760	24	12	9,5	± 0,5
700	80	760	696	810	24	12	9,5	± 0,5
710	80	760	706	810	24	12	9,5	± 0,5
800	80	866	796	916	28	12	9,5	± 0,5
900	100	966	896	1016	32	12	9,5	± 0,5
1000	100	1066	993	1116	36	12	9,5	± 0,5
1200	120	1270	1193	1320	40	12	9,5	± 0,5
1250	130	1320	1242	1370	44	12	9,5	± 0,5

	PVC/PE-HD/PP-H/PPs/PP-EL-s/PVDF						
Ø	LK Ø	D1 Ø	D2 Ø	x	s	B Ø	Tol. B Ø
50	95	47	125	8	8	7,5	± 0,5
63	102	58	132	8	8	7,5	± 0,5
75	110	69	140	8	8	7,5	± 0,5
90	128	84	158	8	8	7,5	± 0,5
110	150	106	170	8	8	9,5	± 0,5
125	165	122	185	8	8	9,5	± 0,5
140	175	136	200	8	8	9,5	± 0,5
160	200	156	230	8	8	9,5	± 0,5
180	220	176	250	8	8	9,5	± 0,5
200	240	196	270	8	8	9,5	± 0,5
225	265	222	295	8	8	9,5	± 0,5
250	290	246	320	12	8	9,5	± 0,5
280	325	275	355	12	10	9,5	± 0,5
315	350	310	395	12	10	9,5	± 0,5
355	400	349	435	12	10	9,5	± 0,5
400	445	393	475	16	10	9,5	± 0,5
450	510	446	560	16	12	9,5	± 0,5
500	560	496	610	20	12	9,5	± 0,5
560	610	556	660	20	12	9,5	± 0,5
600	660	596	710	24	12	9,5	± 0,5
630	710	626	760	24	12	9,5	± 0,5
700	760	696	810	24	12	9,5	± 0,5
710	760	706	810	24	12	9,5	± 0,5
800	866	796	916	28	12	9,5	± 0,5
900	966	896	1016	32	12	9,5	± 0,5
1000	1066	993	1116	36	12	9,5	± 0,5
1200	1270	1193	1320	40	12	9,5	± 0,5
1250	1320	1242	1370	44	12	9,5	± 0,5

PVC/PE-HD/PP-H/PPs/PP-EL-s/PVDF						
Ø	LK Ø	D2 Ø	x	s	B Ø	Tol. B Ø
50	95	125	8	8	7,5	± 0,5
63	102	132	8	8	7,5	± 0,5
75	110	140	8	8	7,5	± 0,5
90	128	158	8	8	7,5	± 0,5
110	150	170	8	8	9,5	± 0,5
125	165	185	8	8	9,5	± 0,5
140	175	200	8	8	9,5	± 0,5
160	200	230	8	8	9,5	± 0,5
180	220	250	8	8	9,5	± 0,5
200	240	270	8	8	9,5	± 0,5
225	265	295	8	8	9,5	± 0,5
250	290	320	12	8	9,5	± 0,5
280	325	355	12	10	9,5	± 0,5
315	350	395	12	10	9,5	± 0,5
355	400	435	12	10	9,5	± 0,5
400	445	475	16	10	9,5	± 0,5
450	510	560	16	12	9,5	± 0,5
500	560	610	20	12	9,5	± 0,5
560	610	660	20	12	9,5	± 0,5
600	660	710	24	12	9,5	± 0,5
630	710	760	24	12	9,5	± 0,5
700	760	810	24	12	9,5	± 0,5
710	760	810	24	12	9,5	± 0,5
800	866	916	28	12	9,5	± 0,5
900	966	1016	32	12	9,5	± 0,5
1000	1066	1116	36	12	9,5	± 0,5
1200	1270	1320	40	12	9,5	± 0,5
1250	1320	1370	44	12	9,5	± 0,5



	PVC	
Ø	L	s
75*	90	2,0
90*	90	2,0
110*	90	2,0
125*	90	2,0
140	150	2,0
160	150	2,0
180	150	2,0
200	150	2,0
225	150	2,0
250	150	2,0
280	150	2,0
315	150	2,0
355	150	2,0
400	150	2,0
450	150	2,0
500	150	2,0
560	150	2,0
600	150	2,0
630	150	2,0
700	150	2,0
710	150	2,0
800	150	2,0
900	150	2,0
1000	150	2,0
1200	150	2,0
1250	150	2,0

* 3-fach gewellt

* 3-fold curled

* 3-fois ondulé

PVC			
Ø	L	L1	s
75*	40	130	2,0
90*	40	130	2,0
110*	40	120	2,0
125*	40	130	2,0
140	40	190	2,0
160	40	180	2,0
180	40	190	2,0
200	40	180	2,0
225	40	190	2,0
250	40	180	2,0
280	50	190	2,0
315	50	190	2,0
355	50	190	2,0
400	50	190	2,0
450	50	190	2,0
500	50	190	2,0
560	60	190	2,0
600	60	190	2,0
630	70	190	2,0
700	70	190	2,0
710	80	190	2,0
800	80	190	2,0
900	90	190	2,0
1000	100	190	2,0
1200	120	190	2,0
1250	130	190	2,0

Muffenmaterial in PE-HD/PP-H/PPs/PP-EL-s/PVDF/PVDF
 möglich. *3-fach gewellt

Possibly Material of sockets PE-HD/PP-H/PPs/PP-EL-
 s/PVDF/PVDF. *3-fold curled

matériel possible pour manchons PE-HD/PP-H/PPs/PP-
 EL-s/PVDF/PVDF. *3-fois ondulé

	PVC	
Ø	L	s
75*	155	2,0
90*	155	2,0
110*	155	2,0
125*	155	2,0
140	215	2,0
160	215	2,0
180	215	2,0
200	215	2,0
225	215	2,0
250	215	2,0
280	215	2,0
315	215	2,0
355	215	2,0
400	215	2,0
450	180	2,0
500	180	2,0
560	180	2,0
600	180	2,0
630	180	2,0
700	180	2,0
710	180	2,0
800	180	2,0
900	180	2,0
1000	180	2,0
1200	180	2,0
1250	180	2,0

Flanschmaterial in PE-HD/PP-H/PPs/PP-EL-s/PVDF/PVDF möglich. *3-fach gewellt

Possibly Material of flanges PE-HD/PP-H/PPs/PP-EL-s/PVDF/PVDF. *3-fold curled

matériel possible pour brides PE-HD/PP-H/PPs/PP-EL-s/PVDF/PVDF. *3-fois ondulé



	TPE	
Ø	L	s
110	150	2,5
125	150	2,5
140	150	2,5
160	150	2,5
180	150	2,5
200	150	2,5
225	150	2,5
250	150	2,5
280	150	2,5
315	150	2,5
355	150	2,5
400	150	2,5
450	150	2,5
500	150	2,5
560	150	2,5
600	150	2,5
630	150	2,5
700	150	2,5
710	150	2,5
800	150	2,5
900	150	2,5
1000	150	2,5
1200	150	2,5
1250	150	2,5

TPE			
Ø	L	L1	s
75	40	360	2,5
90	40	320	2,5
110	40	160	2,5
125	40	160	2,5
140	40	160	2,5
160	40	160	2,5
180	40	160	2,5
200	40	160	2,5
225	40	160	2,5
250	40	160	2,5
280	50	160	2,5
315	50	190	2,5
355	50	190	2,5
400	50	190	2,5
450	50	190	2,5
500	50	190	2,5
560	60	190	2,5
600	60	190	2,5
630	70	190	2,5
700	70	190	2,5
710	80	190	2,5
800	80	190	2,5
900	90	190	2,5
1000	100	190	2,5
1200	120	190	2,5
1250	130	190	2,5

Muffenmaterial in PE-HD/PP-H/PPs/PP-EL-s/PVDF
 möglich.

Possibly Material of sockets PE-HD/PP-H/PPs/PP-EL-
 s/PVDF.

matériel possible pour manchons PE-HD/PP-H/PPs/PP-
 EL-s/PVDF.

	TPE	
Ø	L	s
75	380	2,5
90	340	2,5
110	220	2,5
125	220	2,5
140	215	2,5
160	215	2,5
180	215	2,5
200	215	2,5
225	215	2,5
250	215	2,5
280	215	2,5
315	215	2,5
355	215	2,5
400	215	2,5
450	180	2,5
500	180	2,5
560	180	2,5
600	180	2,5
630	180	2,5
700	180	2,5
710	180	2,5
800	180	2,5
900	180	2,5
1000	180	2,5
1200	180	2,5
1250	180	2,5

Flanschmaterial in PE-HD/PP-H/PPs/PP-EL-s/PVDF möglich

Possibly Material of flanges PE-HD/PP-H/PPs/PP-EL-s/PVDF

matériel possible pour brides PE-HD/PP-H/PPs/PP-EL-s/PVDF

	PVC		TPE	
Ø	L	s	L	s
110	150	2,0	150	2,5
125	150	2,0	150	2,5
140	150	2,0	150	2,5
160	150	2,0	150	2,5
180	150	2,0	150	2,5
200	150	2,0	150	2,5
225	150	2,0	150	2,5
250	150	2,0	150	2,5
280	150	2,0	150	2,5
315	150	2,0	150	2,5
355	150	2,0	150	2,5
400	150	2,0	150	2,5
450	150	2,0	150	2,5
500	150	2,0	150	2,5
560	150	2,0	150	2,5
600	150	2,0	150	2,5
630	150	2,0	150	2,5
700	150	2,0	150	2,5
710	150	2,0	150	2,5
800	150	2,0	150	2,5
900	150	2,0	150	2,5
1000	150	2,0	150	2,5
1200	150	2,0	150	2,5
1250	150	2,0	150	2,5

PVC				TPE		
Ø	L	L1	s	L	L1	s
110	40	160	2,0	40	160	2,5
125	40	160	2,0	40	160	2,5
140	40	160	2,0	40	160	2,5
160	40	185	2,0	40	185	2,5
180	40	195	2,0	40	195	2,5
200	40	185	2,0	40	185	2,5
225	40	195	2,0	40	195	2,5
250	40	185	2,0	40	185	2,5
280	50	195	2,0	50	195	2,5
315	50	195	2,0	50	195	2,5
355	50	195	2,0	50	195	2,5
400	50	195	2,0	50	195	2,5
450	50	195	2,0	50	195	2,5
500	50	195	2,0	50	195	2,5
560	60	195	2,0	60	195	2,5
600	60	195	2,0	60	195	2,5
630	70	195	2,0	70	195	2,5
700	70	195	2,0	70	195	2,5
710	80	195	2,0	80	195	2,5
800	80	195	2,0	80	195	2,5
900	90	195	2,0	90	195	2,5
1000	100	195	2,0	100	195	2,5
1200	120	195	2,0	120	195	2,5
1250	130	195	2,0	130	195	2,5

Muffenmaterial in PE-HD/PP-H/PPs/PP-EL-s/PVDF möglich.

Possibly Material of sockets PE-HD/PP-H/PPs/PP-EL-s/PVDF

matériel possible pour manchons PE-HD/PP-H/PPs/PP-EL-s/PVDF

	PVC		TPE	
Ø	L	s	L	s
110	160	2,0	220	2,5
125	160	2,0	220	2,5
140	220	2,0	220	2,5
160	220	2,0	220	2,5
180	220	2,0	220	2,5
200	220	2,0	220	2,5
225	220	2,0	220	2,5
250	220	2,0	220	2,5
280	220	2,0	220	2,5
315	220	2,0	220	2,5
355	220	2,0	220	2,5
400	220	2,0	220	2,5
450	185	2,0	185	2,5
500	185	2,0	185	2,5
560	185	2,0	185	2,5
600	185	2,0	185	2,5
630	185	2,0	185	2,5
700	185	2,0	185	2,5
710	185	2,0	185	2,5
800	185	2,0	185	2,5
900	185	2,0	185	2,5
1000	185	2,0	185	2,5
1200	185	2,0	185	2,5
1250	185	2,0	185	2,5

Flanschmaterial in PE-HD/PP-H/PPs/PP-EL-s/PVDF möglich

Possibly Material of flanges PE-HD/PP-H/PPs/PP-EL-s/PVDF

matériel possible pour brides PE-HD/PP-H/PPs/PP-EL-s/PVDF

Wandstärke Rohrschalldämpfer L=500 muffe

Ø 1	Ø 2	PVC	PPS	PP-H	PE-HD	L
75	315	2,5	5,0	5,0	7,7	40
90	315	2,5	5,0	5,0	7,7	40
110	315	2,5	5,0	5,0	7,7	40
125	315	2,5	5,0	5,0	7,7	40
140	355	2,9	5,0	5,0	5,0	40
160	355	2,9	5,0	5,0	5,0	40
180	400	3,2	6,0	6,0	5,0	40
200	400	3,2	6,0	6,0	5,0	40
225	450	3,6	5,0	5,0	5,0	40
250	450	3,6	5,0	5,0	5,0	40
280	500	4,0	5,0	5,0	5,0	50
315	500	4,0	5,0	5,0	5,0	50
355	500	4,0	5,0	5,0	5,0	50
400	600	5,0	6,0	6,0	6,0	50
450	700	6,0	6,0	6,0	6,0	50
500	700	6,0	6,0	6,0	6,0	50
600	800	8,0	8,0	8,0	8,0	60

L1 = Kulissenlänge

L1 = Length

L1 = longueur de coulisse

Wandstärke Rohrschalldämpfer L=750 muffe						
Ø 1	Ø 2	PVC	PPS	PP-H	PE-HD	L
75	315	2,5	5,0	5,0	7,7	40
90	315	2,5	5,0	5,0	7,7	40
110	315	2,5	5,0	5,0	7,7	40
125	315	2,5	5,0	5,0	7,7	40
140	355	2,9	5,0	5,0	5,0	40
160	355	2,9	5,0	5,0	5,0	40
180	400	3,2	6,0	6,0	5,0	40
200	400	3,2	6,0	6,0	5,0	40
225	450	3,6	5,0	5,0	5,0	40
250	450	3,6	5,0	5,0	5,0	40
280	500	4,0	5,0	5,0	5,0	50
315	500	4,0	5,0	5,0	5,0	50
355	500	4,0	5,0	5,0	5,0	50
400	600	5,0	6,0	6,0	6,0	50
450	700	6,0	6,0	6,0	6,0	50
500	700	6,0	6,0	6,0	6,0	50
600	800	8,0	8,0	8,0	8,0	60

L1 = Kulissenlänge

L1 = Length

L1 = longueur de coulisse

Wandstärke Rohrschalldämpfer L=1000 muffe						
Ø 1	Ø 2	PVC	PPS	PP-H	PE-HD	L
75	315	2,5	5,0	5,0	7,7	40
90	315	2,5	5,0	5,0	7,7	40
110	315	2,5	5,0	5,0	7,7	40
125	315	2,5	5,0	5,0	7,7	40
140	355	2,9	5,0	5,0	5,0	40
160	355	2,9	5,0	5,0	5,0	40
180	400	3,2	6,0	6,0	5,0	40
200	400	3,2	6,0	6,0	5,0	40
225	450	3,6	5,0	5,0	5,0	40
250	450	3,6	5,0	5,0	5,0	40
280	500	4,0	5,0	5,0	5,0	50
315	500	4,0	5,0	5,0	5,0	50
355	500	4,0	5,0	5,0	5,0	50
400	600	5,0	6,0	6,0	6,0	50
450	700	6,0	6,0	6,0	6,0	50
500	700	6,0	6,0	6,0	6,0	50
560	800	-	8,0	8,0	8,0	60
600	800	8,0	8,0	8,0	8,0	60
630	800	-	8,0	8,0	8,0	70
700	900	8,0	8,0	8,0	8,0	70
710	900	-	8,0	8,0	8,0	80
800	1000	10,0	10,0	10,0	10,0	80
900	1100	10,0	10,0	10,0	10,0	90
1000	1200	12,0	12,0	12,0	12,0	100
1200	1400	12,0	12,0	12,0	12,0	120
1250	1400	12,0	12,0	12,0	12,0	130

L1 = Kulissenlänge

L1 = Length

L1 = longueur de coulisse

Wandstärke Rohrschalldämpfer L=1250 muffe						
Ø 1	Ø 2	PVC	PPS	PP-H	PE-HD	L
75	315	2,5	5,0	5,0	7,7	40
90	315	2,5	5,0	5,0	7,7	40
110	315	2,5	5,0	5,0	7,7	40
125	315	2,5	5,0	5,0	7,7	40
140	355	2,9	5,0	5,0	5,0	40
160	355	2,9	5,0	5,0	5,0	40
180	400	3,2	6,0	6,0	5,0	40
200	400	3,2	6,0	6,0	5,0	40
225	450	3,6	5,0	5,0	5,0	40
250	450	3,6	5,0	5,0	5,0	40
280	500	4,0	5,0	5,0	5,0	50
315	500	4,0	5,0	5,0	5,0	50
355	500	4,0	5,0	5,0	5,0	50
400	600	5,0	6,0	6,0	6,0	50
450	700	6,0	6,0	6,0	6,0	50
500	700	6,0	6,0	6,0	6,0	50
560	800	-	8,0	8,0	8,0	60
600	800	8,0	8,0	8,0	8,0	60
630	800	-	8,0	8,0	8,0	70
700	900	8,0	8,0	8,0	8,0	70
710	900	-	8,0	8,0	8,0	80
800	1000	10,0	10,0	10,0	10,0	80
900	1100	10,0	10,0	10,0	10,0	90
1000	1200	12,0	12,0	12,0	12,0	100
1200	1400	12,0	12,0	12,0	12,0	120
1250	1400	12,0	12,0	12,0	12,0	130

L1 = Kulissenlänge
 L1 = Length
 L1 = longueur de coulisse

Wandstärke Rohrschalldämpfer L=1500 muffe						
Ø 1	Ø 2	PVC	PPS	PP-H	PE-HD	L
75	315	2,5	5,0	5,0	7,7	40
90	315	2,5	5,0	5,0	7,7	40
110	315	2,5	5,0	5,0	7,7	40
125	315	2,5	5,0	5,0	7,7	40
140	355	2,9	5,0	5,0	5,0	40
160	355	2,9	5,0	5,0	5,0	40
180	400	3,2	6,0	6,0	5,0	40
200	400	3,2	6,0	6,0	5,0	40
225	450	3,6	5,0	5,0	5,0	40
250	450	3,6	5,0	5,0	5,0	40
280	500	4,0	5,0	5,0	5,0	50
315	500	4,0	5,0	5,0	5,0	50
355	500	4,0	5,0	5,0	5,0	50
400	600	5,0	6,0	6,0	6,0	50
450	700	6,0	6,0	6,0	6,0	50
500	700	6,0	6,0	6,0	6,0	50
560	800	-	8,0	8,0	8,0	60
600	800	8,0	8,0	8,0	8,0	60
630	800	-	8,0	8,0	8,0	70
700	900	8,0	8,0	8,0	8,0	70
710	900	-	8,0	8,0	8,0	80
800	1000	10,0	10,0	10,0	10,0	80
900	1100	10,0	10,0	10,0	10,0	90
1000	1200	12,0	12,0	12,0	12,0	100
1200	1400	12,0	12,0	12,0	12,0	120
1250	1400	12,0	12,0	12,0	12,0	130

L1 = Kulissenlänge

L1 = Length

L1 = longueur de coulisse

Wandstärke Rohrschalldämpfer L=1750 muffe						
Ø 1	Ø 2	PVC	PPS	PP-H	PE-HD	L
75	315	2,5	5,0	5,0	7,7	40
90	315	2,5	5,0	5,0	7,7	40
110	315	2,5	5,0	5,0	7,7	40
125	315	2,5	5,0	5,0	7,7	40
140	355	2,9	5,0	5,0	5,0	40
160	355	2,9	5,0	5,0	5,0	40
180	400	3,2	6,0	6,0	5,0	40
200	400	3,2	6,0	6,0	5,0	40
225	450	3,6	5,0	5,0	5,0	40
250	450	3,6	5,0	5,0	5,0	40
280	500	4,0	5,0	5,0	5,0	50
315	500	4,0	5,0	5,0	5,0	50
355	500	4,0	5,0	5,0	5,0	50
400	600	5,0	6,0	6,0	6,0	50
450	700	6,0	6,0	6,0	6,0	50
500	700	6,0	6,0	6,0	6,0	50
560	800	-	8,0	8,0	8,0	60
600	800	8,0	8,0	8,0	8,0	60
630	800	-	8,0	8,0	8,0	70
700	900	8,0	8,0	8,0	8,0	70
710	900	-	8,0	8,0	8,0	80
800	1000	10,0	10,0	10,0	10,0	80
900	1100	10,0	10,0	10,0	10,0	90
1000	1200	12,0	12,0	12,0	12,0	100
1200	1400	12,0	12,0	12,0	12,0	120
1250	1400	12,0	12,0	12,0	12,0	130

L1 = Kulissenlänge

L1 = Length

L1 = longueur de coulisse

Wandstärke Rohr						
Ø 1	Ø 2	PVC	PPS	PP-H	PE-HD	L
75	315	2,5	5,0	5,0	7,7	40
90	315	2,5	5,0	5,0	7,7	40
110	315	2,5	5,0	5,0	7,7	40
125	315	2,5	5,0	5,0	7,7	40
140	355	2,9	5,0	5,0	5,0	40
160	355	2,9	5,0	5,0	5,0	40
180	400	3,2	6,0	6,0	5,0	40
200	400	3,2	6,0	6,0	5,0	40
225	450	3,6	5,0	5,0	5,0	40
250	450	3,6	5,0	5,0	5,0	40
280	500	4,0	5,0	5,0	5,0	50
315	500	4,0	5,0	5,0	5,0	50
355	500	4,0	5,0	5,0	5,0	50
400	600	5,0	6,0	6,0	6,0	50
450	700	6,0	6,0	6,0	6,0	50
500	700	6,0	6,0	6,0	6,0	50
560	800	-	8,0	8,0	8,0	60
600	800	8,0	8,0	8,0	8,0	60
630	800	-	8,0	8,0	8,0	70
700	900	8,0	8,0	8,0	8,0	70
710	900	-	8,0	8,0	8,0	80
800	1000	10,0	10,0	10,0	10,0	80
900	1100	10,0	10,0	10,0	10,0	90
1000	1200	12,0	12,0	12,0	12,0	100
1200	1400	12,0	12,0	12,0	12,0	120
1250	1400	12,0	12,0	12,0	12,0	130

L1 = Kulissenlänge

L1 = Length

L1 = longueur de coulisse

Wandstärke Rohrschalldämpfer L=500 fl						
Ø 1	Ø 2	L	PVC	PPS	PP-H	PE-HD
75	315	700	2,5	5,0	5,0	7,7
90	315	700	2,5	5,0	5,0	7,7
110	315	700	2,5	5,0	5,0	7,7
125	315	700	2,5	5,0	5,0	7,7
140	355	700	2,9	5,0	5,0	5,0
160	355	700	2,9	5,0	5,0	5,0
180	400	700	3,2	6,0	6,0	5,0
200	400	700	3,2	6,0	6,0	5,0
225	450	700	3,6	5,0	5,0	5,0
250	450	700	3,6	5,0	5,0	5,0
280	500	700	4,0	5,0	5,0	5,0
315	500	700	4,0	5,0	5,0	5,0
355	500	700	4,0	5,0	5,0	5,0
400	600	700	5,0	6,0	6,0	6,0
450	700	700	6,0	6,0	6,0	6,0
500	700	700	6,0	6,0	6,0	6,0
600	800	700	8,0	8,0	8,0	8,0

Wandstärke Rohrschalldämpfer L=750 fl

Ø 1	Ø 2	L	PVC	PPS	PP-H	PE-HD
75	315	950,0	2,5	5,0	5,0	7,7
90	315	950,0	2,5	5,0	5,0	7,7
110	315	950,0	2,5	5,0	5,0	7,7
125	315	950,0	2,5	5,0	5,0	7,7
140	355	950,0	2,9	5,0	5,0	5,0
160	355	950,0	2,9	5,0	5,0	5,0
180	400	950,0	3,2	6,0	6,0	5,0
200	400	950,0	3,2	6,0	6,0	5,0
225	450	950,0	3,6	5,0	5,0	5,0
250	450	950,0	3,6	5,0	5,0	5,0
280	500	950,0	4,0	5,0	5,0	5,0
315	500	950,0	4,0	5,0	5,0	5,0
355	500	950,0	4,0	5,0	5,0	5,0
400	600	950,0	5,0	6,0	6,0	6,0
450	700	950,0	6,0	6,0	6,0	6,0
500	700	950,0	6,0	6,0	6,0	6,0
600	800	950,0	8,0	8,0	8,0	8,0

Wandstärke Rohrschalldämpfer L=1000 fl						
Ø 1	Ø 2	L	PVC	PPS	PP-H	PE-HD
75	315	1200	2,5	5,0	5,0	7,7
90	315	1200	2,5	5,0	5,0	7,7
110	315	1200	2,5	5,0	5,0	7,7
125	315	1200	2,5	5,0	5,0	7,7
140	355	1200	2,9	5,0	5,0	5,0
160	355	1200	2,9	5,0	5,0	5,0
180	400	1200	3,2	6,0	6,0	5,0
200	400	1200	3,2	6,0	6,0	5,0
225	450	1200	3,6	5,0	5,0	5,0
250	450	1200	3,6	5,0	5,0	5,0
280	500	1200	4,0	5,0	5,0	5,0
315	500	1200	4,0	5,0	5,0	5,0
355	500	1200	4,0	5,0	5,0	5,0
400	600	1200	5,0	6,0	6,0	6,0
450	700	1200	6,0	6,0	6,0	6,0
500	700	1200	6,0	6,0	6,0	6,0
560	800	1200	8,0	8,0	8,0	8,0
600	800	1200	8,0	8,0	8,0	8,0
630	800	1200	8,0	8,0	8,0	8,0
700	900	1200	8,0	8,0	8,0	8,0
710	900	1200	8,0	8,0	8,0	8,0
800	1000	1200	10,0	10,0	10,0	10,0
900	1100	1200	10,0	10,0	10,0	10,0
1000	1200	1200	12,0	12,0	12,0	12,0
1200	1400	1200	12,0	12,0	12,0	12,0
1250	1400	1200	12,0	12,0	12,0	12,0

Wandstärke Rohrschalldämpfer L=1250 fl						
Ø 1	Ø 2	L	PVC	PPS	PP-H	PE-HD
75	315	1450	2,5	5,0	5,0	7,7
90	315	1450	2,5	5,0	5,0	7,7
110	315	1450	2,5	5,0	5,0	7,7
125	315	1450	2,5	5,0	5,0	7,7
140	355	1450	2,9	5,0	5,0	5,0
160	355	1450	2,9	5,0	5,0	5,0
180	400	1450	3,2	6,0	6,0	5,0
200	400	1450	3,2	6,0	6,0	5,0
225	450	1450	3,6	5,0	5,0	5,0
250	450	1450	3,6	5,0	5,0	5,0
280	500	1450	4,0	5,0	5,0	5,0
315	500	1450	4,0	5,0	5,0	5,0
355	500	1450	4,0	5,0	5,0	5,0
400	600	1450	5,0	6,0	6,0	6,0
450	700	1450	6,0	6,0	6,0	6,0
500	700	1450	6,0	6,0	6,0	6,0
560	800	1450	8,0	8,0	8,0	8,0
600	800	1450	8,0	8,0	8,0	8,0
630	800	1450	8,0	8,0	8,0	8,0
700	900	1450	8,0	8,0	8,0	8,0
710	900	1450	8,0	8,0	8,0	8,0
800	1000	1450	10,0	10,0	10,0	10,0
900	1100	1450	10,0	10,0	10,0	10,0
1000	1200	1450	12,0	12,0	12,0	12,0
1200	1400	1450	12,0	12,0	12,0	12,0
1250	1400	1450	12,0	12,0	12,0	12,0

Wandstärke Rohrschalldämpfer L=1500 fl						
Ø 1	Ø 2	L	PVC	PPS	PP-H	PE-HD
75	315	1700	2,5	5,0	5,0	7,7
90	315	1700	2,5	5,0	5,0	7,7
110	315	1700	2,5	5,0	5,0	7,7
125	315	1700	2,5	5,0	5,0	7,7
140	355	1700	2,9	5,0	5,0	5,0
160	355	1700	2,9	5,0	5,0	5,0
180	400	1700	3,2	6,0	6,0	5,0
200	400	1700	3,2	6,0	6,0	5,0
225	450	1700	3,6	5,0	5,0	5,0
250	450	1700	3,6	5,0	5,0	5,0
280	500	1700	4,0	5,0	5,0	5,0
315	500	1700	4,0	5,0	5,0	5,0
355	500	1700	4,0	5,0	5,0	5,0
400	600	1700	5,0	6,0	6,0	6,0
450	700	1700	6,0	6,0	6,0	6,0
500	700	1700	6,0	6,0	6,0	6,0
560	800	1700	8,0	8,0	8,0	8,0
600	800	1700	8,0	8,0	8,0	8,0
630	800	1700	8,0	8,0	8,0	8,0
700	900	1700	8,0	8,0	8,0	8,0
710	900	1700	8,0	8,0	8,0	8,0
800	1000	1700	10,0	10,0	10,0	10,0
900	1100	1700	10,0	10,0	10,0	10,0
1000	1200	1700	12,0	12,0	12,0	12,0
1200	1400	1700	12,0	12,0	12,0	12,0
1250	1400	1700	12,0	12,0	12,0	12,0

Wandstärke Rohrschalldämpfer L=1750 fl						
Ø 1	Ø 2	L	PVC	PPS	PP-H	PE-HD
75	315	1950	2,5	5,0	5,0	7,7
90	315	1950	2,5	5,0	5,0	7,7
110	315	1950	2,5	5,0	5,0	7,7
125	315	1950	2,5	5,0	5,0	7,7
140	355	1950	2,9	5,0	5,0	5,0
160	355	1950	2,9	5,0	5,0	5,0
180	400	1950	3,2	6,0	6,0	5,0
200	400	1950	3,2	6,0	6,0	5,0
225	450	1950	3,6	5,0	5,0	5,0
250	450	1950	3,6	5,0	5,0	5,0
280	500	1950	4,0	5,0	5,0	5,0
315	500	1950	4,0	5,0	5,0	5,0
355	500	1950	4,0	5,0	5,0	5,0
400	600	1950	5,0	6,0	6,0	6,0
450	700	1950	6,0	6,0	6,0	6,0
500	700	1950	6,0	6,0	6,0	6,0
560	800	1950	8,0	8,0	8,0	8,0
600	800	1950	8,0	8,0	8,0	8,0
630	800	1950	8,0	8,0	8,0	8,0
700	900	1950	8,0	8,0	8,0	8,0
710	900	1950	8,0	8,0	8,0	8,0
800	1000	1950	10,0	10,0	10,0	10,0
900	1100	1950	10,0	10,0	10,0	10,0
1000	1200	1950	12,0	12,0	12,0	12,0
1200	1400	1950	12,0	12,0	12,0	12,0
1250	1400	1950	12,0	12,0	12,0	12,0

Wandstärke Rohrschalldämpfer L=2000 fl						
Ø 1	Ø 2	L	PVC	PPS	PP-H	PE-HD
75	315	2200	2,5	5,0	5,0	7,7
90	315	2200	2,5	5,0	5,0	7,7
110	315	2200	2,5	5,0	5,0	7,7
125	315	2200	2,5	5,0	5,0	7,7
140	355	2200	2,9	5,0	5,0	5,0
160	355	2200	2,9	5,0	5,0	5,0
180	400	2200	3,2	6,0	6,0	5,0
200	400	2200	3,2	6,0	6,0	5,0
225	450	2200	3,6	5,0	5,0	5,0
250	450	2200	3,6	5,0	5,0	5,0
280	500	2200	4,0	5,0	5,0	5,0
315	500	2200	4,0	5,0	5,0	5,0
355	500	2200	4,0	5,0	5,0	5,0
400	600	2200	5,0	6,0	6,0	6,0
450	700	2200	6,0	6,0	6,0	6,0
500	700	2200	6,0	6,0	6,0	6,0
560	800	2200	8,0	8,0	8,0	8,0
600	800	2200	8,0	8,0	8,0	8,0
630	800	2200	8,0	8,0	8,0	8,0
700	900	2200	8,0	8,0	8,0	8,0
710	900	2200	8,0	8,0	8,0	8,0
800	1000	2200	10,0	10,0	10,0	10,0
900	1100	2200	10,0	10,0	10,0	10,0
1000	1200	2200	12,0	12,0	12,0	12,0
1200	1400	2200	12,0	12,0	12,0	12,0
1250	1400	2200	12,0	12,0	12,0	12,0

Ø	PVC				PE-HD/PP-H/PPs/PP-EL-s/PVDF			
	L	L1	A Ø (xC)	B x C	L	L1	A Ø (xC)	B x C
110	40	290	206	-	40	290	206	-
125	40	340	256	-	40	340	256	-
140	40	320	256	-	40	320	256	-
160	40	410	321	-	40	410	321	-
180	40	380	321	-	40	380	321	-
200	40	410	361	-	40	410	361	-
225	40	430	408	-	40	430	408	-
250	40	470	458	-	40	470	458	-
280	50	520	508	-	50	520	508	-
315	50	440	508	-	50	440	508	-
355	50	1097	600x399	279x399	50	1097	600x399	279x399
400	50	1202	674x448	313x448	50	1202	674x448	313x448
450	50	1322	758x503	351x503	50	1322	758x503	351x503
500	50	1440	840x558	388x558	50	1440	840x558	388x558
560	-	-	-	-	60	1570	923x613	425x613
600	60	1688	1005x668	463x668	60	1688	1005x668	463x668
630	-	-	-	-	70	1818	1089x723	501x723
700	70	1936	1170x778	538x778	70	1936	1170x778	538x778
710	-	-	-	-	80	2066	1254x833	576x833
800	80	2184	1336x888	613x888	80	2184	1336x888	613x888
900	90	2432	1501x998	688x998	90	2432	1501x998	688x998
1000	100	2680	1666x1108	763x1108	100	2680	1666x1108	763x1108
1200	120	3176	1997x1328	913x1328	120	3176	1997x1328	913x1328
1250	130	3306	2081x1383	951x1383	130	3306	2081x1383	951x1383

ab Ø 355 mm rechteckige Ausführung
 from Ø 355 mm rectangular execution
 à partir de Ø 355 mm Version rectangulaire

	PVC			PE-HD/PP-H/PPs/PP-EL-s/PVDF		
Ø	L1	A Ø (xC)	B x C	L1	B x C	L1
110	350	206	-	350	206	-
125	400	256	-	400	256	-
140	380	256	-	380	256	-
160	470	321	-	470	321	-
180	440	321	-	440	321	-
200	470	361	-	470	361	-
225	490	408	-	490	408	-
250	530	458	-	530	458	-
280	580	508	-	580	508	-
315	500	508	-	500	508	-
355	1057	600x399	279x399	1057	600x399	279x399
400	1162	674x448	313x448	1162	674x448	313x448
450	1284	758x503	351x503	1284	758x503	351x503
500	1402	840x558	388x558	1402	840x558	388x558
560	-	-	-	1522	923x613	425x613
600	1640	1005x668	463x668	1640	1005x668	463x668
630	-	-	-	1760	1089x723	501x723
700	1878	1170x778	538x778	1878	1170x778	538x778
710	-	-	-	1998	1254x833	576x833
800	2116	1336x888	613x888	2116	1336x888	613x888
900	2354	1501x998	688x998	2354	1501x998	688x998
1000	2592	1666x1108	763x1108	2592	1666x1108	763x1108
1200	3066	1997x1328	913x1328	3066	1997x1328	913x1328
1250	3188	2081x1383	951x1383	3188	2081x1383	951x1383

ab Ø 355 mm rechteckige Ausführung

from Ø 355 mm rectangular execution

à partir de Ø 355 mm Version rectangulaire

Ø	PVC / PVC weiß			PE-HD/PP-H/PPs/PP-EL-s/PVDF		L
	L	L1	min. s	L1	min. s	
50	40	8	2,5	8	2,9	40
63	40	9	2,5	9	2	40
75	40	11	2,5	11	1,9	40
90	40	14	2,5	14	2,8	40
110	40	17	2,5	17	3	40
125	40	19	2,5	19	3	40
140	40	21	2,5	21	3	40
160	40	24	2,5	24	3	40
180	40	27	2,5	27	3	40
200	40	30	2,5	30	3	40
225	40	34	2,5	34	3,5	40
250	40	38	2,5	38	3,5	40
280	50	42	2,5	42	3,5	50
315	50	47	2,5	47	5	50
355	50	53	3	53	5	50
400	50	60	3	60	6	50
450	50	68	5	68	5	50
500	50	75	5	75	5	50
560	-	84	-	84	5	60
600	60	90	5	90	6	60
630	-	95	-	95	6	70
700	70	105	6	105	6	70
710	-	107	-	107	6	80
800	80	120	8	120	8	80
900	90	135	8	135	8	90
1000	100	150	10	150	10	100
1200	120	180	12	180	12	120
1250	130	188	12	188	12	130

Ø	PVC			PE-HD/PP-H/PPs/PP-EL-s/PVDF		PPS	Wandstärke Rohr s		
	L	L1	s	L	L1		PP-H	PE-HD	PP-el-s
50	40	35	1,8	40	35	3,0	1,9	6,0	3,0
63	40	35	1,8	40	35	3,0	1,9	2,5	3,0
75	40	50	1,8	40	50	3,0	1,9	4,5	3,0
90	40	50	1,8	40	50	3,0	2,2	5,4	3,0
110	40	50	1,8	40	50	3,0	2,7	3,4	3,0
125	40	50	1,8	40	50	3,0	3,1	3,9	3,0
140	40	50	1,8	40	50	3,0	3,5	4,3	3,0
160	40	50	1,8	40	50	3,0	4,0	4,0	3,0
180	40	50	1,8	40	50	3,0	4,4	5,5	3,5
200	40	50	1,8	40	50	3,0	3,0	6,2	3,5
225	40	50	1,8	40	50	3,5	5,5	6,9	3,5
250	40	50	2,0	40	50	3,5	3,5	6,2	5,0
280	50	60	2,3	50	60	3,5	6,9	8,6	5,0
315	50	65	2,5	50	65	5,0	5,0	7,7	6,0
355	50	75	2,9	50	75	5,0	5,0	10,9	6,0
400	50	80	3,2	50	80	6,0	6,0	12,3	6,0
450	50	90	5,0	50	90	5,0	5,0	5,0	5,0
500	50	100	5,0	50	100	5,0	5,0	5,0	5,0
560	-	-	-	60	115	6,0	6,0	6,0	6,0
600	60	120	6,0	60	120	6,0	6,0	6,0	6,0
630	-	-	-	70	130	6,0	6,0	6,0	6,0
700	70	140	6,0	70	140	6,0	6,0	6,0	6,0
710	-	-	-	80	145	6,0	6,0	6,0	6,0
800	80	160	8,0	80	160	8,0	8,0	8,0	8,0
900	90	180	8,0	90	180	8,0	8,0	8,0	8,0
1000	100	200	10,0	100	200	10,0	10,0	10,0	10,0
1200	120	240	12,0	120	240	12,0	12,0	12,0	12,0
1250	130	250	12,0	130	250	12,0	12,0	12,0	12,0

	PVC			PE-HD/PP-H/PPs/PP-EL-s/PVDF		
Ø	L	L1	min. s	L	L1	min. s
75	40	150	1,8	40	150	3,0
90	40	180	1,8	40	180	3,0
110	40	220	1,8	40	220	3,0
125	40	250	1,8	40	250	3,0
140	40	280	1,8	40	280	3,0
160	40	320	1,8	40	320	3,0
180	40	360	1,8	40	360	3,0
200	40	400	1,8	40	400	3,0
225	40	450	1,8	40	450	3,5
250	40	500	2,0	40	500	3,5
280	50	560	2,3	50	560	3,5
315	50	630	2,5	50	630	4,0
355	50	710	2,9	50	710	4,0
400	50	800	3,2	50	800	4,5
450	50	900	3,6	50	900	5,0
500	50	1000	5,0	50	1000	5,0
560	-	-	-	60	1120	6,0
600	60	1200	5,0	60	1200	6,0
630	-	-	-	70	1260	6,0
700	70	1400	6,0	70	1400	6,0
710	-	-	-	80	1420	6,0
800	80	1600	8,0	80	1600	8,0
900	90	1800	8,0	90	1800	8,0
1000	100	2000	10,0	100	2000	10,0
1200	120	2400	12,0	120	2400	12,0
1250	130	2500	12,0	130	2500	12,0

PVC ab Ø 700 mm, PE-HD/PP-H/PPs ab Ø560 mm, PP-EL-s und PVDF ab Ø 450 mm als Segmentbogen

PVC from Ø 700 mm, PE-HD/PP-H/PPs from Ø560 mm, PP-EL-s and PVDF from Ø 450 mm are manufactured

PVC à partir de Ø 700 mm, PE-HD/PP-H/PPs à partir de Ø560 mm, PP-EL-s et PVDF à partir de Ø 450 mm

Ø	PVC			PE-HD/PP-H/PPs/PP-EL-s/PVDF		
	L	L1	min. s	L	L1	min. s
75	40	40	1,8	40	40	3,0
90	40	40	1,8	40	40	3,0
110	40	60	1,8	40	60	3,0
125	40	60	1,8	40	60	3,0
140	40	60	1,8	40	60	3,0
160	40	60	1,8	40	60	3,0
180	40	60	1,8	40	60	3,0
200	40	80	1,8	40	80	3,0
225	40	80	1,8	40	80	3,5
250	40	80	2,0	40	80	3,5
280	50	80	2,3	50	80	3,5
315	50	100	2,5	50	100	4,0
355	50	100	2,9	50	100	4,0
400	50	100	3,2	50	100	4,5
450	50	150	3,6	50	150	5,0
500	50	150	5,0	50	150	5,0
560	-	-	-	60	200	6,0
600	60	200	5,0	60	200	6,0
630	-	-	-	70	200	6,0
700	70	250	6,0	70	250	6,0
710	-	-	-	80	250	6,0
800	80	300	8,0	80	300	8,0
900	90	300	8,0	90	300	8,0
1000	100	350	10,0	100	350	10,0
1200	120	350	12,0	120	350	12,0
1250	130	350	12,0	130	350	12,0

PVC ab Ø 700 mm, PE-HD/PP-H/PPs ab Ø560 mm, PP-EL-s und PVDF ab Ø 450 mm als Segmentbogen

PVC from Ø 700 mm, PE-HD/PP-H/PPs from Ø560 mm, PP-EL-s and PVDF from Ø 450 mm are

PVC à partir de Ø 700 mm, PE-HD/PP-H/PPs à partir de Ø560 mm, PP-EL-s et PVDF à partir de Ø 450

		PVC	PE-HD/PP-H/PPs/PP-EL-s/PVDF
Ø	s	Toleranz Ø	Toleranz Ø
450	5	0,8	3,5
500	5	0,9	4,0
560	5	-	4,5
600	5	1,0	4,5

		PVC	PE-HD/PP-H/PPs/PP-EL-s/PVDF
Ø	s	Toleranz Ø	Toleranz Ø
450	6	0,8	3,5
500	6	0,9	4,0
560	6	-	4,5
600	6	1,0	4,5
630	6	-	4,5
700	6	2,5	4,5
710	6	-	4,5

		PVC	PE-HD/PP-H/PPs/PP-EL-s/PVDF
Ø	s	Toleranz Ø	Toleranz Ø
700	8	2,5	4,5
710	8	-	4,5
800	8	3,0	4,5
900	8	3,0	4,5
1000	8	4,0	5,0

		PVC	PE-HD/PP-H/PPs/PP-EL-s/PVDF
Ø	s	Toleranz Ø	Toleranz Ø
1000	10	4,0	5,0
1200	10	4,0	5,0
1250	10	4,0	5,0

		PVC	PE-HD/PP-H/PPs/PP-EL-s/PVDF
Ø	s	Toleranz Ø	Toleranz Ø
1200	12	4,0	5,0
1250	12	4,0	5,0

Ø	PVC					PE-HD/PP-H/PPs/PP-EL-s/PVDF				
	L	H	H1	B Ø	s	L	H	H1	B Ø	s
75	40	173	55	231	8,0	40	173	55	231	8,0
90	40	173	55	231	8,0	40	173	55	231	8,0
110	40	173	55	231	8,0	40	173	55	231	8,0
125	40	181	63	231	8,0	40	181	63	231	8,0
140	40	188	70	256	8,0	40	188	70	256	8,0
160	40	198	80	256	8,0	40	198	80	256	8,0
180	40	208	90	286	8,0	40	208	90	286	8,0
200	40	218	100	321	8,0	40	218	100	321	8,0
225	40	231	113	361	8,0	40	231	113	361	8,0
250	40	243	125	406	8,0	40	243	125	406	8,0
280	50	258	140	450	10,0	50	258	140	450	10,0
315	50	276	158	500	10,0	50	276	158	500	10,0
355	50	296	178	550	10,0	50	296	178	550	10,0
400	50	318	200	600	10,0	50	318	200	600	10,0
450	55	353	225	650	10,0	55	353	225	650	10,0
500	55	378	250	700	10,0	55	378	250	700	10,0
560	-	-	-	-	-	55	408	280	750	10,0
600	55	428	300	800	10,0	55	428	300	800	10,0
630	-	-	-	-	-	55	443	315	850	10,0
700	70	508	350	900	10,0	70	508	350	900	10,0
710	-	-	-	-	-	70	533	355	900	10,0
800	80	580	400	1000	10,0	80	580	400	1000	10,0
900	90	650	450	1100	10,0	90	650	450	1100	10,0
1000	100	720	500	1200	12,0	100	720	500	1200	12,0
1200	120	860	600	1400	12,0	120	860	600	1400	12,0
1250	130	905	625	1450	12,0	130	905	625	1450	12,0

	PVC				PE-HD/PP-H/PPs/PP-EL-s/PVDF			
Ø	H	H1	B Ø	s	H	H1	B Ø	s
75	202	55	231	8,0	202	55	231	8,0
90	202	55	231	8,0	202	55	231	8,0
110	203	55	231	8,0	203	55	231	8,0
125	211	63	231	8,0	211	63	231	8,0
140	218	70	256	8,0	218	70	256	8,0
160	228	80	256	8,0	228	80	256	8,0
180	238	90	286	8,0	238	90	286	8,0
200	248	100	321	8,0	248	100	321	8,0
225	261	113	361	8,0	261	113	361	8,0
250	273	125	406	8,0	273	125	406	8,0
280	288	140	450	10,0	288	140	450	10,0
315	306	158	500	10,0	306	158	500	10,0
355	326	178	550	10,0	326	178	550	10,0
400	348	200	600	10,0	348	200	600	10,0
450	413	225	650	10,0	413	225	650	10,0
500	438	250	700	10,0	438	250	700	10,0
560	-	-	-	-	468	280	750	10,0
600	508	300	800	10,0	508	300	800	10,0
630	-	-	-	-	523	315	850	10,0
700	588	350	900	10,0	588	350	900	10,0
710	-	-	-	-	613	355	900	10,0
800	660	400	1000	10,0	660	400	1000	10,0
900	730	450	1100	10,0	730	450	1100	10,0
1000	820	500	1200	12,0	820	500	1200	12,0
1200	960	600	1400	12,0	960	600	1400	12,0
1250	1025	625	1450	12,0	1025	625	1450	12,0

Ø	Gewicht kg/m	s	Biegeradius	Arbeitsdruck max. bar	Vakuum max. Bar
50	0,24	0,4	35	0,35	0,15
65	0,33	0,4	45	0,33	0,13
75	0,34	0,4	49	0,30	0,12
90	0,36	0,4	53	0,30	0,10
110	0,39	0,4	56	0,25	0,09
125	0,5	0,4	70	0,20	0,08
140	0,6	0,4	85	0,20	0,07
160	0,62	0,4	88	0,15	0,06
180	0,7	0,4	95	0,10	0,06
200	0,73	0,4	105	0,08	0,05
225	0,81	0,4	123	0,06	0,04
250	0,99	0,4	140	0,05	0,03
280	1,23	0,4	175	0,04	0,03
315	1,49	0,4	210	0,03	0,02
355	1,98	0,4	245	0,02	0,02
400	2,26	0,4	280	0,02	0,01
450	2,54	0,4	315	0,01	0,01
500	2,83	0,4	350	0,01	0,01

PVC	
B	H
300	100
400	100
500	100
600	100
300	150
400	150
500	150
600	150
300	200
400	200
500	200
600	200
300	250
400	250
500	250
600	250

PVC/PE-HD/PP-H/PPs/PP-EL-s/PVDF	
B	H
300	100
400	100
500	100
600	100
300	150
400	150
500	150
600	150
300	200
400	200
500	200
600	200
300	250
400	250
500	250
600	250

	PVC						PE-HD/PP-H/PPs/PP-EL-s/PVDF					Wandstärke Rohr			
Ø	H1	H2	A x A	Ø 1	s Platte	s Rohr	H1	H2	A x A	Ø 1	s Platte	PPS	PP-H	PE-HD	PP-el-s
110	250	400	350x350	200	8,0	1,8	250	400	350x350	200	8,0	3,0	2,7	3,4	3,0
125	250	400	350x350	250	8,0	1,8	250	400	350x350	250	8,0	3,0	3,1	3,9	3,0
140	250	400	350x350	250	8,0	1,8	250	400	350x350	250	8,0	3,0	3,5	4,3	3,0
160	250	400	400x400	315	8,0	1,8	250	400	400x400	315	8,0	3,0	4,0	4,0	3,0
180	250	400	400x400	315	8,0	1,8	250	400	400x400	315	8,0	3,0	4,4	5,5	3,0
200	250	400	400x400	315	8,0	1,8	250	400	400x400	315	8,0	3,0	3,0	6,2	3,0
225	250	400	450x450	400	10,0	1,8	250	400	450x450	400	10,0	3,5	5,5	6,9	3,5
250	250	400	450x450	450	10,0	2,0	250	400	450x450	450	10,0	3,5	3,5	6,2	3,5
280	250	400	500x500	500	10,0	2,3	250	400	500x500	500	10,0	3,5	6,9	8,6	3,5
315	250	400	500x500	500	10,0	2,5	250	400	500x500	500	10,0	5,0	5,0	7,7	5,0
355	250	400	550x550	500	10,0	2,9	250	400	550x550	500	10,0	5,0	5,0	10,9	5,0
400	250	400	600x600	500	10,0	3,2	250	400	600x600	500	10,0	6,0	6,0	12,3	6,0
450	250	400	750x750	600	10,0	5,0	250	400	750x750	600	10,0	6,0	6,0	6,0	6,0
500	250	400	800x800	700	10,0	5,0	250	400	800x800	700	10,0	6,0	6,0	6,0	6,0
560	-	-	-	-	-	-	250	400	860x860	800	10,0	6,0	6,0	6,0	6,0
600	250	400	900x900	800	10,0	6,0	250	400	900x900	800	10,0	6,0	6,0	6,0	6,0
630	-	-	-	-	-	-	250	400	930x930	800	10,0	6,0	6,0	6,0	6,0
700	250	400	1100x1100	900	12,0	6,0	250	400	1100x1100	900	12,0	6,0	6,0	6,0	6,0
710	-	-	-	-	-	-	250	400	1100x1100	900	12,0	6,0	6,0	6,0	6,0
800	250	400	1200x1200	1000	12,0	8,0	250	400	1200x1200	1000	12,0	8,0	8,0	8,0	8,0
900	250	400	1300x1300	1200	12,0	8,0	250	400	1300x1300	1200	12,0	8,0	8,0	8,0	8,0
1000	250	400	1400x1400	1200	12,0	10,0	250	400	1400x1400	1200	12,0	10,0	10,0	10,0	10,0
1200	250	400	1600x1600	1400	12,0	12,0	250	400	1600x1600	1400	12,0	12,0	12,0	12,0	12,0
1250	250	400	1650x1650	1400	12,0	12,0	250	400	1650x1650	1400	12,0	12,0	12,0	12,0	12,0

Ø	PVC						PE-HD/PP-H/PPs/PP-EL-s/PVDF					Wandstärke Rohr			
	H1	H2	A x A	Ø 1	s Platte	s Rohr	H1	H2	A x A	Ø 1	s Platte	PPS	PP-H	PE-HD	PP-el-s
110	300	430	400x400	200	8,0	1,8	300	430	400x400	200	8,0	3,0	2,7	3,4	3,0
125	300	430	400x400	250	8,0	1,8	300	430	400x400	250	8,0	3,0	3,1	3,9	3,0
140	300	435	400x400	250	8,0	1,8	300	435	400x400	250	8,0	3,0	3,5	4,3	3,0
160	300	440	450x450	315	8,0	1,8	300	440	450x450	315	8,0	3,0	4,0	4	3,0
180	300	445	450x450	315	8,0	1,8	300	445	450x450	315	8,0	3,0	4,4	5,5	3,0
200	300	450	450x450	315	8,0	1,8	300	450	450x450	315	8,0	3,0	3,0	6,2	3,0
225	300	455	500x500	400	10,0	1,8	300	455	500x500	400	10,0	3,5	5,5	6,9	3,5
250	300	460	500x500	450	10,0	2,0	300	460	500x500	450	10,0	3,5	3,5	6,2	3,5
280	300	470	550x550	500	10,0	2,3	300	470	550x550	500	10,0	3,5	6,9	8,6	3,5
315	300	480	550x550	500	10,0	2,5	300	480	550x550	500	10,0	5,0	5,0	7,7	5,0
355	300	490	600x600	500	10,0	2,9	300	490	600x600	500	10,0	5,0	5,0	10,9	5,0
400	300	500	650x650	500	10,0	3,2	300	500	650x650	500	10,0	6,0	6,0	12,3	6,0
450	300	550	800x800	600	10,0	3,6	300	550	800x800	600	10,0	6,0	6,0	6,0	6,0
500	300	550	850x850	700	10,0	4,0	300	550	850x850	700	10,0	6,0	6,0	6,0	6,0
560	-	-	-	-	-	-	300	600	910x910	800	10,0	6,0	6,0	6,0	6,0
600	300	600	950x950	800	10,0	5,0	300	600	950x950	800	10,0	6,0	6,0	6,0	6,0
630	-	-	-	-	-	-	300	600	1000x1000	800	10,0	6,0	6,0	6,0	6,0
700	300	650	1200x1200	900	12,0	6,0	300	650	1200x1200	900	12,0	6,0	6,0	6,0	6,0
710	-	-	-	-	-	-	300	650	1200x1200	900	12,0	6,0	6,0	6,0	6,0
800	300	700	1300x1300	1000	12,0	8,0	300	700	1300x1300	1000	12,0	8,0	8,0	8,0	8,0
900	300	750	1400x1400	1200	12,0	8,0	300	750	1400x1400	1200	12,0	8,0	8,0	8,0	8,0
1000	300	800	1500x1500	1200	12,0	10,0	300	800	1500x1500	1200	12,0	10,0	10,0	10,0	10,0
1200	300	850	1700x1700	1400	12,0	12,0	300	850	1700x1700	1400	12,0	12,0	12,0	12,0	12,0
1250	300	850	1700x1700	1400	12,0	12,0	300	850	1700x1700	1400	12,0	12,0	12,0	12,0	12,0

Dachaufsatz mit Neigung ist bauseitig NICHT verstellbar! Dachneigung im Auftragsfall angeben.

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Élément de toiture avec inclinaison ne peut plus être ajusté lors de l'installation. Spécifiez la pente du toit en cas de commande

Ø	PVC						PE-HD/PP-H/PPs/PP-EL-s/PVDF					Wandstärke Rohr			
	H1	H2	A x A	Ø 1	s Platte	s Rohr	H1	H2	A x A	Ø 1	s Platte	PPS	PP-H	PE-HD	PP-el-s
110	350	450	450x450	200	8,0	1,8	350	450	450x450	200	8,0	3,0	2,7	3,4	3,0
125	350	460	450x450	250	8,0	1,8	350	460	450x450	250	8,0	3,0	3,1	3,9	3,0
140	350	470	450x450	250	8,0	1,8	350	470	450x450	250	8,0	3,0	3,5	4,3	3,0
160	350	480	500x500	315	8,0	1,8	350	480	500x500	315	8,0	3,0	4,0	4,0	3,0
180	350	490	500x500	315	8,0	1,8	350	490	500x500	315	8,0	3,0	4,4	5,5	3,0
200	350	500	500x500	315	8,0	1,8	350	500	500x500	315	8,0	3,0	3,0	6,2	3,0
225	350	510	550x550	400	10,0	1,8	350	510	550x550	400	10,0	3,5	5,5	6,9	3,5
250	350	525	550x550	450	10,0	2,0	350	525	550x550	450	10,0	3,5	3,5	6,2	3,5
280	350	540	600x600	500	10,0	2,3	350	540	600x600	500	10,0	3,5	6,9	8,6	3,5
315	350	550	600x600	500	10,0	2,5	350	550	600x600	500	10,0	5,0	5,0	7,7	5,0
355	350	570	650x650	500	10,0	2,9	350	570	650x650	500	10,0	5,0	5,0	10,9	5,0
400	350	600	700x700	500	10,0	3,2	350	600	700x700	500	10,0	6,0	6,0	12,3	6,0
450	350	700	1050x1050	600	10,0	3,6	350	700	1050x1050	600	10,0	6,0	6,0	6,0	6,0
500	350	800	1100x1100	700	10,0	4,0	350	800	1100x1100	700	10,0	6,0	6,0	6,0	6,0
560	-	-	-	-	-	-	350	900	1160x1160	800	10,0	6,0	6,0	6,0	6,0
600	350	900	1200x1200	800	10,0	5,0	350	900	1200x1200	800	10,0	6,0	6,0	6,0	6,0
630	-	-	-	-	-	-	350	950	1230x1230	800	10,0	6,0	6,0	6,0	6,0
700	350	1050	1400x1400	900	12,0	6,0	350	1050	1400x1400	900	12,0	6,0	6,0	6,0	6,0
710	-	-	-	-	-	-	350	1050	1400x1400	900	12,0	6,0	6,0	6,0	6,0
800	350	1150	1600x1600	1000	12,0	8,0	350	1150	1600x1600	1000	12,0	8,0	8,0	8,0	8,0
900	350	1250	1750x1750	1200	12,0	8,0	350	1250	1750x1750	1200	12,0	8,0	8,0	8,0	8,0
1000	350	1350	1900x1900	1200	12,0	10,0	350	1350	1900x1900	1200	12,0	10,0	10,0	10,0	10,0
1200	350	1650	2150x2150	1400	12,0	12,0	350	1650	2150x2150	1400	12,0	12,0	12,0	12,0	12,0
1250	350	1650	2200x2200	1400	12,0	12,0	350	1650	2200x2200	1400	12,0	12,0	12,0	12,0	12,0

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Ø	PVC			PE-HD/PP-H/PPs/PP-EL-s/PVDF			Wandstärke Rohr		
	L	L1	s	L	L1	s	PP-H	PE-HD	PP-el-s
90	40	205	1,8	40	205	3,0	2,7	3,4	-
110	40	205	1,8	40	205	3,0	2,7	3,4	-
125	40	205	1,8	40	205	3,0	3,1	3,9	-
140	40	205	1,8	40	205	3,0	3,5	4,3	-
160	40	205	1,8	40	205	3,0	4,0	4,0	3,0
180	40	205	1,8	40	205	3,0	4,4	5,5	3,0
200	40	215	1,8	40	215	3,0	3,0	6,2	3,0
225	40	215	1,8	40	215	3,5	5,5	6,9	3,5
250	40	215	2,0	40	215	3,5	3,5	6,2	3,5
280	50	255	2,3	50	255	3,5	6,9	8,6	3,5
315	50	255	2,5	50	255	5,0	5,0	7,7	5,0
355	50	255	2,9	50	255	5,0	5,0	10,9	5,0
400	50	255	3,2	50	255	6,0	6,0	12,3	6,0
450	50	340	3,6	50	340	5,0	5,0	5,0	5,0
500	50	380	4,0	50	380	5,0	5,0	5,0	5,0
560	-	-	-	60	420	6,0	6,0	6,0	6,0
600	60	450	5,0	60	450	6,0	6,0	6,0	6,0
630	-	-	-	70	480	6,0	6,0	6,0	6,0
700	70	530	6,0	70	530	6,0	6,0	6,0	6,0
710	-	-	-	80	540	6,0	6,0	6,0	6,0
800	80	600	8,0	80	600	8,0	8,0	8,0	8,0
900	90	680	8,0	90	680	8,0	8,0	8,0	8,0
1000	100	750	10,0	100	750	10,0	10,0	10,0	10,0
1200	120	900	12,0	120	900	12,0	12,0	12,0	12,0
1250	130	940	12,0	130	940	12,0	12,0	12,0	12,0

Lamellen Ausführung 2 und 3 aus PVC; Luftgeschwindigkeit max. 10 m/sec. *PP-EL-s erst ab Größe Ø 160mm lieferbar

Lamellar execution 2 and 3 made of PVC; Air speed max. 10m/sec. *PP-EL-s is only from a Ø160mm available

lamelles Type 2 et 3 en PVC; Vitesse de l'air max. 10 m / sec. *PP-EL-s est seulement disponible à Partir de Ø160mm

Ø	PVC				PE-HD/PP-H/PPs/PP-EL-s/PVDF			
	L	L1	A x A	s	L	L1	A x A	s
110	40	65	170	5,0	40	65	170*	5,0
125	40	65	170	5,0	40	65	170*	5,0
140	40	70	205	5,0	40	70	205	5,0
160	40	70	205	5,0	40	70	205	5,0
180	40	70	255	5,0	40	70	255	5,0
200	40	70	255	5,0	40	70	255	5,0
225	40	80	305	5,0	40	80	305	5,0
250	40	80	305	5,0	40	80	305	5,0
280	50	90	358	6,0	50	90	358	6,0
315	50	90	358	6,0	50	90	358	6,0
355	50	90	410	6,0	50	90	410	6,0
400	50	120	474	6,0	50	120	474	6,0
450	50	120	512	6,0	50	120	512	6,0
500	50	120	560	6,0	50	120	560	6,0
560	-	-	-	-	60	120	712	6,0
600	60	120	712	6,0	60	120	712	6,0
630	-	-	-	-	70	120	712	6,0

Lamellen Ausführung 2 und 3 aus PVC, Luftgeschwindigkeit max. 10m/sec. *PP-El-s = 205 mm

Lamellar execution 2 and 3 made of PVC, Air speed max. 10m/sec. *PP-El-s = 205 mm

lamelles Type 2 et 3 en PVC, Vitesse de l'air max. 10m/sec. *PP-El-s = 205 mm

Ø	PVC				PE-HD/PP-H/PPs/PP-EL-s/PVDF			
	L	L1	A x A	s	L	L1	A x A	s
110	40	65	170	5,0	40	65	170*	5,0
125	40	65	170	5,0	40	65	170*	5,0
140	40	70	205	5,0	40	70	205	5,0
160	40	70	205	5,0	40	70	205	5,0
180	40	70	255	5,0	40	70	255	5,0
200	40	70	255	5,0	40	70	255	5,0
225	40	80	305	5,0	40	80	305	5,0
250	40	80	305	5,0	40	80	305	5,0
280	50	90	358	6,0	50	90	358	6,0
315	50	90	358	6,0	50	90	358	6,0
355	50	90	410	6,0	50	90	410	6,0
400	50	120	474	6,0	50	120	474	6,0
450	50	120	512	6,0	50	120	512	6,0
500	50	120	560	6,0	50	120	560	6,0
560	-	-	-	-	60	120	712	6,0
600	60	120	712	6,0	60	120	712	6,0
630	-	-	-	-	70	120	712	6,0

Lamellen Ausführung 2 und 3 aus PVC, Luftgeschwindigkeit max. 10m/sec. *PP-El-s = 205 mm

Lamellar execution 2 and 3 made of PVC, Air speed max. 10m/sec. *PP-El-s = 205 mm

lamelles Type 2 et 3 en PVC, Vitesse de l'air max. 10m/sec. *PP-El-s = 205 mm

Ø	A x A
110	160
125	160
140	194
160	194
180	244
200	244
225	294
250	294
280	347
315	347
355	397
400	462
450	501
500	549
600	696

maximale

maximum air flow 10m/s

vitesse du flux maximale

PVC				PE-HD/PP-H/PPs/PP-el-s/PVDF		Wandstärke Rohr			
Ø	AxA	s plaque	s	AxA	s Platte	PPs	PP-H	PE-HD	PP-el-s
110	210	5,0	1,8	210	5,0	3,0	2,7	3,4	3,0
125	275	5,0	1,8	275	5,0	3,0	3,1	3,9	3,0
140	290	5,0	1,8	290	5,0	3,0	3,5	4,3	3,0
160	310	5,0	1,8	310	5,0	3,0	4,0	4,0	3,0
180	330	5,0	1,8	330	5,0	3,0	4,4	5,5	3,0
200	350	8,0	1,8	350	8,0	3,0	3,0	6,2	3,0
225	425	8,0	1,8	425	8,0	3,5	5,5	6,9	3,5
250	450	8,0	2,0	450	8,0	3,5	3,5	6,2	3,5
280	480	8,0	2,3	480	8,0	3,5	6,9	8,6	3,5
315	515	8,0	2,5	515	8,0	5,0	5,0	7,7	5,0
355	555	8,0	2,9	555	8,0	5,0	5,0	10,9	5,0
400	600	8,0	3,2	600	8,0	6,0	6,0	12,3	6,0
450	750	10,0	3,6	750	10,0	6,0	6,0	6,0	6,0
500	800	10,0	4,0	800	10,0	6,0	6,0	6,0	6,0
560	-	-	-	860	10,0	6,0	6,0	6,0	6,0
600	900	10,0	5,0	900	10,0	6,0	6,0	6,0	6,0
630	-	-	-	930	10,0	6,0	6,0	6,0	6,0
700	1100	12,0	6,0	1100	12,0	6,0	6,0	6,0	6,0
710	-	-	-	1100	12,0	6,0	6,0	6,0	6,0
800	1200	12,0	8,0	1200	12,0	8,0	8,0	8,0	8,0
900	1300	12,0	8,0	1300	12,0	8,0	8,0	8,0	8,0
1000	1400	12,0	10,0	1400	12,0	10,0	10,0	10,0	10,0
1200	1600	12,0	12,0	1600	12,0	12,0	12,0	12,0	12,0
1250	1650	12,0	12,0	1650	12,0	12,0	12,0	12,0	12,0

	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	Wandstärke Rohr			
Ø	L	s	L	PPS	PP-H	PE-HD	PP-el-s
75	100	1,8	100	3,0	1,9	4,5	3,0
90	100	1,8	100	3,0	2,2	5,4	3,0
110	100	1,8	100	3,0	2,7	3,4	3,0
125	100	1,8	100	3,0	3,1	3,9	3,0
140	100	1,8	100	3,0	3,5	4,3	3,0
160	100	1,8	100	3,0	4,0	4,0	3,0
180	150	1,8	150	3,0	4,4	5,5	3,0
200	150	1,8	150	3,0	3,0	6,2	3,0
225	150	1,8	150	3,5	5,5	6,9	3,5
250	150	2,0	150	3,5	3,5	6,2	3,5
280	200	2,3	200	3,5	6,9	8,6	3,5
315	200	2,5	200	5,0	5,0	7,7	5,0
355	200	2,9	200	5,0	5,0	10,9	5,0
400	200	3,2	200	6,0	6,0	12,3	6,0
450	250	3,6	250	5,0	5,0	5,0	5,0
500	250	4,0	250	5,0	5,0	5,0	5,0
560	-	-	250	6,0	6,0	6,0	6,0
600	300	5,0	300	6,0	6,0	6,0	6,0
630	-	-	300	6,0	6,0	6,0	6,0
700	350	6,0	350	6,0	6,0	6,0	6,0
710	-	-	350	6,0	6,0	6,0	6,0
800	400	8,0	400	8,0	8,0	8,0	8,0
900	450	8,0	450	8,0	8,0	8,0	8,0
1000	500	10,0	500	10,0	10,0	10,0	10,0
1200	600	12,0	600	12,0	12,0	12,0	12,0
1250	600	12,0	600	12,0	12,0	12,0	12,0

	PVC		PE-HD/PP-H/PPs/PP-EL-s/PVDF	
Ø	L	s	L	s
50	25	3,0	25	3,0
63	25	3,0	25	3,0
75	25	3,0	25	3,0
90	25	3,0	25	3,0
110	25	3,0	25	3,0
125	25	3,0	25	3,0
140	25	3,0	25	3,0
160	25	3,0	25	3,0
180	25	3,0	25	3,0
200	25	3,0	25	3,0
225	25	3,0	25	3,0
250	25	3,0	25	3,0
280	25	3,0	25	3,0
315	25	3,0	25	3,0
355	25	3,0	25	3,0
400	25	3,0	25	3,0
450	30	6,0	30	6,0
500	30	6,0	30	6,0
560	-	-	40	6,0
600	40	6,0	40	6,0
630	-	-	40	6,0
700	40	8,0	40	8,0
710	-	-	40	8,0
800	50	8,0	50	8,0
900	50	8,0	50	8,0
1000	50	10,0	50	10,0
1200	60	12,0	60	12,0
1250	60	12,0	60	12,0

Ø	PVC	PE-HD/PP-H/PPs/PP-EL-s/PVDF			Wandstärke Rohr				
	D1	H	D1	H	PPS	PP-H	PE-HD	PP-el-s	PVC
110	180	100	180	100	3,0	2,7	3,4	3,0	1,8
125	200	100	200	100	3,0	3,1	3,9	3,0	1,8
140	225	120	225	120	3,0	3,5	4,3	3,0	1,8
160	250	130	250	130	3,0	4,0	4,0	3,0	1,8
180	280	140	280	140	3,0	4,4	5,5	3,0	1,8
200	280	150	280	150	3,0	3,0	6,2	3,0	1,8
225	315	170	315	170	3,5	5,5	6,9	3,5	1,8
250	355	180	355	180	3,5	3,5	6,2	3,5	2,0
280	400	190	400	190	3,5	6,9	8,6	3,5	2,3
315	400	210	400	210	5,0	5,0	7,7	5,0	2,5
355	450	220	450	220	5,0	5,0	10,9	5,0	2,9
400	500	250	500	250	6,0	6,0	12,3	6,0	3,2
450	560	250	560	250	5,0	5,0	5,0	5,0	3,6
500	610	315	610	315	5,0	5,0	5,0	5,0	4,0
560	-	-	660	315	6,0	6,0	6,0	6,0	-
600	710	315	710	315	6,0	6,0	6,0	6,0	5,0
630	-	-	760	315	6,0	6,0	6,0	6,0	-
700	810	315	810	315	6,0	6,0	6,0	6,0	6,0
710	-	-	810	315	6,0	6,0	6,0	6,0	-
800	916	400	916	400	8,0	8,0	8,0	8,0	8,0
900	1016	400	1016	400	8,0	8,0	8,0	8,0	8,0
1000	1116	400	1116	400	10,0	10,0	10,0	10,0	10,0
1200	1320	400	1320	400	12,0	12,0	12,0	12,0	12,0
1250	1370	400	1370	400	12,0	12,0	12,0	12,0	12,0

Ø	PVC				PE-HD/PP-H/PPs/PP-EL-s/PVDF				Wandstärke Rohr				
	L	L1	L2	D1	L	L1	L2	D1	PPS	PP-H	PE-HD	PP-el-s	PVC
110	40	140	50,0	110	40	140	50,0	110	3,0	2,7	3,4	3,0	1,8
125	40	155	50,0	125	40	155	50,0	125	3,0	3,1	3,9	3,0	1,8
140	40	170	50,0	140	40	170	50,0	140	3,0	3,5	4,3	-	1,8
160	40	190	50,0	160	40	190	50,0	160	3,0	4,0	4,0	3,0	1,8
180	40	210	50,0	180	40	210	50,0	180	3,0	4,4	5,5	-	1,8
200	40	230	50,0	200	40	230	50,0	200	3,0	3,0	6,2	3,0	1,8
225	40	270	50,0	225	40	270	50,0	225	3,5	5,5	6,9	-	1,8
250	40	280	50,0	250	40	280	50,0	250	3,5	3,5	6,2	3,5	2,0
280	50	320	50,0	280	50	320	50,0	280	3,5	6,9	8,6	-	2,3
315	50	345	50,0	315	50	345	50,0	315	5,0	5,0	7,7	5,0	2,5
355	50	350	50,0	250	50	350	50,0	250	5,0	5,0	10,9	-	2,9
400	50	350	50,0	250	50	350	50,0	250	6,0	6,0	12,3	6,0	3,2
450	50	350	50,0	250	50	350	50,0	250	5,0	5,0	5,0	5,0	3,6
500	50	415	50,0	315	50	415	50,0	315	5,0	5,0	5,0	5,0	4,0
560	-	-	-	-	60	415	50,0	315	6,0	6,0	6,0	6,0	-
600	60	515	100,0	315	60	515	100,0	315	6,0	6,0	6,0	6,0	5,0
630	-	-	-	-	70	515	100,0	315	6,0	6,0	6,0	6,0	-
700	70	515	100,0	315	70	515	100,0	315	6,0	6,0	6,0	6,0	6,0
710	-	-	-	-	80	515	100,0	315	6,0	6,0	6,0	6,0	-
800	80	600	100,0	400	80	600	100,0	400	8,0	8,0	8,0	8,0	8,0
900	90	600	100,0	400	90	600	100,0	400	8,0	8,0	8,0	8,0	8,0
1000	100	700	150,0	400	100	700	150,0	400	10,0	10,0	10,0	10,0	10,0
1200	120	700	150,0	400	120	700	150,0	400	12,0	12,0	12,0	12,0	12,0
1250	130	700	150,0	400	130	700	150,0	400	12,0	12,0	12,0	12,0	12,0

PVC/PVC weiß/PE-HD/PP-H/PPs						
Kanalgröße	A	B	C	L	S	freier Querschnitt %
300x100	300	100	12	50	5	34
300x150	300	150	12	50	5	36
300x200	300	200	12	50	5	37
300x250	300	250	12	50	5	38
400x100	400	100	12	50	5	35
400x150	400	150	12	50	5	36
400x200	400	200	12	50	5	37
400x250	400	250	12	50	5	38
500x100	500	100	12	50	5	34
500x150	500	150	12	50	5	36
500x200	500	200	12	50	5	37
500x250	500	250	12	50	5	38
600x100	600	100	12	50	5	35
600x150	600	150	12	50	5	36
600x200	600	200	12	50	5	37
600x250	600	250	12	50	5	38

PVC/PVC Weiß/PE-HD/PP-H/PPs			PVC	PCV weiß	PE-HD	PP-H	PPs		
Ø	Da	C	L	S					freier Querschnitt %
110	110	12	50	1,80	1,8	2,7	2,7	2,7	16
125	125	12	50	1,80	1,8	3,1	3,1	3,1	16
140	140	12	50	1,80	-	3,5	3,5	3	19
160	160	12	50	1,80	1,8	4	4	3	21
180	180	12	50	1,80	-	4,4	4,4	3	21
200	200	12	50	1,80	1,8	4,9	3	3	24
225	225	12	50	1,80	-	5,5	5,5	3,5	25
250	250	12	50	2	3	6,2	3,5	3,5	27
280	280	12	50	2,30	-	6,9	6,9	4	27
315	315	12	50	2,50	2,9	7,7	5	5	30
355	355	12	50	2,90	2,9	8,7	6	5	33
400	400	12	50	3,20	3,2	8	6	6	33

Kein PVC Weiß mit Rohrstück angepasst auf bei den größten Da Ø 140,180,225 und 280.

It is not possible to use PVC white with connector fitted for pipe Ø 140, 180,225 and 280

PVC blanc, le raccordement n'est pas possible d'être adaptée sur Ø 140,180,225 und 280

Kanalgröße	PVC/PVC weiß/PE-HD/PP-H/PPs					freier Querschnitt
	A	B	C	L	min. s	%
300x100	300	100	12	50	5	34
300x150	300	150	12	50	5	36
300x200	300	200	12	50	5	37
300x250	300	250	12	50	5	38
400x100	400	100	12	50	5	35
400x150	400	150	12	50	5	36
400x200	400	200	12	50	5	37
400x250	400	250	12	50	5	38
500x100	500	100	12	50	5	34
500x150	500	150	12	50	5	36
500x200	500	200	12	50	5	37
500x250	500	250	12	50	5	38
600x100	600	100	12	50	5	35
600x150	600	150	12	50	5	36
600x200	600	200	12	50	5	37
600x250	600	250	12	50	5	38

			PVC	PVC Weiß	PE-HD/PP-H/PPs	freier Querschnitt
Ø	C	L	min. s			%
110	12	50	1,8	1,8	2,7	16
125	12	50	1,8	1,8	3,1	16
140	12	50	1,8	-	3	19
160	12	50	1,8	1,8	3	21
180	12	50	1,8	-	3	21
200	12	50	1,8	1,8	3	24
225	12	50	1,8	-	3,5	25
250	12	50	2	3	3,5	27
280	12	50	2,3	-	4	27
315	12	50	2,5	2,9	5	30
355	12	50	2,9	2,9	5	33
400	12	50	3,2	3,2	6	33

Kein PVC Weiß mit Rohrstück angepasst auf bei den größten Da Ø 140,180,225 und 280.

It is not possible to use PVC white with connector fitted for pipe Ø 140, 180,225 and 280

PVC blanc, le raccordement n'est pas possible d'être adaptée sur Ø 140,180,225 und 280

Semi-finished products - Delivery Overview

Material designation according to DIN / ISO	PANELS, SHEETS, BLOCKS	FOILS + SHEETS	ROUND (SOLID) RODS	HEXAGONAL RODS	HOLLOW RODS	PRESSURE & SIGHT PIPES	VENTILATION	COMPONENTS	WELDING ADDITIVES	SHAPED PIPES	STANDARD PROFILES
	Standard dimensions (mm)						Additional delivery options				
	Thickness 1)	Thickness 1)	ODØ 2)	LW	ODØ 3)	ODØ 4)	(✓ = available / - = no)				Type of profile
BIO-Polymere div.	-	-	10-40	-	-	-	-	-	-	-	✓
PVC-U (Hard-PVC)	1-100	-	5-400	10-38	15-230	10-600	✓	✓	✓	✓	U/L/H/T
PVC-HI	3-50	-	20,30,40	-	-	-	-	-	-	-	-
PVC-ESD	-	-	20,30,50	-	-	-	-	-	-	-	-
PVC-C	3-30	-	10-150	-	-	16-500	-	✓	-	-	L
PE-HD (PE 300)	2-120	-	10-700	17-38	30-1350	10-1400	✓	✓	✓	✓	U/L
PE-HMW (PE 500)	10-100	-	-	-	-	-	-	-	-	-	-
PE-UHMW (PE 1000)	3-100	-	20-200	17-38	-	-	-	-	-	-	-
PP-H	2-120	-	10-700	17-32	30-1350	10-1400	✓	✓	✓	✓	U/L
PPs	3-20	-	20-100	-	-	-	✓	✓	✓	-	-
PPs-EL	3-20	-	20-80	-	-	-	-	✓	-	-	-
PP-GF30	40	-	20-150	17-38	-	-	-	-	-	-	-
PP-PET-F30	-	-	25-100	-	-	-	-	-	-	-	-
PP-C	3-15	-	-	-	-	-	-	✓	-	-	-
PP-R	-	-	-	-	-	-	-	✓	-	-	-
PP-ESD	-	-	20-110	-	-	-	-	-	-	-	-
ABS	15-100	-	10-100	-	-	-	-	-	-	-	-
PET (PETP)	10-80	-	12-200	17-38	-	-	-	-	-	-	-
PMMA-XT	-	-	4-200	-	-	7-250	-	-	-	-	-
PMMA-GS	-	-	10-200	-	-	40-500	-	-	-	-	-
PC	15-50	-	10-180	17-38	-	10-200	-	-	-	-	-
PPE	10, 20	-	20-80	-	-	-	-	-	-	-	-
PPE-GF30	-	-	30, 40	-	-	-	-	-	-	-	-
PA 6 xt	2-100	-	6-300	17-38	20-100	-	-	-	-	-	-
PA 6.6	10-50	-	6-150	17-38	-	-	-	-	-	-	-
PA 6 cast	16-100	-	50-320	-	-	-	-	-	-	-	-
PA 6.6-GF30	10-100	-	20-150	-	-	-	-	-	-	-	-
POM-C	2-130	-	3-500	17-38	20-200	20-450	-	-	-	-	-
POM-ESD	12, 20	-	-	-	-	-	-	-	-	-	-
POM-ELS	30, 50, 80	-	12, 20, 30	-	-	-	-	-	-	-	-
POM-PE10	10-50	-	20-100	-	-	-	-	-	-	-	-
PEEK	8-50	-	5-200	17-38	-	-	-	-	-	-	-
PEEK mod.	10, 20	-	10-80	-	-	-	-	-	-	-	-
PEEK-GF30	-	-	10100	-	-	-	-	-	-	-	-
PES	-	-	12-100	-	-	-	-	-	-	-	-
PSU	-	-	20-100	-	-	-	-	-	-	-	-
PPS	-	-	20-50	-	-	-	-	-	-	-	-
PPS-GF40	-	-	20-50	-	-	-	-	-	-	-	-
PPSU	-	-	20-40	-	-	-	-	-	-	-	-
PEI	-	-	25-100	-	-	-	-	-	-	-	-
PVDF	2-60	-	10-250	17-38	110-250	16-400	✓	✓	-	-	-
PVDF-ELS	-	-	20-60	-	-	-	-	-	-	-	-
ECTFE	1,5/2,3/3	1,5/2,3	25-127	-	-	20-110	✓	✓	-	-	-
PCTFE	5-30	-	9-125	-	30-430	-	-	-	-	-	-
FEP	5-30	1,5-2,3	9-125	-	-	32-110	-	✓	-	-	-
PFA	5-30	1,5-2,3	9-125	-	-	16-32	-	✓	-	-	-
PTFE-virg.	1-50	0,5-3	4-775	-	10-1440	10-80	-	-	-	-	-
PTFE-C25	1-50	0,5-3	4-775	-	10-1440	10-80	-	-	-	-	-
PTFE-GF25	1-50	0,5-3	4-775	-	10-1440	10-80	-	-	-	-	-

1) Standard formats, 2) Standard length, 3) Inner diameter and length as well as 4) Wall thickness (if applicable, pressure series) and length on request.

Minimum quantities, standard formats, designs, colors, cuttings, and machined parts according to drawing are available on request.

This overview illustrates our delivery options for standard products and does not claim to be complete and accurate.

As a specialist company, we also supply machinery, equipment, and accessories for plastic welding, joining, bending, and folding technology.

Semi-finished products - Delivery Overview



Plates and bars made of
PA 6, PA 6.6, PA 6.6 GF30



Plates and bars made of
POM-C, POM-ESD, POM-AS



Plates and bars made of
PET (PETP)



Plates and bars made of
PVC-U, PVC-C



Plates and bars made of
PP-H, PP-C



Plates and bars made of
PE-HD (PE80, PE100), PE-UHWM



Plates and bars made of
PEEK, ECTFE, PCTFE, PTFE, FEP, PFA



Plates and bars made of
ABS



Pipes and bars made of
PMMA



Standard profiles and shaped pipes made of
PVC-U, PE-HD, PP



Pipes and bars made of
transp. PVC-U



Plates and bars made of
PC (Industriequalität)

Notes



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