

Funke VPC® Pipe Coupling

*with DIBt Approval
Z-42.5-450
for nominal diameters
100 - 1070!*



100 – 1070 mm



Resistant
to oil and petrol
Tensioning hoop
made of V4A
(1.4404)

The perfect connection for non-pressure pipes!

The Funke VPC® Materials p

The Product

The new Funke VPC® Pipe Coupling allows pipes of the same nominal diameters made of different materials to be connected to one another safely, reliably, and with the best possible results – despite having different outer diameters incurred by the design type! The Funke VPC® Pipe Coupling consists of a reducible sealing sleeve made of elastomer rubber, a centrally reducible securing cage made of plastic, and two stainless-steel bands for applying force to achieve a uniform circumferential adjustment.

The **sealing sleeve** – It is made of ethylene-propylene-diene (monomer) rubber (EPDM) in accordance with DIN EN 681-1 WC/60, and has a multiple double sealing profile for really reliable sealing in accordance with DIN EN 1610. Radial circumferential cut-outs in the material, and single compartments, mean that meshed engagement of the securing cage into the rubber can be achieved with complete reliability.

The **securing cage** consists of a highly impact-resistant plastic, stable under breaking stress, and resistant to both heat and cold. Its conically deformable middle section and the integrated band guide channels on both sides allow for centric and stepless reduction adjustment of the individual orientation of both contact areas. The reduction process takes place uniformly over the entire circumference, while the jointed middle section enables a separate reduction to be obtained on each side of the pipe coupling.

Securing cage and sealing sleeve are designed in such a way that any movement or distortion of the rubber during the

diameter adjustment is avoided. The sleeve matches up to the different outer diameters of the different pipe materials while the **tension bands** made of corrosion-free stainless steel are being tightened. Sealing sleeve and securing cage, together with the two tension bands, form a compact, stable shaped, and yet still flexible unit.

The VPC® pipe coupling is available in two design formats. In the standard version, the components are made of V2A stainless steel, highly rust-resistant (material No. 1.4301). The special design, with V4A steel (material No. 1.4404) is resistant to hydrocarbons as well, and particularly resistant to aggressive substances in the soil.

The stock volumes for Funke VPC® Pipe Couplings can be reduced to just a few types, because the component covers a wide range of diameter differences. So, for example, we can have ...



... an SN 4 PVC U-pipe and a corrugated pipe ...

Product advantages

- Bedding channel on both sides for secure band guidance
- Cylindrical contact and sealing area
- Multiple double sealing profile
- No distortion in the rubber, thanks to the securing cage and sealing sleeve maintaining a neutral position
- Easy, fast, and secure assembly
- Tough, compact, and secure when it comes to handling

Practical advantages

- Connects pipes of different outside diameters and pipes made of different materials and different structural designs
- Bridging large diameter differentials without the use of additional compensation rings (bushes)
- Stepless adjustment on both sides, while maintaining complete security against shear loads
- Large surface cylindrical contact area or meshing of the pipes
- Center stop for accuracy in assembly (up to VPC 270)

Pipe Coupling: perfectly connected



... an SN 8 PVC U-pipe and a vitrified clay pipe ...



... or an SN 12 (HS®) PVC U-pipe and a ribbed pipe.

VPC Article No.	Outer diameter range/ clamping range		Max. Reduction mm
	from mm	to mm	
VPC 100	102	133	31
VPC 125	123	161	38
VPC 150	160	192	32
VPC 150 B	183	226	43
VPC 150 BF	200	261	61
VPC 200 K	183	226	43
VPC 200 G*	Only 200 with Eccentric Ring	261	61
	From 220 without Eccentric Ring		41
VPC 220	220	261	41
VPC 250*	Only 250 with Eccentric Ring	324	74
	From 270 without Eccentric Ring		54
VPC 270	270	324	54
VPC 290	240	290	50
VPC 310	255	310	55
VPC 325	265	325	60
VPC 345	285	345	60
VPC 360	295	360	65
VPC 382	315	382	67
VPC 400	330	400	70
VPC 415	345	415	70
VPC 430	360	430	70
VPC 455	385	455	70
VPC 465	395	465	70
VPC 485	415	485	70
VPC 500	430	500	70
VPC 520	450	520	70
VPC 535	465	535	70
VPC 555	485	555	70
VPC 565	495	565	70

VPC Article No.	Outer diameter range/ clamping range		Max. Reduction mm
	from mm	to mm	
VPC 590	520	590	70
VPC 605	535	605	70
VPC 625	555	625	70
VPC 640	570	640	70
VPC 660	590	660	70
VPC 675	605	675	70
VPC 690	620	690	70
VPC 710	640	710	70
VPC 730	660	730	70
VPC 745	675	745	70
VPC 765	695	765	70
VPC 780	710	780	70
VPC 805	735	805	70
VPC 820	750	820	70
VPC 835	765	835	70
VPC 850	780	850	70
VPC 870	800	870	70
VPC 890	820	890	70
VPC 905	835	905	70
VPC 925	855	925	70
VPC 940	870	940	70
VPC 960	890	960	70
VPC 980	910	980	70
VPC 995	925	995	70
VPC 1010	940	1010	70
VPC 1030	960	1030	70
VPC 1045	975	1045	70
VPC 1070	1000	1070	70

Connects all pipes within the listed outer diameter ranges (for corrugated and ripped pipes check pipe geometry and load bearing capacities)

*Eccentric ring for smooth pipes (PVC, PP, PE) for a level invert connection included in the scope of supply.

14 advantages at a

Low stock storage costs, because only a few types are needed to meet all operational situations.

The reduction process takes place centrally, uniformly, and separately on each side of the pipe coupling (two dimensional).

Multiple double sealing profile on each side.

A bedding channel on both sides for the tension bands ensures reliable and secure band guidance.

Thanks to the design of the tension bands and the size of the contact surface at the securing cage (min. 60 mm wide), the force application during the diameter adaptation process is spread evenly onto the pipe over the entire circumference.

Insertion is limited by a central protruding rubber lip (100 – 270).

glance

No additional compensation rings are needed to bridge even substantial diameter differences with the same nominal diameter (left OD 160, right OD 190).

Large-surface cylindrical contact and sealing area (60 mm per side).

Sealing tightness up to 2.5 bar – MPA tested (up to VPC 850).

2 or 4 tension bands respectively, made of stainless steel with click locking, ensure reliable, rapid, and uniform assembly.

Securing cage and sealing sleeve retain a neutral position during the diameter adjustment process, which means that sliding or folding of the rubber can be reliably avoided.

Stepless adjustment on both sides, with permanent securing against shear loads, tested in accordance with DIN 4060 and DIN EN 295 respectively.

Level invert transition area for connecting the same nominal diameters of the same or different materials with different outer structures (corrugated, ribbed, and smooth pipes).





The VPC® Pipe Coupling special type protects against oil and corrosion.

Reliable and not easy to degrade

Resistant to oil and petrol in accordance with DIN EN 681-1 WH

In the oil-resistant version, the components of the VPC® Pipe Coupling are made of V4A stainless steel (material No. 1.4404). This means that the special steel used is one of the steel grades which is particularly effective in its resistance to corrosion and acids. The moulded part is resistant to oil and petrol, and particularly effective in resisting the corrosive substances in waste water and in soil.

Funke introduced this special design as a response to the demands of the market. Clients can take advantage of the product when the soil surrounding a sewer pipe contains particularly corrosive constituents (such as salty soils in coastal areas), or if the waste water contains substances which could attack pipes and seals made of conventional materials, such as sleeves made of EPDM (ethylene-propylene-diene rubber), which is the case, for example, with pipes in the area of fuel filling stations. This is why we use NBR (acrylonitrile butadiene rubber), for pipe couplings which are particularly

VPC	Outer diameter range		Article No.
	from mm	to mm	
100 OEL	102	133	VPC 100 OEL
125 OEL	123	161	VPC 125 OEL
150 OEL	160	192	VPC 150 OEL
200 K OEL	183	226	VPC 200K OEL
200 G OEL *	Only 200 with Eccentric Ring	261	VPC 200G OEL
	From 220 without Eccentric Ring		
250 OEL *	Only 250 with Eccentric Ring	324	VPC 250 OEL
	From 270 without Eccentric Ring		
382 OEL	315	382	VPC 382 OEL

*Eccentric ring for smooth pipes (PVC, PP, PE) for a level invert connection included in the scope of supply.

resistant to oil and petrol. With the oil-resistant design, the spring cage is grey.





Repair – Upgrade – New construction

VPC provides a whole range of advantages, right where you need them – in the trench

A new moulded part from Funke takes care of particular problems in the civil engineering pipelaying sector. The VPC® Pipe Coupling allows for pipes of the same nominal diameter but made of different materials to be connected to one another securely and with best possible results, an advantage which more and more project managers and contracting companies involved in pipe upgrading work are really coming to appreciate.

For contractors this is already becoming an almost everyday situation. Take, for example, connecting the existing house connection pipes for rain water and waste water to the collecting pipe for the sewage system. On private properties, there is often a right old mix-up of materials present. And because different materials as a rule also feature different diameters, up to now there has had to be a lot of “make do and mend” involved, in trying to come up with a reasonable solution to making the transition. One example might be

the use of additional compensation rings. But all that's in the past, now that the VPC® Pipe Coupling has arrived.

Whether it's an upgrade, a repair, or laying a new pipe, the design advantages of the new moulded component make installation with different outer diameters so much easier.



Retrofitting a branch element into an existing vitrified clay pipe



Repairing defective pipes





Closure element

The VPC® Pipe Coupling consists of a sealing sleeve made of elastomer rubber, a securing cage made of plastic, and two special stainless steel bands, which form the closure element. The element is a click-in closure design (no welding or toxing).

When the screws of the special steel bands are tightened with a torque wrench during assembly, in accordance with the manufacturers' instructions – from a tightening range $\geq$ DN 290, the use of what is known as a tangential spanner is recommended – the sleeve will match up steplessly to the different outer diameters of the different pipe materials. The securing cage and sealing sleeve are designed in such a way that there is no risk of the rubber slipping or distorting during the diameter adaptation.

Compensation Rings (Bushes)

Compensation rings can be used with VPC® Pipe Couplings that have a clamping range greater than 300. They are designed to fit the product in such a way that they don't affect the pipe coupling's function or tightness. We manufacture custom-made compensation rings with a thickness of 15 mm on request.

They are available in all cut lengths and diameters and, if required, can be delivered at very short notice with the corresponding VPC® Pipe Coupling. Do not install more than three rings on top of each other during assembly.

The VPC® Pipe Coupling on the test stand: Shear load, angular deflection capacity, tightness

According to DIN 4060 (1998), **proof of tightness** must be provided with an opposite angular deflection as well as under shear load. In this context, proof of tightness of the connector is required up to an internal water pressure of 0.5 bar. For this purpose, the VPC® Pipe Coupling is third party tested in accordance with DIN 4060, at an angular deflection of 2% to 5% (depending on the nominal diameter) and under a shear load which corresponds to 10 times the nominal diameter in Newtons; for example, with a nominal diameter of DN 200, this is 2000 N = 2 kN = 200 kg.

Shear load

The effect of the shear load is carried out as a pipe line test on two pipes with one connector (in this case the VPC® Pipe Coupling). One pipe is mounted in a securely fixed position and the other is subjected to load (e.g. with weights). This causes a load to be imposed in the area between the two pipes, which must be borne by the connector without it suffering any damage. In the long-term test, the shear load is maintained for three months, and the connector is then again tested for water tightness.

Angular deflection

The test of the angular deflection is likewise carried out as a string test on two pipes with a connector. When the test is carried out, one pipe is securely mounted and the other secured at an angle at the free end. In this situation, for example, a value of 2% corresponds to an angular deflection of 20 mm per metre of pipe.

Tightness

As a departure from DIN 4060, the water pressure with the VPC® Pipe Coupling, instead of up to 0.5 bar, is increased up to 2.5 bar without deflection.

DIN 4060 applies to pipe connectors with elastomeric seals of all kinds. In addition to this, when two vitrified clay pipes are connected the somewhat more "stringently" formulated DIN EN 295 comes into effect. In this case, a shear load of 25 times the nominal diameter in Newtons is taken as the basis; with a nominal diameter of DN 200, this amounts to $25 \times 200 = 5,000 \text{ N} = 5 \text{ kN} = 500 \text{ kg}$. And likewise, with nominal diameters up to DN 200, the angular deflection increases from 5% to 8%.



High pressure jetting test according to DIN 19523 at iro GmbH institute in Oldenburg (Germany)

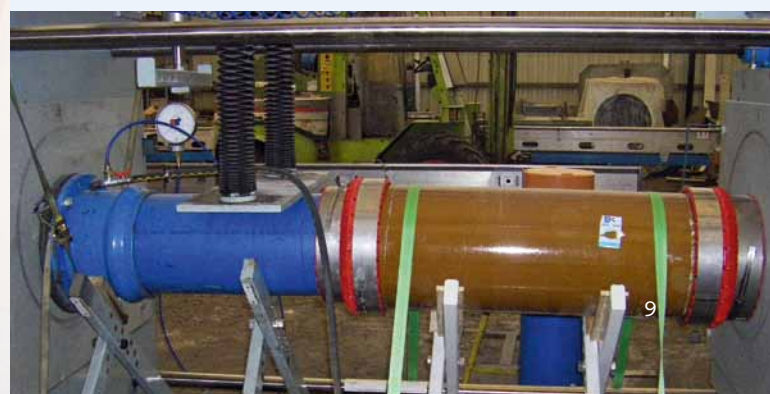
Third Party Testing and Approval



with DIBt Approval Z-42.5-450 for nominal diameters 100 – 1070

VPC® Pipe Coupling from Funke have been awarded the General Construction Supervisory Approval from the German Institute for Construction Technology (DIBt) for the nominal diameters 100 – 1070. These approvals are issued for building products and construction types in the scope of application of the Provincial building ordinances for which there are no generally recognised rules of the art, in particular no DIN Standards, or which deviate from them.

This means that the suitability for use and application of the moulded part in the meaning of the Provincial building ordinances has been conclusively proved – an added safety bonus for both clients and contractors alike.



Available in sizes
100 – 1070 mm!



The Complete Set

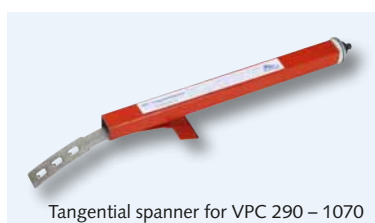
The VPC® Pipe Coupling in design formats 100 – 220 comes supplied in a carrying bag made of plastic film, which, as well as the product itself, also contains instructions for installation and for the correct application of the lubricant agents required. The four-language instructions (German, French, English, and Polish) provide an easy to follow guide to the different installation steps, based on clearly illustrative photos.

VPC® Pipe Couplings in formats from 250 and larger are delivered in a sturdy carton, and in larger numbers come on a pallet.

Accessories



Box spanner for VPC 100 – 150



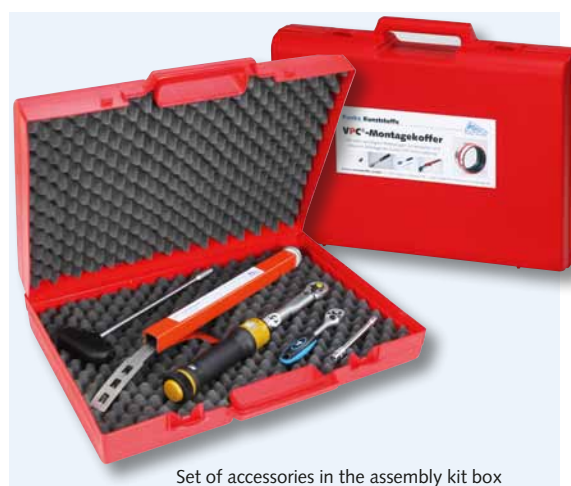
Tangential spanner for VPC 290 – 1070



Set of reversible ratchets for
VPC 100 – 270



Torque wrench for VPC 100 – 1070



Set of accessories in the assembly kit box

Installation Recommendation

○ VPC 100/125/150/200K/220/270

Measure the outer diameters of both pipes (1) and compare them with the range of the Funke VPC® Pipe Coupling.

The range of the Funke VPC® Pipe Coupling is shown on the label (2), or can be determined by measuring the inner diameter of the coupling. Measure the insertion depth of the Funke VPC® Pipe Coupling as far as the protruding lip on the inside (3) and mark this on the larger pipe (4).

Important: Once the outer diameters have been determined of both pipes which are to be connected, bring the Funke VPC® Pipe Coupling up to the larger pipe diameter by alternating rotation of the two pipe hangers (5).

If necessary, apply the lubricant thinly onto the spigot end of the pipe which is to be connected (e.g. concrete or vitrified clay pipes).



1

Push the Funke VPC® Pipe Coupling onto the spigot end of the larger pipe as far as the marking, making sure that the screws of the tension sleeve are facing upwards (6+7).

The joint in the connection is to be maintained in accordance with the specific instructions from the individual pipe manufacturers (a small gap is to be recommended with regard to the angular deflection capacity and expansion). Once the Funke VPC® Pipe Coupling has been aligned, first tighten the tension sleeve on the larger pipe to 17 Nm (9). If possible, check this with a torque wrench. Next, tighten the opposite tension sleeve to the same torque value (10).

We recommend the use of a hexagonal box spanner (8 mm) with a T-grip (11) as an aid, or a set of interchangeable ratchets (12) in cases of frequent use.



2



3



4



5



6



7



8



9



10



11



12



Installation Recommendation

○ VPC 200 G / 250

For pipes with DN/OD 200 (outer diameter 200 mm) and DN/OD 250 (outer diameter 250 mm), an eccentric ring is required (included in the scope of supply) in order to achieve a level invert connection.

As a departure from the installation instructions described on page 11, the following preparations need to be made:

Measure the insertion depth of the Funke VPC® Pipe Coupling as far as the centre stop on the inside (3) and mark this on the pipe with the larger outer diameter (4).

Then carry out points 5 + 7.

Draw the eccentric ring onto the spigot end of the DN/OD 200 pipe (outer diameter 200 mm) as far as the inside stop, or onto the DN/OD 250 pipe (outer diameter 250 mm) (16).

Then lead the pipe prepared in this way, with the eccentric ring fitted, to the Funke VPC® Pipe Coupling, making sure that the red marking always remains visible on the apex (17).

Push the pipe in until the eccentric ring closes on the outside flush with the Funke VPC® Pipe Coupling (18).

Then continue as described under Points 9-12 of the laying instructions, and tighten the screws on the tension sleeves to 17 Nm.



Special case: Pipe repair:

When it comes to repairing a pipe, first push the two Funke VPC® Pipe Couplings complete onto the pipe spigot which is to be inserted (13). Then introduce the repair piece into the open pipe line, and push the Funke VPC® Pipe Coupling onto the pipe end presented (14), in accordance with the installation instructions already described (points 3-12). This is of particular advantage with vitrified clay pipes.



When profiled, corrugated, or ribbed pipes are involved, make sure that the load carrying capacity of the pipe/profile is sufficient, and check the contact areas at the seal surface of the Funke VPC® Pipe Coupling. The slot openings must be free of dirt or stones during the reduction process, so that the diameter adjustment to the individual pipe which is to be connected in each case can be carried out unimpeded. The backfill and compaction of the pipe bed is to be carried out with suitable material, in accordance with the applicable installation guidelines – Standard EN 1610.

Storage

In enclosed areas, ensure there is adequate ventilation, and if stored in the open/outside, protect against intense sunlight/UV radiation.

Installation Recommendation

○ with Tangential Spanner from VPC 290

With ranges from 290 mm to 1070 mm, the use of what is referred to as a Tangential Spanner makes the installation of the VPC® Pipe Coupling considerably easier. First, the range of the pipes which are to be connected is determined, and the sleeve required for this is chosen. The spigot ends are coated with lubricant and then fitted onto the pipe with the larger nominal diameter. Once the pipe coupling has been aligned, the VPC® Tangential Spanner with the retaining foot

is pushed under the tension sleeves. The spoon of the draw arm is then hooked into the retaining eye and tightened with a torque wrench. Next, the two tension sleeves are tightened alternately. This procedure is repeated accordingly with the introduction of the other pipe (the right to introduce technical modifications is reserved). The VPC® Tangential Spanner and detailed installation instructions are available from Funke (see the table below for the tightening torque values).



Stepless
diameter
adaptation

VPC nominal diameter	290 – 590 mm	600 – 790 mm	800 – 1070 mm
Torque on VPC Tangential Spanner	17 Nm	20 Nm	22 Nm
Torque on the tensions sleeves	9 Nm	10 Nm	11 Nm

Torque setting, right to introduce technical modifications reserved

Whether round or with a foot

Perfect transition

Circular concrete pipe transition onto plastic 150 – 800



An adapter is available for connecting plastic pipes to circular concrete pipes in nominal diameters DN 250 to 800, which compensates for the substantial difference in the thickness of the pipe wall inevitably incurred by the material.

For connecting plastic pipes to circular concrete pipes with nominal diameter of DN 150, a special solution is available in the form of a small adapter.

Adapter and sleeve for the nominal diameter ranges from DN 250 to DN 800 are available individually. The transition element to a circular concrete pipe with DN 150 is provided in the set (Article No. VPC 150 B).

Transition		Product-Code VPC Pipe Coupling		Product-Code VPC-Adapter KB	Clamping range of VPC-Pipe Coupling
DN 250 Concrete to DN/OD 250 Plastic	=	VPC 382	+	VPCBA250	315 – 382 mm
DN 300 Concrete to DN/OD 315 Plastic	=	VPC 455	+	VPCBA300	385 – 455 mm
DN 400 Concrete KW ¹⁾ to DN/OD 400 Plastic	=	VPC 565	+	VPCBA400	495 – 565 mm
DN 500 Concrete KW ¹⁾ to DN/OD 500 Plastic	=	VPC 690	+	VPCBA500	620 – 690 mm
DN 600 Concrete KW ¹⁾ to DN/OD 630 Plastic	=	VPC 805	+	VPCBA600	735 – 805 mm
DN 700 Concrete KW ¹⁾ to DN/OD 710 Plastic	=	VPC 940	+	VPCBA700	870 – 940 mm
DN 800 Concrete KW ¹⁾ to DN/OD 800 Plastic	=	VPC 1070	+	VPCBA800	1000 – 1070 mm

Order-Form for transitions from plastic to concrete (circular) pipes with VPC® Pipe Coupling and VPC®-Adapter KB

¹⁾ KW = circular, increased wall thicknesses



The result: Inside view – centric tight transition!



onto concrete

Transition for concrete pipe with foot (base), DN 150



VPC®-Adapter KB



VPC® Pipe Coupling



VPC®-Adapter 150 BF

The Funke VPC® Pipe Coupling in the VPC 150 BF version (for concrete pipes with outer diameters from 210 to 215 mm) can also be used for connection with a concrete pipe with a foot (base). For this, the VPC®-Adapter 150 BF is needed in addition to the VPC®-Adapter KB.

During installation, the VPC®-Adapter 150 BF is placed onto the existing concrete pipe with a foot in such a way that it closes flush with the edge of the concrete. The VPC® Pipe Coupling is then pushed on, and fitted as described in the installation instructions. The VPC®-Adapter KB is then positioned in front of the concrete pipe and connected in accordance with the installation instructions provided. Both components are available as a set within the scope of supply.



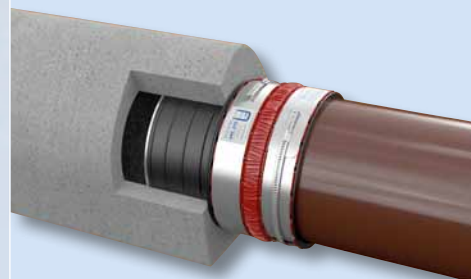
Concrete pipe with foot, with VPC®-Adapter 150 BF drawn on ...



... and in the next step, with the VPC® Pipe Coupling.

Funke BI-Adapter®

To connect pipes with non-circular outer geometry use the Funke BI-Adapter® available from DN 100 up to DN 600.



Coupling/adaptor for ovoid (egg-shaped) pipe up on request



DN 150 to DN 600



DN 100, DN 125 and 150

Table of pipe outer diameters

	Article-No.	VPC 100	VPC 125	VPC 150	VPC 150 B	VPC 150 BF	VPC 200K	VPC 200G	VPC 220	VPC 250	VPC 270	VPC 382	VPC 455	VPC 500
Pipe type	Standard	102-133 mm	123-161 mm	160-192 mm	183-226 mm	200-261 mm	183-226 mm	200, 220-261 mm	220-261 mm	250, 270-324 mm	270-324 mm	315-382 mm	385-455 mm	430-500 mm
PVC-U Drainage	DIN EN 1401	110	125	160			200	200 E		250 E		315	400	500
KG 2000	DIN EN 14758	110	125	160			200	200 E		250 E		315	400	
PP	DIN EN 1852	110	125	160			200	200 E		250 E		315	400	500
HDPE	DIN EN 12666	110	125	160			200	200 E		250 E		315	400	500
GRP	DIN EN 16556/16865	116 (DN 100)	142 (DN 125)	167 (DN 150)			220 (DN 200)	220 (DN 200)	220 (DN 200)	272 (DN 250)	272 (DN 250)	324 (DN 300)	427 (DN 400)	
Ultra Rib	DIN EN 13467			170 (DN 150)			225 (DN 200)	225 (DN 200)	225 (DN 200)	280 (DN 250)	280 (DN 250)	335 (DN 300)	450 (DN 400)	
Robukan PP	DIN EN 13467			174 (DN 150)				235 (DN 200)	235 (DN 200)	292 (DN 250)	292 (DN 250)	346 (DN 300)		461 (DN 400)
GCI*1	DIN EN 598	118 (DN 100)	144 (DN 125)	170 (DN 150)			222 (DN 200)	222 (DN 200)	222 (DN 200)	274 (DN 250)	274 (DN 250)	326 (DN 300)	429 (DN 400)	
SML		110 (DN 100)	135 (DN 125)	160 (DN 150)			210 (DN 200)			274 (DN 250)	274 (DN 250)	326 (DN 300)	429 (DN 400)	
VCP*2 N	DIN EN 295	122-131 (DN 100)	159 (DN 125)	178-186 (DN 150)				242 (DN 200)	242 (DN 200)	299 (DN 250)	299 (DN 250)	355 (DN 300)		486 (DN 400)
VCP*2 H	DIN EN 295							254 (DN 200)	254 (DN 200)	318 (DN 250)	318 (DN 250)	376 (DN 300)		492 (DN 400)
VCP*2 Clay Jacking Pipe					213 (DN 150)					276 (DN 200)	276 (DN 200)	355 (DN 250)		
FZ Kl. B Fibre Cement		118 (DN 100)	143 (DN 125)	170 (DN 150)			222 (DN 200)	222 (DN 200)	222 (DN 200)	274 (DN 250)	274 (DN 250)	328 (DN 300)	448 (DN 400)	
FZ Kl. A Fibre Cement		116 (DN 100)	141 (DN 125)	168 (DN 150)			220 (DN 200)						442 (DN 400)	
AC		116 (DN 100)	141 (DN 125)	168 (DN 150)			220 (DN 200)	220 (DN 200)	220 (DN 200)	274 (DN 250)	274 (DN 250)	328 (DN 300)	432 (DN 400)	
CCP*3 Concrete Pipe	DIN EN 1916/V1201/4032		144 (DN 100)		198 (DN 150)	215 (DN 150)	198 (DN 150)	252 (DN 200)	252 (DN 200)	310 (DN 250)	310 (DN 250)		420-455* (DN 300)	

	Article-No.	VPC 565	VPC 590	VPC 625	VPC 690	VPC 730	VPC 805	VPC 850	VPC 905	VPC 940	VPC 980	VPC 1010	VPC 1070	
Pipe type	Standard	495-565 mm	520-590 mm	555-625 mm	620-690 mm	660-730 mm	735-805 mm	780-850 mm	835-905 mm	870-940 mm	910-980 mm	940-1010 mm	1000-1070 mm	
PVC-U Drainage	DIN EN 1401	500			630	710	800		900	900		1000		
KG 2000	DIN EN 14758													
PP	DIN EN 1852	500			630	710	800		900	900		1000		
HDPE	DIN EN 12666	500			630	710	800		900	900		1000		
GRP	DIN EN 14364	530 (DN 500)	530 (DN 500)	616 (DN 600)		718 (DN 700)		820 (DN 800)		924 (DN 900)	924 (DN 900)		1026 (DN 1000)	
Ultra Rib	DIN EN 13467	560 (DN 500)	560 (DN 500)											
Robukan PP	DIN EN 13467		585 (DN 500)	585 (DN 500)		693 (DN 600)								
GCI*1	DIN EN 598	532 (DN 500)	532 (DN 500)		635 (DN 600)		738 (DN 700)	842 (DN 800)	842 (DN 800)		945 (DN 900)		1048 (DN 1000)	
SML		532 (DN 500)	532 (DN 500)		635 (DN 600)									
VCP*2 N	DIN EN 295		581 (DN 500)	581 (DN 500)	687 (DN 600)		795 (DN 700)	795 (DN 700)		895 (DN 800)		1008 (DN 900)		
VCP*2 H	DIN EN 295			609 (DN 500)		725 (DN 600)		831 (DN 700)			941 (DN 800)			
VCP*2 Clay Jacking Pipe		556 (DN 400)	556 (DN 400)	556 (DN 400)	658 (DN 500)				862 (DN 800)			970 (DN 800)		
FZ Kl. B Fibre Cement		556 (DN 500)	556 (DN 500)	556 (DN 500)	664 (DN 600)		778 (DN 700)		888 (DN 800)	888 (DN 800)		998 (DN 900)		
FZ Kl. A Fibre Cement		552 (DN 500)	552 (DN 500)		658 (DN 500)		768 (DN 700)		876 (DN 800)	876 (DN 800)	961 (DN 900)		1068 (DN 1000)	
AC		540 (DN 500)	540 (DN 500)		646 (DN 500)		750 (DN 700)		856 (DN 800)		961 (DN 900)		1068 (DN 1000)	
CCP*3 Concrete Pipe	DIN EN 1916/V1201	530-565* (DN 400)			640-690 (DN 500)		760-800 (DN 600)		835-905* (DN 700)	870-930* (DN 700)		980-1010* (DN 800)	1000-1070* (DN 800)	

Funke Kunststoffe GmbH

Siegenbeckstraße 15 • D-59071 Hamm-Uentrop
(Industriegebiet Uentrop Ost)

Tel.: +49 (0) 2388 3071-0 • Fax: +49 (0) 2388 3071-7550

info@funkegruppe.de • www.funkegruppe.de

GCI*1 = grey cast iron

VCP*2 = vitrified clay pipe

CCP*3 = circular concrete pipe

*Varying dimensions due to regional requirements possible.

Values in mm, E = Eccentric ring

The dimensions correspond to the standards and guidelines specified. Maximum tolerances have not been taken into account. Tolerances inevitably incurred by the manufacturers are also possible.