

Valid from April 2024

GEBERIT

HDPE

CATALOGUE

TRADE WASTE, STACK AND SIPHONIC ROOF
DRAINAGE

**KNOW
HOW**
INSTALLED

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Geberit HDPE

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Geberit PE systems - Overview

Geberit PE is the state of the art in drainage systems and is a real alternative to systems made of conventional materials. It combines flexibility with robustness and reliability. Geberit PE is the complete solution for all types of drainage, both above and below ground and with regard to chemical waste. The system is manufactured from high density polyethylene, a material with inherent characteristics which offer numerous advantages compared to conventional piping systems.

Geberit PE provides specifiers and installers with a complete solution for all types of drainage both above and below ground. The properties of Geberit PE offer numerous advantages compared to conventional piping systems, including resistance to fracturing, abrasion, impact and extremes of temperature. Combined with the flexibility of several jointing methods and the option of off-site prefabrication, Geberit PE offers substantial material and labour savings.

Certification and Approvals

The Geberit PE products are Water Mark approved and comply to Australian Standards. For more information please refer to our website, www.geberit.com.au or call 1800 GEBERIT.

- AU standards
- AS/NZS4401
- AS/NZS5065
- AS/NZS/ISO9001

global-mark

Certificate of Conformity

This certificate confirms that the company below complies with the following standard(s):

Company Name / Approval	Geberit Pty Ltd	WaterMark WH number	GM-WM-01011-101-R00
Company Other Name		Approval Date To	02 9889 7866
Approved User ABN (if any)	44 101 224 273	Client ID	100150
JMS-ANZ Scheme	WaterMark Certification Scheme 2016	Approved User web site	www.geberit.com.au
Certification Standard (s)	AS/NZS 3863:2005 - Polyethylene and polypropylene pipes and fittings for drainage and sewerage applications		

CERTIFICATE DATES

Initial Certification / Re-Certification	3/02/2008	Certification Expiry	2/10/2027
Last Certification Decision (current certification)	18/11/2022		

APPROVED COMPANY/SITE ADDRESS(ES):
Unit 1, 11 Boundary Road, Northmead NSW 2152 Australia
Schachenstrasse 77 Jona - CH-8645 Switzerland
Viale del Lavoro 4 Villadose (RO) I-45010 Italy
Geberitstrasse 1 Pottenbrunn - Austria

Subject to the following conditions and limitations:
1. The Approved User grants the right to use as a mark, the use of the WaterMark as shown in the top left corner only in respect of the Products described and detailed on the Product Schedule following which are produced by the Approved User and which comply with the appropriate applicable Specifications referenced below and as amended from time to time. The license is granted subject to the ongoing payment of the WaterMark fee and the terms and conditions for certification. The WaterMark Licensee must comply with the Rules, Technical documents, documents and standards of the WaterMark Certification Scheme.
2. This Certificate is issued by JMS-ANZ accredited certification body. The Scheme Owner, Administering Body, and Accreditation Body do not in any way warrant, guarantee or represent that the product the subject of this Certificate conforms to the WaterMark Certification Scheme Rules, nor compliance liability arising out of the use of the product. The Scheme Owner does not in any way warrant, guarantee or represent that the product the subject of this Certificate conforms to the WaterMark Certification Scheme Rules, nor compliance liability arising out of the use of the product. The Scheme Owner does not in any way warrant, guarantee or represent that the product the subject of this Certificate conforms to the WaterMark Certification Scheme Rules, nor compliance liability arising out of the use of the product.
3. The WaterMark is a registered certification mark of the Scheme Owner (ABN 74 101 224 273). The rules of the WaterMark Certification Scheme are available from the MCB website www.mcb.org.au.
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Certification Manager
Global-Mark Pty Ltd 627 101 057 106, 41 Dicks Road, North Ryde NSW 2113, Australia - Copyright 2023
Tel: + 61 2 9886 0222 - www.Global-Mark.com.au



Certificate

The SQS herewith attests that the organisation named below has a management system that meets the requirements of the normative basis mentioned.

Geberit International AG
Schachenstrasse 77
8645 Jona
Switzerland

Further sites according to appendix

Scope

Development, production, marketing, sales and distribution of sanitary products (installation, flushing, piping and bathroom systems)

Normative basis

ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System
ISO 45001:2018 Occupational Health and Safety Management System

Reg. no. H20644

Validity 06.10.2021 – 14.09.2024
Issue 01.01.2022

A. Grisard
A. Grisard, President SQS

F. Müller
F. Müller, CEO SQS

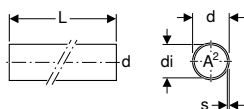
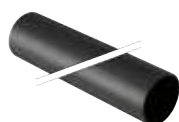


Swiss Association for Quality and Management Systems (SQS)
Bernstrasse 103, 3052 Zollikofen, Switzerland



Pipes

Geberit HDPE pipe



click & scan

Application purposes

- For building drainage
- For site drainage

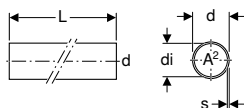
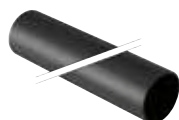
Characteristics

- UV-resistant

Technical data

Product material		PE-HD							
Art. no.	Reece no.	DN	d, ø [mm]	di, ø [mm]	s [mm]	L [m]	A² [cm²]	PN [bar]	S
360.000.16.0	1430000	40	40	34	3	5	9	8.1	12.5
361.000.16.0	1430002	50	50	44	3	5	15.2	6.4	12.5
363.000.16.0	1430004	56	56	50	3	5	19.6	5.7	12.5
364.000.16.0	1430006	60	63	57	3	5	25.4	5	12.5
365.000.16.0	1430008	70	75	69	3	5	37.3	4.1	12.5
366.000.16.0	1430010	90	90	83	3.5	5	54.1	4	12.5
367.000.16.0	1430012	100	110	101.4	4.3	5	80.7	4	12.5
368.000.16.0	1430014	125	125	115.2	4.9	5	104.5	4	12.5
369.000.16.0	1430016	150	160	147.6	6.2	5	171.1	4	12.5
370.000.16.0	1430018	200	200	187.6	6.2	5	276.4	3.2	16
371.000.16.0	1430020	250	250	234.4	7.8	5	431.5	3.2	16
372.000.16.0	1430022	300	315	295.4	9.8	5	685.3	3.2	16

Geberit HDPE pipe PN4



click & scan

Application purposes

- For building drainage
- For site drainage
- For discharge pipes with increased negative pressure

Characteristics

- UV-resistant

Technical data

Product material		PE-HD							
Art. no.	Reece no.	DN	d, ø [mm]	di, ø [mm]	s [mm]	L [m]	A² [cm²]	PN [bar]	S
370.050.16.0	1430027	200	200	184.6	7.7	5	268.4	4	12.5
371.050.16.0	1430028	250	250	230.6	9.7	5	418.2	4	12.5
372.050.16.0	1430029	300	315	290.6	12.2	5	663.8	4	12.5



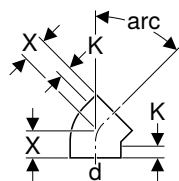
- SDR26



Fittings

Bends

Geberit HDPE bend



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Application purposes

- For building drainage
- For site drainage

Characteristics

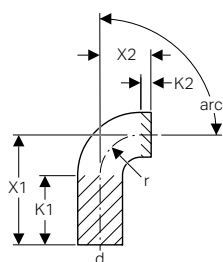
- Can be welded on both sides with electrofusion coupling
- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, Ø [mm]	X [cm]	K [cm]
arc / angle: 45°					
360.045.16.1	1430100	40	40	4	2
361.045.16.1	1430101	50	50	4.5	2
363.045.16.1	1430102	56	56	4.5	2
364.045.16.1	1430103	60	63	5	2
365.045.16.1	1430104	70	75	5	2
366.045.16.1	1430105	90	90	5.5	2
367.045.16.1	1430106	100	110	6	2.5
368.045.16.1	1430107	125	125	6.5	2.5
369.045.16.1	1430108	150	160	6.9	2
370.045.16.1	1430109	200	200	18	2.5
arc / angle: 88.5°					
361.088.16.1	1430240	50	50	6	2
363.088.16.1	1430241	56	56	6.5	2
364.088.16.1	1430242	60	63	7	2
365.088.16.1	1430243	70	75	7.5	2
366.088.16.1	1430244	90	90	8	2
367.088.16.1	1430245	100	110	9.5	2.5
369.088.16.1	1430246	150	160	12	2.5

Geberit HDPE bend with large leg



click & scan

Application purposes

- For building drainage
- For site drainage

Characteristics

- Large radius
- UV-resistant

Technical data

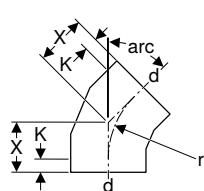
Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	X1 [cm]	X2 [cm]	K1 max. [cm]	K2 max. [cm]	r [cm]
arc / angle: 15°								
367.015.16.1	1430145	100	110	18	7	15.5	4.5	
369.015.16.1	1406967	150	160	7.5	7.5	4.5	4.5	
arc / angle: 30°								
367.030.16.1	1430146	100	110	19.5	8.5	15.5	4.5	
369.030.16.1	1406968	150	160	9.5	9.5	4.5	4.5	
arc / angle: 88.5°								
363.051.16.1	1430140	56	56	21	8.5	17	0	4
365.051.16.1	1430142	70	75	21	11.5	14	0	7
367.051.16.1	1430144	100	110	27	14.5	17	0	10
arc / angle: 90°								
360.055.16.1	1430114	40	40	15	3	12		3
361.055.16.1	1430126	50	50	18	4	14		4
363.055.16.1	1430127	56	56	21	4	17		4
364.055.16.1	1430128	60	63	21	5	16		5
365.055.16.1	1430129	70	75	21	7	14		7
366.055.16.1	1430130	90	90	24	9	15		9
367.055.16.1	1430131	100	110	27	10	17		10
368.055.16.1	1430132	125	125	20	11	9		11
369.055.16.1	1430133	150	160	20	14	6		14



- Short leg on 90 degree bends connected by butt welding
- Geberit HDPE bend with angles 15°, 30°, 45° and 88.5° can be welded on both legs with Geberit electrofusion couplings
- Geberit HDPE bend with angle 90° can be welded on the long leg with Geberit electrofusion couplings

Geberit HDPE segment bend



click & scan

Application purposes

- For building drainage
- For site drainage

Characteristics

- Can be welded on both sides with electrofusion coupling
- UV-resistant

Technical data

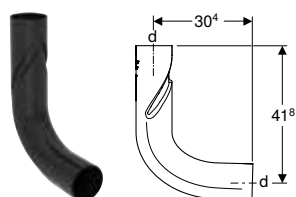
Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	X [cm]	K [cm]	r [cm]
arc / angle: 15°						
370.015.16.1		200	200	15.5	4	
371.015.16.1		250	250	10.3	0	
372.015.16.1		300	315	10.3	0	



Art. no.	Reece no.	DN	d, ø [mm]	X [cm]	K [cm]	r [cm]
arc / angle: 30°						
370.030.16.1		200	200	15	2	20
371.030.16.1		250	250	16	0	42
372.030.16.1		300	315	17	0	47.3
arc / angle: 45°						
371.045.16.1	1430110	250	250	16.5	0	29
372.045.16.1	1430111	300	315	18	0	32.5
arc / angle: 90°						
370.055.16.1	1430134	200	200	30	2.5	20
371.055.16.1	1430135	250	250	33.5	0	29
372.055.16.1	1430136	300	315	37	0	32.5

Geberit PE BottomTurn bend



click & scan

Application purposes

- For building drainage
- For buildings with more than five floors (high-rise buildings)
- For use with Geberit PE Sovent fitting d110

Characteristics

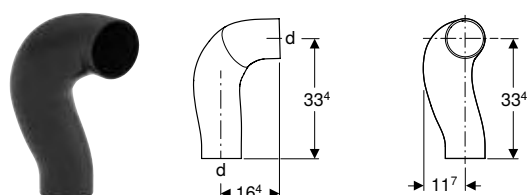
- Can be welded on both sides with electrofusion coupling
- UV-resistant
- With SuperTube technology

Technical data

Discharge rate	≤ 12 l/s
Product material	PE-HD

Art. no.	Reece no.	Colour / surface	DN	d, ø [mm]	arc [°]
367.615.16.1	1430247	black	100	110	90

Geberit PE BackFlip bend



click & scan

Application purposes

- For building drainage
- For buildings with more than five floors (high-rise buildings)
- For use with Geberit PE Sovent fitting d110

Characteristics

- Can be welded on both sides with electrofusion coupling
- UV-resistant
- With SuperTube technology

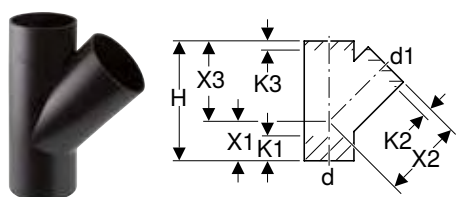
Technical data

Discharge rate	≤ 12 l/s
Product material	PE-HD

Art. no.	Reece no.	Colour / surface	DN	d, ø [mm]	arc [°]
367.616.16.1	1430248	black	100	110	90

Branch fittings

Geberit HDPE branch fitting 45°



click & scan

Application purposes

- For building drainage
- For site drainage

Characteristics

- UV-resistant

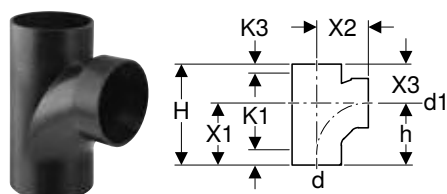
Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	arc [°]	H [cm]	X1 [cm]	X2 [cm]	X3 [cm]	K1 max. [cm]	K2 max. [cm]	K3 max. [cm]
360.109.16.1	1431068	40 / 40	40	40	45	13.5	4.5	9	9	2.5	3	3
361.109.16.1	1433163	50 / 40	50	40	45	16.5	5.5	11	11	4	4.5	4.5
361.112.16.1	1430278	50 / 50	50	50	45	16.5	5.5	11	11	3.5	2	2
363.115.16.1	1430280	56 / 56	56	56	45	18	6	12	12	4	2.5	2.5
364.112.16.1	1430282	60 / 50	63	50	45	19.5	6.5	13	13	5	3	3
364.115.16.1	1430283	60 / 56	63	56	45	19.5	6.5	13	13	4.5	2.5	2.5
364.120.16.1	1430284	60 / 60	63	63	45	19.5	6.5	13	13	4	2	2
365.109.16.1	1433197	70 / 40	75	40	45	21	7	14	14	6.5	5	6
365.112.16.1	1430285	70 / 50	75	50	45	21	7	14	14	6	3	4
365.115.16.1	1430286	70 / 56	75	56	45	21	7	14	14	5.5	2.5	3.5
365.120.16.1	1433198	70 / 60	75	63	45	21	7	14	14	4.5	2.5	3.5
365.125.16.1	1430288	70 / 70	75	75	45	21	7	14	14	4	2.5	2.5
366.109.16.1	1433571	90 / 40	90	40	45	24	8	16	16	7.5	5.5	6.5
366.112.16.1	1430251	90 / 50	90	50	45	24	8	16	16	8	4	5
366.115.16.1	1430252	90 / 56	90	56	45	24	8	16	16	7.5	3.5	4.5
366.120.16.1	1431064	90 / 60	90	63	45	24	8	16	16	7	3	4
366.125.16.1	1430254	90 / 70	90	75	45	24	8	16	16	6.5	3	3.5
366.130.16.1	1430289	90 / 90	90	90	45	24	8	16	16	5	2	2
367.109.16.1	1433582	100 / 40	110	40	45	27	9	18	18	9.5	6	7.5
367.112.16.1	1430256	100 / 50	110	50	45	27	9	18	18	9.5	5	5.5
367.115.16.1	1430290	100 / 56	110	56	45	27	9	18	18	9	4	4.5
367.120.16.1	1430291	100 / 60	110	63	45	27	9	18	18	8.5	3.5	4
367.125.16.1	1430257	100 / 70	110	75	45	27	9	18	18	7.5	3	3.5
367.130.16.1	1430258	100 / 90	110	90	45	27	9	18	18	6.5	2.5	3
367.135.16.1	1430292	100 / 100	110	110	45	27	9	18	18	5.5	2	2
368.120.16.1	1430266	125 / 60	125	63	45	30	10	20	20	10.5	4.5	6
368.125.16.1	1430267	125 / 70	125	75	45	30	10	20	20	9.5	4	5
368.130.16.1	1430268	125 / 90	125	90	45	30	10	20	20	8.5	3	3.5
368.135.16.1	1430269	125 / 100	125	110	45	30	10	20	20	7	2.5	2.5
368.139.16.1	1430270	125 / 125	125	125	45	30	10	20	20	6	2	2
369.125.16.1	1430271	150 / 70	160	75	45	37.5	12.5	25	25	13.5	6.5	7.5
369.130.16.1	1430274	150 / 90	160	90	45	37.5	12.5	25	25	12.5	5.5	6.5
369.135.16.1	1430294	150 / 100	160	110	45	37.5	12.5	25	25	11	4.5	5.5
369.139.16.1	1430272	150 / 125	160	125	45	37.5	12.5	25	25	10	4	5
369.145.16.1	1430273	150 / 150	160	160	45	37.5	12.5	25	25	7.5	2.5	2.5
370.125.16.1	1433627	200 / 70	200	75	45	54	18	36	36	8.5	10	2.5
370.135.16.1	1430295	200 / 100	200	110	45	54	18	36	36	7.5	10	0
370.139.16.1	1430300	200 / 125	200	125	45	54	18	36	36	5.5	9	0
370.145.16.1	1430296	200 / 150	200	160	45	54	18	36	36	4	5.5	0
370.146.16.1	1430301	200 / 200	200	200	45	54	18	36	36	0	0	0
371.135.16.1	1430302	250 / 100	250	110	45	66	22	44	44	14	10	7.5
371.139.16.1	1430303	250 / 125	250	125	45	66	22	44	44	13	13	6.5
371.145.16.1	1430297	250 / 150	250	160	45	66	22	44	44	10.5	10	0
371.146.16.1	1430304	250 / 200	250	200	45	66	22	44	44	7.5	0	1.5
371.147.16.1	1430298	250 / 250	250	250	45	66	22	44	44	4	0	0
372.135.16.1	1431120	300 / 100	315	110	45	84	28	56	56	23	20	16
372.145.16.1	1430306	300 / 150	315	160	45	84	28	56	56	19.5	17.5	12.5
372.146.16.1	1430307	300 / 200	315	200	45	84	28	56	56	16.5	5	10
372.147.16.1	1430308	300 / 250	315	250	45	84	28	56	56	13	5.5	6.5
372.148.16.1	1430309	300 / 300	315	315	45	84	28	56	56	8.5	2	2



Geberit HDPE branch fitting 88.5°, swept-entry



click & scan

Application purposes

- For building drainage

Characteristics

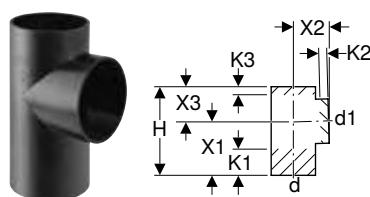
- Swept entry
- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	arc [°]	H [cm]	h [cm]	X1 [cm]	X2 [cm]	X3 [cm]	K1 max. [cm]
367.163.16.1	1430336	100 / 100	110	110	88.5	22.5	13.8	13.5	11.5	9	2.5

Geberit HDPE branch fitting 88.5°



click & scan

Application purposes

- For building drainage
- For site drainage

Characteristics

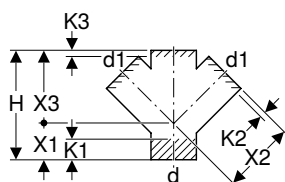
- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	arc [°]	H [cm]	X1 [cm]	X2 [cm]	X3 [cm]	K1 max. [cm]	K2 max. [cm]	K3 max. [cm]
360.159.16.1	1433156	40 / 40	40	40	88.5	13	7.5	5.5	5.5	4.5	2.5	2.5
361.159.16.1	1433164	50 / 40	50	40	88.5	15	9	6	6	6	2.5	3
361.162.16.1	1430314	50 / 50	50	50	88.5	15	9	6	6	5.5	2.5	2.5
363.162.16.1	1433176	56 / 50	56	50	88.5	17.5	10.5	7	7	7	3	3.5
363.165.16.1	1430316	56 / 56	56	56	88.5	17.5	10.5	7	7	6.5	3	3
364.170.16.1	1430320	60 / 60	63	63	88.5	17.5	10.5	7	7	6	3	3
365.159.16.1	1433560	70 / 40	75	40	88.5	17.5	10.5	7	7	7.5	2.5	4
365.162.16.1	1430322	70 / 50	75	50	88.5	17.5	10.5	7	7	7	2.5	3.5
365.165.16.1	1430323	70 / 56	75	56	88.5	17.5	10.5	7	7	6.5	2.5	3
365.170.16.1	1433561	70 / 60	75	63	88.5	17.5	10.5	7	7	6	2.5	2.5
365.175.16.1	1430325	70 / 70	75	75	88.5	17.5	10.5	7	7	5.5	2.5	2.5
366.180.16.1	1430906	90 / 90	90	90	88.5	20	12	8	8	6.5	2.5	2.5
367.159.16.1	1433583	100 / 40	110	40	88.5	22.5	13.5	9	9	10	2.5	6
367.162.16.1	1430326	100 / 50	110	50	88.5	22.5	13.5	9	9	9.5	2.5	5
367.165.16.1	1430908	100 / 56	110	56	88.5	22.5	13.5	9	9	9	2.5	4.5
367.170.16.1	1430909	100 / 60	110	63	88.5	22.5	13.5	9	9	9	2.5	4
367.175.16.1	1433584	100 / 70	110	75	88.5	22.5	13.5	9	9	8.5	2.5	3.5
367.180.16.1	1433585	100 / 90	110	90	88.5	22.5	13.5	9	9	7.5	2.5	3
367.185.16.1	1430327	100 / 100	110	110	88.5	22.5	13.5	9	9	6.5	2	2
369.175.16.1	1433621	150 / 70	160	75	88.5	35	21	14	14	15	4.5	8
369.185.16.1	1430912	150 / 100	160	110	88.5	35	21	14	14	13.5	4.5	6
369.195.16.1	1430335	150 / 150	160	160	88.5	35	21	14	14	10.5	3.5	3
370.185.16.1	1433742	200 / 100	200	110	88.5	36	18	18	18	0	3	0
370.195.16.1	1433743	200 / 150	200	160	88.5	36	18	18	18	0	2	0
370.196.16.1	1433744	200 / 200	200	200	88.5	40	20	20	20	0	0	0
371.185.16.1	1433745	250 / 100	250	110	88.5	44	22	22	22	3.5	4	3.5
372.195.16.1	1433748	300 / 150	315	160	88.5	56	28	28	28	7	6	7

Geberit HDPE double branch fitting 45°



click & scan

Application purposes

- For building drainage
- For site drainage
- For vertical installation

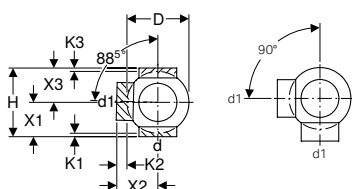
Characteristics

- UV-resistant

Technical data

Product material		PE-HD										
Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	arc [°]	H [cm]	X1 [cm]	X2 [cm]	X3 [cm]	K1 max. [cm]	K2 max. [cm]	K3 max. [cm]
367.235.16.1	1430299	100 / 100	110	110	45	27	9	18	18	5	1.5	1.5

Geberit HDPE double branchball 88.5°, connections 90° offset



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Application purposes

- For building drainage

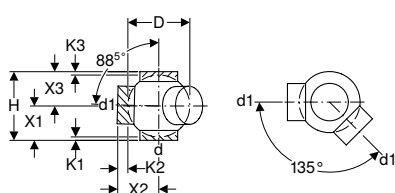
Characteristics

- UV-resistant

Technical data

Product material		PE-HD												
Art. no.	Reece no.	DN	d, Ø [mm]	d1, Ø [mm]	arc [°]	arc2 [°]	D [cm]	H [cm]	X1 [cm]	X2 [cm]	X3 [cm]	K1 max. [cm]	K2 max. [cm]	K3 max. [cm]
367.315.16.1	1433588	100 / 56	110	56	88.5	90	17	20	10	12	10	1.5	1.5	1.5
367.320.16.1	1433589	100 / 60	110	63	88.5	90	17	20	10	12	10	1.5	1.5	1.5
367.325.16.1	1433590	100 / 70	110	75	88.5	90	17	20	10	12	10	1.5	1.5	1.5
367.330.16.1	1433591	100 / 90	110	90	88.5	90	17	20	10	12	10	1.5	1.5	1.5
367.335.16.1	1431105	100 / 100	110	110	88.5	90	17	20	10	12	10	1.5	4	1.5

Geberit HDPE double branchball 88.5°, connections 135° offset



click & scan

Application purposes

- For building drainage

Characteristics

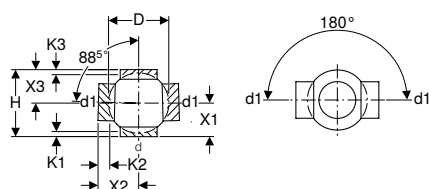
- UV-resistant

Technical data

Product material		PE-HD												
Art. no.	Reece no.	DN	d, Ø [mm]	d1, Ø [mm]	arc [°]	arc2 [°]	D [cm]	H [cm]	X1 [cm]	X2 [cm]	X3 [cm]	K1 max. [cm]	K2 max. [cm]	K3 max. [cm]
367.362.16.1	1433592	100 / 40	110	50	88.5	135	17	20	10	12	10	1.5	1.5	1.5
367.365.16.1	1433593	100 / 56	110	56	88.5	135	17	20	10	12	10	1.5	1.5	1.5
367.370.16.1	1433594	100 / 60	110	63	88.5	135	17	20	10	12	10	1.5	1.5	1.5
367.375.16.1	1433595	100 / 70	110	75	88.5	135	17	20	10	12	10	1.5	1.5	1.5
367.380.16.1	1433596	100 / 90	110	90	88.5	135	17	20	10	12	10	1.5	1.5	1.5
367.385.16.1	1433597	100 / 100	110	110	88.5	135	17	20	10	12	10	1.5	4	1.5



Geberit HDPE double branchball 88.5°, connections 180° offset



click & scan

Application purposes

- For building drainage

Characteristics

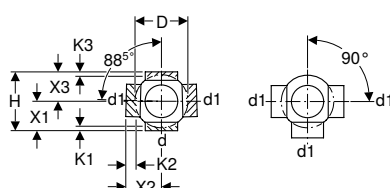
- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	arc [°]	arc2 [°]	D [cm]	H [cm]	X1 [cm]	X2 [cm]	X3 [cm]	K1 max. [cm]	K2 max. [cm]	K3 max. [cm]
367.285.16.1	1431100	100 / 100	110	110	88.5	180	17	20	10	12	10	1.5	4	1.5

Geberit HDPE triple branchball 88.5°, connections 90° offset



click & scan

Application purposes

- For building drainage

Characteristics

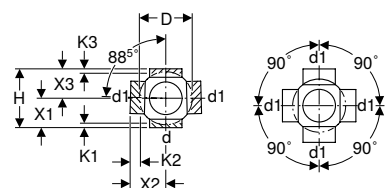
- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	arc [°]	arc2 [°]	D [cm]	H [cm]	X1 [cm]	X2 [cm]	X3 [cm]	K1 max. [cm]	K2 max. [cm]	K3 max. [cm]
367.605.16.1	1430395	100 / 100	110	110	88.5	90	17	20	10	12	10	1.5	4	1.5

Geberit HDPE quadruple branchball 88.5°, connections 90° offset



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Application purposes

- For building drainage

Characteristics

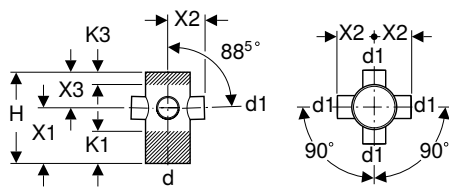
- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	arc [°]	arc2 [°]	D [cm]	H [cm]	X1 [cm]	X2 [cm]	X3 [cm]	K1 max. [cm]	K2 max. [cm]	K3 max. [cm]
367.610.16.1	1430396	100 / 100	110	110	88.5	90	17	20	10	12	10	1.5	4	1.5

Geberit HDPE quadruple branch fitting 88.5°



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Application purposes

- For building drainage
- For site drainage

Characteristics

- UV-resistant

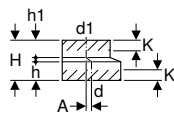
Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	arc [°]	H [cm]	X1 [cm]	X2 [cm]	X3 [cm]	K1 max. [cm]	K3 max. [cm]
367.445.16.1	1430845	100 / 56	110	56	88.5	22.5	13.5	9	9	7.5	3

Reducers

Geberit HDPE reducer, eccentric, short



click & scan

Application purposes

- For building drainage
- For site drainage

Characteristics

- Eccentric
- UV-resistant

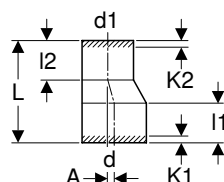
Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	A [cm]	H [cm]	h [cm]	h1 [cm]	K [cm]
361.558.16.1	1430193	50 / 40	50	40	0.5	8	3.5	3.7	2
363.558.16.1	1430196	56 / 40	56	40	0.8	8	3.5	3.7	2
363.561.16.1	1430197	56 / 50	56	50	0.3	8	3.5	3.7	2
364.558.16.1	1433189	60 / 40	63	40	1.2	8	3.5	3.7	2
364.561.16.1	1430199	60 / 50	63	50	0.7	8	3.5	3.7	2
364.566.16.1	1430200	60 / 56	63	56	0.4	8	3.5	3.7	2
365.558.16.1	1433562	70 / 40	75	40	1.8	8	3.5	3.7	2
365.561.16.1	1430202	70 / 50	75	50	1.3	8	3.5	3.7	2
365.566.16.1	1430203	70 / 56	75	56	1	8	3.5	3.7	2
365.571.16.1	1430204	70 / 60	75	63	0.6	8	3.5	3.7	2
366.561.16.1	1430205	90 / 50	90	50	2	8	3.5	3.7	2
366.566.16.1	1430206	90 / 56	90	56	1.7	8	3.5	3.7	2
366.571.16.1	1430207	90 / 60	90	63	1.3	8	3.5	3.7	2
366.576.16.1	1430208	90 / 70	90	75	0.8	8	3.5	3.7	2
367.558.16.1	1433599	100 / 40	110	40	3.4	8	3.5	3.7	2
367.561.16.1	1430209	100 / 50	110	50	2.9	8	3.5	3.7	2
367.566.16.1	1430210	100 / 56	110	56	2.6	8	3.5	3.7	2
367.571.16.1	1430211	100 / 60	110	63	2.2	8	3.5	3.7	2
367.576.16.1	1430212	100 / 70	110	75	1.6	8	3.5	3.7	2
367.581.16.1	1430213	100 / 90	110	90	0.9	8	3.5	3.7	2
368.561.16.1	1430217	125 / 50	125	50	3.6	8	3.5	3.7	2
368.566.16.1	1430218	125 / 56	125	56	3.3	8	3.5	3.7	2
368.571.16.1	1430219	125 / 60	125	63	2.9	8	3.5	3.7	2
368.576.16.1	1430220	125 / 70	125	75	2.3	8	3.5	3.7	2
368.581.16.1	1430221	125 / 90	125	90	1.6	8	3.5	3.7	2
368.586.16.1	1430222	125 / 100	125	110	0.7	8	3.5	3.7	2
369.586.16.1	1430214	150 / 100	160	110	2.3	8	3.5	3.7	2
369.588.16.1	1430215	150 / 125	160	125	1.6	8	3.5	3.7	2



Geberit PE reducer, eccentric, long



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Application purposes

- For building drainage
- For site drainage

Characteristics

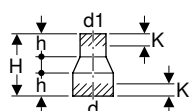
- Eccentric
- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	A [cm]	L [cm]	I1 [cm]	I2 [cm]	K1 max. [cm]	K2 max. [cm]
368.584.16.1	1430223	125 / 100	125	110	0.7	16	7	6.4	4	3
369.584.16.1	1430225	150 / 100	160	110	2.5	28	9.4	6.4	6	3
369.587.16.1	1430228	150 / 125	160	125	1.7	24	9.4	8	6	5
370.584.16.5	1430229	200 / 100	200	110	4.3	28	11.5	3.7	4	0
370.587.16.5	1430230	200 / 125	200	125	3.6	28	11.5	3.7	4	0
370.594.16.5	1430226	200 / 150	200	160	2	28	11.9	9.1	4	6
371.596.16.1	1430227	250 / 200	250	200	2.5	40.5	15.8	15.7	8	8
372.596.16.1	1430259	300 / 200	315	200	5.7	58	16.1	15.7	8	8
372.598.16.1	1430232	300 / 250	315	250	3.2	43.5	16.1	15.7	8	8

Geberit HDPE reducer, concentric, short



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Application purposes

- For building drainage
- For site drainage

Characteristics

- Concentric
- UV-resistant

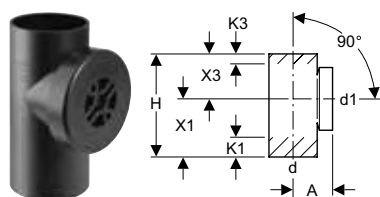
Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	H [cm]	h [cm]	K [cm]
363.560.16.1	1433181	56 / 50	56	50	8	3	1.5
366.575.16.1	1430188	90 / 70	90	75	8	3	1.5
367.560.16.1	1430178	100 / 50	110	50	8	3	1.5
367.565.16.1	1430189	100 / 56	110	56	8	3	1.5
367.570.16.1	1430179	100 / 60	110	63	8	3	1.5
367.575.16.1	1430180	100 / 70	110	75	8	3	1.5
367.580.16.1	1430190	100 / 90	110	90	8	3	1.5
368.580.16.1	1433615	125 / 90	125	90	8	3	1.5
368.585.16.1	1430183	125 / 100	125	110	8	3	1.5
369.535.16.1	1430184	150 / 100	160	110	4	0.6	0

Access pipes

Geberit HDPE access pipe 90° with round service opening


[click & scan](#)

Application purposes

- For building drainage

Technical data

Product material	PE-HD
------------------	-------

Characteristics

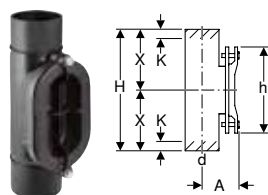
- UV-resistant

Scope of delivery

- Seal made of EPDM
- Screw cap made of PP

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	arc [°]	A [cm]	H [cm]	X1 [cm]	X3 [cm]	K1 max. [cm]	K3 max. [cm]
364.451.16.1	1430400	60 / 60	63	63	90	9	17.5	10.5	7	4.5	0
365.451.16.1	1430401	70 / 70	75	75	90	9.5	17.5	10.5	7	3.5	0
366.451.16.1	1430402	90 / 90	90	90	90	11	20	12	8	3	0
367.451.16.1	1430403	100 / 100	110	110	90	9	24	13.5	10.5	4.5	0
368.451.16.1	1433610	125 / 100	125	110	90	13	25	15	10	6	1
369.451.16.1	1430405	150 / 100	160	110	90	15	35	21	14	12	4

Geberit HDPE access pipe 90° with oval service opening


[click & scan](#)

Application purposes

- For building drainage
- For site drainage

Technical data

Product material	PE-HD
------------------	-------

Characteristics

- UV-resistant

Scope of delivery

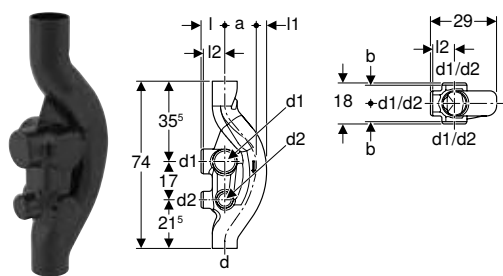
- Seal made of EPDM
- Cover, grey cast iron, dip-coated black

Art. no.	Reece no.	DN	d, ø [mm]	arc [°]	A [cm]	H [cm]	h [cm]	X [cm]	K [cm]
370.454.16.1	1433629	200	200	90	17.5	65	38	32.5	5.5
371.454.16.1	1433631	250	250	90	20	58	38	29	3
372.454.16.1	1433633	300	315	90	23	62	38	31	8



Special fittings

Geberit HDPE Sovent fitting



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Application purposes

- For building drainage
- For buildings with more than five floors (high-rise buildings)

Technical data

Discharge rate	≤ 12 l/s
Product material	PE-HD

Characteristics

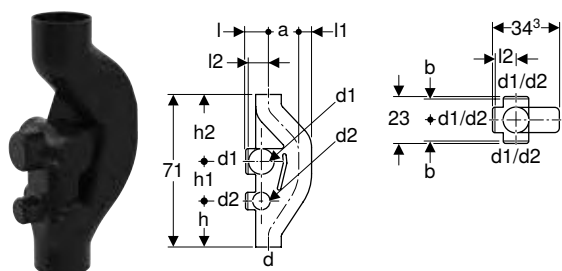
- Six connection options, closed
- UV-resistant
- With SuperTube technology

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	d2, ø [mm]	a [cm]	l [cm]	l1 [cm]	l2 [cm]	b [cm]
367.614.16.2	1430112	100 / 100 / 70	110	110	75	13	10.5	5.5	9.5	8



- Sovent fittings are installed as a system. Refer Sovent Installation Guide.

Geberit HDPE Sovent fitting



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Application purposes

- For building drainage
- For buildings with more than five floors (high-rise buildings)

Technical data

Discharge rate	≤ 17 l/s
Product material	PE-HD

Characteristics

- Six connection options, closed
- UV-resistant

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	d2, ø [mm]	a [cm]	l [cm]	l1 [cm]	l2 [cm]	b [cm]	h [cm]	h2 [cm]	h1 [cm]
369.001.16.1	1433739	150 / 100 / 70	160	110	75	13.3	13	8	11	9.5	19	35	17



- Sovent fittings are installed as a system. Refer Sovent Installation Guide.

Connections

Welding joints

Geberit electrofusion coupling



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Application purposes

- For site drainage
- For building drainage
- For high-tensile, permanent connection of pipes and fittings

Characteristics

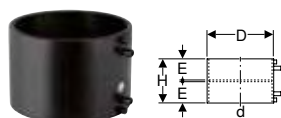
- Can be welded with Geberit electrofusion tools
- UV-resistant

Technical data

Installation temperature	-10 – +40 °C
Product material	PE-HD

Art. no.	Reece no.	DN	d, ø [mm]	D [cm]	E [cm]	H [cm]	X [cm]
360.771.16.1	1430420	40	40	5.2	2.8	6	0.3
361.771.16.1	1430421	50	50	6.2	2.8	6	0.3
363.771.16.1	1430422	56	56	6.8	2.8	6	0.3
364.771.16.1	1430423	60	63	7.6	2.8	6	0.3
365.771.16.1	1430424	70	75	8.9	2.8	6	0.3
366.771.16.1	1430425	90	90	10.4	2.8	6	0.3
367.771.16.2	1430426	100	110	12.5	2.8	6	0.3
368.771.16.1	1430429	125	125	14.2	2.8	6	0.3
369.771.16.1	1430427	150	160	17.8	2.8	6	0.3

Geberit HDPE electrofusion coupling with integrated thermal fuse



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Application purposes

- For building drainage
- For site drainage
- For high-tensile, permanent connection of pipes and fittings

Characteristics

- With integrated thermal fuse
- Can be welded with ESG-T2 starter switch
- Can be welded with ESG 3 electrofusion tool
- Heat-insulated
- UV-resistant

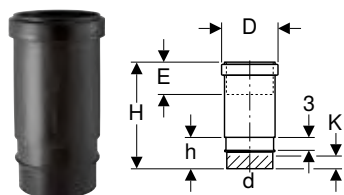
Technical data

Installation temperature	-10 – +40 °C
Product material	PE-HD

Art. no.	Reece no.	DN	d, ø [mm]	D [cm]	E [cm]	H [cm]
370.775.16.1	1430430	200	200	22.4	7.5	15
371.775.16.1	1430428	250	250	27.5	7.5	15
372.775.16.1	1430431	300	315	34.3	7.5	15

Push-in connections

Geberit HDPE expansion socket with double flange



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Application purposes

- For building drainage
- For site drainage
- For horizontal and vertical installation

Characteristics

- Double flange for supporting the pipe bracket
- With seal made of EPDM
- UV-resistant



Technical data

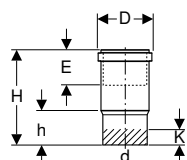
Product material	PE-HD
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Scope of delivery

- Protective cap

Art. no.	Reece no.	DN	d, ø [mm]	D [cm]	E [cm]	I [cm]	H [cm]	h [cm]	K [cm]
363.700.16.1	1430462	56	56	7.4	6.5-13	3	24	6.8	3
364.700.16.1	1430463	60	63	8.3	7-13.5	3	24.3	6.8	3
365.700.16.1	1430464	70	75	9.7	7-13.5	3	24.6	6.8	3
366.700.16.1	1430465	90	90	11.3	7-13.5	3	24.9	6.9	3
367.700.16.1	1430466	100	110	13.6	7.5-14	3	25.6	7.3	3.5
368.700.16.1	1430471	125	125	15.7	8-14.5	3	26.1	7.4	3.5
369.700.16.1	1430467	150	160	19.5	8-14.5	3	26.8	7.4	3.5

Geberit HDPE expansion socket



click & scan

Application purposes

- For building drainage
- For site drainage
- For horizontal and vertical installation

Characteristics

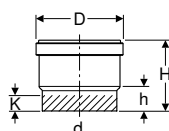
- With seal made of EPDM
- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	D [cm]	E [cm]	H [cm]	h [cm]	K [cm]
370.700.16.1	1430472	200	200	24.3	17-23.5	43	15.6	13
371.700.16.1	1430468	250	250	29.1	17-23.5	42.5	17	14
372.700.16.1	1430469	300	315	36.1	17-23.5	45.8	17.5	14

Geberit PE ring seal socket with lip seal



click & scan

Application purposes

- For building drainage
- For site drainage

Characteristics

- With lip seal made of EPDM
- Welding end for connection to electrofusion sleeve coupling
- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

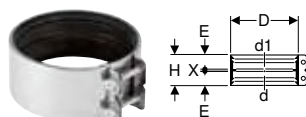
Scope of delivery

- Protective cap

Art. no.	Reece no.	DN	d, ø [mm]	D [cm]	H [cm]	h [cm]	K [cm]
360.779.16.3	1433755	40	40	5.5	8	3.5	2.5
361.779.16.3	1433756	50	50	6.5	8	3.5	2.5
363.779.16.3	1433757	56	56	7	8.3	3.5	2.5
364.779.16.3	1433758	60	63	7.8	8.8	3.5	2.5
365.779.16.3	1433759	70	75	9	9.7	3.5	2.5
366.779.16.3	1433760	90	90	10.6	10.3	3.6	2
367.779.16.3	1433761	100	110	12.9	10.5	3.7	2
368.779.16.3		125	125	14.7	11	3.8	2
369.779.16.3	1433762	150	160	18.5	13.6	4	2

Adapters to other product materials

Geberit adapter clamping connector



click & scan

Application purposes

- For building drainage
- For site drainage
- For connecting pipes and fittings made of the same or different product materials

Characteristics

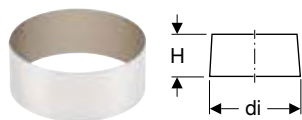
- With seal made of EPDM

Technical data

Product material	Stainless steel
------------------	-----------------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	D [cm]	E [cm]	H [cm]	X [cm]
359.424.00.2	1436295	50	48–50	48–50	6.3	2.7	5.7	0.3
359.465.00.2	1436296	50	50	58	7.5	2.7	5.7	0.3
359.425.00.2	1436297	50	54–56	54–56	7.5	2.7	5.7	0.3
359.426.00.2	1436298	56	56	58	7.5	2.7	5.7	0.3
359.427.00.2	1436299	56	56	68	8.3	2.7	5.7	0.3
359.428.00.2	1436300	60	63	60	7.8	2.7	5.7	0.3
359.429.00.2	1436301	60	63–64	63–64	7.8	2.7	5.7	0.3
359.430.00.2	1436302	60	63–64	68	8.3	2.7	5.7	0.3
359.431.00.2	1436303	70	68	68	8.3	2.6	5.6	0.4
359.432.00.2	1436304	70	75	68	9	2.7	5.7	0.3
359.433.00.2	1436305	70	75–76	75–76	8.8	2.7	5.7	0.3
359.434.00.2	1436306	70	75–76	78	9.3	2.7	5.7	0.3
359.435.00.2	1436307	70	75–76	83–84	9.8	2.7	5.7	0.3
359.436.00.2	1436308	70	75–76	89–90	10.3	2.7	5.7	0.3
359.437.00.2	1436309	90	89–90	83–84	11.1	2.7	5.7	0.3
359.438.00.2	1436310	90	89–90	89–90	10.3	2.7	5.7	0.3
359.439.00.2	1436311	90	89–90	96	11.1	3.3	6.9	0.3
359.440.00.2	1436312	100	108–110	106	12.5	2.7	5.7	0.3
359.441.00.2	1436167	100	108–110	108–110	12.5	2.7	5.7	0.3
359.442.00.2	1436313	100	108–110	114–116	13.1	3.3	6.9	0.3
359.443.00.2	1436314	125	125	125	14	2.7	5.7	0.3
359.444.00.2	1436315	125	125	131–135	15	3.3	6.9	0.3
359.445.00.2	1436316	125	125	140–141	15.6	3.3	6.9	0.3
359.447.00.2	1436318	125	140–141	140–141	15.5	3.3	6.9	0.3
359.448.00.2	1436319	150	159–160	152	17.5	3.3	6.9	0.3
359.449.00.2	1436168	150	159–160	159–160	17.5	3.3	6.9	0.3
359.450.00.2	1436320	150	159–160	168	18.3	3.3	6.9	0.3
359.451.00.2	1436321	200	210	210	22.5	3.3	6.9	0.3

Geberit HDPE support ring


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Application purposes

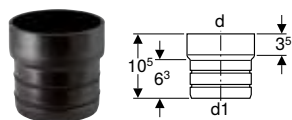
- For building drainage
- For site drainage
- For supporting Geberit HDPE pipes and fittings when using a clamping connector or adapter clamping connector
- For transitions from Geberit HDPE to cast iron

Technical data

Product material	304 stainless steel (DIN 1.4301)
------------------	----------------------------------

Art. no.	Reece no.	DN	d, ø [mm]	di, ø [mm]	H [cm]
359.454.00.1	1430761	50	50	44	4
359.455.00.1	1430762	56	56	50	4
359.456.00.1	1430763	60	63	57	4
359.457.00.1	1430764	70	75	69	4
359.458.00.1	1430765	90	90	83	4
359.459.00.1	1430766	100	110	101.4	4
359.462.00.1	1430767	125	125	115.2	4
359.463.00.1	1430768	125	140	129.2	4
359.464.00.1	1430769	150	160	147.6	4

Geberit HDPE straight adapter to PVC


[click & scan](#)

Application purposes

- For building drainage
- For site drainage
- For transitions from Geberit HDPE to PVC with with an inner diameter of 100–101 mm

Characteristics

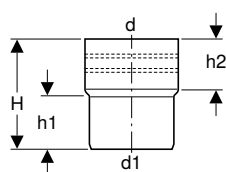
- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]
359.461.16.1	1431009	100	110	90

Geberit HDPE straight adaptor (female) to Copper



Application purpose

- For building drainage
- For site drainage
- For connection of copper pipe with outer diameter of 101.6 mm to d110 PE pipe

Characteristics

- UV-resistant

Art. no.	Reece no.	d, Ø [mm]	d1, Ø [mm]	H [cm]	h1 [cm]	h2 [cm]
359.467.16.1	1430887	117	110	120	55	55

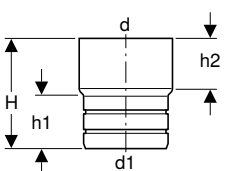
Technical data

Material	PE-HD
----------	-------

Scope of delivery

- 2 seal rings, EPDM

Geberit HDPE straight adaptor (male) to Copper



Application purpose

- For building drainage
- For site drainage
- For connection of Type B copper pipe with inner diameter of 98 mm to d110 PE pipe

Characteristics

- UV-resistant

Art. no.	Reece no.	d, Ø [mm]	d1, Ø [mm]	H [cm]	h1 [cm]	h2 [cm]
359.466.16.1	1430886	110	97	120	55	55

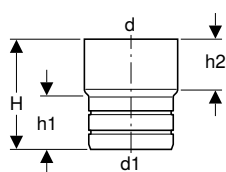
Technical data

Material	PE-HD
----------	-------

Scope of delivery

- 2 seal rings, EPDM

Geberit HDPE straight adaptor (male) to PE



Application purpose

- For building drainage
- For site drainage
- For connection of in-slab PE pipe to above ground PE pipe

Characteristics

- UV-resistant

Art. no.	Reece no.	d, Ø [mm]	d1, Ø [mm]	H [cm]	h1 [cm]	h2 [cm]
359.468.16.1	1430888	56	49	72	33	35
359.469.16.1	1430889	75	67	81	42	35

Technical data

Material	PE-HD
----------	-------

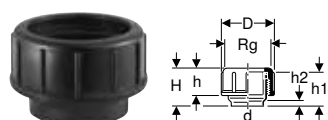
Scope of delivery

- 2 seal rings, EPDM



Screwing joints

Geberit HDPE threaded connector with compression joint



click & scan

Application purposes

- For building drainage
- For site drainage

Technical data

Product material	PE-HD
------------------	-------

Characteristics

- Union nut made of PP
- Compression ring made of PP
- Seal made of EPDM
- UV-resistant

Scope of delivery

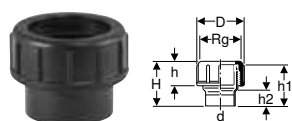
- Protective cap

Art. no.	Reece no.	DN	d, ø [mm]	Rg ["]	Gl ["]	D [cm]	H [cm]	h [cm]	h2 [cm]	h1 [cm]
360.740.16.1	1433158	40	40	1/6"	52	6.4	6.3	3.3	2	5
361.740.16.1	1433168	50	50	1/6"	62	7.4	6.3	3.3	2	5
363.740.16.1	1430518	56	56	1/6"	70	8.5	6.8	3.5	2	5
365.740.16.1	1430520	70	75	1/6"	95	11.2	9.6	4.5	2.5	7.5
366.740.16.1	1433574	90	90	1/4"	110	12.9	9.7	5	2.5	7.5



- Welding end connected by butt welding only

Geberit HDPE threaded connector with compression joint, extended



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Application purposes

- For building drainage

Technical data

Product material	PE-HD
------------------	-------

Characteristics

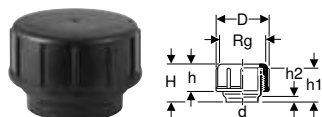
- Union nut made of PP
- Compression ring made of PP
- Seal made of EPDM
- UV-resistant

Scope of delivery

- Protective cap

Art. no.	Reece no.	DN	d, ø [mm]	Rg ["]	Gl ["]	D [cm]	H [cm]	h [cm]	h2 [cm]	h1 [cm]
363.931.16.1	1430524	56	56	1/6"	70	8.5	9.8	3.5	5	8

Geberit HDPE threaded connector with screw cap


[click & scan](#)

Application purposes

- For building drainage
- For site drainage

Technical data

Product material	PE-HD
------------------	-------

Characteristics

- With seal made of EPDM
- Screw cap made of PP
- UV-resistant

Art. no.	Reece no.	DN	d, ø [mm]	Rg ["]	Gl ["]	D [cm]	H [cm]	h [cm]	h2 [cm]	h1 [cm]
360.750.16.1	1433159	40	40	1/6"	52	6.4	6.3	3.3	2	5
361.750.16.1	1433169	50	50	1/6"	62	7.4	6.3	3.3	2	5
363.750.16.1	1430533	56	56	1/6"	70	8.5	6.8	3.5	2	5
365.750.16.1	1430535	70	75	1/6"	95	11.2	9.6	4.5	2.5	7.5
366.750.16.1	1430536	90	90	1/4"	110	12.9	9.7	4.8	2.5	7.5
367.750.16.1	1430537	100	110	1/4"	130	14.9	9.7	6.3	2.5	7.5



- Welding end connected by butt welding only

Geberit HDPE threaded connector with screw cap, extended


[click & scan](#)

Application purposes

- For building drainage

Technical data

Product material	PE-HD
------------------	-------

Characteristics

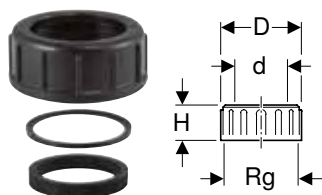
- UV-resistant

Scope of delivery

- Seal made of EPDM
- Screw cap made of PP

Art. no.	Reece no.	DN	d, ø [mm]	Rg ["]	Gl ["]	D [cm]	H [cm]	h [cm]	h1 [cm]
363.932.16.1	1430505	56	56	1/6"	70	8.5	9.5	3.3	9.1
365.932.16.1	1430506	70	75	1/6"	95	11.2	12.2	4.3	11.7

Geberit HDPE compression joint


[click & scan](#)

Application purposes

- For building drainage
- For site drainage

Technical data

Product material	PE
------------------	----

Characteristics

- Compression ring made of PP

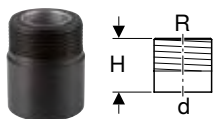
Scope of delivery

- Union nut made of PP
- Seal made of EPDM
- Compression ring

Art. no.	Reece no.	DN	d, ø [mm]	Rg ["]	Gl ["]	D [cm]	H [cm]
364.749.16.1	1433193	60	63	1/6"	75	9	6.8



Geberit HDPE adapter with male thread



click & scan

Application purposes

- For building drainage

Characteristics

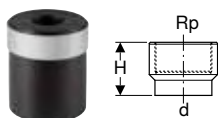
- With support ring made of chrome nickel steel
- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, Ø [mm]	R ["]	H [cm]
361.726.16.1		50	50	1 1/4"	6
361.727.16.1	1430806	50	50	1 1/2"	6
363.728.16.1	1430807	56	56	2"	6.5
364.728.16.1	1430808	60	63	2"	6.5
365.729.16.1	1433563	70	75	2 1/2"	7

Geberit HDPE adapter with female thread



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Application purposes

- For building drainage

Characteristics

- With support ring made of chrome nickel steel
- UV-resistant

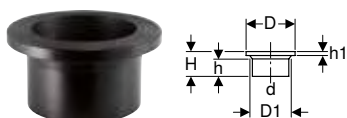
Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, Ø [mm]	Rp ["]	H [cm]
360.721.16.1	1433157	40	40	1"	5.5
361.723.16.1	1430792	50	50	1 1/2"	6
363.724.16.1	1430793	56	56	2"	6.5
364.724.16.1	1430794	60	63	2"	7
365.725.16.1	1430795	70	75	2 1/2"	7

Flange connections

Geberit HDPE flange adapter



click & scan

Application purposes

- For building drainage
- For site drainage
- For combining with Geberit HDPE loose flanges

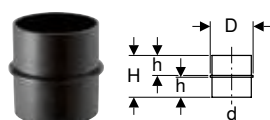
Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, Ø [mm]	D [cm]	D1 [cm]	H [cm]	h [cm]	h1 [cm]
364.744.16.1	1433192	60	63	9	6.8	6	3.7	0.8
366.744.16.1	1433576	90	90	12.8	9.6	7	4.4	1.1
367.744.16.1	1430611	100	110	14.8	11.6	7.5	4.8	1.2
368.744.16.1	1433616	125	125	16	13.1	8	5	1.4
369.744.16.1	1430613	150	160	19.8	16.5	9	5.1	1.7
370.744.16.1	1433630	200	200	26	20.6	7.8	5.4	1.4
371.744.16.1	1433632	250	250	32.5	25.6	7.8	5.2	1.6
372.744.16.1	1433634	300	315	37	31.5	10	7	2

Flange bushings

Geberit HDPE flange bushing



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Application purposes

- For building drainage
- For site drainage

Characteristics

- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	D [cm]	H [cm]	h [cm]
365.772.16.1	1433565	70	75	9	7.2	3.4
366.772.16.1	1433577	90	90	10.3	9.2	4.4
367.772.16.1	1433603	100	110	12	11.7	5.6



- Welding end connected by butt weld

Waste Fittings

Coupling sockets

Geberit HDPE connection ring seal socket with lip seal for wall-hung WC



click & scan

Application purposes

- For building drainage
- For site drainage
- For connecting sanitary appliances with horizontal outlet

Characteristics

- With seal made of EPDM
- UV-resistant

Scope of delivery

- Protective cap

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	d1, ø [mm]	D [cm]	L [cm]
366.941.16.1	1433581	90 / 90	90	90	11.1	4
367.941.16.1	1440068	100 / 90	110	90	11.1	4



Accessories

Caps and seals

Geberit HDPE weld-on cap



click & scan

Application purposes

- For building drainage
- For site drainage
- For butt welding

Characteristics

- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]
360.812.16.1	1430560	40	40
361.812.16.1	1430561	50	50
363.812.16.1	1430563	56	56
364.812.16.1	1433196	60	63
365.812.16.1	1433570	70	75
367.812.16.1	1430567	100	110

Geberit HDPE end cap, extended



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Application purposes

- For building drainage
- For site drainage
- For welding or insertion

Characteristics

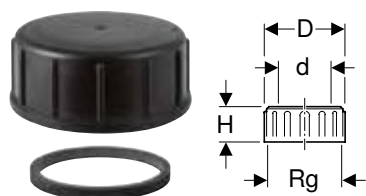
- UV-resistant

Technical data

Product material	PE-HD
------------------	-------

Art. no.	Reece no.	DN	d, ø [mm]	H [cm]
361.929.16.1	1430593	50	50	4
363.929.16.1	1430594	56	56	4
365.929.16.1	1430596	70	75	4.4
366.929.16.1	1430597	90	90	4.5
367.929.16.1	1430598	100	110	4.6
369.929.16.1	1430599	150	160	6.5

Geberit HDPE screw cap



click & scan

Application purposes

- For building drainage
- For site drainage

Characteristics

- With seal made of EPDM

Technical data

Product material	PP
------------------	----

Art. no.	Reece no.	DN	d, ø [mm]	Rg ["]	Gl ["]	D [cm]	H [cm]
366.781.16.1	1433578	90	90	1/4"	110	12.9	5

Seals

Geberit sleeve



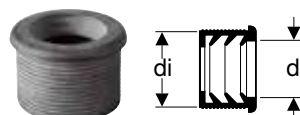
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Application purposes

- For bidets and washbasins

Art. no.	Reece no.	d, ø [mm]	d1, ø [mm]	L [cm]
152.496.00.1	1430720	40	46	2.3

Geberit sleeve



click & scan

Application purposes

- For bidets and washbasins

Art. no.	Reece no.	DN	d, ø [mm]	di, ø [mm]
152.690.00.1	1430676	56	40	50
152.692.00.1	1430883	60	40	57
152.693.00.1	1430678	60	50	57
152.694.00.1		70	50	70



Geberit HDPE flange gasket



[click & scan](#)

Application purposes

- For building drainage
- For creating flange connections

Characteristics

- With seal made of EPDM

Art. no.	Reece no.	DN	d, ø [mm]	di, ø [mm]	D [cm]	H [cm]
366.742.00.1	1433575	90	90	83	14.2	0.3
367.742.00.1	1433602	100	110	102	16.2	0.3

Geberit HDPE compression seal

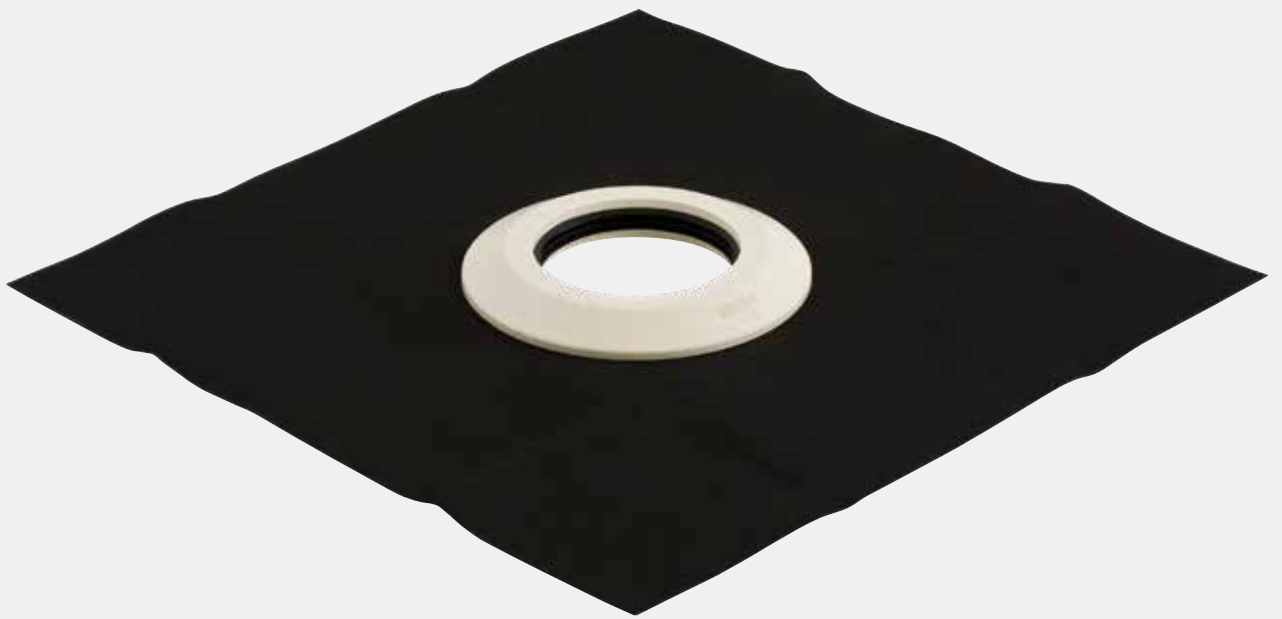


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Application purposes

- For building drainage
- For Geberit HDPE screw connections
- For Geberit HDPE screw caps

Art. no.	Reece no.	DN	d, ø [mm]
360.783.00.1	1433162	40	40
361.783.00.1	1430890	50	50
363.783.00.1	1430891	56	56



Moisture Protection



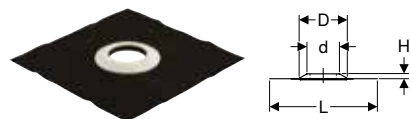
Moisture protection 34

Caulks 34

Moisture protection

Caulks

Geberit moisture sealing with contact foil Resistit®



click & scan

Application purposes

- For sealing pipe feed-throughs in walls, ceilings and floors
- For Geberit HDPE
- For Geberit Silent-db20
- For Geberit Silent-Pro
- For Geberit Silent-PP
- For bonded connections
- For hot bitumen and sealing paint
- For water levels up to 1 m
- For protecting against moisture
- For connecting elastic bituminous seals (e.g. SBS bitumen)
- Not suitable for connection of plastic caulk on bitumen base (e.g. APP sheets)
- Not suitable for processing with an open flame

Characteristics

- With seal made of EPDM
- Can be thermally processed with hot air

Art. no.	Reece no.	DN	Sealing of connection	d, ø [mm]	D [cm]	L [cm]	B [cm]	H [cm]
361.673.00.1	1433735	50	EPDM (Resistit® Perfekt E)	50	13.5	50	50	2.5
363.673.00.1	1433736	56	EPDM (Resistit® Perfekt E)	56	13.5	50	50	2.5
365.673.00.1	1433737	70	EPDM (Resistit® Perfekt E)	75	19.5	50	50	2.5
366.673.00.1	1433738	90	EPDM (Resistit® Perfekt E)	90	19.5	50	50	2.5
367.673.00.1	1433740	100	EPDM (Resistit® Perfekt E)	110	19.5	50	50	2.5





Floor Drainage Systems

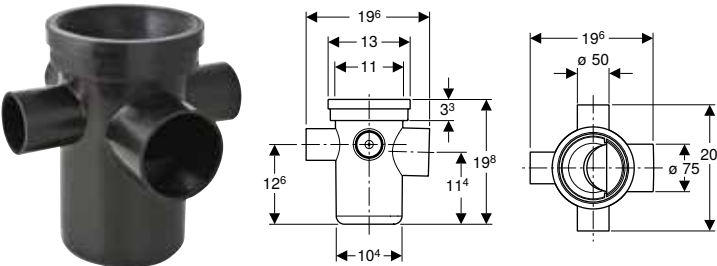
Surface drainage systems for indoor and outdoor	38
Floor drains 12 x 12 cm	38



Surface drainage systems for indoor and outdoor

Floor drains 12 x 12 cm

Geberit collector drain



Application purposes

- For use inside buildings
- For connecting sanitary appliances
- For use as floor drain with horizontal outlet

Technical data

Inlet capacity	0.8 l/s
Depth of water seal	75 mm

Characteristics

- Straight connector permanently mounted, $\varnothing$ 75 mm, made of PE-HD
- Three connection options, made of PE-HD, $\varnothing$ 50 mm
- Trap insert can be removed without tools

Scope of delivery

- Trap

Art. no.	Reece no.	Discharge rate [l/s]
388.001.00.1	1433065	1.15





Waste Fittings and Traps for Washplaces and Kitchen Sinks

Drain assemblies for washbasins	42
Seals.....	42
Drain assemblies for sinks	42
Traps.....	42
Straight connectors.....	43



Drain assemblies for washbasins

Seals

Geberit sleeve


[click & scan](#)

Application purposes

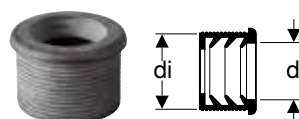
- For bidets and washbasins

Technical data

Product material	EPDM
------------------	------

Art. no.	Reece no.	d, Ø [mm]	d1, Ø [mm]	L [cm]
152.496.00.1	1430720	40	46	2.3

Geberit sleeve


[click & scan](#)

Application purposes

- For bidets and washbasins

Technical data

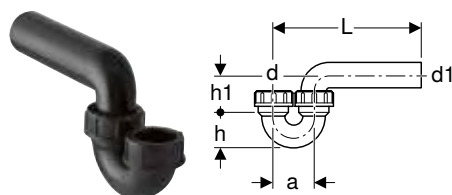
Product material	EPDM
------------------	------

Art. no.	Reece no.	DN	d, Ø [mm]	di, Ø [mm]
152.690.00.1	1430676	56	40	50
152.692.00.1	1430883	60	40	57
152.693.00.1	1430678	60	50	57
152.694.00.1		70	50	70

Drain assemblies for sinks

Traps

Geberit P-trap for sink, with compression joint, vertical inlet and horizontal outlet

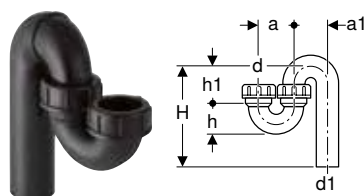

[click & scan](#)

Technical data

Depth of water seal	75 mm
Product material	PE-HD

Art. no.	Reece no.	DN	d, Ø [mm]	Discharge rate [l/s]	d1, Ø [mm]	a [cm]	h [cm]	h1 [cm]
152.039.16.1	1430879	50 / 50	50	0.84	50	8	6.5	8
152.043.16.1	1430880	50 / 56	50	0.84	56	8	6.5	8

Geberit P-trap for sink, with compression joint, vertical inlet and vertical outlet


[click & scan](#)

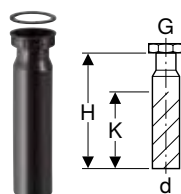
Technical data

Depth of water seal	75 mm
Product material	PE-HD

Art. no.	Reece no.	DN	d, ø [mm]	Discharge rate [l/s]	d1, ø [mm]	a [cm]	a1 [cm]	H [cm]	h [cm]	h1 [cm]
152.038.16.1	1430877	50 / 50	50	0.84	50	8	8	8-18	6.5	8
152.041.16.1	1430878	50 / 56	50	0.84	56	8	7.6	8-21	5.6	8.7

Straight connectors

Geberit straight connector with union nut


[click & scan](#)

Technical data

Product material	PE-HD
------------------	-------

Scope of delivery

- Seal

Art. no.	Reece no.	DN	d, ø [mm]	G ["]	H [cm]	K [cm]
152.113.16.1	1430882	50	50	1 1/2"	20	13
152.114.16.1	1430885	50	50	2"	20	13



- For connection of sinks to P-traps

Geberit straight connector with union nut


[click & scan](#)

Technical data

Product material	PE-HD
------------------	-------

Scope of delivery

- Seal

Art. no.	Reece no.	DN	d, ø [mm]	G ["]	H [cm]
152.180.16.1	1430650	50	50	1 1/2"	3.3
152.181.16.1	1430881	50	50	2"	3



Waste Fittings and Traps for WCs, Urinals and Bidets

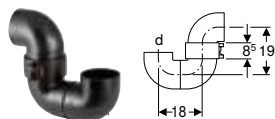
Drain assemblies for WCs and slopoppers.....	36
Traps.....	36
Drain assemblies for bidets.....	36
Seals.....	36



Drain assemblies for WCs and slop hoppers

Traps

Geberit trap for WC, horizontal outlet, can be aligned


[click & scan](#)

Technical data

Product material	PE-HD
------------------	-------

Characteristics

- Horizontal outlet

Art. no.	Reece no.	d, ø [mm]	G ["]	h [cm]
167.736.16.1	1430858	110	4"	19

Drain assemblies for bidets

Seals

Geberit sleeve

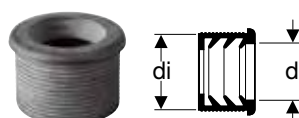

[click & scan](#)

Application purposes

- For bidets and washbasins

Art. no.	Reece no.	d, ø [mm]	d1, ø [mm]	L [cm]
152.496.00.1	1430720	40	46	2.3

Geberit sleeve

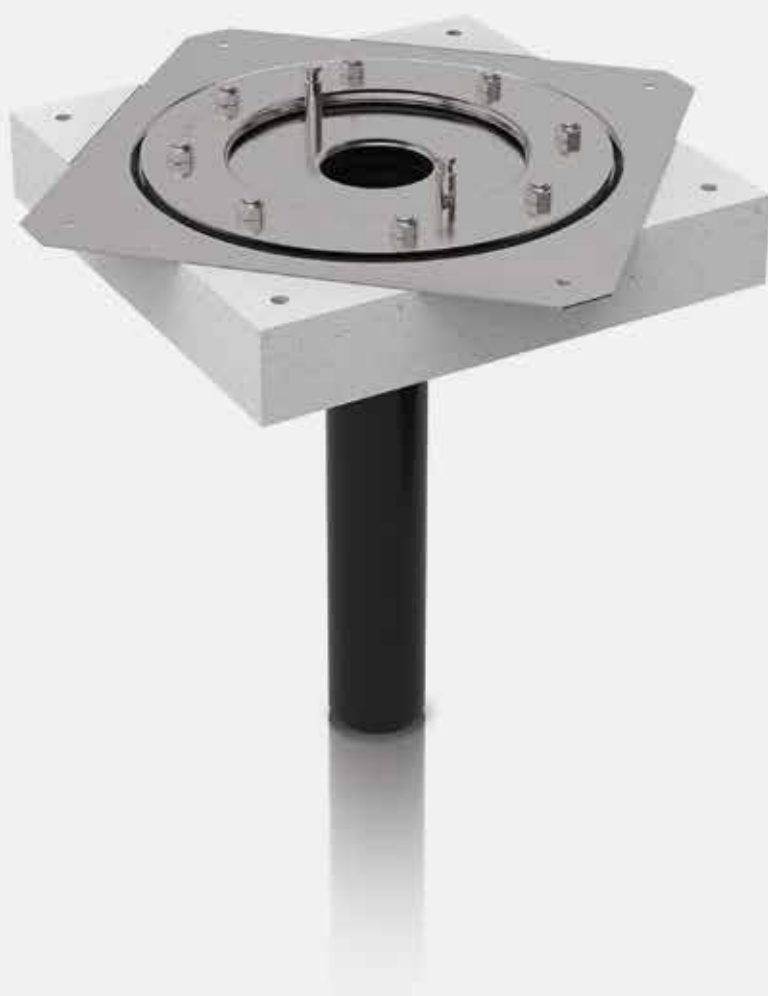
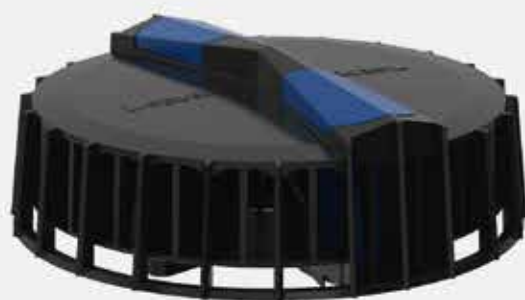

[click & scan](#)

Application purposes

- For bidets and washbasins

Art. no.	Reece no.	DN	d, ø [mm]	di, ø [mm]
152.690.00.1	1430676	56	40	50
152.692.00.1	1430883	60	40	57
152.693.00.1	1430678	60	50	57
152.694.00.1		70	50	70





Geberit Pluvia Roof Drainage Systems

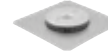
- Pluvia siphonic roof outlet matrix 50**
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 - Roof outlets up to 12 l/s 52
 - Roof outlets up to 25 l/s 53
 - Roof outlets up to 100 l/s 54
- Roof outlets for gutters 56**
 - Roof outlets up to 12 l/s 56
 - Roof outlets up to 25 l/s 56
 - Roof outlets up to 100 l/s 57
- Emergency overflows 59**
 - For roof outlets up to 12 l/s 59
 - For roof outlets up to 25 l/s 59
- Accessories 60**
 - For roof outlets 60



Pluvia siphonic roof outlet matrix

Pluvia Series 7					New Pluvia outlets				
	Picture	Reece Code	Product Description	Geberit Part No.		Picture	Reece Code	Product Description	Geberit Part No.
12 Roof		1433727	Geberit Pluvia roof outlet 14 L with Flange connection	359.003.00.1			1431095	Geberit Pluvia roof outlet with fastening flange, for roof foils	359.105.00.1
		1431073	Geberit Pluvia roof outlet, with contact sheet and insulation against condensation	359.571.00.1					
		1431076	Geberit Pluvia roof outlet, 14 L, d56, with contact sheet for bitumen and clamp flange	358.010.00.1					
12 Gutters		1431075	Geberit Pluvia roof outlet, with insulation against condensation and welding flange	359.636.00.1			1431097	Geberit Pluvia roof outlet with contact sheet for gutters	359.111.00.1
		1433728	Geberit Pluvia roof outlet 14 L with Flange for Gutter	359.032.00.1					
12 Over-flow Insert		1433542	Geberit emergency overflow set for Geberit Pluvia	359.065.00.1			1431079	Geberit Pluvia emergency overflow	359.114.00.1
19 Gutters		1431066	Geberit Pluvia roof outlet for gutters	359.034.00.1	No Change		1431066	Geberit Pluvia roof outlet for gutters	359.034.00.1
25 Roof		1433216	Geberit Pluvia roof outlet with fastening flange, for roof foils	359.012.00.1 / 359.023.00.1			1431091	Geberit Pluvia roof outlet with flange	359.098.00.1
		1431074 / 1433730	Geberit Pluvia roof outlet, 25 L, with contact sheet for bitumen	359.573.00.1 / 359.506.00.1					

Pluvia Series 7

	Picture	Reece Code	Product Description	Geberit Part No.
25 l Gutters		1431072	Geberit Pluvia roof outlet 25 L, with contact seam for gutters, round	359.544.00.1 / 359.519.00.1
25 l Over-flow Insert		1433141	Geberit emergency overflow set for Geberit Pluvia roof outlet 25 L	358.008.00.1
45 l		1433142	Geberit Pluvia roof outlet for gutters	359.528.00.1
		1433732	Geberit Pluvia roof outlet with contact sheet	359.538.00.1
60 l		1433731	Geberit Pluvia roof outlet for gutters	359.536.00.1
		1433733	Geberit Pluvia roof outlet with contact sheet	359.539.00.1
100 l		1433144	Geberit Pluvia roof outlet for gutters	359.537.00.1
		1433734	Geberit Pluvia roof outlet with contact sheet	359.540.00.1

New Pluvia outlets

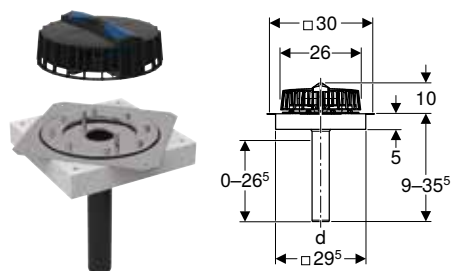
	Picture	Reece Code	Product Description	Geberit Part No.
		1431093	25 litres	359.100.00.1
		1431094	Geberit Pluvia emergency overflow	359.101.00.1
		1433544	Geberit Pluvia roof outlet for gutters	359.342.00.1
		1433199	45 litres	359.345.00.1
		1433143	Geberit Pluvia roof outlets for gutters	359.343.00.1
		1433545	Geberit Pluvia roof outlet with contact sheet	359.346.00.1
		1433144	Geberit Pluvia roof outlet for gutters	359.344.00.1
		1433546	Geberit Pluvia roof outlet with contact sheet	359.347.00.1



Roof outlets

Roof outlets up to 12 l/s

Geberit Pluvia roof outlet with fastening flange, for roof foils


[click & scan](#)

Application purposes

- For collecting and draining off rainwater from roofs
- For roof foils without fleece lamination
- For syphonic roof drainage systems
- For connecting to roof foils with thicknesses ≤ 4 mm

Technical data

Discharge rate	1–12 l/s
Head of water max.	40 mm

Characteristics

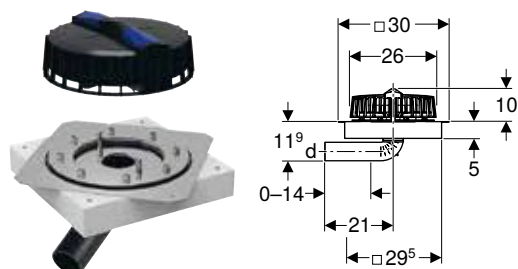
- Vertical outlet
- Straight connector can be reduced directly or extended
- Straight connector made of PE-HD, can be shortened
- Maintenance-free clamping flange joint

Scope of delivery

- Outlet grating with function disc
- Base unit with contact sheet made of 304 stainless steel (DIN 1.4301)
- Flange gasket made of EPDM
- Anticondensation insulation
- Fastening flange with prevailing torque nuts

Art. no.	Reece no.	DN	Sealing of connection	d, $\varnothing$ [mm]
359.105.00.1	1431095	56	304 stainless steel (DIN 1.4301)	56

Geberit Pluvia roof outlet with fastening flange, for roof foils


[click & scan](#)

Application purposes

- For collecting and draining off rainwater from roofs
- For renovated roofs
- For roof foils without fleece lamination
- For syphonic roof drainage systems
- For connecting to roof foils with thicknesses ≤ 4 mm
- For horizontal pipe connections

Technical data

Discharge rate	1–9 l/s
Head of water max.	40 mm

Characteristics

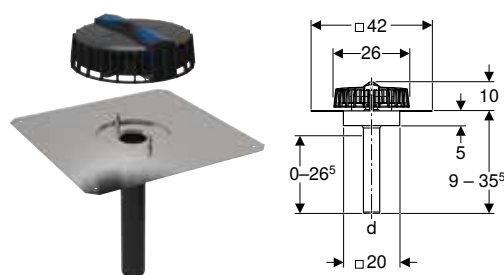
- Horizontal outlet
- Straight connector can be reduced directly or extended
- Straight connector made of PE-HD, can be shortened
- Maintenance-free clamping flange joint
- Low installation height

Scope of delivery

- Outlet grating with function disc
- Base unit with contact sheet made of 304 stainless steel (DIN 1.4301)
- Flange gasket made of EPDM
- Fastening flange with prevailing torque nuts
- Anticondensation insulation

Art. no.	Reece no.	DN	Sealing of connection	d, $\varnothing$ [mm]
359.117.00.1	1468005	56	304 stainless steel (DIN 1.4301)	56

Geberit Pluvia roof outlet with contact sheet


[click & scan](#)

Application purposes

- For collecting and draining off rainwater from roofs
- For syphonic roof drainage systems
- For connecting bituminous roof sealings

Technical data

Discharge rate	1–12 l/s
Head of water max.	40 mm

Characteristics

- Vertical outlet
- Straight connector can be reduced directly or extended
- Straight connector made of PE-HD, can be shortened

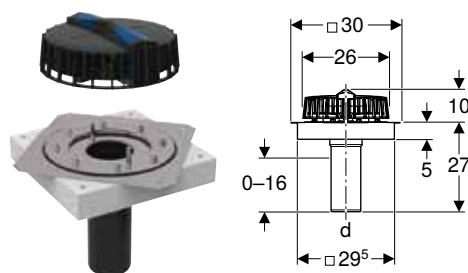
Scope of delivery

- Outlet grating with function disc
- Base unit with contact sheet made of 304 stainless steel (DIN 1.4301)
- Anticondensation insulation
- Protection box cover

Art. no.	Reece no.	DN	Sealing of connection	d, Ø [mm]
359.108.00.1	1431096	56	304 stainless steel (DIN 1.4301)	56

Roof outlets up to 25 l/s

Geberit Pluvia roof outlet with fastening flange, for roof foils


[click & scan](#)

Application purposes

- For collecting and draining off rainwater from roofs
- For roof foils without fleece lamination
- For syphonic roof drainage systems
- For connecting to roof foils with thicknesses ≤ 4 mm

Technical data

Discharge rate	1–25 l/s
Head of water max.	50 mm

Characteristics

- Vertical outlet
- Straight connector can be reduced directly or extended
- Straight connector made of PE-HD, can be shortened
- Maintenance-free clamping flange joint

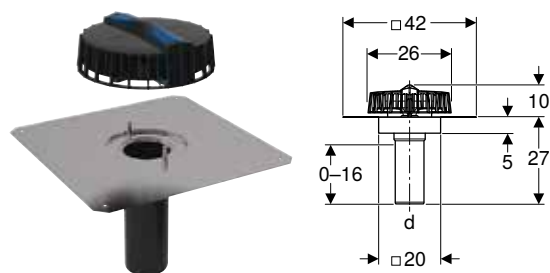
Scope of delivery

- Outlet grating with function disc
- Base unit with contact sheet made of 304 stainless steel (DIN 1.4301)
- Flange gasket made of EPDM
- Fastening flange with prevailing torque nuts
- Anticondensation insulation

Art. no.	Reece no.	DN	Sealing of connection	d, Ø [mm]
359.098.00.1	1431091	90	304 stainless steel (DIN 1.4301)	90



Geberit Pluvia roof outlet with contact sheet



click & scan

Application purposes

- For collecting and draining off rainwater from roofs
- For syphonic roof drainage systems
- For connecting bituminous roof sealings

Technical data

Discharge rate	1–25 l/s
Head of water max.	50 mm

Characteristics

- Vertical outlet
- Straight connector can be reduced directly or extended
- Straight connector made of PE-HD, can be shortened

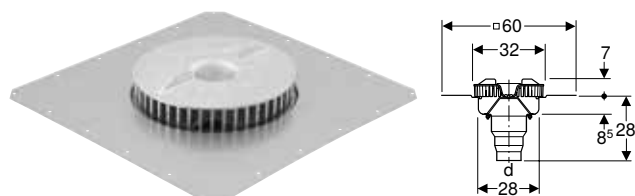
Scope of delivery

- Outlet grating with function disc
- Base unit with contact sheet made of 304 stainless steel (DIN 1.4301)
- Protection box cover
- Anticondensation insulation

Art. no.	Reece no.	DN	Sealing of connection	d, Ø [mm]
359.099.00.1	1431092	90	304 stainless steel (DIN 1.4301)	90

Roof outlets up to 100 l/s

Geberit Pluvia roof outlet with contact sheet



click & scan

Application purposes

- For collecting and draining off rainwater from roofs
- For syphonic roof drainage systems
- For connecting bituminous roof sealings

Technical data

Discharge rate	7–45 l/s
Head of water max.	80 mm

Characteristics

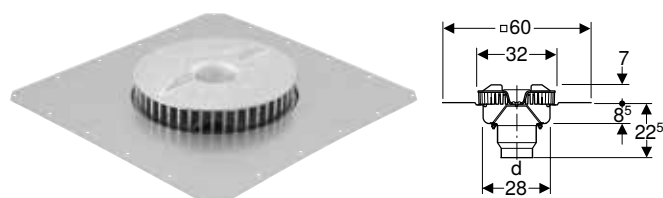
- Vertical outlet
- Straight connector can be reduced directly or extended
- Straight connector permanently mounted, Ø 110 mm, made of PE-HD
- Outlet grating with integrated function disc
- Base unit with built-in outlet disc

Scope of delivery

- Outlet grating with function disc
- Base unit with contact sheet made of 304 stainless steel (DIN 1.4301)
- Wing nut and prevailing torque nuts, made of 304 stainless steel (DIN 1.4301)
- Protection box cover

Art. no.	Reece no.	DN	Sealing of connection	d, Ø [mm]	Discharge rate [l/s]
359.345.00.1	1433545	100	304 stainless steel (DIN 1.4301)	110	45

Geberit Pluvia roof outlet with contact sheet


[click & scan](#)

Application purposes

- For collecting and draining off rainwater from roofs
- For syphonic roof drainage systems
- For connecting bituminous roof sealings

Technical data

Discharge rate	8–60 l/s
Head of water max.	85 mm

Characteristics

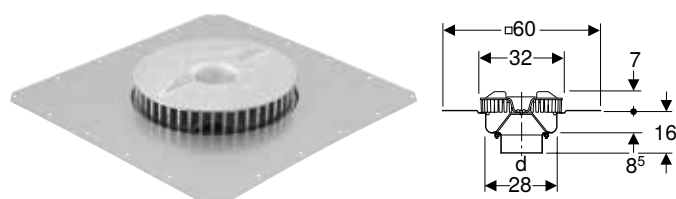
- Vertical outlet
- Straight connector can be reduced directly or extended
- Straight connector permanently mounted, $\varnothing$ 125 mm, made of PE-HD
- Outlet grating with integrated function disc
- Base unit with built-in outlet disc

Scope of delivery

- Outlet grating with function disc
- Base unit with contact sheet made of 304 stainless steel (DIN 1.4301)
- Wing nut and prevailing torque nuts, made of 304 stainless steel (DIN 1.4301)

Art. no.	Reece no.	DN	Sealing of connection	d, $\varnothing$ [mm]	Discharge rate [l/s]
359.346.00.1	1433545	125	304 stainless steel (DIN 1.4301)	125	60

Geberit Pluvia roof outlet with contact sheet


[click & scan](#)

Application purposes

- For collecting and draining off rainwater from roofs
- For syphonic roof drainage systems
- For connecting bituminous roof sealings

Technical data

Discharge rate	14–100 l/s
Head of water max.	105 mm

Characteristics

- Vertical outlet
- Straight connector can be reduced directly or extended
- Straight connector permanently mounted, $\varnothing$ 160 mm, made of PE-HD
- Outlet grating with integrated function disc
- Base unit with built-in outlet disc

Scope of delivery

- Outlet grating with function disc
- Base unit with contact sheet made of 304 stainless steel (DIN 1.4301)
- Wing nut and prevailing torque nuts, made of 304 stainless steel (DIN 1.4301)
- Protection box cover

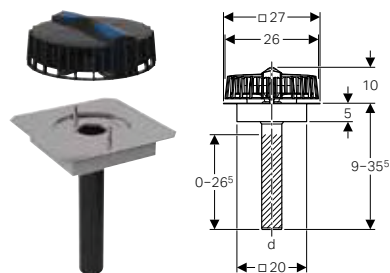
Art. no.	Reece no.	DN	Sealing of connection	d, $\varnothing$ [mm]	Discharge rate [l/s]
359.347.00.1	1433546	150	304 stainless steel (DIN 1.4301)	160	100



Roof outlets for gutters

Roof outlets up to 12 l/s

Geberit Pluvia roof outlet with contact sheet for gutters



click & scan

Application purposes

- For collecting and draining off rainwater from roofs
- For gutters with a minimum width of 30 cm
- For connecting metallic product materials
- For syphonic roof drainage systems

Technical data

Discharge rate	1–12 l/s
Head of water max.	40 mm

Characteristics

- Vertical outlet
- Straight connector can be reduced directly or extended
- Straight connector made of PE-HD, can be shortened

Scope of delivery

- Outlet grating with function disc
- Base unit with contact sheet made of 304 stainless steel (DIN 1.4301)
- Anticondensation insulation

Art. no.	Reece no.	DN	Sealing of connection	d, Ø [mm]
359.111.00.1	1431097	56	304 stainless steel (DIN 1.4301)	56

Roof outlets up to 25 l/s

Geberit Pluvia roof outlet for gutters



click & scan

Application purposes

- For connecting metallic product materials
- For connecting to concrete gutter
- For installation in gutters with a minimum width of 21 cm
- For collecting and draining off rainwater from roofs
- For syphonic roof drainage systems

Technical data

Discharge rate	1–19 l/s
Head of water max.	55 mm

Characteristics

- Straight connector made of PE-HD, can be shortened
- Straight connector can be reduced directly or extended

Scope of delivery

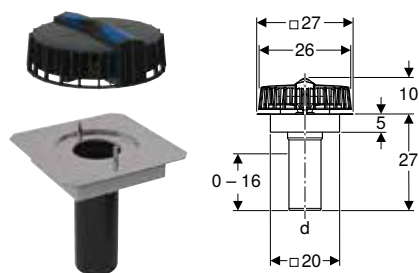
- Base unit made of 304 stainless steel (DIN 1.4301)
- Outlet grating with function disc and blue rotary latching slider
- 6 hammer fixings made of chrome nickel steel

Art. no.	Reece no.	DN	d, Ø [mm]
359.034.00.1	1431066	70	75



- Piccolo

Geberit Pluvia roof outlet with contact sheet for gutters


[click & scan](#)

Application purposes

- For collecting and draining off rainwater from roofs
- For gutters with a minimum width of 30 cm
- For connecting metallic product materials
- For syphonic roof drainage systems

Technical data

Discharge rate	1–25 l/s
Head of water max.	50 mm

Art. no.	Reece no.	DN	Sealing of connection	d, ø [mm]
359.100.00.1	1431093	90	304 stainless steel (DIN 1.4301)	90

Characteristics

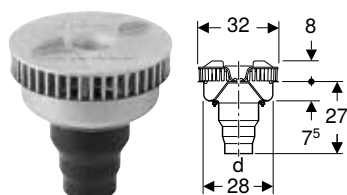
- Vertical outlet
- Straight connector can be reduced directly or extended
- Straight connector made of PE-HD, can be shortened

Scope of delivery

- Outlet grating with function disc
- Base unit with contact sheet made of 304 stainless steel (DIN 1.4301)
- Anticondensation insulation

Roof outlets up to 100 l/s

Geberit Pluvia roof outlet for gutters


[click & scan](#)

Application purposes

- For collecting and draining off rainwater from roofs
- For gutters with a minimum width of 35 cm
- For connecting metallic product materials
- For syphonic roof drainage systems

Technical data

Discharge rate	7–45 l/s
Head of water max.	80 mm

Art. no.	Reece no.	DN	Sealing of connection	d, ø [mm]	Discharge rate [l/s]
359.342.00.1	1433544	100	304 stainless steel (DIN 1.4301)	110	45

Characteristics

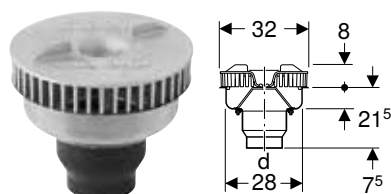
- Vertical outlet
- Straight connector can be reduced directly or extended
- Straight connector permanently mounted, ø 110 mm, made of PE-HD
- Outlet grating with integrated function disc
- Base unit with built-in outlet disc

Scope of delivery

- Outlet grating with function disc
- Base unit with contact rim made of 304 stainless steel (DIN 1.4301)
- Wing nut and prevailing torque nuts, made of 304 stainless steel (DIN 1.4301)



Geberit Pluvia roof outlet for gutters



click & scan

Application purposes

- For collecting and draining off rainwater from roofs
- For gutters with a minimum width of 35 cm
- For connecting metallic product materials
- For syphonic roof drainage systems

Technical data

Discharge rate	8–60 l/s
Head of water max.	85 mm

Characteristics

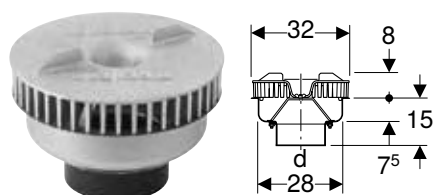
- Vertical outlet
- Straight connector can be reduced directly or extended
- Straight connector permanently mounted, ø 125 mm, made of PE-HD
- Outlet grating with integrated function disc
- Base unit with built-in outlet disc

Scope of delivery

- Outlet grating with function disc
- Base unit with contact rim made of 304 stainless steel (DIN 1.4301)
- Wing nut and prevailing torque nuts, made of 304 stainless steel (DIN 1.4301)

Art. no.	Reece no.	DN	Sealing of connection	d, ø [mm]	Discharge rate [l/s]
359.343.00.1	1433143	125	304 stainless steel (DIN 1.4301)	125	60

Geberit Pluvia roof outlet for gutters



click & scan

Application purposes

- For collecting and draining off rainwater from roofs
- For gutters with a minimum width of 35 cm
- For connecting metallic product materials
- For syphonic roof drainage systems

Technical data

Discharge rate	14–100 l/s
Head of water max.	105 mm

Characteristics

- Vertical outlet
- Straight connector can be reduced directly or extended
- Straight connector permanently mounted, ø 160 mm, made of PE-HD
- Outlet grating with integrated function disc
- Base unit with built-in outlet disc

Scope of delivery

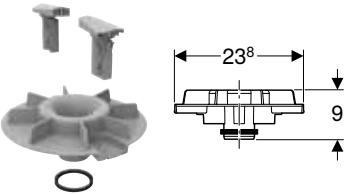
- Outlet grating with function disc
- Base unit with contact rim made of 304 stainless steel (DIN 1.4301)
- Wing nut and prevailing torque nuts, made of 304 stainless steel (DIN 1.4301)
- Protection box cover

Art. no.	Reece no.	DN	Sealing of connection	d, ø [mm]	Discharge rate [l/s]
359.344.00.1	1433144	150	304 stainless steel (DIN 1.4301)	160	100

Emergency overflows

For roof outlets up to 12 l/s

Geberit Pluvia emergency overflow



click & scan

Application purposes

- For Geberit Pluvia roof outlets with discharge rate of 9 l/s and 12 l/s
- Not suitable for Geberit Pluvia roof outlets with outlet grating made of aluminium cast

Scope of delivery

- Overflow section made of PP
- 2 grey rotating lock bars
- Lip seal made of EPDM

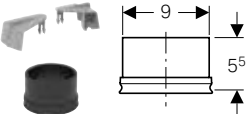
Technical data

Head of water at 12 l/s max.	80 mm
Overflow height	55 mm

Art. no.	Reece no.
359.114.00.1	1431079

For roof outlets up to 25 l/s

Geberit Pluvia emergency overflow



click & scan

Application purposes

- For Geberit Pluvia roof outlets with discharge rate of 19 l/s

Scope of delivery

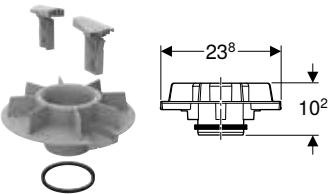
- 2 rotary latching sliders, grey
- Lip seal made of EPDM

Technical data

Head of water at 19 l/s max.	70 mm
Overflow height	55 mm

Art. no.	Reece no.
359.036.00.1	1433729

Geberit Pluvia emergency overflow



click & scan

Application purposes

- For Geberit Pluvia roof outlets with discharge rate of 25 l/s
- Not suitable for Geberit Pluvia roof outlets with outlet grating, grating aperture 8 x 2 cm

Scope of delivery

- Overflow section made of PP
- 2 grey rotating lock bars
- Lip seal made of EPDM

Technical data

Head of water at 25 l/s max.	95 mm
Overflow height	65 mm

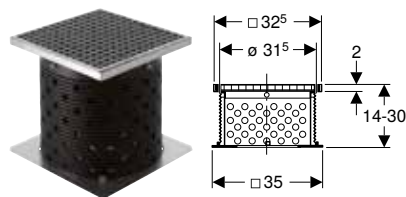
Art. no.	Reece no.
359.101.00.1	1431094



Accessories

For roof outlets

Geberit Pluvia supplementary set, suitable for parking decks


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Application purposes

- For green roofs
- For Geberit Pluvia roof outlets with discharge rate of 12 l/s
- For Geberit Pluvia roof outlets with discharge rate of 25 l/s
- For later construction of roofs in the case of inverted, drivable or green roofs

Scope of delivery

- Grating
- Top piece with grating frame
- Force distribution plate
- Duct pipe can be cut to length
- Fastening material

Characteristics

- Can bear loads of up to 1500 kg

Art. no.	Reece no.	d, ø [mm]
359.635.00.1	1431077	31.5

Geberit Pluvia set of mounting clips for function disc


[click & scan](#)

Application purposes

- For fixing of the Geberit Pluvia function disc without outlet grating
- Exclusively suitable for use with Geberit Pluvia supplementary sets, suitable for parking decks or promenade decks

Scope of delivery

- Set of 2 pieces

Art. no.	Reece no.
358.060.00.1	1430249





Tools

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Electrofusion welding tools..... 64

Butt welding tools 65

Accessories for butt-welding tools 65

Pipe processing tools 68



Tools

Tools for Geberit Silent-db20 / Geberit HDPE
Electrofusion welding tools

Tools for Geberit Silent-db20 / Geberit HDPE

Electrofusion welding tools

Geberit ESG 3 electrofusion tool, 230 V



click & scan

Application purposes

- For electrofusion welding of Geberit HDPE and Geberit Silent-db20 pipes and fittings up to $\varnothing$ 315 mm
- For Geberit electrofusion tapes up to $\varnothing$ 315 mm
- For electrofusion welding of up to three electrofusion couplings $\leq$ $\varnothing$ 110 mm simultaneously

Technical data

Protection degree	IP55
Load resistance	5–68 Ohm
Fuse	12.5 A
Nominal voltage	100–240 V AC
Mains frequency	50–60 Hz
Welding current max.	5 A
Mains cable length	4 m
Coupling connection cable length	4 m
Installation temperature	-10 – +50 °C
Welding cycle for electrofusion couplings	80 s
Welding cycle for electrofusion couplings with thermal fuse	420 s
Welding cycle for electrofusion tapes	80 s

Characteristics

- With remote control
- With integrated fall impact cushioning
- CE-compliant

Scope of delivery

- Connecting cable for electrofusion coupling
- Cable for electrofusion couplings with integrated thermal fuse
- Connecting cable for electrofusion couplings and electrofusion tapes

Art. no.	Reece no.	Protection class	Power consumption (W)	Main element weight kg
359.911.P6.1	1431008	I	$\leq$ 1085	6.561

Geberit ESG Light electrofusion tool, 230 V



click & scan

Application purposes

- For electrofusion welding of Geberit HDPE and Geberit Silent-db20 pipes and fittings up to $\varnothing$ 160 mm
- For Geberit electrofusion tapes

Technical data

Protection degree	IP44
Load resistance	5–37 Ohm
Fuse	10 A
Nominal voltage	220–240 V AC
Mains frequency	50–60 Hz
Welding current max.	5 A
Mains cable length	3 m
Coupling connection cable length	3 m
Ambient temperature	-20 – +50 °C
Installation temperature	-10 – +40 °C
Welding cycle for electrofusion couplings	80 s
Welding cycle for electrofusion tapes	80 s

Characteristics

- With integrated fall impact cushioning
- CE-compliant

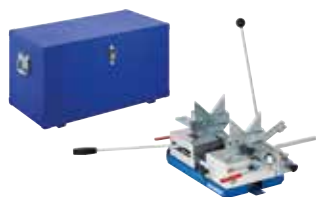
Scope of delivery

- Connecting cable for electrofusion coupling

Art. no.	Reece no.	Protection class	Power consumption (W)	Main element weight kg
359.910.P6.1	1431025	II	1120	2

Butt welding tools

Geberit Media welding machine



click & scan

Application purposes

- For butt welding Geberit HDPE and Geberit Silent-db20 pipes and fittings

Characteristics

- Robust base element for welding accessories up to $\varnothing$ 160 mm
- Retainer for welding plate lever and plane

Scope of delivery

- 2 pipe support prism $\varnothing$ 50–160 mm
- Pipe supports, $\varnothing$ 75–125 mm
- Welding plate lever
- Transport case made of wood

Art. no.	Reece no.	d, $\varnothing$ [mm]	L [cm]	B [cm]	H [cm]	Main element weight kg
359.662.00.1	1431571	40–160	84	41	43	25.2

Geberit Universal welding machine



click & scan

Application purposes

- For butt welding Geberit HDPE and Geberit Silent-db20 pipes and fittings

Characteristics

- Robust base element for welding accessories up to $\varnothing$ 315 mm
- Retainer for welding plate lever and plane

Scope of delivery

- 2 pipe support prism $\varnothing$ 50–160 mm
- Pipe support $\varnothing$ 75–125 mm, with base
- 2 underlays $\varnothing$ 200 mm
- Welding plate lever
- Accessories case made of wood

Art. no.	Reece no.	d, $\varnothing$ [mm]	L [cm]	B [cm]	H [cm]	Main element weight kg
356.201.00.1	1431600	40–315	77	43	43.5	74

Accessories for butt-welding tools

Geberit KSS-160 welding plate, 230 V



click & scan

Application purposes

- For butt welding Geberit HDPE and Geberit Silent-db20 pipes and fittings up to $\varnothing$ 160 mm
- For Media and Universal welding machines

Characteristics

- With automatic temperature regulation
- With operating display
- PTFE-coated
- CE-compliant

Technical data

Nominal voltage	230 V AC
Mains frequency	50–60 Hz

Scope of delivery

- Welding plate holder

Art. no.	Reece no.	d, $\varnothing$ [mm]	Power consumption (W)	Main element weight kg
359.641.P6.2	1430475	40–160	800	3.01



Tools

Tools for Geberit Silent-db20 / Geberit HDPE
Accessories for butt-welding tools

Geberit KSS-200 welding plate, 230 V



[click & scan](#)

Application purposes

- For butt welding Geberit HDPE and Geberit Silent-db20 pipes and fittings up to $\varnothing$ 200 mm
- For Universal welding machines

Characteristics

- With automatic temperature regulation
- With operating display
- PTFE-coated
- CE-compliant

Technical data

Nominal voltage	230 V AC
Mains frequency	50–60 Hz

Art. no.	Reece no.	d, $\varnothing$ [mm]	Power consumption (W)	Main element weight kg
359.665.P6.2	1430476	40–200	1300	3.18

Geberit electric plane d40–160, 230 V



[click & scan](#)

Application purposes

- For processing Geberit HDPE
- For Media and Universal welding machines
- For pipes and fittings $\varnothing$ 40–160 mm

Characteristics

- With high-speed steel blade
- CE-compliant

Technical data

Nominal voltage	230 V AC
Mains frequency	50–60 Hz

Art. no.	Reece no.	d, $\varnothing$ [mm]	Power consumption (W)	Main element weight kg
359.046.P6.1	1431602	40–160	750	6.5

Geberit electric plane d40–200, 230 V



[click & scan](#)

Application purposes

- For processing Geberit HDPE
- For Universal welding machines
- For pipes and fittings $\varnothing$ 40–200 mm

Characteristics

- With high-speed steel blade
- CE-compliant

Technical data

Nominal voltage	230 V AC
Mains frequency	50–60 Hz

Art. no.	Reece no.	d, $\varnothing$ [mm]	Power consumption (W)	Main element weight kg
359.082.P6.1	1431622	40–200	750	6.02

Geberit set of tension devices



click & scan

Application purposes

- For Media and Universal welding machines
- For tensioning pipes and fittings

Scope of delivery

- Tension device, left
- Tension device, right

Characteristics

- Chrome-plated

Art. no.	Reece no.	DN	d, ø [mm]
359.813.00.1	1431524	90	90
359.814.00.1	1431525	100	110
359.819.00.1	1431526	125	125
359.816.00.1	1431527	150	160

Geberit set of tension devices d200



click & scan

Application purposes

- For Universal welding machines
- For tensioning pipes and fittings
- For use with KSS-200 welding plate, electric plane d40–200 and set of pipe supports d200

Scope of delivery

- Tension device, left
- Tension device, right

Characteristics

- Chrome-plated

Art. no.	Reece no.	DN	d, ø [mm]
359.884.00.1	1430473	200	200

Geberit set of pipe supports d200, for welding machine Universal



click & scan

Application purposes

- For supporting pipes and fittings with dimensions of ø 200 mm
- For Universal welding machines
- For use with Geberit tension device set d200

Scope of delivery

- Set of 2 pieces

Art. no.	Reece no.
357.449.00.1	1430474



Tools

Tools for Geberit Silent-db20 / Geberit HDPE
Pipe processing tools

Pipe processing tools

Geberit handheld pipe scraper



[click & scan](#)

Application purposes

- For preparing electro welding
- For removing the oxide layer on Geberit HDPE and Geberit Silent-db20 pipes and fittings

Art. no. Reece no.

356.118.00.1 1431632

Geberit handheld pipe scraper, in case



[click & scan](#)

Application purposes

- For preparing electro welding
- For removing the oxide layer on Geberit HDPE and Geberit Silent-db20 pipes and fittings of dimensions $\varnothing$ 63–160 mm

Scope of delivery

- Spare blade
- Case

Art. no. Reece no.

Art. no.	Reece no.	d, $\varnothing$ [mm]
359.912.00.1	1430774	63–160

Accessories

- Geberit scraping knife for pipe scraper → p. 69

Geberit pipe scraper, in case



[click & scan](#)

Application purposes

- For removing the oxide layer on Geberit HDPE and Geberit Silent-db20 pipes and fittings of dimensions $\varnothing$ 110 mm
- For use with cordless screwdrivers

Scope of delivery

- Case
- Case insert
- Pipe scraper $\varnothing$ 110 mm

Art. no. Reece no.

Art. no.	Reece no.	d, $\varnothing$ [mm]
359.915.00.1	1430771	110

Accessories

- Geberit scraping knife for pipe scraper → p. 69

Geberit pipe scraper set, in case



click & scan

Application purposes

- For removing the oxide layer on Geberit PE and Geberit Silent-db20 pipes and fittings of dimensions $\varnothing$ 56–110 mm
- For use with cordless screwdrivers

Scope of delivery

- Pipe scraper $\varnothing$ 56 mm
- Pipe scraper $\varnothing$ 63 mm
- Pipe scraper $\varnothing$ 75 mm
- Pipe scraper $\varnothing$ 90 mm
- Pipe scraper $\varnothing$ 110 mm
- Case
- Case insert
- Spare blade
- Button
- Drive shaft
- 5 sliding segments
- Grease pencil with retractable lead, yellow

Art. no.	Reece no.	d, $\varnothing$ [mm]
359.916.00.1	1431032	56 / 63 / 75 / 90 / 110

Accessories

- Geberit scraping knife for pipe scraper → p. 69

Geberit pipe scraper



click & scan

Application purposes

- For removing the oxide layer on Geberit HDPE and Geberit Silent-db20 pipes and fittings
- For use with cordless screwdrivers

Art. no.	Reece no.	DN	d, $\varnothing$ [mm]
359.922.00.1	1431033	56	56
359.923.00.1	1431034	60	63
359.924.00.1	1431035	70	75
359.925.00.1	1431036	90	90

Accessories

- Geberit scraping knife for pipe scraper → p. 69

Geberit scraping knife for pipe scraper



click & scan

Art. no.	Reece no.
242.997.00.1	1431041



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Abbreviations

Abbreviation	Designation	Abbreviation	Designation
A	projection (cm)	L	length (cm)
a	partial dimension (cm)	l	length, partial dimension (cm)
A1	projection (cm)	L	L / length (m)
a1	partial dimension (cm)	l1	length, partial dimension (cm)
AB	connection area (mm)	L1	length (cm)
AB1	connection area (mm)	L2	length (cm)
AB2	connection area (mm)	l2	length, partial dimension (cm)
Acm ²	clear cross-sectional area (cm ²)	L3	length (cm)
AD	connecting distance (cm)	l3	length, partial dimension (cm)
AD1	connecting distance (cm)	La	linear expansion (cm)
arc	angle (°)	M	metric thread (mm)
B	width (cm)	m	bolt hole diameter (cm)
b	partial dimension (cm)	n	number of bolts, flange connection (PC)
B1	width (cm)	PN	nominal pressure (bar)
c	flange hole diameter (mm)	R	taper external thread (")
D	outer diameter (cm)	r	radius (cm)
d, ø	outer diameter (mm)	R1	taper external thread (")
D1	outer diameter (cm)	Rg	round thread (")
d1, ø	outer diameter (mm)	Rp	taper internal pipe thread (")
d2, ø	outer diameter (mm)	Rp1	taper internal pipe thread (")
d3, ø	outer diameter (mm)	Rp2	taper internal pipe thread (")
da	outer pipe diameter (mm)	S	pipe series
di, ø	inner diameter (mm)	s	wall thickness (mm)
DN	nominal width	s ISO	wall thickness (for labels) (mm)
DN	nominal width	s1	wall thickness (mm)
DN/OD	nominal width	SW	spanner width (mm)
E	insertion depth (cm)	UNC	inch thread
E1	insertion depth (cm)	V	measuring range, volumetric flow rate (l/min)
G	pipe thread (")	X	leg length / L-dimension (cm)
G1	pipe thread (")	X1	leg length / L-dimension (cm)
G2	pipe thread (")	X2	leg length / L-dimension (cm)
H	height (cm)	X3	leg length / L-dimension (cm)
h	height, partial dimension (cm)	X4	leg length / L-dimension (cm)
H1	height (cm)	X5	leg length / L-dimension (cm)
h1	height, partial dimension (cm)	X6	leg length / L-dimension (cm)
h2	height, partial dimension (cm)	Z	Z-dimension (cm)
h3	height, partial dimension (cm)	Z1	Z-dimension (cm)
IK	grip length, screw (cm)	Z2	Z-dimension (cm)
k	flange, diameter of bolt circle (cm)	Z3	Z-dimension (cm)
K	maximum cutting (cm)	Z4	Z-dimension (cm)
K1	maximum cutting (cm)	Z5	Z-dimension (cm)
K2	maximum cutting (cm)	Z6	Z-dimension (cm)
K3	maximum cutting (cm)		
KL	cable length (cm)		

Geberit HDPE

Technical data

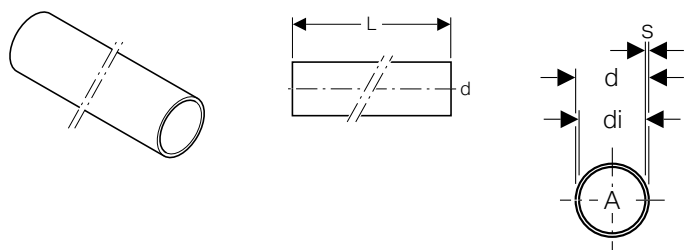
Permitted internal pressure

The Geberit HDPE product range was essentially designed for drainage systems. Geberit has configured the maximum permitted load values for the low pressure range (e.g. pump pressure pipes) to ensure a service life of 10 years.

Pressure	max. 1.5 kPa, up to dimension ø 160
Temperature	30 °C

All connections must be made tension resistant.

Geberit HDPE system



dø [mm]	di [mm]	A [m ²]	s [mm]	Permitted internal negative pressure ¹⁾ [kPa]	Pressure nominal ²⁾ PN [bar]	Series (ISO) S	Weight per m		Article no.	Reece code
							empty [kg]	full [kg]		
40	34	0.0009	3	960	8.1	6.3	0.33	1.23	360.000.16.0	1430000
50	44	0.00152	3	470	6.4	8.3	0.46	1.98	361.000.16.0	1430002
56	50	0.00196	3	330	5.7	-	0.48	2.44	363.000.16.0	1430004
63	57	0.00254	3	230	5	10	0.61	3.15	364.000.16.0	1430006
75	69	0.00373	3	130	4.1	12.5	0.73	4.46	365.000.16.0	1430008
90	83	0.00541	3.5	120	4	12.5	0.96	6.37	366.000.16.0	1430010
110	101.4	0.00807	4.3	120	4	12.5	1.49	9.56	367.000.16.0	1430012
125	115.2	0.01045	4.9	130	4	12.5	1.90	12.35	368.000.16.0	1430014
160	147.6	0.01711	6.2	110	4	12.5	3.00	20.11	369.000.16.0	1430016
200	187.6	0.02764	6.2	60	3.2	16	3.62	31.26	370.000.16.0	1430018
200	184.6	0.02684	7.7	110	4	12.5			370.050.16.0	1430027
250	234.4	0.04315	7.8	60	3.2	16	5.48	48.63	371.000.16.0	1430020
250	230.6	0.04182	9.7	120	4	12.5			371.050.16.0	1430028
315	295.4	0.06853	9.8	60	3.2	16	9.66	78.19	372.000.16.0	1430022
315	290.6	0.06638	12.2	120	4	12.5			372.050.16.0	1430029

¹⁾ Pressure at max. 20 °C and 50 years' service life with a safety factor of 2.0

²⁾ Nominal pressure refers to pipe only, not to fittings

Standards:

- Australia AS/NZS 4401/AS/NZS 5065
- International ISO 8770 / 8772
- European CEN / TC 155 / CEN EN 12056
- Switzerland SN 592 000
- Germany DIN 8075 / 19535 / 19537
- Austria B 5177
- France NF T 54 072
- Italy UNI 8451
- Belgium NBN 42-112
- Netherlands NEN 7008
- Denmark NKB Nr. 8
- Great Britain BS /6367/5572/6437/5114
- Singapore PSB/ENV

Chemical resistance list

The following information is always required for calculating the chemical resistance:

- Conveyed medium (composition, chemical designation)
- Proportion (concentration in %)
- Temperature in °C
- Information about the duration of exposure, frequency, flow rate
- Other conveyed media

Geberit HDPE can be used between pH 0 and pH 14.

The behaviour of the fitting seal ring (EPDM) relating to the chemical resistance is different to Geberit HDPE.

The way in which the Geberit HDPE pipes and fittings behave when coming into contact with the materials flowing through them is classified as follows:

Resistant (+):	The pipe wall material is generally deemed to be suitable.
Resistant to a certain extent (0):	The suitability of the pipe wall material must be verified for the specific application; further testing may be required.
Not resistant (-):	The pipe wall material is generally deemed to be unsuitable.



The resistance of the seals differs from the resistance of the HDPE pipes and fittings. Geberit HDPE can be used between pH 0 and pH 14.

Table 2: Designations used for the composition of the flow substances

%	Percentage values refer to the percentage by weight
VL	Aqueous solution with percent by weight ≤10 %
L	Aqueous solution with percent by weight > 10 %
GL	At 20 °C, saturated aqueous solution
TR	Chemical is, at a minimum, technically pure
H	Commercially available composition
S	Traces < 0.1 %
G	Typically used percent by weight
All	Saturated solution and every dilution

The information given in the following table is based on immersion tests without mechanical stress and correspond to the current level of knowledge. For example, a mixture of different flow substances may lead to new assessment criteria which are not covered by the table below.

The information given makes no assertions. No warranty claims may be derived from it.

Even if Geberit HDPE has been deemed resistant to a substance, swelling may occur (extension of the pipe); consideration must also be given to the fact that a number of substances could measurably diffuse through Geberit HDPE .

Table 3: Resistance list

Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
1,2 dibromethane		0		-	-
2-ethylhexanol		+		0	+
4-methyl-2-pentanol		+		0	+
Acetaldehyde	40	+	+	0	0
Acetaldehyde	TR	+	0	0	0
Acetaldehyde + acetic acid	90:10:00	+			0
Acetamide	TR	+	+	+	+
Acetic acid	70	+	+	+	-
Acetic acid	100	+	0	0	-
Acetic acid butyl ester		+		0	0
Acetic acid ethyl ester (ethyl acetate)	TR	+	0	0	0
Acetic anhydride	TR	+	0	0	0
Acetic anhydride (ethanoic anhydride)	TR	+	0	0	0
Acetoacetic ester		+			0
Acetone	VL	+	+	+	+
Acetone	TR	+	+	0	+
Acetophenone	TR	+			+
Acetylene		+			+
Acronal dispersions	H	+		0	+
Acronal solutions	H	0			-
Acrylic acid emulsions		+	+	+	+
Acrylonitrile	TR	+	+	+	+
Activin (chloramine 1 %)		+	+	+	+
Adipic acid ester		+		0	+
Adipic acids	GL	+	+	+	+
Allyl acetate		+		0	0
Allyl alcohol	96	+	+	+	+
Allyl chloride		0		-	-
Alum (potassium-aluminium sulphate)	All	+	+	+	+
Aluminium chloride	VL	+	+	+	+
Aluminium chloride	GL	+	+	+	+
Aluminium chloride, solid		+	+	+	+
Aluminium fluoride	GL	+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Aluminium hydroxide		+	+	+	+
Aluminium meta phosphate		+	+	+	+
Aluminium sulphate	All	+	+	+	+
Aluminium sulphate, solid		+	+	+	+
Amido sulphate (amido sulphononic acid salts)	All	+	+	+	+
Amido sulphononic acid	All	+	+	+	+
Amino acids		+	+	+	+
Ammonia solution (aqueous ammonia)	All	+	+	+	+
Ammonia, gaseous	100	+	+	+	+
Ammonia, liquid	100	+	+	+	+
Ammonium acetate	All	+	+	+	+
Ammonium carbonate	All	+	+	+	+
Ammonium carbonate and hydrogen carbonate	GL	+	+	+	+
Ammonium chloride	All	+	+	+	+
Ammonium chloride (salmiac)	All	+	+	+	+
Ammonium dihydrogen phosphate	GL	+	+	+	+
Ammonium fluoride	L	+	+	+	+
Ammonium hydrogen sulphate	All	+	+	+	+
Ammonium hydrosulphide	All	+	+	+	+
Ammonium hydroxide (aqueous ammonia)	All	+	+	+	+
Ammonium iron (II) sulphate	GL	+	+	+	+
Ammonium meta phosphate		+	+	+	+
Ammonium nitrate	All	+	+	+	+
Ammonium phosphate	All	+	+	+	+
Ammonium sulphide	All	+	+	+	+
Ammonium thiocyanate		+	+	+	+
Amyl alcohol	TR	+	+	+	+
Amyl chloride	100	0		-	-
Amyl phthalate		+		0	0
Aniline (phenylamine)	GL	0	0	0	-
Aniline chlorine hydrate	All	+	0	0	0
Animal glue (bone glue)	H	+	+	+	+
Anise oil	TR	0	0	-	-
Anon (cyclohexanone)	TR	+	0	0	-
Anthraquinone sulphononic acid	1	+	+	+	+
Antiformin (benzaloxime)	2	+			0
Antifreeze agent (motor vehicles)	H	+	+	+	+
Antimony pentachloride		+	+	+	+
Antimony trichloride	90	+	+	+	+
Antimony trichloride, anhydrous		+	+	+	+
Apple juice	H	+	+	+	+
Aqua regia	TR	-	-	-	-
Aqueous ammonia (ammonia water, ammonium hydroxide)	All	+	+	+	+
Arklone = Freon, Frigen (fluorochlorinated hydrocarbons CFC)	100	0	-		-
Arsenic acid	All	+	+	+	+
Arsenic acid anhydride		+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Ascorbic acid (Vitamin C)		+	+	+	+
Asphalt		+		0	-
Barium carbonate chem. 98/99 %	All	+	+	+	+
Barium hydroxide	All	+	+	+	+
Barium salt	All	+	+	+	+
Battery acid (sulphuric acid 34 %)	H	+	+	+	+
Beef fat		+	+	0	0
Beer	H	+	+	+	+
Beer caramel	H	+	+	+	+
Beeswax	H	+	+	-	-
Benzaldehyde	All	+	+	0	0
Benzaldehyde in isopropanol	1	+	+	+	-
Benzaldoxime (antiformin)	2	+			+
Benzene	TR	0	0	-	-
Benzene sulphonic acid		+	+	+	+
Benzoic acid	All	+	+	+	+
Benzoic acid sodium (sodium benzoate)	36	+	+	+	+
Benzoyl chloride	TR	0	0	0	-
Benzyl alcohol	TR	+	+	+	0
Benzyl chloride		0		-	-
Bichromate sulphuric acid (chromic acid/sulphuric acid)	TR	-	-	-	-
Bismuth nitrate, aqueous	All	+	+	+	+
Bismuth salts		+	+	+	+
Bisulphite lye		+	+	+	+
Bitumen		+		0	-
Bone glue (animal glue)	H	+	+	+	+
Bone oil		+	+	+	-
Borax (disodium tetraborate)	All	+	+	+	+
Boric acid	All	+	+	+	+
Boric acid methyl ester		+		-	0
Boron trifluoride		+		0	-
Brake fluid		+	+	+	0
Brandy (spirits)	H	+	+	+	+
Brandy	H	+	+		+
Bromic acid	40	-	-	-	-
Bromine, liquid and gaseous	All	-	-	-	-
Bromochloromethane		-	-	-	-
Butadiene	50	+			-
Butadiene, gaseous	TR	+			-
Butanediol	All	+	+	+	+
Butanetriol	All	+	+	+	+
Butanol	All	+	+	+	+
Butanone		+		-	+
Butoxyl (methoxybutyl acetate)		+		0	0
Butter		+	+	+	0
Butter milk		+			+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Butyl acetate	TR	+	0	0	0
Butyl acrylate		+		0	0
Butyl alcohol		+	+	+	+
Butyl benzyl phthalate		+	+	+	0
Butylene glycol	TR	+	+	+	+
Butylene, liquid	TR	-	-	-	-
Butylphenol	TR	0			-
Butynediol	100	+	+	+	+
Butyric acid	All	+	+	0	0
Calcium carbide		+	+	+	+
Calcium carbonate	GL	+	+	+	+
Calcium chloride	All	+	+	+	+
Calcium hydroxide	GL	+	+	+	+
Calcium hypochlorite (chlorinated lime)	GL	0	0	-	0
Calcium nitrate	50	+	+	+	+
Calcium oxide (powder)		+	+	+	+
Calcium phosphate		+	+	+	+
Calcium sulphate (gypsum)	GL	+	+	+	+
Calgon (sodium hexametaphosphate)	All	+	+	+	+
Camphor	TR	+		0	-
Camphor		+		0	-
Camphor oil	TR	-	-	-	-
Cane sugar		+	+	+	+
Carbazole		+	+	+	0
Carbolic acid	All	+	+	+	0
Carbolic acid (phenol)	All	+	0	0	-
Carbon disulphide	TR	0	-	-	-
Carbon tetrachloride	TR	-	-	-	-
Carbonic acid (carbon dioxide, soda water)	All	+	+	+	+
Caster oil	TR	+	+	+	0
Caustic potash	50	+	+	+	+
Caustic soda (sodium hydroxide)	All	+	+	+	+
Caustic soda (sodium hydroxide)	All	+	+	+	+
Cetyl alcohol (hexadecanol)		+	+	+	0
Chloracetic acid	All	+	+	+	0
Chloral hydrate	All	+	+	+	0
Chloramine T	TR	+			+
Chloramine T	1	+	+	+	+
Chloric acid	1	+	+	+	0
Chloric acid	10	+	+	+	0
Chloric acid	20	0		-	0
Chlorinated carbonic acid ester		+		0	-
Chlorinated lime (calcium hypochlorite)	GL	0	0	-	0
Chlorinated water	VL	+		0	0
Chlorinated water	GL	0	0	-	0
Chlorine, gaseous, damp	0.5	0		-	0

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		20 °C	40 °C	60 °C	
Chlorine, gaseous, damp	1.0	-	-	-	-
Chlorine, gaseous, damp	97	-	-	-	-
Chlorine, gaseous, dry	TR	0	0	-	-
Chlorine, liquid	TR	-	-	-	-
Chlorobenzene	TR	0		-	-
Chloroethanol	TR	+	+	+	0
Chloroform	TR	-	-	-	-
Chloromethane	TR	-	-	-	-
Chloromethyl, gaseous	TR	0	-	-	-
Chloroparaffin	100	+	0	-	-
Chloropicrin		0		+	-
Chlorosulphonic acid	TR	-	-	-	-
Chrome alum	All	+	+	+	+
Chrome anode slime		+	+	+	+
Chromic acid	20	+	+	0	0
Chromic acid	50	+	0	-	0
Chromic acid/sulphuric acid	15/35	-	-	-	-
Chromic sulphuric acid	TR	-	-	-	-
Chromic sulphuric acid	All	-	-	-	-
Chromium salt	All	+	+	+	+
Chromium trioxide	50	+	0	-	0
Cider	H	+	+	+	+
Citraconic acid	All	+	+	+	
Citrate (citric acid salts)	All	+	+	+	+
Citric acid	10	+	+	+	+
Citric acid	All	+	+	+	+
Citron aldehyde	TR	+		0	0
Citrus juice		+	+	+	+
Citrus juices		+	+	+	+
Clophene (polychlorinated biphenyl PCB)	100	+	0	-	-
Clove oil			+	0	0
Coal gas, benzene-free	H	+			-
Coca Cola		+			+
Cocoa	G	+	+	+	+
Coconut oil	TR	+	+	0	-
Coconut oil alcohol	TR	+	0	0	0
Cod liver		+		0	0
Coffee	G	+	+	+	+
Cognac		+	+	+	+
Cola concentrates		+	+	+	+
Colouring		+	+	+	0
Compressed air, oleiferous		+	+		-
Cooking oil, vegetable and animal		+	+	+	0
Copper chloride	GL	+	+	+	+
Copper cyanide	All	+	+	+	+
Copper fluoride		+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Copper nitrate	30	+	+	+	+
Copper nitrate	GL	+	+	+	+
Copper sulphate	All	+	+	+	+
Corn oil	TR	+	+	0	-
Corsolin (disinfectant; chlorophenol soap solution)	VL	+	+	+	
Coumarone resin		+	+	+	+
Creosote		+	+	+	0
Creosote		+		0	0
Cresol	90	+	+	0	-
Cresol	100	+	+	0	-
Crotonic aldehyde	TR	+		0	+
Crude oil		+		0	-
Cuprous salt	GL	+	+	+	+
Cyclanone	H	+	+	+	+
Cyclanone (fatty alcohol sulphate)	L	+	+	+	+
Cyclohexane	TR	+	+	+	-
Cyclohexanone	TR	+	0	0	-
Decahydronaphthalene (decaline)	TR	0	0	-	-
Defoamers		+		0	+
Detergents		+	+	+	+
Developer solutions (photography)		+	+	+	0
Dextrin	18	+	+	+	+
Dextrose (grape sugar, glucose)	All	+	+	+	+
Di-2-ethylhexylphthalate (DOP)		0			0
Dibutyl ether	TR	+	0	-	0
Dibutyl phthalate	TR	+	0	0	0
Dibutyl sebacate	TR	+		0	0
Dichloroacetic acid	50	+	+	+	0
Dichloroacetic acid	TR	+	+	0	0
Dichloroacetic methyl ester	TR	+	+	+	0
Dichlorobenzene	TR	0		-	-
Dichlorodiphenyltrichloroethane (DDT, powder)		+	+	+	+
Dichloroethane (ethylenchloride)		0	-	-	0
Dichloroethylene	TR	-	-	-	-
Dichloropropane		0		-	-
Dielectric (transformer oil)	100	0	0		-
Diesel fuel	H	0	0	0	-
Diethyl ketone		+		0	-
Diethylene glycol		+	+	+	+
Diethylether (ether, ethyl ether)	TR	0	0	0	-
Diglycolic acid 30 %	30	+	+	+	+
Diglycolic acid saturated	GL	+			+
Dihexyl phthalate	TR	+		0	-
Diisobutyl ketone	TR	+		-	-
Diisopropyl ether		0	0	-	-
Dimethyl sulfoxide		+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Dimethylamine	TR	+	0	0	+
Dimethylformamide	TR	+	+	0	0
Dinonyl phthalate	TR	0			0
Dioctyl phthalate	TR	0			0
Dioxane	TR	+	+	+	0
Diphenylamine		+		0	
Diphenyloxide		+		0	-
Disodium phosphate		+	+	+	+
Disodium sulphate		+	+	+	+
Disodium tetraborate (borax)	All	+	+	+	+
Dispersions		+			
Dodecyl benzene sulphonic acid		+		0	+
Dripping		+	+	+	0
Electrolyte baths for electroplating		0		0	-
Emulsifiers		+	+	+	+
Emulsifiers (tensides)	All	+	+	+	+
Emulsions (photographic)	H	+	+	+	+
Engine oil (HD oil)		+		0	-
Epichlorohydrin		+	+	+	0
Essential oils		-	-	-	-
Ester, aliphatic	TR	+		0	0
Ethane		+	+	+	-
Ethanol (rectified spirit, ethyl alcohol, alcohol)	96	+	+	+	+
Ether (ethyl ether, diethyl ether)	TR	0	0	0	-
Ethyl acetate	100	+	0	-	0
Ethyl acetate	TR	+	0	0	0
Ethyl alcohol (ethanol, rectified spirit, alcohol)	96	+	+	+	+
Ethyl alcohol (fermentation slurry)	G	+		0	+
Ethyl alcohol, denatured (2 % toluol)	96	0			0
Ethyl alcohol+acetic acid (fermentation mix)		+	+	+	+
Ethyl bromide		0		-	0
Ethyl chloride (dichlorethane)		0	0	0	0
Ethyl chloroacetate	TR	+	+	+	-
Ethylbenzene	TR	0			-
Ethylchloride	TR	0			0
Ethylene		+		0	-
Ethylene glycol	TR	+	+	+	+
Ethylene oxide (oxirane), gaseous	TR	+	+	+	0
Ethylene oxide (oxirane), liquid	TR	-	-	-	0
Ethylenediamine	TR	+	+	+	+
Ethylenediamine-tetra acetic acid		+	+	+	+
Ethylether (ether, diethyl ether)	TR	0	0	0	-
Exhaust gases containing carbon dioxide	All	+	+	+	+
Exhaust gases containing carbon monoxide	All	+	+	+	+
Exhaust gases containing hydrochloric acid	All	+	+	+	+
Exhaust gases containing hydrogen fluoride	S	+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Exhaust gases containing oleum	S	-	-	-	-
Exhaust gases containing oleum	≤ 5	-	-	-	-
Exhaust gases containing sulphur dioxide	All	+	+	+	+
Exhaust gases containing sulphur trioxide (oleum)	S	-	-	-	0
Exhaust gases containing sulphuric acid	All	+	+	+	+
Exhaust gases containing sulphuric acid, damp	All	+	+	+	0
Exhaust gases, nitrous (nitric oxide)	S	+	+	+	+
Exhaust gases, nitrous (nitric oxide)	≤ 5	+	+	+	+
Exhaust gases, nitrous (nitric oxide)	> 5			-	+
Exsiccator fat		+		0	0
Fatty acid amides		+		0	0
Fatty acids	TR	+	+	0	-
Fatty acids, techn. pure	100	+	0		-
Fatty alcohol sulphate	H	+	+	+	+
Fatty alcohol sulphate (cyclanone)	L	+	+	+	+
Fatty alcohols		+		0	0
Fermentation compound (ethyl alcohol + acetic acid)	G	+	+	+	+
Fermentation slurry (ethyl alcohol)	G	+		0	+
Ferric chloride	All	+	+	+	+
Fixing salt (sodium thiosulphate)	All	+	+	+	+
Floor wax		+		0	-
Fluorine	TR	-	-	-	-
Fluoroboric acid		+		0	0
Fluorosilicic acid	40	+	+	+	+
Fluorosilicic acid	32	+	+	+	0
Formaldehyde (FORMALIN)	40	+	+	+	+
Formalin (aqueous formaldehyde)	40	+	+	+	+
Formamide	TR	+	+	+	+
Formic acid	10	+	+	+	+
Formic acid	50	+	+	+	+
Formic acid	85	+	+	+	0
Formic acid	TR	+	+	+	0
Frigen 12 (Freon 12)	100	0		-	0
Fruit juices	G	+	+	+	+
Fruit juices, fermented		+	+	+	+
Fruit juices, unfermented		+	+	+	+
Fruit pulp	H	+	+	+	+
Fruit wine	H	+	+	+	+
Furfurol		+		0	0
Furfuryl alcohol	TR	+	+	+	0
Furniture polish		+		0	-
Gelatine	All	+	+	+	+
Gin	40	+			+
Glucose (grape sugar, dextrose)	All	+	+	+	+
Glue		+	+	+	+
Glycerine	All	+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Glycerine chlorohydrin		+	+	+	0
Glycine	VL	+	+	+	+
Glycol	H	+	+	+	+
Glycolic acid	37	+	+	+	+
Glycolic acid	70	+	+	+	+
Glycolic acid butyl ester		+	+	+	0
Glysantine		+	+	+	+
Grape sugar (glucose, dextrose)	All	+	+	+	+
Gravy		+	+	+	+
Gypsum (calcium sulphate)	GL	+	+	+	+
Hair shampoo		+	+	+	+
Halothane		0		-	-
Heating oil	H	0	-	-	-
Heptane	TR	+	0	0	-
Hexadecanol (cetyl alcohol)		+	+	+	0
Hexafluorosilic acid	All	+	+	+	0
Hexahydrophenol	TR	+	+	+	-
Hexamethylenetetramine	All	+	+	+	+
Hexane	TR	+	0	0	-
Hexanetriol	TR	+	+	+	+
Honey		+	+	0	+
Hydrazine hydrate	TR	+	+	+	+
Hydrazinium hydroxide	L	+	+	+	+
Hydrochloric acid	≤ 28	+	+	+	+
Hydrochloric acid	> 28	+	+	0	+
Hydrocyanic acid	TR	+	+	+	0
Hydrocyanic acid	TR	+	+	+	0
Hydrocyanic acid (hydrogen cyanide)	10	+	+	+	+
Hydrocyanic acid (prussic acid)	10	+	+	+	+
Hydrofluoric acid		+			-
Hydrofluoric acid	70	+		0	-
Hydrofluoric acid (fluorhydric acid)	50	+	+	0	-
Hydrogen	TR	+	+	+	+
Hydrogen bromide acid	50	+	+	+	+
Hydrogen bromide, gaseous	TR	+	+	+	+
Hydrogen chloride gas, damp and dry	TR	+	+	+	+
Hydrogen peroxide	10	+	+	+	0
Hydrogen peroxide	30	+	0	0	0
Hydrogen peroxide	90	+	0	-	0
Hydrogen peroxide	30	+	0	0	0
Hydrogen peroxide	90	+	0	-	0
Hydrogen sulphide		+	+	+	0
Hydrogen sulphide, gaseous	GL	+	+	0	0
Hydroquinone	L	+	+	+	0
Hydrosulfite	VL	+	+	+	+
Hydroxylamine sulphate	12	+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Hypochlorous acid		0	0	0	0
Hypochlorous acid		0	0	0	0
Hypophosphite (salt of hypophosphorous acid)	All	+	+	+	
Ink		+	+	+	+
Iodine tincture DAB6	H	+	+	0	0
Iodine-potassium iodide (3 % iodine)		+	+	0	0
i-propanol	TR	+	+	+	+
Iron (II) chloride	GL	+	+	+	+
Iron (II) sulphate	All	+	+	+	+
Iron (III) chloride	All	+	+	+	+
Iron (III) nitrate	L	+	+	+	+
Iron (III) sulphate	GL	+	+	+	+
Iron salt	All	+	+	+	+
Isobutyl alcohol		+	+	+	+
Iso-butyric aldehyde (technically pure)	100	+		-	0
Iso-octane	TR	+	0	0	-
Isopropanol (isopropyl alcohol)	TR	+	+	+	+
Isopropyl acetate	100	+		0	0
Isopropyl ether	TR	0		-	0
Javelle water (sodium hypochlorite)	5	0	0	0	-
Jelly		+	+	+	+
Kaolin elutriated/ground	All	+	+	+	+
Kerosene (petroleum)	TR	0	0	0	-
Ketone		0	0	0	0
Lactic acid	All	+	+	+	0
Lactose		+	+	+	+
Lanolin (wool fat)	TR	0	0	0	0
Latex (rubber dispersions)		+	+	+	+
Lead (II) acetate	All	+	+	+	+
Lead tetraethyl	TR	+			0
Lemon aroma		+			0
Lemon juice		+	+	+	+
Lemon zest oil		+			-
Lemonades		+			+
Levoxin 15 (hydrazine hydrate)	TR	+	+	+	+
Lime water		+	+	+	+
Limescale (calcium carbonate)	GL	+	+	+	+
Linseed oil	TR	+	+	+	0
Lipoides (lecithins; emulsifiers)	All	+	+	+	
Liquid soap		+	+	+	+
Lithium bromide		+	+	+	+
Lubricating oils	H	0	0	0	-
Lysoform (disinfectant; aqueous solution div. higher aldehydes)	VL	+	+	0	
Lysol (cresol soap solution)		+		0	+
Machine oil (free from aromatic compounds)	TR	0		0	-
Magnesium carbonate	GL	+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Magnesium chloride	All	+	+	+	+
Magnesium fluosilicate		+	+	+	+
Magnesium hydroxide	GL	+	+	+	+
Magnesium iodide		+	+	+	+
Magnesium salts	All	+	+	+	+
Magnesium sulphate	All	+	+	+	+
Magnesium sulphate (Epsom salt)	All	+	+	+	+
Maleic acid	GL	+	+	+	0
Malic acid	1	+	+	+	+
Malic acid	50	+	+	+	+
Malic acid	GL	+	+	+	+
Manganese sulphate		+	+	+	+
Margarine		+	+	+	-
Marmelade	H	+	+	+	+
Mashed potatoes		+	+	+	+
Mayonnaise		+			0
Menthol	TR	+	+	0	-
Mercury	TR	+	+	+	+
Mercury chloride	TR	+	+	+	+
Mercury salt	GL	+	+	+	+
Mersol D (compound of higher paraffin sulfonate acid chlorides)	100	-			
Metal soaps		+	+	+	+
Metallic mordants		+			+
Methacrylic acid		+	+	+	0
Methane, gaseous	TR	+			-
Methanol (methyl alcohol)	All	+	+	+	+
Methol (4-methylaminopheno sulphate) (photo developer)	VL	+			0
Methoxybutanol	TR	+	+	0	0
Methoxybutyl acetate (butoxyl)		+		0	0
Methyl acrylate		+	+	+	-
Methyl alcohol (methanol)	All	+	+	+	+
Methyl benzene (toluol)	TR	0	-	-	-
Methyl bromide, gaseous	TR	0	0	-	-
Methyl chloride	TR	0	-	-	-
Methyl chloroacetate	TR	+	+	+	-
Methyl ethyl ketone	TR	+	0	-	0
Methyl glycol		+	+	+	0
Methyl methacrylate		+	+	+	-
Methyl propyl ketone		+		0	0
Methyl salicylate		+		0	-
Methyl sulphuric acid	50	+	+	+	-
Methyl sulphuric acid	100	0			-
Methylacetate	TR	+	+		-
Methylamine	32	+			+
Methylcyclohexane		0		-	-
Methylene chloride	TR	0	0	-	-

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Methylisobutylketone		+		-	0
Milk	H	+	+	+	0
Mineral water	H	+	+	+	+
Mixed acid I (sulphuric acid/nitric acid/water):					
- 48/49/3		-	-	-	-
- 50/50/0		-	-		-
- 10/87/3		-			-
- 50/31/19		-			-
- 50/33/17		-			-
- 10/20/70		0			0
Mixed acid II (sulphuric acid/phosphoric acid/water):					
- 30/60/10		+	0		0
Molasses		+	+	+	+
Mono ethylamine	All	+	+	+	+
Monochlorobenzene		0		-	-
Monochloroacetic ethylester	100	+	+	+	-
Monochloroacetic methylester	100	+	+	+	-
Morpholine	TR	+	+	+	0
Mowilith dispersions		+	+	+	+
Nail polish		+		0	+
Nail polish remover		+		0	0
Naphta	H	0		0	-
Naphthalene	TR	0		0	-
Natural gas	H	+			-
Nekal BX (wetting agent; sodium salts div. isopropyl naphtalene sulphonic acids)	All	+	+	+	
Nickel chloride	GL	+	+	+	+
Nickel nitrate	GL	+	+	+	+
Nickel salts	GL	+	+	+	+
Nickel sulphate	All	+	+	+	+
Nicotine		+	+	+	-
Nicotinic acid	VL	+	+		+
Nitric acid	6.3	+	+	+	+
Nitric acid	25	+	+	+	+
Nitric acid	40	0	0	-	0
Nitric acid	50	0	0	-	0
Nitric acid	65	0	-	-	-
Nitric acid	75	-	-	-	-
Nitrobenzol	TR	+	+	0	-
Nitrocellulose		+			0
Nitrogen (gaseous)	All	+	+	+	+
Nitrotoluenes	TR	+	+	0	-
Nitrous gases	≤ 5	+	+	+	+
N-methylpyrrolidone		+	+	+	0
Nolan diluter		+	+		-
Nolan varnish		+	+		
Nonyl alcohol (Nonanol)		+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Nut oil		+		0	0
Nutrient salt	All	+	+	+	+
Octylcresol	TR	0		-	-
Oils, ethereal		0		-	-
Oils, mineral without additives		0		0	-
Oils, mineral, free from aromatic compounds	H	0	0	0	-
Oils, vegetable and animal	H	+	0	0	-
Oleic acids	TR	+		0	-
Olein (oleic acid)		+	-	0	-
Oleum vapours	TR	-	-	-	0
Oleum vapours (sulphur trioxide)	≤ 5	-			0
Oleum, 10 % SO ₃		-	-	-	-
Optical brighteners		+	+	+	+
Orange juice		+	+	+	+
Orange peel oil		+			-
Oxalic acid	GL	+	+	+	0
Oxygen	TR	+	+	0	+
Ozone	GL	0	-	-	+
Ozone, gaseous 2 %		0	-	-	+
Ozone, gaseous 50 ppm		0		-	+
P 3 7221	VL	+	+		+
P 3 Galvaclean 20	VL	+	+		+
P 3 Galvaclean 42 = P 3 S	VL	+	+		+
P 3 Galvaclean 44	VL	+	+		+
P 3 Galvaclean 45	VL	+	+		+
P 3 Galvaclean 65	VL	+	+		+
P 3 Manuvo hand cleaner	VL	+	+		+
P 3 Saxim	VL	+	+		+
P 3 Standard	VL	+	+		+
Palm kernel fatty acid	TR	+		-	-
Palm kernel oil		+	+	0	0
Palm oil	H	+	+	0	0
Palmitic acid		+	+	+	-
Palmityl alcohol		+	+	+	0
Paraffin	100	+	+	+	-
Paraffin emulsion	H	+	+	0	0
Paraffin oil	TR	+	+	0	-
Paraformaldehyde		+	+	+	+
p-Butylphenol	TR	0			-
Pectin	GL	+	+	+	+
Pentanol	TR	+	+	+	+
Peppermint oil	TR	+			-
Perchlorethylene	TR	0	0	-	-
Perchloric acid	20	+	+	+	0
Perchloric acid	50	+		0	0
Perchloric acid	70	+	0	-	-

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Perfume		+			-
Perhydrol (hydrogen peroxide, aqueous solution)	40	+	0	0	0
Pesticide	G	+	+	+	0
Petrolether	TR	+	0	0	-
Petroleum (kerosene)	TR	0	0	0	-
Petroleum (normal)	H	+	0	0	-
Petroleum ether (benzine, free from aromatic compounds)	100	+	0	0	-
Petroleum spirit (white spirit)	TR	0	0	0	-
Petroleum without additives		0		0	-
Petroleum, free from aromatic substances	H	0	0	0	-
Petroleum, unleaded and free from aromatic compounds	H	0	0	0	-
Petroleum-benzene compound	80/20	0		0	-
Phenol	All	+	+	+	-
Phenol (carbolic acid)	All	+	0	0	-
Phenolic resin moulding compound		+	+	+	0
Phenylamine (aniline)	GL	0	0	0	-
Phenylethyl alcohol		+	+	+	-
Phenylhydrazine	TR	0		-	-
Phenylhydrazine hydrochloride		+		-	+
Phenylsulphonate (sodium dodecylbenzene sulphonate)		+	+	+	+
Phosgene, gaseous	TR	-	-	-	-
Phosgene, liquid	TR	-			-
Phosphate	All	+	+	+	+
Phosphoric acid	50	+	+	+	+
Phosphoric acid	85	+	+	0	+
Phosphoric pentoxide	100	+	+	+	+
Phosphoric trichloride	TR	+	+	0	+
Phosphorous oxychloride		+	+	0	+
Photo developer	H	+	+	+	0
Photo fixing bath	H	+	+		+
Photographic developer	H	+	+	+	+
Photographic emulsion	H	+	+	+	+
Phthalic acid	50	+	+	+	+
Phthalic acid	GL	+	+	+	+
Phthalic acid ester		+		0	0
Picric acid	10	+	+		0
Picric acid	GL	+	+		0
Pinda oil		+	+	+	-
Pine needle oil	H	+	0	0	-
Pine needle oil		+		0	-
Pineapple juice		+	+	+	+
Polychlorinated diphenyl (PCB)		+		-	-
Polyester resins		0		-	-
Polyester softener		+		0	0
Polyglycol		+	+	+	+
Potash (potassium carbonate)	All	+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Potassium aluminium sulphate (alum)	All	+	+	+	+
Potassium bichromate (potassium dichromate)	All	+	+	+	+
Potassium bisulphate	All	+	+	+	+
Potassium borate	10	+	+	+	+
Potassium borate	GL	+	+	+	+
Potassium bromate	VL	+	+	+	+
Potassium bromate	GL	+	+	0	+
Potassium bromide	All	+	+	+	+
Potassium cadmium cyanide	All	+	+	+	+
Potassium carbonate	All	+	+	+	+
Potassium carbonate (potash)	All	+	+	+	+
Potassium chlorate	All	+	+	+	+
Potassium chloride	All	+	+	+	+
Potassium chromate	40	+	+	+	+
Potassium chromate	GL	+	+	+	+
Potassium cyanide	All	+	+	+	+
Potassium cyanide	All	+	+	+	+
Potassium dichromate (potassium bichromate)	All	+	+	+	+
Potassium ferricyanide	All	+	+	+	+
Potassium ferrocyanide (yellow prussiate of potash)	All	+	+	+	+
Potassium fluoride	All	+	+	+	+
Potassium hydroxide (caustic potash)	50	+	+	+	+
Potassium hydroxide (caustic potash)	50	+	+	+	+
Potassium iodide	All	+	+	+	+
Potassium nitrate	All	+	+	+	+
Potassium perborate		+	+	+	+
Potassium perchlorate	GL	+	+	+	+
Potassium permanganate	20	+	+	+	+
Potassium permanganate	GL	+	+	0	+
Potassium persulphate	All	+	+	+	+
Potassium phosphate	All	+	+	+	+
Potassium sulphate	All	+	+	+	+
Potassium sulphite	L	+	+	+	+
Potassium sulphite		+	+	+	+
Potassium tetracyanocuprate		+	+	+	+
Potassium thiosulphate		+	+	+	+
Propane, gaseous	TR	+	+	+	-
Propane, liquid	TR	+	+		-
Propargyl alcohol	7	+	+	+	+
Propionic acid	50	+	+	+	0
Propionic acid	TR	+	0	0	0
Propylene chloride	100	-			-
Propylene glycol	TR	+	+	+	+
Propylene oxide	TR	+	+	+	-
Prussiate of potash (yellow and red)	All	+	+	+	+
Pseudocumol		0		0	-

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Pure acetic acid	TR	+	0	0	-
Pyridin	TR	+	0	0	-
Quinine		+	+	+	+
Rectified spirit (ethanol, ethyl alcohol, alcohol)	96	+	+	+	+
Red prussiate of potash	All	+	+	+	+
Roaster gases, dry	All	+	+	+	+
Rubber dispersions (latex)		+	+	+	+
Rum	40	+	+	+	+
Saccharic acid	GL	+			+
Salicylic acid	GL	+	+	+	+
Salicylic acid methyl ester (methyl salicylate)		+		0	-
Salt (sodium chloride)	All	+	+	+	+
Saturated vapour concentration		+	+	+	+
Scented oils		0		-	-
Sea water	H	+	+	+	+
Sea water (Salt water)	H	+	+	+	+
Sebum	TR	+	+	0	-
Shoe polish		+		0	-
Silicic acid	All	+	+	+	+
Silicone oil	TR	+	+	+	+
Silver nitrate	All	+	+	+	+
Silver salts	GL	+	+	+	+
Slurry		+	+	+	+
Soap solution	All	+	+	+	+
Soda (sodium carbonate)	All	+	+	+	+
Soda water (carbonic acid)	All	+	+	+	+
Sodium acetate	All	+	+	+	+
Sodium aluminium sulphate		+	+	+	+
Sodium benzoate	36	+	+	+	+
Sodium benzoate (benzoic acid sodium)	GL	+	+	+	+
Sodium bisulphite (sodium hydrogen sulphate)	GL	+	+	+	+
Sodium borate		+	+	+	+
Sodium bromate	L	+	0		+
Sodium bromide	L	+	+	+	+
Sodium carbonate (soda)	All	+	+	+	+
Sodium carbonate (sodium hydrogen carbonate)	GL	+	+	+	+
Sodium chlorate	All	+	+	+	+
Sodium chloride (salt)	All	+	+	+	+
Sodium chlorite	VL	+			0
Sodium chlorite	20	+	0	-	0
Sodium chlorite bleach	H	0		-	-
Sodium chromate	VL	+			+
Sodium copper cyanide	All	+	+		+
Sodium cyanide	GL	+	+	+	+
Sodium dichromate	GL	+	+	+	+
Sodium disulphite (sodium bisulphite)	All	+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Sodium dithionite	VL	+	+	+	+
Sodium dodecyl benzene sulphonate (phenylsulphonate)		+	+	+	+
Sodium ferricyanide	GL	+	+	+	+
Sodium fluoride	GL	+	+	+	+
Sodium hydrogen carbonate (sodium bicarbonate)	GL	+	+	+	+
Sodium hydrogen sulphate (sodium bisulphate)	10	+	+	+	+
Sodium hydrogen sulphate (sodium bisulphate)	All	+	+	+	+
Sodium hydroxide (caustic soda)	All	+	+	+	+
Sodium hypochlorite	12.5	0	-	-	-
Sodium hypochlorite (javel water)	5	+	0	0	0
Sodium hypochlorite solution with 12.5 % active chlorine		0	-	-	-
Sodium iodide	L	+			+
Sodium iron cyanide		+	+	+	+
Sodium nitrate	All	+	+	+	+
Sodium nitrite	All	+	+	+	+
Sodium oxalate	GL	+			+
Sodium perborate	All	+		0	+
Sodium perchlorate		+	+	+	+
Sodium peroxide	10	+	+	+	0
Sodium peroxide	GL	0			0
Sodium peroxodisulphate (sodium persulphate)	GL	+	+	+	+
Sodium phosphate	GL	+	+	+	+
Sodium silicate (soluble glass)	All	+	+	+	+
Sodium sulphate	All	+	+	+	+
Sodium sulphate (Glauber salt)	All	+	+	+	+
Sodium sulphide	All	+	+	+	+
Sodium sulphite	GL	+	+	+	+
Sodium thiosulphate (fixing salt)	All	+	+	+	+
Soft soap		+	+	+	+
Soluble glass (sodium silicate)	All	+	+	+	+
Soya oil		+	+	+	0
Spermaceti		+		0	-
Spindle oil	TR	0	0	0	-
Spirit of wine (ethyl alcohol, ethanol, rectified spirit)	96	+	+	+	+
Spirits	H	+		+	+
Stain removal		0	0	0	-
Starch	All	+	+	+	+
Starch syrup	All	+	+	+	+
Stearic acid	TR	+	+	0	+
Styrol		0		-	-
Sublimed sulphur (elementary sulphur in powder form)	TR	+	+	+	+
Succinic acid	All	+	+	+	+
Suet		+	+	0	0
Sugar solutions	All	+	+	+	+
Sugar syrup	H	+	+	+	+
Sulfuryl chloride	TR	-	-	-	0

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Sulphate	All	+	+	+	+
Sulphur	TR	+	+	+	+
Sulphur dioxide, gaseous, dry and damp	TR	+	+	+	+
Sulphur dioxide, liquid	TR	0		0	+
Sulphur trioxide	TR	-	-	-	-
Sulphur trioxide (oleum vapours)	≤ 5	-			0
Sulphuric acid	10	+	+	+	+
Sulphuric acid	70	+	+	+	0
Sulphuric acid	90	0	0	-	-
Sulphurous acid	GL	+	+	+	0
Table salt, saturated (brine)	100	+	+	+	+
Tannic extract from cellulose	H	+	+	+	0
Tannic extract, vegetable	H	+			0
Tannin (Tannic acid)	10	+	+	+	0
Tannin	10	+	+	+	+
Tar		+		0	-
Tartaric acid	All	+	+	+	0
Tea	GL	+	+	+	+
Tetrabromoethane		-	-	-	-
Tetrachloroethane	TR	-	-	-	-
Tetrachloroethylene	TR	0	0	-	-
Tetrahydrofuran	TR	-	-	-	-
Tetralin	TR	0	0	-	-
Thionyl chloride	TR	-	-	-	+
Thiophene	TR	0	0	-	-
Thiourea	All	+	+		+
Tin (II) chloride	All	+	+	+	0
Tiutol (hypochlorite) (chlorine bleaching, Javelle water)	12.5	0	-	-	-
Toluene		+		0	-
Toluol (methylbenzene)	TR	0	-	-	-
Tomato juice		+	+	+	+
Transformer oil	TR	0		0	-
Treacle	H	+	+	+	0
Treacle	All	+	+	+	+
Tri-2-chloroethyl phosphate		+	+	+	-
Tributyl phosphate	TR	+	+	+	+
Trichloroacetic acid	50	+	+	+	0
Trichloroacetic acid	TR	+	0	-	0
Trichlorobenzene		-	-	-	-
Trichloroethane	TR	0			-
Trichloroethane, gaseous	100	0	-	-	-
Trichloroethylene	TR	0	-	-	-
Trichlorofluoroethane (Frigen 11, Sdp. 24 °C)	100	0	-		-
Tricresylphosphate	TR	+	+	+	0
Triethylene glycol		+	+	+	+
Trilon		+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Trimethylborate		+		-	0
Trimethylolpropane		+	+	+	+
Trioctyl phosphate	TR	+	+	0	0
Trisodium phosphate		+	+	+	+
Turpentine oil	TR	0	0	0	-
Two-stroke oil		0		0	-
Typewriter oil		+	+	0	-
Universal dilution		0	0		-
Urea nitrate	33	+	+	+	+
Uric acid	GL	+	+	+	+
Urine		+	+	+	+
Vaseline oil	TR	0	0	0	-
Vinegar (wine vinegar)	H	+	+	+	0
Vinyl acetate	TR	+	+	0	-
Viscose spinning solutions		+	+	+	-
Vitamin C (ascorbic acid)		+	+	+	+
Walnut oil		+		0	0
Washing detergent	G	+	+	+	+
Washing-up liquid		+	+	+	+
Washing-up liquid	H	+	+	+	+
Water, chlorinated drinking water		+	+	+	+
Water, de-ionised		+	+	+	+
Water, demineralised		+	+	+	+
Water, distilled		+	+	+	+
Water, ozonised drinking water		+			+
Wax		+		0	0
Wax alcohols	TR	0	0	-	0
Wetting agent	5	+			+
Whey		+	+	+	+
Whisky	H	+			+
White spirit	TR	0	0	0	-
Wine	H	+	+	+	+
Wine vinegar (vinegar)	H	+	+	+	0
Wood stain	G	+		0	0
Wool fat (lanolin)	TR	0	0	0	0
Xylol (mixed isomers)	TR	-	-	-	-
Yeast	All	+	+	+	+
Yeast wort (aqueous solution of maltose and dextrines)	L	+	+	+	+

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Flow substance	Share %	Geberit PE Behaviour at			EPDM seal Behaviour at 20 °C
		20 °C	40 °C	60 °C	
Zapon dilution		0	0		-
Zinc carbonate	GL	+	+	+	+
Zinc chloride	All	+	+	+	+
Zinc dust	All	+	+	+	+
Zinc oxide	GL	+	+	+	+
Zinc salts	All	+	+	+	+
Zinc sludge		+	+	+	+
Zinc stearate		+	+	+	+
Zinc sulphate	All	+	+	+	+

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Physical characteristics of Geberit HDPE

Table 27: Physical characteristics of Geberit HDPE

Characteristics	Unit	Test method	Test specimen	Value
Density	g/cm ³	DIN 53479	Plate	0.953...0.955
Reduced specific viscosity (viscosity coefficient)	dl/g	ISO/R 1191	0.1% solution	3.0
Melt-flow index MFI 190/5	g/10 mins.	DIN 53735	in decalin granulate	0.4...0.7
Mechanical characteristics , measured under standard climatic conditions 23 °C, 50% relative air humidity				
Tensile strength	N/mm ²	DIN 53455, ISO/R 527; test velocity 125mm/min	Test specimen 3 with measurements in the ratio 1:4	22
Elongation at yield stress	%			15
Ultimate tensile strength	N/mm ²			32
Elongation at break	%			>800
Limit bending strengt	N/mm ²	DIN 53452	Standard small bar injection moulded	28
Torsional rigidity	N/mm ²	DIN 53447	60 mm x 6.35 mm x 2 mm	240
Bending creep modulus 1 minute value	N/mm ²	Bending creep test ob 3 N/mm ²	120 mm x 20 mm x 6 mm	800
Indentation hardness 30 second value	N/mm ²	DIN 53546, Test strengt 132, 4 N	Sheet, 4 mm	40
Shore hardness D	-	DIN 53505	Sheet, 4 mm	60
Impact strengt	mJ/mm ²	DIN 53453	Standard small bar, moulded	15
Impact strengt at +23 °C and -40 °C	mJ/mm ²	DIN 53453	Standard small bar, injection moulded	
Thermal characteristics				
Crystallite melting range	°C	Polarisation microscope	Microtone section	127...131
Mean linear expansion coefficient between 20 °C and 90 °C	K-1	DIN 52328; ASTM D 696	50 mm x 4 mm x 4 mm	1.7·10 ⁻⁴
Heat conductivity at 20 °C	Wm · k	DIN 52612 sheet method	Plate, 8 mm Injection, moulded	0.43

Appendix

Geberit HDPE

Physical characteristics of Geberit HDPE

Characteristics	Unit	Test method	Test specimen	Value
Electrical properties , measured under standard climatic conditions of 23 °C, 50% relative air humidity				
Specific transmission resistance	$\Omega \cdot \text{cm}$	DIN 53482, VDE 0303 Part 3	Foil, 0.2 mm	>1016
Surface resistance	Ω	DIN 53482, VDE 0303 Part 3	Sheet, 1 mm	>1013
Electric strength	kV/cm	DIN 53481, VDE 0303 Part 2	Foil, 0.2 mm	700
Dielectric index ϵ_r , (relative dielectric constant) at 2,106 Hz	-	DIN 53483, VDE 0303 Part 4 (immersion method)	Foil, 0.2 mm	2.50
Dielectric loss factor $\tan \delta$ at 50 Hz	-	DIN 53483, VDE 0303 Part 4	Foil, 0.2 mm	$6 \cdot 10^{-4}$
	103 Hz	-		$5 \cdot 10^{-4}$
	104 Hz	-		$5 \cdot 10^{-4}$
	105 Hz	-		$6 \cdot 10^{-4}$
Track resistance		DIN 53480, VDE 0303 Part 1	Sheet 3 mm	KA 3c KC > 600
Arc resistance		DIN 53484, VDE 0303 Part 5	120 mm x 120 mm x 10 mm	L4



In a number of countries, a tensile test is carried out on a test specimen taken in longitudinal (or transversed) direction of the pipe, e.g. in Great Britain according to BS 3284. The values thereby obtained do not necessarily need to agree with those given table, which applies especially for the in the elongation at break.



The values given above relate exclusively to the corresponding test methods or test specimens. Results which are obtained with specimens taken from pipes may not agree. In contrast with injection, moulded specimens are free from flow orientations. This strongly influences the test result. Measurement with moulded bars is therefore preferred.

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152.041.16.1	43	359.442.00.2	22	361.000.16.0	8	364.561.16.1	16
152.043.16.1	42	359.443.00.2	22	361.045.16.1	9	364.566.16.1	16
152.113.16.1	43	359.444.00.2	22	361.055.16.1	10	364.700.16.1	21
152.114.16.1	43	359.445.00.2	22	361.088.16.1	9	364.724.16.1	27
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152.181.16.1	43	359.448.00.2	22	361.112.16.1	12	364.744.16.1	27
152.496.00.1	30	359.449.00.2	22	361.159.16.1	13	364.749.16.1	26
152.690.00.1	30	359.450.00.2	22	361.162.16.1	13	364.771.16.1	20
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242.997.00.1	69	359.457.00.1	23	361.727.16.1	27	365.051.16.1	10
356.118.00.1	68	359.458.00.1	23	361.740.16.1	25	365.055.16.1	10
356.201.00.1	65	359.459.00.1	23	361.750.16.1	26	365.088.16.1	9
357.449.00.1	67	359.461.16.1	23	361.771.16.1	20	365.109.16.1	12
358.060.00.1	60	359.462.00.1	23	361.779.16.3	21	365.112.16.1	12
359.034.00.1	56	359.463.00.1	23	361.783.00.1	31	365.115.16.1	12
359.036.00.1	59	359.464.00.1	23	361.812.16.1	29	365.120.16.1	12
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359.105.00.1	52	359.641.P6.2	65	363.115.16.1	12	365.451.16.1	18
359.108.00.1	53	359.662.00.1	65	363.162.16.1	13	365.558.16.1	16
359.111.00.1	56	359.665.P6.2	66	363.165.16.1	13	365.561.16.1	16
359.114.00.1	59	359.813.00.1	67	363.558.16.1	16	365.566.16.1	16
359.117.00.1	52	359.814.00.1	67	363.560.16.1	17	365.571.16.1	16
359.342.00.1	57	359.816.00.1	67	363.561.16.1	16	365.673.00.1	34
359.343.00.1	58	359.819.00.1	67	363.673.00.1	34	365.700.16.1	21
359.344.00.1	58	359.884.00.1	67	363.700.16.1	21	365.725.16.1	27
359.345.00.1	54	359.910.P6.1	64	363.724.16.1	27	365.729.16.1	27
359.346.00.1	55	359.911.P6.1	64	363.728.16.1	27	365.740.16.1	25
359.347.00.1	55	359.912.00.1	68	363.740.16.1	25	365.750.16.1	26
359.424.00.2	22	359.915.00.1	68	363.750.16.1	26	365.771.16.1	20
359.425.00.2	22	359.916.00.1	69	363.771.16.1	20	365.772.16.1	28
359.426.00.2	22	359.922.00.1	69	363.779.16.3	21	365.779.16.3	21
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359.430.00.2	22	360.000.16.0	8	363.931.16.1	25	366.000.16.0	8
359.431.00.2	22	360.045.16.1	9	363.932.16.1	26	366.045.16.1	9
359.432.00.2	22	360.055.16.1	10	364.000.16.0	8	366.055.16.1	10
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367.112.16.1	12	368.000.16.0	8	370.139.16.1	12		
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