

Product Catalogue 01/2017

FRIATEC Building Services Division



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* In general:

The first two figures of the Ref.-No always shows to which product range the product belongs.(e.g.: 554042 = product range 55)..

Terms and Conditions of Sale

FRIATEC AG

Building Services Division

1. Scope

These terms and conditions of sale constitute the sole agreement between the parties and shall supersede any terms of Buyer diverging from or contradicting FRIATEC' s terms and conditions, even if FRIATEC has not explicitly contradicted them.

2. Conclusion of contract - confidentiality

- 2.1 FRIATEC' s quotations shall not be binding. The contract shall not be validated until FRIATEC has accepted the order in writing. FRIATEC' s order confirmation shall prevail for the terms and scope of this agreement.
- 2.2. Buyer agrees to keep confidential any drawings, designs, calculations, data, documentation and any other information provided by FRIATEC. FRIATEC reserves ownership and copyright in such information. Buyer may not disclose any such information to any third party without FRIATEC' s express approval.
- 2.3 FRIATEC may make design changes on any of the ordered goods provided that no such change will result in substantial changes of the goods' functioning or Buyer furnishes evidence that such change is intolerable.
- 2.4 FRIATEC only provides warranties for the nature of goods as expressly guaranteed in FRIATEC' s order confirmation or advertisements.

3. Delivery term

- 3.1 The delivery term stated by FRIATEC shall commence only after the parties have agreed on all technical specifications.
- 3.2 FRIATEC' s compliance with delivery dates and terms is subject to correct and timely deliveries made by its suppliers.
- 3.3. Should Buyer desire subsequent changes or should circumstances beyond FRIATEC' s control prevent any deliveries, the delivery term shall be reasonably extended.

4. Prices and & payment terms

- 4.1 Prices shall be ex works or ex stock plus value added tax at the statutory rate. Insurance, packing, shipment costs, and duties will be charged separately to Buyer. FRIATEC reserves the right to reasonably adjust its prices in the event of cost reductions or increases which are in particular due to design changes under the terms of Clause 2.2, wage settlements, or material price variances. At Buyer's request, FRIATEC will provide evidence for such adjustments.
- 4.2. Payment of invoices shall be made in full within 30 days of the date of invoice. FRIATEC allows a 2% discount if payment is received within two weeks; such discount, however, will only be granted if all prior invoices have been paid.
- 4.3 FRIATEC will decide in each individual case whether or not it will accept bills of exchange and checks. No discounts are allowed for bills of exchange as payment. Bills of exchange and cheques are accepted as conditional payment only. Payment shall be deemed cleared after redemption, or credit of payment. Any expenses incurred by FRIATEC or any other costs shall be borne by Buyer.
- 4.4 Should Buyer fail to comply with payment terms or in the event of circumstances questioning Buyer's creditworthiness, FRIATEC may demand prompt cash payment for all deliveries. Furthermore, FRIATEC shall be entitled to prohibit resale of goods delivered with retention of title and to repossess the goods at Buyer's expense after FRIATEC has rescinded the contract.

5. Passage of risk - insurance

- 5.1 When delivery is available and Buyer has been notified that goods are ready for shipment, the risk shall pass to Buyer. This provision shall also apply if shipment is delayed due to circumstances which are beyond FRIATEC's control. Should FRIATEC fail to notify Buyer that goods are ready for shipment, the risk shall pass to the carrier when goods are delivered to carrier, and to Buyer when goods leave the plant or warehouse at the latest. This provision shall also apply in the event of FRIATEC using its own transport services or when goods are sent carriage paid.
- 5.2 Buyer shall undertake to sufficiently insure goods as long as FRIATEC retains title to the goods. Nevertheless FRIATEC may - but shall not be obliged to - arrange for a transport insurance for the goods to be shipped to Buyer in Germany and to charge Buyer with the costs incurred.

6. Notice of defects, claims, period of limitation

- 6.1 Buyer shall inspect goods immediately on receipt for defects. Buyer must give notice of defect in writing immediately after receipt of goods and at the latest within two weeks after Buyer's receipt. The same period shall apply for hidden defects following discovery of such defect. Failure to notify FRIATEC about defects may result in Buyer's loss of right to have the defect remedied.
- 6.2 In the case of justified complaints FRIATEC will, at its discretion, remedy the defect or deliver a replacement. Should FRIATEC fail to remedy the defect within a reasonable period of time or after no more than two attempts, or deliver a replacement, Buyer shall have the right to rescind the agreement or to demand an abatement of the purchase price. Buyer may not rescind from the Agreement if FRIATEC's breach of obligations was negligible.
- 6.3 The period of limitation for claims arising from defects is:
- a) Five years for delivered construction materials that have been installed and have caused defects in a building.
 - b) One year for any other new goods delivered to entrepreneurs within the meaning of § 14 BGB (German Civil Code).
 - c) Otherwise two years.
- The period of limitation shall commence upon delivery of the goods.

7. Retention of Title

- 7.1 Deliveries are always made with retention of title. FRIATEC retains a right of possession in the goods until Buyer makes full payment of all claims arising from the business relation with Buyer. In the case of an open account, retained title to the goods shall be deemed to secure the balance of FRIATEC's balance claim.
- 7.2 Buyer shall be entitled to resell delivered goods in the ordinary course of business. In this case Buyer assigns to FRIATEC to the value of the retained goods, the claims arising from the resale such goods. At FRIATEC's request Buyer shall disclose the debtors of the assigned claim to FRIATEC and notify said debtors about the assignment. Buyer undertakes to advise FRIATEC without delay of any attachment or any other impairment of its security rights by third parties.
- 7.3 At the request of Buyer, FRIATEC undertakes to release the securities to which FRIATEC is entitled to the extent the realisable value of said securities exceeds 10% of the claim to be secured.

8. Force Majeure - right of rescission

Should FRIATEC be prevented from meeting its delivery commitments due to the occurrence of an event of Force Majeure or any other circumstances beyond FRIATEC's control, or should FRIATEC's performance of obligations become intolerable due to such reasons, FRIATEC shall have the right to rescind the Agreement. Buyer shall not have any claim for damages against FRIATEC on account of such rescission. FRIATEC shall have the right to rescind the Agreement, even if FRIATEC initially notified Buyer about an extension of delivery time.

9. Limitation of liability - indemnity against infringement of rights

- 9.1. In the event of death, physical injury, or any health impairments attributable to FRIATEC, FRIATEC shall be held liable under the provisions of law.
- 9.2 The following shall apply for any other damages:
- a) FRIATEC shall be liable under the provisions of law for any damages due to a gross breach of duty by FRIATEC or a wilful or gross breach of duty by FRIATEC's legal representatives or vicarious agents.
 - b) For damages due to a material breach of the Agreement caused by slight negligence on the part of FRIATEC, its legal representatives or vicarious agents, liability for any foreseeable damage that may typically arise hereunder, shall not exceed the value of the delivery item.
 - c) FRIATEC will not be liable for any claims or damages arising from the breach of collateral duties or non-essential duties caused by slight negligence.
 - d) FRIATEC will not be liable for any claims or damages arising from slight negligence; after a reasonable period of time has passed, the statutory rights of shall remain unaffected.
- 9.3 Limitation or exclusion of liability shall not apply in the event of FRIATEC having fraudulently concealed defects, or assumed warranty responsibilities for the nature of goods.
- 9.4 Buyer's claim to reimbursement of abortive expenses in lieu of indemnity, and liability pursuant to the Product Liability Act (Produkthaftungsgesetz) shall remain unaffected.

10. Non-assignment

Unless expressly agreed otherwise with Buyer, Buyer may not assign its rights hereunder to any third parties without FRIATEC's consent.

11. Applicable law, jurisdiction

- 11.1 These General Terms and Conditions shall be governed by German law, to the exclusion of the CISG.
- 11.2 If Buyer is a merchant, public corporation, or public asset, or if Buyer has no jurisdiction in Germany, the parties shall agree that the exclusive venue for resolving disputes between the parties shall be in Mannheim. FRIATEC, however, reserves the right to institute legal proceedings against Buyers without general jurisdiction in Germany at any other court of competent jurisdiction.

Updated January 2002

- Pictures shown may deviate from actual product
- This price list can be requested from us in DATANORM format (4.0) or in PDF format (E-Mail: info-gebauedetechnik@friatec.de)
- This pricelist supersedes all pricelists so far released
- All prices indicated in this pricelist are recommended retail prices in EURO, exclusive of VAT
- All articles listed may be obtained from specialised wholesalers only
- Technical modifications as well as alterations in terms of dimensions and/or measurements excepted
- All articles may be obtained in package units only
- For misprints we accept no liability

All transactions are subject to our General Terms and Conditions of Delivery and Payment.
These are available for inspection, download and printing at: www.friatec.de -> Webcode FG10011 or
Building Services Division -> Documents -> Terms of Delivery

www.friatec.com> Building Services Division

From our website FRIATEC AG, Building Services Division, you can download for the product ranges Piping systems and Pre- and In-Wall installation descriptions, novelties as well as brochures and technical manuals.



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FRIATHERM® rigid fittings

Transitions, external thread, short



for drinking water pipelines; produced according to DIN 8080 and 8079; with bonded connection for FRIATHERM rigid.

Pipe dimension	Ref.No.	d	PN/SDR	Type	PU1	Order qty (unit)
d 16 x 2,0	554042	16 x R ½	25/9,0	tin-coated brass	1	
d 20 x 2,3	554052	20 x R ½	25/9,0	tin-coated brass	1	
d 25 x 2,8	554062	25 x R ¾	25/9,0	tin-coated brass	1	
d 32 x 3,6	554072	32 x R 1	25/9,0	tin-coated brass	1	

Union couplings, external thread



for transitions from threaded connections of valves, equipment and pipes in drinking water pipelines; produced according to DIN 8080 and 8079; consisting of bonding sleeve, union nut (tin-coated brass), flat gasket (EPDM) and threaded nipple (tin-coated brass).

Pipe dimension	Ref.No.	d	PN/SDR	Thread union nut	Type	PU1	Order qty (unit)
d 40 x 4,5	554413	40 x R 1 ¼	25/9,0	R 2	tin-coated brass	1	
d 50 x 5,6	554415	50 x R 1 ½	25/9,0	R 2 ¼	tin-coated brass	1	
d 63 x 7,1	554417	63 x R 2	25/9,0	R 2 ¾	tin-coated brass	1	

Flanges



for transitions from threaded connections to valves, equipment and pipes in drinking water pipelines; produced according to DIN 8080 and 8079; consisting of standard flange, backing ring with bonding sleeve and flat gasket (fiber).

Pipe dimension	Ref.No.	d	PN/SDR	Holes	Type	PU1	Order qty (unit)
d 40 x 4,5	554616	40	25/9,0	4	flat gasket	1	
d 50 x 5,6	554618	50	25/9,0	4	flat gasket	1	
d 63 x 7,1	554621	63	25/9,0	4	flat gasket	1	
d 75 x 5,6	554622	75	16/13,6	4	flat gasket	1	
d 90 x 6,7	554624	90	16/13,6	8	flat gasket	1	

FRIATHERM® rigid fittings

FRIATHERM® Component+ adhesive



for high-strength FRIATHERM rigid bonded joints, fittings and adapters.

Pipe dimension	Ref.No.	Type	PU1	Order qty (unit)
d 16 - 32	557170	120 g tin (125 ml)	1	
d 40 - 90	557330	385 g tin (400 ml)	1	

FRIATHERM® fittings and TECEquickpipe pipes

Glued connections of TECEquickpipe pipes and FRIATHERM rigid fittings in dimensions d16 to d90 can be made.

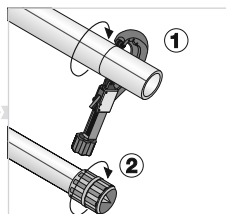
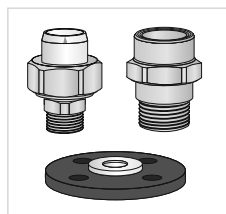
For that the following **conditions** are to be fulfil:

- our FRIATEC Component+ solvent cement is used exclusively
- appropriate tools and materials are used
- the pressure levels specified in the planning documentation of the installed TECEquickpipe network are observed at all times.

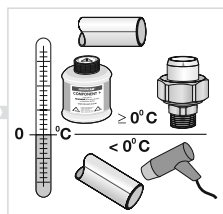
Note:

Combinations of TECEquickpipe fittings with FRIATHERM rigid pipes are not allowed.

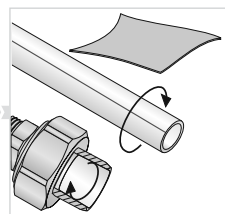
Establishing a press-fit welding joint



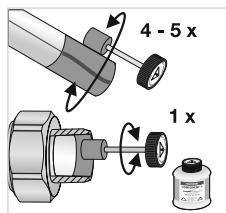
- Pipe cutting
- Deburring



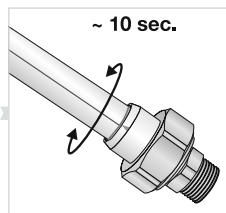
- Surface and adhesive must be kept at $\geq 0^{\circ}\text{C}$ during gluing process



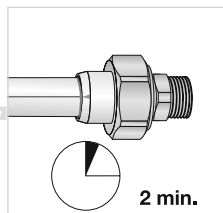
- Surface to be cleaned with grease-free cloth



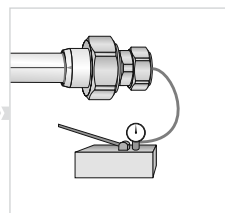
- Apply Component+



- Push parts together, adjust and hold in place for at least 5 seconds



- Allow to set for 2 minutes



- $\geq 10^{\circ}\text{C} \leq 6 \text{ bar}$ after 30 min
- $\geq 10^{\circ}\text{C} \leq 15 \text{ bar}$ after 120 min
- $\leq 10^{\circ}\text{C} \leq 15 \text{ bar}$ after 240 min

FRIATHERM® rigid fittings
Transition from FRIATHERM® rigid pipes d 15, d 22, d 28 to d 16, d20, d 25

d
15
22
28



FRIATHERM rigid pipe from 1982 to 1989

d	Ref.No.
15/16	550205
22/20	550207
28/25	550209



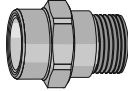
FRIATHERM rigid transition sleeve

d	Ref.No.
16	559104
20	559106
25	559108



FRIATHERM rigid pipe as from 1990

d	Ref.No.
16 x ½	554042
20 x ½	554052
25 x ¾	554062



FRIATHERM rigid transitions, external thread, short

Transition sleeves for outer diameters d 15, d 22, d 28


for transition to FRIATHERM rigid pipes produced until the year 1989. These pipes have had, compared to today's range (d 16, d 20, d 25), different outer diameters (d 15, d 22, d 28).

Pipe dimension	Ref.No.	d	PU1	Order qty (unit)
d 16 x 1,8	550205	15/16	1	
d 22 x 2,5	550207	22/20	1	
d 28 x 3,0	550209	28/25	1	

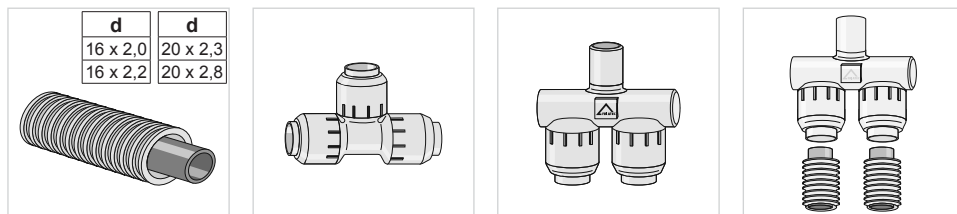
Pipes - 20 cm


FRIATHERM rigid pipe sections 20 cm.

Pipe dimension	Ref.No.	DN	d	PN/SDR	PU1	Order qty (unit)
d 16 x 2,0	559104	12	16	25/9,0	1	
d 20 x 2,3	559106	15	20	25/9,0	1	
d 25 x 2,8	559108	20	25	25/9,0	1	

FRIATHERM® transitions flexible

FRIATHERM® flexible (Polybuten-pipes) up to 1999



FRIATHERM® transitions flexible, external thread



for transition to FRIATHERM flexible pipe Polybuten (PB);
consisting of:

d 16 mm transition 16 x ½; support bush 16 x 2,0 mm and 16 x 2,2 mm

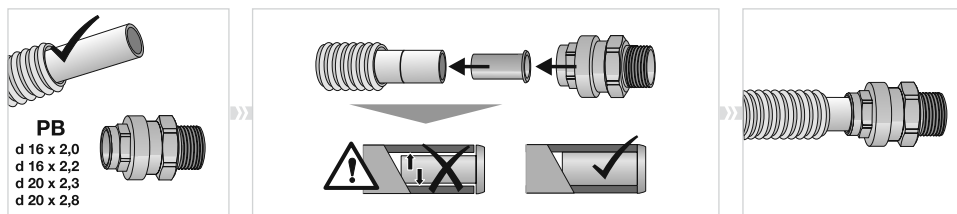
d 20 mm transition 20 x ½; support bush 20 x 2,3 mm and 20 x 2,8 mm

Pipe dimension	Ref.No.	d	PU1	Order qty (unit)
d 16 x 2,0	554801	16 x ½	1	
d 16 x 2,2				
d 20 x 2,3	554802	20 x ½	1	
d 20 x 2,8				

Assembly instruction for FRIATHERM® transitions flexible, external thread

Note:

A preparation of the pipe ends is not necessary due to the design of the support bush.



FRIATHERM® rigid spare parts

Flat gaskets



suitable for union couplings and valve connectors.

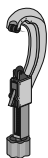
Ref.No.	d	PU1	Order qty (unit)
555703	$\frac{1}{2}$ (da = 18, di = 14, s = 2)	1	
555705	$\frac{3}{4}$ (da = 24, di = 17, s = 2)	1	
555707	1 (da = 30, di = 21, s = 3)	1	
555709	1 $\frac{1}{4}$ (da = 38, di = 27, s = 3)	1	
555711	1 $\frac{1}{2}$ (da = 44, di = 32, s = 3)	1	
555713	2 (da = 55, di = 42, s = 3)	1	
555716	2 $\frac{1}{4}$ (da = 62, di = 46, s = 3)	1	
555718	2 $\frac{3}{4}$ (da = 78, di = 60, s = 3)	1	

Classification flat gaskets

Ref.No.	Fitting connectors with bonded nipple	Fitting connectors with bonded socket	Union couplings, external thread	Union couplings, internal thread
555703	554705 d 16 x R $\frac{1}{2}$			
555705	554707 d 20 x R $\frac{3}{4}$	554305 d 16 x $\frac{3}{4}$	554405 d 16 x R $\frac{1}{2}$	554404 d 16 x R $\frac{1}{2}$
555707	554709 d 25 x R 1	554307 d 20 x R 1	554407 d 20 x R $\frac{1}{2}$	554406 d 20 x R $\frac{1}{2}$
555709	554711 d 32 x R 1 $\frac{1}{4}$	554309 d 25 x R 1 $\frac{1}{4}$	554409 d 25 x R $\frac{3}{4}$	554408 d 25 x R $\frac{3}{4}$
555711		554311 d 32 x R 1 $\frac{1}{2}$	554411 d 32 x R 1	554410 d 32 x R 1
555713		554313 d 40 x R 2	554413 d 40 x R 1 $\frac{1}{4}$	554412 d 40 x R 1 $\frac{1}{4}$
555716		554315 d 50 x R 2 $\frac{1}{4}$	554415 d 50 x R 1 $\frac{1}{2}$	554414 d 50 x R 1 $\frac{1}{2}$
555718		554317 d 63 x R 2 $\frac{3}{4}$	554417 d 63 x R 2	554416 d 63 x R 2

FRIATHERM® rigid assembly instructions

Pipe cutting



Pipe cutting

Pipes are generally cut by means of a roller pipe cutter or by a mitre saw.
Only use roller pipe cutters suitable for plastic pipes.
Do not use pipe scissors.

Deburring



Deburring

Use reamers depending on the relevant dimensions

- Inside and outside chamfering tool d 16 - 25 mm
- Chamfering tool d 20 - 63 mm

Standard reamers/chamfering tools suitable for plastic pipes can be used

FRIATHERM multi® fittings and tools

No push-fit fittings are available for FRIATHERM multi® pipes.

With the following FRIATHERM uni® transitions it is possible to continue existing FRIATHERM multi® installations.

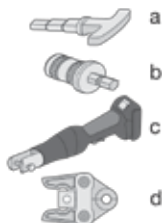
Transitions, external thread



for drinking water and heating lines composed of FRIATHERM uni and FRIATHERM multi pipes;
material: tin-coated brass, pre-assembled press-fit bush made of stainless steel, with inspection window

Pipe dimension	Ref.No.	d	PU1	Order qty (unit)
d 16 x 2,0	544311	16 x R ½	1	
d 20 x 2,3	544321	20 x R ½	1	
d 25 x 2,8	544331	26 x R ¾	1	

Tools for press-fit connections (rental basis)



These items will only be available on a rental basis and have to be sent back after the successful installation. The tools **can't be purchased**.

Note:

- For the dimensions d 16 and d 20 the FRIATHERM multi pipes can - after chamfering and calibration of the pipes - directly be pressed with the FRIATHERM uni transitions
- For the FRIATHERM multi pipe in dimension **d 25** the special chamfering tool (Ref.No. 548932) has to be used before connecting with the FRIATHERM uni transition in d 26 and pressing
- For FRIATHERM uni® transitions in d 16 - 26 mm pressing jaws with H contour have to be used.

Pipe dimension	Ref.No.	Figure	d	Type	PU1	Order qty (unit)
d 16 - 20	548922	a	16/20/26	Chamfering and calibration tool with handle	1	
d 25	548932	b	25/26	Chamfering and calibration tool without handle	1	
d 16 - 25	548632	c	16 – 32	Mini-batter-presser MAP2L	1	
d 16	548811	d	16	Pressing jaws MAP2L	1	
d 20	548821	d	20	Pressing jaws MAP2L	1	
d 25	548831	d	26	Pressing jaws MAP2L	1	

FRIATHERM uni® fittings and tools

Transitions, external thread



for drinking water and heating lines composed of FRIATHERM uni and FRIATHERM multi pipes;
material: tin-coated brass, pre-assembled press-fit bush made of stainless steel, with inspection window

Pipe dimension	Ref.No.	d	PU1	Order qty (unit)
d 16 x 2,0	544311	16 x R ½	1	
d 20 x 2,5	544321	20 x R ½	1	
d 26 x 3,0	544331	26 x R ¾	1	
d 32 x 3,0	544341	32 x R 1	1	
d 40 x 3,5	544352	40 x R 1 ¼	1	
d 50 x 4,0	544362	50 x R 1 ½	1	
d 63 x 4,5	544371	63 x R 2	1	

Tools for press-fit connections (rental basis)



a



b



c



d



e

These items will only be available on a rental basis and have to be sent back after the successful installation. The tools **can't be purchased**.

Notes:

- d 16 - d 40 mm H-press contour have to be used
- d 50 - d 63 mm TH-press contour have to be used

Pipe dimension	Ref.No.	Figure	d	Type	PU1	Order qty (unit)
d 16 - 26	548922	a	16/20/26	Chamfering and calibration tool with handle	1	
d 32	548959	b	32	Chamfering and calibration tool without handle	1	
d 40	548960	b	40	Chamfering and calibration tool without handle	1	
d 50 - 63	548961	c	50/63	Chamfering and calibration tool with handle	1	
d 16 - 32	548632	d	16 - 32	Mini-batter-presser MAP2L	1	
d 16	548811	e	16	Pressing jaws MAP2L	1	
d 20	548821	e	20	Pressing jaws MAP2L	1	
d 26	548831	e	26	Pressing jaws MAP2L	1	
d 32	548841	e	32	Pressing jaws MAP2L	1	
d 40	548751	e	40	Pressing jaws E/A	1	
d 50	548762	e	50	Pressing jaws E/A	1	
d 63	548771	e	63	Pressing jaws E/A	1	

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Toilet flushing cisterns

For front operation – date of production before 12/2007, for large toilet operation panel:

Model F 100, F 101, F 104	26
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Modernisation set with large toilet operation panel model F 102 white-alpine	28
Retrofit set for operation panel model F102, without operation panel	29
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For front operation – date of production since 09/2007, for large toilet operation panel:

Model F 102, F 106, F 500, F 502	32
 Interior	33
Flush pipe bend – Repair kit	34
Model F 102 – large toilet operation panels for front-operation, two-button version	35
Model F 500 – large toilet operation panels for front operation, two button version – stainless steel	35
Accessories for model F 102, F 106, F 500, F 502	36
Additional spare parts	36

For front operation, small toilet operation panel:

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Electrical and pneumatic toilet operation panels for front operation

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Content Spare parts Pre- and In-Wall Installation

Urinal elements

Spare part lists urinal elements 1996 – 07/2004;

lower valve part made of plastic: FRIABLOC®/FRIASET/WIMO /FRIAPLAN®



Urinal support plates: for manual actuation, IR actuation battery 6V and 230V	50
Water supply and outlet complete	51
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Exchange set for manual actuation	55
Exchange set for IR actuation, battery 6V	55
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Spare part lists urinal elements date of production 08/2004 – 12/2009;

lower valve part made of metal: FRIABLOC®/FRIASET/WIMO /FRIAPLAN®



Urinal support plates: for manual actuation, IR actuation battery 6V and 230V	56
Water supply and outlet complete	57
Urinal operation panel for manual actuation Ref.No. 33 50 xx	58
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Spare part lists urinal elements date of production since 08/2009

for cartridge valve technology: FRIASET



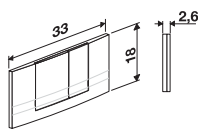
Urinal support plates: for manual actuation, IR actuation battery 6V and 230V, relative conductivity 6V and 230 V	61
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Overview operation panels

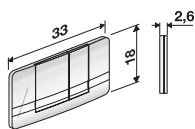
Product overview and measures

Large toilet operation panels for front operation

[cm]

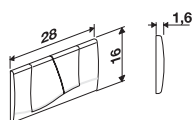


F 102

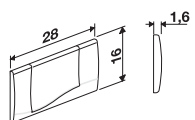


F 500

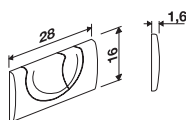
Small toilet operation panels for front operation



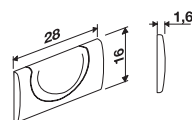
F 300



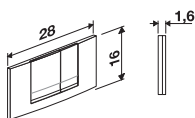
F 301



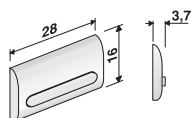
F 302



F 303

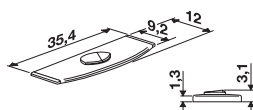


F 304



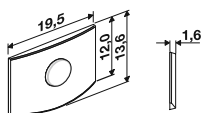
F 401

Toilet operation panels for top operation

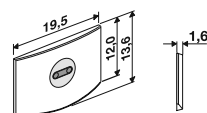


F 200

Urinal operation panel for manual actuation, IR actuation (6V or 230V)



Ref.No. 33 61 xx
Manual actuation



Ref.No. 33 71 xx
IR actuation 6 V or 230 V

Overview operation panels

Special colours for toilet and urinal operation panels

Special colours price range I

Ägäis	Indisch elfenbein	Popgrün RAL 6024
Aloa	Jasmin	Poplila RAL 4006
Alpinweiß	Key-west	Poprot RAL 3020
Amethyst	Lilac	Rot RAL 3003
Anemone	Lichtgrau (Hewi 97)	Rubinrot (Hewi 30)
Bahamabeige	Magnolia	Schwarz RAL 9005 / Schwarz-matt
Bermudablau	Maldiv	Seidenglanz verchromt
Calypso	Manhattan	Sorrentoblau
Classic-weiß	Melba	Star-white
Ebony	Mento	Stella
Edelweiß	Mocca	Sunset
Flash-Violett	Moosgrün	Türkis-royal
Forstgrün (Hewi 70)	Nacht-blau RAL 5022	Vanille-matt
Goldgelb RAL 1004	Natura	Weiß RAL 9010
Verkehrsgelb RAL 1023	Oasis	Whisper-blau
Ginstergelb RAL 1032	Pearl	Whisper-rosa
Green (Hans- Grohe)	Pergamon	Ultramarinblau RAL 5002
Greenwich	Popgelb RAL 1018	

Spare part lists concealed toilet flushing cisterns: FRIABLOC®/WIMO/FRIAPLAN®

Universal flushing cisterns for front operation – date of production before 12/2007,
for large toilet operation panel: Model F 100, F 101, F 104

Model F 100
Ref.No. 3310xx



Ref.No. 331020



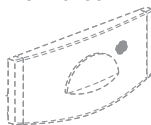
Model F 101
Ref.No. 331701



Ref.No. 331720

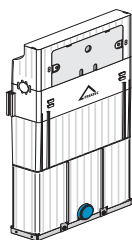


Model F 104
Ref.No. 337774

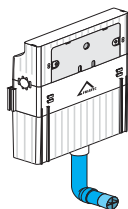


Model F 100 (ff.) is no longer
available, see Modernisation set
(Ref.No. 330801)

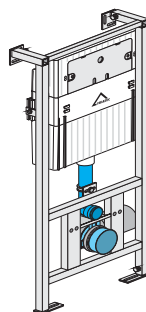
xx = Colourcode



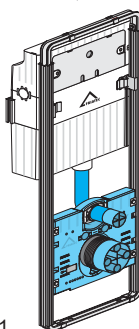
Ref.No. 321000 /
95.A06.00..0001
Ref.No. 324501



Ref.No. 352005 /
90.A17.00..0001



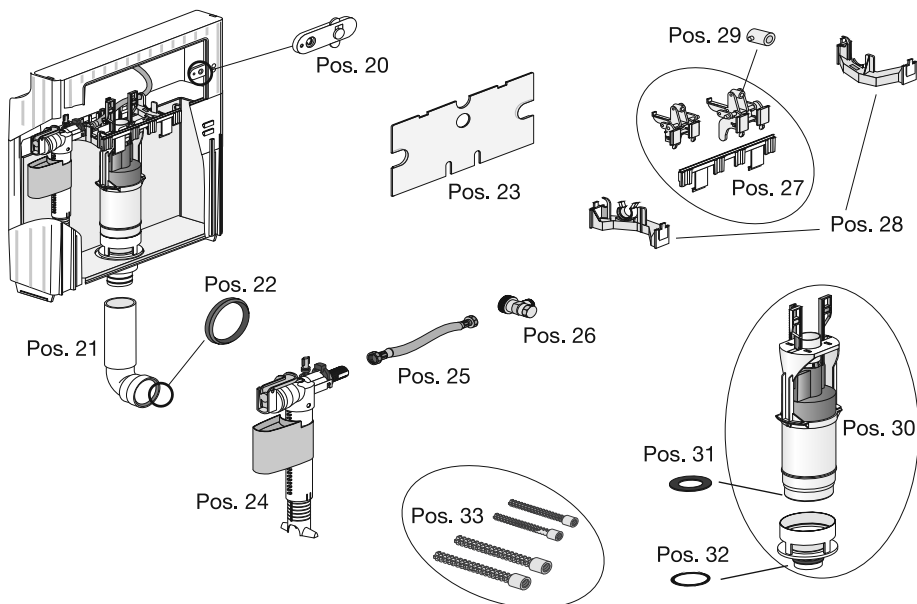
Ref.No. 319998 /
90.A33.00..0001
Ref.No. 323700
Ref.No. 323701 /
95.A07.00..0001
Ref.No. 328700
Ref.No. 328810
Ref.No. 471036.00 /
PB.A47.10.3600



Ref.No. 352110
Ref.No. 352120
Ref.No. 354005
Ref.No. 354020
Ref.No. 354021
Ref.No. 042721 /
90.A19.00..0001

Spare part lists concealed toilet flushing cisterns: FRIABLOC®/WIMO/FRIAPLAN®

Interior – Universal flushing cisterns date of production before 12/2007

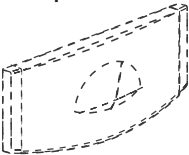


Ref.No.	Line	Type	PU1
328000	20	Fixing flaps for control panel (1 set = 2 pieces)	1
	21	Repair kit for flush pipe bend see following page	
327500	22	Lip sealing for flush pipe d 45	1
328100	23	Cover panel for inspection opening	1
320400	24	Hydraulic inlet valve	1
337764	25	Reinforced tube, 400mm , 3/8 x 3/8 union nut, bis Bj. 05/2004	1
321600	25	Reinforced tube, 300 mm , 3/8 x 3/8 union nut, ab Bj. 05/2004	1
334111	25	Reinforced tube, 300 mm with knurled nut, ab Bj. 04/2009	1
328400	26	Angle valve short 1/2, front operated (R 1/2)	1
328200	27	Actuation and fixing bridge for toilet outlet valve (front operated)	1
328300	28	Stiffening bridge with bracket for inlet valve for front operation (1 set = 2 pieces)	1
334004	29	Threaded bush for front operation or top operation (1 set = 2 pieces)	1
321200	30	Outlet valve with valve seat incl. bottom sealing and outlet gasket	1
320800	31	Spare outlet gasket (da = 61 mm, di = 30 mm, t = 3 mm)	1
327700	32	Rollring for bottom valve (45x4 mm)	1
339200	33	Extension set (8 - 18 cm) for model F 100, F 101, F 104	1

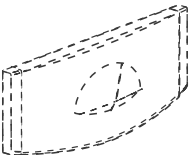
Spare part lists concealed toilet flushing cisterns: FRIABLOC®/WIMO/FRIAPLAN®

FRIATEC concealed flushing cisterns with operation unit model F 100 will be retro-fit with the modernisation set (Ref.No. 330801) into operation unit F 102

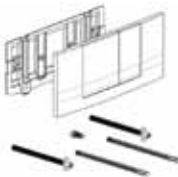
Model F 100
Ref.No. 331001
alpine white



Model F 100
Ref.No. 3310xx



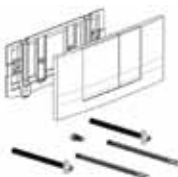
Modernisation set
Ref.No. 330801



Retrofit set
Ref.No. 321205



Model F 102
Ref.No. 3307xx



Modernisation sets for large toilet operation panel model F 102 alpine-white for front-operation, two button version



- consisting of:
- operation panel F 102 colour alpin-white with two buttons for dual-volume flushing
 - installation frame, including anti-removal lock
 - cover panel for inspection opening with bell crank and threaded bush
 - outlet valve with valve seat
 - fixing material

Note:
FRIATEC concealed flushing cisterns with operation unit model F 100 could be retrofited to operation unit model F 102

Ref.No.	Type	PU1	Order qty (set)
330801	Toilet modernisation set with operation panel F 102, alpine-white	1	

Spare part lists concealed toilet flushing cisterns: FRIABLOC®/WIMO/FRIAPLAN®

Toilet retrofit set for operation panel model F 102, F 500, without operation panel



consisting of:

- cover panel for inspection opening
- outlet valve with valve seat

Note:

The operation panel model F 102 (Ref.No. 3307xx) or F 500 (Ref.No. 330720) need to be ordered separately.

Ref.No.	Type	PU1	Order qty (set)
321205	Toilet retrofit set without panel	1	

Model F 102 – large toilet operation panels for front-operation, two-button version



consisting of:

- operation panel with two buttons for dual-volume flushing
- installation frame, including anti-removal lock
- fixing material

Note:

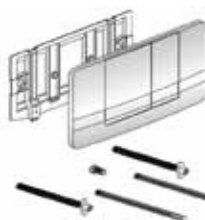
Toilet operation panel suitable for FRIABLOC flushing cisterns Ref.No. 300103, Ref.No. 300104, Ref.No. 321003, Ref.No. 319983 and Ref.No. 302003 as well as for toilet retrofit set Ref.No. 321205

Note:

For special colours of each price-range please see list of colours for operation panels

Ref.No.	Type	PU1	Order qty (set)
330721	21-silk gloss, chromium-plated	1	
330113	Special colours, price-range I	1	

Model F 500 – large toilet operation panels for front operation, two button version – stainless steel



consisting of:

- operation panel with two buttons for dual-volume flushing
- installation frame, including anti-removal lock
- fixing material

Note:

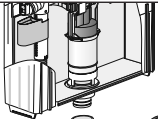
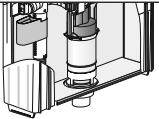
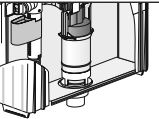
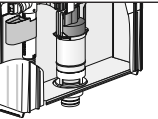
Toilet operation panel suitable for FRIABLOC flushing cisterns Ref.No. 300103, Ref.No. 300104, Ref.No. 321003, Ref.No. 319983, Ref.No. 302003 and toilet retrofit set Ref.No. 321205

Ref.No.	Type	PU1	Order qty (set)
330720	Stainless steel, brushed	1	

Further information about the electrical and pneumatic toilet operation see page 38

Spare part lists concealed toilet flushing cisterns: FRIABLOC®/FRIAFIX®/FRIASET/ WIMO/FRIAPLAN®

Flush pipe bend – Repair kit

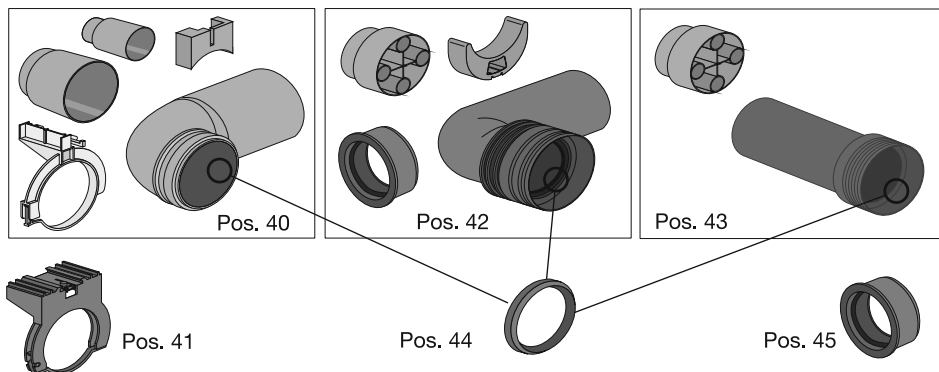
Flush pipe bend	Repair kit flush pipe bend 06/1995 - 06/1998 Pos. 23	Repair kit flush pipe bend 06/1998 - 10/2000 Pos. 24	Repair kit flush pipe bend up to 11/2000 Pos. 25
 Pos. 21 Pos. 22	 1. Transition piece d 52/d 50 2. Transition seal 3. Transition piece d 52/d 50 4. Transition seal 5. Short flush pipe bend	 1. Pipe d 52, 13 cm 2. Transition piece d 52/d 50 3. Transition seal 4. Short flush pipe bend	 1. Long couplers d 52 (shortend) 2. Transition piece d 52/d 50 3. Transition seal 4. Short flush pipe bend

Please note the assembly instructions

Ref.No.	Line	Type	PU1	Order qty (unit)
334046	21	Flush pipe bend since 11/2000 (= blue)	1	
334107	21	Flush pipe bend since 06/2007 (= transparent) - not for FRIAPLAN	1	
327500	22	Lip sealing for flush pipe d 45	1	
339010	23	Repair kit flush pipe bend 06/1995 until 06/1998	1	
339011	24	Repair kit flush pipe bend 06/1998 until 10/2000	1	
339012	25	Repair kit flush pipe bend from 11/2000	1	

Spare part lists concealed toilet flushing cisterns: FRIABLOC®/WIMO/FRIAPLAN®

Additional spare parts – Universal flushing cisterns date of production before 12/2007



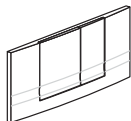
Ref.No.	Line	Type	PU1
334096 ¹⁾	40	Toilet outlet bend d 90/110 with protective plug - not for FRIAPLAN	1
334106 ¹⁾	41	Toilet outlet bend clip with fastening clip (= black) since 08/2007 - not for FRIAPLAN	1
334039 ¹⁾	42	Toilet outlet bend - only for FRIAPLAN	1
334040 ¹⁾	43	Toilet connection - only for FRIAPLAN	1
334017	44	Lip sealing d 90 for outlet bend and connection bend	1

¹⁾ to be discontinued

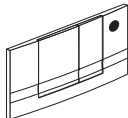
Spare part lists concealed toilet flushing cisterns: FRIABLOC®/FRIASET/WIMO

Universal flushing cisterns for front operation – date of production since 09/2007,
for large toilet operation panel: Model F 102, F 106, F 500, F 502

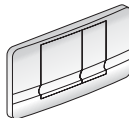
Model F 102
Ref.No. 3307xx



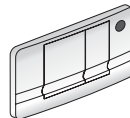
Model F 106
Ref.No. 337780



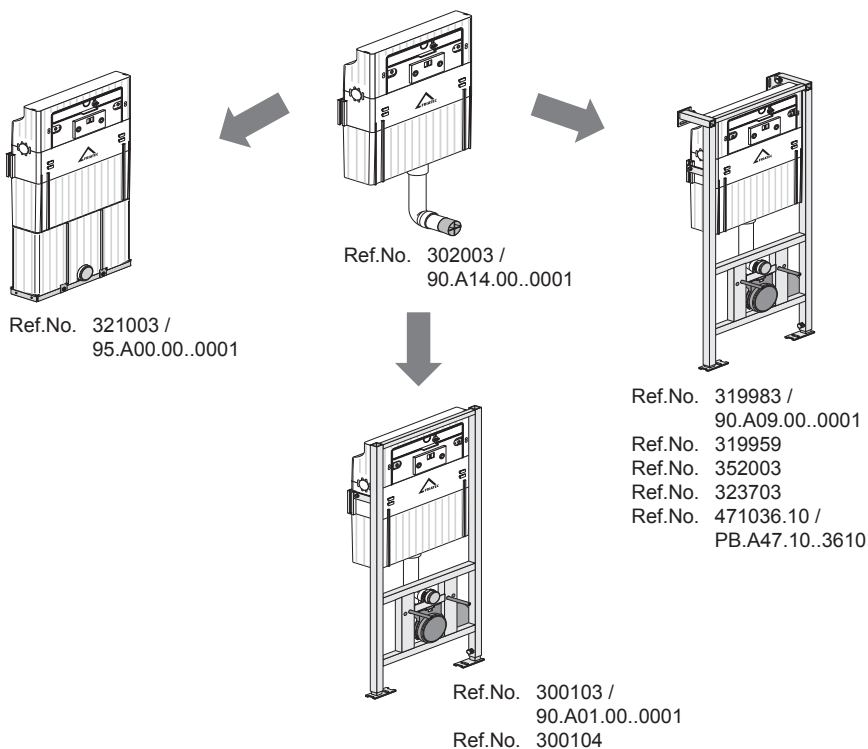
Model F 500
Ref.No. 330720



Model F 502
Ref.No. 337781

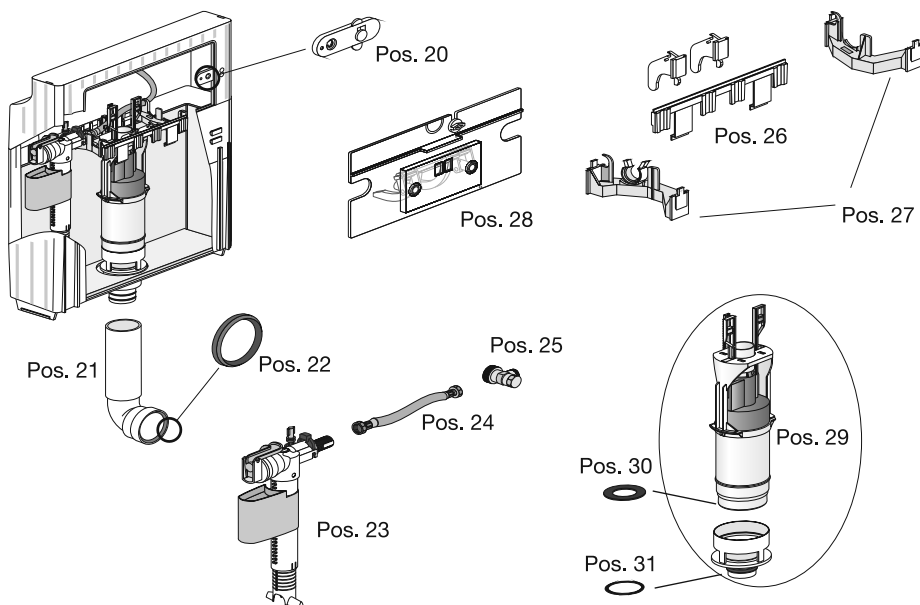


xx = Colourcode



Spare part lists concealed toilet flushing cisterns: FRIABLOC®/FRIASET/WIMO

Interior – Universal flushing cisterns, date of production since 09/2007



Ref.No.	Line	Type	PU1
328000	20	Fixing flaps for control panel (1 set = 2 pieces)	1
	21	Repair kit for flush pipe bend see following page	
327500	22	Lip sealing for flush pipe d 45	1
320400	23	Hydraulic inlet valve	1
321600	24	Reinforced tube, 300 mm , 3/8 x 3/8 union nut, ab Bj. 05/2004	1
334111	24	Reinforced tube, 300 mm with knurled nut, ab Bj. 04/2009	1
328400	25	Angle valve short 1/2, front operated (R 1/2)	1
328201	26	Fixing rail with holding down clamp	1
328300	27	Stiffening bridge with bracket for inlet valve for front operation (1 set = 2 pieces)	1
328101	28	Cover panel for inspection opening with bell crank and threaded bush	1
321200	29	Outlet valve with valve seat incl. bottom sealing and outlet gasket	1
320800	30	Spare outlet gasket (da = 61 mm, di = 30 mm, t = 3 mm)	1
327700	31	Rollring for bottom valve (45x4 mm)	1

Spare part lists concealed toilet flushing cisterns: FRIABLOC®/FRIAFIX®/FRIASET/
WIMO/FRIAPLAN®

Flush pipe bend – Repair kit

Flush pipe bend

Pos. 21

Pos. 22

Repair kit
flush pipe bend
up to 11/2000
Pos. 23

1. Long couplers d 52 (shortend)

2. Transition piece d 52/d 50

3. Transition seal

4. Short flush pipe bend

Please note the assembly instructions

Ref.No.	Line	Type	PU1	Order qty (unit)
334046	21	Flush pipe bend since 11/2000 (= blue)	1	
334107	21	Flush pipe bend since 06/2007 (= transparent) - not for FRIAPLAN	1	
327500	22	Lip sealing for flush pipe d 45	1	
339012	23	Repair kit flush pipe bend from 11/2000	1	

Spare part lists concealed toilet flushing cisterns: FRIABLOC®/FRIASET/WIMO

Model F 102 – large toilet operation panels for front-operation, two-button version



consisting of:

- operation panel with two buttons for dual-volume flushing
- installation frame, including anti-removal lock
- fixing material

Note:

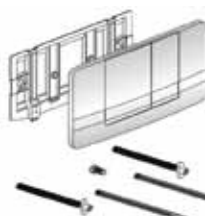
Toilet operation panel suitable for FRIABLOC flushing cisterns Ref.No. 300103, Ref.No. 300104, Ref.No. 321003, Ref.No. 319983 and Ref.No. 302003 as well as for toilet retrofit set Ref.No. 321205

Note:

For special colours of each price-range please see list of colours for operation panels

Ref.No.	Type	PU1	Order qty (set)
330701	01-alpine white, glossy	1	
330721	21-silk gloss, chromium-plated	1	
330113	Special colours, price-range I	1	
330710	Panel alpine white (without installation frame and fixing material)	1	

Model F 500 – large toilet operation panels for front operation, two button version – stainless steel



consisting of:

- operation panel with two buttons for dual-volume flushing
- installation frame, including anti-removal lock
- fixing material

Note:

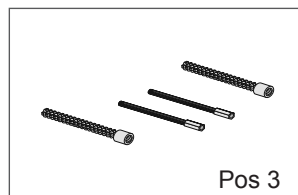
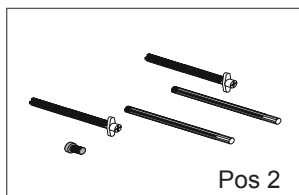
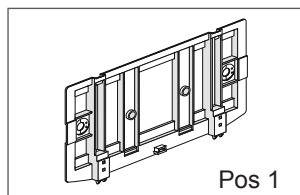
Toilet operation panel suitable for FRIABLOC flushing cisterns Ref.No. 300103, Ref.No. 300104, Ref.No. 321003, Ref.No. 319983, Ref.No. 302003 and toilet retrofit set Ref.No. 321205

Ref.No.	Type	PU1	Order qty (set)
330720	Stainless steel, brushed	1	

Further information about the electrical and pneumatic toilet operation see page 38

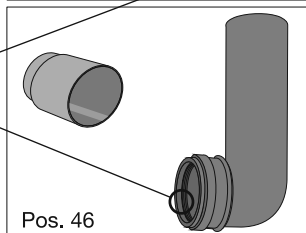
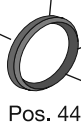
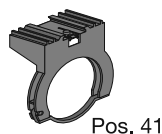
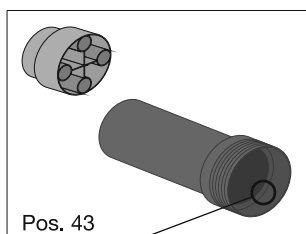
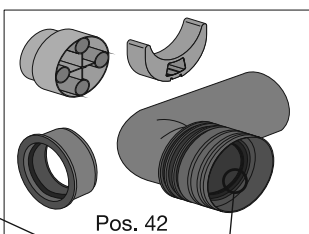
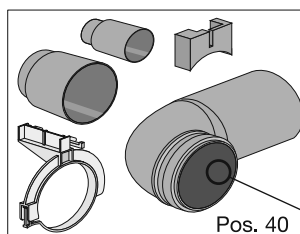
Spare part lists concealed toilet flushing cisterns: FRIABLOC®/FRIASET/WIMO

Accessories for model F 102, F 106, F 500, F 502



Ref.No.	Line	Type	PU1	Order qty (unit)
334102	1	Installation frame complete, 2-button version (for dual-volume)	1	
334104	2	Kit for operation and fixing bolts (2 pieces of each) and self-tapping screws (1 piece)	1	
339203	3	Extension set (8 - 18 cm) for model F 102, F 106, F 500, F 502	1	

Additional spare parts – Universal flushing cisterns, date of production since 09/2007



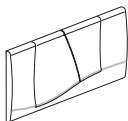
Ref.No.	Line	Type	PU1
334096 ¹⁾	40	Toilet outlet bend d 90/110 with protective plug - not for FRIAPLAN	1
334106 ¹⁾	41	Toilet outlet bend clip with fastening clip (= black) since 08/2007 - not for FRIAPLAN	1
334039 ¹⁾	42	Toilet outlet bend - only for FRIAPLAN	1
334040 ¹⁾	43	Toilet connection - only for FRIAPLAN	1
334017	44	Lip sealing d 90 for outlet bend and connection bend	1

¹⁾ to be discontinued

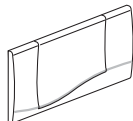
Spare part lists concealed toilet flushing cisterns: FRIAFIX®/FRIASET/WIMO/FRIA-PLAN®

Universal flushing cisterns for front operation, small toilet operation panel: Model F 300, F 301, F 302, F 303, F 400, F 401, F 402

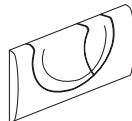
Model F 300
Ref.No. 3324xx



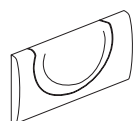
Model F 301
Ref.No. 3319xx



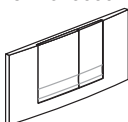
Model F 302
Ref.No. 3326xx



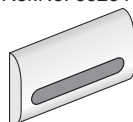
Model F 303
Ref.No. 3329xx



Model F 304
Ref.No. 3339xx



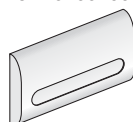
Model F 400
Ref.No. 332540



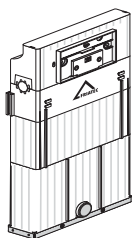
Model F 401
Ref.No. 332510



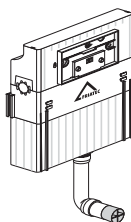
Model F 402
Ref.No. 332550



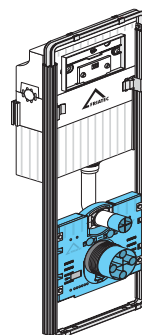
xx = Colourcode



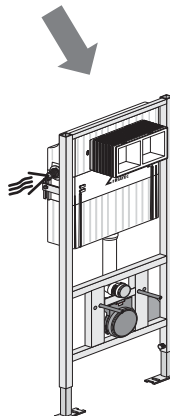
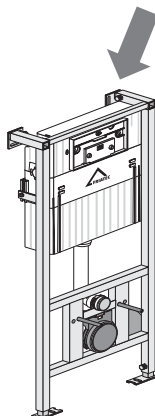
Ref.No. 321001 /
95.A01.00..0001
Ref.No. 321002 /
95.A02.00..0001



Ref.No. 302006 /
90.A15.00..0001



Ref.No. 319984 /
90.A27.00..0001
Ref.No. 319985 /
90.A10.00..0001
Ref.No. 319964 /
90.A24.00..0001
Ref.No. 319965 /
90.A25.00..0001
Ref.No. 471041.00 /
PB.A47.10..4100
Ref.No. 471041.10
Ref.No. 471041.20 /
PB.A47.10..4120
Ref.No. 471042.00 /
PB.A47.10..4200
Ref.No. 471042.20 /
PB.A47.10..4220

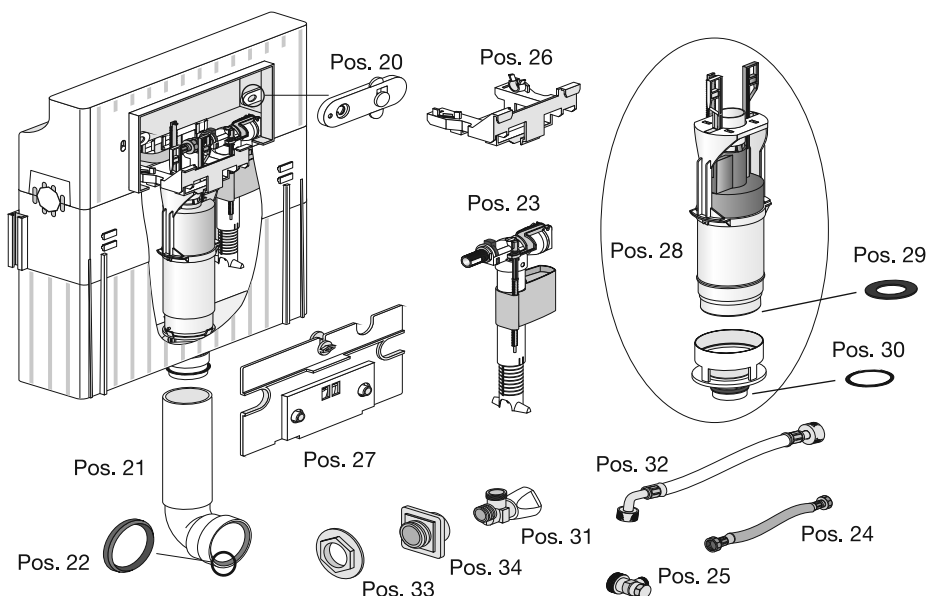


Ref.No. 352006
Ref.No. 352140
Ref.No. 354010
Ref.No. 354022
Ref.No. 354023
Ref.No. 042725 /
90.A20.00..0001

Ref.No. 300100 /
90.A00.00..0001
Ref.No. 300105
Ref.No. 300107

Spare part lists concealed toilet flushing cisterns: FRIAFIX®/FRIASET/WIMO/FRIA-PLAN®

Interior – Universal flushing cisterns Ref.No. 302006



Ref.No.	Line	Type	PU1
334074 ¹⁾	20	Fixing flaps for control panel (1 set = 2 pieces)	1
	21	Repair kit for flush pipe bend see following page	
327500	22	Lip sealing for flush pipe d 45	1
320400	23	Hydraulic inlet valve	1
321600	24	Reinforced tube, 300 mm , 3/8 x 3/8 union nut, ab Bj. 05/2004	1
334111	24	Reinforced tube, 300 mm with knurled nut, ab Bj. 04/2009	1
328400	25	Angle valve short ½, front operated (R ½)	1
334084	26	Mounting bridge	1
334082	27	Cover panel for inspection opening with bell crank and threaded bushes	1
321200	28	Outlet valve with valve seat incl. bottom sealing and outlet gasket	1
320800	29	Spare outlet gasket (da = 61 mm, di = 30 mm, t = 3 mm)	1
327700	30	Rollring for bottom valve (45x4 mm)	1

The following positions are only for toilet flushing cisterns with pre-assembled water connection (Ref.No. 321002, 319964, 319965, 300100)

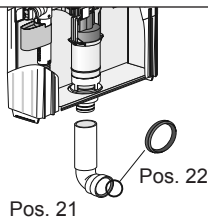
Ref.No.	Line	Type	PU1
334097 ¹⁾	31	Angle valve short with handwheel for front operation ½	1
334098	32	Reinforced tube for front operated toilet modules with knurled nut	1

¹⁾ to be discontinued

Spare part lists concealed toilet flushing cisterns: FRIABLOC®/FRIAFIX®/FRIASET/ WIMO/FRIAPLAN®

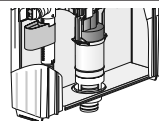
Flush pipe bend – Repair kit

Flush pipe bend



Repair kit flush pipe bend up to 11/2000

Pos. 23



1. Long couplers d 52 (shortend)



2. Transition piece d 52/d 50



3. Transition seal



4. Short flush pipe bend

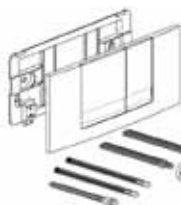


Please note the assembly instructions

Ref.No.	Line	Type	PU1	Order qty (unit)
334046	21	Flush pipe bend since 11/2000 (= blue)	1	
334107	21	Flush pipe bend since 06/2007 (= transparent) - not for FRIAPLAN	1	
327500	22	Lip sealing for flush pipe d 45	1	
339012	23	Repair kit flush pipe bend from 11/2000	1	

Spare part lists concealed toilet flushing cisterns: FRIAFIX®/FRIASET/WIMO/FRIA-PLAN®

Model F 304 – small toilet operation panels for front-operation, two-button version



consisting of:

- operation panel with two buttons for dual-volume flushing
- installation frame
- fixing material

Note:

For special colours of each price-range please see list of colours for operation panels

Ref.No.	Type	PU1	Order qty (set)
333901	01-alpine white, glossy	1	
333921	21-silk gloss, chromium-plated	1	
330122	Special colours, price-range I	1	

Model F 300 – small toilet operation panels for front-operation, two-button version



consisting of:

- operation panel with two buttons for dual-volume flushing
- installation frame
- fixing material

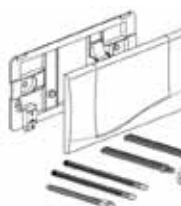
Note:

For special colours of each price-range please see list of colours for operation panels

Ref.No.	Type	PU1	Order qty (set)
332401	01-alpine white, glossy	1	
332421 ¹⁾	21-silk gloss, chromium-plated	1	
330107	Special colours, price-range I	1	

¹⁾ to be discontinued

Model F 301 – small toilet operation panels for front-operation, single-button version



consisting of:

- operation panel with single button for start/stop flushing
- installation frame
- fixing material

Note:

For special colours of each price-range please see list of colours for operation panels

Ref.No.	Type	PU1	Order qty (set)
331901	01-alpine white, glossy	1	
331921 ¹⁾	21-silk gloss, chromium-plated	1	
330110 ¹⁾	Special colours, price-range I	1	

¹⁾ to be discontinued

Spare part lists concealed toilet flushing cisterns: FRIAFIX®/FRIASET/WIMO/FRIA-PLAN®

Model F 302 – small toilet operation panels for front-operation, two-button version



consisting of:

- operation panel with two buttons for dual-volume flushing
- installation frame
- fixing material

Note:

For special colours of each price-range please see list of colours for operation panels

Ref.No.	Type	PU1	Order qty (set)
332601	01-alpine white, glossy	1	
332621 ¹⁾	21-silk gloss, chromium-plated	1	
330116	Special colours, price-range I	1	

¹⁾ to be discontinued

Model F 303 – small toilet operation panels for front-operation, single-button version



consisting of:

- operation panel with single button for start/stop flushing
- installation frame
- fixing material

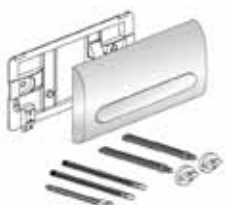
Note:

For special colours of each price-range please see list of colours for operation panels

Ref.No.	Type	PU1	Order qty (set)
332901 ¹⁾	01-alpine white, glossy	1	
332921 ¹⁾	21-silk gloss, chromium-plated	1	
330119	Special colours, price-range I	1	

¹⁾ to be discontinued

Model F 401 – small toilet operation panels for front-operation, single-button version – stainless steel



consisting of:

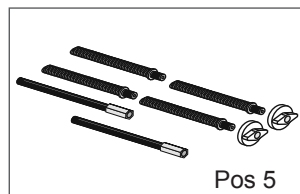
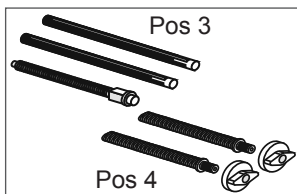
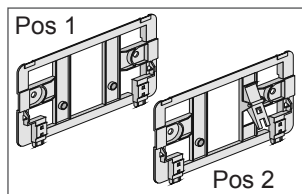
- operation panel with single button for spring-mounted single volume flushing
- installation frame, including anti-removal lock
- fixing material

Ref.No.	Type	PU1	Order qty (set)
332510	Stainless steel, brushed	1	

Further information about the electrical and pneumatic toilet operation see page 38

Spare part lists concealed toilet flushing cisterns: FRIAFIX®/FRIASET/WIMO/FRIA-PLAN®

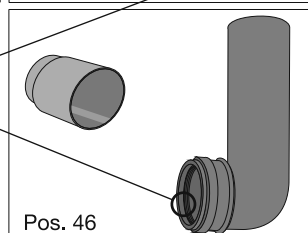
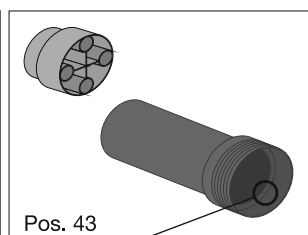
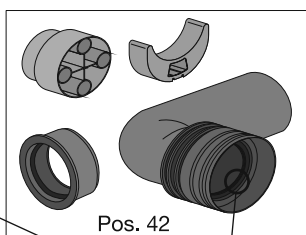
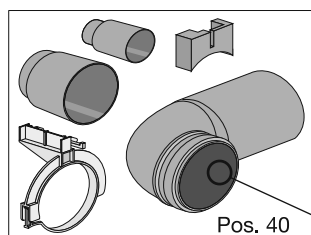
Accessories for model F 300, F 301, F 302, F 303, F 304, F 400, F 401, F 402



Ref.No.	Line	Type	PU1	Order qty (unit)
334080 ¹⁾	1	Installation frame FRIAFIX complete, two-button version (dual-volume flushing technology)	1	
334081 ¹⁾	2	Installation frame FRIAFIX complete, single-button version (start/stop flushing technology)	1	
334083	3	Operation bolt set (dual-volume flushing technology/ start-stop flushing technology)	1	
334073	4	Set of quick release bolts with nuts (1 set = 2 pieces)	1	
339210	5	Extension set (9 - 22 cm) for model F 300, F 301, F 302, F 303, F 304, F 400, F 401, F 402	1	

¹⁾ to be discontinued

Additional spare parts – Universal flushing cisterns small toilet operation panel



Ref.No.	Line	Type	PU1
334096 ¹⁾	40	Toilet outlet bend d 90/110 with protective plug - not for FRIAPLAN	1
334106 ¹⁾	41	Toilet outlet bend clip with fastening clip (= black) since 08/2007 - not for FRIAPLAN	1
334039 ¹⁾	42	Toilet outlet bend - only for FRIAPLAN	1
334040 ¹⁾	43	Toilet connection - only for FRIAPLAN	1
334017	44	Lip sealing d 90 for outlet bend and connection bend	1

¹⁾ to be discontinued

Electrical and pneumatic toilet operation panels for front operation

Pneumatic actuation kits for barriere-free areas for front operation, large toilet operation panel: model F 102, F 500



consisting of:

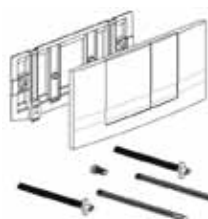
- covering panel for inspection opening with pre-assembled pneumatic-actuation
- air tube
- blank tube
- concealed wall-mounted push button, white
- concealed socket

Ref.No.	Type	PU1	Order qty (unit)
337741	Pneumatic kit	1	



for installation into all FRIATEC universal flushing cisterns with internal insulation against condensation, readjustable to 6-9 l at any time.

Ref.No.	Type	PU1	Order qty (unit)
321200	Toilet outlet valve with bottom sealing (with valve seat)	1	



consisting of:

- operation panel with two buttons for dual-volume flushing
- installation frame, including anti-removal lock
- fixing material

Note:

Toilet operation panel suitable for FRIABLOC flushing cisterns Ref.No. 300103, Ref.No. 300104, Ref.No. 321003, Ref.No. 319983 and Ref.No. 302003 as well as for toilet retrofit set Ref.No. 321205

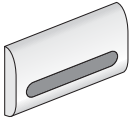
Note:

For special colours of each price-range please see list of colours for operation panels

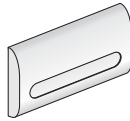
Ref.No.	Type	PU1	Order qty (set)
330701	01-alpine white, glossy	1	
330720	Stainless steel, brushed	1	
330721	21-silk gloss, chromium-plated	1	
330113	Special colours, price-range I	1	

Electrical and pneumatic toilet operation panels for front operation**for small toilet operation panels**

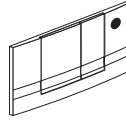
Model F 400
Ref.No. 332540



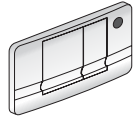
Model F 402
Ref.No. 332550

**for large toilet operation panels**

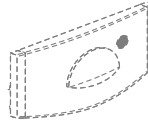
Model F 106
Ref.No. 337780



Model F 502
Ref.No. 337781



Model F 104
Ref.No. 337774



**Spare part lists concealed toilet flushing cisterns: FRIABLOC®/FRIASET/WIMO/
FRIAPLAN®**

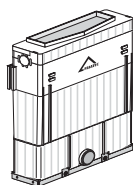
Universal flushing cisterns for top operation, large toilet operation panel: Model F 200, F 201

Model F 200
Ref.No. 3320xx

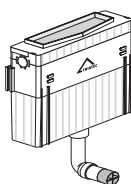
Model F 201
Ref.No. 332701



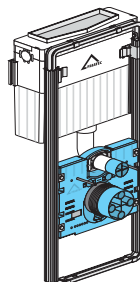
xx = Colourcode



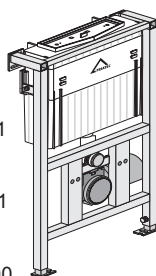
Ref.No. 322000 (850 mm) /
95.A03.00..0001
Ref.No. 322500 (1000 mm)
Ref.No. 324502



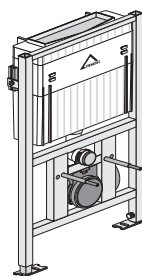
Ref.No. 302010 /
90.A16.00..0001



Ref.No. 352010
Ref.No. 352111
Ref.No. 354006
Ref.No. 042720 /
90.A18.00..0001



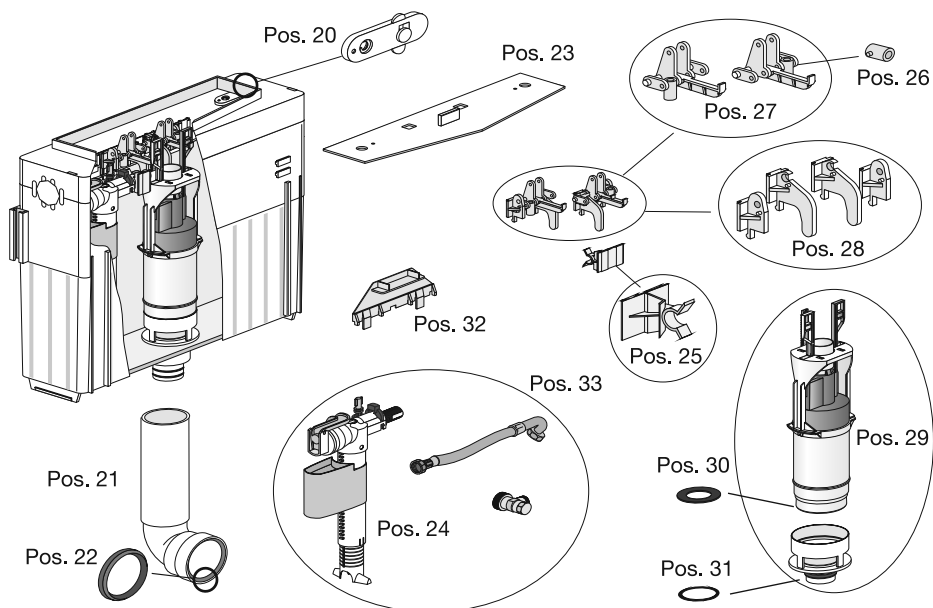
Ref.No. 319997 /
90.A11.00..0001
Ref.No. 322900
Ref.No. 323601 /
95.A08.00..0001
Ref.No. 328800
Ref.No. 471037.00 /
PB.A47.10..3700



Ref.No. 300110 /
90.A02.00..0001

Spare part lists concealed toilet flushing cisterns: FRIABLOC®/FRIASET/WIMO/ FRIAPLAN®

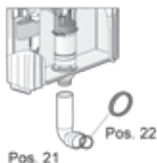
Interior – Universal flushing cisterns, top-operated



Ref.No.	Line	Type	PU1
328000	20	Fixing flaps for control panel (1 set = 2 pieces)	1
327500	21	Repair kit for flush pipe bend see following page	1
334110	22	Lip sealing for flush pipe d 45	1
320400	23	Cap for inspection opening protector	1
327000	24	Hydraulic inlet valve	1
334004	25	Bracket for inlet valve for top operated toilet modules	1
322200	26	Threaded bush for front operation or top operation (1 set = 2 pieces)	1
322300	27	Operation for toilet outlet valve with threaded bush - top operated (1 set = 2 pieces)	1
321200	28	Outlet valve fixing kit, top operated (1 set = 2 pieces)	1
320800	29	Outlet valve with valve seat incl. bottom sealing and outlet gasket	1
327700	30	Spare outlet gasket (da = 61 mm, di = 30 mm, t = 3 mm)	1
334108	31	Rolling for bottom valve (45x4 mm)	1
321505	32	Retention strip	1
	33	Replacement: reinforced tube with knurled nut including hydraulic inlet valve and angle valve	1

Spare part lists concealed toilet flushing cisterns: FRIABLOC®/FRIAFIX®/FRIASET/ WIMO/FRIAPLAN®

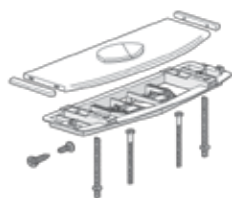
Flush pipe bend


Note:

The flush pipe bend has to be shortened to the exact length.

Ref.No.	Line	Type	PU1	Order qty (unit)
334046	21	Flush pipe bend since 11/2000 (= blue)	1	
334107	21	Flush pipe bend since 06/2007 (= transparent) - not for FRIAPLAN	1	
327500	22	Lip sealing for flush pipe d 45	1	

Model F 200 – large toilet operation panels for top-operation, two-button version



consisting of:

- operation panel with two buttons for spring-mounted dual-volume flushing
- installation frame, including anti-removal lock
- fixing material

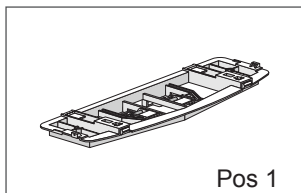
Note:

For special colours for price-range I please see list of colours for operation panels

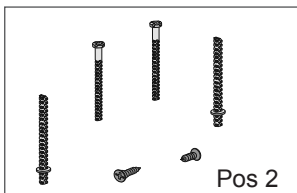
Ref.No.	Type	PU1	Order qty (set)
332001	01-alpine white, glossy	1	
330201	Special colours price-range I	1	

Spare part lists concealed toilet flushing cisterns: FRIABLOC®/FRIASET/WIMO/ FRIAPLAN®

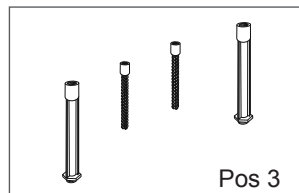
Accessories for model F 200, F 201



Pos 1



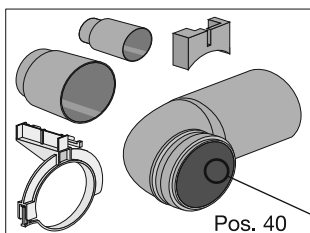
Pos 2



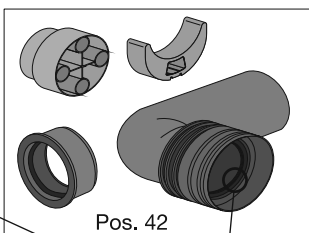
Pos 3

Ref.No.	Line	Type	PU1	Order qty (unit)
334011	1	Frame complete for top operated panel	1	
334006	2	Kit of operation and fixing bolts and self-tapping screws for top operated panel (1 set = 2 pieces)	1	
339100	3	Extension set (5 - 15 cm) for model F 200, F 201	1	

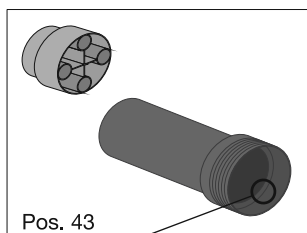
Additional spare parts – Universal flushing cisterns Ref.No. 302010



Pos. 40



Pos. 42



Pos. 43



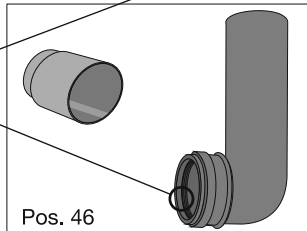
Pos. 41



Pos. 45



Pos. 44



Pos. 46

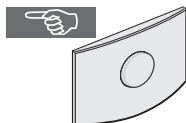
Ref.No.	Line	Type	PU1
334096 ¹⁾	40	Toilet outlet bend d 90/110 with protective plug - not for FRIAPLAN	1
334106 ¹⁾	41	Toilet outlet bend clip with fastening clip (= black) since 08/2007 - not for FRIAPLAN	1
334039 ¹⁾	42	Toilet outlet bend - only for FRIAPLAN	1
334040 ¹⁾	43	Toilet connection - only for FRIAPLAN	1
334017	44	Lip sealing d 90 for outlet bend and connection bend	1

¹⁾ to be discontinued

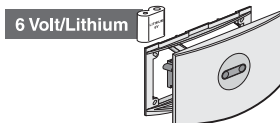
Spare part lists urinal elements 1996 – 07/2004; lower valve part made of plastic:
FRIABLOC®/FRIASET/WIMO /FRIAPLAN®

Urinal support plates – edition 1996 – 07/2004: for manual actuation, IR actuation
battery 6V and 230V

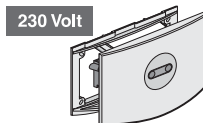
Ref.No. 3360xx



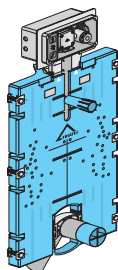
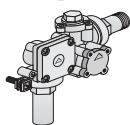
Ref.No. 3365xx



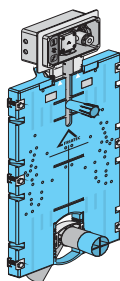
Ref.No. 3370xx



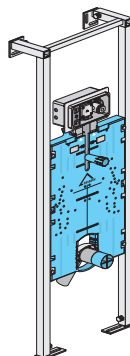
xx = Colourcode



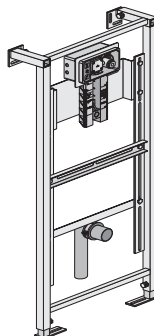
Ref.No. 351025
Ref.No. 325000
Ref.No. 042940



Ref.No. 352113



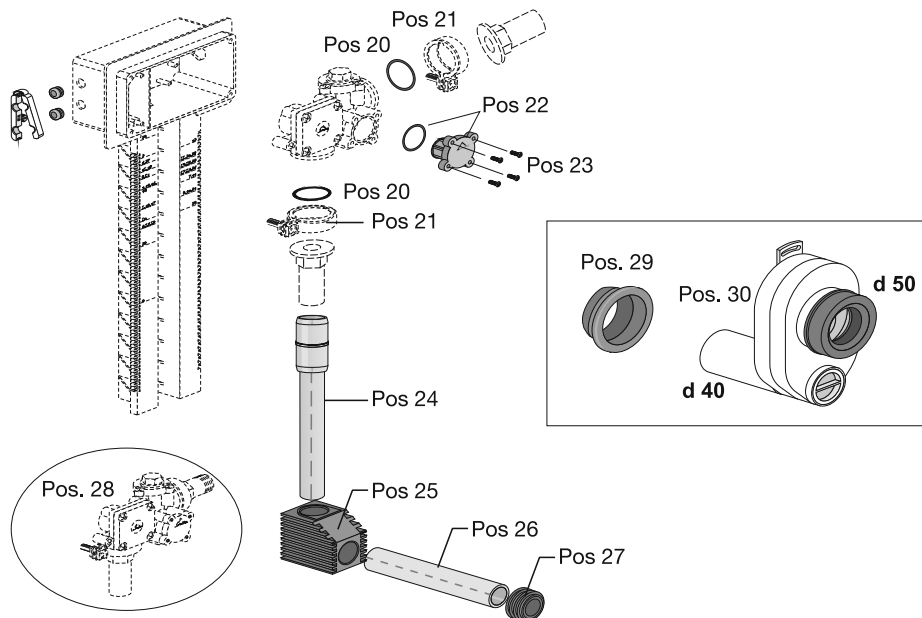
Ref.No. 319996



Ref.No. 319986

Spare part lists urinal elements 1996 – 07/2004; lower valve part made of plastic:
FRIABLOC®/FRIASET/WIMO /FRIAPLAN®

Water supply and outlet complete – edition 1996 – 07/2004

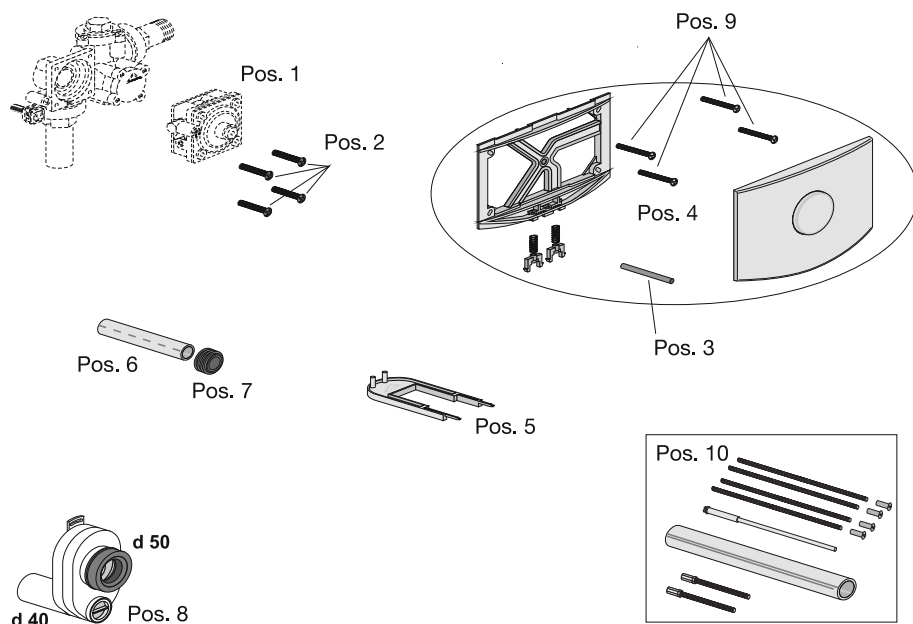


Ref.No.	Line	Type	PU1
326600	20	O-ring 19 x 3 mm (2 pieces will be needed for installation of lower valve unit)	1
325200	21	Profile clamp for old version - no longer available; please see exchange set	
339600 ¹⁾	22	Sieve with sealing	1
334057 ¹⁾	23	Self tapping screws for urinal (1 set = 2 pieces)	1
325400 ¹⁾	24	Urinal flush pipe with socket d 20 mm	1
325500 ¹⁾	25	Urinal flush pipe redirection device d 20 mm	1
325600 ¹⁾	26	Urinal flush pipe d 20 mm	1
325700 ¹⁾	27	Urinal flush pipe connector d 20 mm	1
325100	28	Urinal lower valve unit old version - no longer available; please see exchange set	
909077	29	Rubber nipple d 52/d 40 mm for siphon angle for urinal modules	1
325900	30	Urinal siphon (final assembly kit) d 40 / d 50 mm	1

¹⁾ to be discontinued

Spare part lists urinal elements 1996 – 07/2004; lower valve part made of plastic:
FRIABLOC®/FRIASET/WIMO /FRIAPLAN®

Urinal operation panels for manual actuation Ref.No. 3360xx; edition 1996 – 07/2004

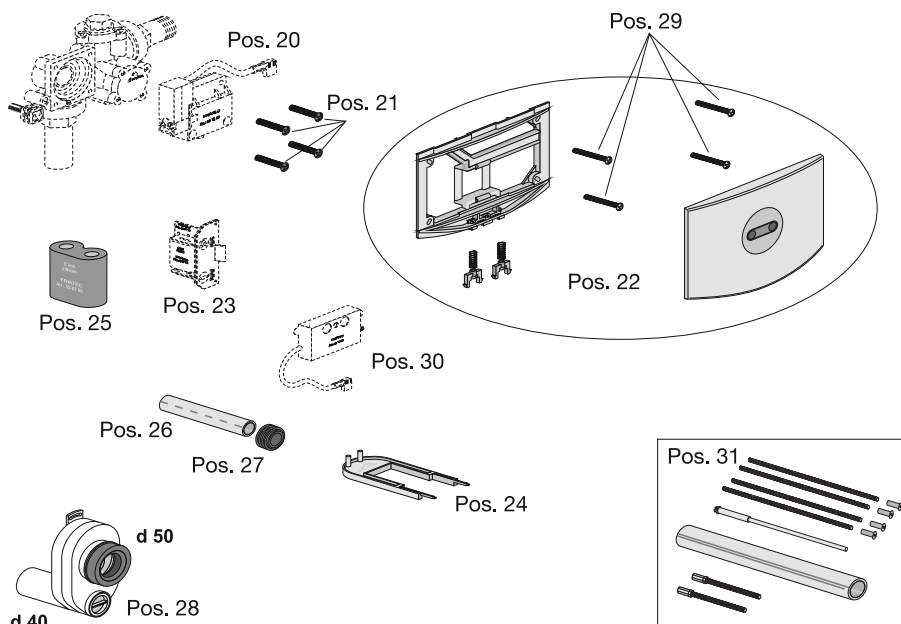


Ref.No.	Line	Type	PU1
336200	1	Urinal upper valve unit for manual actuation old version - no longer available; reparation with exchange set Ref.No. 339660	
334057 ¹⁾	2	Self tapping screws for urinal (1 set = 2 pieces)	1
336400	3	Operation bolts for urinal manual actuation	1
336101	4	Urinal operation panel for manual actuation – 01-alpine white, glossy	1
558007	5	Installation wrench for operation panel	1
325600 ¹⁾	6	Urinal flush pipe d 20 mm	1
325700 ¹⁾	7	Urinal flush pipe connector d 20 mm	1
325900	8	Urinal siphon (final assembly kit) d 40 / d 50 mm	1
334012	9	Fixing screws for operation unit frame (1 set = 4 pieces), (M5x60)	1
339400 ¹⁾	10	Extension set, 50-180 mm	1

¹⁾ to be discontinued

Spare part lists urinal elements 1996 – 07/2004; lower valve part made of plastic:
FRIABLOC®/FRIASET/WIMO /FRIAPLAN®

Urinal operation panels for IR actuation, battery 6V Ref.No. 3365xx; edition 1996 – 07/2004

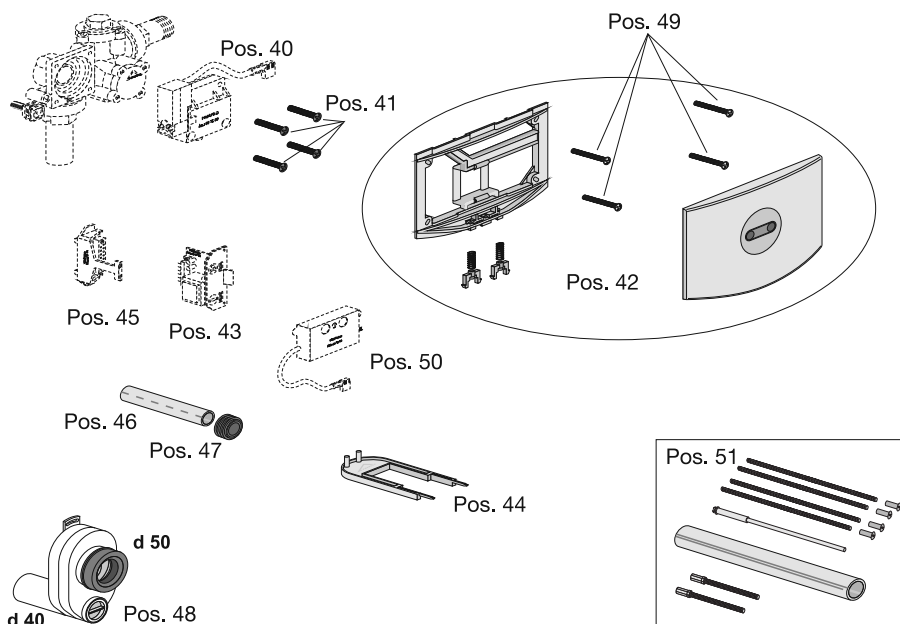


Ref.No.	Line	Type	PU1
337200	20	Upper valve unit for IR actuation old version - no longer available; reparation with exchange set Ref.No. 339670	
334057 ¹⁾	21	Self tapping screws for urinal (1 set = 2 pieces)	1
337101	22	Urinal operation panel for IR actuation – 01-alpine white, glossy	1
336700	23	Power supply unit with battery/ 6V old version - no longer available; reparation with exchange set Ref.No. 339670	
558007	24	Installation wrench for operation panel	1
336600	25	6V lithium DC photo battery CR P2	1
325600 ¹⁾	26	Urinal flush pipe d 20 mm	1
325700 ¹⁾	27	Urinal flush pipe connector d 20 mm	1
325900	28	Urinal siphon (final assembly kit) d 40 / d 50 mm	1
334012	29	Fixing screws for operation unit frame (1 set = 4 pieces), (M5x60)	1
337300	30	IR actuation sensor old version - no longer available; reparation with exchange set Ref.No. 339670	
339400 ¹⁾	31	Extension set, 50-180 mm	1

¹⁾ to be discontinued

Spare part lists urinal elements 1996 – 07/2004; lower valve part made of plastic: FRIABLOC®/FRIASET/WIMO /FRIAPLAN®

Urinal operation panels for IR actuation, 230V Ref.No. 3370xx; edition 1996 – 07/2004



Ref.No.	Line	Type	PU1
337200	40	Upper valve unit for IR actuation old version - no longer available, reparation with exchange set Ref.No. 339680	
334057 ¹⁾	41	Self tapping screws for urinal (1 set = 2 pieces)	1
337101	42	Urinal operation panel for IR actuation – 01-alpine white, glossy	1
337400	43	Power supply unit 230V old version - no longer available; reparation with exchange set Ref.No. 339680	
558007	44	Installation wrench for operation panel	1
339700	45	Adaptor for power supply unit 230V old version - no longer available; reparation with exchange set Ref.No. 339680	
325600 ¹⁾	46	Urinal flush pipe d 20 mm	1
325700 ¹⁾	47	Urinal flush pipe connector d 20 mm	1
325900	48	Urinal siphon (final assembly kit) d 40 / d 50 mm	1
334012	49	Fixing screws for operation unit frame (1 set = 4 pieces), (M5x60)	1
337300	50	IR actuation sensor old version - no longer available, reparation with exchange set Ref.No. 339680	
339400 ¹⁾	51	Extension set, 50-180 mm	1

¹⁾ to be discontinued

Exchange Set to repair urinal operation units, edition 1996 – 07/2004

Exchange set for manual actuation



for reparation purpose of urinal actuation version 1996 - 07/2004;
consisting of:

- Urinal lower valve unit complete (metal version)
- Fixing clips for urinal lower valve unit
- Self tapping screws for urinal (1 set = 2 pieces)
- Urinal upper valve unit for manual actuation (metal version)

Ref.No.	Type	PU1	Order qty (unit)
339660	Manual actuation	1	

Exchange set for IR actuation, battery 6V



for reparation purpose of urinal actuation version 1996 - 07/2004;
consisting of:

- Urinal lower valve unit complete (metal version)
- Fixing clips for urinal lower valve unit
- Self tapping screws for urinal (1 set = 2 pieces)
- Urinal upper valve unit for IR actuation (metal version)
- Power supply unit with battery/ 6 voltage
- IR actuation sensor ready to connect (metal version)

Ref.No.	Type	PU1	Order qty (unit)
339670	IR actuation battery / 6V	1	
336600	6V lithium battery	1	

Exchange set for IR actuation 230V



for reparation purpose of urinal actuation version 1996 - 07/2004;
consisting of:

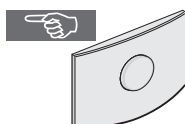
- Urinal lower valve unit complete (metal version)
- Fixing clips for urinal lower valve unit
- Self tapping screws for urinal (1 set = 2 pieces)
- Urinal upper valve unit for IR actuation (metal version)
- Adapter for 230V supply voltage
- Power supply unit with 230 voltage
- IR actuation sensor ready to connect (metal version)

Ref.No.	Type	PU1	Order qty (unit)
339680	IR actuation 230V	1	

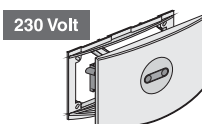
Spare part lists urinal elements date of production 08/2004 – 12/2009; lower valve part made of metal: FRIABLOC®/FRIASET/WIMO /FRIAPLAN®

Urinal support plates date of production since 08/2004: for manual actuation, IR actuation battery 6V and 230V

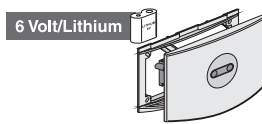
Model F 800
Ref.No. 3350xx



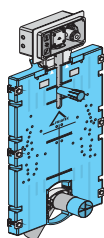
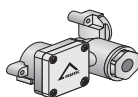
Model F 805
Ref.No. 3345xx



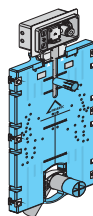
Model F 810
Ref.No. 3355xx



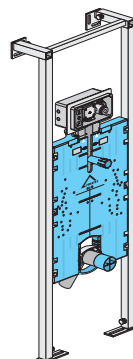
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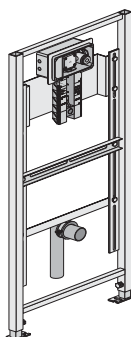
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Ref.No. 042944 /
17.A10.00..0001



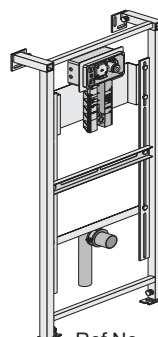
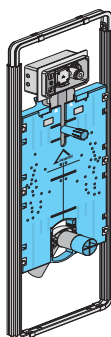
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Ref.No. 319994 /
90.A32.00..0001



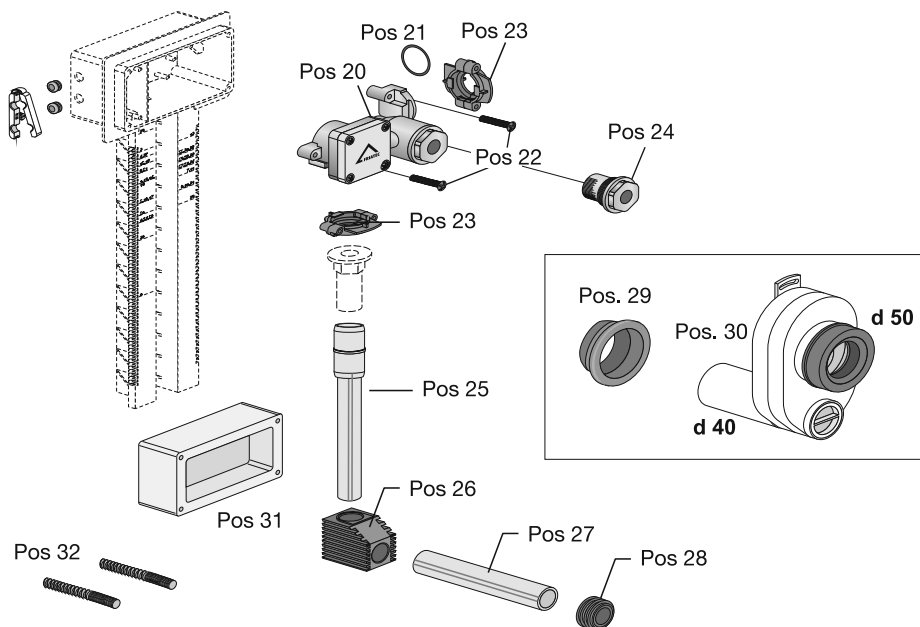
Ref.No. 300140 /
90.A06.00..0001
Ref.No. 390101



Ref.No. 319976 /
90.A26.00..0001

Spare part lists urinal elements date of production 08/2004 – 12/2009; lower valve part made of metal: FRIABLOC®/FRIASET/WIMO /FRIAPLAN®

Water supply and outlet complete – date of production since 08/2004

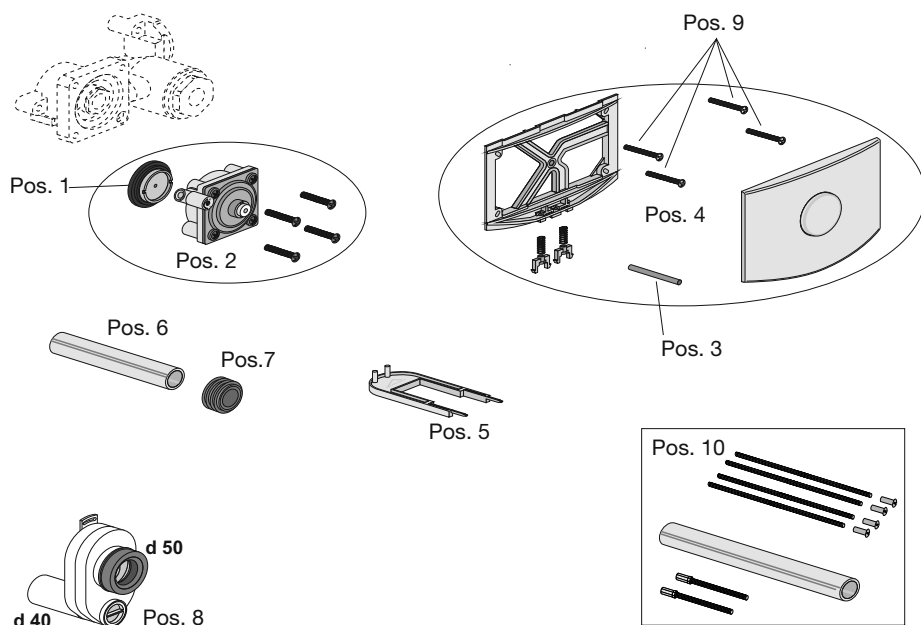


Ref.No.	Line	Type	PU1
339650	20	Urinal lower valve unit complete (metal version)	1
326600	21	O-ring 19 x 3 mm (2 pieces will be needed for installation of lower valve unit)	1
334057 ¹⁾	22	Self tapping screws for urinal (1 set = 2 pieces)	1
339690	23	Fixing clip for urinal lower valve unit (metal version)	1
339601	24	Sieve for lower valve unit (metal version)	1
325400 ¹⁾	25	Urinal flush pipe with socket d 20 mm	1
325500 ¹⁾	26	Urinal flush pipe redirection device d 20 mm	1
325600 ¹⁾	27	Urinal flush pipe d 20 mm	1
325700 ¹⁾	28	Urinal flush pipe connector d 20 mm	1
909077	29	Rubber nipple d 52/d 40 mm for siphon angle for urinal modules	1
325900	30	Urinal siphon (final assembly kit) d 40 / d 50 mm	1
334030 ¹⁾	32	Threaded rods M8 for urinal support plates (1 set = 2 pieces) - not for Ref.No. 319976 and Ref.No. 300140	1

¹⁾ to be discontinued

Spare part lists urinal elements date of production 08/2004 – 12/2009; lower valve part made of metal: FRIABLOC®/FRIASET/WIMO /FRIAPLAN®

Urinal operation panel for manual actuation Ref.No. 33 50 xx; date of production since 08/2004

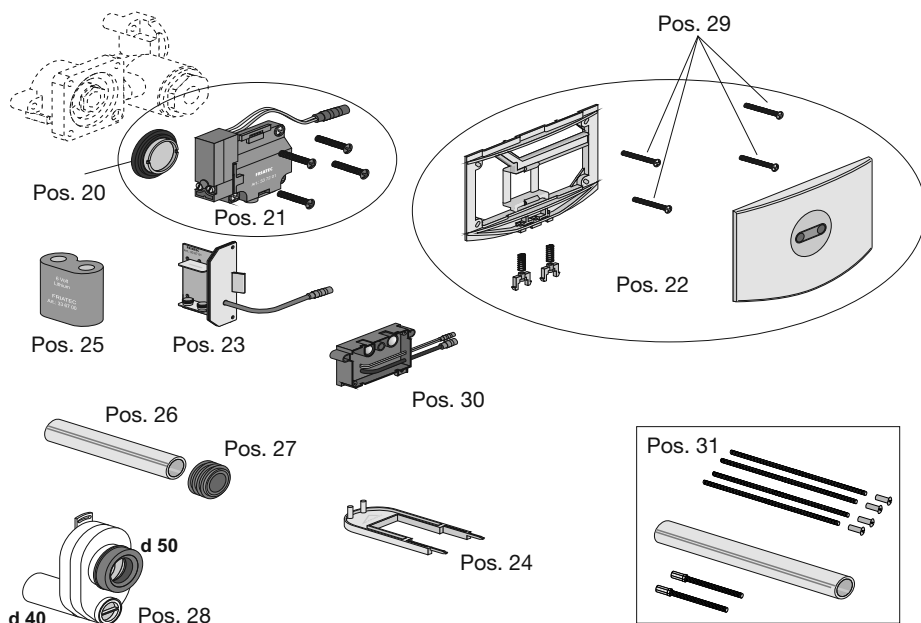


Ref.No.	Line	Type	PU1
339605	1	Diaphragm for mechanical urinal actuation	1
336201	2	Urinal upper valve unit for manual actuation (metal version)	1
336400	3	Operation bolts for urinal manual actuation	1
336101	4	Urinal operation panel for manual actuation – 01-alpine white, glossy	1
558007	5	Installation wrench for operation panel	1
325600 ¹⁾	6	Urinal flush pipe d 20 mm	1
325700 ¹⁾	7	Urinal flush pipe connector d 20 mm	1
325900	8	Urinal siphon (final assembly kit) d 40 / d 50 mm	1
334012	9	Fixing screws for operation unit frame (1 set = 4 pieces), (M5x60)	1
339400 ¹⁾	10	Extension set, 50-180 mm	1

¹⁾ to be discontinued

Spare part lists urinal elements date of production 08/2004 – 12/2009; lower valve part made of metal: FRIABLOC®/FRIASET/WIMO /FRIAPLAN®

Urinal operation panel with IR actuation, battery 6V Ref.No. 33 55 xx; date of production since 08/2004

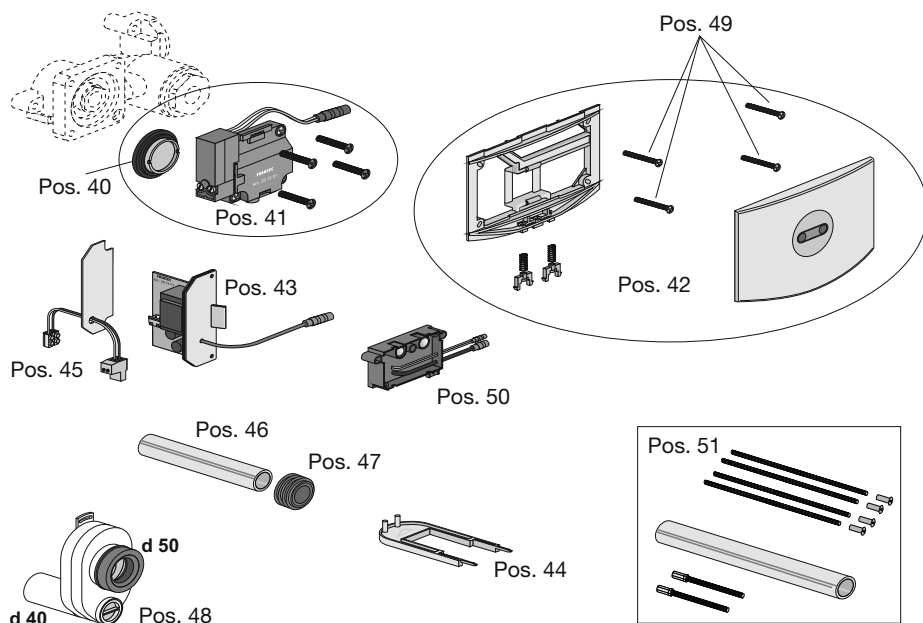


Ref.No.	Line	Type	PU1
339604	20	Diaphragm for electric urinal actuation	1
337201	21	Upper valve unit for IR actuation (metal version)	1
337101	22	Urinal operation panel for IR actuation – 01-alpine white, glossy	1
336701	23	Power supply unit with battery/ 6V (metal version)	1
558007	24	Installation wrench for operation panel	1
336600	25	6V lithium DC photo battery CR P2	1
325600 ¹⁾	26	Urinal flush pipe d 20 mm	1
325700 ¹⁾	27	Urinal flush pipe connector d 20 mm	1
325900	28	Urinal siphon (final assembly kit) d 40 / d 50 mm	1
334012	29	Fixing screws for operation unit frame (1 set = 4 pieces), (M5x60)	1
337301	30	IR actuation sensor ready to connect (metal version)	1
339400 ¹⁾	31	Extension set, 50-180 mm	1

¹⁾ to be discontinued

Spare part lists urinal elements date of production 08/2004 – 12/2009; lower valve part made of metal: FRIABLOC®/FRIASET/WIMO /FRIAPLAN®

Urinal operation panel with IR actuation, 230V Ref.No. 33 45 xx; date of production since 08/2004



Ref.No.	Line	Type	PU1
339604	40	Diaphragm for electric urinal actuation	1
337201	41	Upper valve unit for IR actuation (metal version)	1
337101	42	Urinal operation panel for IR actuation – 01-alpine white, glossy	1
337401	43	Power supply unit 230V	1
558007	44	Installation wrench for operation panel	1
339701	45	Adapter for 230V supply voltage	1
325600 ¹⁾	46	Urinal flush pipe d 20 mm	1
325700 ¹⁾	47	Urinal flush pipe connector d 20 mm	1
325900	48	Urinal siphon (final assembly kit) d 40 / d 50 mm	1
334012	49	Fixing screws for operation unit frame (1 set = 4 pieces), (M5x60)	1
337301	50	IR actuation sensor ready to connect (metal version)	1
339400 ¹⁾	51	Extension set, 50-180 mm	1

¹⁾ to be discontinued

Spare part lists urinal elements date of production since 08/2009 for cartridge valve technology: FRIASET

Urinal support plates date of production since 08/2009: for manual actuation, IR actuation battery 6V and 230V, relative conductivity 6V and 230 V



Ersatzteile für die Urinal-Kartuschenventiltechnik
(Handauslösung, IR-Auslösung, relative Leitfähigkeit) ab 08/2019
erhalten Sie bei der Firma:

Sanitärtechnik Eisenberg GmbH

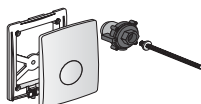
Gewerbegebiet - In der Wiesen 8

07607 Eisenberg

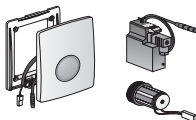
Tel.: +49 36691 598-0 • Fax: +49 36691 598-88000

info@sanit.com • www.sanit.com

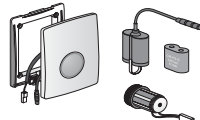
Modell F 900
Handauslösung
Art.Nr. 3380xx



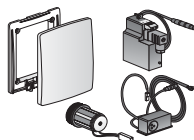
Modell F 905
IR-Auslösung 230 V
Art.Nr. 3382xx



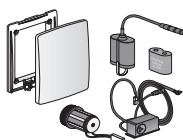
Modell F 910
IR-Auslösung 6 V
Art.Nr. 3381xx



Modell F 915
relat. Leitfähigkeit 230 V
Art.Nr. 338420



Modell F 920
relat. Leitfähigkeit 6 V
Art.Nr. 338320



XX = Farbcode

Artikel	Element	Page
300100	WC B.v.v.	31
300103	WC B.v.v.	26
300104	WC B.v.v.	26
300105	WC B.v.v.	31
300107	WC B.v.v.	31
300110	WC B.v.o.	40
300140	Urinal	50
300141	Urinal	55
301035	Urinal	55
302003	WC B.v.v.	26
302006	WC B.v.v.	31
302010	WC B.v.o.	40
319959	WC B.v.v.	26
319964	WC B.v.v.	31
319965	WC B.v.v.	31
319976	Urinal	50
319983	WC B.v.v.	26
319984	WC B.v.v.	31
319985	WC B.v.v.	31
319986	Urinal	44
319994	Urinal	50
319996	Urinal	44
319997	WC B.v.o.	40
319998	WC B.v.v.	20
321000	WC B.v.v.	20
321001	WC B.v.v.	31
321002	WC B.v.v.	31
321003	WC B.v.v.	26
322000	WC B.v.o.	40
322500	WC B.v.o.	40
322900	WC B.v.o.	40
323601	WC B.v.o.	40
323700	WC B.v.v.	20
323701	WC B.v.v.	20
323703	WC B.v.v.	26
324501	WC B.v.v.	20
324502	WC B.v.o.	40

Artikel	Element	Page
325000	Urinal	44
328700	WC B.v.v.	20
328800	WC B.v.o.	40
328810	WC B.v.v.	20
351000	WC B.v.v.	20
351025	Urinal	44
351030	Urinal	50
351035	Urinal	55
352003	WC B.v.v.	26
352005	WC B.v.v.	20
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Your direct line to

FRIATEC Building Services Division

Service team: Phone +49 621 486-1914
Fax +49 621 486-1902
e-mail: info-gebaeudetechnik@friatec.de
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