**Norm Conformity**

The FRIAFIT® sewage system of PE 100 complies with EN 12666 and hence is deemed a regulated construction product. It therefore does not need general approval from the building authorities. A certificate of conformity issued by DIBt® of Berlin has been submitted.

The FRIAFIT® connecting spigot ASA MULTI has been granted general approval from the building authorities. The approval certificate can be found at [**www.aliaxis.de**](file:///C:\Users\kionkak\AppData\Roaming\Microsoft\Word\ausschreibungstext%20friafit%20aliaxis20200401308041573465109966\www.aliaxis.de) in the download area.

Moreover, FRIAFIT® couplers AM SDR17 comply with the requirements under EN 12201 and ISO 4427.

FRIAFIT® couplers AM SDR17 have been certified under DVGW GW 335-B2 (certificates DV-8606BO6114 and DV-8611BO6115) and are subjected to regular monitoring by external agencies.

**Fusability**

FRIAFIT® safety fittings can be fused to pipes SDR 33 to SDR 17. Processing of other SDR pipes on request.

Please also note the details for each of the fusable SDR sizes given on the fitting’s barcode label as well as all other binding codes affixed directly to the product. Please consult our application engineering department before processing thin-walled pipes > SDR33.

FRIAFIT® safety fittings can be processed with pipes of PE 100 and PE 100RC, PE 80 under EN 12666, DIN 8074/75, EN 1555-2, EN 12201-2, ISO 4437, and ISO 4427, PE-Xa under DIN 16892/93. For PE pipes, the melt flow rate 190/5 is 0.2–1.7 g / 10 min.

Components with an MFR < 0.20 require confirmation of suitability.

FRIAFIT® safety fittings can be processed with FRIAMAT fusion units at ambient temperatures from -10 °C to +45 °C.

Material transition fusions must comply in addition with the standards and assembly guidelines specific to these materials or this system.

On restrictions in certain cases affecting the installation and processing of FRIAFIT® safety fittings in general, please read our assembly instructions, also our inhouse customer advisers will be pleased to answer any questions you may have.

Specification and tendering texts for HD-PE sewer pipes can be requested from their respective manufacturers.

**Aliaxis Deutschland GmbH**

kai.buessecker@aliaxis.com  
Tel.: 0621/486-1896

Further details can be taken from the following pages.

|  |  |  |
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| **Contents** | Page |  |
| **Couplers** AM/UB **SDR 17** | 3 |  |
| **Reducer for Relining SDR 17** REM | 4 |  |
| **Plug-in coupler for shaft lining adapter** AEM | 5 |  |
| **Shaft lining adapter** ASF | 6 |  |
| **Shaft lining adapter** ASFL **special length 250 mm** | 6 |  |
| **Sewage saddle Vacuum-Loading** ASA VL 160 | 7 |  |
| **Transition saddle Vacuum-Loading** ASA VL KG 160 | 8 |  |
| **Spigot saddle** ASA UNI | 9 |  |
| **Sewage saddle Vacuum-Loading** ASA VL 225 | 10 |  |
| **Connecting Spigot** ASA MULTI | 11 |  |
| **Sewage bend** ABM **coupler/coupler** | 12 |  |
| **Sewage bend** ABMS **coupler/spigot** | 13 |  |
| **Transition coupler** AMKG | 14 |  |
| **Transition piece** UKG | 14 |  |
| **Transition piece** USTZ | 15 |
| **Fixation for absorbing axial thrust and tensile forces** FIXBLOC | 15 |
| **Sewage bend 15°, 30°, 45° and 90°** ABS | 16 |
| **Equal branch 45°** ATS 45 | 17 |
| **Unequal branch 45°** ATSR 45 | 17 |
| **Unequal branch 45° with excentric outlet** ATSRS 45 | 18 |
| **Unequal branch 90° with excentric outlet** ATSRS 90 | 19 |
| **Sewage end cap** CDE | 19 |
| **Reducer off-center** RES | 20 |

Update 06/2023

Page **2** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 1.0 |  | **Couplers** AM/UB **SDR 17**  **for permanently tight HD-PE pipe joins of high axial strength and root resistance**  **Attributes**  – Size PE 100 / SDR 17  – Both pipe ends can be welded in the one operation, max d 450  – Preheating system from d 560  – Exposed, fixed heating coil without PE sheathing, for optimal heat transfer during fusion:  • installation without holding device  • short cooling times  – Outer coupler reinforcement for enhanced join quality, from d 200  – Large insertion depth  – Extra wide fusion zone  – Extra-long cold zones at the front sides and centre for improved pipe- routing and eliminated melt discharge  – Barcodes for fully automated fusion  – Safety contacts for fixed and all insulated connections to fusion equipment  – Temperature compensation (auto fusion time adjust to ambient temperature)  – Barcode allows automatic traceability of the fitting  – Processing of the fittings according DVS 2207-1  – Indelibly stamped batch identification  – Individually packaged in a sheet bag  – DIN EN 10204 – 3.1 inspection test certificate on request  – Max. operating pressure 10 bar (water/sewage)  – DVGW registration in compliance with VP 607/GW335-B2  **Available in the sizes**   |  |  |  |  | | --- | --- | --- | --- | | d 110 | d 225 | d 400 | d 710➀➁➂ | | d 125 | d 250 | d 450 | d 800➀➁➂ | | d 160 | d 280 | d 500➀ | d 900➀➁➂ | | d 180 | d 315 | d 560➀➁ | d 1000➀➁➂ | | d 200 | d 355 | d 630➀➁ | d 1200➀➁➂ |   ➀ separate fusion zones  ➁ with preheating technology  ➂ Couplers UB SDR 17 |  |  |

Update 06/2023

Page **3** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 2.0 |  | **Reducer for Relining** REM  **for connection from PE-Liner pipe to standard HD-PE pipe**  **Attributes**  – Size PE 100 / SDR 17  – Preheating system for gap reduction between coupler and pipe possible  – Exposed, fixed heating coils without PE sheathing, for optimal heat transfer during fusion:  ⇒ installation without holding device  ⇒ short cooling times  – Outer coupler reinforcement for enhanced join quality  – Large insertion depth  – Extra wide fusion zone  – Extra-long cold zones at the end and in the transition area to prevent the flow of molten material  – Barcodes for fully automated fusion  – Barcode allows automatic traceability of the fitting  – Processing of the fittings according DVS 2207-1  – Safety contacts for fixed and all insulated connections to fusion equipment  – Temperature compensation (auto fusion time adjust to ambient temperature)  – Indelibly stamped batch identification  – Individually packaged in a sheet bag  – DIN EN 10204 – 3.1 inspection test certificate on request  – Max. operating pressure 10 bar (water/sewage)  – DVGW registration in compliance with VP 607/GW335-B2  **Available in the sizes**   |  |  |  | | --- | --- | --- | | d 110 / DN 100 |  |  | | d 160 / DN 150 |  |  | | d 315 / DN 300 |  |  | |  |  |  | |  |  |  | |  |  |

Update 06/2023

Page **4** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 3.0 |  | **Plug-in coupler for shaft lining adapter** AEM **incl. water absorbent sealing ring Q**  **– for the jointed integration of HD-PE pipes in DIN V 4034 and DWA – A 157 concrete chambers in conjunction with the** FRIAFIT **sewage inspection chamber adapter** ASF  **– for the jointed integration of HD-PE pipes in masonry chambers in conjunction with the** FRIAFIT **sewage inspection chamber adapter** ASFL Attributes – Elastomer sealant joint on the FRIAFIT sewage inspection chamber adapter ASF for equalising  • max 3° deflections  • tensile stress in the PE pipe  – Two sealing rings safeguard the optimal press fit in the FRIAFIT sewage inspection chamber adapter ASF  – Sealing rings comply with the general requirements under DIN EN 681 and DIN 4060  – Water absorbent sealing ring Q for additional safety  – Expands to ten times its initial volume on contact with water  – Threefold sealing system with optimised ASF fit  – Exposed, fixed heating coil without PE sheathing, for optimal heat transfer during fusion:  • installation without holding device  • short cooling times  – Outer coupler reinforcement for enhanced join quality, from d 200  – Large insertion depth  – Extra wide fusion zone  – Extra-long cold zones at the front side and centre for improved pipe routing and to prevent the flow of molten material  – Barcodes for fully automated fusion  – Barcode allows automatic traceability of the fitting  – Processing of the fittings according DVS 2207-1  – Safety contacts for fixed and all insulated connections to fusion equipment  – Temperature compensation (auto fusion time adjust to ambient temperature)  – Indelibly stamped batch identification  – Individually packaged in a sheet bag  – DIN EN 10204 – 3.1 inspection test certificate on request  **Available in the sizes**   |  |  |  |  | | --- | --- | --- | --- | | d 110 | d 225 | d 355 | d 560➀ | | d 160 | d 250 | d 400 | d 630➀ | | d 180 | d 280 | d 450 |  | | d 200 | d 315 | d 500 |  |   ➀ with preheating technology |  |  |

Update 06/2023

Page **5** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 4.0 |  | **Shaft lining adapter** ASF  **Connecting element between precast concrete chamber and** FRIAFIT **sewage insert sleeve** AEM  Attributes  – Corrosion resistant HD-PE component  – Anchoring webs over the whole component width for secure installation in concrete (T section)  – Large wall thickness for stable internal diameter and hence optimised AEM fit  – Flush end connection (inside and outside) at bottom of concrete chamber (DIN V 4034)  – Safeguards in conjunction with AEM a test pressure of 0.5 bar in compliance with DIN EN 1610  **Available in the sizes**   |  |  |  |  | | --- | --- | --- | --- | | d 110 | d 225 | d 355 | d 560 | | d 160 | d 250 | d 400 | d 630 | | d 180 | d 280 | d 450 |  | | d 200 | d 315 | d 500 |  | |  |  |

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 5.0 |  | **Shaft lining adapter** ASFL **Special length 250 mm for masonry chambers**  **Connecting element between masonry chamber and** FRIAFIT **sewage insert sleeve** AEM  Attributes  – Corrosion resistant HD-PE component  – Retrofit on masonry chambers  – Anchoring webs over the whole component width for secure installation in concrete (T section)  – Large wall thickness for stable internal diameter and hence optimised AEM fit  – Safeguards in conjunction with AEM a test pressure of 0.5 bar in compliance with DIN EN 1610  **Available in the sizes**   |  |  |  |  | | --- | --- | --- | --- | | d 225 | d 280 | d 355 | d 560 | | d 250 | d 315 | d 450 | d 630 | |  |  |  |  | |  |  |  |  | |  |  |

Update 06/2023

Page **6** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 6.0 |  | **Sewage saddle Vacuum-Loading** ASA VL 160  **for joining sewage service pipes to HD-PE waste-water ducts in new installations or as retrofit**  **Attributes**  – Corrosion resistant HD-PE component  – Small space requirements for ease of installation  – Direct integration of connecting pipes without disruptive offsets or obstruction to drainage  – Exposed, fixed heating coil without PE sheathing in the saddle weld zone for direct heat transfer to the pipe’s fusion surface  – With **integrated fusion coupler** d 160 (DN 150) in the tap off  – Extra wide fusion zones  – Extra-long cold zones at the saddle and in the tap off to prevent the flow of molten material  – Barcodes for fully automated fusion  – Barcode allows automatic traceability of the fitting  – Processing of the fittings according DVS 2207-1  – Safety contacts for fixed and all insulated connections to fusion equipment  – Temperature compensation (auto fusion time adjust to ambient temperature)  – Indelibly stamped batch identification  – Individually packaged in a sheet bag  – DIN EN 10204 – 3.1 inspection test certificate on request  – Max. operating pressure 2.5 bar (sewage)  Processing requires the FRIATOOLS clamping unit FRIALOAD.  **Available in the sizes**   |  |  |  |  | | --- | --- | --- | --- | | d 200/160 | d 280/160 | d 400/160 | d 560/160 | | d 225/160 | d 315/160 | d 450/160 | d 630/160 | | d 250/160 | d 355/160 | d 500/160 |  | |  |  |  |  |   For installation on Close-Fit Liner and d 560 and d 630 please contact our hotline  +49 621/4861896 |  |  |

Update 06/2023

Page **7** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 7.0 |  | **Transition saddle Vacuum-Loading** ASA VL KG 160  **with integrated plug-in sleeve for joining DN 150 sewage service pipes of PVC or PP to HD-PE waste-water ducts in new installations or as retrofit**  **Attributes**  – Corrosion resistant HD-PE component  – Small space requirements for ease of installation  – Direct integration of connecting pipes without disruptive offsets or obstruction to drainage  – Exposed, fixed heating coil without PE sheathing in the saddle fusion zone for direct heat transfer to the pipe’s fusion surface  – With integrated DN 150 plug-in sleeve (internal diameter) in the tap off; connecting pipes of PVC or PP are inserted directly in the sleeve section  – Large insertion depth for reliable connection pipe routing  – SBR lip seal complying with EN 681-1  – Extra wide fusion zone at the saddle  – Extra-long cold zones at the saddle to prevent the flow of molten material  – Barcodes for fully automated saddle fusion  – Barcode allows automatic traceability of the fitting  – Processing of the fittings according DVS 2207-1  – Safety contacts for fixed and all insulated connections to fusion equipment  – Temperature compensation (auto fusion time adjust to ambient temperature)  – Indelibly stamped batch identification  – Individually packaged in a sheet bag  – DIN EN 10204 – 3.1 inspection test certificate on request  – Max. operating pressure 0.5 bar (sewage)  Processing requires the FRIATOOLS clamping unit FRIALOAD.  **Available in the sizes**   |  |  |  |  | | --- | --- | --- | --- | | d 225/ DN 150 | d 355/ DN 150 | d 560/ DN 150 |  | | d 280/ DN 150 | d 450/ DN 150 | d 630/ DN 150 |  | | d 315/ DN 150 | d 500/ DN 150 |  |  |   For installation on Close-Fit Liner and d 560 and d 630 please contact our hotline  +49 621/4861896 |  |  |

Update 06/2023

Page **8** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 8.0 |  | **Spigot saddle** ASA UNI  **for integration of a branch line in PE pipelines – unpressurised or under operating pressure**    **Attributes**  – Compact fitting made of HD-PE  – Corrosion resistant  – Small space requirements for ease of installation  – Direct integration of connecting pipes without disruptive offsets or obstruction to drainage  – Exposed, fixed heating coil without PE sheathing in the saddle fusion zone for direct heat transfer to the pipe’s fusion surface  – The outlet spigot d 160 offers a levelled passage when using pipes SDR 17/17.6  – For processing with FRIAFIT couplers AM or bends ABM/ABMS  – Extra wide fusion zones  – Extra-long cold zones at the saddle to prevent the flow of molten material  – Suitable for all pipe diameters in the given range using the clamping unit UNITOP  – Tapping in unpressurised condition with tapping kit FWAB XL / FWAB ASA  – Barcodes for fully automated fusion  – Barcode allows automatic traceability of the fitting  – Processing of the fittings according DVS 2207-1  – Safety contacts for fixed and all insulated connections to fusion equipment  – Temperature compensation (auto fusion time adjust to ambient temperature)  – Indelibly stamped batch identification  – Individually packaged in a sheet bag  – DIN EN 10204 – 3.1 inspection test certificate on request  – Max. operating pressure 2.5 bar (sewage)  Processing requires the UNITOP clamping unit and FWAB XL tapping kit  **Available in the sizes**  d 630 – 900 / d 160 |  |  |

Update 06/2023

Page **9** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 9.0 |  | **Sewage saddle Vacuum-Loading** ASA VL 225  **for jointing of large branches d 225 at HD-PE main pipes**  **Attributes**  – Compact fitting made of HD-PE  – Corrosion resistant  – Small space requirements for ease of installation  – Direct integration of connecting pipes without disruptive offsets or obstruction to drainage  – Exposed, fixed heating coil without PE sheathing in the saddle fusion zone for direct heat transfer to the pipe’s fusion surface  – The outlet spigot d 225 for use with FRIAFIT couplers AM or transition couplers AMKGd 225 on PVC/PP DN 200  – Level passage in combination with SDR 17/17.6connection pipes, unobstructed drainage  – Extra wide fusion zones  – Extra-long cold zones at the saddle to prevent the flow of molten material  – Innovative vacuum clamping for safe bridging of even large pipe out-of-roundness’s and pipe shape deviations  – Tapping in unpressurised condition with tapping kit FWAB ASA  – Barcodes for fully automated fusion  – Barcode allows automatic traceability of the fitting  – Processing of the fittings according DVS 2207-1  – Safety contacts for fixed and all insulated connections to fusion equipment  – Temperature compensation (auto fusion time adjust to ambient temperature)  – Indelibly stamped batch identification  – Individually packaged in a sheet bag  – DIN EN 10204 – 3.1 inspection test certificate on request  – Max. operating pressure 2.5 bar (sewage)  Processing requires FRIATOOLS clamping unit FRIALOAD.  **Available in the sizes**   |  |  |  |  | | --- | --- | --- | --- | | d 315 / d 225\* | d 400 / d 225\* | d 500 / d 225\* | d 630 / d 225 | | d 355 / d 225 | d 450 / d 225 | d 560 / d 225 | d 710 / d 225\* |   \* Cross-dimensional processing: Processing requires FRIATOOLS mounting aid ASA VL |  |  |

Update 06/2023

Page **10** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 10.0 |  | **Connecting Spigot** ASA MULTI  **for the connection of HD-PE service pipes d 160 or side branches to clay or concrete mains.**  **Attributes**  – Corrosion resistant HD-PE component  – Small space requirements for ease of installation  – The outlet spigot d 160 offers a levelled passage when using pipes SDR 17/17.6.  – Its bright inner surface facilitates an optimal view during camera inspection  – Fusible with FRIAFIT couplers AM or bends ABM/ABMS  – Indelibly stamped batch identification  – Individually packaged in a sheet bag  – DIN EN 10204 – 3.1 inspection test certificate on request  – Max. operating pressure 0.5 bar (sewage)  – The tapping take place with a usual core drill fitted with a standard tapping bit of  d = 172 mm  For the assembly the assembly key ASA MULTI MS is required  (Order-Ref. 682660)  **Available in the sizes**   |  |  |  | | --- | --- | --- | |  |  |  | | DN 250 ➀ | d 160 | Order-Ref. 682650 | | DN 300 / DN 350 ➁ | d 160 | Order-Ref. 682651 | | DN 250 / DN 300 ➂ | d 160 | Order-Ref. 682651 |   ➀ Suitable for connection to clay pipes DN 250 N and DN 250 H (standard and high- performance series EN 295)  ➁ Suitable for connection to clay pipes DN 300/350 N and DN 300 /DN 350 H (standard and high-performance series EN 295)  ➂ Suitable for connection to concrete pipes DN 250/DN 300 (EN1916) |  |  |

Update 06/2023

Page **11** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 11.0 |  | **Sewage bend (coupler/coupler)** ABM  **for directional changes in HD-PE sewage connection pipes**  **Attributes**  – Both pipe ends can be fused in one operation  – Compact design for little space requirements  – Integrated fusion coupler for shorter assembly times  – Level passage in combination with SDR 17/17.6connection pipes, unobstructed drainage  – Corrosion resistant HD-PE component (PE 100)  – Bright internal surface for continuous component inspection with cameras  – Bend geometry for optimised hydraulic properties  – Exposed, fixed heating coil without PE sheathing, for optimal heat transfer during fusion:  • installation without holding device  • short cooling times  – Short welding times  – Large insertion depth  – Extra wide fusion zone  – Extra-long cold zones for improved pipe routing and to prevent the flow of molten material  – Barcodes for fully automated fusion  – Barcode allows automatic traceability of the fitting  – Processing of the fittings according DVS 2207-1  – Safety contacts for fixed and all insulated connections to fusion equipment  – Indicators for visual fusion verification  – Temperature compensation (auto fusion time adjust to ambient temperature)  – Indelibly stamped batch identification  – Individually packaged in a sheet bag  – DIN EN 10204 – 3.1 inspection test certificate on request  – Max operating pressure 2.5 bar (sewage)  **Angular divisions 15°, 30°, and 45°**  **Available in the sizes**  d 160 |  |  |

Update 06/2023

Page **12** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 12.0 |  | **Sewage bend (coupler/spigot)** ABMS  **for directional changes in HD-PE sewage connection pipes or direct fusion in the sewage saddle** ASA VL  **Attributes**  – I/A design: coupler / spigot end  – Multiple applications or combination with sewage elbow **ABM** for universal changes in direction  – Compact design for small space requirements  – Integrated fusion coupler for shorter assembly times  – Level passage in combination with SDR 17/17.6connection pipes, unobstructed drainage  – Corrosion resistant HD-PE component (PE 100)  – Bright internal surface for continuous component inspection with cameras  – Bend geometry for optimised hydraulic properties  – Exposed, fixed heating coil without PE sheathing, for optimal heat transfer during fusion:  • installation without holding device  • short cooling times  – Short fusion times  – Large insertion depth  – Extra wide fusion zone  – Extra-long cold zones before and after the fusion area for improved pipe routing and to prevent the flow of molten material  – Barcodes for fully automated fusion  – Barcode allows automatic traceability of the fitting  – Processing of the fittings according DVS 2207-1  – Safety contacts for fixed and all insulated connections to fusion equipment  – Indicators for visual fusion verification  – Temperature compensation (auto fusion time adjust to ambient temperature)  – Indelibly stamped batch identification  – Individually packaged in a sheet bag  – DIN EN 10204 – 3.1 inspection test certificate on request  – Max. operating pressure 2.5 bar (sewage)  **Angular divisions 15°, 30°, and 45°**  **Available in the sizes**  d 160 |  |  |

Update 06/2023

Page **13** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 13.0 |  | **Transition coupler** AMKG  **material transition of HD-PE pipes to PVC/PP pipes in house service connections**  **Attributes**  – Corrosion resistant HD-PE component  – With integrated fusion coupler  – Barcode allows automatic traceability of the fitting  – Processing of the fittings according DVS 2207-1  – Slip-on coupler with large insertion depth and SBR lip seal  – Smooth material transition in the direction of flow through SDR 17–33 PE pipes  **Available in the sizes**  d 160 / DN 150  d 225 / DN 200 |  |  |

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 14.0 |  | **Transition piece** UKG  **material transition in domestic range between HD-PE pipes and PVC/PP pipes (spigot end)**    **Attributes**  – Corrosion resistant HD-PE component  – HD-PE side can be fused with FRIAFIT coupler AM, bends ABM/ABMS or with the outlet of the sewage saddle ASA VL  – PVC/PP side as socket coupler with SBR lip seal gasket and large insertion depth  – Smooth material transition in the direction of flow through SDR 17–33 PE pipes  **Available in the sizes**  d 160 / DN 150 |  |  |

Update 06/2023

Page **14** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 15.0 |  | **Transition piece** USTZ  **material transition in domestic range between HD-PE pipes and stoneware pipes (spigot end)**  **Attributes**  – Corrosion resistant HD-PE component  – HD-PE side can be fused with FRIAFIT coupler AM, bends ABM/ABMS or with the outlet of the sewage saddle ASA VL  – Stoneware side as socket coupler with SBR lip seal gasket and large insertion depth  – Smooth material transition in the direction of flow through SDR 17–33 PE pipes  **Available in the sizes**  d 160 / DN 150 |  |  |

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 16.0 |  | **Fixation for absorbing axial thrust and tensile forces** FIXBLOC  **is used on PE pipes for the creation of fixed point, as a pull-out protection, assembly aid or fixation to pipe bearing**  **Attributes**  – Corrosion resistant HD-PE component  – Exposed, fixed heating coil without PE sheathing for optimal heat transfer to the pipe’s fusion surface  – Strength per fixed point up to 40 KN / 9000 lbf.  – Multiple applications possible around the pipe circumference  – Processing is carried out with standard tensioning belts (width 50mm and length approx. 3.5 x d pipe or longer for multiple applications) or with the clamping deviceFIXBLOC-FWFB, if the belt cannot be passed around the circumference of the pipe  –DIN EN 10204 – 3.1 inspection test certificate on request  Processing requires a standard tensioning belt with belt width 50mm or the FRIATOOLS clamping device FIXBLOC FWFB (Order-Ref. 613380)  **Available in the sizes**  d 160 – 1600 |  |  |

Update 06/2023

Page **15** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 17.0 |  | **Sewage bend 15°, 30°, 45° and 90° (spigot fittings)** ABS  **HD-PE fitting for use with** FRIAFIT **coupler** AM  **Attributes**  – Size PE 80 / PE 100 / SDR 17.6  – Installation without holding device  – Bright internal surface for continuous component inspection with cameras (depends on availability)  – Max. testing pressure 0.5 bar in accordance to DIN EN 1610    **ABS 15**  **Available in the sizes \*:**   |  |  |  |  | | --- | --- | --- | --- | | d 110 | d 160 | d 225 |  | | d 125 | d 180 | d 280  d 355 |  |   **ABS 30**  **Available in the sizes \*:**   |  |  |  |  | | --- | --- | --- | --- | | d 110 | d 180 | d 315 |  | | d 125 | d 225 | d 355 |  | | d 160 | d 280 |  |  |   **ABS 45**  **Available in the sizes \*:**   |  |  |  |  | | --- | --- | --- | --- | | d 110 | d 180 | d 250 | d 355 | | d 125 | d 200 | d 280 |  | | d 160 | d 225 | d 315 |  |   **ABS 90**  **Available in the sizes \*:**   |  |  |  |  | | --- | --- | --- | --- | | d 160 |  |  |  | | d 180 |  |  |  | | d 225 |  |  |  |   \*more dimensions on request. |  |  |

Update 06/2023

Page **16** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 18.0 |  | **Equal branch 45° (spigot fittings)** ATS 45  **HD-PE fitting for use with** FRIAFIT **coupler** AM  **Attributes**  – Size PE 80 / PE 100 / SDR 17.6  – Installation without holding device  – Bright internal surface for continuous component inspection with cameras (depends on availability)  – Max. testing pressure 0.5 bar in accordance to DIN EN 1610    **Available in the sizes \*:**   |  |  |  | | --- | --- | --- | | d 110 | d 200 | d 315 | | d 125 | d 225 | d 355 | | d 160 | d 250 |  | | d 180 | d 280 |  |   \*more dimensions on request. |  |  |

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 19.0 |  | **Unequal branch 45° (spigot fittings)** ATSR 45  **HD-PE fitting for use with** FRIAFIT **coupler** AM  **Attributes**  – Size PE 80 / PE 100 / SDR 17.6  – Installation without holding device  – Bright internal surface for continuous component inspection with cameras (depends on availability)  – Max. testing pressure 0.5 bar in accordance to DIN EN 1610    **Available in the sizes \*:**   |  |  |  |  | | --- | --- | --- | --- | | d 160 / 110 | d 280 / 225 | d 355 / 160 |  | | d 225 / 160 | d 315 / 160 | d 355 / 225 |  | | d 280 / 160 | d 315 / 225 | d 450 / 160 |  | | \*more dimensions on request. | | | | |  |  |

Update 06/2023

Page **17** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 20.0 |  | **Unequal branch 45° with excentric outlet (spigot fittings)** ATSRS 45  **HD-PE fitting with excentric outlet for use with** FRIAFIT **coupler** AM  **Attributes**  – Size PE 80 / PE 100 / SDR 17.6  – Installation without holding device  – Bright internal surface for continuous component inspection with cameras (depends on availability)  – Max. testing pressure 0.5 bar in accordance to DIN EN 1610  – When ordering, name the required outlet side (right/left) in flow direction    **Available in the sizes \*:**   |  |  |  |  | | --- | --- | --- | --- | | d 315 / 160 | d 450 / 160 | d 630 / 160 |  | | d 315 / 225 | d 450 / 225 | d 630 / 225 |  | | d 355 / 160 | d 560 / 160 |  |  | | d 355 / 225 | d 560 / 225 |  |  | | \* more dimensions on request. | |  |  | |  |  |

Update 06/2023

Page **18** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 21.0 |  | **Unequal branch 90° with excentric outlet (spigot fittings)** ATSRS 90  **HD-PE fitting with excentric outlet for use with** FRIAFIT **coupler** AM  **Attributes**  – Size PE 80 / PE 100 / SDR 17.6  – Installation without holding device  – Bright internal surface for continuous component inspection with cameras (depends on availability)  – Max. testing pressure 0.5 bar in accordance to DIN EN 1610    **Available in the sizes \*:**   |  |  |  |  | | --- | --- | --- | --- | | d 315 / 160 | d 450 / 160 | d 630 / 160 |  | | d 315 / 225 | d 450 / 225 | d 630 / 225 |  | | d 355 / 160 | d 560 / 160 |  |  | | d 355 / 225 | d 560 / 225 |  |  | | \* more dimensions on request. | |  |  | |  |  |

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| --- | --- | --- | --- | --- |
| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 22.0 |  | **Sewage end cap (spigot fittings)** CDE  **HD-PE fitting for use with** FRIAFIT **coupler** AM  **Attributes**  – Size PE 80 / PE 100 / SDR 17.6  – Installation without holding device  – Max. testing pressure 0.5 bar in accordance to DIN EN 1610    **Available in the sizes:**   |  |  |  |  | | --- | --- | --- | --- | | d 110 | d 225 | d 400 |  | | d 125  d 160  d 180 | d 280  d 315  d 355 |  |  | |  |  |

Update 06/2023

Page **19** of **20**

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| **Item** | **Qty.** | **Text** | **UP** | **TP** |
| 23.0 |  | **Reducer off-center (spigot fittings)** RES  **HD-PE fitting for use with** FRIAFIT **coupler** AM  **Attributes**  – Size PE 80 / PE 100 / SDR 17.6  – Installation without holding device  – Max. testing pressure 0.5 bar in accordance to DIN EN 1610    **Available in the sizes \*:**   |  |  |  |  | | --- | --- | --- | --- | | d 110 / 125 | d 160 / 225 |  |  | | d 110 / 160 | d 200 / 225  d 225 / 280 |  |  | | \* more dimensions on request. | | | | |  |  |

All information corresponds to the current status at the time of printing. We reserve the right to make changes in the interest of technical progress.

Update 06.2023

Page **20** of **20**