

HDPE PE100

Advance Drainage System



**Rohrflex Weldable Advance High-density
Polyethylene Drainage Piping System**



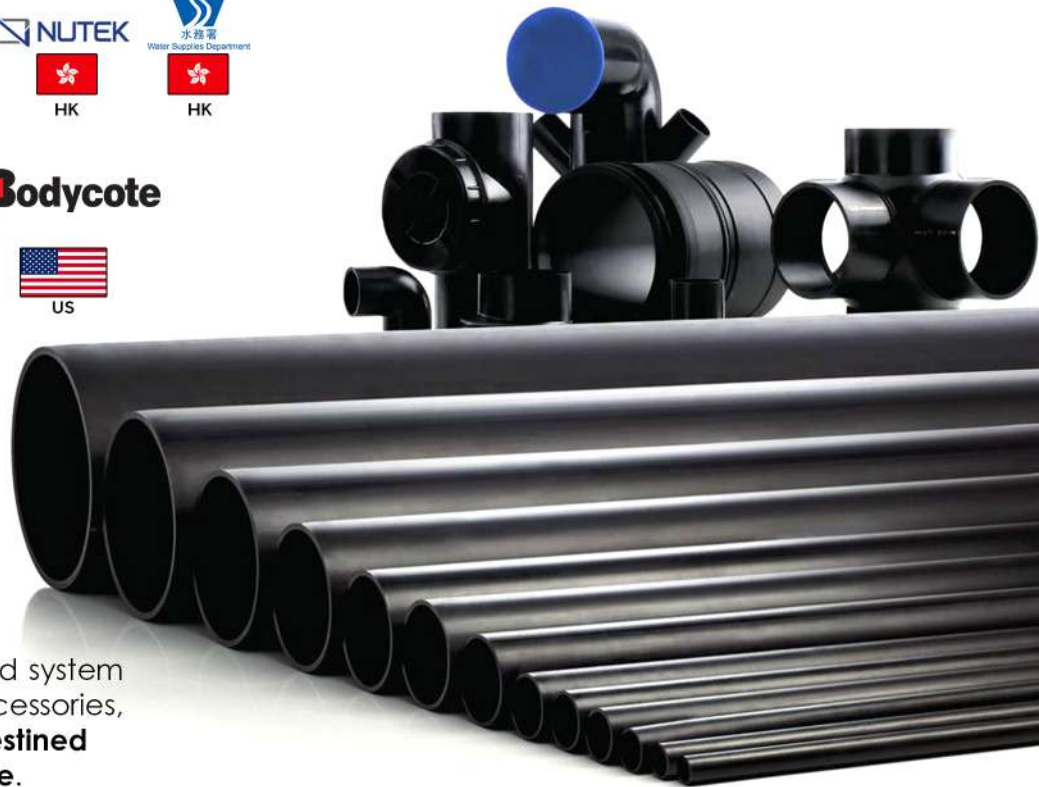
RHRFLEX-VASEN

ADVANCED GERMAN ENGINEERING 

ADVANCE PRODUCT QUALITY

Rohrflex HDPE – certified globally and surpassed testing standards from international regulating institutions

All our pipes are produced in compliance with **European Standard EN 1519** and can be used in waste systems at low (as low as -45C) and high (up to 100C) temperatures, in ventilation systems of waste networks and for rainwater drainage inside buildings, hotels, hospitals, condominiums, malls, laboratories, and houses thanks to its high-resistance to chemical compounds.



Rohrflex HDPE is a fusion welded system made of pipes, fittings, and accessories, suitable for installation types, **designed to waste and rainwater drainage.**

Rohrflex is the perfect solution for installations above ground, thanks to its resistance to UV light; and below ground or embedded in concrete, thanks to its **exceptional mechanical and impact-resistant characteristics.**

Rohrflex is the superior alternative to typical orange PVC pipes as it is impact-resistant, odor-free, leak-proof, and hot water tolerant as compared to the latter.

ADVANCE TECHNOLOGY AND ENGINEERING

The Rohrflex Advantage



Impact-resistant



No odor



No leak



UV-resistant



No virus



Hot and cold water



German Engineering



Superior raw materials



High density polyethylene

The pipes and fittings are made of high density, UV light resistant, polyethylene that guarantees high mechanical resistance, excellent abrasion resistance, extremely smooth surfaces and high resistance to chemical agents.

- The pipes undergo a **proprietary annealing process** in hot water to reduce inherent tensile stress created during the manufacturing. This ensures long-term joint integrity as thermal expansion is reduced compared to standard HDPE pipes in the market.
- Completely unbreakable at room temperature and offers **excellent impact resistance** even at temperatures of -45°C .
- **Considerable chemical-resistance** due to its paraffin structure. The system is insoluble in all inorganic and organic solutions at 20°C .
- **Comprehensive abrasion-resistance due to its extra-thick walls** which offers superior protection from both internal and external abrasion.
- **Complete-range** of pipe diameters from 56mm to 400mm, available in both SDR 26 and SDR 33.

Rohrflex High-density Polyethylene

The pipes are built with the highest grade of resin (PE 100) available in Europe from LyondellBasell and engineered with state-of-the-art German extrusion machines thus ensuring superior quality and durability compared to standard HDPE pipes in the market.

ADVANCE AND VERSATILE APPLICATIONS



Building Drainage Installation

Rohrflex HDPE is versatile to use as it offers numerous joining methods and meets all installation requirements. Our HDPE piping system can be used to construct drainage systems for waste water and rain water in residential buildings, hospitals, hotels, schools, offices, laboratories, and malls. Its excellent resistance to UV light allows surface mounting both indoors and outdoors. Due to its acoustic properties of just 25 decibels, it is ideal for residential buildings and houses.



Concrete Installation

Rohrflex HDPE can be embedded in concrete. Due to its high abrasion resistance and high elasticity, the mechanical stress that is induced inside the pipe wall by thermal expansion and contraction is perfectly compatible with the mechanical resistance of the material itself. This makes it ideal for using the system in concrete.



Underground Installation

Rohrflex HDPE can be installed underground due to its high resistance to abrasion – both internal and external, and together with its high crush resistance.



ADVANCE PE 100 PIPES AND FITTINGS

HDPE PIPES SDR 26



Size(mm)

56 x 3.0 x 5m
90 x 3.5 x 5m
110 x 4.2 x 5m
160 x 6.2 x 5m
200 x 7.7 x 5m
250 x 9.6 x 5m
315 x 12.1 x 5m
400 x 15.3 x 5m

ECCENTRIC REDUCER



Size(mm) Size(mm)

56/50 250/200
63/56 315/110
90/56 315/200
90/63 315/250
110/56
110/90
160/110
200/110
200/160
250/160

BEND 45°



Size(mm)

56
90
110
160
200
250
315
400

BEND 90°



Size(mm)

56
90
110
160
200
250
315
400

45° EQUAL BRANCH (WYE)



Size(mm)

56
90
110
160
200
250
315
400

45° REDUCING BRANCH (WYE REDUCER)



Size(mm) Size(mm)

110/56 315/160
110/90 315/200
160/90 315/250
160/110 400/315
200/110
200/160
250/100
250/160
315/110

SOVENT AERATOR/VENTILATION



Size(mm)

110
160

TEE EQUAL (EQUAL BRANCH 90°)



Size(mm)

56
90
110
160
200
250
315
400

TEE UNEQUAL (REDUCING BRANCH 90°)



Size(mm)

90/63
110/56
110/90
160/110

EXPANSION SOCKET WITH EPDM RUBBER



Size(mm)

90
110
160
200

RING SEAL ADAPTOR WITH EPDM RUBBER



Size(mm)

50
110

FLANGE ADAPTOR



Size(mm)

110
160
200
250

CLEANOUT (CLOSING CAP)



Size(mm)

90
110
160
200

ELECTROFUSION SOCKET



Size(mm)

56
90
110
160
200
250
315
400

P-TRAP WITH CLEANOUT



Size(mm)

56
110

ACCESS COVER 45°



Size(mm)

110
160/110

ACCESS COVER 90°



Size(mm)

90
110
160
200

END CAP



Size(mm)

90
110
160
200
250
315

STAINLESS COUPLER



Size(mm)

56
90
110
160
200

ROHRFLEX UNIVERSAL WELDING PROCESS



Rohrflex supplies butt-welding fusion machines for diameters 56mm to 315mm. It is extremely convenient to use the machine as the pipes are lightweight and easily weldable to create an entirely leak-proof and odor-free drainage system.



Rohrflex supplies electrofusion machines for diameters 56mm to 315mm. It is an alternative to the butt-welding method and creates a fast, simple, and reliable connection.

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