



REHAU®

Unlimited Polymer Solutions



RAUTITAN PEX PLUMBING SYSTEM

Secure. Easier. Faster.





FLEXIBLE CROSS-LINKED POLYETHYLENE (PEX) SYSTEM WITH UNIQUE REHAU COMPRESSION SLEEVE JOINTING TECHNOLOGY For hot and cold water applications.

100%
leak-proof
joint

SECURE

Simple. Robust. Reliable.



RAUTITAN PIPES

RAUTITAN pipes are made from high density cross-linked polyethylene (PE-Xa). The cross linking process causes the individual polyethylene molecules to bond in a three-dimensional network creating a tough and durable pipe with superior:

- long-term stability
- high temperature resistance and
- high pressure resistance
- superior flexibility and strength.

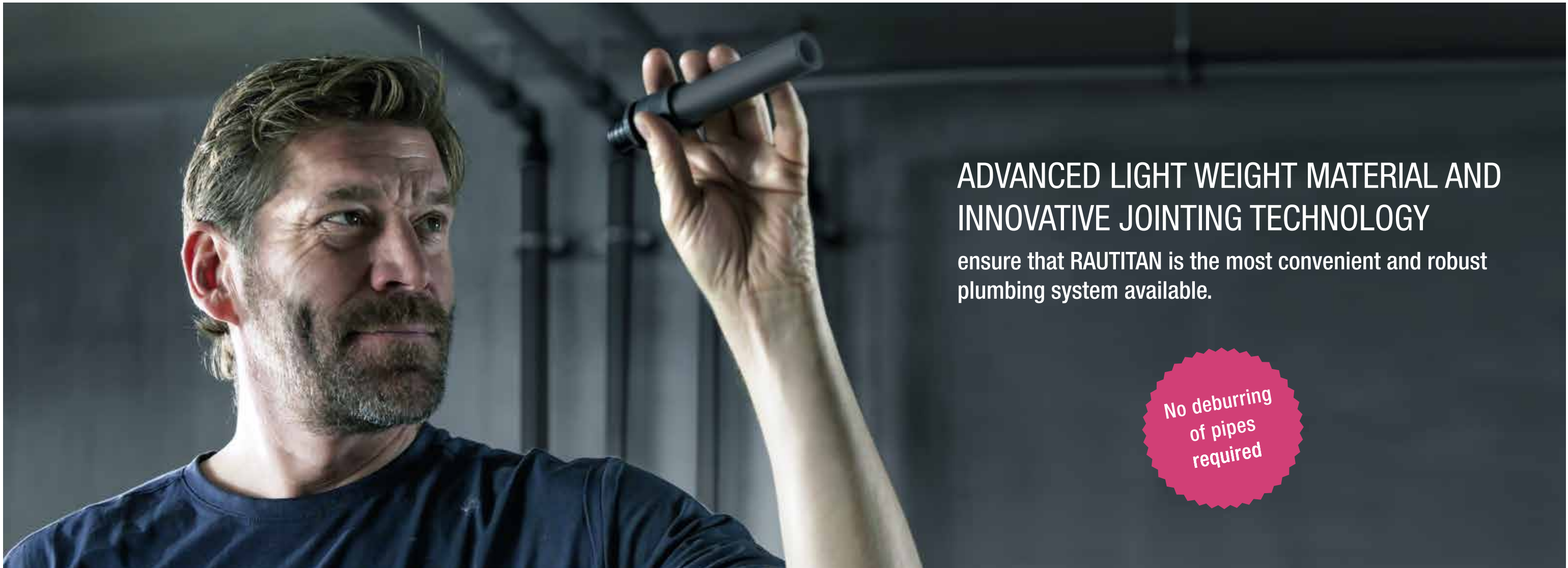
The external black PE-sheath blocks more than 99.9% of light transmission through the pipes to prevent the growth of algae within the plumbing system to maintain the system's hygiene.



The RAUTITAN system includes a single PN20 pipe system for both hot and cold water, which has been exposed in long-term tests at extreme temperature and pressure conditions to confirm its lifespan of over 50 years even for hot water application.

100% permanent leak-proof
Additional O-rings or other sealants, which can be weak points over the long-term, are not needed because the pipe itself functions as a sealant.

Pressure test up to 150 psi
The RAUTITAN compression sleeve joint is a simple, robust and reliable connection.



ADVANCED LIGHT WEIGHT MATERIAL AND INNOVATIVE JOINTING TECHNOLOGY

ensure that RAUTITAN is the most convenient and robust plumbing system available.

No deburring of pipes required

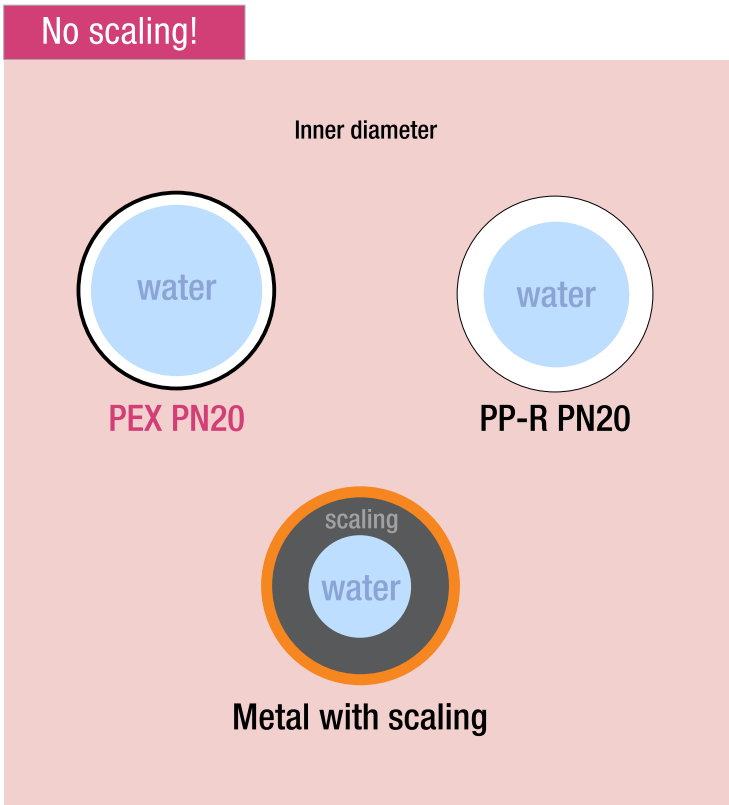
EASIER Engineered for your convenience



- RAUTITAN SYSTEM PROVIDES**
- Simple, fast and robust jointing technique
 - Up to 100m coiled pipe runs. No joint!
 - More than 30% less joints per installation
 - No waiting for cool down periods before pressurizing the system

One pipe for hot and cold
The RAUTITAN system includes a single PN20 pipe for both hot and cold water applications.

No welding, no brazing!
RAUTITAN's robust 'cold' compression sleeve jointing technology requires no brazing, no welding, no open flames or hot welding tools.



Due to corrosion and scaling resistant properties, the RAUTITAN system provides the highest standard of hygiene and hydraulic performance, today and in the future.

Reduce workmanship fault
RAUTITAN system can be installed in one single pipe run; no connections; 100% system security!

20% less wastage
RAUTITAN pipes can be cut exactly to the length of the required pipe run.

Sealed
without
O-ring

OFFERING ALL THE CONDITIONS
for hygienic drinking water distribution

FASTER
Save time, save cost



RAUTITAN PX fittings

For sizes 16mm to 40mm, non-threaded RAUTITAN fittings, PPSU (polyphenyl sulphone) and compression sleeves, PVDF (polyvinylidene fluoride).

RAUTITAN MX fittings

For sizes 50mm to 63mm high quality Dezincification resistant brass fittings

>30% lesser joints

RAUTITAN PE-Xa pipes give you the freedom to bend around corners and around existing services to complete the installation.

Up to 50% less labour

RAUTITAN's light weight materials and simple jointing process ensure it is a one man job.



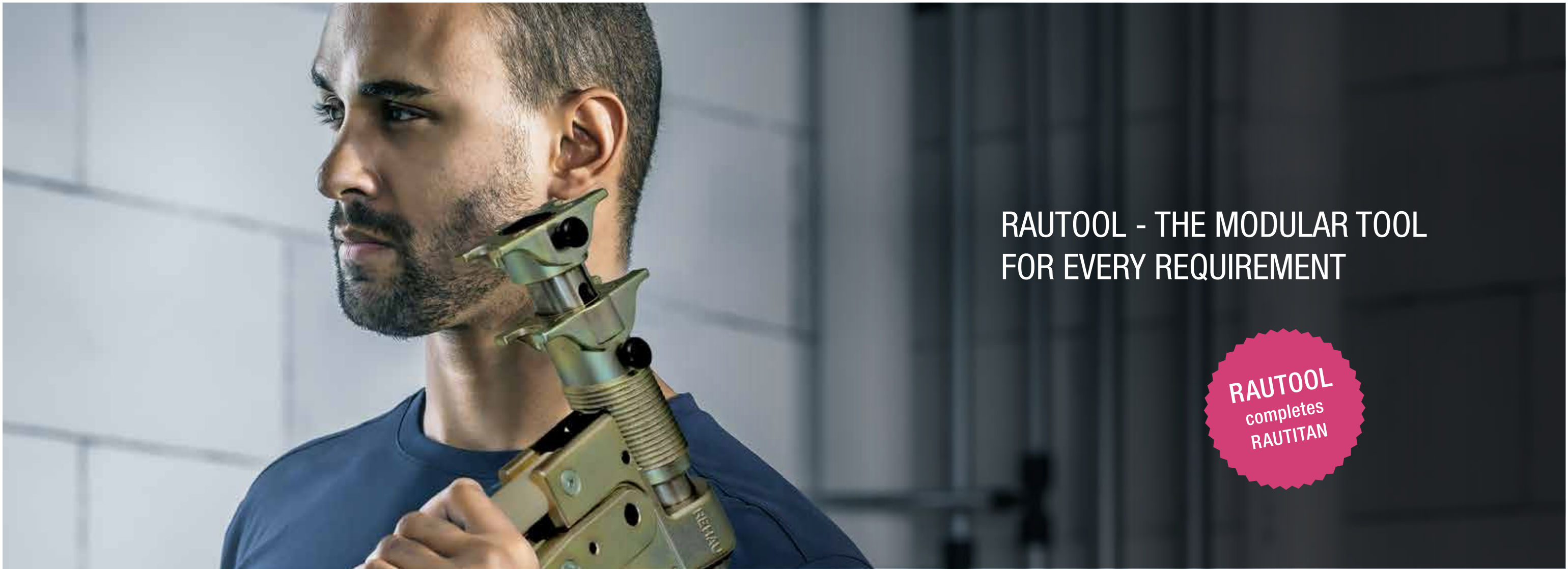
Install a valve with no threaded connection

RAUTITAN valves are featured with unique REHAU compression sleeve connection joints that can create a permanent seal to our RAUTITAN PEX pipes.



100% seamless connection

Unique PEX/PPR adaptors to avoid using threaded connection between the two systems.



RAUTOOL - THE MODULAR TOOL FOR EVERY REQUIREMENT

RAUTOOL
completes
RAUTITAN

TOOLS AND ACCESSORIES

Universal and professional

TWO EASY STEPS TO SECURITY

Making a 100% leak-proof joint has never been this easy. Utilized for over 30 years and across millions of connections REHAU guarantees a 100% permanent leak-proof joint in just two simple steps!



Only RAUTOOL assembly tools guarantee easy installation and fully leak-proof connections. Its compact construction simplifies handling and also makes it possible to install in the toughest construction sites. Available in a multitude of modular options, the RAUTOOL program can be tailored to the individual needs of each and every installer.

Simple mechanical design and robust materials ensure long-lasting performance, minimal tool maintenance and regular calibration.



RAUTOOL M1 16 - 40mm



RAUTOOL H2 16 - 40mm



RAUTOOL HG1 40 - 63mm



SPECIFICATION

Material:	-	PE-Xa
Colour (surface)	-	Black
Notch impact strength at 20°C	-	No fracture
Notch impact strength at -20°C	-	No fracture
Average coefficient of expansion		0.15
When laying with pipe support channel:		
- Size 16 - 40	mm/(mK)]	0.04
- Size 50 - 63		0.1
Thermal conductivity	W/(mK)]	0.35
Pipe roughness	[mm]	0.007
Operating pressure (maximum at 70°C)	[bar]	10
Operating temperature		
- Maximum	[°C]	90
- Minimum		-
Short-term maximum temperature (malfunction)	[°C]	100
Material constant C	-	12
Minimum bending radius without tools		
d = pipe diameter	-	8 x d
Minimum bending radius with pipe bend brackets		
d = pipe diameter	-	3 – 4 x d
Available sizes	[mm]	16 – 63

STANDARD AND CERTIFICATION

BS 6920
Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of water

BS 7291
Thermoplastics pipes and associated fittings for hot and cold water for domestic purposes and heating installations in buildings

BS EN 1982
Copper and copper alloys. Ingots and castings

BS EN 12163
Copper and copper alloys. Rod for general purposes

BS EN 12165
Copper and copper alloys - Wrought and unwrought forging stock

BS EN 12420
Copper and copper alloys. Forgings

DIN 1988
Codes of practice for drinking water installations (TRWI)

DIN 4102
Fire behaviour of building materials and components

DIN EN 13501
Fire classification of construction products and building elements

DIN EN 12164
Copper and copper alloys - Rod for free machining purposes

DIN EN 12168
Copper and copper alloys - Hollow rod for free machining purposes

DVGW W 291
Cleaning and disinfection of water distribution systems

DVGW W 534
Pipe connectors and connections in the drinking water installation

DVGW W 551
Drinking water heating and drinking water pipe systems

ISO 14001
Environment Management System (EMS) standard

ISO 7
Pipe threads where pressure-tight joints are not made on the threads

ISO 9001
Quality Management Systems

ISO 15875
Plastic piping systems for hot and cold water installations - crosslinked polyethylene (PE-X)

SS 375
Suitability of nonmetallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water

ISO 50001
Energy Management Systems

QUALITY AND CERTIFICATION

RAUTITAN meets international quality and regulatory standards, and is accredited by both international and national regulation bodies:



RAUTITAN WATER SERVICES PROJECT REFERENCES

Proven for more than 40 years



1 Australia, Federation Square
2 Austria, Power Tower
3 Bulgaria, Primoretz Grand Hotel and Spa

4 Hong Kong, Bel-Air 8
5 Hungary, Ramada Resort Aquaworld
6 Indonesia, JW Marriott Hotel

7 Malaysia, Traders Hotel

8 Netherlands, The Red Apple Apartment
9 Philippines, Discovery Primea
10 Russia, Moscow School of Management


11 Slovakia, Wellness Aquamarine
12 Singapore, W Hotel
13 South Africa, Radisson Blue Hotel

14 Ukraine, Hotel Park Inn by Radisson

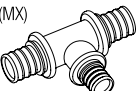
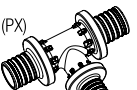

RAUTITAN WATER SERVICES

Product range

RAUTITAN pipes


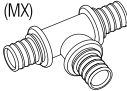

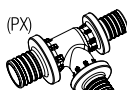
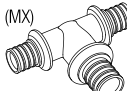
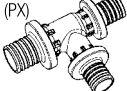

Description	Art. - No.	DN in mm
Pipe <small>(Available in coil or straight length)</small> 	139140-005	16 x 2.2 x 5M Lg
	139140-100	16 x 2.2 x 100M coil
	139150-005	20 x 2.8 x 5M Lg
	139150-100	20 x 2.8 x 100M coil
	139160-005	25 x 3.5 x 5M Lg
	139160-050	25 x 3.5 x 50M coil
	139170-005	32 x 4.4 x 5M Lg
	139170-050	32 x 4.4 x 50M coil
	136521-005	40 x 5.5 x 5M Lg
	136531-005	50 x 6.9 x 5M Lg
	136541-005	63 x 8.6 x 5M Lg

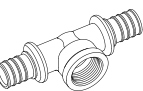
RAUTITAN components

Description	Art. - No.	DN in mm
T-piece, Reduced Centre  	160061-001	20 - 16 - 20 PX
	160062-001	25 - 16 - 25 PX
	160063-001	25 - 20 - 25 PX
	160064-001	32 - 16 - 32 PX
	160065-001	32 - 20 - 32 PX
	160066-001	32 - 25 - 32 PX
	160067-001	40 - 20 - 40 PX
	160068-001	40 - 25 - 40 PX
	160069-001	40 - 32 - 40 PX
	230348-001	50 - 20 - 50 MX
	230358-001	50 - 25 - 50 MX
	139792-001	50 - 32 - 50 MX
	137089-001	50 - 40 - 50 MX
	230328-001	63 - 20 - 63 MX
	230338-001	63 - 25 - 63 MX
	137175-001	63 - 32 - 63 MX
	137074-001	63 - 40 - 63 MX
	137084-001	63 - 50 - 63 MX
T-piece, Reduced End 	160071-001	20 - 20 - 16 PX
	160072-001	25 - 25 - 16 PX
	160073-001	25 - 25 - 20 PX
	160074-001	32 - 32 - 20 PX
	160075-001	32 - 32 - 25 PX



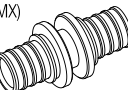
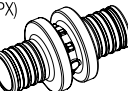
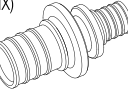
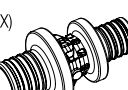
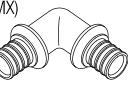
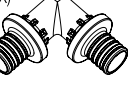
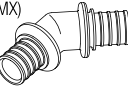
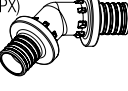
*Selling off

RAUTITAN components

Description	Art. - No.	DN in mm
T-piece, Wall Mounted 	138841-402	16 - Rp 1/2 - 16 MX
	138851-402	20 - Rp 1/2 - 20 MX
T-piece, Uniform  	160031-001	16 PX
	160032-001	20 PX
	160033-001	25 PX
	160034-001	32 PX
	160035-001	40 PX
	137155-001	50 MX
	137165-001	63 MX
T-piece, Reduced Centre and End 	160081-001	20 - 16 - 16 PX
	160082-001	25 - 16 - 16 PX
	160085-001	25 - 20 - 20 PX
	160086-001	32 - 20 - 20 PX
	160091-001	32 - 25 - 25 PX
	160092-001	40 - 32 - 32 PX
T-piece, Unequal Centre and End  	160103-001	20 - 25 - 16 PX
	160083-001	25 - 16 - 20 PX
	160084-001	25 - 20 - 16 PX
	160087-001	32 - 20 - 25 PX
	160089-001	32 - 25 - 20 PX
	137195-001*	50 - 32 - 40 MX
	137205-001*	63 - 32 - 50 MX
T-piece, Unequal Centre 	160101-001	16 - 20 - 16 PX
	160102-001	16 - 25 - 16 PX
	160104-001	20 - 25 - 20 PX
	160106-001	25 - 32 - 25 PX







T-piece, Outlet with female thread 	258206-002*	25 - Rp 3/4 - 25 MX
	138991-002*	32 - Rp 3/4 - 32 MX
	138981-002*	32 - Rp 1 - 32 MX

RAUTITAN components

Description	Art. - No.	DN in mm
Compression Sleeve Required for every compression joint  	160001-001	16 PX
	160002-001	20 PX
	160003-001	25 PX
	160004-001	32 PX
	160005-001	40 PX
	139771-002	50 MX
	139781-002	63 MX
Straight Coupling  	160011-001	16 PX
	160012-001	20 PX
	160013-001	25 PX
	160014-001	32 PX
	160015-001	40 PX
	139741-002	50 MX
	139751-002	63 MX
Reducing Coupling  	160041-001	20 - 16 PX
	160042-001	25 - 16 PX
	160043-001	25 - 20 PX
	160044-001	32 - 25 PX
	138018-001	40 - 25 MX
	160047-001	40 - 32 PX
	137863-001	50 - 32 MX
	137843-001	50 - 40 MX
	138019-001	63 - 40 MX
	137853-001	63 - 50 MX
Elbow 90°  	160021-001	16 PX
	160022-001	20 PX
	160023-001	25 PX
	160024-001	32 PX
	160025-001	40 PX
	139882-001	50 MX
	137873-001	63 MX
Elbow 45°  	160052-001	20 PX
	160053-001	25 PX
	160054-001	32 PX
	160055-001	40 PX
	137094-001	50 MX
	137104-001	63 MX

PX: Material: PPSU, Color: Black

RAUTITAN components

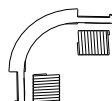
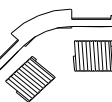


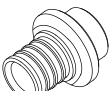


Description	Art. - No.	DN in mm
Elbow Adaptor-male thread 	139491-002	16 - R 1/2 MX
	139501-002	20 - R 1/2 MX
	139511-001	25 - R 3/4 MX
	137423-001*	32 - R 3/4 MX
	137433-001	32 - R 1 MX
Elbow Adaptor-female thread 	137295-001	16 - Rp 1/2 MX
	137124-001	16 - Rp 3/4 MX
	137305-001	20 - Rp 1/2 MX
	137134-001	20 - Rp 3/4 MX
Short Wall-mounted Elbow - female thread 	138461-405	16 - Rp 1/2 MX
	138471-405	20 - Rp 1/2 MX
	139191-405	20 - Rp 3/4 MX
	138591-405	25 - Rp 3/4 MX
Long Wall-mounted Elbow - female thread 	138441-405	16 - Rp 1/2 MX
	138451-405	20 - Rp 1/2 MX
BP Elbow - male thread 	138491-405*	20 - R 1/2 MX
BP Elbow - female thread with rectangular wall plate 	137083-401	16 - Rp 1/2 MX

MX: Material: DZR Brass, Color: Natural Brass

RAUTITAN components

Description	Art. - No.	DN in mm
Straight Connector, female thread 	259515-002	16 - Rp 1/2 MX
	259525-002	20 - Rp 1/2 MX
	138253-001	20 - Rp 3/4 MX
	139281-002	25 - Rp 1/2 MX
	259535-002	25 - Rp 3/4 MX
	139101-002	32 - Rp 3/4 MX
	139091-002	32 - Rp 1 MX
Straight Connector, male thread 	137955-001	16 - R 1/2 MX
	137965-001	16 - R 3/4 MX
	137985-001	20 - R 3/4 MX
	137995-001	20 - R 1 MX
	139181-002	25 - R 1/2 MX
	259505-002	25 - R 3/4 MX
	257336-002	25 - R 1 MX
	139081-002	32 - R 3/4 MX
	139051-002	32 - R 1 MX
	139691-002	40 - R 1-1/4 MX
	139711-002	50 - R 1-1/2 MX
	139721-002	63 - R 2 MX
Straight Tap Connector with gasket 	139551-002	16 - G 1/2 MX
	139561-002	20 - G 1/2 MX
	139571-002	20 - G 3/4 MX
	139912-001	25 - G 3/4 MX
	139932-001	32 - G 1 MX
	137164-001*	40 - G 2 MX
Clip-on Support Channel 3m/length 	138033-001	16
	138043-001	20
	138053-001	25
	138063-001	32
	138073-001	40
	138083-001	50
	138093-001	63

RAUTITAN components

Description	Art. - No.	DN in mm
Profile Bent Bracket 90° x 3D - with spring 	138881-002	16
	138891-002	20
	138351-002	25
	138641-002	32
	261153-001	32 (5D)
Profile Bent Bracket 45° x 3D - with spring 	139121-002	16
	139131-002	20
	138911-002	25
	138921-002	32
Profile Bent Bracket 90° x 5D - no spring 	258408-002	16
	258798-002	20
	257249-002	25
Profile Bent Bracket 45° x 5D - no spring 	265729-001	16
	268624-001	20
	268634-001	25
Stopper 	137793-001	16 MX
	137436-001	20 MX
REHAU Ball Valve 	215227-001	16
	215228-001	20
	215229-001	25
RAUTITAN Gate Valve 	208896-001	16
	215583-001	20
	215585-001	25
	215586-001	32
	215587-001	40

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We recommend that the suitability of any REHAU product for the intended application should be checked. Utilisation and processing of our products are beyond our control and are therefore exclusively your responsibility. In the event that a liability is nevertheless considered, any compensation will be limited to the value of the goods supplied by us and used by you.

Our warranty assumes consistent quality of our products in accordance with our specification and in accordance with our general conditions of sale.

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