



Drainage Pipes

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PMJ – the name for economy and reliability

PMJ-tec AG is a specialized Swiss manufacturer whose task is to be a partner and a guarantee for quality in the demanding field of the building industry. With our extensive production programme we have the capability of solving all our customers fastening problems. Our worldwide contacts keep us abreast off current technical know-how in production techniques, enabling us to meet the highest standards.

Our qualified staff's excellent product knowledge, along with the application of new technology in our production creates the base for our high standard, quality minded products. It is the aim of our company, through innovation and creativity, to satisfy the needs of our clients by finding an economical and reliable solution to their fastening problems.

For almost 30 years PMJ-tec AG (previously MAGE AG) has produced and distributed couplings for drainage pipes. Over the years we have managed to develop an unequalled coupling programme.

Meeting European industry standards and additional national specifications in conjunction with customer satisfaction are proof of the high quality of our NOMIC couplings. Should you require further information or need a solution to a specific fastening problem, please feel free to contact one of our application orientated sales people. We know PMJ-products – we know which products are right for you.



Certificate

SQS herewith certifies that the company named below has a management system which meets the requirements of the standard specified below.



PMJ-tec AG
(previously MAGE AG)
1791 Courtaman
Switzerland



Certified area

Whole Company

Field of activity

**Manufacturing and Distribution of
Fixing/Fastening Systems for Construction**

Standard

ISO 9001:2008 Quality Management System

Swiss Association for Quality and
Management Systems SQS
Bernstrasse 103, CH-3052 Zollikofen
Issue date: September 16, 2014

This SQS Certificate is valid up to
and including June 3, 2015
Scope number 17
Registration number 12946



X. Edelmann
X. Edelmann, President SQS



R. Glauser
R. Glauser, CEO SQS



Application range of NOMIC couplings

PMJ NOMIC couplings can be installed where a safe and durable connection of drainage pipes is required. The European norm DIN EN 877 applies to component parts, of cast iron pipelines for the building of drainage systems. The norm covers moreover function requests for all component parts including the connections. The PMJ NOMIC couplings conform fully to these specifications.

For all other NOMIC couplings which are not included in DIN EN 877, various other approvals and/or test reports exist. We also have suitable couplings for special applications such as bridge drainage systems or ventilation pipes.



Council of American Building Officials

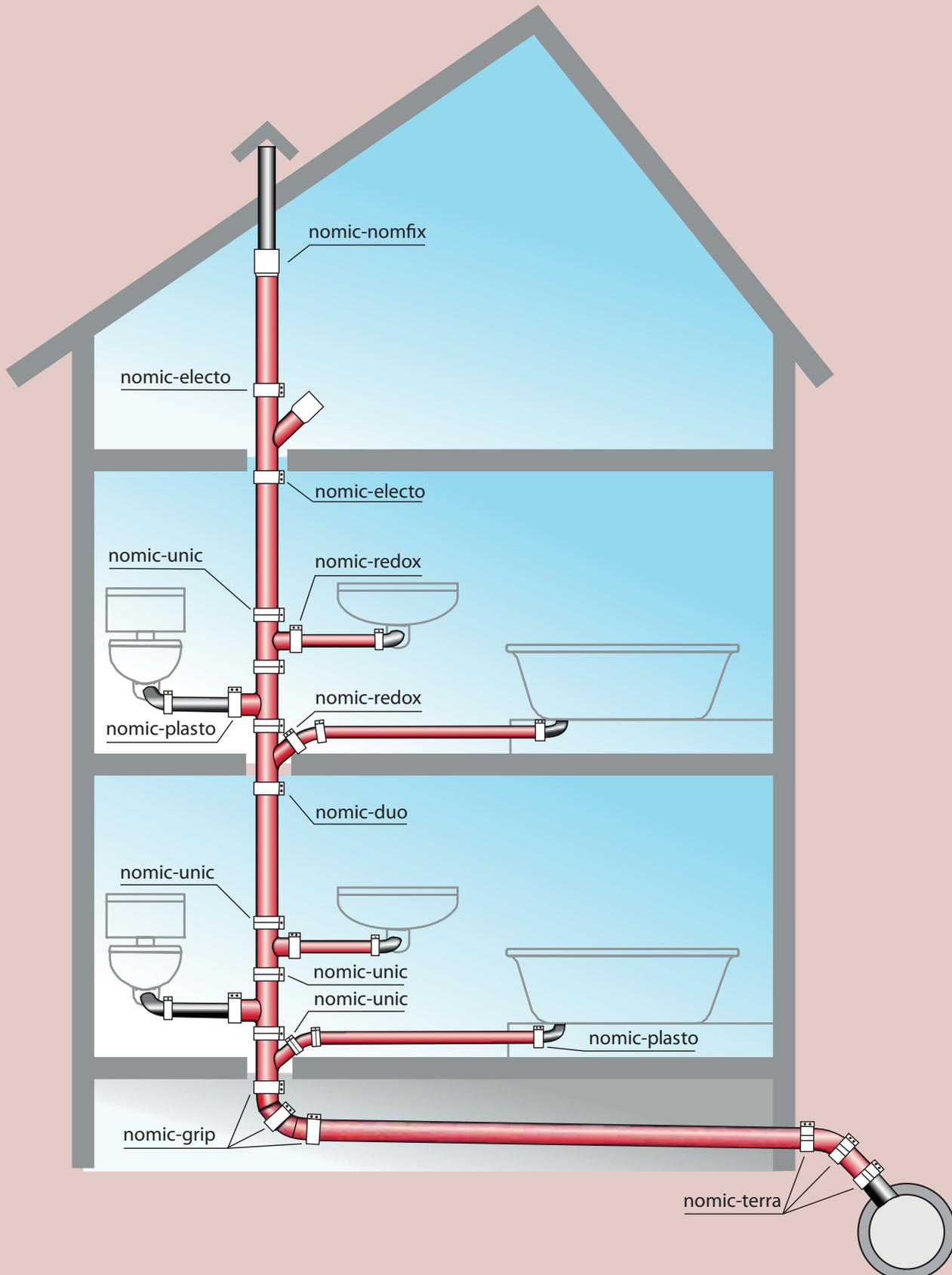


Approvals and certifications

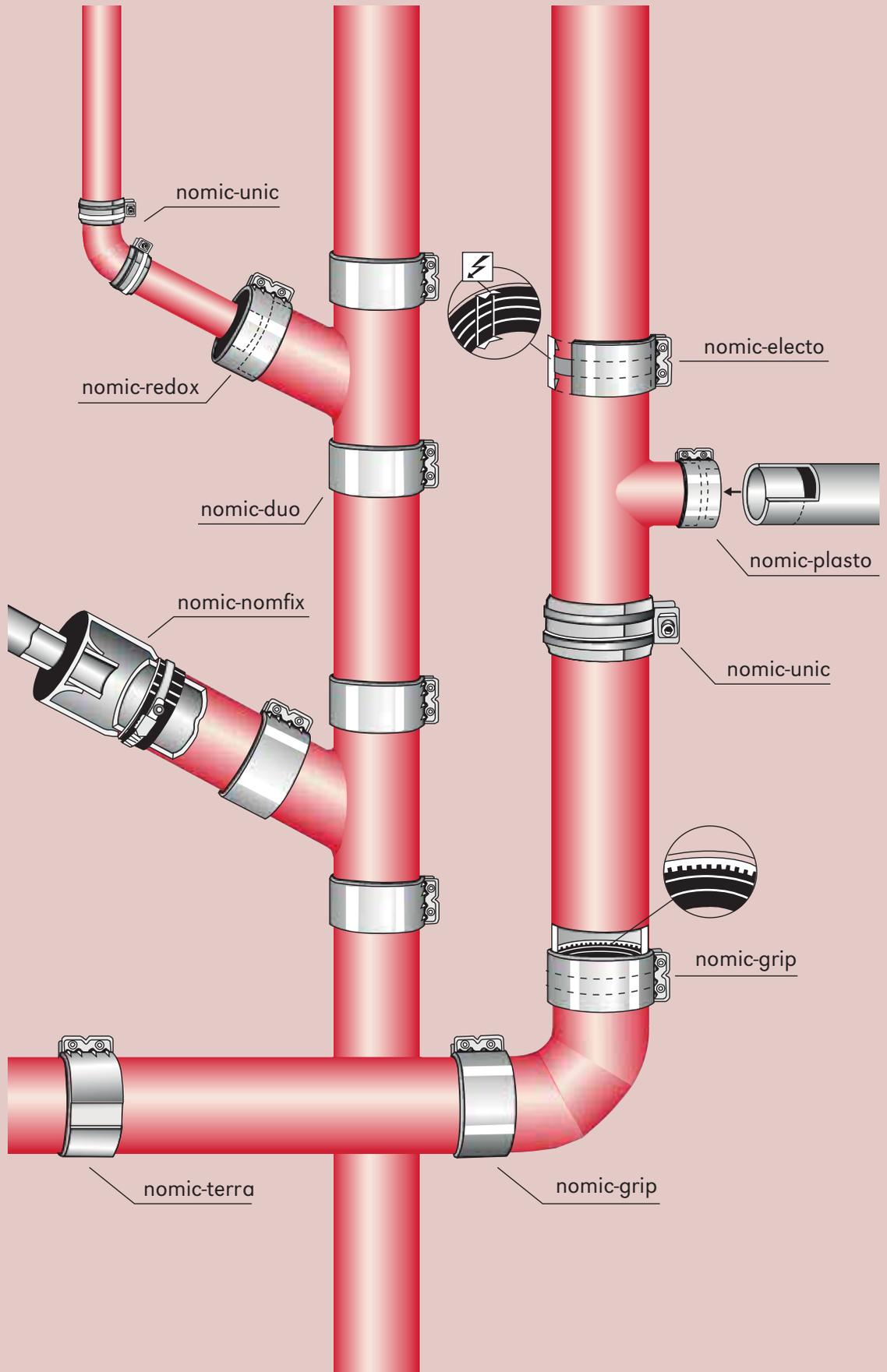
When you specify PMJ NOMIC couplings, you have the assurance of a high quality product, engineered with more than 30 years of knowledge of the fastener industry. In addition to a strict internal quality control underlying the PMJ NOMIC coupling system, we have obtained approvals and certifications through International Institutes and the Quality-Management-System accordant to ISO 9001:2008



Application examples



Application examples



Standard program overview for PMJ nomic-couplings

For cast-iron pipes

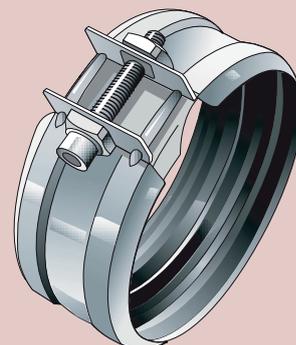
DN	outer pipe diameter		DUO	UNIC	GRIP	ELECTO
	min	max [mm]				
40	46,7	49,8	x	x	x	x
50	57,0	62,0	x	x	x	x
60	67,2	68,8	x			x
70	77,0	80,0	x	x	x	x
75	73,0	77,0	x		x	x
3"	82,7	87,3	x		x	x
80	83,0	85,0	x	x		
80	88,0	90,0	x		x	x
100	108,0	113,0	x	x	x	x
125	133,0	139,0	x	x	x	x
150	158,0	162,0	x	x	x	x
200	208,0	216,0	x		x	x
250	266,0	276,5	x			x
300	323,5	328,5	x			x

For fibre-cement pipes

DN	outer pipe diameter		DUO	UNIC	GRIP	ELECTO
	min	max [mm]				
50	64,0	67,0	x			
70	84,0	87,0	x			
100	116,0	119,0	x	x		
125	141,0	144,0	x			
150	168,0	171,0	x			
200	220,0	223,0	x			
250	270,0	273,0	x			
300	322,0	325,0	x			

In addition there are many different diameters for reduction and transition couplings.

nomic UNIC according to DIN EN 877



the new standard

NOMIC UNIC enables a quick, easy and thus economic mounting. The one-screw coupling consists of an AISI 430 T stainless steel shell and an EPDM rubber gasket. The gasket is resistant to boiling water. The nuts, bolts and plates fulfil the more stringent specifications for corrosion protection in accordance with DIN EN 877.

Neoprene-gaskets are available for pipes containing mineral oil waste water.

The delivery program for cast-iron sewage pipes

PMJ article no.	coupling shell	fixation parts	gasket	dimension
3371	AISI 430 T	zinc plated	EPDM	DN 50-150

installation screw torque: min 14 Nm – max 16 Nm

certified performance: 0 to 5¹ bar

nomic DUO

according to DIN EN 877



the classic coupling

NOMIC DUO our classic coupling – millions already installed – typified by its still unequalled technical advantages:

All around rim – even in the area between the fixation parts, the rubber gasket is protected against mechanical damage and harmful influence of UV-radiation and ozone. The fixation parts fulfil the increased requests to the corrosion protection in accordance to DIN EN 877.

High sealing lips, allowing easy installation of the complete coupling and covering even large pipe tolerances.

The EPDM gasket is resistant to boiling water.

No welding points in tension loaded areas.

An extra thick center lip prevents the transmission of structure-born noise.

Ready-to-use unit – no lose pieces.

A very quick and economical installation with the revolutionary NOMICDUOMAT tool.

The delivery programme for cast-iron¹ sewage pipes

PMJ article no.	coupling shell	fixation parts	gasket	dimension
3171	AISI 430 T	zinc-plated	EPDM ²	DN 40-300
3173	AISI 304	AISI 304	EPDM ²	DN 40-300
3174	AISI 316	AISI 316	EPDM ²	DN 40-300

installation screw torque: min 3,5 Nm – max 5,5 Nm

certified performance: 0 to 5³ bar

1. Other pipe-types on request
 2. Neoprene-gaskets on request
 3. Waterproof to the DIN EN 877 test standards: see table p. 16

nomic GRIP

according to DIN EN 877



strength and safety

NOMIC GRIP incorporates a coupling and grip rim in one product.

This combination makes strong pipe connections that withstand an inner pressure of up to 3 bar¹ without an additional grip rim.

The inserted cold-formed stainless-steel grip ring helps prevent the pipes from slipping out of the coupling.

The security performance has been documented in test certificate no.: 22 05177 88-02 issued by the governmental material testing authority of Nordrhein Westfalen.

Because of the isolating performance of the raised central rubber ridge, the NOMIC GRIP does not show higher sound transmission than conventional couplings.

The delivery programme for cast-iron sewage pipes

PMJ article no.	coupling shell	fixation parts	gasket	dimension
3176	AISI 430 T	zinc-plated	EPDM	DN 50-200

installation screw torque: min 7 Nm – max 9 Nm

1. Axial load resistance
 DN 50 up to DN 100 = 3 bar
 DN 125 = 1,5 bar
 DN 150 up to DN 200 = 1,0 bar

nomic ELECTO

according to DIN EN 877



the classic coupling

NOMIC ELECTO was developed to meet the requirements of British standard BS 6087, and guarantees the electrical continuity between two cast-iron pipes so that the drainage pipes can be used for earthing.

NOMIC ELECTO has been certified by the British Board of Agr ment (BBA).

The delivery programme for cast-iron sewage pipes

PMJ article no.	coupling shell	fixation parts	gasket	dimension
3140	AISI 430 T	zinc-plated	EPDM ¹	DN 40-300
3141	AISI 316	AISI 316	EPDM ¹	DN 40-300
3142	AISI 430 T	zinc plated	EPDM	DN 40-300
3143	AISI 430 T	AISI 304	EPDM ¹	DN 40-300
3144	AISI 430 T	AISI 316	EPDM ¹	DN 40-300
3145	AISI 304	AISI 304	EPDM ¹	DN 40-300
3146	AISI 304	AISI 316	EPDM ¹	DN 40-300

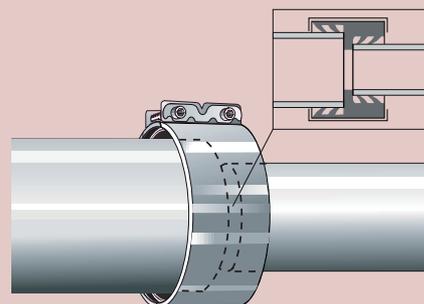
installation screw torque: min 7 Nm – max 9 Nm

certified performance: 0 to 5² bar

1. Neoprene gasket on request
 2. Waterproof to the DIN EN 877 test standards: see table p. 16

nomic REDOX

according to DIN EN 877



reduction and coupling all in one

The pipe diameter reduction is done directly through the coupling.

These special reduction couplings eliminate the need for a cast-iron fitting and an additional coupling, thus saving both time and material.

A summary of the Nomic Redox programme

PMJ article no.	coupling shell	fixation parts	gasket
3177	AISI 430 T	zinc plated	EPDM
on request	AISI 304	AISI 304	EPDM
on request	AISI 316	AISI 316	EPDM

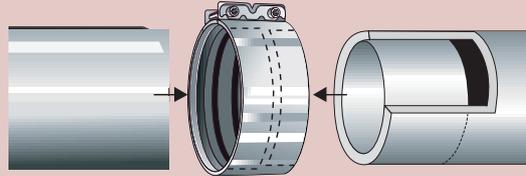
The delivery programme

DN / DN	outer pipe diameter pipe 1 up – to [mm]	outer pipe diameter pipe 2 up – to in mm
56 / 50	54,0 – 58,0	64,0 – 67,0
50 / 70	48,0 – 52,0	84,0 – 87,0
50 / 70	57,0 – 62,0	77,0 – 80,0
50 / 75	57,0 – 62,0	73,0 – 77,0
50 / 100	57,0 – 62,0	108,0 – 113,0
54 / 70	52,0 – 56,0	77,0 – 80,0
54 / 75	52,0 – 56,0	73,0 – 77,0
56 / 70	54,0 – 58,0	84,0 – 87,0
60 / 80	67,2 – 68,8	88,0 – 90,0
63 / 70	61,0 – 65,0	84,0 – 87,0
70 / 100	77,0 – 80,0	108,0 – 113,0
70 / 100	84,0 – 87,0	116,0 – 119,0
75 / 70	73,0 – 77,0	84,0 – 87,0
75 / 83	73,0 – 77,0	81,5 – 84,5
75 / 100	73,0 – 77,0	108,0 – 113,0
80 / 90	88,0 – 92,0	97,0 – 100,0
80 / 100	88,0 – 90,0	108,0 – 113,0
90 / 100	88,0 – 92,0	116,0 – 119,0
100 / 110	116,0 – 119,0	108,0 – 113,0
100 / 125	108,0 – 113,0	133,0 – 139,0
100 / 125	116,0 – 119,0	141,0 – 144,0
125 / 125	123,0 – 127,0	141,0 – 144,0
135 / 125	133,0 – 139,0	141,0 – 144,0
150 / 100	158,0 – 162,0	108,0 – 113,0

installation screw torque: min 3,5 Nm – max 5,5 Nm

certified performance: 0 to 0,5¹ bar

nomic PLASTO according to DIN EN 877



PE – pipes support

The easiest and safest way to join PE-pipes and both cast iron pipes and pipes of other materials.

NOMIC PLASTO consists of a conical stainless steel support ring and a reducer gasket inserted into a NOMIC DUO coupling.

The stainless steel ring is inserted into the plastic pipe to avoid compressing and damaging the plastic pipe during the installation and ensures an optimal gripping force.

The delivery programme

PMJ article no.	support ring for PE-pipe with outer pipe diameter [mm]	PMJ article no. to cast-iron pipe	NOMIC DUO to join PE-pipe
3159	50,0	3150	DN 40
	56,0		DN 50
	63,0		DN 70
	75,0		DN 80
	90,0		DN 100
	110,0		DN 100
	125,0		DN 125
	160,0		DN 150

Connections from PE-pipes to other pipe materials are available on request

installation screw torque: min 3,5 Nm – max 5,5 Nm

certified performance: 0 to 0,5¹ bar

nomic NOMFIX



connections with other pipe materials

PMJ NOMFIX is a flexible transition coupling made from EPDM with a zinc-plated hose-clip.

PMJ NOMFIX allows pipes made of different materials (PVC, steel, copper etc.) to be connected with cast-iron pipes. A cone shaped inner closing lip allows a wide range of pipe diameters to be connected.

PMJ NOMFIX can also be used as an end fastener.

The delivery programme

PMJ article no.	dimension
3410	DN 50
	DN 70
	DN 100
	DN 125

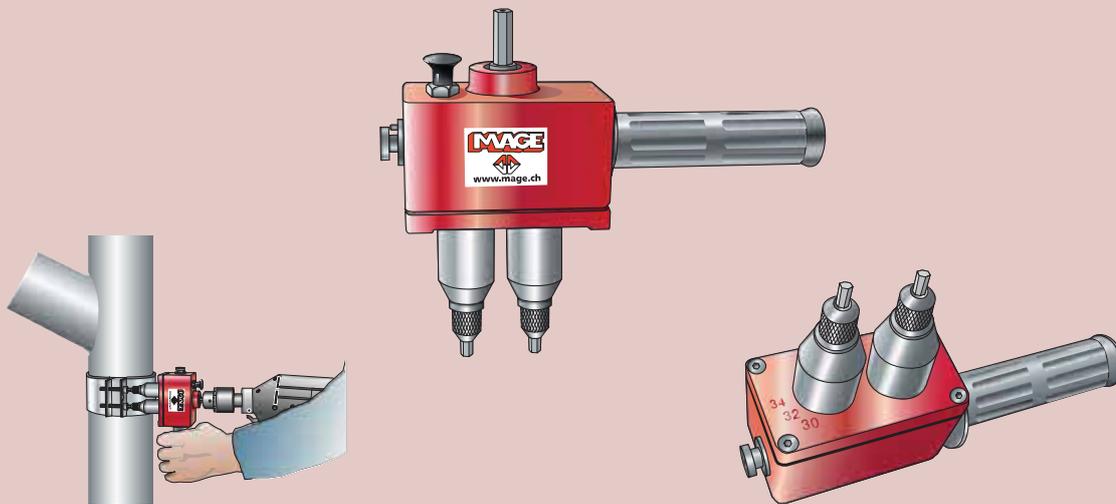
certified performance:

0 to 0,5 bar

Insatallation instructions

Push the NOMIC NOMFIX sleeve with the loose hose-clip against the stop on the pipe, then secure to the pipe by tightening the hose-clip. Cut out the pre-gooved face of the sleeve with a suitable knife, (take care not to cut too deeply) to suit the outside diameter of the connecting pipe. Apply a little bit lubricant to the end of the connecting pipe, and insert into the NOMIC NOMFIX..

nomic DUOMAT



The NOMIC DUOMAT tool significantly reduces the installation time of all two-screw NOMIC couplings by up to 70 %. Both screws are tightened simultaneously with two independent safety clutches ensuring the correct torque, irrespective of the pipe tolerances. It is adjustable for all couplings from DN 40 to DN 300.

PMJ article no.	torque setting [Nm]	suitable for	bit size [mm]	dimension
3900/45	4,5 to 6,5	all NOMIC two srew couplings	allen 5	DN 40-300
3900/79	7,0 to 9,0	all NOMIC two srew couplings	allen 5	DN 40-300

Warranty

PMJ guarantee 6 month for each DUOMAT tool with the exception of the drive bits. Within this period we will repair or replace the tool free of charge.

Installation instructions

All PMJ NOMIC couplings (UNIC, DUO, GRIP, ELECTO, REDOX) are delivered pre-assembled and can be installed onto the pipe end without prior assembly.

The couplings are mounted onto the pipe-end or fitting. Afterwards the next pipe-end or fitting is inserted from the other side.



The bolts can be fastened with a torque wrench or with an electric screwgun. Our special Duomat tool fits onto standard screwguns and allows you to significantly improve the installation efficiency by tightening both screws simultaneously. Two separate safety clutches ensure the correct fastening torque independent of the pipe tolerances.



The NOMIC PLASTO differ for installation in only one point. At first the support ring has to be pushed into the PE-pipe (without soap). The ring has to be level with the PE-pipe-end. Afterwards installation is the same as for the other couplings.

Push the NOMIC NOMFIX sleeve with the loose hose-clip against the stop on the pipe, then secure to the pipe by tightening the hose-clip. Cut out the pre-grooved face of the sleeve with a suitable knife, (take care not to cut too deeply) to suit the outside diameter of the connecting pipe. Apply a little bit lubricant to the end of the connecting pipe, and insert into the NOMIC NOMFIX..

Waterproof performance requirements according to DIN EN 877

Test conditions	hydrostatic test pressure [bar]			
	DN < DN 200		DN ≥ DN 200	
	inside	outside	inside	outside
a) aligned	0 to 5 ¹	0 to 0,5 ^{2,3}	0 to 3 ¹	0 to 0,5 ^{2,3}
b) bent	0 to 5 ¹		0 to 3 ¹	
c) under shear load	0 to 1 ^{1,2}		0 to 1 ^{1,2}	

1. 0 bar to 0,5 bar Water pressure for connections which are exposed to limited pressure;
0 bar to 0,1 bar Water pressure for joints to sanitary equipment (e.g. WC, lavatory)

2. gaskets for below ground installation only

3. not applicable for nominal diameters less than DN 100 and not for joints to sanitary equipment (e.g. WC, lavatory)

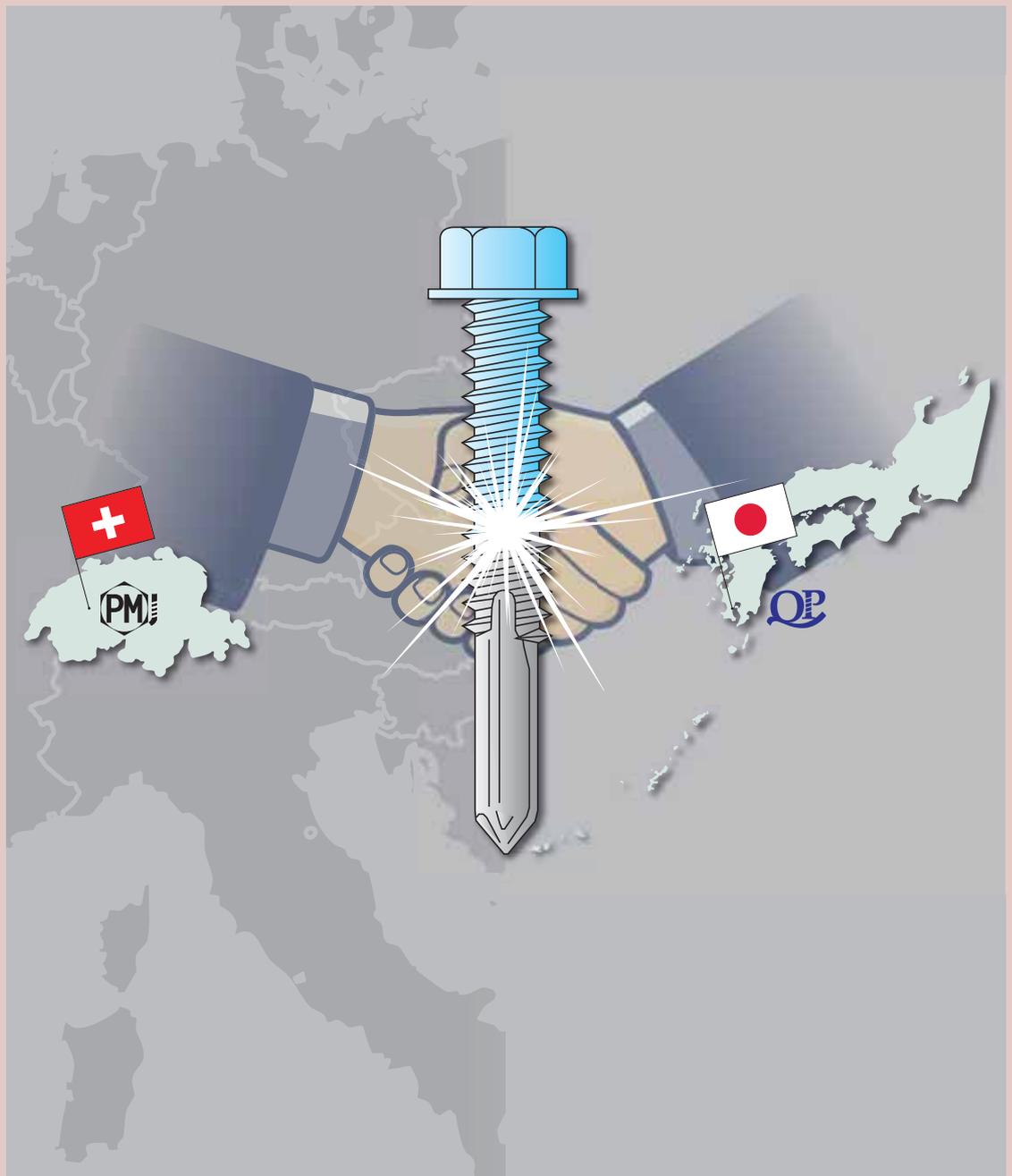
note: 1 bar = 100 KPa = 0,1 MPa

The pressure tests are conducted with axially restrained pipes

In recent years PMJ has invested heavily in licensed production of piasta bimetal drillscrews in very close cooperation with our Japanese license-partners, QP Fastening Works Ltd, whose founder Katsumi SHINJO originally patented his design for welded bimetal drillscrews in 1989.

The strength of the companies' relationship is emphasised by the PMJ corporate logo:

- PM is our well-known head-marking for piasta bimetal drillscrews as registered with International Approval authorities, and J is the first letter of the family name of the owner and CEO Mark Jones.
- The Swiss & Japanese flags signify the two factory locations for piasta bimetal drillscrews, and the close cooperation that PMJ has with our license partners.



Project References

PMJ has proven their product quality and supply reliability through numerous international prestige projects:



Hospital Walsgrave, Great Britain



Hospital Norfolk, Great Britain



Millenium Stadium, Great Britain

Please ask for these catalogues.

Our policy of continuing product development and improvement, necessitates that we reserve the right to modify designs shown in our catalogue without prior notice.

Drainage Pipes



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Application fields

Roofing & Cladding
Rainscreen Cladding
Flat Roofing
Curtain Walling
Drainage Pipes

