

The connection for all pipe diameters
Restraint 2" - 24"

MULTI/JOINT[®] 3000 Plus



MULTI/JOINT® 3000 Plus

In your daily work you may encounter pipe systems of various material in the ground. You will need to connect these with new pipe materials and preferably have a restraint joint. Well known jointing methods, such as collars, flanging, welding and the use of thrust blocks can be very time consuming. Would you prefer to work fast and reduce costs? The reliable MULTI/JOINT® 3000 Plus system is your answer! Our wide range fittings allow you to quickly make a restraint connection between all pipe materials, without special tools!



Wide range restraint fittings 2" up to 24"

Unique sealing system

The MULTI/JOINT® 3000 Plus system comprises wide range fittings, flange adaptors, reduction pieces and end caps of ductile iron in the ranges 2" - 24". Thanks to the unique wide range sealing system all fittings can be made restraint as long as the nominal diameters are the same. All you need to know is the outside diameter of the pipe, the medium and the working pressure.

Proven quality

The MULTI/JOINT® 3000 Plus system has a range up to 1.693" and connects pipes from 1.811" - 25.078" (stepless up to 12.204"). The high quality restraint fittings are suitable for applications in water up to 232 psi. The MULTI/JOINT® system has earned its reputation for quality on the international market over the past 25 years.

Save time and stock

The MULTI/JOINT® 3000 Plus fittings can basically be installed under all conditions and are easy to install. There is no need for special tools which saves you a lot of time during installation. Thanks to the "one size fits all" principle you can also save on your stock costs.

Fields of application

- Maintenance and repair
- Water distribution
- Water transport
- Wastewater
- Industrial applications



Your benefits

- Save installation time and stock
- One piece, stab-fit installation, pull out resistant
- Accommodates 16 degrees of angularity (8 degrees on each end)
- No need for thrust blocks
- Suitable for all pipe materials, such as (D) CI, AC, PE, PVC(O) and (stainless) steel
- Reusable
- Proven track record for more than 25 years
- Durable and corrosion proof
- Applicable for under and aboveground use
- Maintenance-free connections

MULTI/JOINT® 3000 Plus because:

- the MULTI/JOINT® 3000 Plus fittings have **an angularity of $\pm 8^\circ$ per socket end**; for a coupling this means a total of maximum 16° angularity
- the MULTI/JOINT® 3000 Plus fittings have **easily accessible misaligned bolts**. Installers can easily assess the correctness of their own installation in the trench
- the MULTI/JOINT® 3000 Plus fittings are **supplied with separate flange drillings for AWWA C110 (ANSI B16.1 125 LB)**
- **the technical life expectancy** of all the MULTI/JOINT® 3000 Plus products **is 50 years**
- the MULTI/JOINT® 3000 Plus is **a proven quality connection for more than 25 years**
- the MULTI/JOINT® 3000 Plus has **an internationally proven track record**
- to work clean, safe and durable all the MULTI/JOINT® 3000 Plus fittings are **hygiene protected** to prevent them from being contaminated or damaged

Unique sealing system, a reliable connection

When the quality standard is high, you need a reliable connection. The MULTI/JOINT® 3000 Plus system meets the demands and is suitable for applications in water. The uniqueness of the system lies in the sealing which consists of a flexible ring (Uni/Fiks ring) which consists of plastic segments and a rubber sealing ring (EPDM). The Uni/Fiks ring is supplied with stainless steel grippers which makes the MULTI/JOINT® 3000 Plus restraint on all types of pipe materials.



Certified to
NSF/ANSI 61

Uni/Fiks ring

Varioseal:

EPDM rubber gasket
(NSF 61)

Body:

ductile iron ASTM A536 grade 65-45-12
with Resicoat® epoxy powder coating
type RT 9000 R4

Nuts:

stainless steel AISI 304
galvanised and passivated
or stainless steel AISI 316
galvanised and passivated

Bolts:

stainless steel AISI 304 Lubo coated
or stainless steel AISI 316 Lubo coated





Easy installation

Uni/Fiks ring

The Uni/Fiks ring is a combination of a plastic ring, consisting of plastic segments, with a thin rubber sealing (Varioseal). This rubber sealing (EPDM or optional NBR) is a reliable solution for water applications. Stainless steel grippers (Uni/Fiksers) are placed in the Uni/Fiks ring, which make the sealing system restraint. The Uni/Fiks ring with the Uni/Fiksers makes a restraint connection up to an impressive 232 psi for water on rigid and plastic pipes.

Progressive sealing and gripping mechanism

The plastic segments in the ring sizes 2" – 5" consist of one part, made of POM. Furthermore the design of the ring enables large range coverage in outside diameters. The plastic segments in the ring sizes 6" – 24" consist of two parts; the wedge and the tople. The wedge is made of POM and is in contact with the pipe material. The tople, made of polyamide, ensures the integrity of the ring. This combination results in a progressive sealing and gripping mechanism. In the ring sizes 17" – 24" a clip has been added to fixate the ring in the body of the fitting ensuring easy installation with no interference.

Uni/Fikser

The Uni/Fiksers ensure optimal restraint both on rigid pipe materials and on plastic pipes, without compromise.

Easy installation and reuse

The long body of the MULTI/JOINT® 3000 Plus fittings offers a large insertion depth. This large installation length makes the installation easy, as you can use this length as desired. Moreover, the fittings are supplied with a clear installation manual. Since the fittings can easily be deinstalled, the system is also suitable for temporary installation after which multiple reuse is possible.

Angularity

The MULTI/JOINT® 3000 Plus system has a nominal angularity of 8° per socket end. For a coupling this means a nominal angularity of maximum 16°. The angularity ensures flexibility during and after installation. The flexibility allows the pipe to move in the fitting after installation without compromising the functioning. This to compensate for differential ground settlement after the trench is backfilled.

Uni/Fikser:

stainless steel AISI 316

Clamp ring:

ductile iron ASTM A536 grade 65-45-12
with Resicoat® epoxy powder coating
type RT 9000 R4

Hygiene protection

Ensures the fitting stays
clean from production
to point of use







*(cap in the picture
2" - 16")*



Washer:

stainless steel AISI 304
or stainless steel AISI 316

One complete system

Model			Type
	Coupling	restraint	3007
	Reduced coupling	restraint	3107
	Flange adaptor	restraint	3057
	Reduced flange adaptor	restraint	3157
	End cap blind	restraint	3207 blind
	End cap 2" threaded	restraint	3207 2" threaded



Long life expectancy

The ductile iron MULTI/JOINT® 3000 Plus products are supplied with a corrosion proof fusion bonded Resicoat® epoxy powder coating. This combination extends the life expectancy significantly.

The fittings are maintenance-free and have a designed life expectancy of 50 years. This is a clear advantage; after all, you want to be able to guarantee a constant supply of water to the end user and prevent renewed maintenance and repair.



Size (inch)	Range (inch)	Working pressure*
2"	1.811 - 2.795	232 psi
2 ½"	2.480 - 3.543	232 psi
3"	3.307 - 4.133	232 psi
4"	4.094 - 5.196	232 psi
5"	5.196 - 6.102	232 psi
6"	6.062 - 7.559	232 psi
8"	7.559 - 9.133	232 psi
9"	9.050 - 10.551	232 psi
10"	10.500 - 12.204	232 psi
12"	12.401 - 14.015	232 psi
14"	13.858 - 15.472	150 psi
16"	15.433 - 17.047	150 psi
17"	17.000 - 18.267	150 psi
18"	17.716 - 18.976	150 psi
19"	18.937 - 20.196	150 psi
20"	19.685 - 20.944	150 psi
22"	21.574 - 22.834	150 psi
24"	23.818 - 25.078	150 psi

* restraint pressures, pull out resistant

+ Durable and reliable connections for a quick, safe and simple repair solution

Technical specifications

Specifications

Body	Ductile iron in accordance with ASTM A536 grade 65-45-12.
Clamp ring	Ductile iron in accordance with ASTM A536 grade 65-45-12.
Coating	Resicoat® epoxy powder coating, type RT 9000 R4, NSF 61 approved. Colour red (RAL 3003). Minimum layer thickness 10 mil, in accordance with AWWA C116/A21.16-15.
Varioseal rubber gasket	Potable water: EPDM, NSF 61 approved. NBR is optional.
Uni/Fiks ring	POM (polyoxymethylene) and/or glass fibre filled Polyamide.
Uni/Fiksers	Stainless steel.
Bolts and nuts	Stainless steel AISI 304 or stainless steel AISI 316. Bolts are Lubo coated, nuts are galvanised and passivated to prevent galling.
Washers	Stainless steel AISI 304 or stainless steel AISI 316.
Flanges	Drilling pattern in accordance with AWWA C110 or patterns PN16/PN10 in accordance with EN1092-2.
Working temperature	23°F to 122°F
Working pressure*	Restraint: up to 232 psi water. Non restraint: up to 362 psi water (external fixation of pipes needed.) * For details see user manual or contact your supplier.
Certificates	NSF 61.
Standards	AWWA C219-11, AWWA C111/A21.11-12, AWWA C153/A21.53-11, RMDCS 02511, NSF 61, ASTM F1476-07(2013), AWWA C116/A21.16-15.

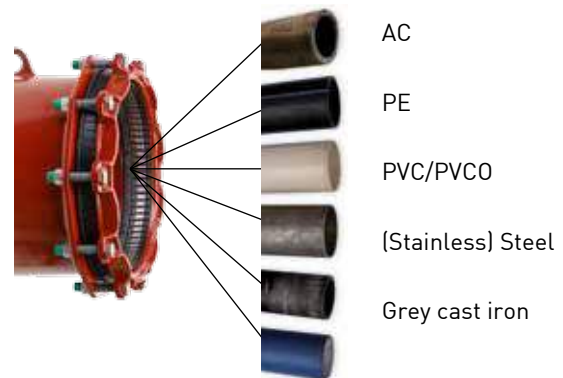


Insert stiffener

In case of connecting PE pipes always install an insert stiffener. In case of connecting PVC pipes install an insert stiffener if the wall thickness is smaller than SDR21. C900 no insert is needed.



Suitable for all materials



Nominal angularity per socket end 8°



Based on the middle of the range

Sealing system



Contact information

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