

The connection for all pipe diameters  
Restraint 2" - 34"

# MULTI/JOINT® 3000 Plus



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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 up to 34"

### Unique sealing system

The MULTI/JOINT® 3000 Plus system comprises wide range fittings and reduction pieces of ductile iron in the ranges 2" - 34". 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 connects pipes with outer diameters 1.811" - 34.212". 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 for more than 30 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 and grips all" principle you can also save on your stock costs.

### Fields of application

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



## 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 bolts** and can be mounted **without special tools**.
- 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 **30 years**
- the MULTI/JOINT® 3000 Plus has an **internationally proven track record**
- the MULTI/JOINT® 3000 Plus fittings are **supplied with hygiene protection covers** to prevent them from being contaminated or damaged

## Your benefits

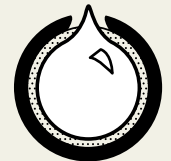
- Save installation time and stock
- One piece, stab-fit installation
- Accommodates 16 degrees of angularity (8 degrees on each end)
- No need for thrust blocks
- Suitable for all pipe materials, such as (D)CI, AC, PE, PVC0 and (stainless) steel
- Reusable
- Proven track record more than 30 years
- Durable and corrosion proof
- Applicable for under and aboveground use
- Maintenance-free connection

# 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/Fleks ring or Uni/Fiks ring) which consists of plastic segments and a rubber sealing ring (EPDM or NBR). The Uni/Fiks version is supplied with metal grippers which makes the MULTI/JOINT® 3000 Plus restraint on all types of pipe materials.



Certified to  
NSF/ANSI 61



RAL GÜTEZEICHEN



Uni/Fiks ring

Uni/Fikser:  
stainless steel  
AISI 316

Varioseal:  
rubber gasket  
(EPDM or NBR)

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

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

Hygiene protection:  
Ensures the fitting stays  
clean from production  
to point of use  
(cap in the picture: 2" - 16")



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

Washer:  
stainless steel AISI 304  
or stainless steel AISI 316



### Public Works Region of Peel, Canada

"MULTI/JOINT" has been used for DI/CI to PVC and HDPE to PVC. It's been very useful for us, great product."

Frank Pugliese P.ENG.  
Project Manager, Water Division  
Transmission & Distribution



### Storm & Sanitary Sewers City of Kitchener

"Because we were dealing with an HDPE pipe and the damaged pipe was to be replaced by HDPE as well, fusion would normally be the way to make the connection. However, with all of the wastewater in the trench and the speed that was required to repair the leakage, electro- or butt fusion was not an option.

It would take too much time to get a dry working trench. The obvious solution in this situation was the MULTI/JOINT® 3000 Plus coupling."

Bryan Dubrick  
Supervisor of Storm & Sanitary Sewers

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

# Easy installation

## Uni/Fleks ring

The Uni/Fleks ring is a combination of a plastic ring, consisting of plastic segments, with a thin rubber sealing (Varioseal). This rubber sealing (available both in EPDM and NBR) is a reliable solution for water applications.

When metal grippers (Uni/Fiksers) are placed in the Uni/Fleks ring, the sealing system is restraint. The Uni/Fleks ring with the Uni/Fiksers makes a restraint connection up to an impressive 232 psi for water, both 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" – 34" consist of two parts; the wedge and the topple. The wedge is made of POM and is in contact with the pipe material. The topple, made of polyamide, ensures the integrity of the ring. This combination results in a progressive sealing and gripping mechanism. In the ring sizes 17" – 34" 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 relatively 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.

# One complete system



## Couplings

Size (Inch)	Part number	Pipe OD Range (inch)	Pipe OD Range (mm)	Working pressure
2"	709305610	1.811 - 2.795	46 - 71	232 psi
2½"	709305612	2.480 - 3.543	63 - 90	232 psi
3"	709305614	3.307 - 4.133	84 - 105	232 psi
4"	709305616	4.094 - 5.196	104 - 132	232 psi
5"	709305618	5.196 - 6.102	132 - 155	232 psi
6"	709305620	6.062 - 7.559	154 - 192	232 psi
8"	709305624	7.559 - 9.133	192 - 232	232 psi
9"	709305626	9.050 - 10.551	230 - 268	232 psi
10"	709305628	10.511 - 12.204	267 - 310	232 psi
12"	709305632	12.401 - 14.015	315 - 356	232 psi
14"	709305636	13.858 - 15.472	352 - 393	232 psi*
16"	709305640	15.433 - 17.047	392 - 433	232 psi*
17"	709305642	17.007 - 18.267	432 - 464	150 psi
18"	709305672	17.716 - 18.976	450 - 482	150 psi
19"	709305673	18.937 - 20.196	481 - 513	150 psi
20"	709305674	19.685 - 20.944	500 - 532	150 psi
22"	709305676	21.574 - 22.834	548 - 580	150 psi
24"	709305678	23.818 - 25.078	605 - 637	150 psi
25"	709305680	24.803 - 26.063	630 - 662	150 psi
27"	709305681	26.181 - 27.441	665 - 697	150 psi
28"	709305682	27.913 - 29.173	709 - 741	150 psi
30"	709305685	29.331 - 30.591	745 - 777	150 psi
32"	709305683	31.456 - 32.716	799 - 831	150 psi
34"	709305684	32.952 - 34.212	837 - 869	150 psi

\* 150 psi for plastic pipe materials



## Reduced Couplings


Size (inch)	Part number	Pipe OD Range (inch)	Pipe OD Range (mm)	Working pressure
2" x 2½"	709405618	1.811 - 2.795 / 2.480 - 3.543	46 - 71 / 63 - 90	232 psi
2½" x 3"	709405620	2.480 - 3.543 / 3.307 - 4.133	63 - 90 / 84 - 105	232 psi
3" x 4"	709405624	3.307 - 4.133 / 4.094 - 5.196	84 - 105 / 104 - 132	232 psi
4" x 5"	709405632	4.094 - 5.196 / 5.196 - 6.102	104 - 132 / 132 - 155	232 psi
4" x 6"	709405636	4.094 - 5.196 / 6.062 - 7.559	104 - 132 / 154 - 192	232 psi
5" x 6"	709405638	5.196 - 6.102 / 6.062 - 7.559	132 - 155 / 154 - 192	232 psi
6" x 8"	709405648	6.062 - 7.559 / 7.559 - 9.133	154 - 192 / 192 - 232	232 psi
10" x 12"	709405686	10.511 - 12.204 / 12.401 - 14.015	267 - 310 / 315 - 356	233 psi
12" x 14"	709405688	12.402 - 14.015 / 13.858 - 15.472	315 - 356 / 352 - 393	232 psi*
16" x 17"	709405693	15.433 - 17.047 / 17.000 - 18.267	392 - 433 / 432 - 464	150 psi
17" x 19"	709405695	17.000 - 18.267 / 18.937 - 20.196	432 - 464 / 481 - 513	150 psi
20" x 22"	709405696	19.685 - 20.944 / 21.574 - 22.834	548 - 580 / 605 - 637	150 psi

\* 150 psi for plastic pipe materials

Please confirm pipe OD before ordering a coupling part number or a reduced coupling part number.

# Technical specifications

## Specifications

Body	Ductile iron ASTM A536 grade 65-45-12
Clamp ring	Ductile iron 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
Uni/Fiks ring	POM (polyoxymethylene) and/or glass fibre filled Polyamide
Uni/Fiksers	Stainless steel AISI 316
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
Working temperature	-5°C to +50°C / 23°F to 122°F
Working pressure (PFA)*	Non restraint: up to 362 psi water Restraint: up to 232 psi water * For details see user manual or contact your supplier
Certificates	NSF
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

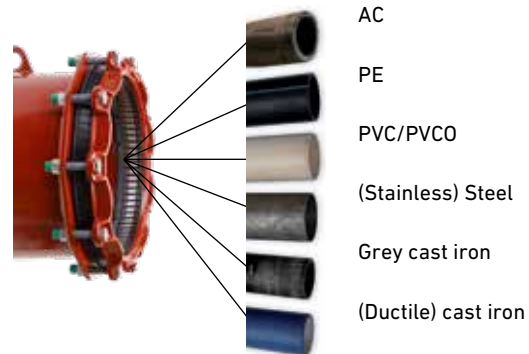
In case of connecting PE pipes always install an insert stiffener.  
 In case of connecting PVC pipes install an insert stiffener if the wall thickness is smaller than SDR21.



## Sealing system



## Suitable for all materials



## Nominal angularity\*



\* based on the middle of the range

GF Piping Systems

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