

Technical Manual

UNI-Coupling



UNI-Coupling



**+ connecting pipes
better, quicker
and safer than
you are used to**

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Connecting pipes better, quicker and safer ...

With the UNI-Coupling you connect pipes the easy way. Better than a threaded connection, quicker than a welded connection and safer than a flanged connection.

The stainless steel UNI-Coupling has a number of advantages compared to similar couplers. The UNI-Coupling has two specific parts making this coupler unique. A patented seal that eliminates the risk of leakage and a special shaped anchoring grip ring, which ensures a reliable, restraint connection.

Moreover the UNI-Coupling can be installed fast and thanks to the wide range, it can effortlessly connect different types of pipes with various outside diameters. Better, quicker and safer than you are used to. The UNI-Coupling offers you an easy to install, time saving and money saving solution.

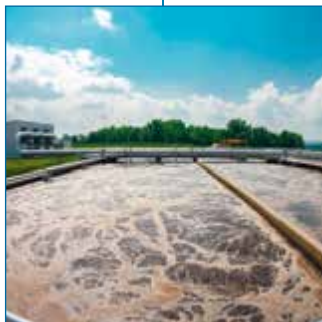


... in various applications

The UNI-Coupling has approvals for several applications such as shipbuilding, offshore, water treatment, chemical process industry, commercial buildings and infrastructure.

Applications:

- Reverse osmosis
- Process water
- Oil pipelines
- Gas turbines
- Cooling water
- Compressed air
- Rinse water
- Emergency showers
- Extinguishing lines
- Tank storage
- Bilge water
- Ballast water
- Sprinkler lines
- Drinking water
- District heating
- Air conditioning
- Wastewater
- Water distribution
- Gas distribution



High flexibility and safety margins

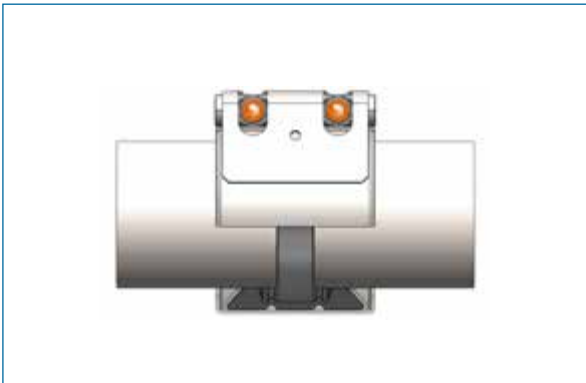
High flexibility and safety margins: the basic principle of UNI-Coupling.

Two types of UNI-Coupling

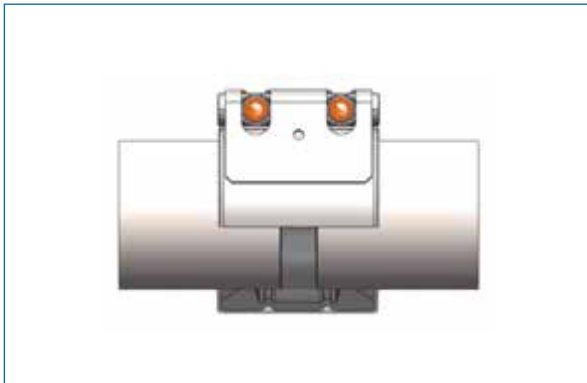
UNI-Coupling applies one unique technical principle in two basic types of products and is available for any type of pipe combination to be connected. Based on the well proven coupling technology, we combine various pipe materials for different applications.

Safety and reliability has been proven and certified by public authorities, insurance companies, technical inspectors and licensing institutes for all the major industrial sectors. You can rely on the UNI-Coupling.

UNI-Grip / UNI-Plastgrip / UNI-Combigrrip



UNI-Flex / UNI-Rep



Axially restrained



Axially flexible



Features and unique patented solution

The patented seal with an integrated compensation solution

Once installed, the unique seal with coupling compensation beads makes the use of stainless steel inserts superfluous in most applications. This actively prevents potential corrosion problems.

There will be a progressive sealing effect due to the wedged shaped structure. This ensures a watertight sealing even at high pressures. Due to the solid seal design (without thin lips) robustness of the seal guarantees durability even under harsh conditions.

Progressive anchoring with spherical profile

Internal pressure or axial forces cause tensile loads which is absorbed by the progressive anchoring ring. The teeth

show a spherical profile which ensures a high tip hardness and therefore a solid grip even at the toughest type surface. Especially important when it comes to thin walled stainless steel or cast iron pipes.

Thanks to the simultaneous cuts of the teeth (5°) a firm grip on other surfaces like metallic coated pipes is also guaranteed. This because the teeth penetrate the outer surface and anchor in the pipe wall.

Fire protection for your safety

For applications in which a fire protection must be guaranteed we meet the high demands of the shipbuilding industry according to ISO 19921/19922.

These high requirements are ensured by an additional fire protection.

Patented seal



Progressive anchoring



Axially flexible



Axially restrained



Countless benefits

Universal use

- Suitable for any pipe material
- Compatible with any traditional jointing system
- Joins pipes of similar or dissimilar materials
- Leakproof joint for liquids, gas and solids
- Quick and simple repairs of damaged pipes without service interruptions
- Installation and sealing principle consistent throughout the range
- Axially restrained or axially flexible (compensator) versions available

Economical

- Pre-assembled design ensures simple and quick installation
- For use on plain end pipes without the need for costly pipe end preparation
- Simply cut pipes to length, center coupling and tighten bolts
- Suitable for thick and thin wall pipes
- No expensive installation tools required

Reliable

- Stress free, flexible pipe joint
- Compensates axial movement and angular deflection
- Pressure resistant and leak tight even with inaccurate pipe assembly
- Dampens water hammer, vibration and structure-borne noise

Easy handling

- Detachable and reusable
- Maintenance free and trouble free
- No time consuming alignment and fitting work
- Easy installation technology
- No heat or fire hazard: can be fitted in fire risk or confined spaces without special equipment

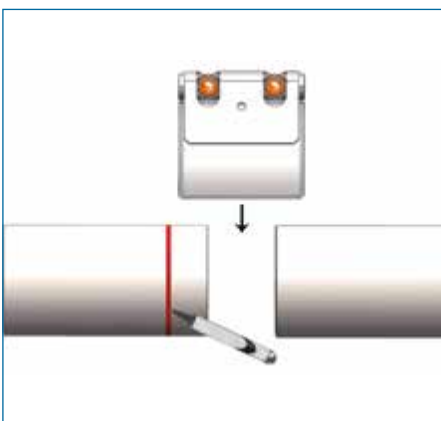
Durable

- Progressive sealing effect
- Progressive anchoring effect
- Corrosion resistant and temperature resistant
- Good resistance to chemicals
- Long service life

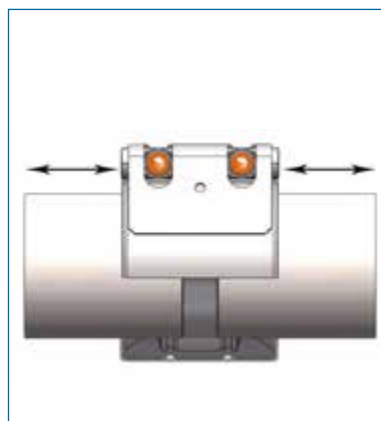
Space saving

- Compact design for space saving installation of pipes
- Needs little space
- Choice of mounting position
- Lightweight
- Increases the payload

Universal use



Reliable



Space saving



Test results

Safe

- Absorbs vibrations/oscillations
- Reduces pressure surges
- Reduces fatigue fractures
- No fire or explosion hazard during installation
- No cost for protective measures
- Quadruple safety
- Absorbs overloading through flexibility

Damping

- Increases the life of valves and systems
- Compensates axial offset and angles
- Coupler and compensator in one

Long lasting stress free

- Corrosion resistant
- Good resistance to temperature and chemicals
- Low torque guarantees long service life

PN16; Ø 114,3 mm

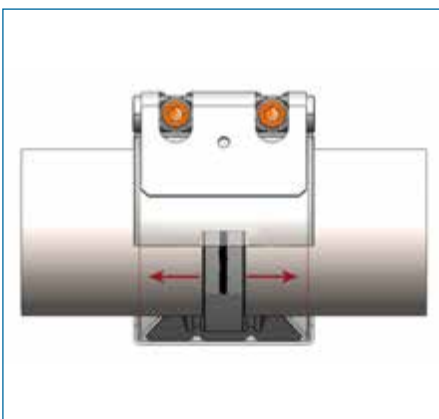
UNI-Coupling Connection (2 x DN80) 8,7 kg



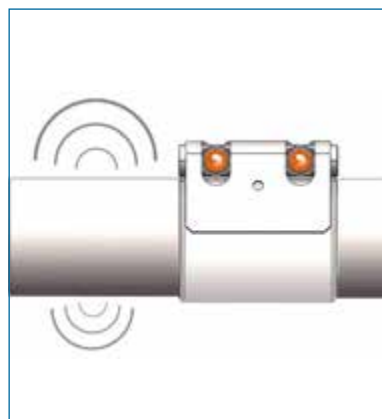
Flange Connection (2 x 2 pieces) 21,9 kg



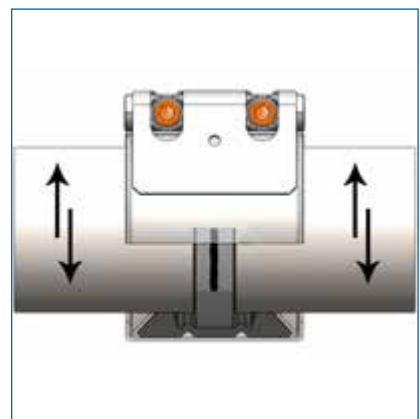
Safe



Damping



Long lasting stress free



Approvals

The UNI-Coupling has several approvals. More approvals are pending.

DVGW



- DIN EN 681
- DIN EN 682
- KTW 1.3.13
- W270
- ISO: 9001:2008
- ISO: 14001:2004

TÜV NORD



IACS



- According to IACS Standard P2 Rules
- for piping design, construction and testing

Bureau Veritas



Class NK



Lloyd's Register



DET Norske Veritas / Germanischer Lloyd's



RINA Services



Korean Register



American Bureau of Shipping



Russian Maritime Register of Shipping



China Classification Society



Test results

Corrosion test

264 hours salt spray corrosion test.
Tested according to ASTM B117, DIN EN ISO 9227.



264 hours corrosion test
Results: after 264 hours (11 days) NO CORROSION



Fire test

Certified custom build fire test bench. Capable of testing under conditons up to 850°C and to a maximum of 24 bar pressure.



Vacuum test

Costum build vacuum test capable of testing up to a vacuum of 0,1 bar absolute pressure.



Youtube Channel

Check our UNI-Coupling Youtube Channel for testing video's / fitting instructions and more ...

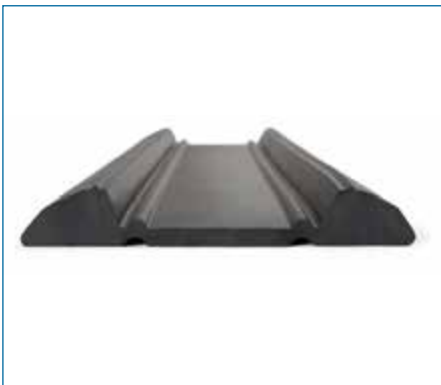
Vibration test

Custom build vibration bench capable of testing diameters up to DN600 under 3 different frequencies and 3 different RPM's.



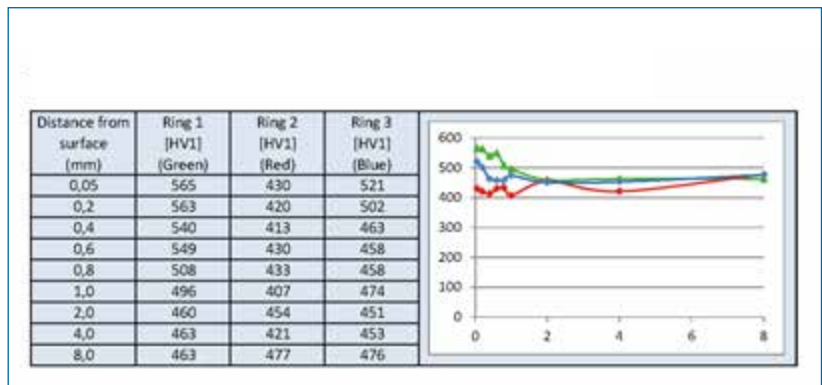
Gasket test

- Results: pressure on the seal
- No strip insert
- No corrosion



Anchoring test

- Results: hardening from: 1450 N/mm² (460 HV1) to 1850 N/mm² (565 HV1 = 53 HRC)
- Ring 1 = UNI-Coupling (green), ring 2 (red) and 3 (blue) = competitors



Tightness and burstpressure test

Custom build pressure bench capable of testing all diameters, pipe materials and pressure ratings.



Pullout test

Custom build pullout bench capable of testing diameters up to DN750 under maximum pullout force up to 50 tons.



Type overview

The UNI-Coupling is available in various types.

UNI-Grip

- To connect metal - metal
- For restraint jointing
- Patented wedge shaped seal
- 2 grip rings for metal pipes
- Stainless steel 1.4571 (W5) quality

UNI-Plastgrip

- To connect plastic - plastic
- For restraint jointing
- Patented wedge shaped seal
- 2 grip rings for plastic pipes
- Stainless steel 1.4571 (W5) quality

UNI-Combigrp

- To connect metal - plastic
- For restraint jointing
- Patented wedge shaped seal
- 1 grip ring for metal pipes
- 1 grip ring for plastic pipes
- Stainless steel 1.4571 (W5) quality

UNI-Flex

- To connect metal - plastic
- To connect metal - metal
- To connect plastic - plastic
- For flexible jointing
- Patented wedge shaped seal
- Stainless steel 1.4571 (W5) quality

UNI-Rep

- To connect metal - plastic
- To connect metal - metal
- To connect plastic - plastic
- For flexible jointing
- Patented wedge shaped seal
- Clamp mechanism for repairing under pressure
- Stainless steel 1.4571 (W5) quality

Pipe materials

UNI Couplings can be used to connect all pipes made of steel/stainless steel, copper-nickel, GRP, PVC-U, PP, PE, PB and ABS, as long as their outside diameter is within the clamping range

within the clamping range of the couplings.

In the case of pipes made of GRP and cement-bonded materials (ZGW/AZ), longitudinal force locking cannot be guaranteed due to the surface properties.

UNI-Grip



UNI-Flex



UNI-Plastgrip / UNI-Combigrp



UNI-Rep



Technical Data



Technical data overview

Typ	Ø (mm)	Width (mm)	Pressure (PN) 	Pressure (WP) 
 UNI-Grip	21 - 172	45 - 110	16	21 to 70
	185 - 745	138 - 146	2.5 to 16	6 to 25
 UNI-Plastgrip	39 - 172	60 - 110	10	16
	172 - 640	140 - 146	2.5 to 10	6 to 16
 UNI-Combigrip	39 - 172	60 - 110	10	16
	172 - 640	140 - 146	2.5 to 10	6 to 16
 UNI-Flex	19 - 172	45 - 110	16	25
	188 - 2090 Bigger on request	140 - 206 280 - 420	2,5 to 16	6 to 25
 UNI-Rep	33 - 172	45 - 110	16	25
	185 - 2090 Bigger on request	140 - 206 280 - 420	6 to 16	10 to 25

Working pressure for marine applications with 4x safety factor in bars

Working pressure for industrial and land-based applications with 1x safety factor in bars

Wider range	OD (mm)	Number of couplers	Material quality	
UNI-Coupling	21 - 47,5 47,5 - 172	7 15	standard W5 standard W5	to 5 mm thickness to 5 mm thickness

Connecting	Metal - Metal	Plastic - Plastic	Metal - Plastic	Restrained / Flexible
UNI-Grip	X			restrained
UNI-Plastgrip		X		restrained
UNI-Combigrrip			X	restrained
UNI-Flex	X	X	X	flexible
UNI-Rep	X	X	X	flexible

Sealing material	EPDM > 21 - 2090 mm		NBR	Silicone or Viton (FKM)
Temperature range	-30 °C - +125 °C		-20 °C - +80 °C	on request
Medium	drinking water, wastewater, compressed air, alcohol and solids		water, gas, oil, fuel, and other hydrocarbons	on request

Quality	Housing	Lock bars	Bolts	Anchoring
W5	1.4571 / 316 Ti	1.4571 / 316 Ti	A4 – 80 / 316 Ti	1.4310 / 301

Technical data overview

Uni-Flex & UNI-Rep couplings are available in multiple widths

Type	Ø (mm)	Width (mm)	Pressure (PN)	
 UNI-Flex / UNI-Rep	250 – 2090 Bigger on request	210	bis 25	Working pressure for industrial and land-based applications with 1.5x safety factor in bars
 UNI-Flex / UNI-Rep	300 – 2090 Bigger on request	280	bis 25	
 UNI-Flex / UNI-Rep	300 – 2090 Bigger on request	420	bis 25	



Sealing material	EPDM	NBR	Viton (on request)	Silicone (on request)
Temperature range	-30 °C to +125 °C	-20 °C to +80 °C	-20 °C to +180 °C	
Medium	drinking water, wastewater, compressed air, alcohol and solids	water, gas, oil, fuel, and other hydrocarbons	ozone, oxygen, acids, gas, oil and fuel (only with strip insert)	

Quality	Housing	Lock bars	Bolts	
W5	1.4404 (316L) 1.4571 (316Ti) 1.4462 (318LN) 1.4162 (Lean Duplex)	1.4404 (316L) 1.4571 (316Ti) 1.4462 (318LN) 1.4162 (Lean Duplex)	A4 – 80 A4 – 70	

Installation Conditions

1. Installations conditions

1.

EPDM For drinking water, waste water, air and solids -30°C - +125°C	NBR For water, gases, oils, fuels and other hydrocarbons -20°C - +80°C
--	---

EPDM
Voor drinkwater, afvalwater, lucht en vaste stoffen.
Für Trinkwasser, Abwasser, Luft und Feststoffe.
Pour eaux potable et usées, air et matières solides.
Para agua potable, agua residual, aire y sólidos.
Питьевая вода, сточные воды, воздух и твердые частицы.
Pitka voda, otpadne vode, vazduh i tvrdе cesticе.

NBR
Voor water, gas, olie, brandstoffen en andere koolwaterstoffen.
Für Wasser, Gase, Öl, Kraftstoff und andere Kohlenwasserstoffe.
Pour eau, gaz et hydrocarbures.
Para agua, gases, aceites, combustibles y otros hidrocarburos.
Вода, газ, нефть, топливо и другие углеводороды.
Voda, plin, nafta, gorivo i ostali ugljikovodici.

2.

OØ (mm)	C _{max} (mm)	≈ B (mm)
21 - 35	10	≈ 45
36 - 52	15	≈ 60
53 - 63	25	≈ 75
64 - 129	30	≈ 95
130 - 172	40	≈ 110
172 - 2000	40	≈ 140
263 - 2000	90	≈ 210
263 - 2000	150	≈ 280
263 - 2000	300	≈ 420

3.

OØ (mm)	α
21 - 64	5°
64 - 223	4°
223 - 613	2°
613 -	1°

4.

C $1\% OØ1 \geq OØ2$ (max. 3 mm) ✓

D $>1\% OØ1 \geq OØ2$ (>3 mm)

5.

D $1\% OØ$ (max. 3 mm) ✓

E $OØ1 = OØ2$

>3 mm

$>1\% OØ$ (>3 mm)

6.

E $A>B: \leq 2\%$ (max. 5 mm) ✓

F $A>B: >2\%$ (>5 mm)

7.

UNI-Flex (F) / UNI-Rep (R)

F PLASTIC METAL

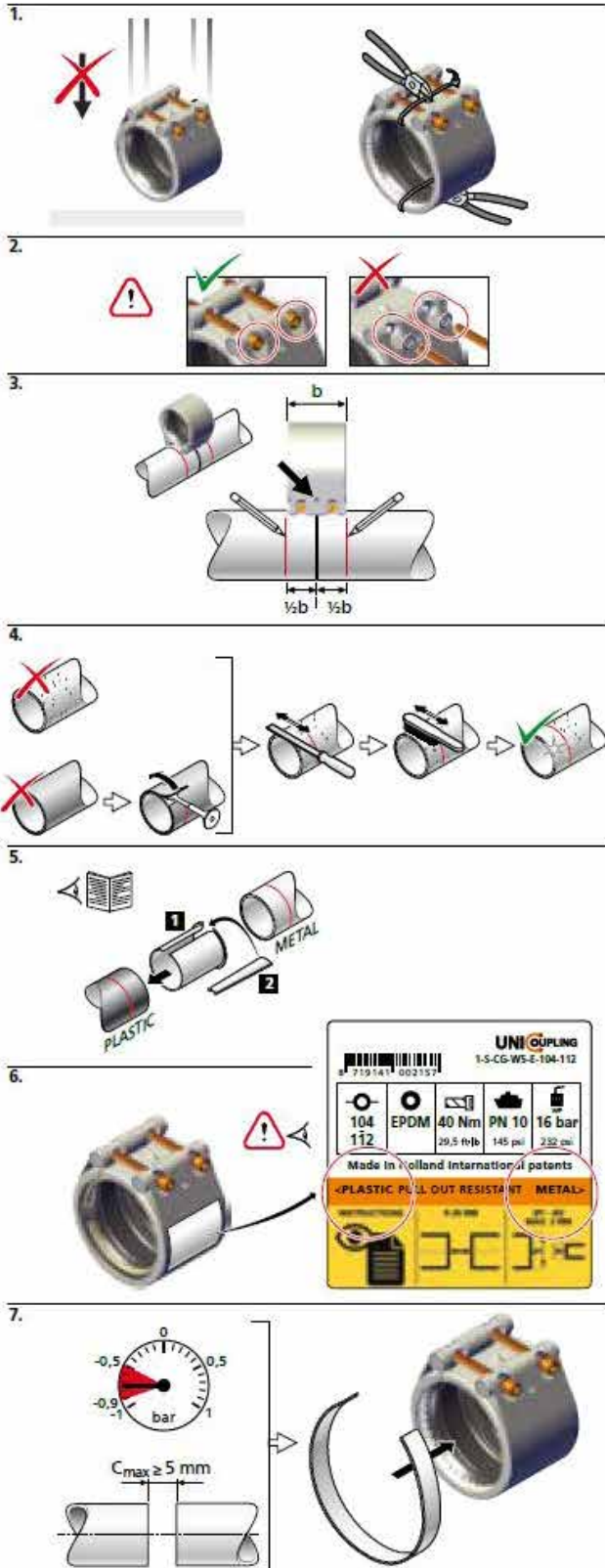
ΔL

≈ B (mm)	ΔL in mm
≈ 45-110	5
≈ 140	10
≈ 210	15
≈ 280	20
≈ 420	20

8.

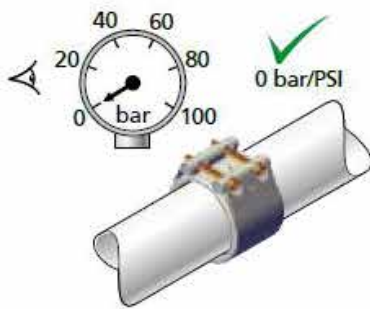
A	B	✓
C	D	A + C
E	F	A + B + C
		A + B
		A + D
		A + E
		A + F

2. Preparations

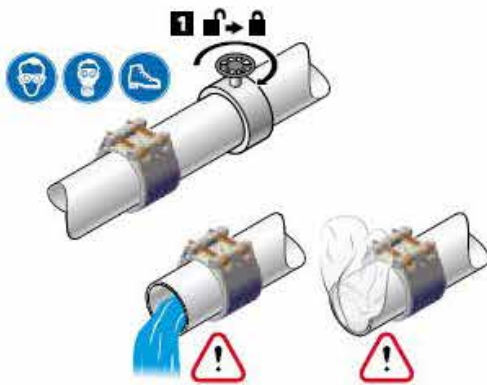


4. Disassembly instructions

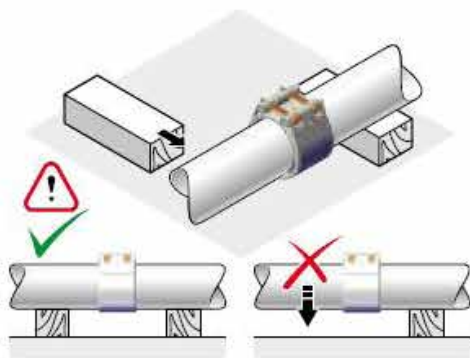
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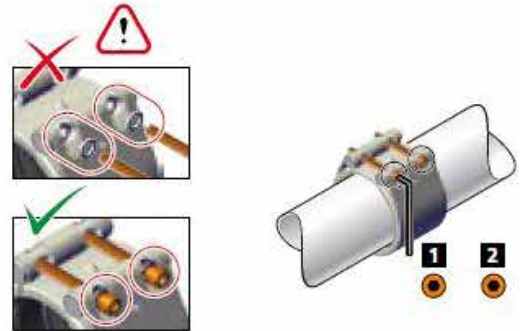
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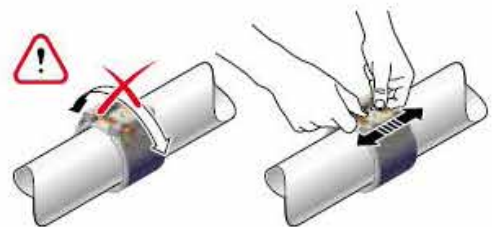
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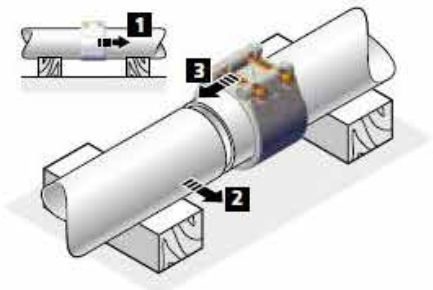
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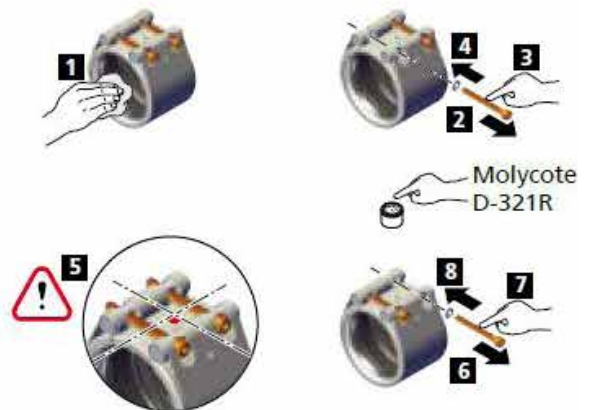
5.



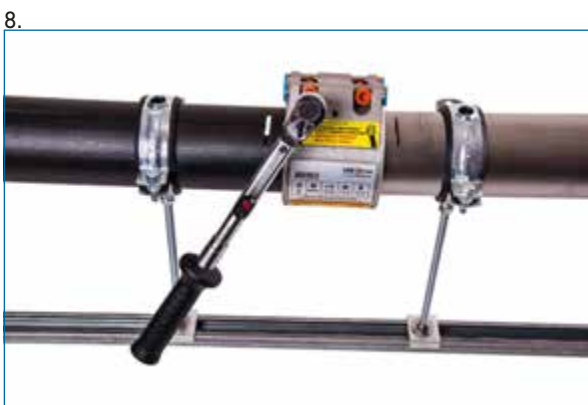
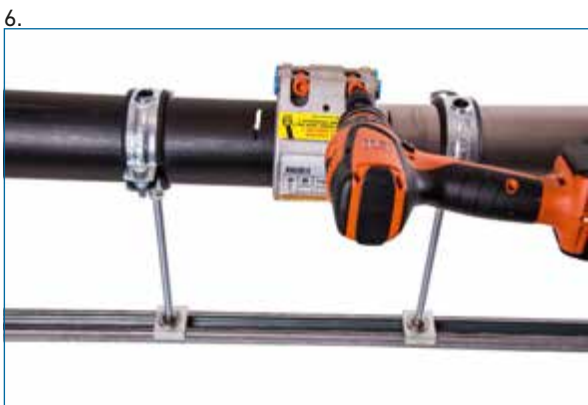
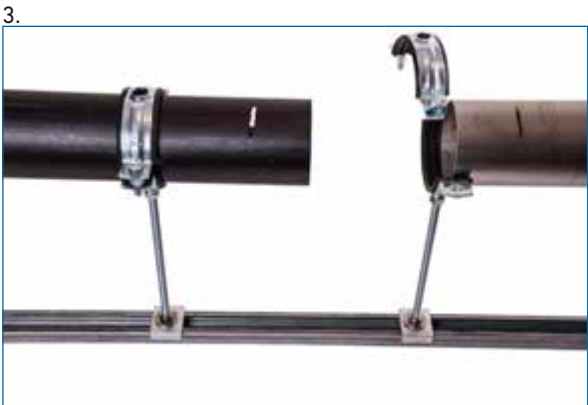
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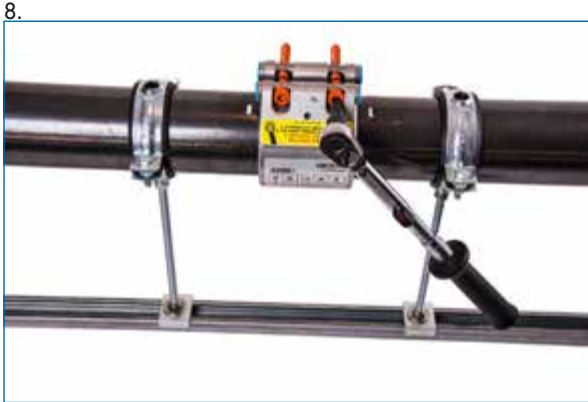
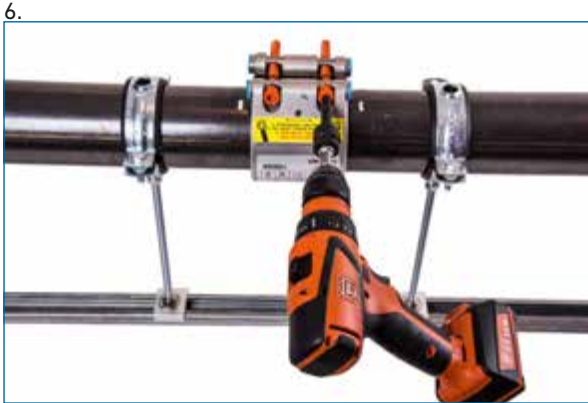
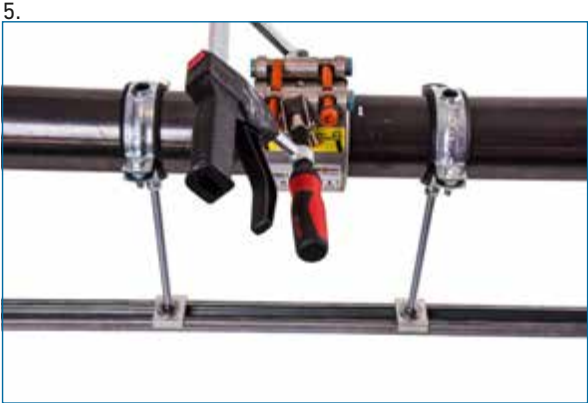
7.



Fitting Instructions UNI-Grip, UNI-Plastgrip, UNI-Combigrig, Uni-Flex



Fitting Instructions UNI-Rep



Fitting Instructions Insert

Economy Insert

- Suitable for PE, PVC, PP and PB plastic pipes
- Stainless steel 1.4310 (W2) quality
- Insert without range
- Other dimensions on request
- Use insert stiffeners for installation on PE, PVC, PP or PB pipes

2.



1.



3.



Insert with wedge

- Suitable for PE, PVC, PP and PB plastic pipes
- Stainless steel 1.4310 (W2) quality
- Insert with range
- Other dimensions on request
- Use insert stiffeners for installation on PE, PVC, PP or PB pipes

2.



1.



3.



Fitting Instructions UNI-Fire



Accessories

Strip inserts

Strip inserts protect the sealing sleeve against mechanical or chemical damage in the pipe end area.

Strip inserts are required for:

- External pressure (e.g. underwater pipeline)
- Vacuum ≥ 0.5 bar A pressure (e.g. suction line)
- Swelling of the rubber caused by contact with chemicals

Subsequent installation of strip inserts for all types of couplings is possible. Strip insert are made of 316 Ti (1.4571) quality steel and capable of handling high temperature, vacuum and external pressure.

Fitting plier / fitting belt

For convenient assembly of UNI-Rep couplings we recommend using a fitting plier. The plier uses the bores in the housing to close the coupling which enables you to manually tighten the bolts. For bigger diameters (>300 mm) use a fitting belt.

Torque wrench

Always assemble UNI-Couplings with a torque wrench. The correct torque is indicated on the housing of each UNI-Coupling. In using a torque wrench you ensure that the UNI-Coupling is not overstressed.

Strip insert



Fitting plier



Torque wrench



Dimensions and minimal wall thickness at nominal pressure PN

Pipe Ø		Nominal Ø		Minimum Pipe wall thickness	
Metric (mm)	Ips (inch)	Metric (dn)	Ips (nom)	Stainless steel tube	CuNi10Fe (DIN) CuNi10Mn1Fe (ISO)
				UNI-Grip (mm)	UNI-Grip (mm)
26,9	1.050	20	¾	1.5	1.5
30.0	1.180	25	1.2	1.5	1.5
33.7	1.325	25	1	1.5	2.0
38.0	1.495	32	1.5	1.5	2.0
42.4	1.670	32	1 ¼	1.5	2.0
44.5	1.750	40	1.75	1.5	2.0
48.3	1.900	40	1 ½	1.5	2.0
54.0	2.125	50	2.125	1.5	2.0
57.0	2.245	50	2.25	1.5	2.0
60.3	2.375	50	2	1.5	2.0
66.6	2.625	65	2 ½	2.0	2.0
70.0	2.756	65	2 ½	2.0	2.0
73.0	2.875	65	2 ½	2.0	2.0
76.1	(3.000)	65		2.0	2.0
79.5	3.125	65	3	2.0	2.0
84.0	3.305	80	3.3	2.0	2.0
88.9	3.500	80	3	2.0	2.0
100.6	3.960	80	(3)	2.0	2.3
101.6	(4.000)	90	(3 ½)	2.0	2.3
104.0	4.095	100	4.1	2.0	2.3
104.8	4.125	100	(4)	2.0	2.3
108.0	4.250	100	4 ¼	2.0	2.3
114.3	4.500	100	4	2.0	2.3
127.0	5.000	100	4 ½	2.6	3.0
129.0	5.080	125	5	2.6	3.0
130.2	5.125	125	(5)	2.6	3.0
⁸ 131.0				3.0	
133.0	5.235	125	5 ¼	2.6	3.0
139.7	(5.500)	125	(5 ½)	2.6	3.0
141.3	5.565	125	5	2.6	3.0
154.0	6.065	150	6.1	2.6	3.0
⁸ 155.0				2,5	
159.0	6.260	150	6 ¼	2.6	3.0
168.3	6.625	150	6	2.6	3.5
193.7	7.625	200	7.6	3.0	3.5
⁸ 206.0				3.0	
219.1	8.625	200	8	3.0	3.5
244.5	9.625	225	9	on request	4.5
⁸ 256.0				on request	
267.0	10.510	250	10.5	on request	4.5
273.0	10.750	250	10	on request	5.0
⁸ 306.0				on request	
323.9	12.750	300	12	on request	5.5
355.6	14.000	350	14	on request	6.0
406.4	16.000	400	16	on request	8.0
457.2	18.000	450	18	on request	9.0
508.0	20.000	500	20	on request	10.0
558.8	22.000	550	22	on request	10.0
609.6	24.000	600	24	on request	12.0

Thinner walls are possible at lower pressures; please contact your local dealer.
⁸ Standard pipe dimension for stainless steel (outer diameter related to the wall thickness)

Installation time and dimension comparison, metric/inch

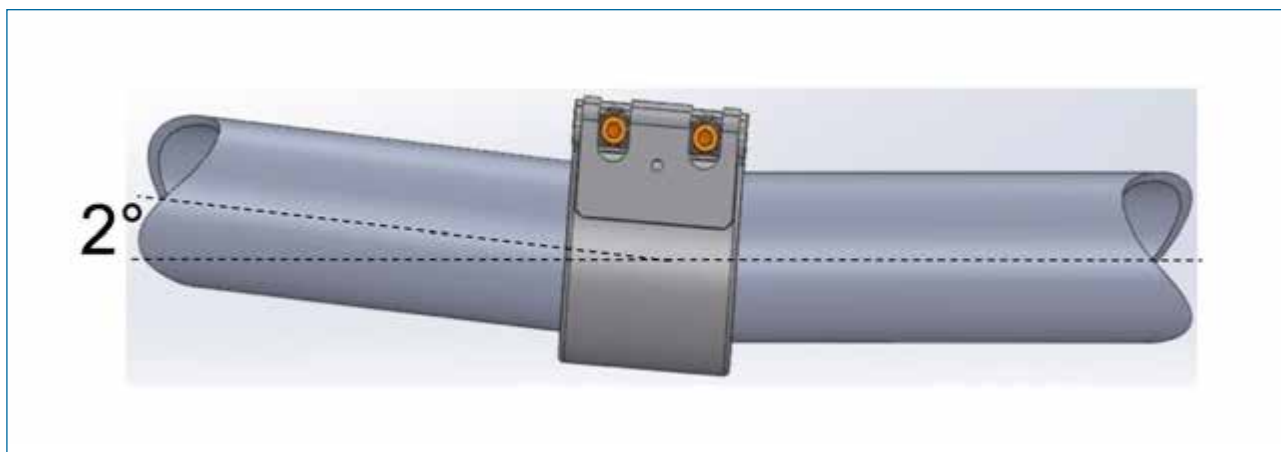
The installation time includes:

- Marking of half the coupling width on both pipe ends
- Fitting the coupling over pipe ends and correct alignment
- Tightening the bolts with a torque wrench

Pipe Ø		Nominal Ø		Installation time per coupling (min)
Metric (mm)	Ips (inch)	Metric (dn)	Ips (nom)	
26,9	1.050	20	3/4	2
30	1.180	25	1.2	2
33,7	1.325	25	1	2
38	1.495	32	1.5	2
42,4	1.670	32	1 1/4	2
44,5	1.750	40	1.75	2
48,3	1.900	40	1 1/2	2
54	2.125	50	2.125	3
57	2.245	50	2.25	3
60,3	2.375	50	2	3
66,6	2.625	65	2 1/2	4
73	2.875	65	2 1/2	4
76,1	(3.000)	65	3	4
79,5	3.125	65	3	4
84	3.305	80	3.3	4
88,9	3.500	80	3	4
100,6	3.960	80	(3)	5
101,6	(4.000)	90	(3 1/2)	5
104	4.095	100	4.1	5
104,8	4.125	100	(4)	5
108	4.250	100	4 1/4	5
114,3	4.500	100	4	5
127	5.000	100	4 1/2	6
129	5.080	125	5	6
130,2	5.125	125	(5)	6
133	5.235	125	5 1/4	6
139,7	(5.500)	125	(5 1/2)	6
141,3	5.565	125	5	6
154	6.065	150	6.1	7
159	6.260	150	6 1/4	7
168,3	6.625	150	6	7
219,1	8.625	200	8	9
244,5	9.625	225	9	10
267	10.510	250	10.5	10
273	10.750	250	10	10
323,9	12.750	300	12	12
355,6	14.000	350	14	12
406,4	16.000	400	16	12
457,2	18.000	450	18	12
508	20.000	500	20	12
558,8	22.000	550	22	12
609,6	24.000	600	24	12

Angular deflection

UNI-Couplings cover angular deflection of pipes up to 2° (4°) in any direction.

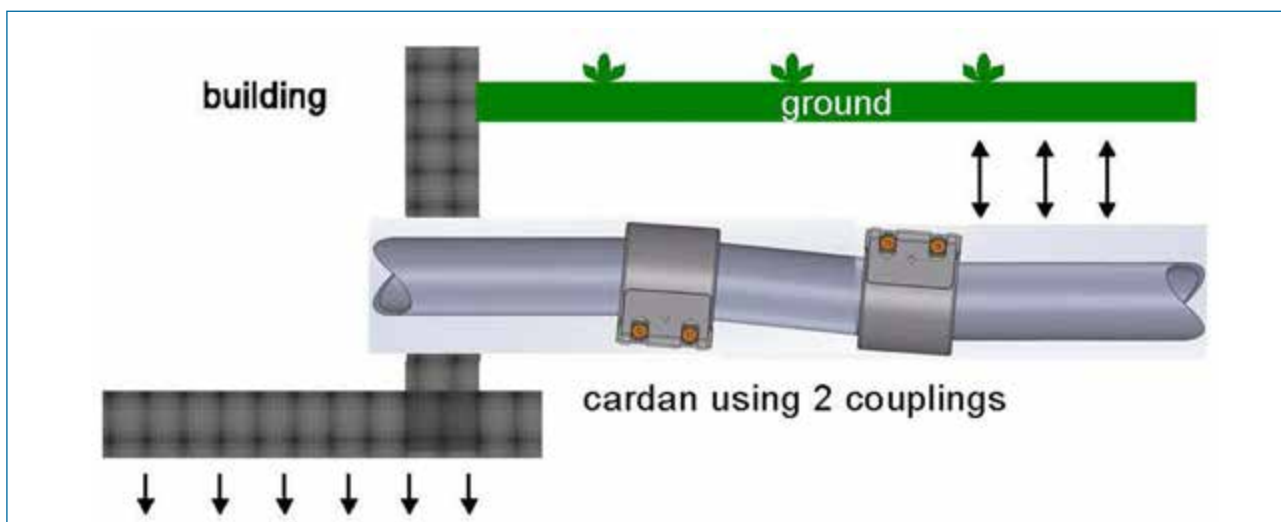


The 2° angular deflection corresponds to 35 mm per meter of pipe length.

The installation is very easy and there is no need for costly pipe alignment.

It is possible to fit the pipe with angular deflection and to use the joint for dynamic angular movement under working conditions after installing the pipe system.

Example: Ground settling



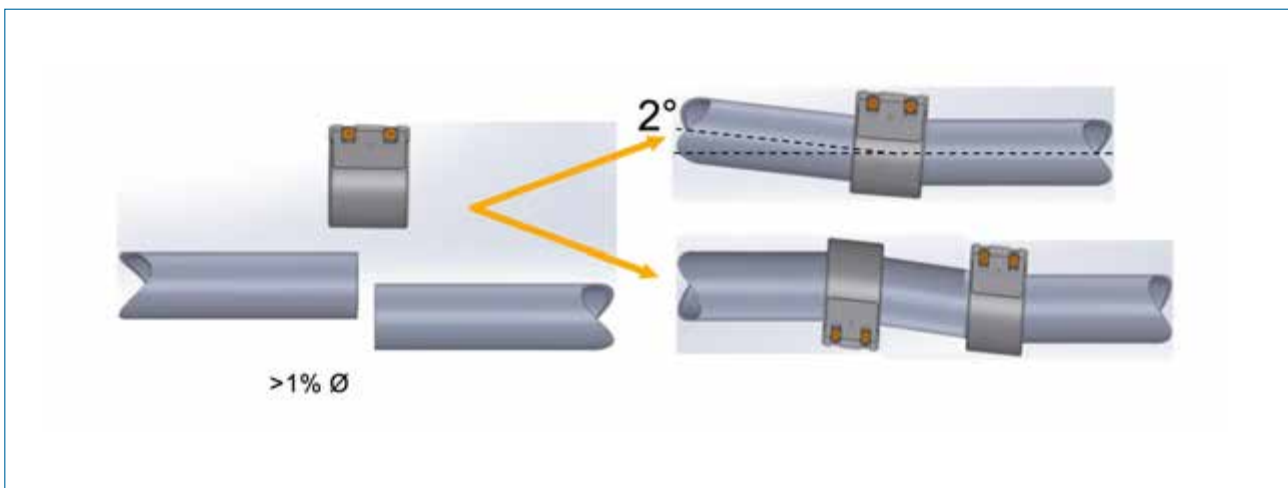
Note: Pipe end gap C max must always be kept.

Axial misalignment

UNI-Couplings generally allow misalignment of the pipe axis. However, we recommend avoiding misalignment wherever possible or absorbing it either with an angularity of max 2° or by using an intermediate piece.

Since "zero misalignment" is hard to realize, a minimal misalignment is tolerated. The following rule serves to explain the limits of what is tolerable, with the aim of keeping axial misalignment as small as possible.

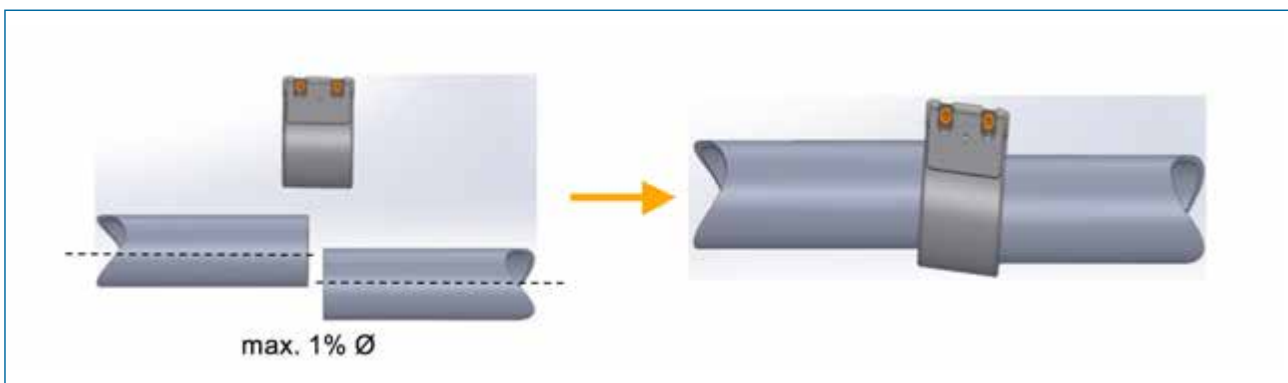
'For fixed pipe ends, a misalignment of up to 1% (max. 3 mm) of corresponding pipe OD can be tolerated without any restrictions. It does not affect the correct fitting of the UNI-Coupling'.



Where the pipeline guides are sufficiently spaced from the pipe end, the butt ends can be rectified by hand with low force, approx. 500N. The remaining axial misalignment after tightening the lock bolts is minimal. For such an application a larger misalignment prior to connecting can be permitted, keeping the following rule in mind:

A misalignment of up to 1% in the fitted position has no negative influence on the function of UNI-Flex and UNI-Rep pipe couplings and is therefore tolerable up to pipe OD of 300 mm.

Under such conditions a slight sloping of the coupling on the pipe ends has to be expected.



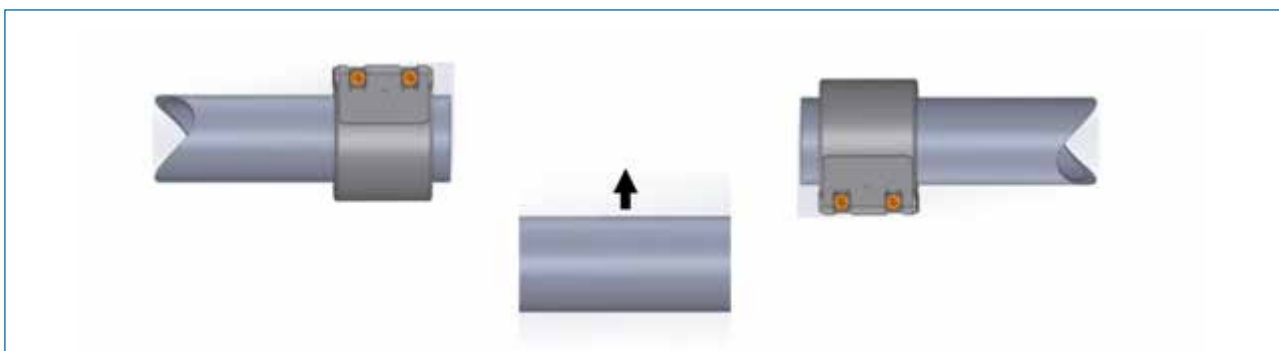
Retrofitting pipe sections and fittings

Thanks to their large clearance and allowable fitting gap as well as the wide tolerance range, UNI-Couplings are predestined as an ideal construction element for retrofitting pipe sections and fittings during repair work or for changes in the pipeline direction.

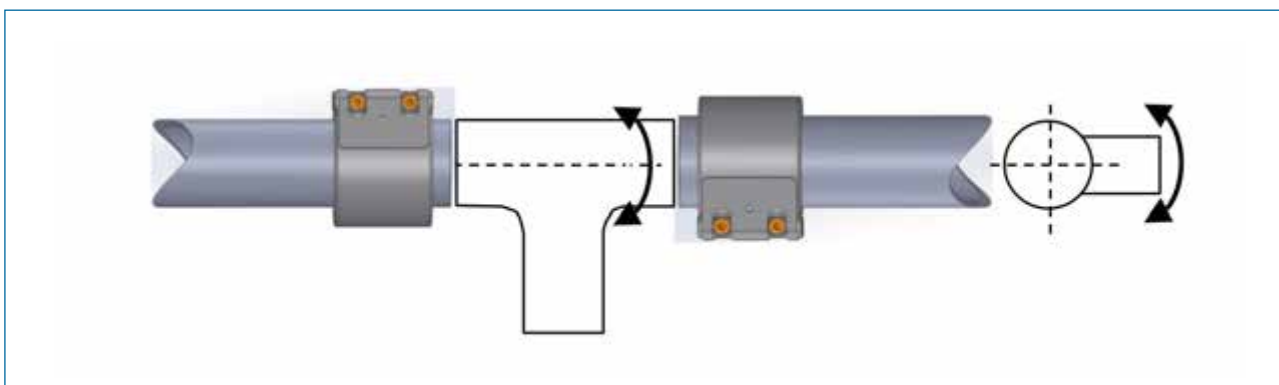


UNI-Coupling pipe couplings do not absorb bending or torsion forces. Pressure lines must be supported, anchored and guided.

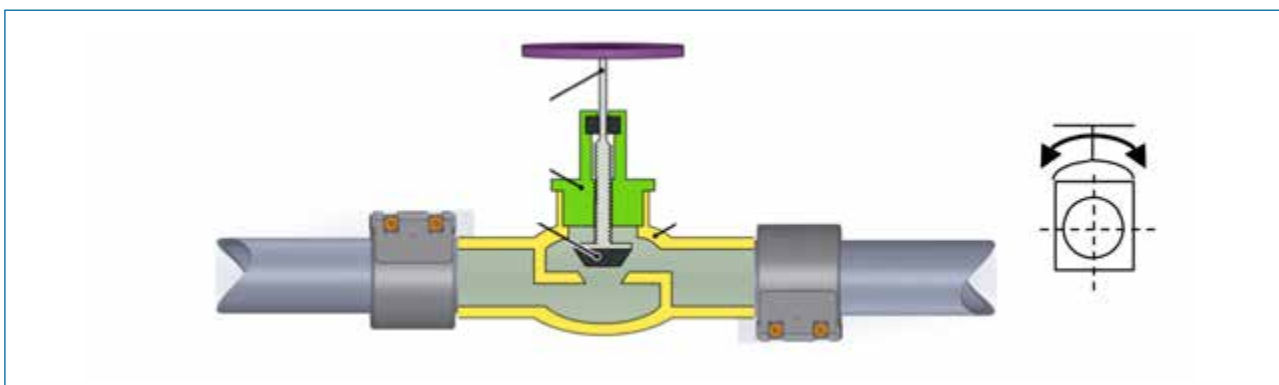
Pipe section for existing or new pipelines



Fitting (T), position and direction of the branch are freely selectable



Valve with plain ends, rotatable to any position



Axial movement/change in length

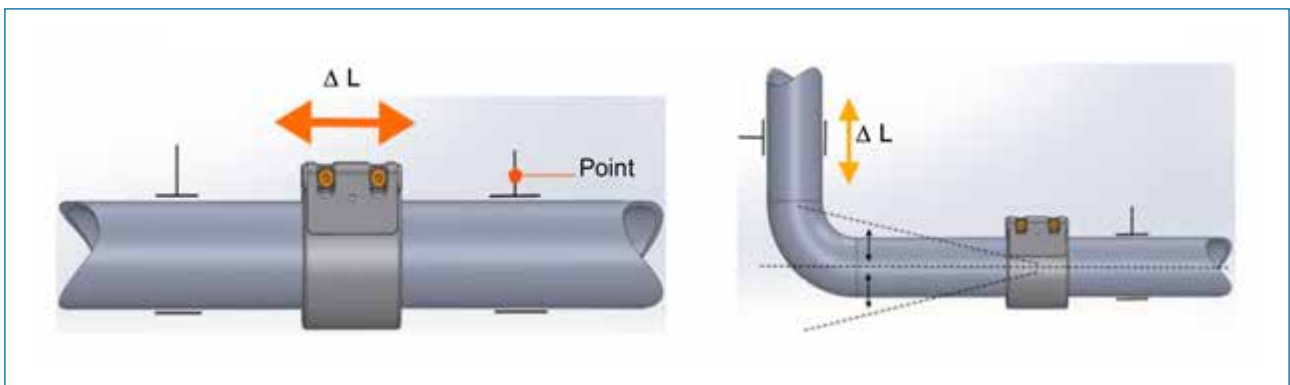
Temperature changes in pipeline systems cause axial movement and tensile or pressure stress, which must be compensated by adequate countermeasures.



UNI-Coupling pipe couplings do not absorb bending or torsion forces. Pressure lines must be supported, anchored and guided.

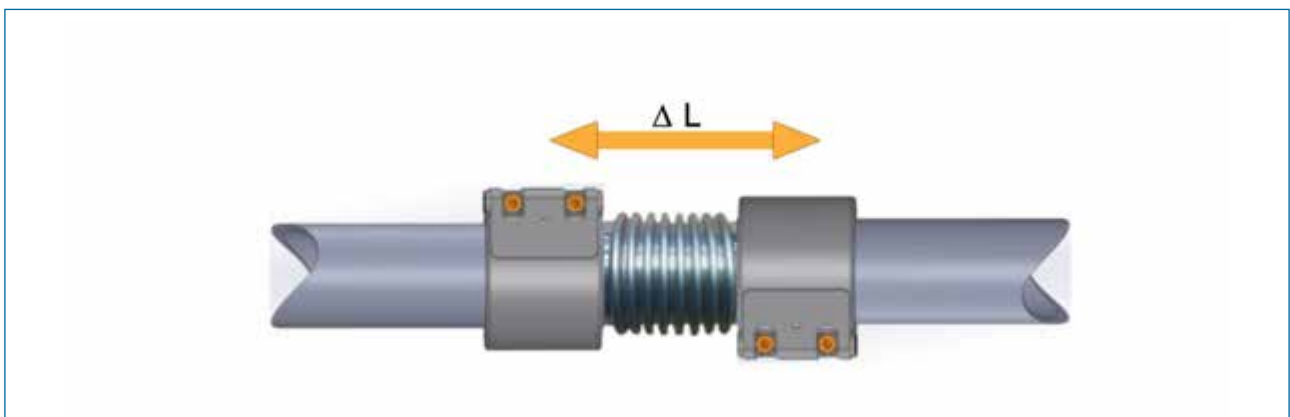
UNI-Flex and UNI-Rep pipe couplings are able to compensate axial movement of straight pipe sections, up to 20 mm depending on the size of coupling.

- compensation of axial movement
- no abrasion on the sealing sleeve
- escaping space for rubber expansion under temperature
- stress-free pipeline without additional means (see below)



Note: Pipe end gap C max. must always be kept.

Larger axial movements need compensation, such as traditional compensators



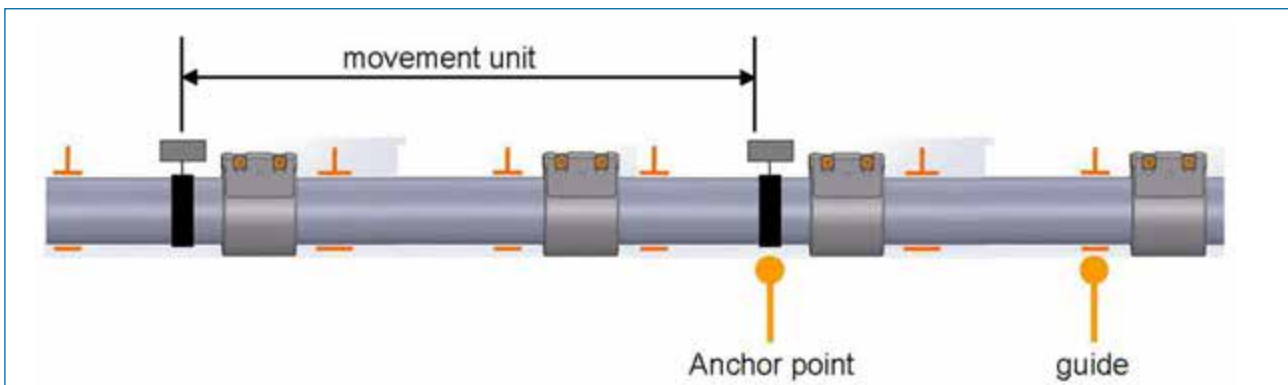
Anchor points and guides with axial movement

Clever fastening of pipe sections which are exposed to axial movement due to temperature influences can be divided into 'movement units' and joined very economically with UNI-Flex and UNI-Rep pipe couplings as compensators.

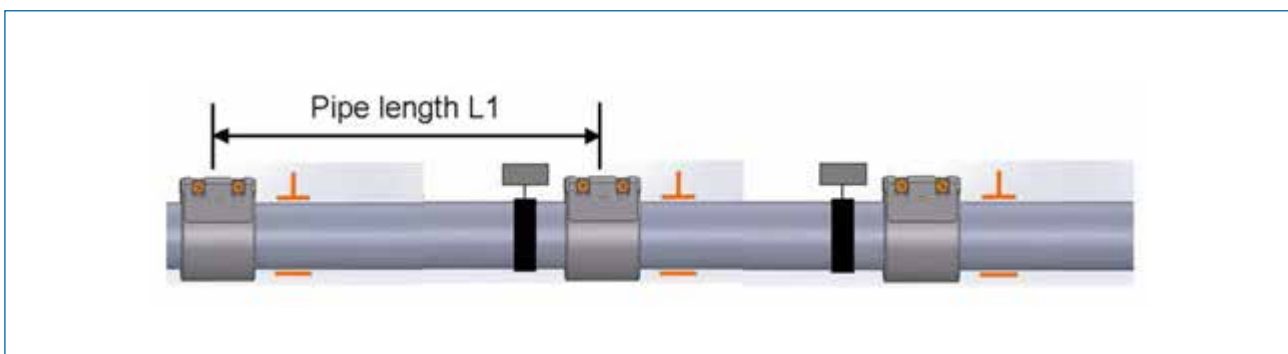


UNI-Coupling pipe couplings do not absorb bending or torsion forces. Pressure lines must be supported, anchored and guided.

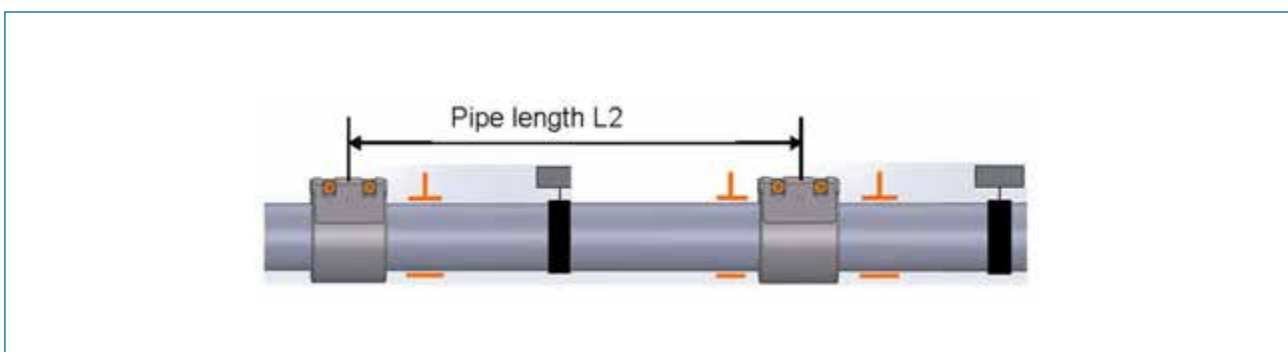
The distance between 2 anchor points forms a movement unit.



The movement between the 2 anchor points may not exceed the permissible value given for one joint.

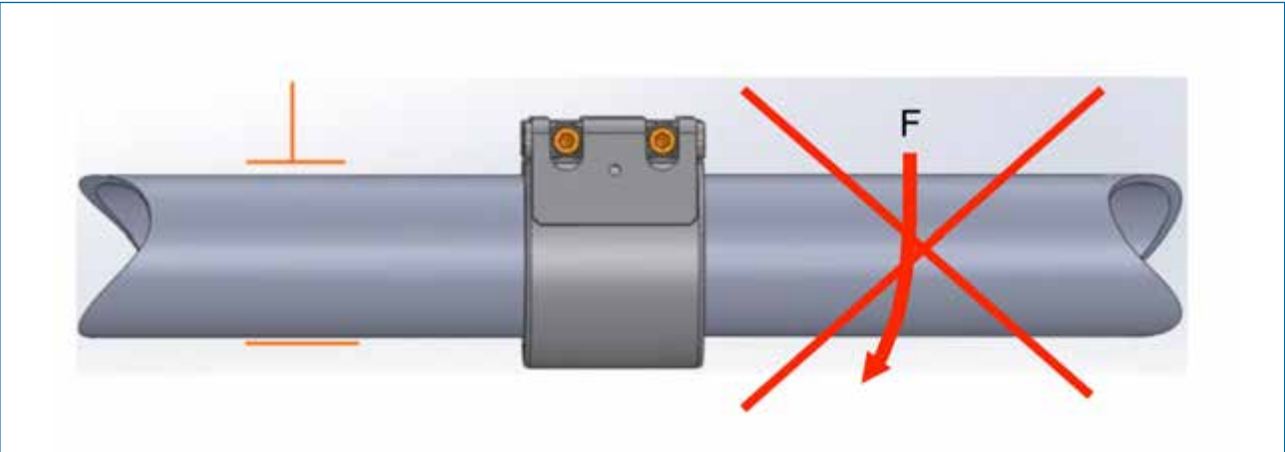


Depending on the value of axial movement, every second anchor point can be replaced with a guide.



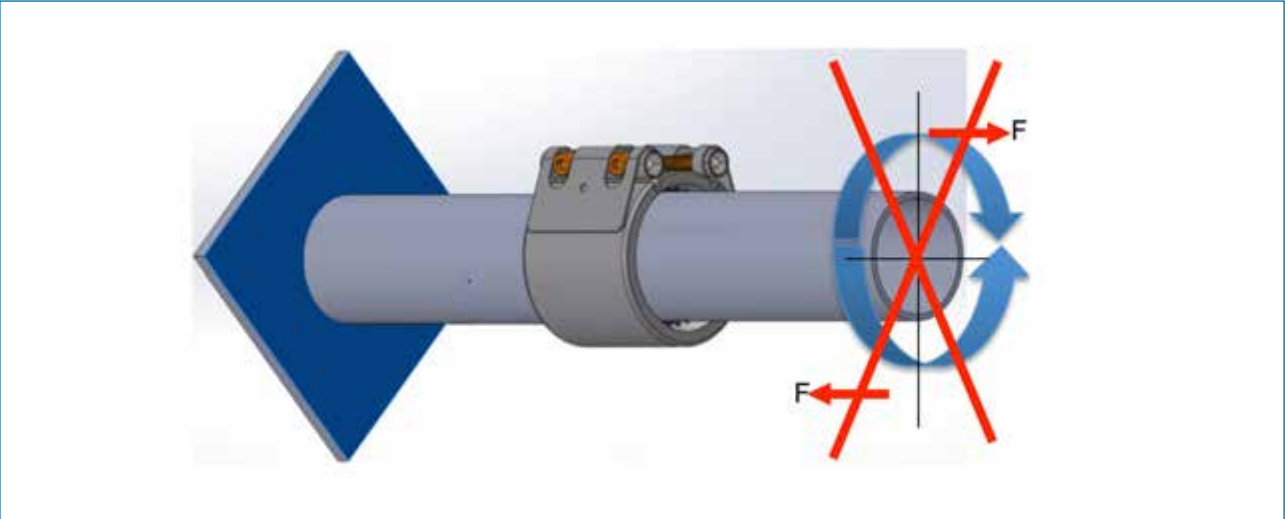
Bending/torsion

Bending



UNI-Coupling pipe couplings do not absorb bending or torsion forces. Pressure lines must be supported, anchored and guided.

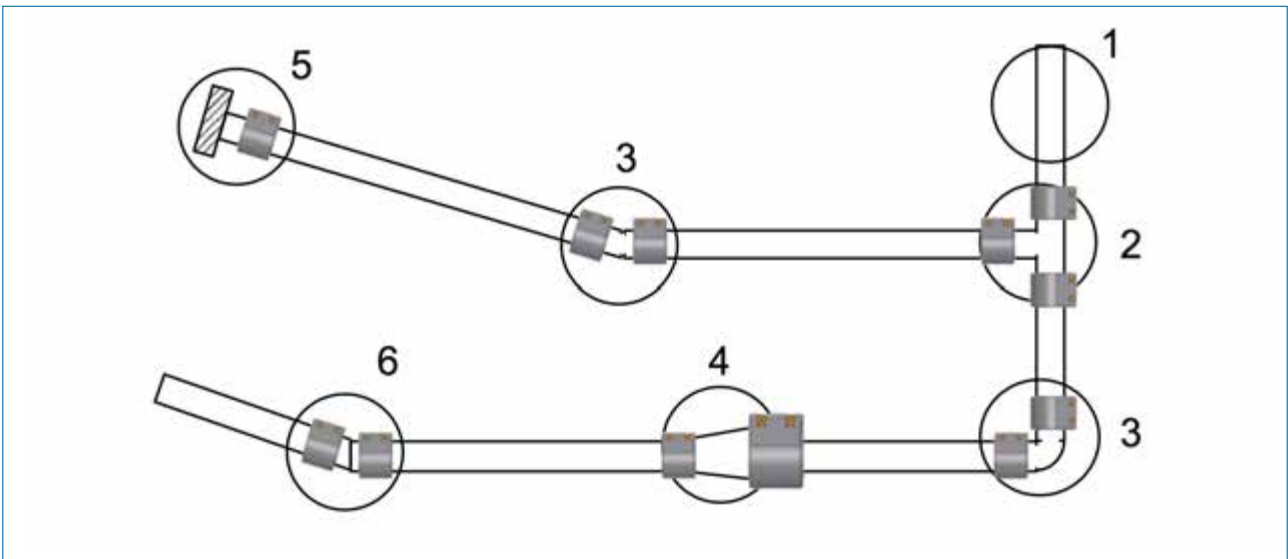
Torsion



Underground pipelines



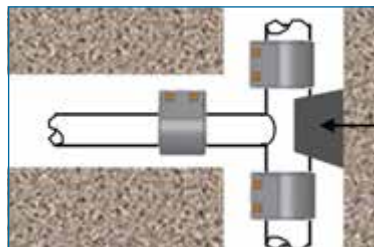
UNI-Coupling pipe couplings do not absorb axial forces. Structural measures for buried pipelines are required in order to absorb axial forces (e.g. lean concrete abutment)



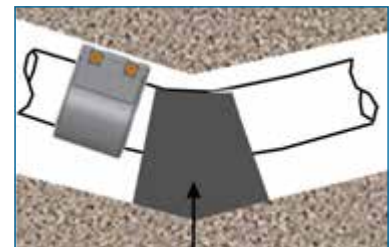
1 Sufficient back fill weight to prevent side thrust or buckling



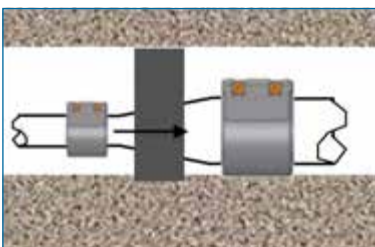
2 Tees
(e. g. concrete thrust blocks)



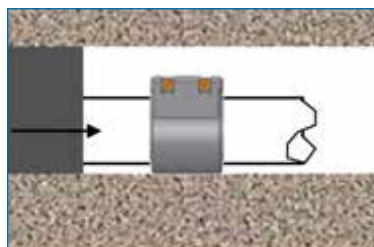
3 Bends
direction changes



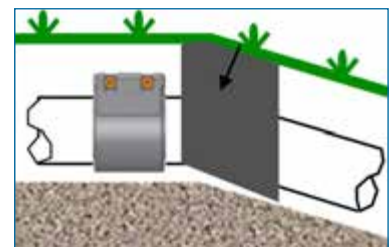
4 OD reductions



5 Blank ends



6 Inclination changes



The arrows indicate the counterforce of the abutment.

Freely installed pipelines

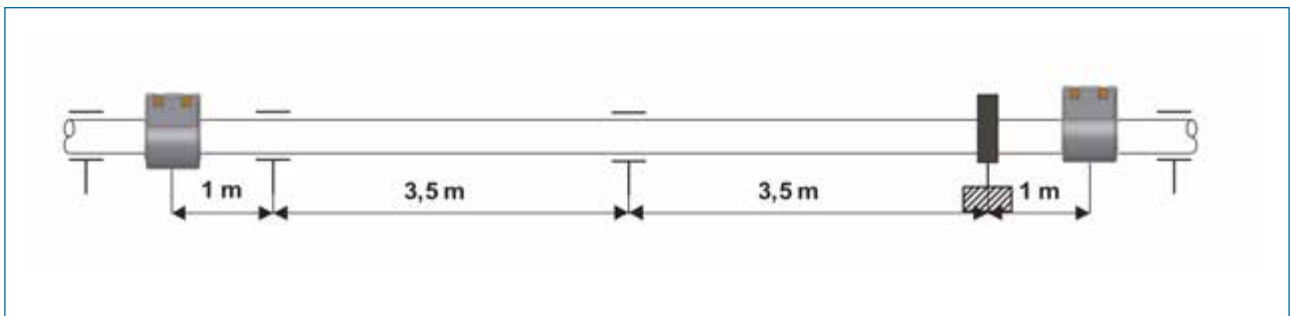


UNI-Coupling pipe couplings do not absorb axial forces.

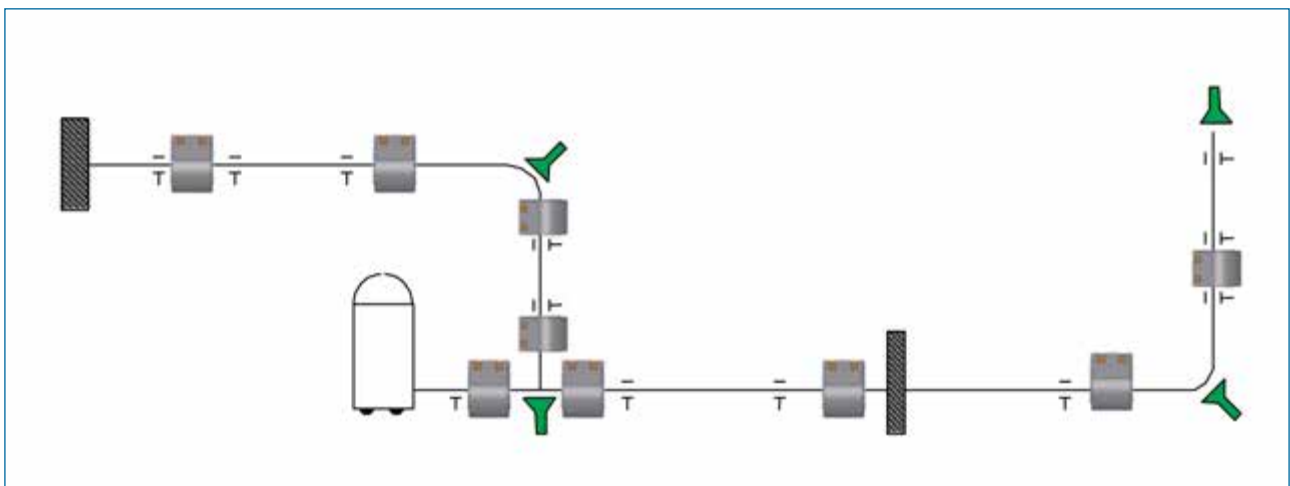
Important: Pressure lines must be supported, anchored and guided. Depending on the installation situation, supports have to be changed to anchor points.

Guideline: One anchor point and at least one guide point per pipe section!

Structural measures for freely installed pipelines – example for a 9-meter pipe length



Application example



Installation of vertical pipelines

UNI-Grip pipe couplings are the ideal joints to keep plain-ended metal pipe sections in vertical installations perfectly tight and axially restrained.

In the extreme case of a vertical, free-hanging pump pressure mains, the forces arising for each coupling are calculated based on the following values:

- weight of pipe sections
- weight of couplings (joints)
- weight of pump
- weight of water column in pipes
- force factor resulting from internal pressure and possible pressure surges

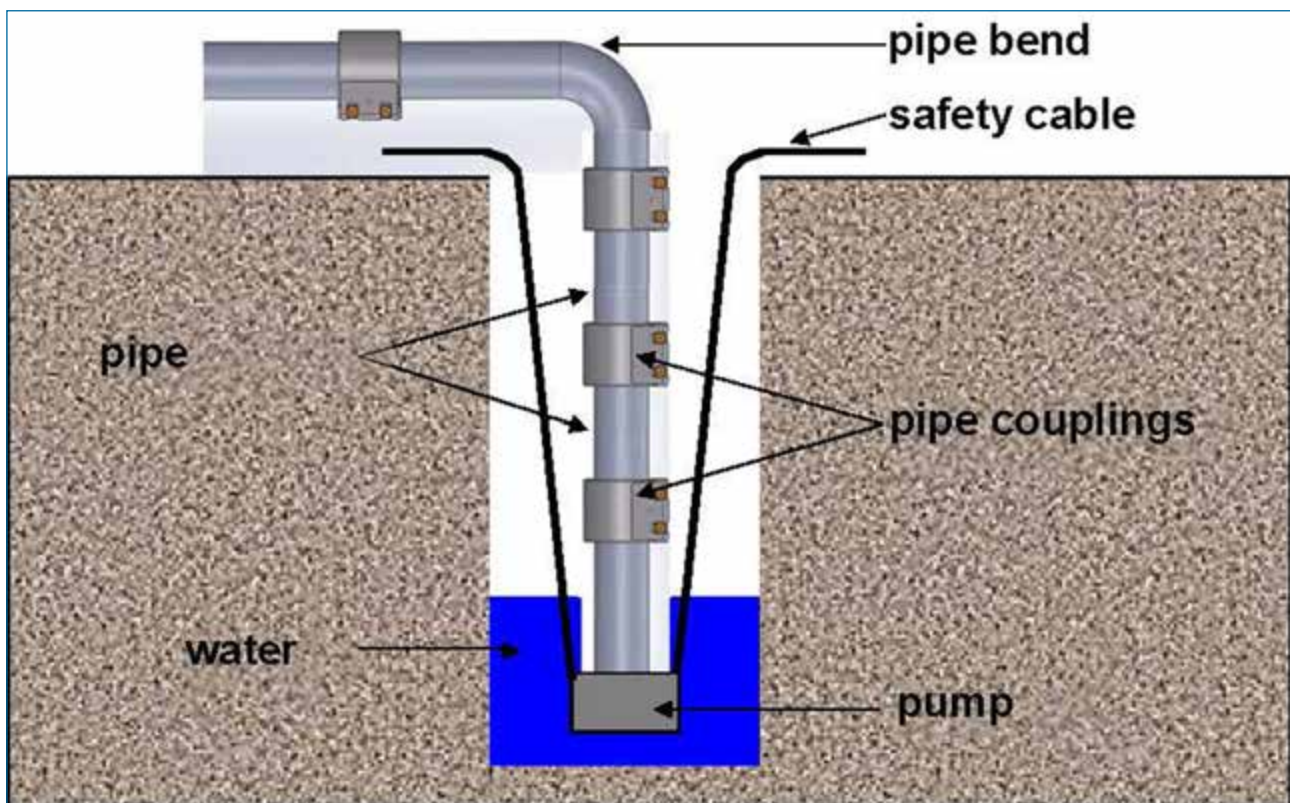
UNI-Grip, UNI-Combigrrip and UNI-Plastgrip pipe couplings deliver sufficient resistance against torsion, resulting from switching the pump on or off. (Please consult pump manufacturer for details.)

Application examples:

- drilling hole pump lines
- fresh water pump lines
- heat pumps
- shaft pipelines
- charge and discharge systems of silos, tanks and containers



Note: The application of UNI-Combigrrip and UNI-Plastgrip couplings for installation of vertical pipelines is not recommended.



Electrical conductivity UNI-Flex/UNI-Rep

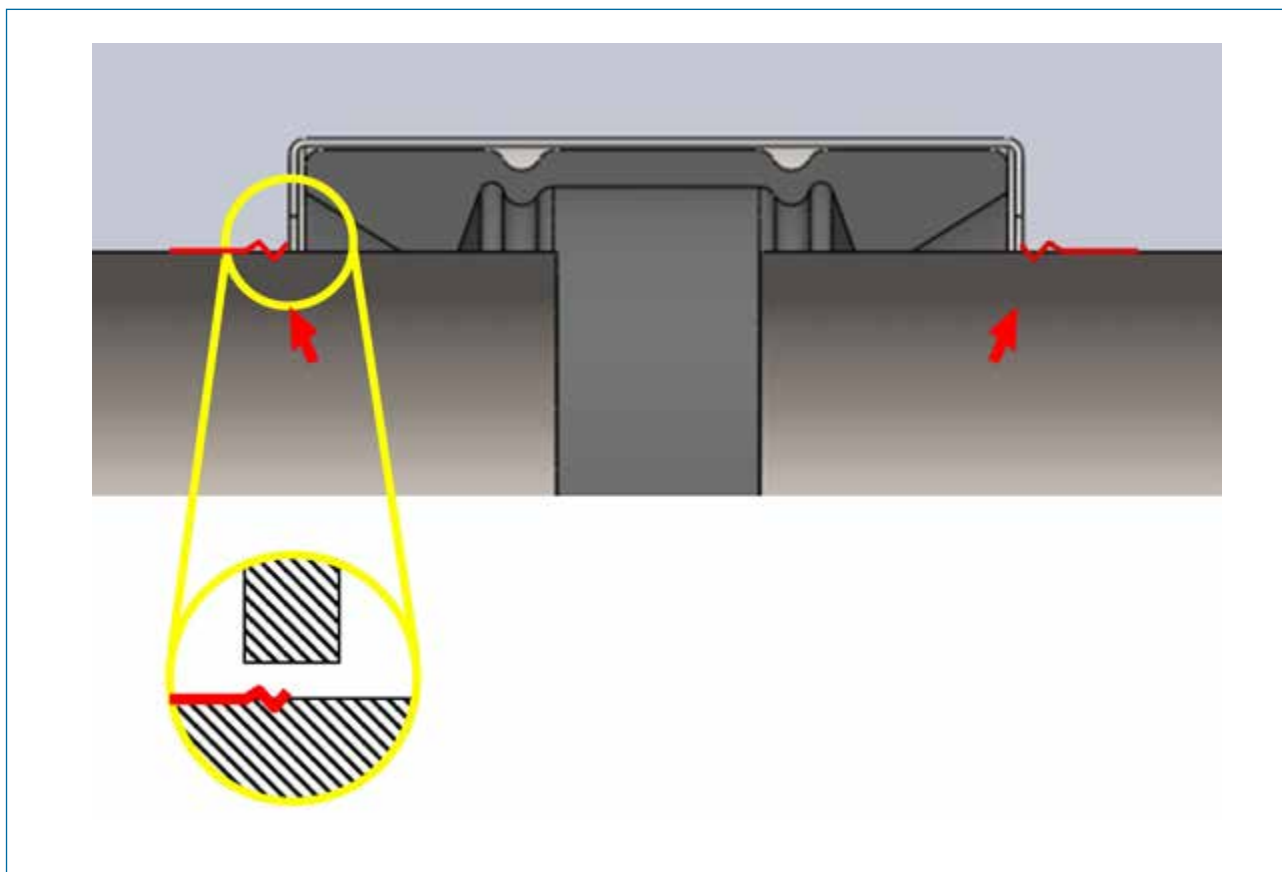


UNI-Flex and UNI-Rep pipe couplings do NOT provide electrical conductivity from pipe to pipe.

However, they should not be used as 'insulation'. Even under prescribed installation conditions, an electrical contact between the housing of the coupling or the strip insert and the pipe surface can occur.

If electrical conductivity is required, it can be achieved by bridging over the coupling from pipe to pipe with an earth strap.

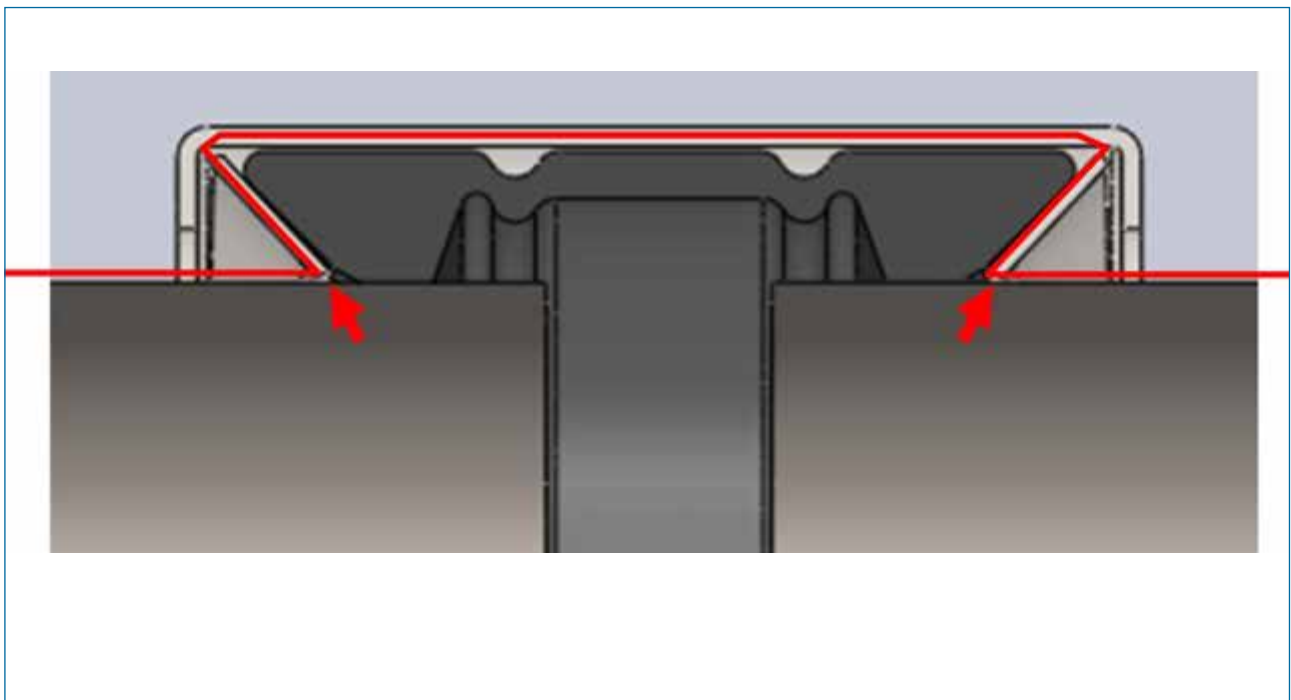
Should it be necessary to prevent electrical conductivity of the pipe joint, electrical insulation of the pipeline elements can be achieved by coupling-in a section of plastic pipe, measuring one meter in length.



Electrical conductivity UNI-Grip

UNI-Grip pipe couplings guarantee electrical conductivity for metal-to-metal piping by bridging over from pipe to pipe through the metallic anchoring mechanism.

Measurements have proven a sufficiently low electrical transition resistance of UNI-Grip pipe couplings.



Electrical conductivity is ensured thanks to the anchoring rings gripping into the pure metallic surface of the pipe.



Note: Because of the use of plastic pipes, there is no electrical conductivity with UNI-Combigrip and UNI-Plastgrip pipe couplings.

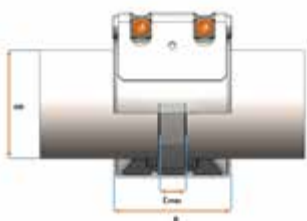
Product- range



	UNI-Grip	44
	UNI-Plastgrip	52
	UNI-Combigrip	55
	UNI-Flex	58
	UNI-Rep	71
	Stützhülse	79
	Accessories	82

UNI-Grip

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UNI-Grip S coupling stainless steel 1.4571 Tensile-resistant connection of metal and metal PN16 Solid bolt

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) for OD nominal ≥ 185 mm on request

*Restricted working conditions for CuNiFe tubes with a wall thickness \leq to 4 mm. For pipe dimensions with an asterisk, these may only be loaded with max PN 2,5.

Attention:

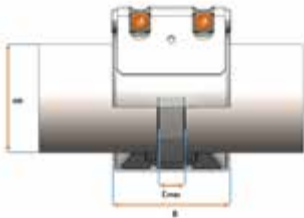
- The difference between the different pipe outside diameters OD1-OD2 is 1% or max. 3 mm.

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
21.0 - 24.0	779 764 001	779 762 001	0.2
25.0 - 29.0	779 764 002	779 762 002	0.2
29.0 - 32.0	779 764 003	779 762 003	0.2
33.0 - 36.0	779 764 004	779 762 004	0.2
36.0 - 39.0	779 764 005	779 762 005	0.4
39.0 - 43.0	779 764 006	779 762 006	0.4
43.0 - 47.5	779 764 007	779 762 007	0.4
47.5 - 52.5	779 764 008	779 762 008	0.4
52.5 - 58.0	779 764 009	779 762 009	0.6
58.0 - 64.0	779 764 010	779 762 010	0.6
64.0 - 72.0	779 764 011	779 762 011	1.4
72.0 - 80.0	779 764 012	779 762 012	1.4
80.0 - 88.0	779 764 013	779 762 013	1.6
88.0 - 96.0	779 764 014	779 762 014	1.6
97.0 - 105.0	779 764 015	779 762 015	1.7
104.0 - 112.0	779 764 016	779 762 016	1.7
112.0 - 120.0	779 764 017	779 762 017	1.9
122.0 - 130.0	779 764 018	779 762 018	1.9
129.0 - 137.0	779 764 019	779 762 019	3.4
137.0 - 145.0	779 764 020	779 762 020	3.5
149.0 - 157.0	779 764 021	779 762 021	3.6
157.0 - 165.0	779 764 022	779 762 022	3.7
164.0 - 172.0	779 764 023	779 762 023	3.8
185.0 - 198.0	779 764 024	779 762 024	6.5
198.0 - 211.0	779 764 025	779 762 025	6.7
210.0 - 223.0	779 764 026	779 762 026	9.2
221.0 - 234.0	779 764 027	779 762 027	9.5
234.0 - 247.0	779 764 028	779 762 028	9.8
247.0 - 260.0	779 764 029	779 762 029	10.1
* 263.0 - 276.0	779 764 030	779 762 030	10.5
277.0 - 290.0	779 764 031	779 762 031	10.9

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
21.0 - 24.0	16	70	21.0	24.0	46	45	76
25.0 - 29.0	16	70	25.0	29.0	46	45	76
29.0 - 32.0	16	70	29.0	32.0	54	45	84
33.0 - 36.0	16	70	33.0	36.0	54	45	84
36.0 - 39.0	16	60	36.0	39.0	66	60	104
39.0 - 43.0	16	50	39.0	43.0	66	60	104
43.0 - 47.5	16	50	43.0	47.5	74	60	112
47.5 - 52.5	16	50	47.5	52.5	74	60	112
52.5 - 58.0	16	50	52.5	58.0	85	75	125

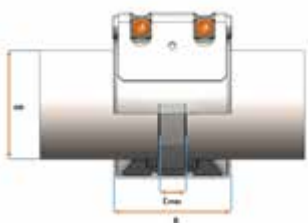
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OD nominal (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
58.0 - 64.0	16	40	58.0	64.0	85	75	125
64.0 - 72.0	16	40	64.0	72.0	108	95	164
72.0 - 80.0	16	40	72.0	80.0	108	95	164
80.0 - 88.0	16	35	80.0	88.0	124	95	170
88.0 - 96.0	16	35	88.0	96.0	124	95	170
97.0 - 105.0	16	35	97.0	105.0	141	95	187
104.0 - 112.0	16	35	104.0	112.0	141	95	187
112.0 - 120.0	16	35	112.0	120.0	158	95	202
122.0 - 130.0	16	32	122.0	130.0	158	95	202
129.0 - 137.0	16	32	129.0	137.0	178	110	230
137.0 - 145.0	16	32	137.0	145.0	186	110	238
149.0 - 157.0	16	32	149.0	157.0	197	110	249
157.0 - 165.0	16	32	157.0	165.0	205	110	255
164.0 - 172.0	16	32	164.0	172.0	212	110	262
185.0 - 198.0	16	25	185.0	198.0	236	138	262
198.0 - 211.0	16	25	198.0	211.0	249	138	275
210.0 - 223.0	16	25	210.0	223.0	261	140	287
221.0 - 234.0	16	25	221.0	234.0	272	140	298
234.0 - 247.0	16	25	234.0	247.0	285	140	311
247.0 - 260.0	16	25	247.0	260.0	298	140	324
* 263.0 - 276.0	16	25	263.0	276.0	314	140	340
277.0 - 290.0	16	25	277.0	290.0	328	142	354

UNI-Grip S / SE coupling stainless steel 1.4571
Tensile-resistant connection of metal and metal
PN10 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request
- *Restricted working conditions for CuNiFe tubes with a wall thickness ≤ to 4 mm. For pipe dimensions with an asterisk, these may only be loaded with max PN 2,5.

Attention:

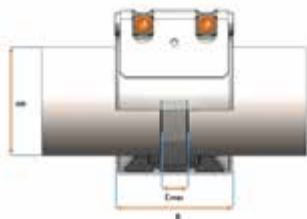
- **The difference between the different pipe outside diameters OD1-OD2 is 1% or max. 3 mm.**

	OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
	64 - 72	779 724 411	779 721 411	1.0
	72 - 80	779 724 412	779 721 412	1.0
	80 - 88	779 724 413	779 721 413	1.0
	88 - 96	779 724 414	779 721 414	1.0
	97 - 105	779 724 415	779 721 415	1.1
	104 - 112	779 724 416	779 721 416	1.1
	112 - 120	779 724 417	779 721 417	1.2
	122 - 130	779 724 418	779 721 418	1.2
	129 - 137	779 724 419	779 721 419	2.1
	137 - 145	779 724 420	779 721 420	2.2
	149 - 157	779 724 421	779 721 421	2.3
	157 - 165	779 724 422	779 721 422	2.3
	164 - 172	779 724 423	779 721 423	2.4
	210 - 223	779 764 126	779 762 126	6.9
	221 - 234	779 764 127	779 762 127	7.0
	234 - 247	779 764 128	779 762 128	7.2
	247 - 260	779 764 129	779 762 129	7.5
*	263 - 276	779 764 130	779 762 130	7.7
*	277 - 290	779 764 131	779 762 131	7.9
*	288 - 301	779 764 132	779 762 132	11.1
*	301 - 314	779 764 133	779 762 133	11.5
*	315 - 328	779 764 134	779 762 134	11.8
*	327 - 340	779 764 135	779 762 135	12.1
*	340 - 353	779 764 136	779 762 136	12.4
*	350 - 363	779 764 137	779 762 137	12.7
*	361 - 374	779 764 138	779 762 138	13.0

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
64 - 72	10	16	64	72	108	95	164
72 - 80	10	16	72	80	108	95	164
80 - 88	10	16	80	88	124	95	170
88 - 96	10	16	88	96	124	95	170
97 - 105	10	16	97	105	141	95	187
104 - 112	10	16	104	112	141	95	187
112 - 120	10	16	112	120	158	95	202
122 - 130	10	16	122	130	158	95	202
129 - 137	10	16	129	137	178	110	230
137 - 145	10	16	137	145	186	110	238
149 - 157	10	16	149	157	197	110	249
157 - 165	10	16	157	165	205	110	255
164 - 172	10	16	164	172	212	110	262
210 - 223	10	16	210	223	261	138	287
221 - 234	10	16	221	234	272	138	298
234 - 247	10	16	234	247	285	138	311

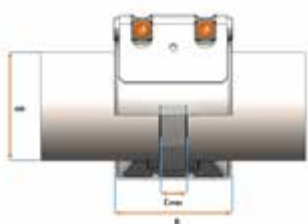
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	OD nominal (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
	247 - 260	10	16	247	260	298	138	324
*	263 - 276	10	16	263	276	314	138	340
*	277 - 290	10	16	277	290	328	140	354
*	288 - 301	10	16	288	301	339	140	365
*	301 - 314	10	16	301	314	352	140	378
*	315 - 328	10	16	315	328	366	140	392
*	327 - 340	10	16	327	340	378	140	404
*	340 - 353	10	16	340	353	391	140	417
*	350 - 363	10	16	350	363	401	140	427
*	361 - 374	10	16	361	374	412	142	438

UNI-Grip S coupling stainless steel 1.4571
Tensile-resistant connection of metal and metal
PN6 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request
- *Restricted working conditions for CuNiFe tubes with a wall thickness ≤ to 4 mm. For pipe dimensions with an asterisk, these may only be loaded with max PN 2,5.

Attention:

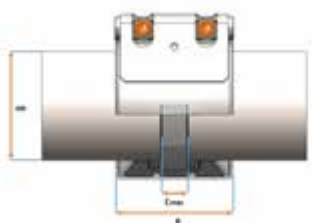
- **The difference between the different pipe outside diameters OD1-OD2 is 1% or max. 3 mm.**

	OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
	185 - 198	779 764 224	779 762 224	5.4
	198 - 211	779 764 225	779 762 225	5.6
	210 - 223	779 764 226	779 762 226	5.7
	221 - 234	779 764 227	779 762 227	5.9
	234 - 247	779 764 228	779 762 228	6.1
	247 - 260	779 764 229	779 762 229	6.2
*	263 - 276	779 764 230	779 762 230	6.5
*	277 - 290	779 764 231	779 762 231	6.7
*	288 - 301	779 764 232	779 762 232	8.1
*	301 - 314	779 764 233	779 762 233	8.3
*	315 - 328	779 764 234	779 762 234	8.5
*	327 - 340	779 764 235	779 762 235	8.7
*	340 - 353	779 764 236	779 762 236	8.9
*	350 - 363	779 764 237	779 762 237	9.1
*	361 - 374	779 764 238	779 762 238	9.3
*	374 - 387	779 764 239	779 762 239	13.3
*	387 - 400	779 764 240	779 762 240	13.6
*	400 - 413	779 764 241	779 762 241	13.9
	412 - 425	779 764 242	779 762 242	14.2
	422 - 435	779 764 243	779 762 243	14.5
	438 - 451	779 764 244	779 762 244	14.9
	451 - 464	779 764 245	779 762 245	15.2
	460 - 473	779 764 246	779 762 246	15.4
	476 - 489	779 764 247	779 762 247	15.8
	488 - 501	779 764 248	779 762 248	16.1
	503 - 516	779 764 249	779 762 249	16.5

	OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
	185 - 198	6	10	185	198	236	138	262
	198 - 211	6	10	198	211	249	138	275
	210 - 223	6	10	210	223	261	138	287
	221 - 234	6	10	221	234	272	138	298
	234 - 247	6	10	234	247	285	138	311
	247 - 260	6	10	247	260	298	138	324
*	263 - 276	6	10	263	276	314	138	340
*	277 - 290	6	10	277	290	328	140	354
*	288 - 301	6	10	288	301	339	140	365
*	301 - 314	6	10	301	314	352	140	378
*	315 - 328	6	10	315	328	366	140	392
*	327 - 340	6	10	327	340	378	140	404
*	340 - 353	6	10	340	353	391	140	417
*	350 - 363	6	10	350	362	401	140	427
*	361 - 374	6	10	361	374	412	142	438
*	374 - 387	6	10	374	387	425	142	451

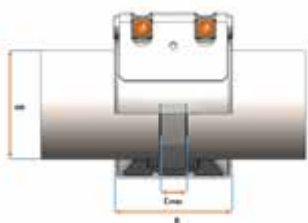
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	OD nominal (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
*	387 - 400	6	10	387	400	438	142	464
*	400 - 413	6	10	400	413	451	142	477
	412 - 425	6	10	412	425	463	138	489
	422 - 435	6	10	422	435	473	138	499
	438 - 451	6	10	438	451	489	138	515
	451 - 464	6	10	451	464	502	138	528
	460 - 473	6	10	460	473	511	138	537
	476 - 489	6	10	476	489	527	138	553
	488 - 501	6	10	488	501	539	138	565
	503 - 516	6	10	503	516	554	138	580

UNI-Grip S coupling stainless steel 1.4571
Tensile-resistant connection of metal and metal
PN2,5 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Attention:

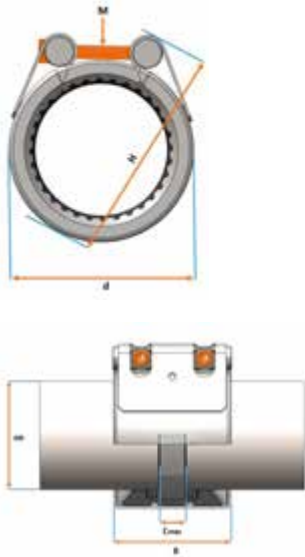
- The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
288 - 301	779 764 332	779 762 332	6.8
301 - 314	779 764 333	779 762 333	7.0
315 - 328	779 764 334	779 762 334	7.2
327 - 340	779 764 335	779 762 335	7.4
340 - 353	779 764 336	779 762 336	7.5
350 - 363	779 764 337	779 762 337	7.7
361 - 374	779 764 338	779 762 338	7.8
374 - 387	779 764 339	779 762 339	9.5
387 - 400	779 764 340	779 762 340	9.7
400 - 413	779 764 341	779 762 341	9.9
412 - 425	779 764 342	779 762 342	10.1
422 - 435	779 764 343	779 762 343	10.3
438 - 451	779 764 344	779 762 344	10.5
451 - 464	779 764 345	779 762 345	10.7
460 - 473	779 764 346	779 762 346	10.9
476 - 489	779 764 347	779 762 347	11.1
488 - 501	779 764 348	779 762 348	11.3
503 - 516	779 764 349	779 762 349	11.6
520 - 533	779 764 350	779 762 350	16.9
531 - 544	779 764 351	779 762 351	17.2
546 - 559	779 764 352	779 762 352	17.6
557 - 570	779 764 353	779 762 353	17.9
571 - 584	779 764 354	779 762 354	18.2
600 - 613	779 764 355	779 762 355	18.9
610 - 623	779 764 356	779 762 356	19.2
628 - 641	779 764 357	779 762 357	19.6
648 - 661	779 764 358	779 762 358	20.1
676 - 689	779 764 359	779 762 359	20.8
688 - 701	779 764 360	779 762 360	21.1
700 - 713	779 764 361	779 762 361	21.4
717 - 730	779 764 362	779 762 362	21.9
732 - 745	779 764 363	779 762 363	22.2

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
288 - 301	2.5	6	288	301	339	138	365
301 - 314	2.5	6	301	314	352	138	378
315 - 328	2.5	6	315	328	366	138	392
327 - 340	2.5	6	327	340	378	138	404
340 - 353	2.5	6	340	353	391	138	417
350 - 363	2.5	6	350	363	401	138	427
361 - 374	2.5	6	361	374	412	138	438
374 - 387	2.5	6	374	387	425	138	451
387 - 400	2.5	6	387	400	438	138	464
400 - 413	2.5	6	400	413	451	138	477
412 - 425	2.5	6	412	425	463	138	489
422 - 435	2.5	6	422	435	473	138	499

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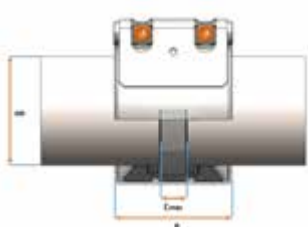


OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
438 - 451	2.5	6	438	451	489	138	515
451 - 464	2.5	6	451	464	502	138	528
460 - 473	2.5	6	460	473	511	138	537
476 - 489	2.5	6	476	489	527	138	553
488 - 501	2.5	6	488	501	539	138	565
503 - 516	2.5	6	503	516	554	138	580
520 - 533	2.5	6	520	533	575	140	603
531 - 544	2.5	6	531	544	586	140	614
546 - 559	2.5	6	546	559	601	140	629
557 - 570	2.5	6	557	570	612	140	640
571 - 584	2.5	6	571	584	626	140	654
600 - 613	2.5	6	600	613	655	140	683
610 - 623	2.5	6	610	623	665	140	693
628 - 641	2.5	6	628	641	683	140	711
648 - 661	2.5	6	648	661	703	140	731
676 - 689	2.5	6	676	689	731	140	759
688 - 701	2.5	6	688	701	743	140	771
700 - 713	2.5	6	700	713	755	140	783
717 - 730	2.5	6	717	730	772	140	800
732 - 745	2.5	6	732	745	787	140	815

UNI-Plastgrip

PF 1 D1 A89

UNI-Plastgrip S Coupling stainless steel 1.4571 Tensile-resistant connection of plastic and plastic PN10 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

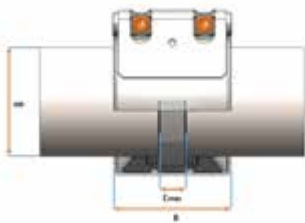
Attention:

- The difference between the different pipe outside diameters $OD1 < OD2$ is 1% or max. 3 mm.

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
39 - 43	779 732 006	779 729 006	0.4
48 - 53	779 732 008	779 729 008	0.5
58 - 64	779 732 010	779 729 010	0.6
72 - 80	779 732 012	779 729 012	1.4
88 - 96	779 732 014	779 729 014	1.5
104 - 112	779 732 016	779 729 016	1.7
122 - 130	779 732 018	779 729 018	1.8
137 - 145	779 732 020	779 729 020	3.5
157 - 165	779 732 022	779 729 022	3.7
172 - 185	779 712 024	779 709 024	6.0
195 - 208	779 712 025	779 709 025	6.6
215 - 228	779 712 027	779 709 027	7.0
247 - 260	779 712 029	779 709 029	7.5
269 - 282	779 712 030	779 709 030	8.7
312 - 325	779 712 031	779 709 031	11.1
350 - 363	779 712 032	779 709 032	12.2

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
39 - 43	10	16	39	43	66	60	104
48 - 53	10	16	48	53	74	60	112
58 - 64	10	16	58	64	85	75	125
72 - 80	10	16	72	80	108	95	164
88 - 96	10	16	88	96	124	95	170
104 - 112	10	16	104	112	141	95	187
122 - 130	10	16	122	130	158	95	202
137 - 145	10	16	137	145	186	110	238
157 - 165	10	16	157	165	205	110	255
172 - 185	10	16	172	185	223	138	259
195 - 208	10	16	195	208	246	138	272
215 - 228	10	16	215	228	272	138	298
247 - 260	10	16	247	260	298	138	324
269 - 282	10	16	269	282	320	142	346
312 - 325	10	16	312	325	363	146	389
350 - 363	10	16	350	363	401	146	427

UNI-Plastgrip S/S2 coupling stainless steel 1.4571
Tensile-resistant connection of plastic and plastic
PN6 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

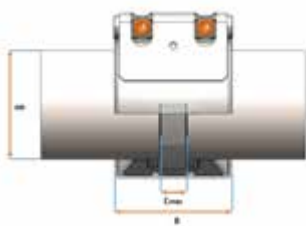
Attention:

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
172 - 185	779 742 024	779 739 024	5.0
195 - 208	779 742 025	779 739 025	5.4
215 - 228	779 742 027	779 739 027	5.8
247 - 260	779 742 029	779 739 029	6.5
269 - 282	779 742 030	779 739 030	6.9
312 - 325	779 742 031	779 739 031	8.6
350 - 363	779 742 032	779 739 032	9.5
395 - 408	779 742 033	779 739 033	13.5
447 - 460	779 742 034	779 739 034	17.5
502 - 515	779 742 035	779 739 035	19.3

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
172 - 185	6	10	172	185	223	140	259
195 - 208	6	10	195	208	246	140	272
215 - 228	6	10	215	228	272	140	298
247 - 260	6	10	247	260	298	140	324
269 - 282	6	10	269	282	320	140	346
312 - 325	6	10	312	325	363	142	389
350 - 363	6	10	350	363	401	142	427
395 - 408	6	10	395	408	446	146	472
447 - 460	6	10	447	460	498	146	524
502 - 515	6	10	502	515	553	146	579

UNI-Grip S/S2/S3/S4 coupling stainless steel 1.4571
Tensile-resistant connection of plastic and plastic
PN2,5 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

Attention:

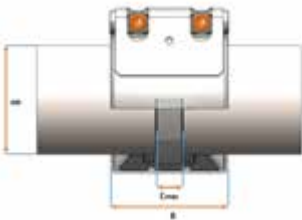
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
312 - 325	779 752 031	779 749 031	7.8
350 - 363	779 752 032	779 749 032	8.5
395 - 408	779 752 033	779 749 033	10.5
447 - 460	779 752 034	779 749 034	13.1
502 - 515	779 752 035	779 749 035	14.5
557 - 570	779 752 036	779 749 036	21.1
627 - 640	779 752 037	779 749 037	23.5

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
312 - 325	2.5	6	312	325	363	140	389
350 - 363	2.5	6	350	363	401	140	427
395 - 408	2.5	6	395	408	446	142	472
447 - 460	2.5	6	447	460	498	142	524
502 - 515	2.5	6	502	515	553	142	579
557 - 570	2.5	6	557	570	608	146	634
627 - 640	2.5	6	627	640	678	146	704

UNI-Combigrip

PF 1 D1 A90



UNI-Combigrip S coupling stainless steel 1.4571 Tensile-resistant connection of metal and plastic PN10 Solid bolt

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

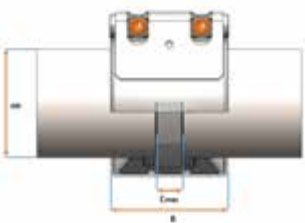
Attention:

- The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
39.0 - 43.0	779 740 006	779 737 006	0.4
47.5 - 52.5	779 740 008	779 737 008	0.5
58.0 - 64.0	779 740 010	779 737 010	0.6
72.0 - 80.0	779 740 012	779 737 012	1.4
88.0 - 96.0	779 740 014	779 737 014	1.5
104.0 - 112.0	779 740 016	779 737 016	1.7
108.0 - 115.0	779 740 017	779 737 017	1.7
122.0 - 130.0	779 740 018	779 737 018	1.8
137.0 - 145.0	779 740 020	779 737 020	3.5
157.0 - 165.0	779 740 022	779 737 022	3.7
172.0 - 185.0	779 724 924	779 721 924	6.2
195.0 - 208.0	779 724 925	779 721 925	6.8
215.0 - 228.0	779 724 926	779 721 926	7.3
247.0 - 260.0	779 724 927	779 721 927	8.1
269.0 - 282.0	779 724 928	779 721 928	8.7
312.0 - 325.0	779 724 929	779 721 929	11.1
350.0 - 363.0	779 724 930	779 721 930	12.2

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
39.0 - 43.0	10	16	39	43	66	60	104
47.5 - 52.5	10	16	48	53	74	60	112
58.0 - 64.0	10	16	58	64	85	75	125
72.0 - 80.0	10	16	72	80	108	95	164
88.0 - 96.0	10	16	88	96	124	95	170
104.0 - 112.0	10	16	104	112	141	95	187
108.0 - 115.0	10	16	108	115	141	95	187
122.0 - 130.0	10	16	122	130	158	95	202
137.0 - 145.0	10	16	137	145	186	110	238
157.0 - 165.0	10	16	157	165	205	110	255
172.0 - 185.0	10	16	172	185	223	142	249
195.0 - 208.0	10	16	195	208	246	142	272
215.0 - 228.0	10	16	215	228	266	142	292
247.0 - 260.0	10	16	247	260	298	142	324
269.0 - 282.0	10	16	269	282	320	142	346
312.0 - 325.0	10	16	312	325	363	142	389
350.0 - 363.0	10	16	350	363	401	142	427

UNI-Combigrip S/S2 coupling stainless steel 1.4571
Tensile-resistant connection of metal and plastic
PN6 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

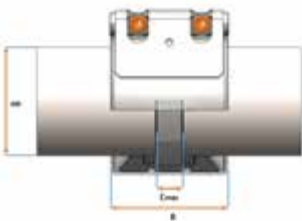
Attention:

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

OD nominal (mm) (mm)	EPDM Code	Weight (kg)	NBR Code
172 - 185	779 750 924	5.0	779 747 924
195 - 208	779 750 925	5.4	779 747 925
215 - 228	779 750 926	5.8	779 747 926
247 - 260	779 750 927	6.5	779 747 927
269 - 282	779 750 928	6.9	779 747 928
312 - 325	779 750 929	8.6	779 747 929
350 - 363	779 750 930	9.5	779 747 930
395 - 408	779 750 931	13.5	779 747 931
447 - 460	779 750 932	17.5	779 747 932
502 - 515	779 750 933	19.3	779 747 933

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
172 - 185	6	10	172	185	223	140	249
195 - 208	6	10	195	208	246	140	272
215 - 228	6	10	215	228	266	140	292
247 - 260	6	10	247	260	298	140	324
269 - 282	6	10	269	282	320	140	346
312 - 325	6	10	312	325	363	142	389
350 - 363	6	10	350	363	401	142	427
395 - 408	6	10	395	408	446	146	472
447 - 460	6	10	447	460	498	146	524
502 - 515	6	10	502	515	553	146	579

UNI-Combigrip S/S2/S3/S4 coupling stainless steel 1.4571
Tensile-resistant connection of metal and plastic
PN2,5 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

Attention:

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
312 - 325	779 760 929	779 757 929	7.8
350 - 363	779 760 930	779 757 930	8.5
395 - 408	779 760 931	779 757 931	10.5
447 - 460	779 760 932	779 757 932	13.1
502 - 515	779 760 933	779 757 933	14.5
557 - 570	779 760 934	779 757 934	21.1
627 - 640	779 760 935	779 757 935	23.5

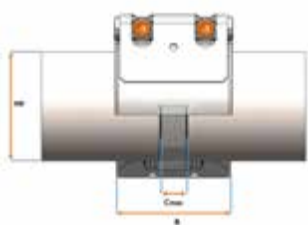
OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
312 - 325	2.5	6	312	325	363	140	389
350 - 363	2.5	6	350	363	401	140	427
395 - 408	2.5	6	395	408	446	142	472
447 - 460	2.5	6	447	460	498	142	524
502 - 515	2.5	6	502	515	553	142	579
557 - 570	2.5	6	557	570	608	146	634
627 - 640	2.5	6	627	640	678	146	704

UNI-Flex

PF 1 D1 A92

UNI-Flex S coupling stainless steel 1.4571

Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
PN16 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

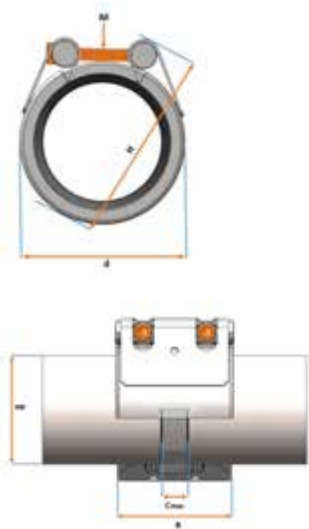
For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

Attention:

- The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
21.0 - 24.0	779 812 001	779 809 001	0.2
25.0 - 29.0	779 812 002	779 809 002	0.2
29.0 - 32.0	779 812 003	779 809 003	0.2
33.0 - 36.0	779 812 004	779 809 004	0.2
36.0 - 39.0	779 812 005	779 809 005	0.4
39.0 - 43.0	779 812 006	779 809 006	0.4
43.0 - 47.5	779 812 007	779 809 007	0.4
47.5 - 52.5	779 812 008	779 809 008	0.4
52.5 - 58.0	779 812 009	779 809 009	0.6
58.0 - 64.0	779 812 010	779 809 010	0.6
64.0 - 72.0	779 812 011	779 809 011	1.0
72.0 - 80.0	779 812 012	779 809 012	1.0
80.0 - 88.0	779 812 013	779 809 013	1.0
88.0 - 96.0	779 812 014	779 809 014	1.0
97.0 - 105.0	779 812 015	779 809 015	1.1
104.0 - 112.0	779 812 016	779 809 016	1.1
112.0 - 120.0	779 812 017	779 809 017	1.2
122.0 - 130.0	779 812 018	779 809 018	1.2
129.0 - 137.0	779 812 019	779 809 019	2.1
137.0 - 145.0	779 812 020	779 809 020	2.2
149.0 - 157.0	779 812 021	779 809 021	2.3
157.0 - 165.0	779 812 022	779 809 022	2.3
164.0 - 172.0	779 812 023	779 809 023	2.4
185.0 - 198.0	779 864 024	779 862 024	5.0
198.0 - 211.0	779 864 025	779 862 025	5.2
210.0 - 223.0	779 864 026	779 862 026	5.3
221.0 - 234.0	779 864 027	779 862 027	5.5
234.0 - 247.0	779 864 028	779 862 028	5.6
247.0 - 260.0	779 864 029	779 862 029	5.8
263.0 - 276.0	779 864 030	779 862 030	6.0
288.0 - 301.0	779 864 032	779 862 032	7.8
277.0 - 290.0	779 864 031	779 862 031	7.6
301.0 - 314.0	779 864 033	779 862 033	8.0
315.0 - 328.0	779 864 034	779 862 034	8.2
327.0 - 340.0	779 864 035	779 862 035	8.4
340.0 - 353.0	779 864 036	779 862 036	8.6
350.0 - 363.0	779 864 037	779 862 037	8.8
361.0 - 374.0	779 864 038	779 862 038	12.6
374.0 - 387.0	779 864 039	779 862 039	12.9
387.0 - 400.0	779 864 040	779 862 040	13.3
400.0 - 413.0	779 864 041	779 862 041	13.6
412.0 - 425.0	779 864 042	779 862 042	13.9

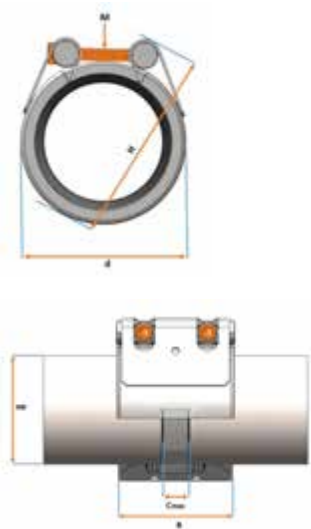
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OD nominal (mm)	EPDM Code	NBR Code	Weight (kg)
422.0 - 435.0	779 864 043	779 862 043	14.1
438.0 - 451.0	779 864 044	779 862 044	14.5
451.0 - 464.0	779 864 045	779 862 045	14.9
460.0 - 473.0	779 864 046	779 862 046	15.1
476.0 - 489.0	779 864 047	779 862 047	15.5
488.0 - 501.0	779 864 048	779 862 048	15.8
503.0 - 516.0	779 864 049	779 862 049	16.2
520.0 - 533.0	779 864 050	779 862 050	16.6
531.0 - 544.0	779 864 051	779 862 051	16.9
546.0 - 559.0	779 864 052	779 862 052	17.2
557.0 - 570.0	779 864 053	779 862 053	17.5
571.0 - 584.0	779 864 054	779 862 054	17.9
600.0 - 613.0	779 864 055	779 862 055	18.6
610.0 - 623.0	779 864 056	779 862 056	18.9
628.0 - 641.0	779 864 057	779 862 057	19.3
648.0 - 661.0	779 864 058	779 862 058	19.8
676.0 - 689.0	779 864 059	779 862 059	20.5
688.0 - 701.0	779 864 060	779 862 060	20.8
700.0 - 713.0	779 864 061	779 862 061	21.1
717.0 - 730.0	779 864 062	779 862 062	21.5
732.0 - 745.0	779 864 063	779 862 063	21.9

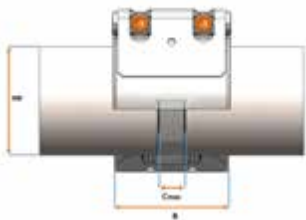
OD nominal (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
21.0 - 24.0	16	25	21	24	46	45	76
25.0 - 29.0	16	25	25	29	46	45	76
29.0 - 32.0	16	25	29	32	54	45	84
33.0 - 36.0	16	25	33	36	54	45	84
36.0 - 39.0	16	25	36	39	66	60	104
39.0 - 43.0	16	25	39	43	66	60	104
43.0 - 47.5	16	25	43	48	74	60	112
47.5 - 52.5	16	25	48	53	74	60	112
52.5 - 58.0	16	25	53	58	85	75	125
58.0 - 64.0	16	25	58	64	85	75	125
64.0 - 72.0	16	25	64	72	108	95	164
72.0 - 80.0	16	25	72	80	108	95	164
80.0 - 88.0	16	25	80	88	124	95	170
88.0 - 96.0	16	25	88	96	124	95	170
97.0 - 105.0	16	25	97	105	141	95	187
104.0 - 112.0	16	25	104	112	141	95	187
112.0 - 120.0	16	25	112	120	158	95	202
122.0 - 130.0	16	25	122	130	158	95	202
129.0 - 137.0	16	25	129	137	178	110	230
137.0 - 145.0	16	25	137	145	186	110	238
149.0 - 157.0	16	25	149	157	197	110	249
157.0 - 165.0	16	25	157	165	205	110	255
164.0 - 172.0	16	25	164	172	212	110	262
185.0 - 198.0	16	25	185	198	262	140	236
198.0 - 211.0	16	25	198	211	249	140	275
210.0 - 223.0	16	25	210	223	261	140	287
221.0 - 234.0	16	25	221	234	272	140	298
234.0 - 247.0	16	25	234	247	285	140	311
247.0 - 260.0	16	25	247	260	298	140	324
263.0 - 276.0	16	25	263	276	314	140	340
288.0 - 301.0	16	25	288	301	339	142	365
277.0 - 290.0	16	25	277	290	328	142	354
301.0 - 314.0	16	25	301	314	352	142	378
315.0 - 328.0	16	25	315	328	366	142	392
327.0 - 340.0	16	25	327	340	378	142	404
340.0 - 353.0	16	25	340	353	391	142	417
350.0 - 363.0	16	25	350	363	401	142	427

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OD nominal (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
361.0 - 374.0	16	25	361	374	412	146	438
374.0 - 387.0	16	25	374	387	425	146	451
387.0 - 400.0	16	25	387	400	438	146	464
400.0 - 413.0	16	25	400	413	451	146	477
412.0 - 425.0	16	25	412	425	463	146	489
422.0 - 435.0	16	25	422	435	473	146	499
438.0 - 451.0	16	25	438	451	489	146	515
451.0 - 464.0	16	25	451	464	502	146	528
460.0 - 473.0	16	25	460	473	511	146	537
476.0 - 489.0	16	25	476	489	527	146	553
488.0 - 501.0	16	25	488	501	539	146	565
503.0 - 516.0	16	25	503	516	554	146	580
520.0 - 533.0	16	25	520	533	575	146	603
531.0 - 544.0	16	25	531	544	586	146	614
546.0 - 559.0	16	25	546	559	601	146	629
557.0 - 570.0	16	25	557	570	612	146	640
571.0 - 584.0	16	25	571	584	626	146	654
600.0 - 613.0	16	25	600	613	655	146	683
610.0 - 623.0	16	25	610	623	665	146	693
628.0 - 641.0	16	25	628	641	683	146	711
648.0 - 661.0	16	25	648	661	703	146	731
676.0 - 689.0	16	25	676	689	731	146	759
688.0 - 701.0	16	25	688	701	743	146	771
700.0 - 713.0	16	25	700	713	755	146	783
717.0 - 730.0	16	25	717	730	772	146	800
732.0 - 745.0	16	25	732	745	787	146	815

UNI-Flex S2 coupling stainless steel 1.4571
Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
PN16 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

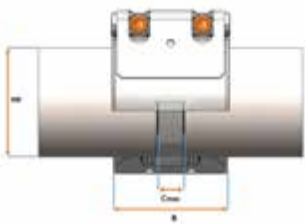
Attention:

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
756 - 782	779 864 064	779 862 064	26.1
782 - 808	779 864 065	779 862 065	26.7
806 - 832	779 864 066	779 862 066	27.3
828 - 854	779 864 067	779 862 067	27.9
856 - 882	779 864 068	779 862 068	28.6
882 - 908	779 864 069	779 862 069	29.2
904 - 930	779 864 070	779 862 070	29.8

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
756 - 782	16	25	756	782	824	146	852
782 - 808	16	25	782	808	850	146	878
806 - 832	16	25	806	832	874	146	902
828 - 854	16	25	828	854	896	146	924
856 - 882	16	25	856	882	924	146	952
882 - 908	16	25	882	908	950	146	978
904 - 930	16	25	904	930	972	146	1000

UNI-Flex S coupling stainless steel 1.4571
Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
PN10 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

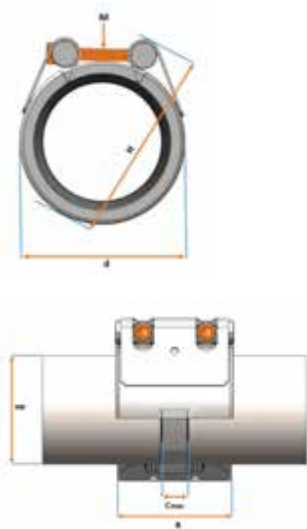
For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

Attention:

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

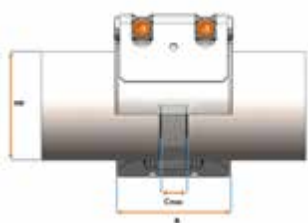
OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
185 - 198	779 864 124	779 862 124	3.9
198 - 211	779 864 125	779 862 125	4.0
210 - 223	779 864 126	779 862 126	4.1
221 - 234	779 864 127	779 862 127	4.2
234 - 247	779 864 128	779 862 128	4.3
247 - 260	779 864 129	779 862 129	4.4
263 - 276	779 864 130	779 862 130	4.6
277 - 290	779 864 131	779 862 131	6.1
288 - 301	779 864 132	779 862 132	6.3
301 - 314	779 864 133	779 862 133	6.4
315 - 328	779 864 134	779 862 134	6.6
327 - 340	779 864 135	779 862 135	6.8
340 - 353	779 864 136	779 862 136	6.9
350 - 363	779 864 137	779 862 137	7.0
361 - 374	779 864 138	779 862 138	8.9
374 - 387	779 864 139	779 862 139	9.1
387 - 400	779 864 140	779 862 140	9.4
400 - 413	779 864 141	779 862 141	9.6
412 - 425	779 864 142	779 862 142	9.8
422 - 435	779 864 143	779 862 143	9.9
438 - 451	779 864 144	779 862 144	10.2
451 - 464	779 864 145	779 862 145	10.4
460 - 473	779 864 146	779 862 146	10.5
476 - 489	779 864 147	779 862 147	10.8
488 - 501	779 864 148	779 862 148	11.0
503 - 516	779 864 149	779 862 149	11.2
520 - 533	779 864 150	779 862 150	11.5
531 - 544	779 864 151	779 862 151	11.7
546 - 559	779 864 152	779 862 152	11.9
557 - 570	779 864 153	779 862 153	12.1
571 - 584	779 864 154	779 862 154	12.3
600 - 613	779 864 155	779 862 155	12.8
610 - 623	779 864 156	779 862 156	12.9
628 - 641	779 864 157	779 862 157	13.2
648 - 661	779 864 158	779 862 158	13.5
676 - 689	779 864 159	779 862 159	14.0
688 - 701	779 864 160	779 862 160	14.2
700 - 713	779 864 161	779 862 161	14.4
717 - 730	779 864 162	779 862 162	14.7
732 - 745	779 864 163	779 862 163	14.9

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OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
185 - 198	10	16	185	198	236	138	262
198 - 211	10	16	198	211	249	138	275
210 - 223	10	16	210	223	261	138	287
221 - 234	10	16	221	234	272	138	298
234 - 247	10	16	234	247	285	138	311
247 - 260	10	16	247	260	298	138	324
263 - 276	10	16	263	276	314	138	340
277 - 290	10	16	277	290	328	140	354
288 - 301	10	16	288	301	339	140	365
301 - 314	10	16	301	314	352	140	378
315 - 328	10	16	315	328	366	140	392
327 - 340	10	16	327	340	378	140	404
340 - 353	10	16	340	353	391	140	417
350 - 363	10	16	350	363	401	140	427
361 - 374	10	16	361	374	412	142	438
374 - 387	10	16	374	387	425	142	451
387 - 400	10	16	387	400	438	142	464
400 - 413	10	16	400	413	451	142	477
412 - 425	10	16	412	425	463	142	489
422 - 435	10	16	422	435	473	142	499
438 - 451	10	16	438	451	489	142	515
451 - 464	10	16	451	464	502	142	528
460 - 473	10	16	460	473	511	142	537
476 - 489	10	16	476	489	527	142	553
488 - 501	10	16	488	501	539	142	565
503 - 516	10	16	503	516	554	142	580
520 - 533	10	16	520	533	575	142	603
531 - 544	10	16	531	544	586	142	614
546 - 559	10	16	546	559	601	142	629
557 - 570	10	16	557	570	612	142	640
571 - 584	10	16	571	584	626	142	654
600 - 613	10	16	600	613	655	142	683
610 - 623	10	16	610	623	665	142	693
628 - 641	10	16	628	641	683	142	711
648 - 661	10	16	648	661	703	142	731
676 - 689	10	16	676	689	731	142	759
688 - 701	10	16	688	701	743	142	771
700 - 713	10	16	700	713	755	142	783
717 - 730	10	16	717	730	772	142	800
732 - 745	10	16	732	745	787	142	815

UNI-Flex S2/S3 coupling stainless steel 1.4571
Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
PN10 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

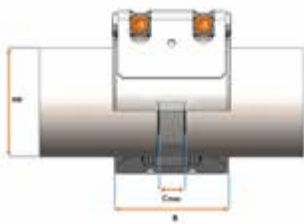
Attention:

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
756 - 782	779 864 164	779 862 164	18.4
782 - 808	779 864 165	779 862 165	18.8
806 - 832	779 864 166	779 862 166	19.2
828 - 854	779 864 167	779 862 167	19.6
856 - 882	779 864 168	779 862 168	20.0
882 - 908	779 864 169	779 862 169	20.4
904 - 930	779 864 170	779 862 170	20.8
936 - 962	779 864 171	779 862 171	30.6
961 - 987	779 864 172	779 862 172	31.2
984 - 1010	779 864 173	779 862 173	31.8
1004 - 1030	779 864 174	779 862 174	32.3
1044 - 1070	779 864 175	779 862 175	33.3
1076 - 1102	779 864 176	779 862 176	34.1
1104 - 1130	779 864 177	779 862 177	34.8
1138 - 1177	779 864 178	779 862 178	39.2
1192 - 1231	779 864 179	779 862 179	40.6
1241 - 1280	779 864 180	779 862 180	41.8
1331 - 1370	779 864 181	779 862 181	44.1
1413 - 1452	779 864 182	779 862 182	46.1

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
756 - 782	10	16	756	782	824	142	852
782 - 808	10	16	782	808	850	142	878
806 - 832	10	16	806	832	874	142	902
828 - 854	10	16	828	854	896	142	924
856 - 882	10	16	856	882	924	142	952
882 - 908	10	16	882	908	950	142	978
904 - 930	10	16	904	930	972	142	1000
936 - 962	10	16	936	962	1004	146	1032
961 - 987	10	16	961	987	1029	146	1057
984 - 1010	10	16	984	1010	1052	146	1080
1004 - 1030	10	16	1004	1030	1072	146	1100
1044 - 1070	10	16	1044	1070	1116	146	1146
1076 - 1102	10	16	1076	1102	1148	146	1178
1104 - 1130	10	16	1104	1130	1176	146	1206
1138 - 1177	10	16	1138	1177	1223	146	1253
1192 - 1231	10	16	1192	1231	1277	146	1307
1241 - 1280	10	16	1241	1280	1326	146	1356
1331 - 1370	10	16	1331	1370	1416	146	1446
1413 - 1452	10	16	1413	1452	1498	146	1528

UNI-Flex S coupling stainless steel 1.4571
Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
PN6 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

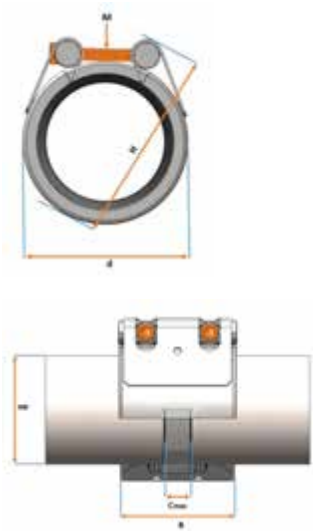
Attention:

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
277 - 290	779 864 231	779 862 231	4.7
288 - 301	779 864 232	779 862 232	4.8
301 - 314	779 864 233	779 862 233	4.9
315 - 328	779 864 234	779 862 234	5.0
327 - 340	779 864 235	779 862 235	5.1
340 - 353	779 864 236	779 862 236	5.2
350 - 363	779 864 237	779 862 237	5.2
361 - 374	779 864 238	779 862 238	5.3
374 - 387	779 864 239	779 862 239	5.4
387 - 400	779 864 240	779 862 240	5.5
400 - 413	779 864 241	779 862 241	5.6
412 - 425	779 864 242	779 862 242	5.7
422 - 435	779 864 243	779 862 243	5.8
438 - 451	779 864 244	779 862 244	5.9
451 - 464	779 864 245	779 862 245	6.0
460 - 473	779 864 246	779 862 246	6.1
476 - 489	779 864 247	779 862 247	6.2
488 - 501	779 864 248	779 862 248	6.3
503 - 516	779 864 249	779 862 249	6.5
520 - 533	779 864 250	779 862 250	9.1
531 - 544	779 864 251	779 862 251	9.2
546 - 559	779 864 252	779 862 252	9.4
557 - 570	779 864 253	779 862 253	9.5
571 - 584	779 864 254	779 862 254	9.7
600 - 613	779 864 255	779 862 255	10.1
610 - 623	779 864 256	779 862 256	10.2
628 - 641	779 864 257	779 862 257	10.4
648 - 661	779 864 258	779 862 258	10.6
676 - 689	779 864 259	779 862 259	11.0
688 - 701	779 864 260	779 862 260	11.1
700 - 713	779 864 261	779 862 261	11.3
717 - 730	779 864 262	779 862 262	11.5
732 - 745	779 864 263	779 862 263	11.6

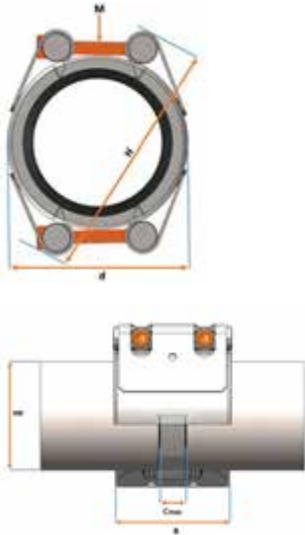
OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
277 - 290	6	10	277	290	328	138	354
288 - 301	6	10	288	301	339	138	365
301 - 314	6	10	301	314	352	138	378
315 - 328	6	10	315	328	366	138	392
327 - 340	6	10	327	340	378	138	404
340 - 353	6	10	340	353	391	138	417
350 - 363	6	10	350	363	401	138	427
361 - 374	6	10	361	374	412	138	438

table continued on the next page



OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
374 - 387	6	10	374	387	425	138	451
387 - 400	6	10	387	400	438	138	464
400 - 413	6	10	400	413	451	138	477
412 - 425	6	10	412	425	463	138	489
422 - 435	6	10	422	435	473	138	499
438 - 451	6	10	438	451	489	138	515
451 - 464	6	10	451	464	502	138	528
460 - 473	6	10	460	473	511	138	537
476 - 489	6	10	476	489	527	138	553
488 - 501	6	10	488	501	539	138	565
503 - 516	6	10	503	516	554	138	580
520 - 533	6	10	520	533	575	140	603
531 - 544	6	10	531	544	586	140	614
546 - 559	6	10	546	559	601	140	629
557 - 570	6	10	557	570	612	140	640
571 - 584	6	10	571	584	626	140	654
600 - 613	6	10	600	613	655	140	683
610 - 623	6	10	610	623	665	140	693
628 - 641	6	10	628	641	683	140	711
648 - 661	6	10	648	661	703	140	731
676 - 689	6	10	676	689	731	140	759
688 - 701	6	10	688	701	743	140	771
700 - 713	6	10	700	713	755	140	783
717 - 730	6	10	717	730	772	140	800
732 - 745	6	10	732	745	787	140	815

UNI-Flex S2/S3 coupling stainless steel 1.4571 PN6
Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
PN6 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

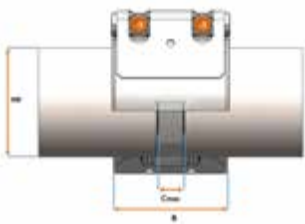
Attention:

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
756 - 782	779 864 264	779 862 264	14.7
782 - 808	779 864 265	779 862 265	15.1
806 - 832	779 864 266	779 862 266	15.3
828 - 854	779 864 267	779 862 267	15.6
856 - 882	779 864 268	779 862 268	15.9
882 - 908	779 864 269	779 862 269	16.3
904 - 930	779 864 270	779 862 270	16.5
936 - 962	779 864 271	779 862 271	21.3
961 - 987	779 864 272	779 862 272	21.7
984 - 1010	779 864 273	779 862 273	22.1
1004 - 1030	779 864 274	779 862 274	22.4
1044 - 1070	779 864 275	779 862 275	23.0
1076 - 1102	779 864 276	779 862 276	23.6
1104 - 1130	779 864 277	779 862 277	24.0
1138 - 1177	779 864 278	779 862 278	27.7
1192 - 1231	779 864 279	779 862 279	28.6
1241 - 1280	779 864 280	779 862 280	29.3
1331 - 1370	779 864 281	779 862 281	30.8
1413 - 1452	779 864 282	779 862 282	32.1
1432 - 1471	779 864 283	779 862 283	32.4

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
756 - 782	6	10	756	782	824	140	852
782 - 808	6	10	782	808	850	140	878
806 - 832	6	10	806	832	874	140	902
828 - 854	6	10	828	854	896	140	924
856 - 882	6	10	856	882	924	140	952
882 - 908	6	10	882	908	950	140	978
904 - 930	6	10	904	930	972	140	1000
936 - 962	6	10	936	962	1029	142	1057
961 - 987	6	10	961	987	1004	142	1032
984 - 1010	6	10	984	1010	1052	142	1080
1004 - 1030	6	10	1004	1030	1072	142	1100
1044 - 1070	6	10	1044	1070	1116	142	1146
1076 - 1102	6	10	1076	1102	1148	142	1178
1104 - 1130	6	10	1104	1130	1176	142	1206
1138 - 1177	6	10	1138	1177	1223	142	1253
1192 - 1231	6	10	1192	1231	1277	142	1307
1241 - 1280	6	10	1241	1280	1326	142	1356
1331 - 1370	6	10	1331	1370	1416	142	1446
1413 - 1452	6	10	1413	1452	1498	142	1528
1432 - 1471	6	10	1432	1471	1517	142	1547

UNI-Flex S coupling stainless steel 1.4571
Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
PN2,5 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

Attention:

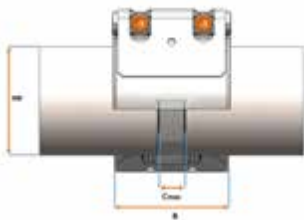
- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
520 - 533	779 864 350	779 862 350	6.6
531 - 544	779 864 351	779 862 351	6.7
546 - 559	779 864 352	779 862 352	6.8
557 - 570	779 864 353	779 862 353	6.9
571 - 584	779 864 354	779 862 354	7.0
600 - 613	779 864 355	779 862 355	7.2
610 - 623	779 864 356	779 862 356	7.3
628 - 641	779 864 357	779 862 357	7.4
648 - 661	779 864 358	779 862 358	7.6
676 - 689	779 864 359	779 862 359	7.8
688 - 701	779 864 360	779 862 360	7.9
700 - 713	779 864 361	779 862 361	8.0
717 - 730	779 864 362	779 862 362	8.1
732 - 745	779 864 363	779 862 363	8.3

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
520 - 533	2.5	6	520	533	575	138	603
531 - 544	2.5	6	531	544	586	138	614
546 - 559	2.5	6	546	559	601	138	629
557 - 570	2.5	6	557	570	612	138	640
571 - 584	2.5	6	571	584	626	138	654
600 - 613	2.5	6	600	613	655	138	683
610 - 623	2.5	6	610	623	665	138	693
628 - 641	2.5	6	628	641	683	138	711
648 - 661	2.5	6	648	661	703	138	731
676 - 689	2.5	6	676	689	731	138	759
688 - 701	2.5	6	688	701	743	138	771
700 - 713	2.5	6	700	713	755	138	783
717 - 730	2.5	6	717	730	772	138	800
732 - 745	2.5	6	732	745	787	138	815

UNI-Flex S2/S3/S4 coupling stainless steel 1.4571

Non-tensile connection of metal and metal, plastic and plastic, metal and plastic PN2,5 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Remark:

For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory

Attention:

- **The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.**

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
756 - 782	779 864 364	779 862 364	10.9
782 - 808	779 864 365	779 862 365	11.1
806 - 832	779 864 366	779 862 366	11.3
828 - 854	779 864 367	779 862 367	11.5
856 - 882	779 864 368	779 862 368	11.7
882 - 908	779 864 369	779 862 369	11.9
904 - 930	779 864 370	779 862 370	12.1
936 - 962	779 864 371	779 862 371	16.9
961 - 987	779 864 372	779 862 372	17.2
984 - 1010	779 864 373	779 862 373	17.5
1004 - 1030	779 864 374	779 862 374	17.7
1044 - 1070	779 864 375	779 862 375	18.2
1076 - 1102	779 864 376	779 862 376	18.6
1104 - 1130	779 864 377	779 862 377	18.9
1138 - 1177	779 864 378	779 862 378	22.2
1192 - 1231	779 864 379	779 862 379	22.8
1241 - 1280	779 864 380	779 862 380	23.4
1331 - 1370	779 864 381	779 862 381	24.5
1413 - 1452	779 864 382	779 862 382	25.5
1432 - 1471	779 864 383	779 862 383	25.7
1529 - 1568	779 864 384	779 862 384	34.0
1620 - 1672	779 864 385	779 862 385	38.6
1827 - 1879	779 864 386	779 862 386	41.9
2000 - 2052	779 864 387	779 862 387	44.7
2038 - 2090	779 864 388	779 862 388	45.3

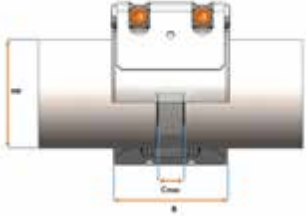
OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
756 - 782	2.5	6	756	782	824	138	852
782 - 808	2.5	6	782	808	850	138	878
806 - 832	2.5	6	806	832	874	138	902
828 - 854	2.5	6	828	854	896	138	924
856 - 882	2.5	6	856	882	924	138	952
882 - 908	2.5	6	882	908	950	138	978
904 - 930	2.5	6	904	930	972	138	1000
936 - 962	2.5	6	936	962	1004	140	1032
961 - 987	2.5	6	961	987	1029	140	1057
984 - 1010	2.5	6	984	1010	1052	140	1080
1004 - 1030	2.5	6	1004	1030	1072	140	1100
1044 - 1070	2.5	6	1044	1070	1116	140	1146
1076 - 1102	2.5	6	1076	1102	1148	140	1178
1104 - 1130	2.5	6	1104	1130	1176	140	1206
1138 - 1177	2.5	6	1138	1177	1223	140	1253
1192 - 1231	2.5	6	1192	1231	1277	140	1307
1241 - 1280	2.5	6	1241	1280	1326	140	1356
1331 - 1370	2.5	6	1331	1370	1416	140	1446

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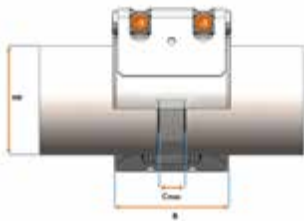


OD nominal (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
1413 - 1452	2.5	6	1413	1452	1498	140	1528
1432 - 1471	2.5	6	1432	1471	1517	142	1547
1529 - 1568	2.5	6	1529	1568	1614	142	1644
1620 - 1672	2.5	6	1620	1672	1718	142	1748
1827 - 1879	2.5	6	1827	1879	1925	142	1955
2000 - 2052	2.5	6	2000	2052	2098	142	2128
2038 - 2090	2.5	6	2038	2090	2136	142	2166



UNI-Rep

PF 1 D1 A91



UNI-Rep S repair coupling stainless steel 1.4571

Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
PN16 Solid bolt

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

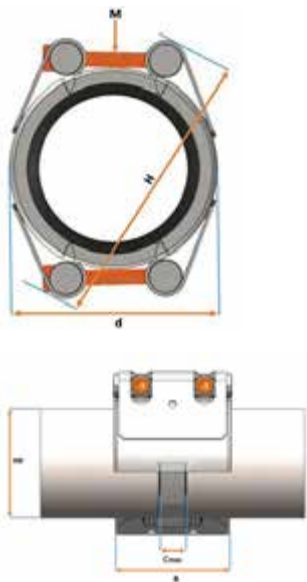
Attention:

- The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
36.0 - 39.0	779 912 005	779 909 005	0.4
39.0 - 43.0	779 912 006	779 909 006	0.4
43.0 - 47.5	779 912 007	779 909 007	0.4
47.5 - 52.5	779 912 008	779 909 008	0.4
52.5 - 58.0	779 912 009	779 909 009	0.6
58.0 - 64.0	779 912 010	779 909 010	0.6
64.0 - 72.0	779 912 011	779 909 011	1.0
72.0 - 80.0	779 912 012	779 909 012	1.0
80.0 - 88.0	779 912 013	779 909 013	1.0
88.0 - 96.0	779 912 014	779 909 014	1.0
97.0 - 105.0	779 912 015	779 909 015	1.1
104.0 - 112.0	779 912 016	779 909 016	1.1
112.0 - 120.0	779 912 017	779 909 017	1.2
122.0 - 130.0	779 912 018	779 909 018	1.2
129.0 - 137.0	779 912 019	779 909 019	2.1
137.0 - 145.0	779 912 020	779 909 020	2.2
149.0 - 157.0	779 912 021	779 909 021	2.3
157.0 - 165.0	779 912 022	779 909 022	2.3
164.0 - 172.0	779 912 023	779 909 023	2.4

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
36.0 - 39.0	16	60	36.0	39.0	66	60	104
39.0 - 43.0	16	50	39.0	43.0	66	60	104
43.0 - 47.5	16	50	43.0	47.5	74	60	112
47.5 - 52.5	16	50	47.5	52.5	74	60	112
52.5 - 58.0	16	50	52.5	58.0	85	75	125
58.0 - 64.0	16	40	58.0	64.0	85	75	125
64.0 - 72.0	16	40	64.0	72.0	108	95	164
72.0 - 80.0	16	40	72.0	80.0	108	95	164
80.0 - 88.0	16	35	80.0	88.0	124	95	170
88.0 - 96.0	16	35	88.0	96.0	124	95	170
97.0 - 105.0	16	35	97.0	105.0	141	95	187
104.0 - 112.0	16	35	104.0	112.0	141	95	187
112.0 - 120.0	16	35	112.0	120.0	158	95	202
122.0 - 130.0	16	32	122.0	130.0	158	95	202
129.0 - 137.0	16	32	129.0	137.0	178	110	230
137.0 - 145.0	16	32	137.0	145.0	186	110	238
149.0 - 157.0	16	32	149.0	157.0	197	110	249
157.0 - 165.0	16	32	157.0	165.0	205	110	255
164.0 - 172.0	16	32	164.0	172.0	212	110	262

UNI-Rep S2 repair coupling stainless steel 1.4571
Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
PN16 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Attention:

- The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.

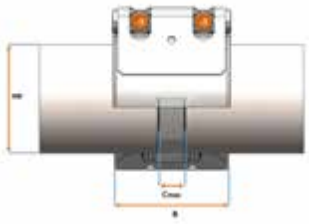
OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
172 - 198	779 964 024	779 962 024	7.8
197 - 223	779 964 026	779 962 026	8.1
221 - 247	779 964 028	779 962 028	8.4
250 - 276	779 964 030	779 962 030	8.7
275 - 301	779 964 032	779 962 032	10.8
302 - 328	779 964 034	779 962 034	11.3
327 - 353	779 964 036	779 962 036	11.7
348 - 374	779 964 038	779 962 038	16.1
374 - 400	779 964 040	779 962 040	16.8
399 - 425	779 964 042	779 962 042	17.4
425 - 451	779 964 044	779 962 044	18.0
447 - 473	779 964 046	779 962 046	18.6
475 - 501	779 964 048	779 962 048	19.3
490 - 516	779 964 049	779 962 049	19.7
507 - 533	779 964 050	779 962 050	20.1
558 - 584	779 964 054	779 962 054	21.4
533 - 559	779 964 052	779 962 052	20.7
587 - 613	779 964 055	779 962 055	22.1
615 - 641	779 964 057	779 962 057	22.8
635 - 661	779 964 058	779 962 058	23.3
663 - 689	779 964 059	779 962 059	24.0
687 - 713	779 964 061	779 962 061	24.6
704 - 730	779 964 062	779 962 062	25.0
719 - 745	779 964 063	779 962 063	25.4

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
172 - 198	16	25	172	198	236	140	262
197 - 223	16	25	197	223	261	140	287
221 - 247	16	25	221	247	285	140	311
250 - 276	16	25	250	276	314	140	340
275 - 301	16	25	275	301	339	142	365
302 - 328	16	25	302	328	366	142	392
327 - 353	16	25	327	353	391	142	417
348 - 374	16	25	348	374	412	146	438
374 - 400	16	25	374	400	438	146	464
399 - 425	16	25	399	425	463	146	489
425 - 451	16	25	425	451	489	146	515
447 - 473	16	25	447	473	511	146	537
475 - 501	16	25	475	501	539	146	565
490 - 516	16	25	490	516	554	146	580
507 - 533	16	25	523	533	575	146	603
558 - 584	16	25	558	584	626	146	654
533 - 559	16	25	533	559	601	146	629
587 - 613	16	25	587	613	655	146	683
615 - 641	16	25	615	641	683	146	711
635 - 661	16	25	635	661	703	146	731

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OD nominal (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
663 - 689	16	25	663	689	731	146	759
687 - 713	16	25	687	713	755	146	783
704 - 730	16	25	704	730	772	146	800
719 - 745	16	25	719	745	787	146	815



UNI-Rep 5 S2 repair coupling stainless steel 1.4571
Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
PN10/16 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

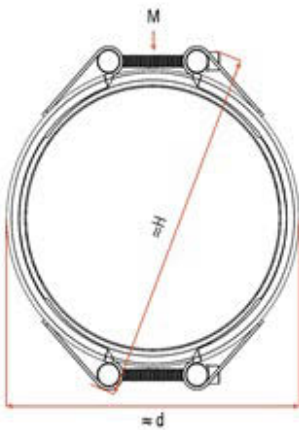
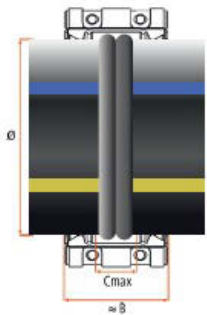
- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Attention:

- The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.

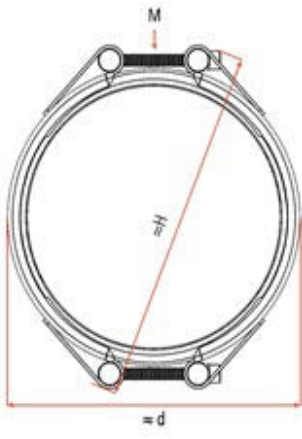


OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
197 - 223	779 964 064	779 962 064	24.3
221 - 247	779 964 065	779 962 065	25.2
250 - 276	779 964 066	779 962 066	26.2
275 - 301	779 964 067	779 962 067	27.1
302 - 328	779 964 068	779 962 068	28.1
348 - 374	779 964 069	779 962 069	36.0
399 - 425	779 964 070	779 962 070	38.5
447 - 473	779 964 071	779 962 071	40.8
490 - 516	779 964 072	779 962 072	42.9
558 - 584	779 964 073	779 962 073	46.2
587 - 613	779 964 074	779 962 074	47.6
615 - 641	779 964 075	779 962 075	48.9
635 - 661	779 964 076	779 962 076	49.9
704 - 730	779 964 077	779 962 077	53.2
756 - 782	779 964 078	779 962 078	55.2
782 - 808	779 964 079	779 962 079	56.5
806 - 832	779 964 080	779 962 080	57.7
882 - 908	779 964 081	779 962 081	61.3
904 - 930	779 964 082	779 962 082	62.4
984 - 1010	779 964 083	779 962 083	95.4
1044 - 1070	779 964 084	779 962 084	99.9
1192 - 1231	779 964 085	779 962 085	121.7

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
197 - 223	16	25	197	223	287	420	261
221 - 247	16	25	221	247	311	420	285
250 - 276	16	25	250	276	340	420	314
275 - 301	10	16	275	301	365	420	339
302 - 328	10	16	302	328	392	420	366
348 - 374	10	16	348	374	438	420	412
399 - 425	10	16	399	425	489	420	463
447 - 473	10	16	447	473	537	420	511
490 - 516	10	16	490	516	580	420	554
558 - 584	10	16	558	584	654	420	626
587 - 613	10	16	587	613	683	420	655
615 - 641	10	16	615	641	711	420	683
635 - 661	10	16	635	661	731	420	703
704 - 730	10	16	704	730	800	420	772
756 - 782	10	16	756	782	852	420	824
782 - 808	10	16	782	808	878	420	850
806 - 832	10	16	806	832	902	420	874
882 - 908	10	16	882	908	978	420	950

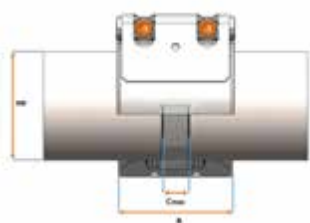
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PF 1 D1 A91



OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
904 - 930	10	16	904	930	1000	420	972
984 - 1010	10	16	984	1010	1080	420	1052
1044 - 1070	10	16	1044	1070	1146	420	1116
1192 - 1231	10	16	1192	1231	1307	420	1277

UNI-Rep S2 repair coupling stainless steel 1.4571
Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
PN10 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Attention:

- The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.

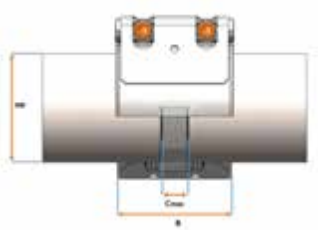
OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
172 - 198	779 964 124	779 962 124	6.4
197 - 223	779 964 126	779 962 126	6.6
221 - 247	779 964 128	779 962 128	6.8
250 - 276	779 964 130	779 962 130	7.0
275 - 301	779 964 132	779 962 132	9.0
302 - 328	779 964 134	779 962 134	9.4
327 - 353	779 964 136	779 962 136	9.7
348 - 374	779 964 138	779 962 138	12.0
374 - 400	779 964 140	779 962 140	12.4
399 - 425	779 964 142	779 962 142	12.8
425 - 451	779 964 144	779 962 144	13.2
447 - 473	779 964 146	779 962 146	13.6
475 - 501	779 964 148	779 962 148	14.1
490 - 516	779 964 149	779 962 149	14.3
507 - 533	779 964 150	779 962 150	14.6
533 - 559	779 964 152	779 962 152	15.0
558 - 584	779 964 154	779 962 154	15.4
587 - 613	779 964 155	779 962 155	15.9
615 - 641	779 964 157	779 962 157	16.3
635 - 661	779 964 158	779 962 158	16.6
663 - 689	779 964 159	779 962 159	17.1
687 - 713	779 964 161	779 962 161	17.5
704 - 730	779 964 162	779 962 162	17.7
719 - 745	779 964 163	779 962 163	18.0

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
172 - 198	10	16	172	198	236	138	262
197 - 223	10	16	197	223	261	138	287
221 - 247	10	16	221	247	285	138	311
250 - 276	10	16	250	276	314	138	340
275 - 301	10	16	275	301	339	140	365
302 - 328	10	16	302	328	366	140	392
327 - 353	10	16	327	353	391	140	417
348 - 374	10	16	348	374	412	142	438
374 - 400	10	16	374	400	438	142	464
399 - 425	10	16	399	425	463	142	489
425 - 451	10	16	425	451	489	142	515
447 - 473	10	16	447	473	511	142	537
475 - 501	10	16	475	501	539	142	565
490 - 516	10	16	490	516	554	142	580
507 - 533	10	16	507	533	575	142	603
533 - 559	10	16	533	559	601	142	629
558 - 584	10	16	558	584	626	142	654
587 - 613	10	16	587	613	655	142	683
615 - 641	10	16	615	641	683	142	711
635 - 661	10	16	635	661	703	142	731

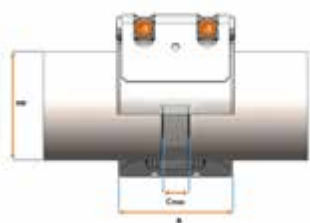
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PF 1 D1 A91

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
663 - 689	10	16	663	689	731	142	759
687 - 713	10	16	687	713	755	142	783
704 - 730	10	16	704	730	772	142	800
719 - 745	10	16	719	745	787	142	815



UNI-Rep S2 repair coupling stainless steel 1.4571
Non-tensile connection of metal and metal, plastic and plastic, metal and plastic
PN6 Solid bolt



Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton (FKM) on request

Attention:

- The difference between the different pipe outside diameters OD1<OD2 is 1% or max. 3 mm.

OD nominal (mm) (mm)	EPDM Code	NBR Code	Weight (kg)
264 - 290	779 964 231	779 962 231	7.1
275 - 301	779 964 232	779 962 232	7.2
302 - 328	779 964 234	779 962 234	7.4
327 - 353	779 964 236	779 962 236	7.6
348 - 374	779 964 238	779 962 238	7.8
374 - 400	779 964 240	779 962 240	8.0
399 - 425	779 964 242	779 962 242	8.2
425 - 451	779 964 244	779 962 244	8.4
447 - 473	779 964 246	779 962 246	8.6
475 - 501	779 964 248	779 962 248	8.8
490 - 516	779 964 249	779 962 249	8.9
507 - 533	779 964 250	779 962 250	11.8
533 - 559	779 964 252	779 962 252	12.2
558 - 584	779 964 254	779 962 254	12.5
587 - 613	779 964 255	779 962 255	12.8
615 - 641	779 964 257	779 962 257	13.2
635 - 661	779 964 258	779 962 258	13.4
663 - 689	779 964 259	779 962 259	13.7
687 - 713	779 964 261	779 962 261	14.0
704 - 730	779 964 262	779 962 262	14.2
719 - 745	779 964 263	779 962 263	14.4

OD nominal (mm) (mm)	PN (bar)	WP (bar)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)
264 - 290	6	10	264	290	328	138	354
275 - 301	6	10	275	301	339	138	365
302 - 328	6	10	302	328	366	138	392
327 - 353	6	10	327	353	391	138	417
348 - 374	6	10	348	374	412	138	438
374 - 400	6	10	374	400	438	138	464
399 - 425	6	10	399	425	463	138	489
425 - 451	6	10	425	451	489	138	515
447 - 473	6	10	447	473	511	138	537
475 - 501	6	10	475	501	539	138	565
490 - 516	6	10	490	516	554	138	580
507 - 533	6	10	507	533	575	140	603
533 - 559	6	10	533	559	601	140	629
558 - 584	6	10	558	584	626	140	654
587 - 613	6	10	587	613	655	140	683
615 - 641	6	10	615	641	683	140	711
635 - 661	6	10	635	661	703	140	731
663 - 689	6	10	663	689	731	140	759
687 - 713	6	10	687	713	755	140	783
704 - 730	6	10	704	730	772	140	800
719 - 745	6	10	719	745	787	140	815

Insert Stiffeners

PF 1 54 323



Insert stiffener Economy

Model:

- Suitable for PE and PVC pipes
- Stainless steel A2 quality (AISI 304), optional A4 quality (AISI 316)
- For pipe sizes > d355 use an insert stiffener with wedge
- Other pipe sizes < d355 available on request

d x e (mm)	SDR	L (mm)	Code	Weight (kg)
40 x 3,7	11.0	100	709 026 391	0.100
40 x 2,3	17.6 / 17.0	100	709 026 392	0.100
50 x 4,6	11.0	100	709 026 203	0.130
50 x 2,9	17.6 / 17.0	100	709 026 206	0.130
63 x 5,8	11.0	100	709 026 211	0.160
63 x 3,6	17.6 / 17.0	100	709 026 214	0.160
63 x 2,0	33	100	709 026 217	0.160
75 x 6,8	11.0	100	709 026 220	0.190
75 x 4,3	17.6 / 17.0	100	709 026 223	0.190
90 x 8,2	11.0	120	709 026 230	0.270
90 x 5,2	17.6 / 17.0	120	709 026 233	0.270
110 x 10,0	11.0	120	709 026 242	0.330
110 x 6,3	17.6 / 17.0	120	709 026 245	0.330
110 x 3,4	33	120	709 026 248	0.330
125 x 11,4	11.0	120	709 026 254	0.380
125 x 7,2	17.6 / 17.0	120	709 026 257	0.380
140 x 12,7	11.0	140	709 026 266	0.490
140 x 8,0	17.6 / 17.0	140	709 026 269	0.490
160 x 14,6	11.0	140	709 026 278	0.850
160 x 9,1	17.6 / 17.0	140	709 026 281	0.850
160 x 4,9	33	140	709 026 284	0.850
180 x 16,4	11.0	140	709 026 290	0.950
180 x 10,7	17.0	140	709 026 408	0.950
180 x 10,3	17.6	140	709 026 293	0.950
200 x 18,2	11.0	160	709 026 302	1.210
200 x 11,9	17.0	160	709 026 409	1.210
200 x 11,4	17.6	160	709 026 305	1.210
200 x 6,1	33	160	709 026 308	1.210
225 x 20,5	11.0	160	709 026 314	1.360
225 x 13,4	17.0	160	709 026 410	1.360
225 x 12,8	17.6	160	709 026 317	1.360
250 x 22,8	11.0	160	709 026 326	2.010
250 x 14,8	17.0	160	709 026 411	2.010
250 x 14,3	17.6	160	709 026 329	2.010
280 x 25,5	11.0	160	709 026 338	2.250
280 x 16,6	17.0	160	709 026 340	2.250
280 x 16,0	17.6	160	709 026 341	2.250
315 x 28,7	11.0	160	709 026 350	2.530
315 x 18,7	17.0	160	709 026 413	2.530
315 x 17,9	17.6	160	709 026 353	2.530
315 x 9,6	33	160	709 026 356	2.530
355 x 32,3	11.0	160	709 026 362	2.850
355 x 21,1	17.0	160	709 026 414	2.850
355 x 20,2	17.6	160	709 026 365	2.850

Insert stiffener with Wedge



Model:

- Suitable for PE and PVC pipes
- Stainless steel A2 quality (AISI 304), optional A4 quality (AISI 316)
- Other pipe sizes available on request
- For MULTI/JOINT® DN625 till DN800 please see MJ DN625 - DN800 insert stiffeners

d x e (mm)	SDR	L (mm)	Code	Weight (kg)
50 x 2.4	21	175	709 026 207	0.130
63 x 3.0	21	175	709 026 019	0.500
63 x 3.6	17.6 / 17.0	175	709 026 012	0.220
63 x 4.7	13.5	175	709 026 015	0.210
63 x 5.8	11.0	175	709 026 016	0.210
63 x 8.7	7.5	175	709 026 018	0.190
75 x 3.6	21	175	709 026 027	0.260
75 x 4.3	17.6 / 17.0	175	709 026 022	0.260
75 x 5.6	13.5	175	709 026 024	0.250
75 x 6.9	11.0	175	709 026 026	0.240
90 x 4.3	21	175	709 026 039	1.100
90 x 5.1	17.6 / 17.0	175	709 026 032	0.310
90 x 6.7	13.5	175	709 026 035	0.300
90 x 8.2	11.0	175	709 026 036	0.290
90 x 12.5	7.5	175	709 026 038	0.260
110 x 5.3	21	175	709 026 049	0.460
110 x 6.3	17.6 / 17.0	175	709 026 042	0.450
110 x 8.2	13.5	175	709 026 045	0.430
110 x 10.0	11.0	175	709 026 046	0.420
110 x 15.2	7.5	175	709 026 048	0.370
125 x 6.0	21	175	709 026 058	1.200
125 x 7.1	17.6 / 17.0	175	709 026 052	0.510
125 x 9.3	13.5	175	709 026 054	0.490
125 x 11.4	11.0	175	709 026 056	0.470
140 x 6.7	21	175	709 026 067	1.300
140 x 8.0	17.6 / 17.0	175	709 026 062	0.560
140 x 10.4	13.5	175	709 026 063	0.550
140 x 12.8	11.0	175	709 026 066	0.520
160 x 4.8	33.0	200	709 026 070	0.920
160 x 7.7	21	200	709 026 079	0.880
160 x 9.1	17.6 / 17.0	200	709 026 072	0.870
160 x 11.9	13.5	200	709 026 074	0.830
160 x 14.6	11.0	200	709 026 076	0.800
180 x 8.6	21	200	709 026 088	1.400
180 x 10.2	17.6 / 17.0	200	709 026 082	0.980
180 x 16.4	11.0	200	709 026 086	0.900
200 x 9.6	21	200	709 026 094	1.400
200 x 11.4	17.6 / 17.0	200	709 026 092	1.150
200 x 18.2	11.0	200	709 026 096	1.020
225 x 10.8	21	225	709 026 101	1.700
225 x 12.8	17.6 / 17.0	225	709 026 102	1.660
225 x 20.5	11.0	225	709 026 106	1.530
250 x 11.9	21	225	709 026 105	1.500
250 x 14.2	17.6 / 17.0	225	709 026 115	1.850
250 x 22.8	11.0	225	709 026 116	1.700
280 x 13.4	21	225	709 026 145	2.000
280 x 16.6	17.6 / 17.0	225	709 026 127	2.070
280 x 25.5	11.0	225	709 026 126	1.920
315 x 18.5	17.0	225	709 026 910	2.320
315 x 17.9	17.6	225	709 026 125	2.340
315 x 15.0	21	225	709 026 123	2.390
315 x 28.7	11.0	225	709 026 124	2.160
355 x 10.8	33.0	225	709 026 132	3.760
355 x 20.1	17.6	225	709 026 129	2.710
355 x 20.9	17.0	225	709 026 131	2.690

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d x e (mm)	SDR	L (mm)	Code	Weight (kg)
355 x 32.3	11.0	225	709 026 128	2.510
400 x 15.4	26.0	225	709 026 140	3.170
400 x 22.7	17.6	225	709 026 139	3.050
400 x 36.4	11.0	225	709 026 138	2.820
450 x 25.5	17.6	225	709 026 149	4.200
450 x 26.5	17.0	225	709 026 147	4.200
450 x 41.0	11.0	225	709 026 148	4.200
500 x 28.3	17.6	225	709 026 159	4.660
500 x 29.4	17.0	225	709 026 021	4.660
500 x 45.5	11.0	225	709 026 158	4.660
560 x 31.7	17.6	225	709 026 169	5.230
560 x 32.9	17.0	225	709 026 172	5.230
560 x 51.0	11.0	225	709 026 168	5.230
630 x 35.7	17.6	225	709 026 179	5.870
630 x 57.3	11.0	225	709 026 178	5.870
710 x 40.2	17.6	225	709 026 189	6.620
710 x 64.5	11.0	225	709 026 188	6.620
800 x 45.3	17.6	225	709 026 199	7.460
800 x 72.7	11.0	225	709 026 198	7.460
900 x 51.2	17.6	225	709 026 183	8.390
900 x 81.8	11.0	225	709 026 182	8.390
1000 x 56.8	17.6	225	709 026 191	9.330
1000 x 90.9	11.0	225	709 026 192	9.330
1200 x 109.1	11.0	225	709 026 184	11.190

Accessories

PF 1 D1 A95



UNI-Fire Ø 21 - 223 mm Fire Protective Housing

suitable for any type of UNI-coupling
Transforms regular couplings into fire protective couplings

- Other dimensions available on request

Model:

- Stainless steel 1.4571 (W5) quality

Code	Weight (kg)	OD min (mm)	OD max. (mm)	B (mm)	H (mm)
779 773 001	0.1	21.0	29.0	95	91
779 773 002	0.1	29.0	36.0	95	99
779 773 003	0.2	36.0	43.0	110	119
779 773 004	0.2	43.0	52.5	110	127
779 773 005	0.3	52.5	64.0	125	140
779 773 006	0.5	64.0	80.0	145	179
779 773 007	0.6	80.0	97.0	145	185
779 773 008	0.6	97.0	113.0	145	202
779 773 009	0.7	113.0	130.0	145	217
779 773 010	0.9	130.0	138.0	160	245
779 773 011	0.9	138.0	149.0	160	253
779 773 012	8.3	149.0	157.0	160	264
779 773 013	1.0	157.0	164.0	160	270
779 773 014	1.0	164.0	213.0	160	277
779 773 015	1.0	210.0	223.0	190	302

PF 1 D1 A94



Fitting Plier

Mode of action:

- For convenient assembling of the UNI-Rep couplings we recommend to use a plier
- The plier uses the bores in the housing in order to close the coupling
- In case of bigger diameter (>300mm) use a fitting belt

Code	Weight (kg)	OD min (mm)	OD max. (mm)
779 245 000	1.5	36	238

Checklist for information request

Criteria:

Employed pipe materials acc. DIN / AISI

Strength of the pipe materials to be joined

Pipe outside diameters (OD)

Wall thickness

Working pressure

Test pressure

Connecting technique used

Medium to be conveyed

Temperature of medium in °C, min./max.

Surrounding medium

Surrounding temperature

Pipe laying (open, in shaft or buried)

Type approval desired

Estimated quantity of joints

Worldwide at home

Our sales companies and representatives ensure local customer support in over 100 countries

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