



PRODUCT CATALOGUE



REPAIRING IS CARING

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THE TECHNICAL DATA ARE NOT BINDING AND NOT EXPRESLY WARRENTED CHARACTERISTICS OF THE GOODS.
THEY ARE SUBJECT TO CHANGE. PLEASE CONSULT OUR GENERAL CONDITIONS OF SUPPLY.

VERSION 2.00



INTRODUCTION

United Pipeline Products is the world leader in stainless steel repair clamps and couplings. As a leading European manufacturer, we serve over 72 countries and act as the preferred supplier for coupling and repair solutions in the gas, water and petrochemical industries, as well as for marine piping systems.

Our group includes:

- HUWA International Pipeline Products B.V.
- Romacon Pipeline Products B.V.
- Romacon Petro B.V.
- Gekave International B.V.
- Hegawa B.V.
- UNI-Coupling B.V.

With more than 40 years of experience, we integrate innovative and sustainable production methods into our craftsmanship.

Modern and environmentally friendly technologies

Pipeline Products remains future-proof by investing in the most advanced techniques in sheet metal working. This includes a new fibre laser which operates autonomously and can cut stainless steel up to 12mm thick. We have also invested in a new 250-tonne press

brake, finishing machines and brand new welding robots which are programmed via touchscreen control units. In addition we have installed a fully automated pickling line to treat the stainless steel parts.

Sustainability

United Pipeline Products is committed to reducing the ecological impact of our operations on a daily basis. One way we do this is through energy conservation measures, generating our own energy with solar panels, reducing the use of packaging materials, reducing waste and implementing recycling programmes. We use sustainable materials wherever possible.

Moreover, our products help prevent and repair leaks, resulting in:

- Water saving
- Energy saving
- Saving on chemicals

Showroom and test room

Meet the couplers and clamps in our showroom. Here you can also see the passion and craftsmanship with which we invent, design, test and manufacture our products.

International standards

Our products comply with international standards for drinking water pipes, gas supply and more. We offer a wide range of seals, including EPDM, NBR and VITON, with certifications such as KIWA - BRL-K777, ACS, WRAS, BS and KTW. Our branches and flanges comply with various international standards, including ANSI, DIN and EN.

High-quality materials

We use only high-quality stainless steel (AISI 316 (EN 1.4401) / AISI 304 (EN 1.4301) for our products, ensuring durability and reliability in various applications.

Certification and Quality

As a company we are certified according to the NEN-EN-ISO 9001:2015 and 14001:2015 standards. Our experienced staff are fully trained and ready to assist customers with their piping challenges, providing expert advice and solutions.

Specialisation and services

Our highly skilled and certified welders and robot-controlled equipment guarantee high-quality results for special projects. We are committed to providing excellent service from initial contact through to project completion.





'Your repair
is our care!'



REPAIR CLAMP OVERVIEW

UNITED PIPELINE PRODUCTS

REPAIR CLAMPS

UNITED PIPELINE PRODUCTS



OTHERS

- No loose parts that may get lost during installation.
- No special tools required: a simple wrench will do the job.
- Under most circumstances the clamps can be installed without releasing the pressure on the pipe.

RUBBER GASKET SPECIFICATIONS

Repair clamps can be supplied with the following types of rubber depending on the type of repair clamp:

EPDM	- potable water - wastewater	max. 60 degr. C°
EPDM HT	- potable water - wastewater	max. 150 degr. C°
NBR	- natural water - potable water - wastewater	max. 70 degr. C°
VITON	- sereral chemicals	max. 200 degr. C°

Our rubber gaskets are certified to European standards, such as KIWA – BRL-K777 (The Netherlands), ACS (France) and WRAS (UK). Please contact us for a detailed list of current certifications.

MATERIAL SPECIFICATIONS

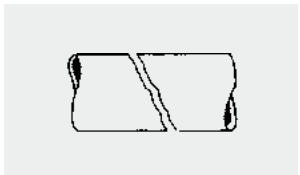
- All metal parts: stainless steel AISI 304 (1.4301) or AISI 316L (1.4404).
- Metal parts have been deburred and are sonar passivated to restore the corrosion resistance to its original state after the welding process.
- Extra strong U-shaped lifter bars.
- Stainless steel pecial treated stainless steel nuts to prevent galling to prevent galling.
- Wide diameter stainless steel washers.

- The rubber is tapered and has a waffle pattern.
- The rubber is 50 degrees shore for rough surfaces.
- Seamless rubber lining for every clamp diameter up to and including 300 mm OD.
- Bridge plate is vulcanized into the rubber gasket.
- Special tape is used to fix the rubber gasket to the stainless steel band. This tape is flexible and reinforced with glassfibre thread to withstand hot and humid conditions and guarantee a long storage capability.

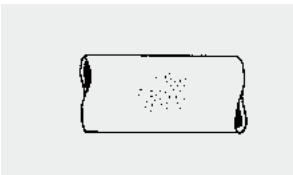
Repair clamps are used for the permanent repair of damaged pipes above and below ground. For water, gas and petrochemical fluids

APPLICATION

Following types of damage can be repaired with repair clamps:



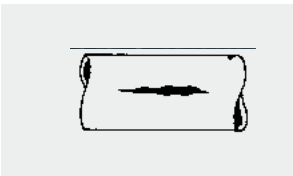
Cracks or fractures in asbestos-cement and cast iron pipes



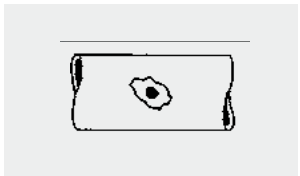
Pin holes in cast iron or steel pipes



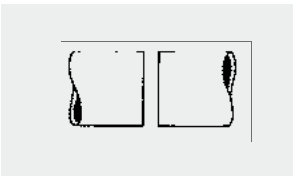
Pin holes in asbestos-cement, cast iron, steel and plastic pipes



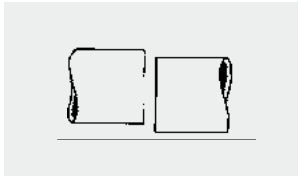
Cracks in asbestos-cement, cast iron, steel and plastic pipes



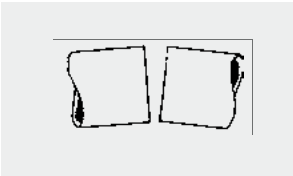
Torn sockets or welded tees



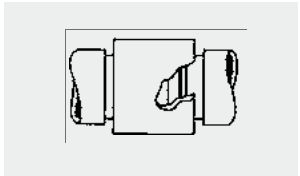
Ends of pipe with small space in between



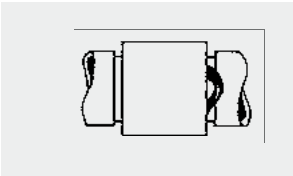
Ends of pipe misaligned or of different diameters



Ends of pipe in a light curve



Broken asbestos-cement pipe coupling



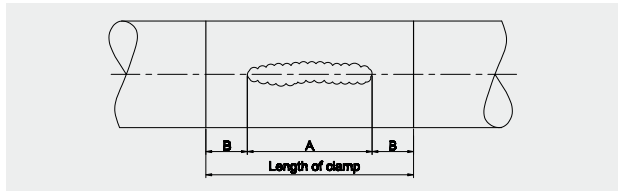
Burst rubber in asbestos-cement pipe coupling

PRODUCT RANGES

- RS-1 repair clamps have a working range of 10 mm.
- RS-2 repair clamps have a working range of 20 mm.
- RS-3 repair clamps have a working range of 30 mm.
- RS-O repair clamps have a maximum working range of 4 mm.
- RS-C repair clamps have a working range of 4-10 mm depending on the diameter.
- Snap Clamp repair clamps have working range of 3-7 mm depending on the diameter.

PRODUCT LENGHT

- The length of the clamp = A + 2B, but minimum pipe diameter. A = length of crack or hole, B = a minimum of 75 mm, depending on the length of crack, size of hole or opening and pressure.
- For PVC pipes, the width of the clamps should be 50% longer and bolt torque should be reduced by 50%. We prefer that you consult your distributor.



INSTALLATION CONDITIONS

- The maximum allowable distance between two pipe ends should not exceed 10 mm.
- The maximum allowable deflection is 2 degrees.
- The maximum allowable offset should not exceed 3 mm.

APPLICATION

The clamps can be used on following pipe types:

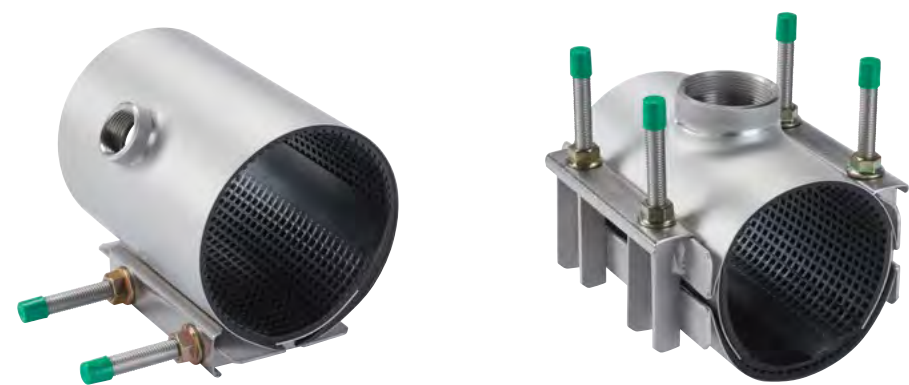
- Ductile Iron (DI)
- Cast Iron (CI)
- Steel (St.)
- Asbestos Cement (AC)
- PE coated steel
- PVC*
- GRP*
- PE*

* If pipe repair clamps are to be used on plastic pipes, please always contact us or a distributor for more information regarding the application and restrictions on these pipe types.

TAPPING CLAMP

UNITED PIPELINE PRODUCTS

Stainless steel **tapping clamps** are used to make permanent (hot) taps on different pipe types For water, gas and petrochemical fluids.



APPLICATION

Tapping clamps can be equipped with a threaded outlet up to 4". The standard outlets are threaded according to ISO/ DIN or BSP. American CC or IP threads can be supplied upon request.

The clamps can be used on following pipe types:

- Ductile Iron (DI)
- Cast Iron (CI)
- Steel (St.)
- Asbestos Cement (AC)
- PE coated steel
- PVC*
- GRP*
- PE*

* If pipe repair clamps are to be used on plastic pipes, please always contact us or a distributor for more information regarding the application and restrictions on these pipe types.

PRESSURE RAITINGS

Pressure ratings for water ** depend on the type of break or damage, pipe OD, medium etc.

- Pipe DN 40 up to and including DN 150: 16 bar
- Pipe DN 175 up to and including DN 300: 10 bar

Our clamps can be modified to cope with higher working pressures.

** Please contact us or your distributor for more information regarding pressures on gas pipes.

AVAILABE SIZES

RS-1 tapping clamps are available from range 38-42. Available lengths: 150, 200, 250, 300, 400, 500 and 600 mm. RS-2 tapping clamps are available from ranges 88-110. Available lengths: 200, 250, 300, 400, 500 and 600 mm.

Size of the threaded outlet or nipple	Available from range on RS1	Available from range on RS2	Minimum length in mm for RS1 / RS2
1/2"	38-42	88-110	150 / 200
3/4"	44-51	88-110	150 / 200
1"	48-55	88-110	150 / 200
1,1/4"	60-67	88-110	150 / 200
1,1/2"	60-67	88-110	150 / 200
2"	82-90	88-110	200
2,1/2" ***	not available	108-128	300
3" ***	not available	133-155	300
4" ***	not available	158-180	400

*** Only available on double band calmps, with a reinforced upper scale.

MATERIAL SPECIFICATIONS

- Sockets and nipples are threaded according to ISO 7/DIN or BSP. Special designed outlets are available on request. Please contact your distributor.
- The outlets are 100 % air tested after welding.

Other tapping clamp rubber gasket and product material specifications are identical to the specifications of the standard repair clamps.

DRILLING SADDLE

UNITED PIPELINE PRODUCTS

Stainless steel **drilling saddles** are used for making connections to valves, t-joints (branch pipes), shut-off valves, pipe and conduit fittings, etc. For water, gas and petrochemical fluids.



APPLICATION

Drilling saddles can be supplied with special branch pipes (among others, POLVA and branch pipes with male and female threading). Under most circumstances the clamps can be installed without releasing the pressure on the pipe.

PRESSURE RATINGS

Pressure ratings for water ** depend on the type of break or damage, pipe OD, medium etc.

- Pipe DN 40 up to and including DN 150: 16 bar
- Pipe DN 175 up to and including DN 300: 10 bar

** Please contact us or your distributor for more information regarding pressures on gas pipes.

AVAILABLE SIZES

Drilling saddles can be supplied with branch sizes starting at 1/2" to 2". Special branch sizes can be supplied on request. We can also supply the required branch pipes for blow-forming equipment applications.

Drilling saddles are available in many different working ranges for pipes of DN 80 up to and including DN 350. Please consult our price-list for more details on the working ranges. The length of the drilling saddle is standard 150 mm.

MATERIAL SPECIFICATIONS

- All metal parts: stainless steel AISI 304 or AISI 316L.
- Metal parts have been deburred and are passivated to restore the corrosion resistance to its original state after the welding process.
- Double band (two sections) with a working range of 18-22 mm depending on the diameter. For an overview of all working ranges please see our price-list.
- Seamless rubber lining for every clamp diameter.
- U-shaped lifter bars.
- Stainless steel, electrolytic zinc plated nuts to prevent galling.
- Stainless steel washers.

AVAILABLE RUBBER GASKETS

Drilling saddles can be supplied with standard certified NBR rubber gaskets in the upper scale, EPDM on request. The rubber is tapered and has a waffle pattern. Band gasket is always EPDM.

EPDM	- potable water - waste water	max 60 degr. C.
	- natural gas - potable water - waste water	max 70 degr. C.
NBR		

Our rubber gaskets are certified to European standards, such as ACS (France) and WRAS (UK). Please contact us for a detailed list of current certifications.

Stainless steel **tapping tee type SST** are used for permanent (hot) taps on several pipe types. For water, gas and petrochemical fluids.



APPLICATION

The SST is in fact a reinforced double band clamp with a flanged outlet. The standard working range is 20mm. The upper body is reinforced to accommodate the installation of valves and drilling equipment.

The full circumferential seal allows you to tap size on size with confidence. No more need for heavy, hard to assemble, cast iron sleeves. The full circle design reduces stress on the pipe opposite of the tap and reinforces the pipe.

The tapping tee is easy to install. No specially trained personnel or tools needed. A wrench to tighten bolts is the only tool required to install the sleeve.

The built-in range of 20 mm allows one sleeve to fit various classes of steel, PVC, ductile iron, cast iron or asbestos-cement pipe which results in inventory reduction. The high tensile strength of stainless steel allows us to manufacture the lightest tapping sleeve in the industry. Easy to handle and less load on the pipe.

The clamps can be used on following pipe types:

- Ductile Iron (DI)
- Cast Iron (CI)
- Steel (St.)
- Asbestos Cement (AC)
- PE coated steel
- PVC*
- GRP*
- PE*

AVAILABLE SIZES

SST tapping tee clamps are available for pipe diameters from DN 80 up to and including DN 800. Standard length: 500 mm. Besides our standard program, we are able to manufacture any range or length that you may require.

MATERIAL SPECIFICATIONS

Other tapping tee rubber gasket and product material specifications are identical to the specifications of the standard repair clamps.

PRESSURE RATINGS

Pressure ratings depend on the type of pipe, branch OD, medium etc. In general, SST tapping Tees are for use on pipes up to and including DN 600 mm and can resist a pressure of 16 bar. Please contact us or your distributor for more information regarding pressures on gas pipes.

FLANGE DESIGN

Flanges are drilled acc. to DIN 2576 and NEN 1092-1. The flange thickness is 24 mm for flanges up to DN 200 and 26 mm for flanges up to up to DN 300. Standard flanges are flat faced PN 10, but raised faced, ASA and PN 16 flanges are available upon request.

Stainless steel tapping tee type **SST - PE/PVC execution** are specifically made for permanent (hot) taps on PE / PVC pipes. For water, gas and petrochemical fluids.



APPLICATION

The SST PE / PVC execution is a T-piece specifically created for PE/ PVC pipes. Compared with our standard T-piece it has 3 significant differences;

1. It is specifically made on the PE / PVC outside diameter having no tolerance.
2. It has 50% more length requirement than standard to intercept the movement of PE / PVC pipes
3. Every PE/PVC executed T-piece has a full circled stainless steel strip (10mm width * 2mm thickness).

AVAILABLE SIZES

SST PE/PVC tapping tee clamps are available for pipe diameters from DN 80 up to and including DN 800.

MATERIAL SPECIFICATIONS

Other tapping tee rubber gasket and product material specifications are identical to the specifications of the standard repair clamps.

PRESSURE RATINGS

Pressure ratings depend on the type of pipe, branch OD, medium etc. In general, SST tapping Tees are for use on pipes up to and including DN 600 mm and can resist a pressure of 10-16 bar. Please contact us or a distributor for more information regarding pressures on gas pipes.

FLANGE DESIGN

Flanges are drilled acc. to DIN 2576 and NEN 1092-1. The flange thickness is 24 mm for flanges up to DN 200 and 26 mm for flanges up to up to DN 300. Standard flanges are flat faced PN 10, but raised faced, ASA and PN 16 flanges are available upon request



Stainless steel emergency **repair sets (ERS)** are used for the permanent repair of damaged pipes. For water, gas and petrochemical fluids.



APPLICATION

The function of the emergency repair set is to reduce the stock that has to be carried by the water companies and to improve the availability of clamps in case of emergency repairs.

Especially for larger repair clamps that are relatively seldom used, it is convenient to have the combi repair clamp available so that any required clamp with a diameter between 91 and 780 mm can be assembled from the sections in the emergency repair set.

The sections are packed in a wooden crate and each time that two or more sections are used, the used sections can be re-ordered to complete the crate for the next emergency.

The sections, which increase in size, are marked A,B,C,D and E.

Standard section length is 400 mm

CLAMP COMBINATIONS

Use the table on the second page on the right to find the right combination of clamp sections for the range you need. This combination list is also supplied with a complete emergency repair set.

PRESSURE RATINGS

The pressure for which the clamp can be used varies with the number of sections, pipe diameter, medium etc. Use the following table as a guide:

Pipe OD	For water	For gas
91-271	16 Bar	6 Bar
272-374	10 Bar	4 Bar
365-545	10 Bar	3 Bar
546-632	6 Bar	1 Bar
632-669	4 Bar	0,5 Bar
669-780	2 Bar	0,5 Bar

Nominal working pressure under ideal circumstances.

AVAILABLE RUBBER GASKETS

Emergency Repair Sets can be supplied with the following types of rubber:

EPDM	- potable water - waste water	max 60 degr. C.
EPDM HT	- potable water - waste water	max 150 degr. C.
NBR	- natural gas - potable water - waste water	max 70 degr. C.
VITON	- several chemicals please contact us	max 200 degr. C.

RS-1 (one part)	Plate lenght	Clamp length	Range	
			Min. OD	Max. OD
A	317	400 / 500 / 600	91	98
B	383	400 / 500 / 600	111	121
C	446	400 / 500 / 600	131	141
D	543	400 / 500 / 600	162	172
E	637	400 / 500 / 600	193	203

RS-2 (two parts)	Combined with	Plate lenght	Clamp length	Range	
				Min. OD	Max. OD
A	B	700	400 / 500 / 600	213	233
	C	763	400 / 500 / 600	233	253
	D	860	400 / 500 / 600	264	284
	E	954	400 / 500 / 600	295	315
B	C	829	400 / 500 / 600	253	273
	D	926	400 / 500 / 600	284	304
	E	1020	400 / 500 / 600	314	334
C	D	989	400 / 500 / 600	304	324
	E	1083	400 / 500 / 600	335	355
D	E	1180	400 / 500 / 600	366	386

RS-3 (three parts)	Combined with	Plate lenght	Clamp length	Range	
				Min. OD	Max. OD
A	B and C	1146	400 / 500 / 600	354	384
	B and D	1243	400 / 500 / 600	386	416
	B and E	1337	400 / 500 / 600	416	446
	C and D	1306	400 / 500 / 600	406	436
	C and E	1400	400 / 500 / 600	436	466
	D and E	1497	400 / 500 / 600	467	497
	C and D	1327	400 / 500 / 600	426	456
B	C and E	1466	400 / 500 / 600	456	486
	D and E	1563	400 / 500 / 600	487	517
	D and E	1626	400 / 500 / 600	508	538

RS-4 (four parts)	Combined with	Plate lenght	Clamp length	Range	
				Min. OD	Max. OD
A	B, C and D	1689	400 / 500 / 600	527	567
	B, C and E	1783	400 / 500 / 600	558	598
	B, D and E	1880	400 / 500 / 600	589	629
D	D, E and A	1327	400 / 500 / 600	609	649
C	C, D and E	1626	400 / 500 / 600	629	669

RS-5 (five parts)	Combined with	Plate lenght	Clamp length	Range	
				Min. OD	Max. OD
A	B, C, D and E	2326	400 / 500 / 600	730	780

One tool, many solutions

United Pipeline Products has developed the ultimate repair coupling for the repair and joining of any type of pipeline. With OX, you have a high quality tool at your fingertips that is quick to install and enables permanent solutions and repairs. For utility and industrial construction companies, OX is the ideal tool to ensure everything flows as it should.

Advantages



Multifunctional:

One tool for both wide range joining and repairing pipes



High quality:

stainless steel, electrolytic zinc plated flanged nuts, deburred and passivated metal parts, made in the Netherlands



Efficient:

Quick and easy to install with just a wrench, often without releasing pressure on the pipe



Strong:

solid construction suitable for working pressures up to 24 bar



Angular deflection
up to 8°



Can be used anywhere:
for any terrain and situation,
no loose parts

OX works on all terrains.

This stainless steel repair coupling combines, in an unprecedented way, reliability with multifunctionality. With its high pressure class rating and angular deflection compensation, this repair coupling is perfect for applications in hilly surroundings. Various situations and problems can be remedied in no time.



Advantages



joining



flexible connection



weld seams



transitions



horizontal rupture



damage/cracks



replace/install
central section



vertical rupture



rupture due to
subsidence



angular deflection



corrosion



rupture due to
difference in height

Repair Coupling Data Sheets

OX TYPES

OX is available in 3 variants



OX 140



OX 210



OX 280

- Technical details are subject to change.
- Follow fitting/assembly instructions
- Working pressure for industrial and land-based applications with 1.5x safety factor in bars

REPAIR COUPLING DATA SHEET - OX140

OX

Article no.	PN	Range mm	Width mm	Parts	Gasket	ø diff. mm	Repair length mm	Ang. Defl.	Bolt size	No. Bolts	Nm
OX.2R.0043.14.E.304	24	43-60	140	AISI 304	EPDM	8	100	8°	M12	4	40
OX.2R.0052.14.E.304	24	52-64	140	AISI 304	EPDM	8	100	8°	M12	4	40
OX.2R.0059.14.E.304	24	59-76	140	AISI 304	EPDM	8	100	8°	M12	4	40
OX.2R.0070.14.E.304	24	70-84	140	AISI 304	EPDM	8	100	8°	M12	4	40
OX.2R.0080.14.E.304	24	80-96	140	AISI 304	EPDM	8	100	8°	M12	4	40
OX.2R.0087.14.E.304	24	87-109	140	AISI 304	EPDM	10	100	8°	M12	4	40
OX.2R.0104.14.E.304	24	104-126	140	AISI 304	EPDM	10	100	8°	M12	4	40
OX.2R.0108.14.E.304	24	108-133	140	AISI 304	EPDM	10	100	8°	M14	4	40
OX.2R.0113.14.E.304	24	113-136	140	AISI 304	EPDM	10	75	8°	M14	4	40
OX.2R.0121.14.E.304	24	121-144	140	AISI 304	EPDM	10	75	8°	M14	4	40
OX.2R.0124.14.E.304	24	124-146	140	AISI 304	EPDM	10	75	8°	M14	4	40
OX.2R.0138.14.E.304	24	138-160	140	AISI 304	EPDM	10	75	8°	M14	4	40
OX.2R.0147.14.E.304	24	147-169	140	AISI 304	EPDM	10	75	8°	M14	4	40
OX.2R.0152.14.E.304	16	152-174	140	AISI 304	EPDM	10	75	8°	M14	4	40
OX.2R.0159.14.E.304	16	159-181	140	AISI 304	EPDM	10	75	8°	M14	4	40
OX.2R.0164.14.E.304	16	164-186	140	AISI 304	EPDM	10	75	8°	M14	4	40
OX.2R.0180.14.E.304	16	180-202	140	AISI 304	EPDM	10	75	8°	M14	4	40
OX.2R.0190.14.E.304	16	190-213	140	AISI 304	EPDM	10	75	8°	M14	4	40
OX.2R.0207.14.E.304	16	207-232	140	AISI 304	EPDM	10	75	8°	M14	4	40
OX.2R.0220.14.E.304	16	220-242	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0230.14.E.304	16	230-252	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0236.14.E.304	16	236-258	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0244.14.E.304	16	244-267	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0260.14.E.304	16	260-282	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0263.14.E.304	16	263-285	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0270.14.E.304	16	270-293	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0286.14.E.304	16	286-308	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0294.14.E.304	16	294-316	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0305.14.E.304	16	305-327	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0310.14.E.304	16	310-332	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0322.14.E.304	16	322-344	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0336.14.E.304	16	336-358	140	AISI 304	EPDM	10	75	8°	M14	4	60
OX.2R.0340.14.E.304	16	340-362	140	AISI 304	EPDM	10	75	8°	M14	4	60

REPAIR COUPLING DATA SHEET - OX210

OX

Article no.	PN	Range mm	Width mm	Parts	Gasket	ø diff. mm	Repair length mm	Ang. Defl.	Bolt size	No. Bolts	Nm
OX.2R.0043.28.E.304	24	43-60	280	AISI 304	EPDM	8	240	8°	M12	8	40
OX.2R.0052.28.E.304	24	52-64	280	AISI 304	EPDM	8	240	8°	M12	8	40
OX.2R.0059.28.E.304	24	59-76	280	AISI 304	EPDM	8	240	8°	M12	8	40
OX.2R.0070.28.E.304	24	70-84	280	AISI 304	EPDM	8	240	8°	M12	8	40
OX.2R.0080.28.E.304	24	80-96	280	AISI 304	EPDM	8	240	8°	M12	8	40
OX.2R.0087.28.E.304	24	87-109	280	AISI 304	EPDM	10	240	8°	M12	8	40
OX.2R.0104.28.E.304	24	104-126	280	AISI 304	EPDM	10	240	8°	M12	8	40
OX.2R.0108.28.E.304	24	108-133	280	AISI 304	EPDM	10	240	8°	M14	8	40
OX.2R.0113.28.E.304	24	113-136	280	AISI 304	EPDM	10	215	8°	M14	8	40
OX.2R.0121.28.E.304	24	121-144	280	AISI 304	EPDM	10	215	8°	M14	8	40
OX.2R.0124.28.E.304	24	124-146	280	AISI 304	EPDM	10	215	8°	M14	8	40
OX.2R.0138.28.E.304	24	138-160	280	AISI 304	EPDM	10	215	8°	M14	8	40
OX.2R.0147.28.E.304	24	147-169	280	AISI 304	EPDM	10	215	8°	M14	8	40
OX.2R.0152.28.E.304	16	152-174	280	AISI 304	EPDM	10	215	8°	M14	8	40
OX.2R.0159.28.E.304	16	159-181	280	AISI 304	EPDM	10	215	8°	M14	8	40
OX.2R.0164.28.E.304	16	164-186	280	AISI 304	EPDM	10	215	8°	M14	8	40
OX.2R.0180.28.E.304	16	180-202	280	AISI 304	EPDM	10	215	8°	M14	8	40
OX.2R.0190.28.E.304	16	190-213	280	AISI 304	EPDM	10	215	8°	M14	8	40
OX.2R.0207.28.E.304	16	207-232	280	AISI 304	EPDM	10	215	8°	M14	8	40
OX.2R.0220.28.E.304	16	220-242	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0233.28.E.304	16	233-255	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0236.28.E.304	16	236-259	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0244.28.E.304	16	244-267	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0260.28.E.304	16	260-282	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0263.28.E.304	16	263-285	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0270.28.E.304	16	270-293	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0280.28.E.304	16	280-302	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0294.28.E.304	16	294-318	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0305.28.E.304	16	305-327	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0310.28.E.304	16	310-332	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0322.28.E.304	16	322-344	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0336.28.E.304	16	336-358	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0340.28.E.304	16	340-362	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0363.28.E.304	16	363-385	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0385.28.E.304	16	385-407	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0413.28.E.304	16	413-435	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0434.28.E.304	16	434-466	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0466.28.E.304	16	466-496	280	AISI 304	EPDM	10	215	8°	M14	8	60
OX.2R.0490.28.E.304	16	490-522	280	AISI 304	EPDM	10	215	8°	M14	8	80
OX.2R.0528.28.E.304	16	528-560	280	AISI 304	EPDM	10	215	8°	M14	8	80
OX.2R.0544.28.E.304	16	544-576	280	AISI 304	EPDM	10	215	8°	M14	8	80
OX.2R.0578.28.E.304	16	578-610	280	AISI 304	EPDM	10	215	8°	M14	8	80
OX.2R.0606.28.E.304	16	606-638	280	AISI 304	EPDM	10	215	8°	M14	8	80
OX.2R.0634.28.E.304	16	634-666	280	AISI 304	EPDM	10	215	8°	M14	8	80
OX.2R.0650.28.E.304	16	650-682	280	AISI 304	EPDM	10	215	8°	M14	8	80
OX.2R.0685.28.E.304	16	685-717	280	AISI 304	EPDM	10	215	8°	M14	8	80
OX.2R.0715.28.E.304	12	715-747	280	AISI 304	EPDM	10	215	8°	M14	8	80
OX.2R.0746.28.E.304	12	746-770	280	AISI 304	EPDM	10	215	8°	M14	8	80

REPAIR COUPLING DATA SHEET - OX280

OX

Article no.	PN	Range mm	Width mm	Parts	Gasket	ø diff. mm	Repair length mm	Ang. Defl.	Bolt size	No. Bolts	Nm
OX.2R.0043.21.E.304	24	43-60	210	AISI 304	EPDM	8	170	8°	M12	6	40
OX.2R.0052.21.E.304	24	52-64	210	AISI 304	EPDM	8	170	8°	M12	6	40
OX.2R.0059.21.E.304	24	59-76	210	AISI 304	EPDM	8	170	8°	M12	6	40
OX.2R.0070.21.E.304	24	70-84	210	AISI 304	EPDM	8	170	8°	M12	6	40
OX.2R.0080.21.E.304	24	80-96	210	AISI 304	EPDM	8	170	8°	M12	6	40
OX.2R.0087.21.E.304	24	87-109	210	AISI 304	EPDM	10	170	8°	M12	6	40
OX.2R.0104.21.E.304	24	104-126	210	AISI 304	EPDM	10	170	8°	M12	6	40
OX.2R.0108.21.E.304	24	108-133	210	AISI 304	EPDM	10	170	8°	M14	6	40
OX.2R.0113.21.E.304	24	113-136	210	AISI 304	EPDM	10	145	8°	M14	6	40
OX.2R.0121.21.E.304	24	121-144	210	AISI 304	EPDM	10	145	8°	M14	6	40
OX.2R.0124.21.E.304	24	124-146	210	AISI 304	EPDM	10	145	8°	M14	6	40
OX.2R.0138.21.E.304	24	138-160	210	AISI 304	EPDM	10	145	8°	M14	6	40
OX.2R.0147.21.E.304	24	147-169	210	AISI 304	EPDM	10	145	8°	M14	6	40
OX.2R.0152.21.E.304	16	152-174	210	AISI 304	EPDM	10	145	8°	M14	6	40
OX.2R.0159.21.E.304	16	159-181	210	AISI 304	EPDM	10	145	8°	M14	6	40
OX.2R.0164.21.E.304	16	164-186	210	AISI 304	EPDM	10	145	8°	M14	6	40
OX.2R.0180.21.E.304	16	180-202	210	AISI 304	EPDM	10	145	8°	M14	6	40
OX.2R.0190.21.E.304	16	190-213	210	AISI 304	EPDM	10	145	8°	M14	6	40
OX.2R.0207.21.E.304	16	207-232	210	AISI 304	EPDM	10	145	8°	M14	6	40
OX.2R.0220.21.E.304	16	220-242	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0233.21.E.304	16	233-255	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0236.21.E.304	16	236-259	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0244.21.E.304	16	244-267	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0260.21.E.304	16	260-282	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0263.21.E.304	16	263-285	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0270.21.E.304	16	270-293	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0280.21.E.304	16	280-308	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0294.21.E.304	16	294-318	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0305.21.E.304	16	305-327	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0310.21.E.304	16	310-332	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0322.21.E.304	16	322-344	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0336.21.E.304	16	336-358	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0340.21.E.304	16	340-362	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0363.21.E.304	16	363-385	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0385.21.E.304	16	385-407	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0413.21.E.304	16	413-435	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0434.21.E.304	16	434-466	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0466.21.E.304	16	466-498	210	AISI 304	EPDM	10	145	8°	M14	6	60
OX.2R.0490.21.E.304	16	490-522	210	AISI 304	EPDM	10	145	8°	M14	6	80
OX.2R.0528.21.E.304	16	528-560	210	AISI 304	EPDM	10	145	8°	M14	6	80
OX.2R.0544.21.E.304	16	544-576	210	AISI 304	EPDM	10	145	8°	M14	6	80
OX.2R.0578.21.E.304	16	578-610	210	AISI 304	EPDM	10	145	8°	M14	6	80
OX.2R.0606.21.E.304	16	606-638	210	AISI 304	EPDM	10	145	8°	M14	6	80
OX.2R.0634.21.E.304	16	634-666	210	AISI 304	EPDM	10	145	8°	M14	6	80
OX.2R.0650.21.E.304	16	650-682	210	AISI 304	EPDM	10	145	8°	M14	6	80
OX.2R.0685.21.E.304	16	685-717	210	AISI 304	EPDM	10	145	8°	M14	6	80



UNITED PIPELINE PRODUCTS



TORCOFIX K TORQUE WRENCH

Controlled screw tightening in the most widely used range of tightening on mechanical joints, repair clamps, sleeves, service saddles, tapping sleeves, flange bolts, couplings and hydrants with a range of 40-200 Nm or 30-150 lbf.

- For use in almost all industrial manufacturing areas.
- Release system triggers a tactile and audible signal for perfect installation.
- Sturdy, satin chrome-plated tubular steel design, with chrome-plated ratched head and high-quality synthetic components.
- Dual scale Nm and lbf below a window with a magnifying glass effect.



PIPE CLEANING STRAP

Prepares surfaces prior to cutting and drilling. Unique circular blades cut in every direction, allowing free movement of the strap. The pipe cleaning strap is manufactured using anti static belting, which ensures safety when working on any pipeline especially those carrying inflammable materials. The cleaning strap is suitable for cleaning mains up to 12" diameter, however longer versions for larger diameter pipes are available upon request.

The user-friendly handles incorporate a shortening device, which allows the operator to reduce the length of the cleaning strap to suit the diameter of the main being cleaned. The handles incorporate a anti-spin handle which is kind to the operators hands. Unlike other models, the pipe cleaning Strap incorporates cleaning teeth which are circular in design which enables each button to create a cutting action in both directions cleaning the pipe quicker and easier than conventional models.



DEEP SOCKET SET

The Deep Socket set contains 4 socket sizes that help to fasten the most common nut sizes on mechanical joints, repair clamps, sleeves, service saddles, tapping sleeves, flange bolts, couplings and hydrants.

Large diameter barrels make fast hand tightening easy. Operates with any 1/2" drive manual or impact wrench. Deep sockets are available individually or in a set. The Deep Socket set is also available with the Torcofix K Torque Wrench.



DOUBLESOT WRENCH SET

Double shot wrenches provide greater flexibility in dealing with the most common nut sizes that fasten mechanical joints, repair clamps, sleeves, service saddles, tapping sleeves, flange bolts, couplings and hydrants.

All of the DoubleShot wrenches have the "Bolt-Thru" design that lets bolts pass entirely through sockets and arm head so nuts can be secured on any threaded length. They are therefore perfect for installing all of our products. DoubleShot wrenches are available individually or in sets.



Split barrel repair clamps are used to repair leaking couplings, broken AC couplings, leaking bell joint connections and high pressure pipes. For water, gas and petrochemical fluids.



APPLICATION

With the split barrel repair clamp it is possible to repair the pipe without removing the broken coupling. Furthermore it can be easily installed even under rough and wet conditions. No special tools are needed, only a torque wrench.

PRESSURE RATINGS

The clamp is suitable for pressures up to 40 bar on pipes with a diameter up to 1500 mm and length up to 5.000 mm.

AVAILABLE SIZES

Split barrel repair clamps are designed and manufactured according to the specifications of each individual situation. Contact our sales department and fill out the "split barrel size request form". This form provides us with all the necessary details to make the quotation and, at a later stage, manufacture the product. We will need to know the pipe diameter, repair situation, pressure and medium as well as the required length.

If possible please provide us with a sketch or picture of the repair situation.

MATERIAL SPECIFICATIONS

- Material: stainless steel AISI 304 or 316.
- Bolts and nuts: stainless steel AISI 304 or 316 with PTFE coating to avoid galling.
- Depending on the size and weight of the product, a hinge construction will be provided to lift the split barrel over the pipe.
- A vent needs to be installed for testing purposes and to enable the medium to escape during installation. A vent valve is not included with the product.

AVAILABLE RUBBER GASKETS

Split barrels can be supplied with the following types of rubber:

EPDM	- potable water - waste water	max 60 degr. C.
	- natural gas - potable water - waste water	max 70 degr. C.
NBR	- natural gas - potable water - waste water	

- Axial gaskets are seated in grooves in each half of the split barrel.
- Restraint strips are welded in to prevent the rubber from flowing out during installation.
- The initial radial seal is obtained by tightening the end bolts at each end of the barrel.

Ductile tapping saddles are used to make permanent (hot) taps on existing or new pipe lines. For water and gas pipes.



APPLICATION

The DTS saddle can be used to make taps on all pipe types except PE for water and gas applications. This saddle is ideal for pipes covered with polyethylene, but also fits old pipes perfectly. When the DTS saddle is placed, the polyethylene layer does not have to be removed. Applicable for various types of material, such as asbestos-cement, cast iron and steel. There are test reports available upon request.

AVAILABLE SIZES

The DTS Saddle can be supplied with a tapped service outlet of 1/2" up to and including 2". Also available with branch according to Polva 1 1/2" to 2". Special service outlets are available upon request. The product can be supplied from DN 40 up to and including DN 600 with a strap width 60 mm.

DN in mm	Working Range
40	56-57
50	58-72
60	72-82
80	82-102
80	88-108
100	106-130
125	129-158
150	159-186
175	184-210
200	211-244
225	235-255
250	264-298
300	315-358
325-600	On request

MATERIAL SPECIFICATIONS

- Solid, well thought-out construction.
- High quality GGG 50 ductile iron.
- Produced according to DIN 3543, Part 1.
- Saddle is provided with epoxy coating, EWS epoxy according GSK-diridives RAL-G2-662 DVGW-W-270, which prevents rust.
- DVGW (G87 e 087) approved.
- Perfect seal through flat O-ring, which is enclosed in the chamber of the alignment saddle (see illustration). Through a special combination of O-ring and flat ring, a two-fold seal is obtained. The rubber for ring gasket is NBR.
- Wide, 100% stainless steel lower bracket.
- Lower bracket provided with a special rubber band.
- Stainless steel, electrolytic zinc plated nuts, to prevent fretting.

OTHER SADDLE SOLUTIONS



Please contact us or your distributor for more information regarding alternative saddle solutions and specifications.

Stainless steel inserts are used to reinforce PE and PVC pipes from the inside to allow the use of compression couplings. For water, gas and petrochemical fluids.



APPLICATION

Inserts are designed to reinforce pipe ends by providing inside support for PE or PVC pipes when pipe couplings or flange adaptors are used for the connection of these pipes. The inserts are produced for one pipe size. Its thin wall construction will not disturb the flow characteristics of the medium.

AVAILABLE SIZES

Below table provides an indication of the standard Insert product range. Please contact us or a distributor for more information regarding bigger pipe size Inserts.

MATERIAL SPECIFICATIONS

Inserts are made of stainless steel AISI 304. AISI 316 available on request.

PE pipe size	Length	PE pipe size	Length	PE pipe size	Length
50 x 2,9	100	125 x 3,7-3,1	120	225 x 6,3-5,5	160
50 x 3,7	100	125 x 7,4-7,1	120	225 x 13,4-12,8	160
50 x 4,6	100	125 x 11,4	120	225 x 20,5	160
63 x 3,6	100	140 x 12,8	140	250 x 9,6	160
63 x 5,8-5,1	100	140 x 8,0	140	250 x 14,8-14,2	160
63 x 8,6	100	160 x 4,5-3,9	140	250 x 22,7	160
75 x 4,3	100	160 x 9,5-9,1	140	280 x 8,7	160
75 x 6,8-6,5	100	160 x 14,6	140	280 x 16,6-15,9	160
75 x 10,3	100	180 x 6,0	140	280 x 25,4	160
90 x 2,7-2,2	120	180 x 10,7-10,2	140	315 x 9,2	160
90 x 5,4-5,1	120	180 x 16,4	140	315 x 12,4	160
90 x 8,2-7,8	120	200 x 6,9	160	315 x 17,9	160
90 x 12,3	120	200 x 11,9-11,4	160	315 x 18,7	160
110x 6,6-6,3	120	200 x 18,2	160	315 x 28,6	160
110 x 10,0-9,5-9,1	120			355 x 20,1	160
110 x 15,1	120			355 x 32,3	160
				355 x 35,0	160
				355 x 40,0	160

Stainless steel inserts are used to reinforce PE and PVC pipes from the inside to allow the use of compression couplings. For water, gas and petrochemical fluids.



APPLICATION

Inserts are designed to reinforce pipe ends by providing inside support for PE or PVC pipes when pipe couplings or flange adaptors are used for the connection of these pipes. The inserts are supplied with a wedge to overcome the tolerances in the plastic pipes. Its thin wall construction will not disturb the flow characteristics of the medium.

AVAILABLE SIZES

Below table provides an indication of the standard Insert product range. Please contact us or a distributor for more information regarding bigger pipe size Inserts.

MATERIAL SPECIFICATIONS

Inserts are made of stainless steel AISI 304. AISI 316 available on request.

PE pipe size	Length	PE pipe size	Length	PE pipe size	Length
63 x 3,6	175	140 x 12,8	175	250 x 9,6	225
63 x 5,8-5,1	175	140 x 8,0	175	250 x 14,8-14,2	225
63 x 8,6	175	160 x 4,5-3,9	200	250 x 22,7	225
75 x 4,3	175	160 x 9,5-9,1	200	280 x 8,7	225
75 x 6,8-6,5	175	160 x 14,6	200	280 x 16,6-15,9	225
75 x 10,3	175	180 x 6,0	200	280 x 25,4	225
90 x 2,7-2,2	175	180 x 10,7-10,2	200	315 x 9,2	225
90 x 5,4-5,1	175	180 x 16,4	200	315 x 12,4	225
90 x 8,2-7,8	175	200 x 6,9	200	315 x 17,9	225
90 x 12,3	175	200 x 11,9-11,4	200	315 x 18,7	225
110 x 6,6-6,3	175	200 x 18,2	200	315 x 28,6	225
110 x 10x0-9x5	175	225 x 6,3-5,5	225		
110 x 15,1	175	225 x 13,4-12,8	225		
125 x 3,7-3,1	175	225 x 20,5	225		
125 x 7,4-7,1	175				
125 x 11,4	175				

LP Couplings are designed for above ground connection of pipes. In bulk transport systems or pipe mail systems.



APPLICATION

The coupling is suitable for negative pressures and pressures up to 3 bar. Couplings for higher pressures can be supplied on request.

INSTALLATION

Maximum torque 45 Nm. The locking bar is designed in such way that the nuts are locked during tightening.

The installation of the coupling is very easy. Just push the coupling over the pipe ends and fasten the bolts. Disassembling the couplings before installation is not necessary. There are no loose parts.

AVAILABLE SIZES

LP Couplings are available in many different working ranges for pipes of DN 65 up to and including DN 250. Please consult our price-list for more details on the working ranges. Available lengths: 100, 150 and 200 mm. The working range of the LP Coupling is 2 mm on the outside pipe diameter.

MATERIAL SPECIFICATIONS

- The body consists of stainless steel AISI 304.
- The tightening bars and bolts are made of galvanised steel.
- M10 bolts with hexagon socket head screws.
- If required, the coupling can be supplied with all parts made of stainless steel AISI 304 which makes the product suitable for underground applications.
- Standard rubber quality is EPDM. Other grades are available on request.

Snap Clamps are used for the permanent repair of damaged pipes above ground. For water, gas and petrochemical fluids.



APPLICATION

Snap Clamps provide a fast and economic repair to small damages in pipes up to DN 300. They are applied on board of ships and by plumbers for repairs above ground. The rubber partially covers the inside of the band and allows the repair of small holes caused by corrosion or frost.

The clamps can be used on following pipe types:

- Ductile Iron (DI)
- Cast Iron (CI)
- Copper
- Steel (St.)

PRESSURE RATINGS

- Pipe OD 21-111 mm 16 bar
- Pipe OD 112-229 mm 10 bar
- Pipe OD 272-329 mm 6 bar

Maximum pressure for gas pipes is 4 bar
(for all pipe od's up to incl. 329 mm)

AVAILABLE SIZES

Snap Clamps are available for pipes up to DN 300 and length 75, 150 and 225 mm. We will send you a price-list with all available ranges upon request. For larger ranges we can supply double band snap clamps.

MATERIAL SPECIFICATIONS

- Lugs: ductile iron GGG 40 according to DIN 1693 or malleable iron GTW 40 according to DIN 1692, surface sheradized with 15 microns zinc.
- Band: stainless steel according to AISI 304.
- Bolts: special mushroom head square neck bolts. Bolt size M10 up to 2" and M12 for larger sizes. Material according to class 4.6, surface galvanized with 5 microns zinc.
- Hexagon nuts: according to DIN 934 class 5, surface galvanized with 5 microns zinc.
- Washer: according to DIN 125a, surface galvanized with 5 microns zinc.

AVAILABLE RUBBER GASKETS

Snap Clamps clamps can be supplied with the following types of rubber:

EPDM	- potable water - waste water	max 60 degr. C.
	- natural gas - potable water - waste water	max 70 degr. C.
NBR		

The **best connection** for pipeline systems

Since Hegawa was founded in 2004, the company has become a major supplier of pipeline connection products to the water and gas, shipbuilding and building industries. We focus mainly on couplings, flange adaptors, dismantling joints and expansion joints.

Today, we supply products ranging from DN 50 to DN 3000 mm. This includes a range of standard products, such as the wide range and plus range up to DN 300 mm. We also deliver specially made products, such as gripping couplings and flange adaptors, dismantling joints and expansion joints up to DN 3000 mm.

Frits Berben, Managing Director Hegawa B.V.

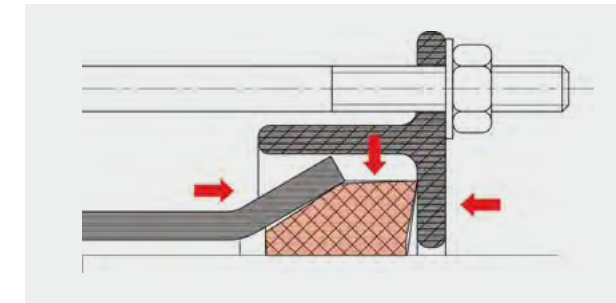
In 2020 Hegawa started a partnership with Van Tol Leidingtechniek B.V. It is a regular contractor for the Dutch Water Authorities, municipalities, and developers. They created a unique combination of services and products. Together they have all the tools to offer a full range of services for clients and circumstances that require the very best. Hegawa is now in a position to supply everything from drilling and flow stop equipment to dismantling joints and encapsulation collars.

As part of the United Pipeline Products Group, we can supply a complete solution that will give our customers the advantages of having one supplier for all the connections they need.



FittoSize. Couplings, flange adaptors and reducing coupling

Hegawa straight fit to size couplings, flange adaptors and reducing couplings are manufactured to join most types of plain ended rigid pipes or to join a plain ended pipe to a flanged fitting, pipe or valve. Working pressures may vary from 10 to 40 bar, depending on application. Flanges can be drilled to suit various international standards like ISO, DIN, BS and ANSI. Available from DN 50 to DN 2500 mm.



A set of trackhead bolts are tightened moving the end-rings towards each other, compressing the wedge-shaped rubber gaskets in the space formed by the end-ring, the flared middlering and the pipe surface forming a long-term leak-proof seal. To assure long term sealing without any additional maintenance after the initial installation, the design of the components is of extreme importance.



The most important component of the coupling is the rubber gasket. The material compound must be capable of retaining ultrahigh loading, extreme temperature variations, vibration, impact and flexing that can be caused by many variables in the pipeline system.

The Hegawa gasket compound uniquely developed and engineered to resist all these conditions, when confined in properly designed metal components, guarantees long term performance on many type of sources, including natural gas, oil and under many extreme conditions.

Hegawa couplings are approved by German Lloyd's (GL), DNV and American Bureau of Shipping (ABS)



HEGAWA Fastfit

WIDE RANGE COUPLINGS, FLANGE ADAPTORS
AND REDUCING COUPLINGS

The Hegawa FastFit Wide Range products offer the possibility to cover a much larger diameter range than in the past. More pipe materials can be jointed whether in steel, ductile iron, cast iron, asbestos cement, PVC or almost any other rigid pipe material.

Available from DN 50 mm up to and including DN 600 mm.



HEGAWA Fastfit

EXTRA WIDE RANGE COUPLINGS, FLANGE ADAPTORS
AND REDUCING COUPLINGS

Hegawa Fastfit Extra Wide Range couplings, flange adaptors and reducing couplings are suitable for a working pressure up to 16 bars. Suitable for joining pipes of different rigid materials, such as cast iron, steel, asbestos cement, stainless steel, PVC, PE (insert required) and so on. Suitable for use with sewage.

Available from DN 50 mm up to and including DN 1400 mm.



HEGAWA Fastfit plus

PLUS RANGE COUPLINGS AND FLANGE ADAPTORS

Hegawa Plus Range products have an outside diameter range of up to 34 mm. This means within every nominal size nearly all outside pipe diameters can be joined, whether in steel, ductile iron, cast iron, asbestos cement, PVC or almost any other rigid pipe material.

Products are available with longer sleeves which enables the customers to have larger gaps between the pipes.

Available from DN 50 mm up to and including DN 300 mm.



HEGAWA Fastfit grip

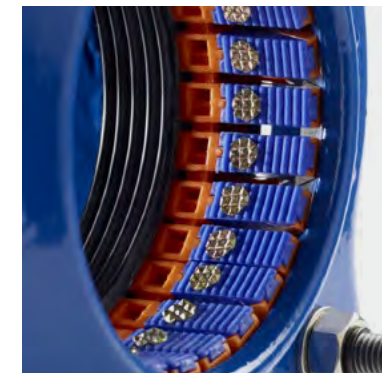
PLUS RANGE GRIP COUPLINGS AND FLANGE ADAPTORS

The Hegawa FastFit Plus Range Grip couplings and flange adaptors are a range of universal gripping products from DN 50 u.t.i. DN 400 which enables you to make locking connections on steel, ductile iron, cast iron, asbestos cement, GRP, PE and PVC pipes from 39 mm o.d. u.t.i. 430 mm o.d.

TECHNICAL CONCEPT

The new Plus Range Gripping products gives you a range of maximum 40 mm to connect all different pipe materials with each other and make them pull-out resistant. The new developed gasket in combination with the POM grippers results in a leaktight, pull-out resistant connection.

The sealing is being made through the incorporated O-rings making small separate chambers and taking care for a quick leaktight sealing. The POM grippers in combination with the incorporated steel rivets take care for the locking device. It is a universal design that can be used on all the pipe materials without changing them.



HEGAWA Fastfit grip

COUPLINGS AND FLANGE ADAPTORS FOR PE / PVC PIPES

Hegawa now introduces the new pull-out resistance "Fastfit Grip" pipe coupling and flange adaptors for PE and PVC pipes.

TECHNICAL CONCEPT

The coupling consists of a sleeve that is placed between two end-rings. Between end-rings and sleeve, grip rings, press rings and gaskets are positioned. The end-rings are pressed onto the sleeve when the bolts are tightened. The rubber gasket, pressed by the press ring and grip ring, then completely fills up the space between pipe and coupling.

Because of the strong compression and the high quality of the rubber gasket, the pressure on the ring that guarantees the leak tight sealing, will remain on the required quality level for many years.



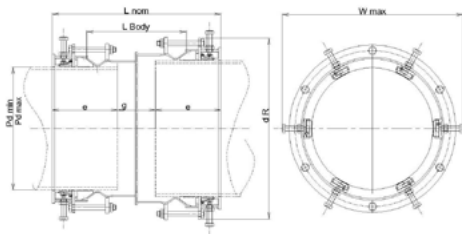
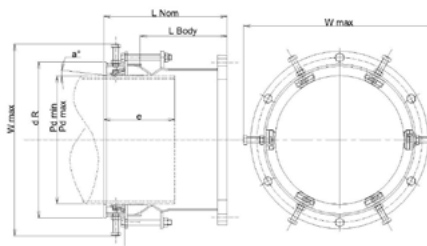
By tightening the bolts the press ring and the grip ring will press the gasket inside, until the press ring makes contact with the sleeve. From then on the brass grip ring starts to reduce it's diameter, and the sharp profile of the grip ring starts to cut into the PE pipe. After the bolts are tightened, until a metal-metal contact is reached, the coupling is ready for use.

HEGAWA **Wide Tolerance**

WIDE TOLERANCE RANGE END RESTRAINED MECHANICAL COUPLINGS, FLANGE ADAPTORS AND REDUCING COUPLINGS

Hegawa universal wide-tolerance range end restrained mechanical couplings and flange adapters provide end-load resistant connections between plain ended pipes and flange elements or connections between plain ended pipes of the same or different outside diameters.

Available from DN 300 mm up to and including DN 1400 mm.
Available pressure classes: PN10, PN16 and PN25.



HEGAWA **Wide Range Plus**

WIDE RANGE PLUS COUPLINGS AND FLANGE ADAPTORS

Allows the connection between pipes with several external diameters and different materials (e.g. PVC, ductile iron, steel and fibrocement pipes). Has two sealing rings, with incorporated orings, that assures an extremely efficient sealing. It allows to a maximum angle deflection of 6°.

Available from DN 25 mm up to and including DN 1200 mm.



HEGAWA **Dismanteling joints**

FLANGED, RESTRAINED DISMANTELING JOINTS

The Hegawa Flanged restrained dismantling joints are double flanged fittings that allow longitudinal adjustment in flanged pipe systems. They have been developed to provide greater flexibility at the planning and installation stages of flanged pipe systems and also for subsequent maintenance.

Available from DN 50 mm up to including DN 1600 mm.

Flanges can be drilled to suit various international standards like ISO, DIN, BS and ANSI for pressure classes PN 10, PN 16, PN 25 and PN 40.



HD-1

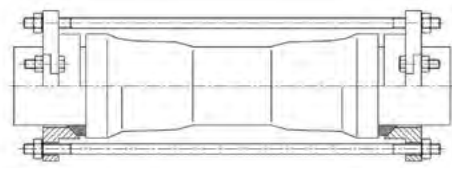
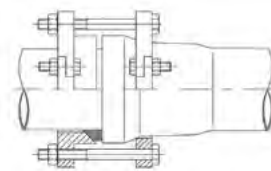


HD-2

HEGAWA **Bell joint**

BELL JOINT REPAIR CLAMPS

The Hegawa Flanged restrained dismantling joints are double flanged fittings that allow longitudinal adjustment in flanged pipe systems. They have been developed to provide greater flexibility at the planning and installation stages of flanged pipe systems and also for subsequent maintenance.



HEGAWA Ductile iron repair clamps

DUCTILE IRON REPAIR CLAMPS FOR WATER AND GAS SERVICE

Hegawa Ductile Iron Repair Clamps have been designed for the permanent repair of ductile iron, cast iron and steel pipes. Even on badly corroded pipes.

TECHNICAL CONCEPT

The 'waffle' type of rubber with incorporated bridging plates will take care for a quick and permanent leaktight seal. The Hegawa ductile iron repair clamps are constructed of ductile iron half housings giving them a high strength. The clamps will support and seal around the pipe for full length of the body, ensuring that sealing effectiveness is maintained in all circumstances. The inherent strength of the clamps will cater for circumferential pipe shear and also realign pipes.

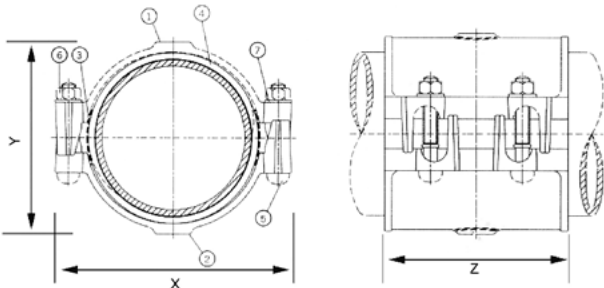
The clamps can be installed easily, no specialist installation tools are required. Only a torque wrench to confirm the correct bolt torque. The clamps are fully epoxy coated, taking care for a long term corrosion protection. No further protection such as wrapping is required.

AVAILABLE SIZES

The clamps are available from DN 50 mm up to and including DN 700 mm and can be supplied with a threaded outlet.

WORKING PRESSURES

The Hegawa Ductile Iron Repair Clamps have been designed for 16 bar working pressure and a test pressure of 24 bars with water applications.



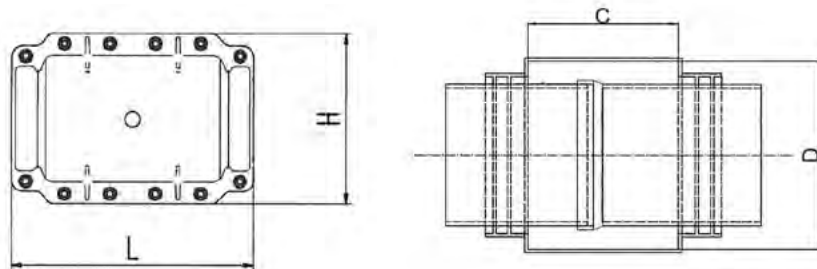
HEGAWA Encapsulation Collars

PN16 RATED ENCAPSULATION COLLARS

Hegawa Ductile Iron Repair Clamps have been designed for the permanent repair of ductile iron, cast iron and steel pipes. Even on badly corroded pipes.

TECHNICAL CONCEPT

Universal wide tolerance permanent repair collars, encapsulation collars and tapping tees providing the fastest and cost effective solution to high and low pressure repair problems and tapping issues. Available in diameters from 80 mm to 200 mm. Other diameters are fabricated on request.



HEGAWA Encapsulation Collars

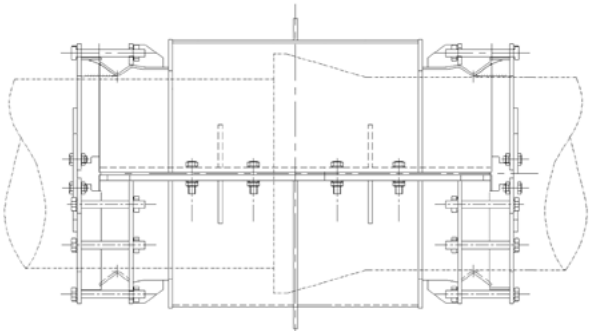
PN16 RATED WIDE-TOLERANCE ENCAPSULATION COLLARS

Wide range encapsulation collar, 30 mm tolerance on pipe outside diameter for repairing pipes, sockets, leaking elements or hot-tapping applications.

TECHNICAL CONCEPT

Universal wide tolerance permanent repair collars, encapsulation collars and tapping tees that provide solution to high and low pressure repair problems and tapping issues.

Available in diameters from DN 250 mm up to and including DN 2000 mm. Other diameters are fabricated on request.





“The best
connection
for pipeline
systems”



UNI-COUPLING



UNI-COUPLING

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

UNI-PLASTGRIP

- To connect plastic - plastic
- For restraint jointing
- Patented wedge shaped seal
- 2 grip rings for plastic pipes
- Stainless steel

UNI-COMBIGRIP

- 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

UNI-FLEX

- To connect metal - plastic
- To connect metal - metal
- To connect plastic - plastic
- For flexible jointing
- Patented wedge shaped seal
- Stainless steel

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

WITH OUTLET

- Pipe coupling with outlet for use on all pipe materials
- Coupling with outlet available on request
- Stainless steel

UNI-GRIP



UNI-PLASTGRIP



UNI-COMBIGRIP



UNI-FLEX



UNI-REP



WITH OUTLET



TECHNICAL DATA OVERVIEW

UNI-COUPLING

Type	Ø (mm)	Width (mm)	Pressure PN		Pressure PN	
 UNI-Grip	19 - 172	45 - 110	70 to 32	Working pressure for industrial and land-based applications with 1.5x safety factor in bars	16	Working pressure for marine applications with 1.5x safety factor in bars
	185 - 745	138 - 146	25 to 6		16 to 2.5	
 UNI-Plastgrip	39 - 172	60 - 110	16		10	
	172 - 640	140 - 146	16 to 6		10 to 2.5	
 UNI-Combigrp	39 - 172	60 - 110	16		10	
	172 - 640	140 - 146	16 to 6		10 to 2.5	
 UNI-Flex	19 - 172	45 - 110	25		16	
	188 - 2090 Bigger on request	140 - 206 280 - 420	25 to 6		16 to 2.5	
 UNI-Rep	33 - 172	45 - 110	25		16	
	185 - 2090 Bigger on request	140 - 206 280 - 420	25 to 10		16 to 6	

Wider range	OD (mm)	Number of couplers	Material quality	Material thickness
UNI-Coupling	19 - 47.5 47.5 - 172	8 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-Combigrp			X	restrained
UNI-Flex	X	X	X	flexible
UNI-Rep	X	X	X	flexible
Sealing material	EPDM	NBR	Viton (on request)	Silicone (on request)
Temperature range	-30 °C - +125 °C	-20 °C - +80 °C	-20 °C - +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	Casing	Lock bars	Bolts	Anchoring Gripring & Plastgripring
W5	1.4404 (316L), 1.4571 (316Ti), 1.4462 (318LN), 1.4162 (Lean Duplex) 1.4301 (304)	1.4404 (316L), 1.4571 (316Ti), 1.4462 (318LN), 1.4162 (Lean Duplex)	A4-80, A4-70	1.4310 (301) 1.4404 (316L), 1.4571 (316Ti), 1.4462 (318LN), 1.4162 (Lean Duplex)

TECHNICAL DATA OVERVIEW

UNI-COUPLING

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	Up to 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	Up to 25	
 UNI-Flex / UNI-Rep	300 - 2090 Bigger on request	420	Up to 25	



Sealing material	EPDM	NBR	Viton (on request)	Silicone (on request)
Temperature range	-30 °C - +125 °C	-20 °C - +80 °C	-20 °C - +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	Casing	Lock bars	Bolts	
W5	1.4404 (316L), 1.4571 (316Ti), 1.4462 (318LN), 1.4162 (Lean Duplex) 1.4301 (304)	1.4404 (316L), 1.4571 (316Ti), 1.4462 (318LN), 1.4162 (Lean Duplex)	A4-80, A4-70	

Romacon Petro **Split Repair Sleeves** are used for making permanent repairs to onshore and offshore pipelines. For water, gas and petrochemical fluids.



APPLICATION

- For on shore installation
- For off shore installation, with zinc anodes and marine epoxy coating
- Weldable, with heat insulating gaskets
- With girder rings, if required

Split sleeves are widely used for making repairs to a variety of high or low pressure and high or low temperature pipelines, containing oil, water, gas, steam and chemical fluids.

The clamp halves are joined by bolts to form a high integrity pressure vessel around the damaged or leaking pipe.

Sealing is provided by elastomer seals of the highest quality selected for compatibility with the pipeline fluid and operating temperature.

The split sleeves may also be welded after installation to provide a permanent repair. It may be completely seal-welded with the pipe line in operation.

MATERIAL SPECIFICATIONS

Standard Clamp Components	
Body (shell)	A216 WCB, A216 WCC, A352 LCC, A516 Gr.70 (Suitable for normally corrosive services)
Stud bolts	A193 Gr. B7
Nuts	A194 Gr. 2H
Gaskets	NBR or Viton
Coating	Yellow Epoxy Polyamide, standard or Marine epoxy

STANDARD SIZES

Other sizes and lenghts available on request

API Pipe Size (inches)	Sealing length (inches)	Total length ansi 400/600 (inches)	Total length ansi 900 (inches)
4	5 1/2	9,25	9,25
6	5 1/2	9,25	11
8	5 1/2	9,25	11
10	5 1/2	11	11
12	5 1/2	11	11
14	8	14	12,5
16	8	14	14
18	8	14	14
20	8	14	14
22	8	14	14
24	8	14	15,75
26	8	15	15,75
28	8	15	15,75
30	8	15	17,25
32	8	15	17,25
34	8	15	17,25
36	8	16	17,25
38	8	16	19
40	8	16	19
42	8	17,5	19
48	8	17,5	20,5

DESIGN FEATURES AND METHODS

Safety: The clamps are fully compensatory pressure vessels, hydrostatically tested to 1.3 times the rated working pressure (as per ASME Section VIII Div.1 clause UG-99).

All Clamps are equipped with a 1” NPT vent port.

Design criteria and industry standards: All split sleeves are tested in accordance with the API specification 6H, “Specification for End Closures, Connectors, and Swivels”, ASME BOILER AND PRESSURE VESSEL CODE, Section VIII; and with ANSI standards B-31.3, B31.4, & B31.8, where applicable.

Certification: EN 10204 3.1

Ease of installation and maintenance: All split sleeves are designed to be installed with the most common tools available and are readily field repairable, including full seal replacement.

Economy: Split sleeve repair clamps are designed utilizing the latest technology, allowing optimization of design techniques and materials, resulting in lower weight, reduced bending tendencies, and a more economical.

Split sleeves are suitable for sour environment
This type of split sleeve is designed to be used in hydrogen sulfide (H2S) bearing hydrocarbon service. For sour services, the body material will meet NACE MR0175.

CERTIFICATION AND TESTING

Non destructive testing (NDT):

- 100 % magnetic particle inspection (MPI) for stiffener to shell weld (fillet)
- 100 % ultrasonic testing of vent plug welds
- 100 % MPI of hinge welds

Hydrotest as per ASME Section VIII Div.1 clause UG-99

ADDITIONAL MATERIAL SPECIFICATIONS:

ANSI pressure classes 300, 400, 600, 900 and 1500.

Design based on: ASME Sec. VIII, API 6H , ANSI B31.4, B31.8 and Split Sleeve Software 3S).

Design control and stress analysis with Finite Element Package.

Gaskets: The highest quality NBR or VITON elastomer seal precisely compatible with the line fluid and ambient temperature will be installed into the split sleeves.

- NBR temperature range is from - 20 °C to + 80 °C
- HNBR temperature range is from - 20 °C to + 150 °C
- VITON temperature range is from - 20 °C to + 200 °C

Gaskets are replaceable without any special tools.

Girder rings can be installed upon clients request.

Double Row Sealing (DRS) design is also available. This special design is more suitable for where probable leakage is much costly or dangerous; such as gaseous services & offshore applications.

WELDABLE SPLIT SLEEVES

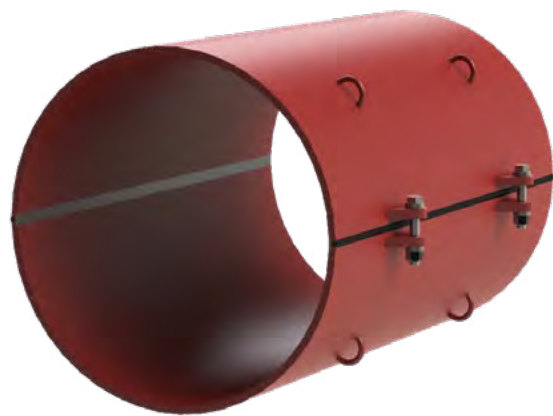
All clamps can be fully prepared for welding after installation (welding procedure is available on request).

Heat insulators (parallel to the seals) protect the seals from heat during the welding of the sleeves to the pipe.

PIPE REINFORCEMENT SLEEVE

ROMACON PETRO

Romacon Petro **Pipe mates** are designed to reinforce non leaking, weakened, dented or damaged pipelines. For water, gas and petrochemical fluids.



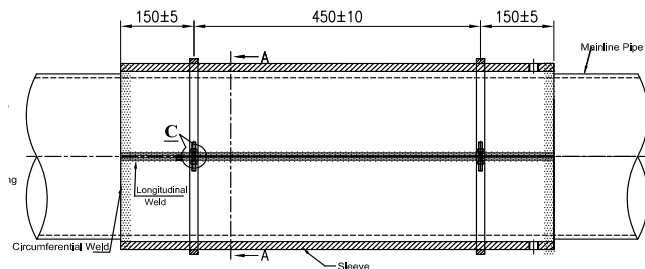
PRODUCT DESCRIPTION

Pipe mates are designed to reinforce non leaking, weakened, dented or damaged pipelines while the line remains on stream. Supplied for any specified pressure, wall thickness and class. Supplied in various lengths and materials as specified by the client. Length up to 3.000 mm

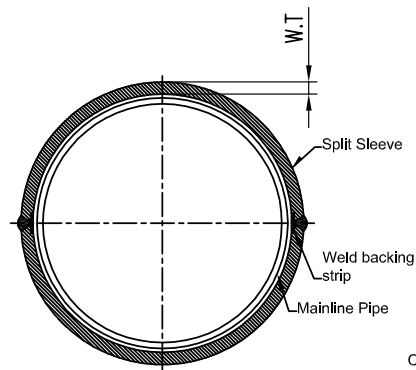
MATERIAL SPECIFICATIONS

Pipe mates are manufactured from steel plate ASTM A516 Gr. 70 (Equivalent to A572 Gr. 50) or material acc. to API 5L x 65. Longitudinal butt-welding is required for all applications and back-up strips are furnished. For pressure containing applications, the sleeve must be fully seal-welded to the pipeline.

Standard Clamp Components	
Body (shell)	A516 Gr. 70 or API 5L x 65
Back strip	A36



Basic drawing of a pipe mate reinforced sleeve



PITHOLE REPAIR CLAMP

ROMACON PETRO

Romacon Petro needle clamps are **pithole repair clamps** and are the appropriate solution to repair small corrosion pits in steel pipes. For water, gas and petrochemical fluids.



PRODUCT DESCRIPTION

No surface preparation is required and a simple wrench is sufficient to install the clamp. The needle guides the tip of the conical rubber gasket to enter the corroded area.

By tightening the plug, the rubber gasket sufficiently compresses to seal off the leak.

Maximum working pressure is 2000 psi (138 bar).

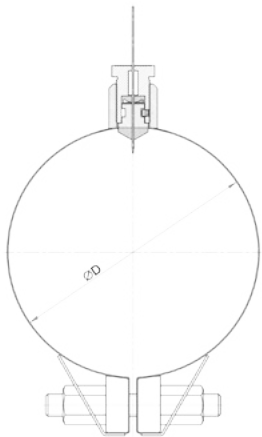
The needle clamp can be installed by your own personnel.

MATERIAL SPECIFICATIONS

Standard Clamp Components	
Body	Stainless steel AISI 304
Stud bolts	A193 Gr. B7
Nuts	A194 Gr. 2H
Gasket	NBR or Viton
Pilot Pin	Stainless steel AISI 316
Packing force screw	ASTM A105, galvanized
Thrust washer	Brass
Dual dia pin	Stainless steel AISI 316



weld cap



Basic drawing of a needle clamp

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United Pipeline Products



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