

REPAIR CLAMPS



ISO 9001:2008

BUREAU VERITAS
Certification



- Size :** DN 21 to DN 516
Ends: For rigid pipes
Min Temperature : - 10°C (with EPDM gasket)
Max Temperature : + 60°C (for temporarily used and EPDM gasket)
Max Pressure : 20 Bars up to DN140
Specifications : EPDM or NBR gasket
SS 304 belt
For PE, PVC, steel and ductile iron pipes

Materials : SS 304 belt

REPAIR CLAMPS

SPECIFICATIONS :

SS 304 belt
 EPDM or NBR gasket
 For PE, PVC, steel and ductile iron pipes

USE:

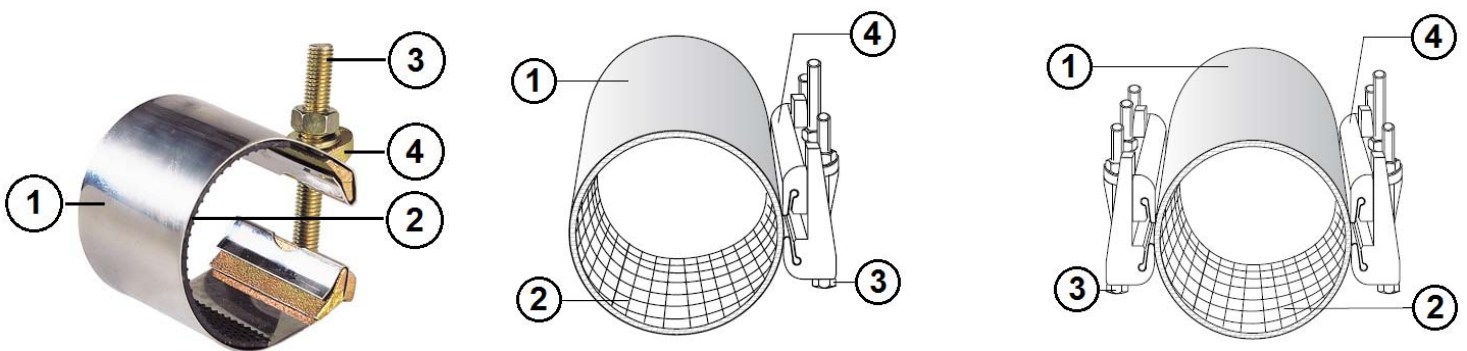
Drinkable water for Ref. 1401, 1403 and 1406 (EPDM)
 Irrigation and sewage systems for Ref. 1405 (NBR)
 Min and max Temperature Ts : - 10°C to + 60°C (for temporarily used) for EPDM gasket types Ref.1401-1403-1406
 Min and max Temperature Ts : + 0°C to + 85°C (for temporarily used) for NBR gasket types Ref.1405
 Max pressure Ps : see graph under

DN	20 – 140	141 – 200	201 – 250	251 – 300	301 – 400	401 - 500
Ps (Bars)	20	16	10	8	4.5	2.5

RANGE :

Temporarily repair clamp type M, 1 bolt length 80 mm with EPDM gasket **Ref.1401** from DN 21 to DN 173
 Repairing for complete break type B, 3 bolts, length 200 mm with EPDM gasket **Ref.1403** from DN 48 to DN 285
 Repairing for complete break type B, 3 bolts, length 200 mm with NBR gasket **Ref.1405** from DN 48 to DN 285
 Repairing for complete break type D, 3x2 bolts, length 200 mm with EPDM gasket **Ref.1406** from DN 88 to DN 516

MATERIALS :



Item	Designation	Materials Ref.1401-1403-1406	Materials Ref.1405
1	Insert	SS 304	SS 304
2	Gasket	EPDM (ACS)	NBR
3	Bolting	Steel 6.S	Steel 6.S
4	Clamp	Ductile iron EN GJS-500-7	Ductile iron EN GJS-500-7

REPAIR CLAMPS
SIZE Ref.1401-1403-1405 (in mm) :

**Ref.1401 Type M (Repairing)
1 bolt, Length 80mm**

Ref.	Ø external pipe		Ps (Bar)	Weig. (Kg)
	Mini	Maxi		
1401021	21	25	20	0.216
1401026	26	30	20	0.222
1401029	29	33	20	0.228
1401033	33	37	20	0.234
1401038	38	42	20	0.24
1401042	42	45	20	0.25
1401048	48	51	20	0.26
1401050	50	54	20	0.265
1401055	55	60	20	0.275
1401060	60	64	20	0.425
1401065	65	69	20	0.43
1401069	69	73	20	0.44
1401071	71	76	20	0.45
1401076	76	82	20	0.465
1401082	82	87	20	0.485
1401087	87	93	20	0.5
1401094	94	100	20	0.51
1401099	99	104	20	0.52
1401105	105	111	20	0.525
1401112	112	118	20	0.53
1401120	120	126	20	0.54
1401126	126	131	20	0.545
1401131	131	136	20	0.56
1401139	139	145	16	0.58
1401156	156	162	16	0.59
1401167	167	173	16	0.6

**Ref.1403 Type B
(Repairing for comp. Break)
3 bolts, Length 200mm**

Ref.	Ø external pipe		Ps (Bar)	Weig. (Kg)
	Mini	Maxi		
1403048	48	56	20	3.6
1403056	56	64	20	3.7
1403060	60	68	20	3.8
1403068	68	78	20	3.9
1403078	78	88	20	4
1403088	88	98	20	4.1
1403098	98	108	20	4.15
1403108	108	118	20	4.15
1403114	114	126	20	4.3
1403126	126	138	20	4.35
1403138	138	150	16	4.45
1403140	140	153	16	4.45
1403150	150	162	16	4.5
1403162	162	174	16	4.6
1403168	168	182	16	4.65
1403174	174	186	16	4.7
1403186	186	198	16	4.8
1403198	198	210	10	4.85
1403210	210	223	10	4.95
1403222	222	234	10	5.05
1403234	234	246	10	5.2
1403243	243	255	10	5.35
1403273	273	285	8	5.5

**Ref.1405 Type B
(Repairing for comp. Break)
3 bolts, Length 200mm**

Ref.	Ø external pipe		Ps (Bar)	Weig. (Kg)
	Mini	Maxi		
1405048	48	56	20	3.6
1405056	56	64	20	3.7
1405060	60	68	20	3.8
1405068	68	78	20	3.9
1405078	78	88	20	4
1405088	88	98	20	4.1
1405098	98	108	20	4.15
1405108	108	118	20	4.15
1405114	114	126	20	4.3
1405126	126	138	20	4.35
1405138	138	150	16	4.45
1405140	140	153	16	4.45
1405150	150	162	16	4.5
1405162	162	174	16	4.6
1405168	168	182	16	4.65
1405174	174	186	16	4.7
1405186	186	198	16	4.8
1405198	198	210	10	4.85
1405210	210	223	10	4.95
1405222	222	234	10	5.05
1405234	234	246	10	5.2
1405243	243	255	10	5.35
1405273	273	285	8	5.5

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SIZE Ref.1406 (in mm) :



**Ref.1406 Type D
(Repairing for comp. Break)
3 bolts x2,Length 200mm**

Ref.	Ø external pipe		Ps (Bar)	Weig. (Kg)
	Mini	Maxi		
1406088	88	110	20	7.6
1406114	114	137	20	7.75
1406138	138	160	20	7.85
1406160	160	182	20	8
1406182	182	202	20	8.1
1406202	202	224	16	8.2
1406217	217	240	16	8.3
1406240	240	262	16	8.45
1406262	262	284	10	8.65
1406273	273	296	10	8.85
1406296	296	319	8	9.05
1406324	324	346	8	9.25
1406346	346	368	8	9.4
1406365	365	387	8	9.5
1406387	387	410	4.5	9.6
1406410	410	432	4.5	9.7
1406428	428	450	4.5	9.8
1406450	450	474	4.5	10
1406470	470	492	4.5	10.2
1406492	492	516	2.5	10.45

REPAIR CLAMPS

STANDARDS :

Fabrication according to ISO 9001 : 2008

Directive 97/23/CE : Products excluded from directive (Article 1, § 3.2)

French water agreement **A.C.S. N° 16 ACC NY 049** for types with EPDM gasket **Ref.1401-1403-1406**

ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages. The customer must check the right choice of the products with the real service conditions.

INSTALLATION INSTRUCTIONS

1.1 Storage

The equipment has to be stored in covered places, protected from the sun, rain and all other atmospheric agents. Moreover it has to be avoided that the seal comes in contact with dust and dirt.

1.2 Installation

The structure and the construction method allow a good facility and fast assembly of the collar on the pipe to repair.

Here follow are described the operations to carry out during the installation:

1. Clean the part of the pipe to be repair from eventual soil deposits;
2. Position the repair clamp in correspondence with the cut or the hole;
3. Ensure that the tapered end of the gasket is not folded on itself in any point, and that it is well extended on the pipeline to be repaired;

Note: we suggest greasing the tapered end with soapy water, grease or Vaseline.

4. Put the opposite terminal of the clamp on the tapered end.
5. To insert the threaded studs in the respective positions of the buttonholes and manually shut.
6. Rotate the repair clamp in the indicated direction by the arrow printed on the label (indispensable operation for the definitive correct extension of the tapered end) possibly making sure that the damaged section of the pipeline remains under the section of vulcanized plate in the gasket.
7. Uniformly and gradually tighten the three or more screws so that the two clamps come together during the tightening, always parallel to each other according to the recommended tightening torque.

Note: make sure during this phase that the vulcanized welt sheet in the gasket, does not strain and it keeps its preformed bend: if it strains, it will compromise the seal.