



SPECIFICATIONS FOR REPAIR CLAMP

SPECIFICATION SAJ OT / RC / 001

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QUALITY ASSURANCE DEPARTMENT
RANHILL SAJ SDN. BHD

Ranhill
SAJ

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SPECIFICATION FOR REPAIR CLAMP

1. GENERAL

Features required are as follows or otherwise the Specification of AS 4181-1999 and relevant specifications shall be used.

2. FEATURES REQUIRED

a) Features required are as Table 1 specified as below:-

Nominal Pipe Size	Outside Diameter Range (mm)	Clamp Length (mm) and Approx weight (kgs)			
		150mm (06)	200mm (08)	300mm (12)	400mm (16)
50mm	45-55	1.2	1.5	2.4	
	59-67	1.2	1.5	2.4	
	69-76	1.2	1.5	2.4	
75mm	75-83	1.2	1.5	2.4	
	85-95	1.5	1.9	3.0	3.9
	95-104	1.5	2.0	3.0	4.2
100mm	104-113	1.7	2.1	3.3	4.4
	113-120	1.8	2.2	3.4	4.6
	121-130	2.0	2.5	3.9	5.3
125mm	126-136	2.0	2.5	3.9	5.3
	130-140	2.2	2.8	4.3	5.9
150mm	145-155	2.2	2.8	4.3	5.9
	151-161	2.2	2.8	4.3	5.9
	167-176	2.4	3.0	4.7	6.3
	174-183	2.4	3.0	4.7	6.3
	179-189	2.4	3.0	4.7	6.3
	189-199	2.6	3.2	5.0	6.7
200mm	196-205		3.5	5.4	7.4
	202-212		3.5	5.4	7.4
	218-228		3.7	5.7	7.8
	229-238		3.7	5.7	7.8
	236-245		3.7	5.7	7.8
225mm	248-257			8.0	10.4
	255-265			8.5	11.1
250mm	271-281			9.0	11.7
	281-290			9.3	12.1
	288-298			9.5	12.4
	298-309			10.0	13.0
	304-314			11.0	14.3
300mm	312-322			11.2	14.6
	322-331			11.5	15.0
	332-342			12.0	15.0
350mm	343-355			12.4	15.5
	356-366			12.8	16.0

b) Recommended pressure ratings:

- i) Clamps to suit pipes up to 300mm nominal size 1.6 Mpa
- ii) Clamps to suit pipes above 300mm nominal size 1.2 Mpa

c)

Description	Requirements
Recommended Clamp Length	CL = 2 OD
Min. Clamp Length	CL > OD
Longitudinal Damage	CL= 4 times the damage section

Note : L = Length

CL = Clamp Length

OD = Outside Diameter

- d) The nuts must of type 304 or 316 stainless steel.
- e) The design of the clamp shall consist of a stainless steel band and clamping system fully lined with an integral elastomeric gasket.
- f) The allowable internal pressure, excluding surge, which a component can safely withstand in service.
- g) A batch shall consist of clamps of a particular size range consecutively produced in a single, continuous and uninterrupted production run.

3. MATERIALS

Gasket shall be of EPDM formulated for water service, and made to ASTM D 2240 has antioxidant/antiozonant agents to increase shelf life. All gaskets have a gridded design, tapered ends and vulcanized armour plates for easy installation and optimum sealing efficiency.

4. TESTS AND INSPECTION

All repair clamps shall comply with tests in accordance with the requirements of specification.

5. MANDATORY MARKING

All repair clamps shall have the following information cast on the body: -

- Nominal size (DN), or nominal pipe size
- Nominal pressure (PN or Classes)
- Manufacturer's name or trade mark;
- Year of manufacture (last two digit);
- Body material designation

6. PACKING

All clamps shall be individually plastic wrapped and protected from damage during transit.

7. PRE-DELIVERY INSPECTION AND EVALUATION

- a) It is the responsibility of the tenderer to inform SAJ for inspection purposes during manufacturing and before delivery.
- b) SAJ reserve the right to inspect and witness the testing of product offered.
- c) At any time, when requested, the supplier shall provide SAJ a sample of the product offered for evaluation purposes. All costs shall be borne by the supplier.
- d) If at any time the supplier fails to deliver the required sample, the product is deemed fail to meet the specifications.

8. CERTIFICATION

- a) Manufacturer and/or supplier are required to provide a copy of the certificate and testing report from SIRIM, IKRAM or other recognized certification bodies.
- b) Tests report required should be those tests conducted within a year period.
- c) SAJ have the right to refuse offer or reject supply if the documents required are not enclosed.

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