

# PIPELINE LEAK REPAIR CLAMPS

Split sleeve repair clamp for pipelines



## Pipeline Leak Repair Clamps

for high-pressure pipes in the oil, gas, and petrochemical industry

Split sleeve repair clamps are extensively used for repairing various pipelines, whether they are high or low pressure and high or low temperature, carrying oil, water, gas, steam, or chemical fluids.

The clamp halves are joined with bolts to create a high-integrity pressure vessel around the damaged or leaking pipe. Sealing is achieved using elastomer seals of the highest quality, carefully selected for compatibility with the pipeline fluid and operating temperature. Additionally, after installation, the Pipeline Leak Repair Clamps can be welded to provide a permanent repair. This welding process can be completed while the pipeline is in operation, ensuring a completely sealed connection.

- 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



### 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 either a 1/2" or 1" NPT vent port, depending on size and client requirements.



### Easy to install and maintain

All split sleeve repair clamps are designed to be installed using commonly available tools and can be readily repaired in the field, including full seal replacement.



### Economy & Ergonomics

Split sleeve repair clamps are designed utilizing the latest technology, which allows for the optimization of design techniques and materials. This results in lower weight, reduced bending tendencies, and greater economic efficiency.



Weldable split sleeve repair clamps

With girder rings



Standard, on shore type



Off shore type, with zinc anode



### For sour environment

This type of split sleeve is designed for use in hydrogen sulfide (H<sub>2</sub>S) bearing hydrocarbon service. For sour services, the body material will comply with NACE MR0175



### Weldable split sleeves

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

Heat insulators, positioned parallel to the seals, protect the seals from heat during the welding of the clamps to the pipe.



### Certification and testing

Non-destructive testing (NDT):

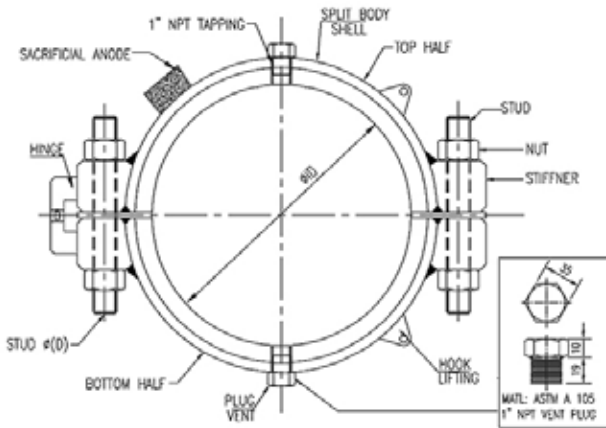
- 100% magnetic particle inspection (MPI) for stiffener-to-shell welds (fillet)
- 100% ultrasonic testing of vent plug welds
- 100% MPI of hinge welds

Hydrotest conducted according to ASME Section VIII Div.1, clause UG-99.



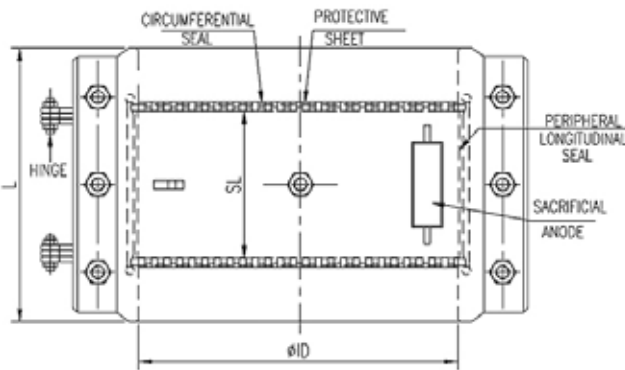
## General drawing and sizes

for an off shore split sleeve repair clamps



API Pipe Size	Sealing length	Total length ansi 400/600	Total length ansi 900
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

Clamps with longer lengths available on request.



### Standard Clamp Components

Body (shell)	A516 Gr. 70
Stud Bolts	A193 Gr. B7
Nuts	A194 Gr. 2H
Gaskets	NBR or Viton
Coating	(Marine) Epoxy

## Additional material specifications

- ANSI pressure classes: 300, 400, 600, 900, and 1500
- Design standards: ASME Sec. VIII, API 6H, ANSI B31.4, B31.8, and Split Sleeve Software (3S)
- Design control and stress analysis conducted using Finite Element Package
- Gaskets: High-quality NBR or VITON elastomer seals, precisely compatible with the line fluid and ambient temperature, will be installed into the Pipeline Leak Repair Clamps
  - NBR temperature range: -20°C to +80°C
  - HNBR temperature range: -20°C to +150°C
  - VITON temperature range: -20°C to +200°C
- Gaskets are replaceable without the need for special tools
- Girder rings can be installed upon client's request
- Double Row Sealing (DRS) design is also available. This special design is more suitable for applications where potential leakage is costly or dangerous, such as gaseous services and offshore applications



„Pipe Cold Cutting Machine DLW“

- Working Range up to: 1219,2 mm (48")
- Pipe wall thickness: max. 100 mm (4")



„Double chain clamp“

- Clamping ranges: 203 - 1.524 mm (8 - 60")

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