



Modular Leak Repair Enclosures

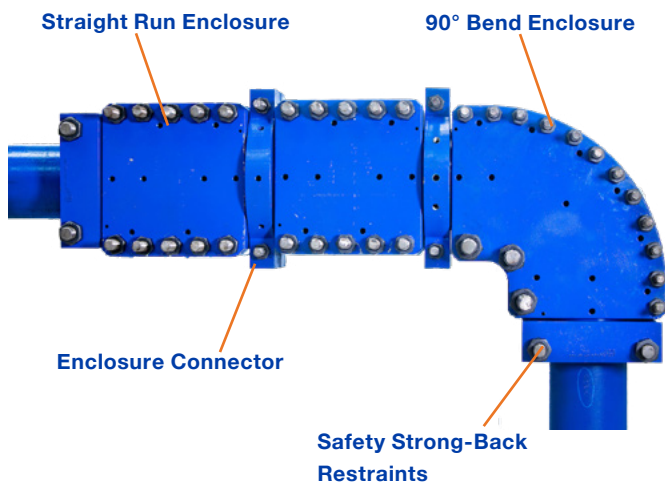
Modular Repairs

Responsiveness Redefined

TEAM's range of modular leak repair enclosures sets a new benchmark for standard pre-engineered leak repair solutions. These standard piping enclosures and friction grip safety devices utilize the latest CNC machining and code-compliant fabrication to ensure safe and effective repairs with industry leading responsiveness.

Reliable Availability and Cost – Your Partner of Choice

TEAM's modular leak repair enclosures standardize the repair approach in term of design and cost. With all sizes of enclosure held in inventory, TEAM is the world leader in emergency leak repair. Enclosures can be combined and extended in the field to effectively reinstate the integrity of damaged critical assets.



Why TEAM?

- + Single supplier, single point of contact worldwide
- + Company-wide commitment to safety
- + Trained and certified technicians
- + Complete range of maintenance and repair services
- + Engineering, manufacturing and technical support
- + World class quality processes and systems

Standard Specification

Design/Construction Standards:

- + Design code: ASME VIII Div. 1
- + Body – ASTM A516 Grade 70 Carbon Steel
- + Fasteners ASTM A193 B7 & A194 2H Nuts
- + Corrosion Allowance – 1/16 in
- + Perimeter Seal and/or Void Fill

Service Limitations:

- + Pressure – 350psi & 750psi (see rating table)
- + Temperature – minus 20°F to +750°F



Click on Image for Video

Design Features & Benefits

TEAM's range of standard repairs offer numerous advanced features improving the safety and quality of leak repair activities in the field.

Design & Construction Code & Standards

All TEAM standard modular repairs are designed and constructed using ASME VIII Division 1 rules.

All designs are stamped by a certified Professional Engineer (PE) ensuring compliance

A full catalog of design packages is available to allow blanket corporate/site approval, removing the need for individual design verification for each application

Friction Grip Safety Restraints – Reliability Assured

Using friction as a means of restraining piping has been a standard solution in industry for many years. Various factors influence the performance of these devices including pipe surface preparation, restraint bore surface profile and torque used in setting the restraints. In order to ensure optimum reliability TEAM has had all standard friction grip restraints independently tested and certified to provide a factor of safety of 1.5 at the maximum design pressure. Stress analysis has been conducted on the host piping to ensure structural stability under the applied gripping force

Stop-Gap Repair Clearance

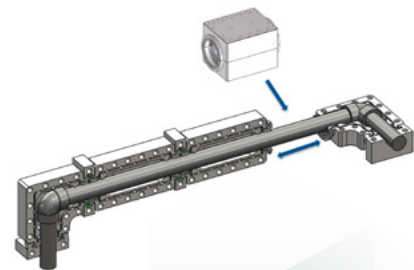
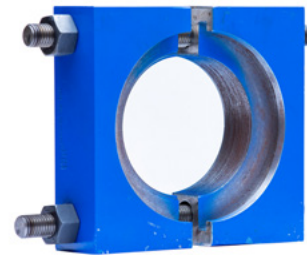
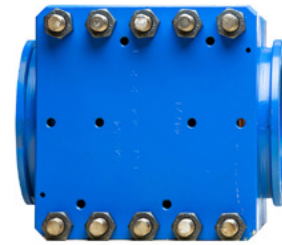
All TEAM standard modular repairs are designed to accommodate a stop-gap repair such as a mechanical patch or non-engineered composite repair. This allows leaks to be arrested immediately and reduces risk to the work party during installation

Continuous Sealing to Connect and Extend Enclosures

All TEAM standard modular repairs feature a patented continuous seal system that utilizes internal valves to connect injection grooves between mating enclosures. This system has a significant safety advantage over competing systems as no drilling into the pressure boundary is required

Minimizing Custom Repairs

At TEAM our goal is to minimize the need for custom engineered solutions. Pressure system components can be fabricated in a huge variety of configurations and customized design can be unavoidable. With TEAM's standard modular system our designers have the ability to supplement standard components with custom additions to minimize the scope of custom manufacture. Reducing cost and lead-time



Pressure & Temperature Ratings for Standard Repairs

The table below can be used to verify the enclosure is suitable for the application. Take the DESIGN temperature of the system and identify the next highest figure in the table. Designs are based around two pressure tiers, 350 psi & 750 psi from -20 to 650°F. Above 650°F the allowable design temperature reduces. If in doubt or if an application just falls outside the parameters, contact TEAM Engineering as the pressure limitations are stated as worst case across the product range.

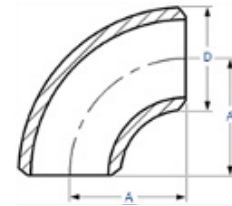
Temperature	Pressure Limit for STD Repairs (psi)	
	350psi	750psi
-20 to 100	350	750
200	350	750
300	350	750
400	350	750
500	350	750
600	350	750
650	350	750
700	340	690
750	285	560
800	Standard repairs not suitable	

**TEAM experts are available
24 hours a day, 7 days a
week, 365 days a year.**

Find your local contact at
TeamInc.com.

Identifying the nominal pipe size (NPS)

The table below can be used to identify the Nominal Pipe Size (NPS) of the line to be repaired. A bend can be identified as short or long radius based on by measuring the distance between the weld and the adjacent pipe centerline.



NPS	Sizes (in)		
	Pipe Dia. "D"	LR bend Rad "A"	SR Bend Rad "A"
1/2	0.840	0.75	0.5
3/4	1.050	1.125	0.75
1	1.315	1.5	1
1 1/2	1.9	2.25	1.5
2	2.375	3	2
3	3.5	4.5	N/A
4	4.5	6	N/A
6	6.625	9	N/A
8	8.625	12	N/A
10	10.75	15	N/A
12	12.75	18	N/A



