



**CLIMAX**  
PRESSURE TESTING TOOLS

# PIPE ISOLATION PLUGS



PERESENT

## INTRODUCTION:

Due to almost all of manufacturing standards, water (hydro) or air test are an obligation to verify that all the manufacturing sequences are done properly.

Our mission is to optimize hydro/airo test via developing new non-welded smart plugs. These plugs are not only used for pressure test during manufacturing process but also for plant owners during operation regarding to maintenance.



## OUR MAIN CUSTOMERS ARE AS FOLLOWS:

- Pressure part manufacturers
- Power plant owners and manufacturers
- Oil and gas pipeline
- Petro chemical owners and manufacturers
- Defence and military
- Pipe mills

The plug is designed in both manual and hydraulic style to seal the openings or nozzles during pressure test. Using mentioned method will eliminate welded blind caps. This will reduce manufacturing period and increase quality because of no heat input of welded caps.

Installation and disassembling take short time and plug needs limited maintenance and inspection during operation.



## PRODUCT PORTFOLIO:

- Hydro/Airo testing plugs

- Internal grip tight plugs
- External grip tight plugs
- Heat exchanger tube testing plug

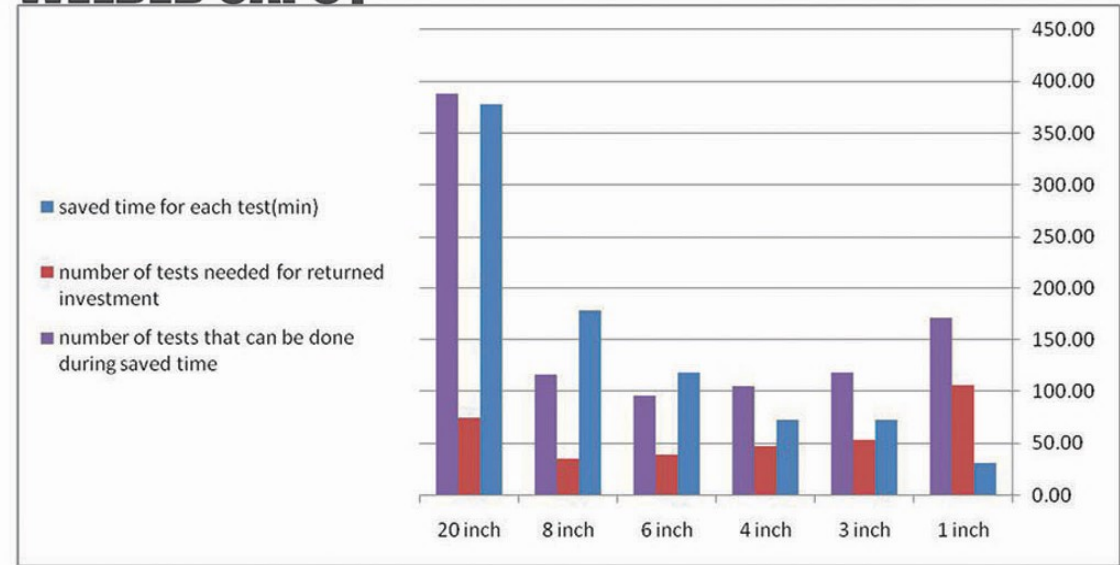
- Maintenance tools

- Quick flange coupling
- Leak sealing coupling
- Dual seal plug



## WHY USING SMART PLUGS INSTEAD OF WELDED CAPS?

- If nozzle or opening quantity with the same size is high.
- If standard codes restrict manufacturer for using welded caps because of welding heat input and metallurgical consideration of base material.
- Whenever maintenance or manufacturing time is tight.



## FEASIBILITY STUDY OF INVESTMENT:

The following table shows the comparison of investment on each plug with welded caps usage. In other words, how many bores should be tested with blind caps that balanced with investment on plug for related bore. It makes a sense achievement of buying tools which directly depends on nozzle quantity.

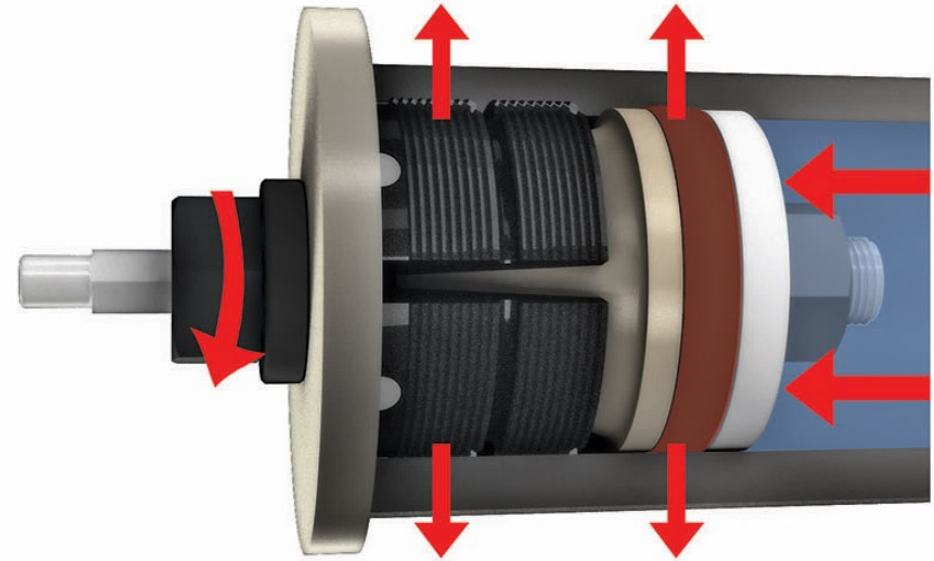


## APPLICATION

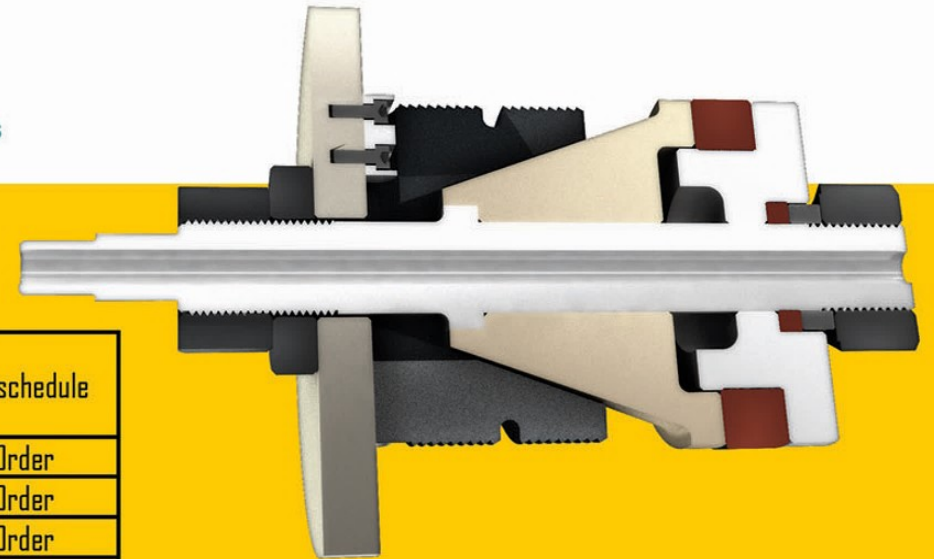
- Civil and building gas/ water transmission lines
- Plastic and polymer tubes
- Heat exchanger tube hydro-test

## ADVANTAGES

- Light weight tool
- Durable at corrosive conditions
- Easy installation and low torque
- One gripping section for different schedules
- Eliminate welded blind caps
- Significant decrease of required costs and time for hydro-test process



2 0 1 5



| Tube/pipe outside D: INCH | Pipe/tube schedule | Pipe/tube schedule | Pipe/tube schedule |
|---------------------------|--------------------|--------------------|--------------------|
| 1/2                       | All schedule       | HY-T-C 1/2 INCH    | Due to Order       |
| UP To                     | All schedule       | -----              | Due to Order       |
| 20                        | All schedule       | HY-T-C 20 INCH     | Due to Order       |

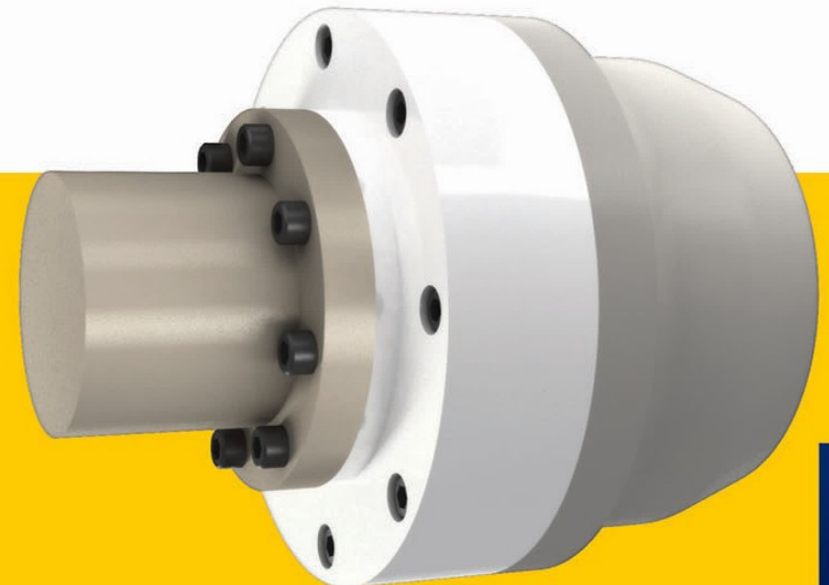
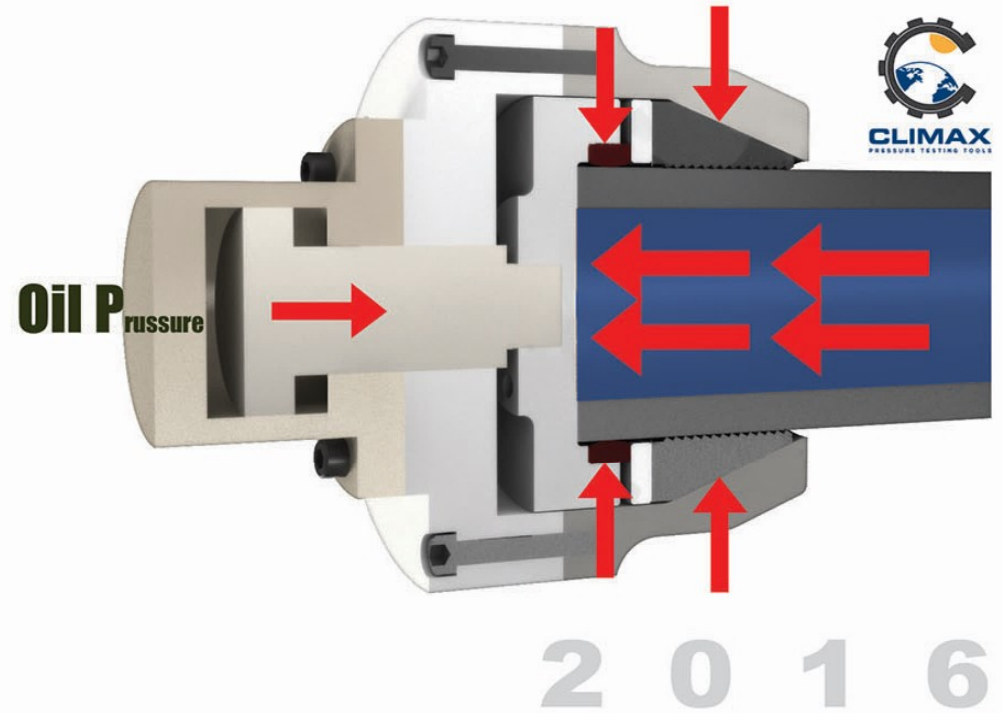
This table is considered for Interior grip hydrotest tool

# APPLICATION

- Civil and building gas/ water transmission lines
- Plastic and polymer tubes
- Heat exchanger tube hydro-test

# ADVANTAGES

- Light weight tool
- Durable at corrosive conditions
- Easy installation
- One gripping section for different schedules
- Eliminate welded blind caps
- Significant decrease of required costs and time for hydro-test process
- Hydraulically activate



**5**

| Tube/pipe outside D: INCH | Pipe/tube schedule | Pipe/tube schedule | Pipe/tube schedule |
|---------------------------|--------------------|--------------------|--------------------|
| 1/2                       | All schedule       | HY-T-C 1/2 INCH    | Due to Order       |
| UP To                     | All schedule       | -----              | Due to Order       |
| 20                        | All schedule       | HY-T-C 20 INCH     | Due to Order       |

This table is considered for Exterior grip hydrotest tool



## VISION AND POTENTIALS:

Because we are a developing company, the following items make us different:

- knowledge based
- small company but flexible with fast respond
- tailored made designs with respect to customer demands
- much lower price with the same quality of others

# WE ARE DIFFERENT

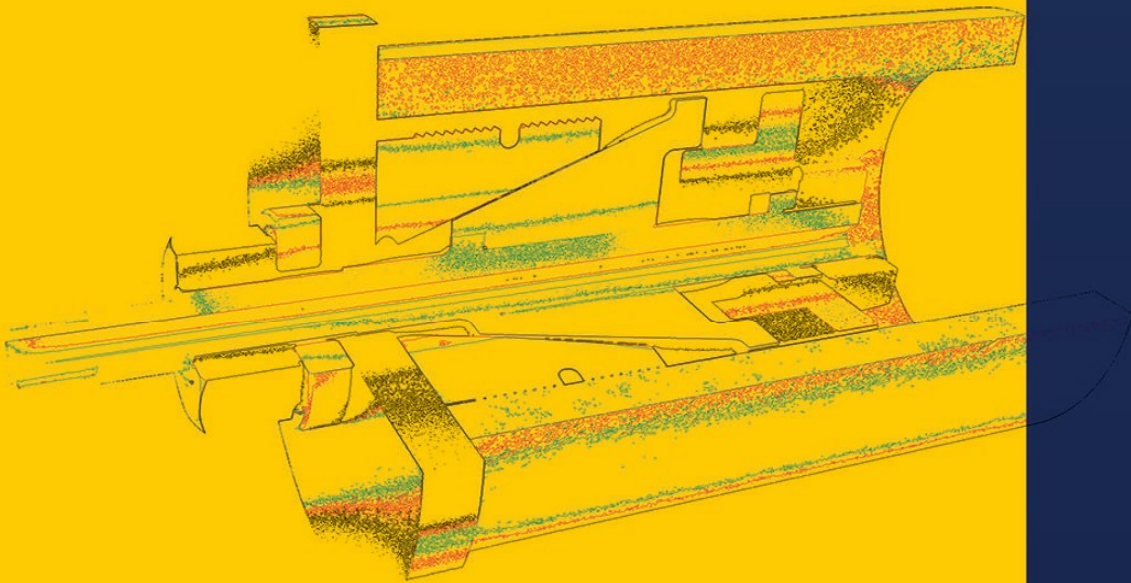


All companies in this field are most welcome for cooperation, agency, dealing, know-how tech transfer and partnership.





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WE ARE DIFFRENT...

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