



Insulation of process equipment including pipes, valves and flanges is essential in most Oil&Gas production or process plant. Maintaining the process temperatures, reducing the noise levels or protecting the piping system against fire exposure are key factors in Oil&Gas process equipment.

Benarx Steel Box is a lightweight product made to maintain the integrity on the system. The versatile solution can be designed to accommodate various insulation materials for both thermal, fire and acoustic demands to the system. The Benarx Steel Box is extensively tested over many years and have a proven track record in the toughest environments

Benarx Steel Box

Jet fire tested and certified for up to 50 minutes

Hydrocarbon fire tested and certified for up to 41 Minutes

Prefabricated design eliminates application on site and reduces HSE risk

High performance product thoroughly tested for explosion loads and noise reduction.

Product overview

Design

Benarx Steel Box is a high quality and versatile product for insulation of piping equipment. Thin SS316 steel plates covering wrapped insulation creates a lightweight construction. The Benarx Steel Box can be custom designed to accommodate any geometry and potential clashed around piping, valves and flanges.

The solution is delivered with adjustable eccentric locks for easy mounting and demounting.

Inspection and maintenance

The Steel box are lined with preformed insulating material which is mechanically secured to the box to maintain the integrity of the insulation during inspection and maintenance.

The design allows for a fast and easy installation, and disassembly where inspection and maintenance are required.

HSE

Benarx Steel box is an effective way of reducing the noise emitted from valves and flanges on a pipeline. High noise levels generated by flow in piping and valves may be a risk to the HSE environment.



Benarx product performance and properties

Property	Method	Value
Maintain stability and integrity of equipment in a jet fire caused by high pressure natural gas	OTI 95 634 - 250 kW/m ²	50 minutes
Safeguard stability and integrity of equipment at hydrocarbon fire	IMO Res:A 754(18) - 250 kW/m ²	41 minutes
Ability to withstand heavy explosion loads	Gas explosion test	1,3 bar
Sound reducing properties	ISO 15665 NORSOK R-004	Class A/B/C Class 6/7/8
Thermal insulation properties	NORSOK R-004	Class 1/2/4/9