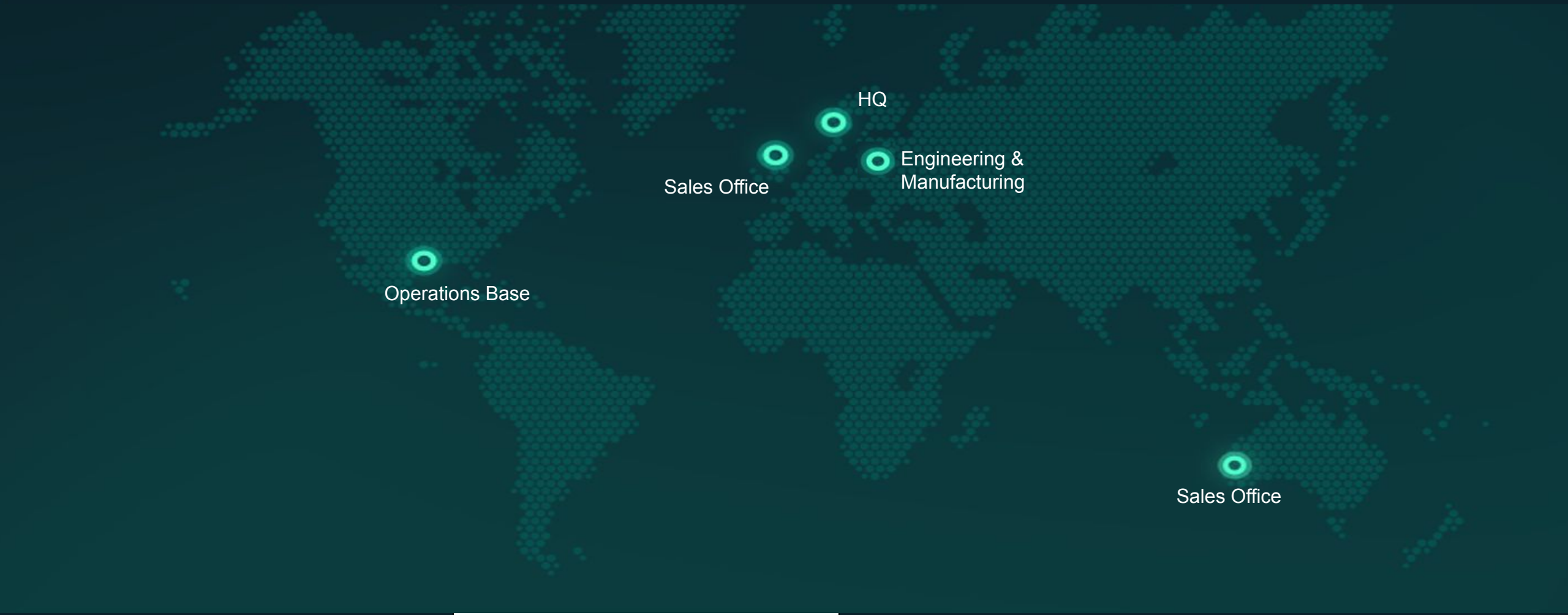
izomax

Introducing the

AOGV

Patented Mechanical Isolation System

Izomax



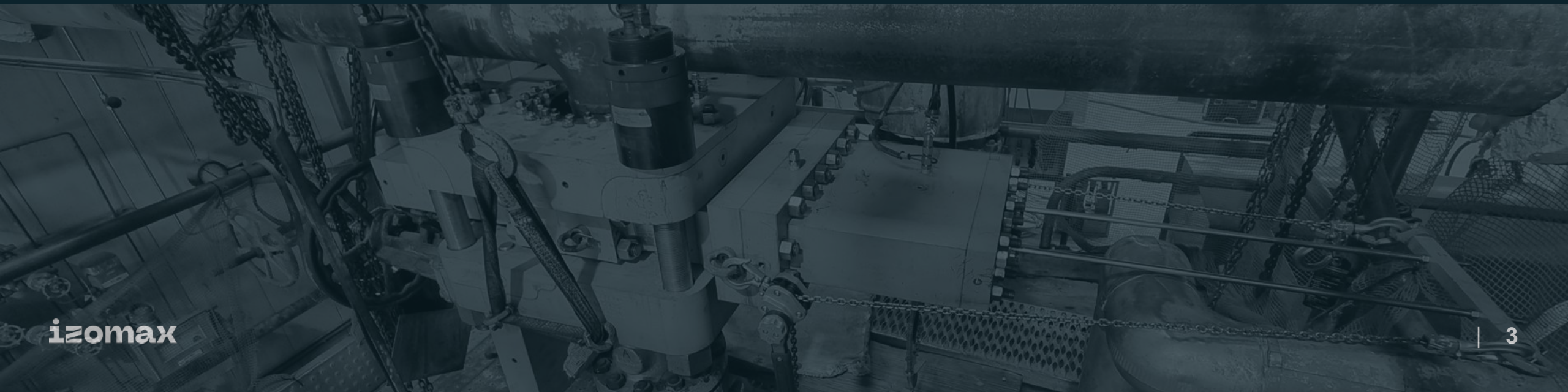
Employees:
Norway, US, UK, Poland & Australia

51

160	24+	50+	4	0
Projects	Customers	Tool Sizes / Classes	Continents	HSE&Q Incidents

The value of Izomax AOGV isolation technology

- Isolate plant segments for maintenance / repair
- Installs barrier / blind / skillet while pressurized
- Positive isolation
- No requirement for “hot work”
- Reduction in TAR / Maintenance schedule by minimizing Isolation impact
- Reduction in time spent on drainage, venting, purging and flushing
- No permanent modifications to plant / piping
- Execute work outside of a turnaround, increasing asset uptime
- Significant reduction in VOC emissions
- Allow process flow and cashflow, to continue

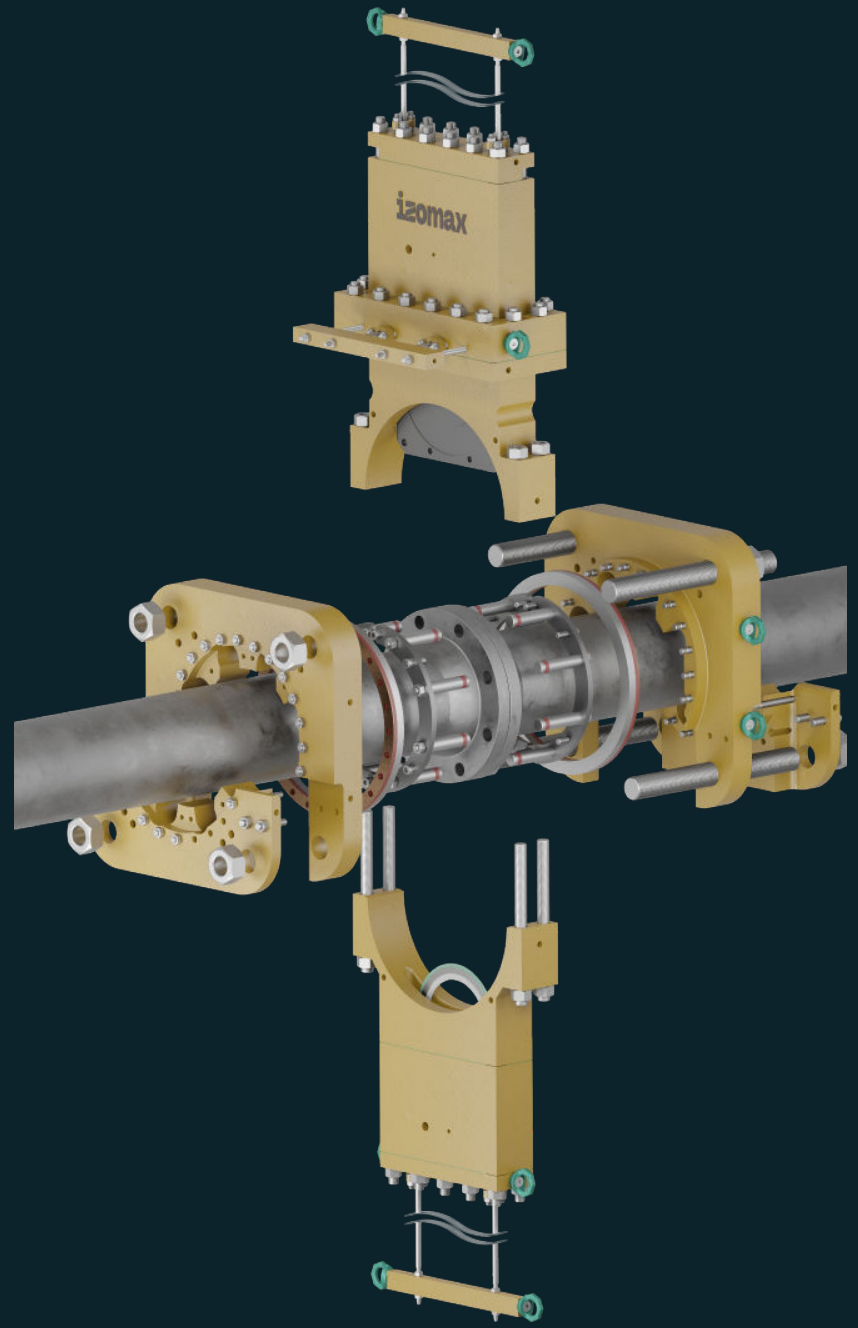


How does it work

The AOGV is a “Temporary Gate Valve” that is assembled in sections over any live flange pair

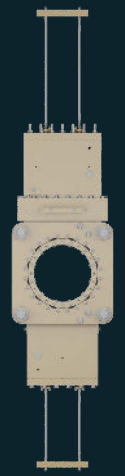
Full documentation (including detailed animations) of the AOGV can be found on www.izomax.com

https://www.izomax.com/videos

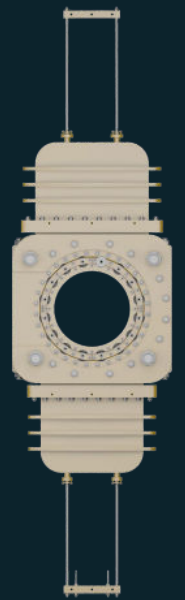


1” Class 150

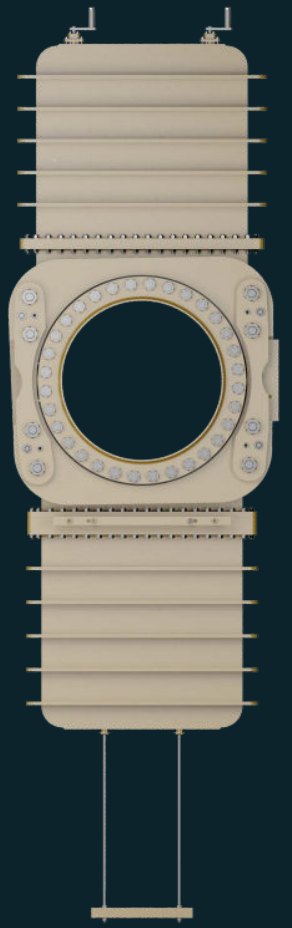
4” Class 150



10” Class 150



16” Class 150



36” Class 150

T ECHN I C AL DATA					
Dimensions	919mm x 190mm x 260mm [36.2in x 7.5in x 10.2in]	1570mm x 350mm x 500mm [61.8in x 13.8in x 19.7in]	2680mm x 590mm x 500mm [105.5in x 23.2in x 19.7in]	3355mm x 900mm x 600mm [132.1in x 35.4in x 23.6in]	5560mm x 1490mm x 1200mm [218.9in x 58.7in x 47.2in]
Weight	43 kg / 95 lbs	164 kg / 410 lbs	1035 kg / 2285 lbs	1400 kg / 3086 lbs	4500 kg / 9925 lbs
Flange Class	ASME B16.5 Class 150	ASME B16.5 Class 150	ASME B16.5 Class 150	ASME B16.5 Class 150	ASME B16.5 Class 150
Design Code	PED 2014/68/EU - EN 13445	PED 2014/68/EU - EN 13445	PED 2014/68/EU - EN 13445	PED 2014/68/EU - EN 13445	PED 2014/68/EU - EN 13445
Design Pressure	14 bar / 203 psi	20 bar / 290 psi	20 bar / 290 psi	20 bar / 290 psi	3 bar / 44 psi
Design Temperature	-50°C to +100°C / -58°F to +212°F	-29°C to +50°C / -20°F to +122°F	-29°C to +50°C / -20°F to +122°F	-29°C to +50°C / -20°F to +122°F	-130°C to +50°C/ -202°F to +122°F
Body Material	1.4462	P355	P355/P460	1.4462/P355	1.4401
Gasket	SPW ASME B16.20 or Sheet Gaskets	SPW ASME B16.20 or Sheet Gaskets	SPW ASME 16.20 or Sheet Gaskets	SPW ASME 16.20 or Sheet Gaskets	SPW ASME 16.20 or Sheet Gaskets

Track record

We continue to extend our geographical reach and increase the numbers of Projects and Customers

The AOGV tool has been deployed on FPSO's, Semi-submersibles, Platforms, LNG Terminals & Refineries across upstream, downstream, and integrated gas assets

Description on many of our projects & case histories can be found on www.izomax.com

160+
Projects

24+
Customers

50+
Tool size / Class combinations

+200
°C
Temperature

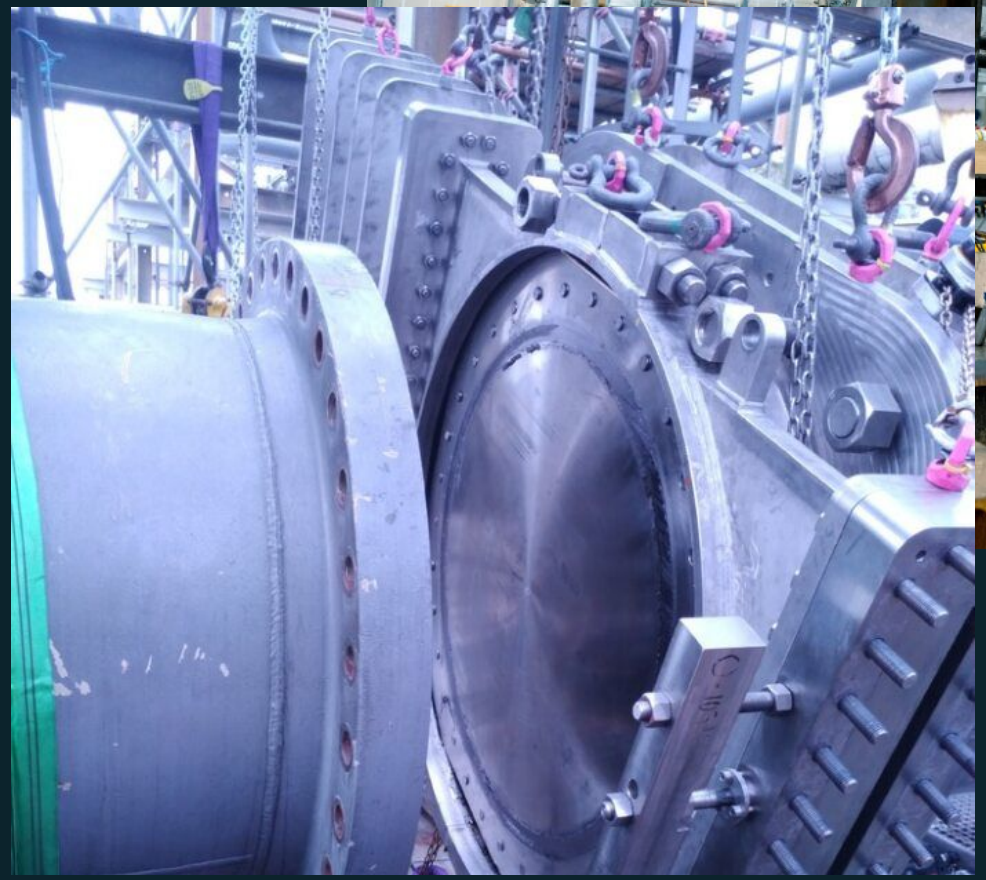
220+
BAR pressure

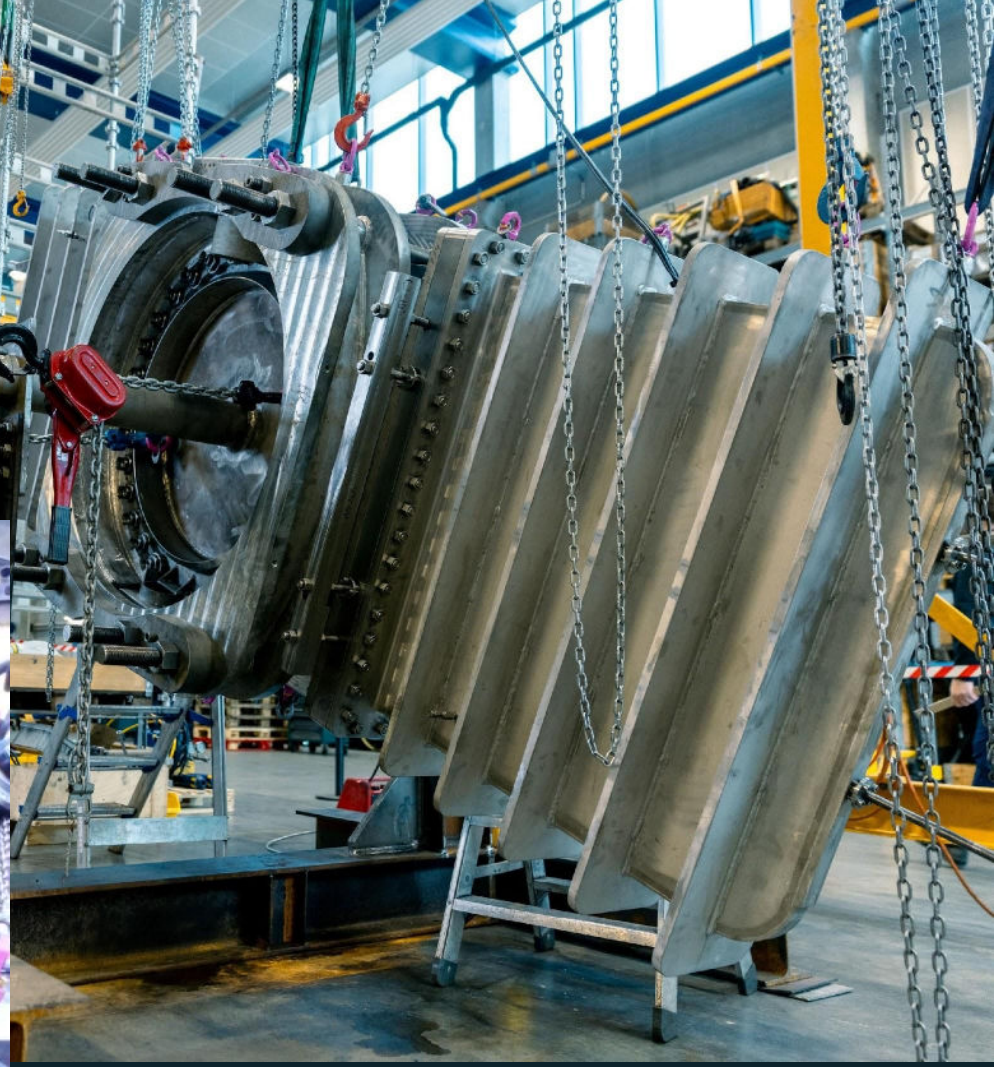
0
HSE Incidents

A 36” butterfly valve on the flare line of a major onshore LNG.

The AOGV prevented a full shutdown with loss of LNG production for one month

LNG





izomax

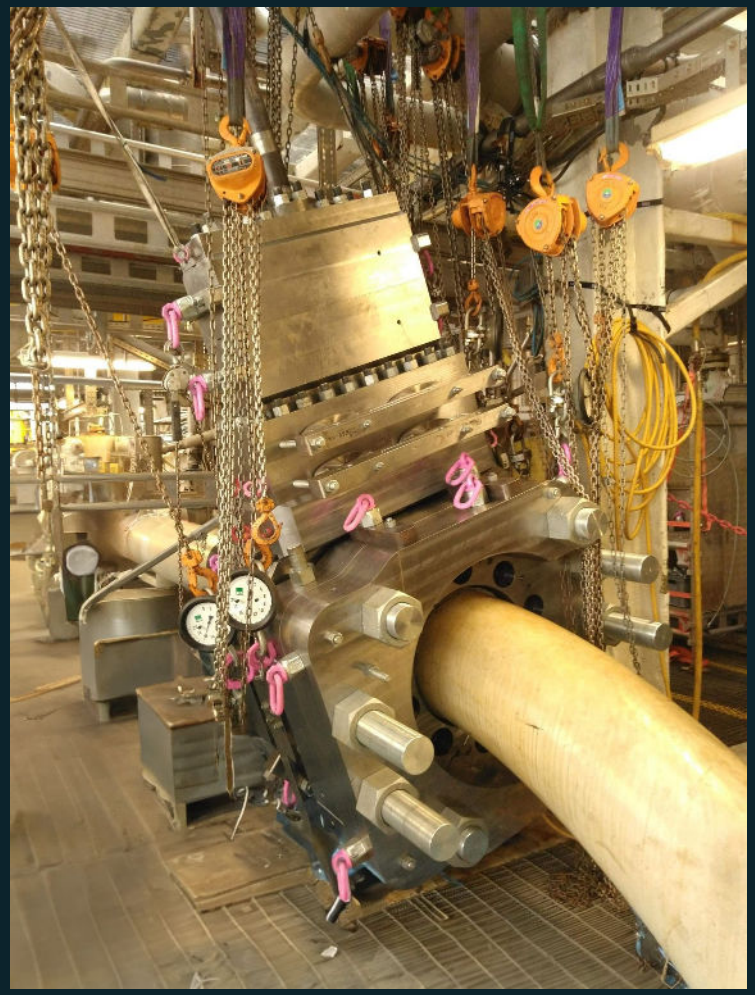
Positive blind installation allowing vessel entry and clean out of separator on an offshore process facility.

Vessel isolation

Izomax successfully installed a blind spade on the gas export pipeline of an offshore facility, which act as a positive isolation during a scheduled TAR.

After the turnaround, the spade was retracted, a new gasket installed, and system fully restored to its original state.

Safe Barrier



Valve replacement

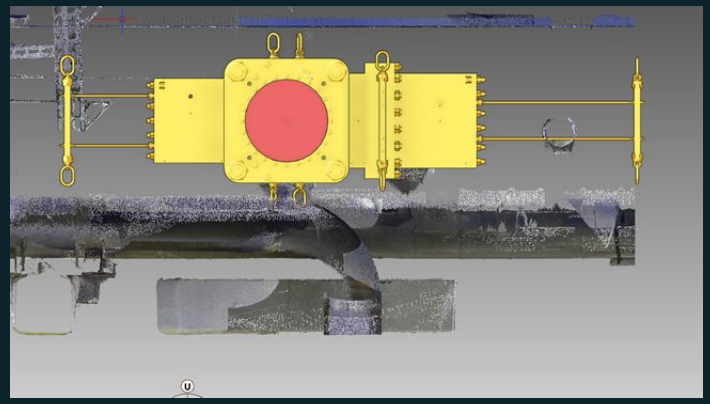
The AOGV performed three isolations on the water-cooling system to facilitate modification the piping.

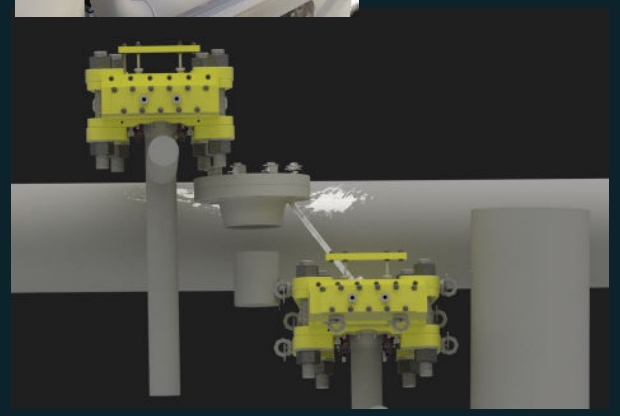
The work was completed ahead of schedule and kept the facility running during the modification

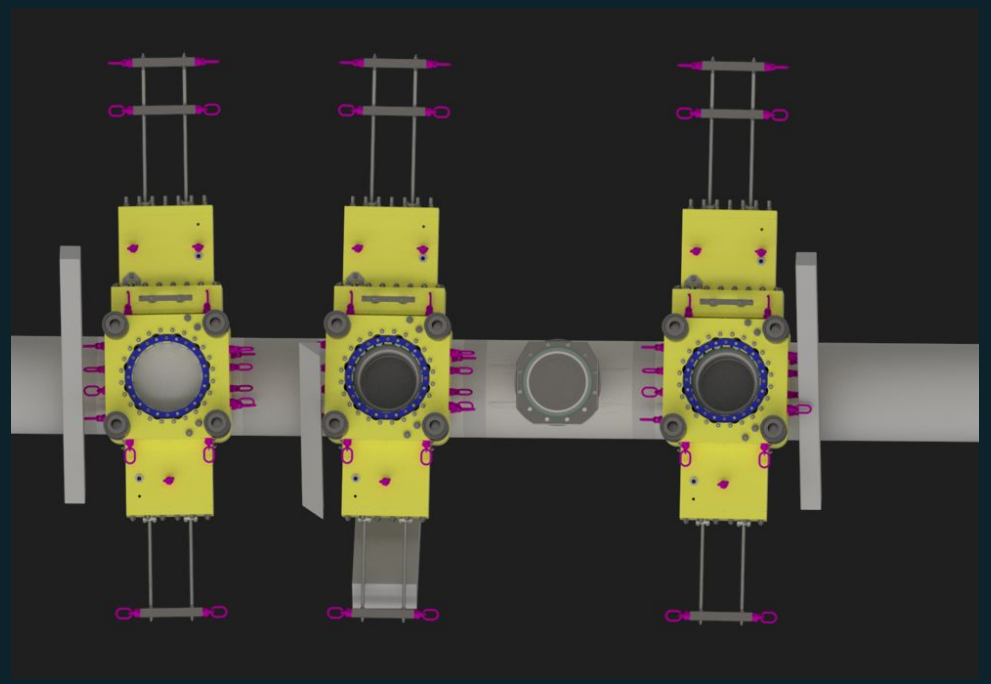
Tie-in of a new gas reservoir discovery in the North Sea. The AOGV is used to avoid shutdown of current production.

AOGV will facilitate 22 tie-ins for a new subsea tie-back to the existing offshore production facility

Offshore Tie-in of new oil field







Refinery Valve replacement

The AOGV facilitated valve replacement for the steam feed water pumps on a US refinery

Valves was replaced for all 3 pumps ensuring that maintenance on the pumps could be done without shutting down refinery production

The AOGV facillitated modification of piping on a Hot-Oil system on a offshore production facililty.

The AOGV enabled the work to be done without shutting down the production and draining the system

Hot-oil tie-in

izomax

Izomax AOGV customers include:

Customer quotes:

TAR Lead, Deepwater Area

- *AOGV opens up exciting possibilities for how we can decouple maintenance and TAR work from full plant shut downs*

Mechanical Engineer Lead

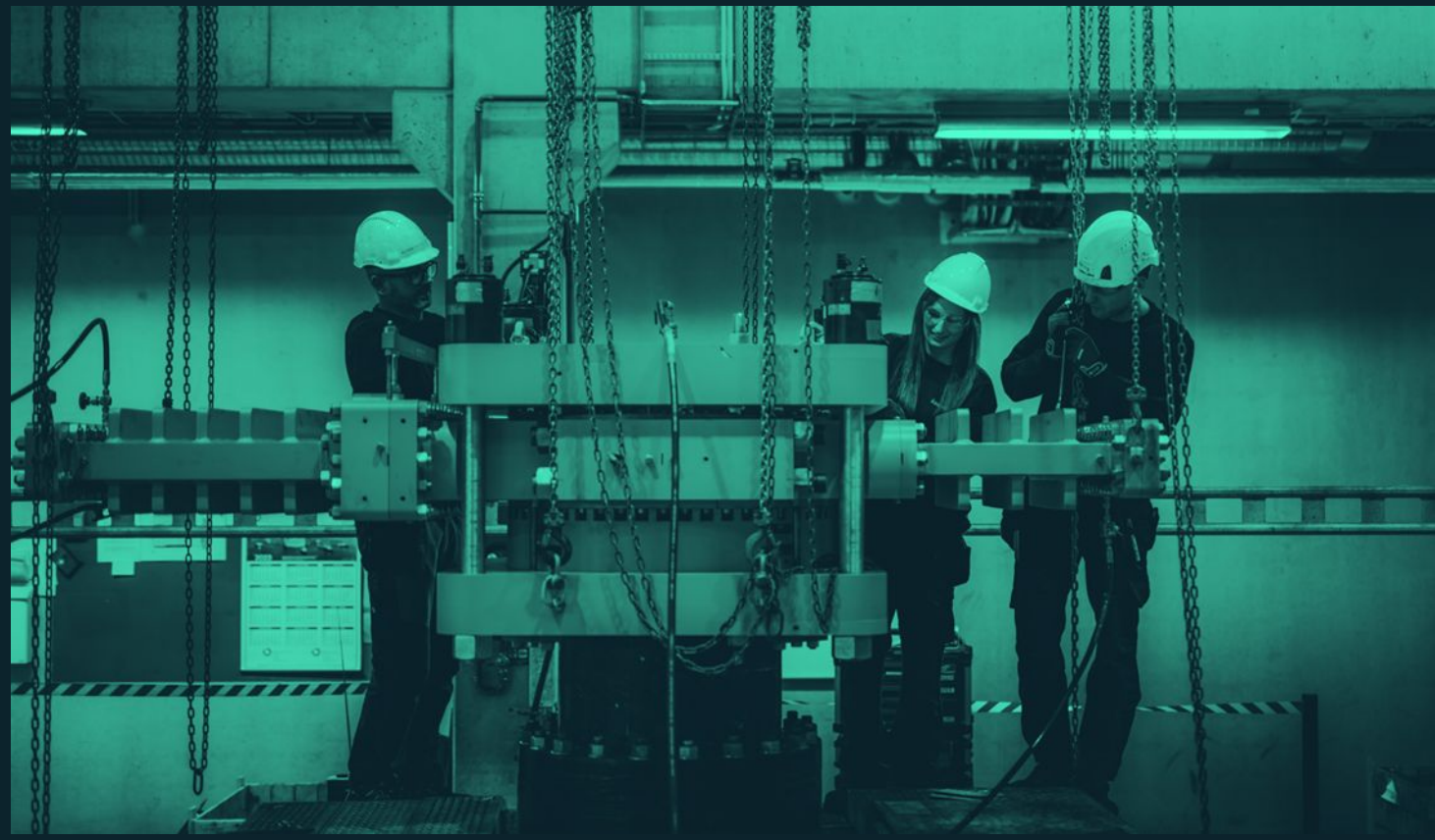
- *Amazing to have the ability to provide positive isolation without the requirement for hot-work and no remaining remnants or modifications to the piping system*

Mechanical-Static Technical Authority

- *It has been a great pleasure to work with the clever and professional Izomax Team throughout this critical job. I will be looking forward to working with all of you in many future jobs!*

Offshore Installation Manager, Major LNG Facility

- *Thanks for the excellent support you provided to us, please pass my regards also to your teammates. All the best!*



Thank you

Q & A

izomax.com

Follow us on LinkedIn