

Masterclass “Voorspellen levensduur van regelkleppen”

Interreg 
Vlaanderen-Nederland
Europees Fonds voor Regionale Ontwikkeling

Interreg project
Circulair Onderhoud
22 november 2022

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EQUANS, WORLD LEADER IN MULTITECHNICAL SERVICES



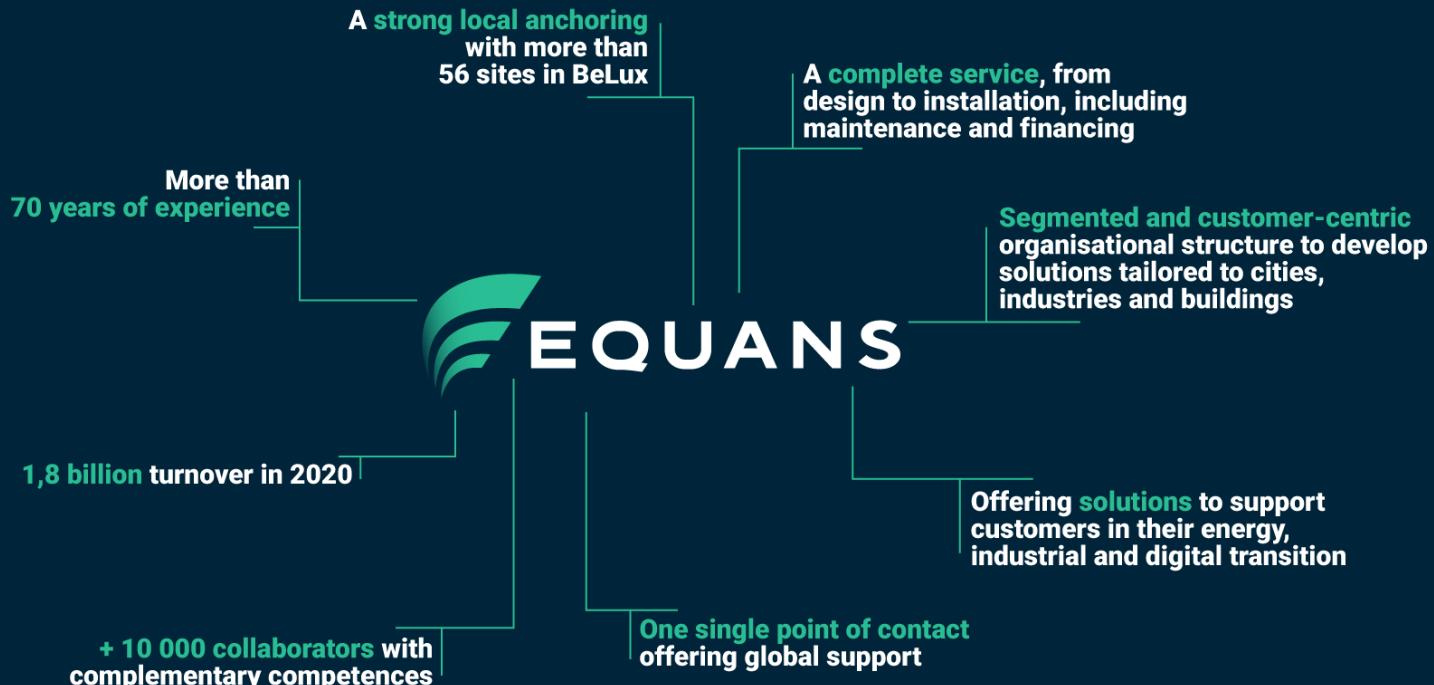
OUR PRESENCE



We are leaders
in our fields
with 74,000
experts over
more than 17
countries



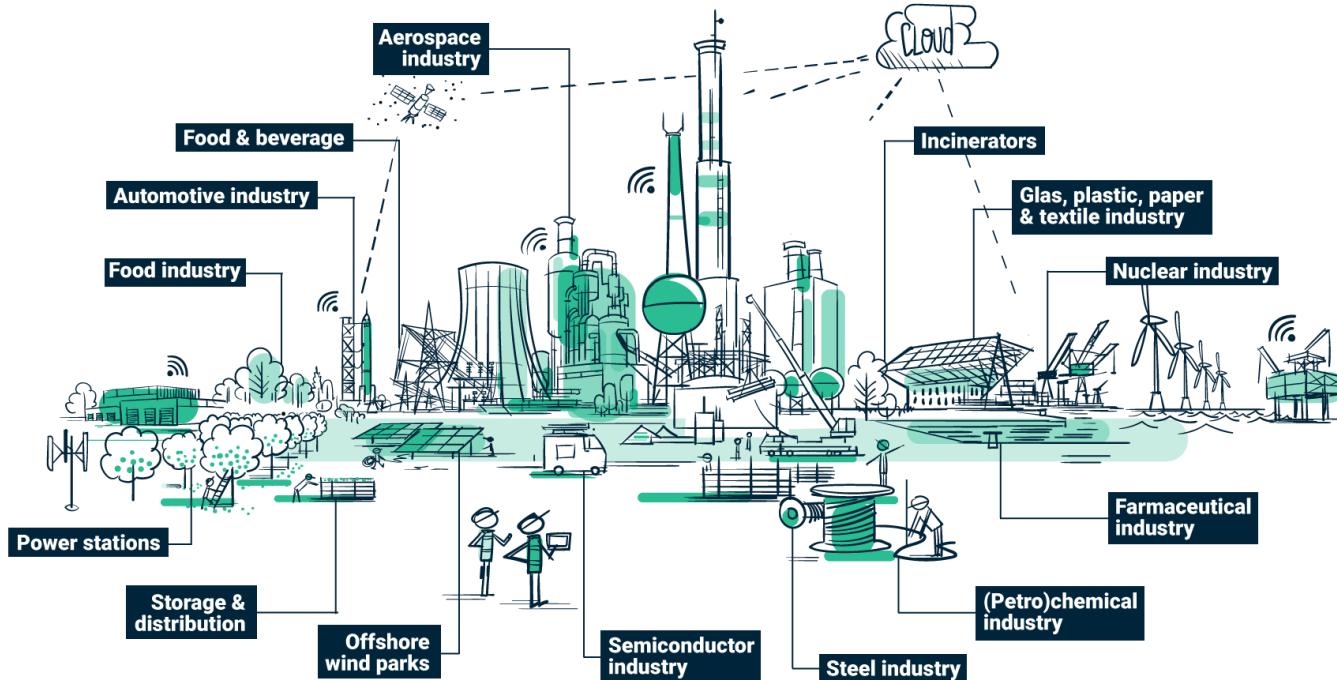
EQUANS BELUX IN A NUTSHELL



OUR SECTORS



Greener and more efficient industries



OUR EXPERTISES AND SOLUTIONS



Electrical, mechanical & electromechanical installations



Instrumentation, automation & process control



Mechanics & industrial pipelines



Industrial, mechanical & electromechanical maintenance



Information & communication systems



Climate control techniques (HVAC)



Commercial & industrial cooling systems



Security & fire protection



Local green energy production



Nuclear services



Energy efficiency projects



Energy performance



Digitalisation of interfaces and objects



Multi-technical & multi-site operations and maintenance



Advice, engineering, financing, building, operations and maintenance

3

Division Products, Shops & Related Services



Organisation



Products, Shops & Related Services



Frequency Grade <5



- ISO 9001
- VCA-P / OHSAS 18001
- ISO 14001
- 10 CFR 50 App. B
- Schneider Okken & Prisma Licenses
- Baker Hughes Service Center
- Emerson Fischer Service Centre
- ISO 18001
- 9COM for Induction Bending & Prefab



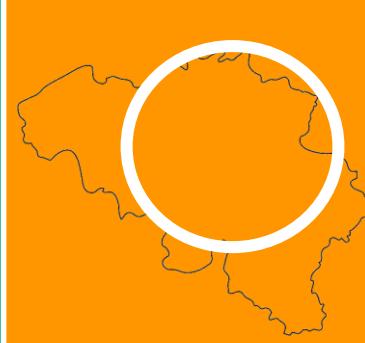
We invest heavily
in staff training and
in competence
management



500
dedicated employees



700 000
man-hours / year
Flexible Service

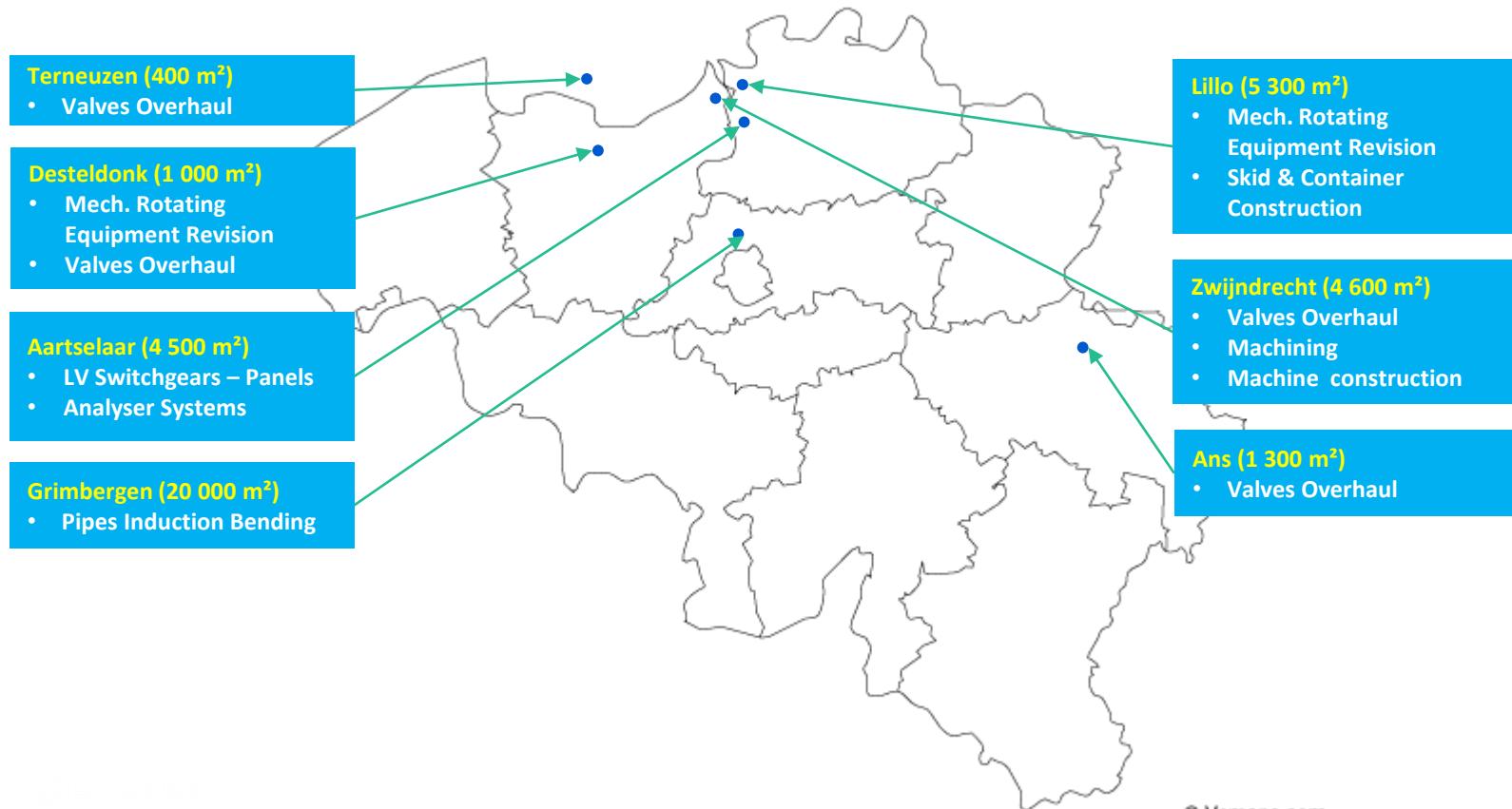


+ 35 000 m²
workshops in
Brussels, Antwerp,
Ghent & Liège areas

Customers



+ 35 000 m² workshops



Valves Overhaul

- Valve overhaul, repair and adaptations
 - control valves
 - block valves, shut-off valves
 - safety valves and level gauges
- Repair on-site of welded valves in line and/or removal and installation of such valves
- Work preparation and shutdown management
- Warehouse management for spare parts
- High availability of parts through intensive collaboration with the most important valve manufacturers and service providers in the sector
- Brand Certifications: Masoneilan, Consolidated, Nuovo Pignone, Emerson – Fisher, Leser, PROTEGO



Valves Overhaul

Test facilities, some of which are mobile

- Water up to 700 bar
- Air from 800 mbar vacuum up to 300 bar
- Helium
- Other media on request (for example petrol or cryogenic)

Applied test procedures:

- API 527/API 598/ANSI B70.2.98
- Or in accordance with your specifications

Testing

- 'Dye penetrant'-testen
- Magnetic testing
- Positive Material Identification
- Acoustic Emission Leak Detection
- PreVenTesting (calibration) of safety valves during production
- Functional tests



Valves Overhaul



Work shops covering Belgium

- Ans
- Desteldonk
- Terneuzen
- Zwijndrecht



Work shops @customer site:

- DOW/ Total Energies / Inovyn
- Mobile work shop + truck with testing facility

- QA/QC certifications: Lloyd's Register, acceptance of safety valves – Ministerial Decree variance V.4.064 of 25/05/1992, 10 CFR 50 Appendix B, VCA-Petroleum, ISO 9001, ISO 14001



BHGE Valves Distribution

Control Valves

- Our control valves have numerous advantages including:
 - Designed for longer operating life
 - Improved safety and minimized downtime
 - Ensured compliance and extended life of equipment
 - Reduced maintenance costs and environmental risks
 - Greater precision and control



Safety Valves

- High-quality and dependable for safer operating conditions
- A wide range of styles, models, options, and configurations for a variety of applications
- ASME Section I compliance
- Lower operational costs with less downtime
- Comprehensive service with a fast response





Project levensuurverlenging regelkleppen

Project levensuurverlenging regelkleppen



Waarvoor een regelklep

- **Regelen druk**
- **Regelen debiet**
- **Regelen temperatuur**
- **Regelen mengverhoudingen**
- ...

- **Kortom alles wat er in een proces geregeld moet worden**

Wat kan de levensduur beïnvloeden

- **Proces condities**
- **Ontwerp klep**
- **Materiaal gebruik**
- **Omgeving**
- **Interval revisie**
- **Kwaliteit revisie**
- ...

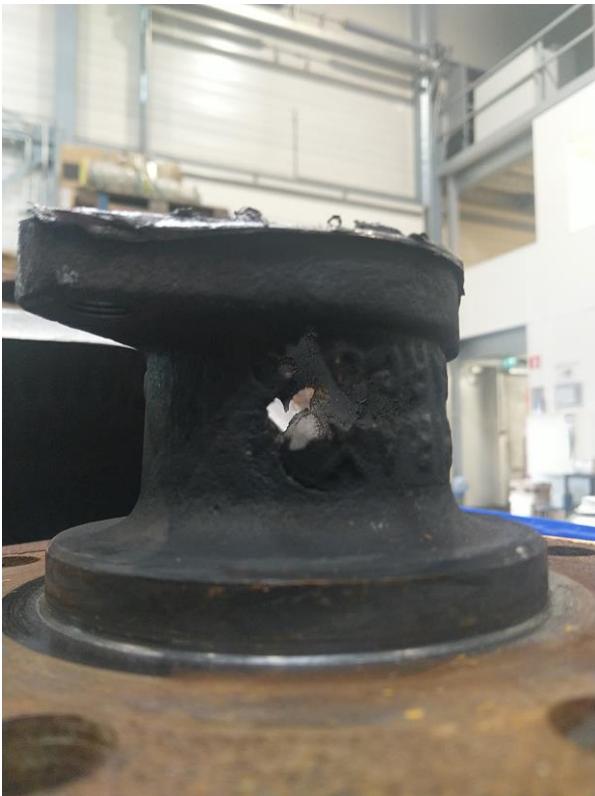
Waarom een revisie

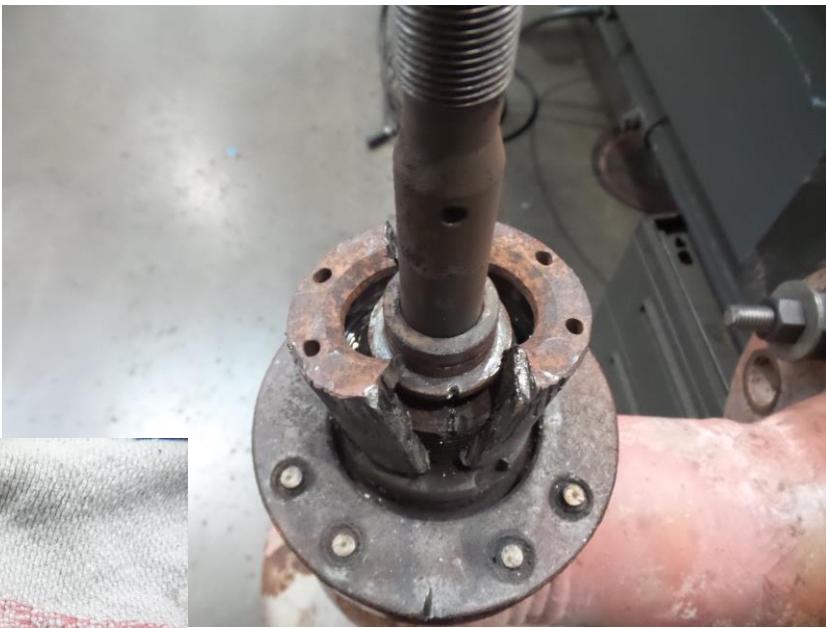


Definitie: Herstellen van de apparatuur naar de oorspronkelijk staat

- **Algemene controle werking appendage**
- **Levensduur verlengen appendage**
- **Productie verliezen minimaliseren**
- **Herstellen regelkarakteristiek**
- **Operationele zekerheid**
- **Milieu**
- ...

Maar wat zien we in de praktijk













De winst van een tijdige revisie

- **Productie winst (minder verliezen)**
- **Herstellingskosten lager**
- **Verlenging levensduur productie materiaal**
- **Geen milieu schade**
- **Bedieningskosten lager (bv een juist werkende actuator)**
- ...

Bedankt!

