

MAINTENANCE & INSPECTION PLANS



Preventive Maintenance –
Minimizing Downtime Costs

Hartmann Valves GmbH
www.hartmann-valves.com

DEAR CUSTOMER,

Hartmann Valves has been manufacturing wellheads, ball valves and associated components to the highest standards for over seven decades. Our products are made to withstand harsh environments and designed to last. We are fully committed to quality and safety. Since the wellhead is such an important part of the well barrier, we recommend performing periodic inspections to make sure the wellhead components are in an adequate condition. Not only time is working against us also various challenges in a production life of a well are influencing the wellhead condition. Obviously a leaking seal, flange connection or valve would have a dramatic impact on the integrity and could become a major safety hazard. Events like this need to be avoided and regular documented checks are minimizing the risk.

Therefore, we have worked out two types of maintenances; the basic inspection with a standard scope and secondly a premium inspection with a more comprehensive check list. The basic inspection in this example includes the visual inspection for corrosion and leakages, hydraulic oil and nitrogen tests of seals as well as the potential re-activation and re-testing of those. The premium inspection is additionally checking bolted connections, testing the valves and actuators / gear boxes. The details of this approach are also summarized in the list shown on the following pages. The marked boxes indicate which steps are included in the respective type of inspection. Please note our inspections are also available for third-party equipment providing that supporting documentation is available.

Based on our experience and the feedback from our clients we recommend performing the basic inspection once a year in turns with the premium check which is recommended every two years. This is just a generic recommendation. We are happy to work out a specific maintenance and inspection plan tailor-made for your equipment and requirements.

Please do not hesitate to contact us!

Kind regards,

Hartmann Valves Service Team



Timo Hein, Head of Service



Marianne Krüger, Service Coordinator



Michael Spohr, Repair Coordinator



KEY ADVANTAGES

- ✓ **TAILOR-MADE INSPECTION PLAN**
- ✓ **24/7 SUPPORT**
- ✓ **SAFETY**
- ✓ **ENGINEERED SOLUTIONS**
- ✓ **PREVENTIVE ACTION**
- ✓ **CONSULTING SERVICE**
- ✓ **INTEGRITY MANAGEMENT**
- ✓ **DOCUMENTATION & MONITORING**
- ✓ **CRITICALITY IDENTIFICATION**
- ✓ **MINIMIZING THE DOWNTIME RISK**

INSPECTION PLAN TYPES

SCOPE	BASIC	PREMIUM
1. Wellhead Components (e.g. Casing Head Housing, Hanger Spool)		
Visual inspection for corrosion and leakages	●	●
Mechanical function test of side-outlet valves	●	●
Hydraulic or gas test of the seals, if necessary re-activate	●	●
In case of re-activation, re-test seals	●	●
Visual inspection of pressure gauge and needle valve	●	●
Inspection of landing bolts / tie-down screws for leakages with leak-detection spray		●
Re-tighten if required		●
Re-inspect landing bolts / tie-down screws for leakages		●
Check and re-tighten bolts of slip-lock flange		●
2. Christmas Tree Valves (e.g. Master Valve, Wing Valve)		
Visual inspection for corrosion and leakages	●	●
If applicable: hydraulic or gas test of the seals, if necessary re-activate	●	●
In case of re-activation, re-test seals	●	●
Mechanical function test of valves	●	●
Function test of gear box / actuator		●
Tightness test of valve with well pressure and medium (bleed function of drain ports)		●
3. Christmas Tree components (e.g. Pack-Off Adapter, Cross, Tree Cap)		
Visual inspection of corrosion and leakages	●	●
If applicable: hydraulic or gas test of the seals, if necessary re-activate	●	●
In case of re-activation, re-test seals	●	●

The detailed scope can be adjusted based on your requirements.



LET'S FACE IT
WHAT IS
845€* PER YEAR
FOR THE ANNUAL PREVENTIVE
INSPECTION OF YOUR WELLHEAD
VERSUS
DOWNTIME COSTS?



* Please contact the Hartmann service team for further information.

SERVICE AND MAINTENANCE

24 HOURS 7 DAYS A WEEK



WE SUPPORT

with well completions and shut-off-valves, repairs, maintenance, work and technical advice.

WE TEST

leak tightness pressured with both liquid and gaseous media according to API, DGRL (PED), DIN- as well as other standards.

WE REPAIR

both our own and third party products.

WE WELD

with the latest technology as certified welding facility.

WE RENT

tools and service equipment (e.g. nitrogen test unit, lubricator, compressed air casing cutter) along with our qualified service personnel and also wellhead components like debrining wellheads.

WE DELIVER

quality and safety. Our company is API, ISO 9001 and SCC certified.

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QUALITY MADE IN GERMANY

Safe. Reliable. Long-lasting.



INDIVIDUAL DESIGN

Our sales and design engineers eagerly await your enquiries from the high performance sector. In close collaboration we develop suitable components for your special applications.



SOLUTIONS FOR EXTREME AREAS

Hartmann ball valves and wellheads are designed for pressure classes up to 690 bar, temperatures from -200 to +550°C as well as for high cycle operations and media of all types.



QUALITY THAT PAYS

Durable and low maintenance products reduce the life cycle costs of your plants. This is why we develop, assemble and test exclusively in Germany.



EXPERTISE & CONSULTATION FROM A SINGLE SOURCE

You profit from more than 70 years experience during all project phases. We provide you with support, from consulting, development right through to installation and maintenance service.

HARTMANN VALVES & WELLHEADS

The family-owned Hartmann Valves GmbH is one of the leading manufacturers of special ball valves, scraper valves and wellheads. Our high performance components are installed all over the world - in the crude oil, natural gas, (petro)chemical industry as well as in power plant technology, geothermal and other renewables such as power to gas.

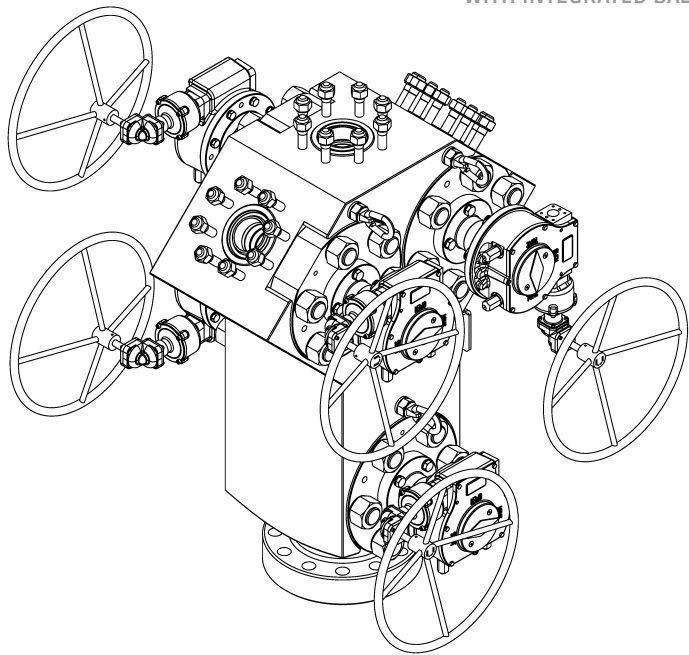
All products are designed to individual requirements and equipped with our metal-to-metal sealing system. Design, assembly and tests are carried out solely in our factories in Celle and Burgdorf-Ehlershausen. Hartmann is now run by the third family generation and have developed into an international system supplier that today employs over 160 people.



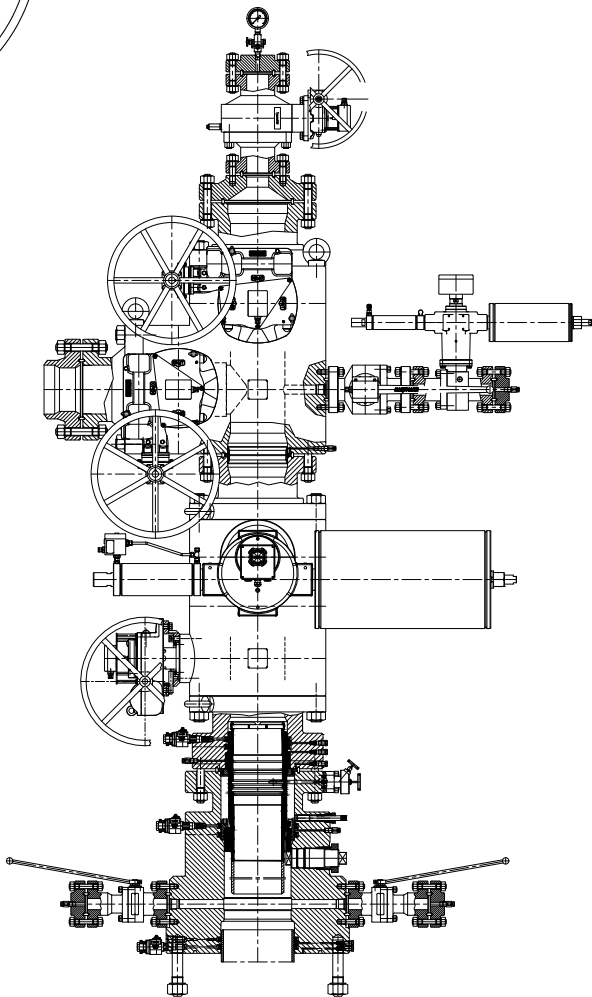
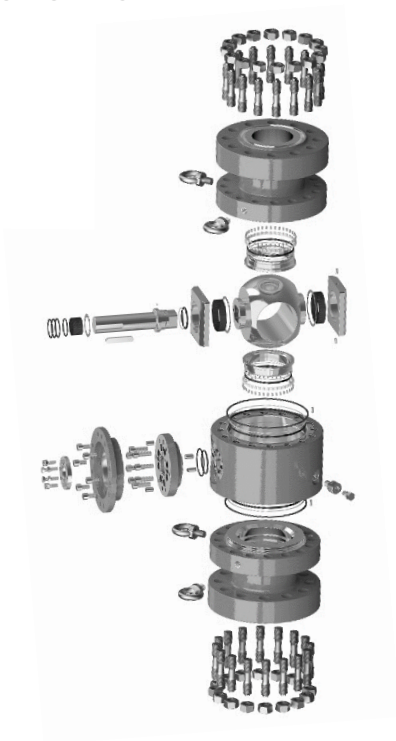
A GLIMPSE INTO OUR PRODUCTION

www.hartmann-valves.com/en/film

SOLID BLOCK TREE – 4 $\frac{1}{16}$ " 10.000 PSI
WITH INTEGRATED BALL VALVES



BALL VALVE
AND ITS COMPONENTS



WELLHEAD IN INTEGRATED DESIGN
WITH DOUBLE BARRIER SYSTEM

CONTACT

OUR SCC CERTIFIED AND WELL-EXPERIENCED
SERVICE TEAM IS READY FOR YOU.

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