

# LESER Live Online Training

## Training on Safety Valve Basics

### Day 1

| Time          | Topic                                                                                                                                                                                                           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09:00 - 10:30 | <b>T09 – The Company</b><br>- The Company - Your entry into the world of LESER<br><b>T01 – Function of safety valves in the plant</b><br>- Practical introduction to the parts on the safety valve              |
| 10:30 - 10:45 | <b>Coffee break</b>                                                                                                                                                                                             |
| 10:45 - 12:00 | <b>T01 – Function of safety valves in the plant</b><br>- Basics of overpressure protection with safety devices<br>- Function of spring-loaded safety valves                                                     |
| 12:00 – 12:45 | <b>Lunch break</b>                                                                                                                                                                                              |
| 12:45 - 14:15 | <b>T01 – Function of safety valves in the plant</b><br>- Function of pilot-operated safety valves as well as the supplementary loading system<br>- Set pressure and cold differential test pressure             |
| 14:15 - 14:30 | <b>Coffee break</b>                                                                                                                                                                                             |
| 14:30 - 15:30 | <b>T01 – Function of safety valves in the plant</b><br>- Tightness<br>- Back pressure<br>- Inlet pressure loss<br>- Installation and installation position<br>- Materials<br>- Regulations, codes and standards |
| 15:30 - 15:45 | <b>Coffee break</b>                                                                                                                                                                                             |
| 15:45 - 16:45 | <b>Workshop Technical knowledge</b>                                                                                                                                                                             |
| 17:00         | <b>End of training day 1</b>                                                                                                                                                                                    |

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### Day 2

| Time          | Topic                                                                                                                                                                                                                                                                                                                                                                                                          |
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| 09:00 - 10:30 | <b>T04 – Services around the safety valve</b> <ul style="list-style-type: none"> <li>- Tests, certificates, documentation</li> <li>- Web Services (Spare part finder, Pressure Change, Certificates)</li> <li>- 3D models and technical drawings</li> <li>- Download area - Certificates, approvals, catalogs, brochures and presentations</li> <li>- Contact search for maintenance and consulting</li> </ul> |
| 10:30 - 10:45 | <b>Coffee break</b>                                                                                                                                                                                                                                                                                                                                                                                            |
| 10:45 - 12:15 | <b>T03 - The safety valve for all industrial applications</b> <ul style="list-style-type: none"> <li>- The LESER product range and design features</li> <li>- High Performance</li> <li>- API</li> <li>- Compact Performance</li> </ul>                                                                                                                                                                        |
| 12:15 – 13:00 | <b>Lunch break</b>                                                                                                                                                                                                                                                                                                                                                                                             |
| 13:00 - 14:15 | <b>T03 - The safety valve for all industrial applications</b> <ul style="list-style-type: none"> <li>- The LESER product range and design features</li> <li>- Modulate Action</li> <li>- Critical Service</li> <li>- Clean Service</li> <li>- High Efficiency</li> <li>- Best Availability</li> </ul>                                                                                                          |
| 14:15 - 14:30 | <b>Coffee break</b>                                                                                                                                                                                                                                                                                                                                                                                            |
| 14:30 - 15:45 | <b>Workshop: The safety valve for all industrial applications</b>                                                                                                                                                                                                                                                                                                                                              |
| 15:45 – 16:00 | <b>Coffee break</b>                                                                                                                                                                                                                                                                                                                                                                                            |
| 16:00 - 16:45 | <b>T07 - Sizing, selection and configuration based on overpressure scenarios</b> <ul style="list-style-type: none"> <li>- Basics of safety valve sizing</li> <li>- Introduction to the sizing program VALVESTAR</li> <li>- Simple case scenario for sizing, selection and configuration</li> </ul>                                                                                                             |
| 17:00         | <b>End of training day 2</b>                                                                                                                                                                                                                                                                                                                                                                                   |