Tube-Hose
Quick-Disconnect Couplings

Original GATHER and Hansen Couplings
The Better Connection
The GATHER Products

Gear Pump and Wankel Pump

GATHER magnetic drive gear pumps are designed for dosing as well as process pump operations. They are complemented by the Wankel (rotary piston) pump ensuring excellent conveying and pressurizing performance. The distinctive mark of these hermetically sealed pumps is long service life and non-pulsation dosing, especially of non-lubricating liquid such as water, salt solutions and solvents but also of acid and caustic solutions.

Quick-Disconnect Couplings

The safe, robust and quickly disconnectable hose-tube joining method for almost all liquid and gaseous media. With double or single shut-off function or unrestricted medium passage in sizes ranging between DN 4 and DN 125.

The original Hansen couplings and the flat-face, non-leakage couplings of GATHER’s own DBG series are especially versatile.

Filters and Valves

For dosing performance enhancement and gear pump protection GATHER offers tailored accessories:

High-grade overflow valves and filters of stainless steel and Hastelloy as well as simple non-return valves.

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<td></td>
<td></td>
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</tr>
</tbody>
</table>

Accessories for Break-away Couplings

Accessories for DBG and HK Series

Accessories for Coding Systems

Application Examples
The tube-hose quick-disconnect couplings of GATHER and Hansen insure a safe and expedient means to separate the connections between hose-to-tube – suited for almost any kind of liquid and gas. The couplings facilitate work and save time if connections have to be frequently changed as during loading operations. Our range of products also includes various cost-effective and robust plug-type couplings of the highest quality that may easily be adapted to meet individual requirements.

**Advantages**

- Saving time when changing connections
- Ease of operation ensuring safe connection/disconnection
- Cost-efficient and robust basic models
- Short delivery times
- Safe handling through dry-break design, break-away devices and codings systems
- Suited for almost any application
- All kinds of special materials upon request
- CIP (Cleaning in Place) and SIP (Steaming/Sterilization in Place) functions upon request

The time proven original Hansen couplings comprising of types HK and ST with double or single shut-off function or unrestricted passage, in sizes ranging between DN 4 and DN 125. Moreover, couplings of DBG series with double shut-off function are available. Particularly these GATHER-own flat-face leakage-free couplings have proven their worth through CIP capability and robust construction.

With more than ½ million coupling cycles the DBG series is the top-of-the-line model on the market and is available in stainless steel 1.4021/1.4404, in Hastelloy and Titanium.

For all couplings GATHER Industrie offers a wide selection of threaded connections as well as threaded adapters, flanges and special connecting elements are available. It goes without saying that the medium* does not exit when connecting/disconnecting a dry-break coupling. Product reliability and long service life are fundamentals adopted by GATHER Industrie.

The tube-hose quick-disconnect couplings additionally satisfy TA-Luft requirements and can also be furnished as FDA-compliant products!

*aside from surface wetting
Flat-Face Quick-Disconnect Couplings of DBG Series

Double shut-off, flat-face, can be sterilized

Description

Flat-face quick-disconnect couplings of Gather series DBG feature double shut-off function for single hand operation. Their design prevents liquids from spilling when the coupling is disconnected and air from entering the line system when the connection is made. Their inside configuration enables an inline cleaning of the coupling (CIP: Cleaning In Place) to be performed. Media sufficiently washes around all coupling components, any product deposits are completely removed. The pressure drop caused by the quick-disconnect coupling is very low due to the favorable contour of the inner components resulting in optimum flow conditions. All seals are located internally which enhances operational safety.

Technical Data of DBG Series

<table>
<thead>
<tr>
<th>Series</th>
<th>DBG 1</th>
<th>DBG 2</th>
<th>DBG 3</th>
<th>DBG 4</th>
<th>DBG 6</th>
<th>DBG 8</th>
<th>DBG 12</th>
<th>DBG 16</th>
<th>DBG 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>DN 4</td>
<td>DN 6</td>
<td>DN 10</td>
<td>DN 12</td>
<td>DN 20</td>
<td>DN 25</td>
<td>DN 40</td>
<td>DN 50</td>
<td>DN 65</td>
</tr>
<tr>
<td>Adm. operating pressure [bar]*</td>
<td>320</td>
<td>400</td>
<td>400</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>50</td>
<td>40</td>
<td>30</td>
</tr>
<tr>
<td>Max. loss through wetting of valves [ml]</td>
<td>0.01</td>
<td>0.02</td>
<td>0.02</td>
<td>0.03</td>
<td>0.06</td>
<td>0.10</td>
<td>0.30</td>
<td>2.20</td>
<td>3.60</td>
</tr>
</tbody>
</table>

| Dimensions [mm] | | | | | | | | | |
|-----------------| | | | | | | | | |
| Female thread G | ¼ | ¼ | ¼ | ½ | ¾ | 1 | 1½ | 2 | 2½ |
| A               | 49 | 58 | 64 | 70 | 79 | 84 | 112   | 120   | 131   |
| B               | 25 | 36 | 42 | 49 | 58 | 67 | 78    | 148** | 170** |
| C               | 45 | 53 | 59 | 64 | 76 | 81 | 90    | 105   | 135   |
| Coupled         | 84 | 96 | 96 | 115 | 131 | 142 | 171   | 193   | 225   |
| Width A/F 1/2   | 22/22 | 30/30 | 36/36 | 41/41 | 46/46 | 55/50 | 65/70 | 75/65 | 95/95 |

* coupled at 20°C
** Diameter of handle
Function

Principle: First sealing, then clearing the passage!
When the coupling is connected the ring valve of the socket and the flat valve of the plug are pushed open. Before the valves clear the passage they seal off the interior against ambient influences. Due to the coupling design without dead spaces, air cannot ingress when the coupling is connected; neither can spillage occur during separation. With more than ½ million coupling cycles, the robust DBG series is the top-of-the-line model on the market.

Special features of CSP

The CSP model of the DBG series is of sterile design and can be sterilized inline (while mounted) using steam (SIP – Steaming in Place). The product is made of stainless steel 1.4404 with special surface roughness Ra ≤ 0.8 µm (electropolished) and, on request, provided with free welding ends or sterile connections.

Capacity Chart of DBG Series

General Technical Data of DBG Series

Materials

- Stainless steel (1.4404, 1.4021)
- Hastelloy
- Titanium

Seals

- FPM, EPDM, FFKM, FVMQ, NBR, CR etc.
  (also FDA compliant)

NEW

Temperature range - -80 °C to +325 °C
(depending on type of seal)
Flat-Face Quick-Disconnect Couplings of DBG-CUP Series

Double shut-off, dry-break, both ends connectable under pressure

Description

Flat-face quick-disconnect couplings of Gather series DBG-CUP feature double-shut-off function for single hand operation. Their design prevents liquids from spilling when the coupling is disconnected and air from entering the line system when the connection is made. Their inside configuration enables an inline cleaning of the coupling (CIP: Cleaning In Place). Media sufficiently washes around all coupling components, any product deposits are completely removed. The pressure drop caused by the quick-disconnect coupling is very low due to the favorable contour of the inner components resulting in optimum flow conditions. All seals are located internally which enhances operational safety.

Technical Data of DBG-CUP Series

<table>
<thead>
<tr>
<th>Series</th>
<th>DBG-CUP 4</th>
<th>DBG-CUP 6</th>
<th>DBG-CUP 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal diameter [DN]</td>
<td>DN 12</td>
<td>DN 20</td>
<td>DN 25</td>
</tr>
<tr>
<td>Perm. operating pressure [bar]*</td>
<td>90 90 90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. loss through wetting of valves [ml]</td>
<td>0.01 0.02 0.02</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensions [mm]

<table>
<thead>
<tr>
<th></th>
<th>DBG-CUP 4</th>
<th>DBG-CUP 6</th>
<th>DBG-CUP 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female thread G</td>
<td>¾</td>
<td>1</td>
<td>1¼</td>
</tr>
<tr>
<td>A</td>
<td>79</td>
<td>88</td>
<td>100</td>
</tr>
<tr>
<td>B</td>
<td>70</td>
<td>80</td>
<td>87</td>
</tr>
<tr>
<td>C</td>
<td>88</td>
<td>99</td>
<td>108</td>
</tr>
<tr>
<td>coupled</td>
<td>137</td>
<td>152</td>
<td>170</td>
</tr>
<tr>
<td>Width A/F 1/2</td>
<td>41/46</td>
<td>50/55</td>
<td>55/60</td>
</tr>
</tbody>
</table>

* coupled at 20° C
Function

Principle: First sealing, then clearing the passage!
When the coupling is connected the ring valve of the socket and the flat valve of the plug are pushed open. Before the valves clear the passage they seal off the interior against ambient influences. Because of the coupling design without dead spaces air cannot ingress when the coupling is connected, neither can spillage occur during separation. Due to the unique valve design socket and plug can be coupled under pressure.

CUP – Special features

CUP – Connection under pressure
The DBG-CUP series features tube-to-hose connection with both components pressurized without the need to first release the pressure. This is due to the merits offered by the unique CUP SYSTEM®. The design of the CUP valve makes sure the system pressure has minimal influence on the coupling force.

Materials
Stainless steel 1.4404

Seals
FPM, EPDM, FFKM etc. (also FDA compliant)

NEW

Temperature range -80 °C to +325 °C (depends on type of seal)
Original Hansen Tube-Hose
Quick-Disconnect Coupling of HK Series

Double shut-off versions (single or non shut-off versions also available)

Description

Quick-disconnect couplings of series HK are of double shut-off, single shut-off or straight-through design. The double shut-off type is recommendable for hazardous media such as acids, solutions, hot water or steam. In single shut-off couplings and depending on the individual application either the socket or the plug accommodates the integrated shut-off valve. When the connection is made the valves will not be caused to open before the coupling has been positively sealed off to the outside. On the other hand, the connection will not be separated before the valves have been closed. This quick-disconnect coupling features non-spill operating characteristics.

Technical Data of HK Series

<table>
<thead>
<tr>
<th>Series</th>
<th>HK 1</th>
<th>HK 2</th>
<th>HK 3</th>
<th>HK 4</th>
<th>HK 6</th>
<th>HK 8</th>
<th>HK 10</th>
<th>HK 12</th>
<th>HK 20</th>
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<td>DN 10</td>
<td>DN 12</td>
<td>DN 20</td>
<td>DN 25</td>
<td>DN 32</td>
<td>DN 40</td>
<td>DN 40</td>
</tr>
<tr>
<td>Admissible operating pressure [bar]*</td>
<td>MS</td>
<td>200</td>
<td>185</td>
<td>150</td>
<td>155</td>
<td>140</td>
<td>100</td>
<td>80</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>ST</td>
<td>275</td>
<td>255</td>
<td>255</td>
<td>345</td>
<td>275</td>
<td>275</td>
<td>120</td>
<td>150</td>
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<tr>
<td></td>
<td>VA</td>
<td>345</td>
<td>255</td>
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<td>290</td>
<td>240</td>
<td>170</td>
<td>120</td>
<td>150</td>
</tr>
<tr>
<td>Max. liquid loss [ml]</td>
<td>0.5</td>
<td>0.9</td>
<td>2.1</td>
<td>3.5</td>
<td>9.4</td>
<td>17.0</td>
<td>48.0</td>
<td>91.0</td>
<td>91.0</td>
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Dimensions [mm]

<table>
<thead>
<tr>
<th>Female thread G/NPT</th>
<th>¹⁄₈</th>
<th>¼</th>
<th>³⁄₈</th>
<th>½</th>
<th>¾</th>
<th>1</th>
<th>1¼</th>
<th>1½</th>
<th>2</th>
<th>2½</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
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<td>70</td>
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<td>105</td>
<td>105</td>
</tr>
<tr>
<td>C</td>
<td>32</td>
<td>39</td>
<td>45</td>
<td>51</td>
<td>59</td>
<td>71</td>
<td>108</td>
<td>122</td>
<td>122</td>
<td>140</td>
<td>155</td>
</tr>
<tr>
<td>Coupled</td>
<td>60</td>
<td>72</td>
<td>80</td>
<td>94</td>
<td>106</td>
<td>129</td>
<td>174</td>
<td>190</td>
<td>190</td>
<td>216</td>
<td>246</td>
</tr>
<tr>
<td>Width A/F 1/2</td>
<td>15/15</td>
<td>19/19</td>
<td>23/23</td>
<td>29/29</td>
<td>34/34</td>
<td>45/42</td>
<td>61/61</td>
<td>61/61</td>
<td>61/61</td>
<td>96/96</td>
<td>96/96</td>
</tr>
</tbody>
</table>

* MS = Brass, ST = Steel, VA = Stainless Steel
* coupled at 20°C
Special types

DN 80 and DN 125 (see figure to the right)
Based on ISO 7241-1 Series B of size DN 80

Materials

Stainless steel (1.4305, 1.4401)
Steel – yellow chromated, free of chromium (VI)
Brass – passivated
Brass – nickel plated
Hastelloy
Titanium

Seals

NBR, FPM, EPDM, CR,
FVMQ, PTFE, FFKM etc.
(also FDA compliant)

General Technical Data of HK Series

Function

Principle: First sealing, then clearing the passage!
When the coupling is connected the valves of the socket and the plug are pushed open. Before the valves clear the passage they seal off the interior against ambient influences. Due to the robust design air inclusions during coupling and residual leakage during separation are minimized.

Capacity Chart of HK Series

Temperature range

-80 °C to +325 °C
(depending on type of seal)
Original Hansen Tube-Hose Quick-Disconnect Coupling of ST Series

Non shut-off version

Description

Coupling series ST is of extremely robust design. It proves especially useful if the flow of highly viscous media (e.g. grease) and must be ensured that a shut-off function is not required.

Technical Data of ST Series

<table>
<thead>
<tr>
<th>Series</th>
<th>ST 1</th>
<th>ST 2</th>
<th>ST 3</th>
<th>ST 4</th>
<th>ST 6</th>
<th>ST 8</th>
<th>ST 10</th>
<th>ST 12</th>
<th>ST 16</th>
<th>ST 20</th>
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</thead>
<tbody>
<tr>
<td>Nominal diameter</td>
<td>DN 4</td>
<td>DN 6</td>
<td>DN 10</td>
<td>DN 12</td>
<td>DN 20</td>
<td>DN 25</td>
<td>DN 32</td>
<td>DN 40</td>
<td>DN 50</td>
<td>DN 60</td>
</tr>
<tr>
<td>Permissible operating pressure [bar]*</td>
<td>MS</td>
<td>190</td>
<td>360</td>
<td>190</td>
<td>150</td>
<td>115</td>
<td>90</td>
<td>115</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>ST</td>
<td>230</td>
<td>380</td>
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<td>240</td>
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<td>140</td>
<td>185</td>
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<tr>
<td>VA</td>
<td>290</td>
<td>520</td>
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<td>210</td>
<td>140</td>
<td>150</td>
<td>170</td>
<td>100</td>
<td>–</td>
</tr>
</tbody>
</table>

Dimensions [mm]

<table>
<thead>
<tr>
<th>Female thread G/NPT</th>
<th>⅛</th>
<th>⅛</th>
<th>⅞</th>
<th>⅜</th>
<th>⅝</th>
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<th>1</th>
<th>1¼</th>
<th>1½</th>
<th>2</th>
<th>2½</th>
</tr>
</thead>
<tbody>
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<td>A</td>
<td>27</td>
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<td>41</td>
<td>49</td>
<td>53</td>
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<td>63</td>
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<td>B</td>
<td>18</td>
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<td>C</td>
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<td>64</td>
<td>73</td>
<td>77</td>
<td>86</td>
<td></td>
</tr>
<tr>
<td>Coupled</td>
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<td>57</td>
<td>61</td>
<td>75</td>
<td>77</td>
<td>88</td>
<td>98</td>
<td>107</td>
<td>111</td>
<td>124</td>
<td></td>
</tr>
<tr>
<td>Width A/F 1/2 (applies to NPT)</td>
<td>15/13</td>
<td>21/18</td>
<td>26/21</td>
<td>29/26</td>
<td>37/31</td>
<td>45/40</td>
<td>51/51</td>
<td>67/58</td>
<td>77/70</td>
<td>89/83</td>
<td></td>
</tr>
</tbody>
</table>

MS = Brass, ST = Steel, VA = Stainless Steel

* coupled at 20°C
Special features

Modified GATHER-own version (STG series) can be manufactured with an excellent surface finish of Ra ≤ 0.8 µm (electropolished) for use with pharmaceutical applications or made of special materials such as Hastelloy or Titanium.

Capacity Chart of ST Series

General Technical Data of ST Series

**Materials**
- Stainless steel (1.4305, 1.4401)
- Steel – yellow chromated, free of chromium (VI)
- Brass – passivated
- Brass – nickel plated
- Hastelloy
- Titanium

**Seals**
- FPM, EPDM, FFKM, FVMQ, NBR, CR etc.
  (also FDA compliant)

**NEW**

**Temperature range**
- -80 °C to +325 °C
  (depending on type of seal)
Accessories for Break-away Couplings

Double shut-off, disconnected through wire rope pull

Description

In a hoseline conveying hazardous media a predetermined breaking point has to be determined that prevents spillage of dangerous liquids or combustible gases in the event of unexpectedly exerted pull forces.

For this purpose, flanged couplings attached via tear-off pins are usually employed. If such a coupling becomes detached in an emergency and greater efforts are needed to restore the original state of the connection, i.e. manufacturer’s service staff must come out to re-mount the coupling.

Emergency break function

Our quick-disconnect coupling with double shut-off and wire rope break feature is a more cost-effective solution: A wire rope attached to the socket’s sliding collar pulls the collar into the opening direction if the hose is torn off. The plug inside the socket is deinterlocked and the valves in both coupling components close. Now the plug is permitted to slide out of the socket’s seal ring.

After separation both hose ends can be reconnected by simply plugging them together so that the coupling is again immediately ready for use. The rope wire length has been selected such that the sliding collar of the socket moves into opening direction before the hose tightens.

Series DBC and HK
Accessories for DBG and HK Series

Handles

Handles are available and facilitate the manipulation of large sizes primarily if the operator must wear gloves or work with full protective equipment.

Advantages

- Shear or tear-off pins need not be replaced after an emergency break, simply plugging the parts together restores the connection.
- The coupling offers break-away and quick-disconnect functions in a single system.
- To function properly the coupling needs not be arranged in the middle of the hose but is located on the vehicle itself: The vehicle thus does not leave carrying along a disconnected hose section, instead the entire hose remains at the loading station!

Dust caps

Safely protect coupling and valve surfaces against dirt accumulation.

Materials: Plastic, aluminum, stainless steel
Accessories for Coding Systems

Electronic version

Description

When preparing formulations for the production of parent substances and agents storage tanks must be correctly assigned to the respective reactors. A detection system arranged on the coupling and integrated into the actuating elements enables the relevant lines to be correctly identified. This system comprises a code carrier providing the required information and a code reader relaying the respective data to the control room. From the control room it can be verified whether the correct tank has been allocated to the relevant reactor. When connected the code reader of the detection system is in contact with the code carrier. From the control room the connection is cleared so that medium can be fed into the reactor.

Detection system

Explosion protection EEX ia IIIC T4; connectable to PLC or PC serial, parallel, BUS

This system allows the operator:

• To connect and disconnect hose lines without spillage
• To check that the right tank is connected to the reactor
• To avoid mixing of fluids due to a wrong tank/reactor connection.
• To prevent the costly production of faulty product
Accessories for Coding Systems

Mechanical version

Description

When filling or refilling different types of product the respective lines must by no means be confused. This is warranted by a pin coding system available for our couplings.

Our mechanical coding system offers an almost unlimited number of coding positions to be provided via the two pins. Coding can be easily verified from the outside. During connection the pins can be easily positioned without twisting of the hose. There is no need to tediously determine the correct coding positions, color coding is not necessary.

Using a wrong hose on a given tank will reliably prevent the valves from opening and thus avoid undesired product mixing. Moreover, valve opening is also ruled out when the coupling is mounted obliquely.
Application Examples

Coupling Technology

Plant Construction

GATHER quick-disconnect couplings serve to separate and connect media lines in modern continuous casting plants, electric arc furnaces or rolling mills. Hydraulic high-pressure line components can be quickly replaced. Ready-to-mount GATHER multicouplings disconnect and join cooling lines in no time without any water leakage thus there is no need to empty the piping system. Automatically operated GATHER couplings enable rollers to be replaced without oil losses. Quick-disconnect couplings from GATHER are robust as well as reliable and have proven their worth in rough day-to-day steel mill service.

Chemical Industry

Particularly, applications in the chemical industry set various off-standard requirements that quick-disconnect couplings must satisfy. GATHER Engineering develops technical solutions especially tailored to the individual needs of our customers. Aside from stainless steel other high-grade materials are used for these components such as Hastelloy or Titanium. Our modern CNC production facilities have also been set up to handle small-batch series for various special construction units and materials.

Bioprocess Technology

Uncontaminated biological cultures can only be produced in an aseptic environment using installations that warrant absolute tightness. GATHER dry-break couplings that can be sterilized enable virulent microorganisms to be safely handled. Working without spillage and air ingressing allows sterile connections to be made up very quickly and easily. Exclusively FDA-compliant materials are used with surfaces meeting the requirements associated with GMP-conforming components.
**Loading Systems**

During the refilling and filling operation of rail or road tankers no hazardous substances are allowed to exit that place operating personnel in harms way. Hose couplings of series DBG and DBF are so-called dry-break couplings that insure hose lines are connected or separated without spillage. The TÜV Rheinland inspection agency certifies the operational safety of these couplings. Nevertheless, these couplings are also first choice in all other applications where liquid media is to be handled without spillage at connecting points, particularly if high flow rates are involved.

**Shipbuilding**

For various media supply systems in shipbuilding applications hoselines and piping are equipped with reliable GATHER quick-disconnect couplings. These couplings ensuring smooth loading and unloading operations on modern container ships with computer-assisted logistics.

**Painting Technology**

When individual paint composition needs have to be met the smallest paint flows are of great importance. GATHER quick-disconnect couplings of type DBG are the first-choice components particularly when frequent paint material changes are required due to their design without dead spaces which enables them to be flushed clean removing all residues. Containers are filled with surplus paint material and then disconnected. With the help of the flat-face quick-disconnect coupling type DBG other paint containers can be used without the mixing of paint materials occurring.
Quality – Made in Germany

Professional expertise:
Personal engineering consultation
inhouse and in the field

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