



# CERTIFICATE

The Conformity Assessment Body  
of TÜV SÜD Industrie Service GmbH

certifies that the company

**Fomas S.p.A.**  
**Via Martiri della Liberazione, 17**  
**IT - 23875 Osnago (LC)**

has implemented, operates and maintains a

**Quality Assurance System in accordance with the  
Pressure Equipment Directive 2014/68/EU, Annex I, Section 4.3,  
AD 2000-Merkblatt W 0 as well as EN 764-5, Para. 4.2**

as a material manufacturer for the scope of

forgings in carbon, alloy and high alloyed steels.

The scope of the approval is described in the Annex 1 of this certificate.  
Further details are mentioned in report no. R-CBM-722424366-26 -00.

The manufacturer is therefore authorized to issue certificates of specific product control within the scope of the assessed quality system and in accordance with the Pressure Equipment Directive 2014/68/EU. Possible additional requirements - specific to applied technical specifications to meet PED Annex I - are not affected.

This certificate is valid through 2029-10-31.

**An annual surveillance audit is required to maintain validity.**

Certificate No.: DGR-0036-QS-W 003/2003/MUC-04  
Munich, 2026-10-20



Certification Body

Matthias Strobel



# ZERTIFIKAT

Die Konformitätsbewertungsstelle  
der TÜV SÜD Industrie Service GmbH

bescheinigt, dass die Firma

**Fomas S.p.A.**  
**Via Martiri della Liberazione, 17**  
**IT - 23875 Osnago (LC)**

als Werkstoffhersteller für

Schmiedestücke aus un-, niedrig- und hochlegierten Stählen

**über ein zertifiziertes Qualitätsmanagementsystem**  
**entsprechend Anhang I, Absatz 4.3 der Druckgeräte Richtlinie 2014/68/EU,**  
**AD 2000-Merkblatt W 0 sowie EN 764-5, Absatz 4.2**

verfügt und dieses anwendet.

Der Geltungsbereich ist aus der Anlage 1 ersichtlich.  
Weitere Einzelheiten sind im Bericht Nr. R-CBM-722424366-26 -00 genannt.

Das Unternehmen ist daher berechtigt, in Übereinstimmung mit der Druckgeräte Richtlinie 2014/68/EU Bescheinigungen über spezifische Prüfungen an den Werkstoffen im o.g. Geltungsbereich auszustellen. Eventuell weitergehende Anforderungen aus den angewandten technischen Spezifikationen zur Erfüllung des Anhanges I bleiben unberührt.

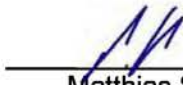
Das Zertifikat ist gültig bis 31.10.2029.

**Zur Aufrechterhaltung der Gültigkeit ist ein jährliches Überwachungsaudit erforderlich.**

Zertifikat-Nr.: DGR-0036-QS-W 003/2003/MUC-04  
München, 20.10.2026



Zertifizierungsstelle

  
Matthias Strobel

# Conformity Assessment Body for products, processes and services / Konformitätsbewertungsstelle für Produkte, Prozesse und Dienstleistungen



CAB-CBM-04\_E\_G\_Annex 1

Annex 1 of certificate for material manufacturer /  
Anlage 1 des Zertifikats als Hersteller von Werkstoffen

## Scope of approval - AD 2000-Merkblatt W 0 / Geltungsbereich nach AD 2000-Merkblatt W 0

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                     |                                                  |                           |                                                    |                                                                                 |                          |            |                                   |                         |                                                                                                                  |          |                                                                       |                   |                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|--------------------------|------------|-----------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------|
| Manufacturer / Name: Fomas S.p.A.<br>Hersteller: Street / Straße: Via Martiri della Liberazione, 17<br>City / Ort: 23875 Osnago (LC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                     |                                                  |                           |                                                    |                                                                                 | Country / Land: IT       |            | Date / Datum rev. 0<br>2026-10-20 |                         | Annex 1 of certificate no. / Anlage 1 zum Zertifikat Nr. DGR-0036-QS-W 003/2003/MUC-04<br>von / dated 2026-10-20 |          |                                                                       |                   |                                                                                                         |
| No. / lfd. Nr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Material designation<br>Material grade / Werkstoffbezeichnung<br>Werkstoff-Nr.                                                                                                                                                      | Material specification / Werkstoff-spezifikation |                           | Delivery condition / Lieferzustand / Code / Kürzel | Product description / Prüfgegenstand Erzeugnisform                              | Dimensions / Abmessungen |            |                                   |                         | Weight / Gewicht                                                                                                 |          | Requirements<br>Technical Rules / Prüfgrundlagen<br>Technische Regeln |                   | Report no. / Bericht Nr.: R-CBM-722424366-26 -00<br>dated / vom 2026-10-14<br><br>Remarks / Bemerkungen |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                     | Spec. / Art                                      | No. / Nr.                 |                                                    |                                                                                 | Thickness / Dicke [mm]   | from / von | to / bis                          | Diameter / Durchm. [mm] | from / von                                                                                                       | to / bis | 1=t<br>2=kg<br>↓                                                      | value / Wert      |                                                                                                         |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                                                                                                                                                                                                                   | 3a                                               | 3b                        | 4                                                  | 5                                                                               | 6a                       | 6b         | 7a                                | 7b                      | 8a                                                                                                               | 8b       | 9a                                                                    | 9b                | 10                                                                                                      |
| 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | S235JRG2 (1.0038)<br>S355J2G3 (1.0570)                                                                                                                                                                                              | EN<br>DIN                                        | 10250-2<br>17100          | N                                                  | Schmiedestück / forging<br>Stab / bar                                           | -                        | 100        | -                                 | -                       | -                                                                                                                | -        | AD 2000<br>TRD                                                        | W13<br>107        | Inspection certificate according to AD 2000 W13 and W12.                                                |
| 02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Warmfeste Stähle / heat resisting<br>steels                                                                                                                                                                                         | EN<br>DIN                                        | 10269<br>17240            | N, QT                                              | Stab / bar                                                                      | -                        | -          | -                                 | d                       | -                                                                                                                | -        | AD 2000<br>TRD                                                        | W7<br>106         |                                                                                                         |
| 03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Warmfeste Stähle / heat resisting<br>steels<br>17 Mn 4 (1.0481)<br>20 Mn 5 (1.1133)                                                                                                                                                 | EN<br>DIN                                        | 10222-2<br>17243          | N, QT                                              | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -                        | 250        | -                                 | -                       | -                                                                                                                | -        | AD 2000<br>TRD<br>AD-2000                                             | W13<br>107<br>W12 |                                                                                                         |
| 04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Warmfeste Stähle / heat resisting<br>steels<br>P250GH / C 22.8 (1.0460),<br>16Mo3 (1.5415),<br>13CrMo4-5 (1.7335),<br>10CrMo9-10 (1.7380),<br>11CrMo9-10 (1.7383)<br>P280GH (1.0426)<br>P305GH (1.0436)<br>P295GH (1.0481)          | EN<br>DIN                                        | 10222-2<br>17243          | N, QT                                              | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -                        | 500        | -                                 | -                       | -                                                                                                                | -        | AD 2000<br>TRD<br>AD 2000                                             | W13<br>107<br>W12 | Inspection certificate according to AD 2000 W13 and W12.                                                |
| 05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | X2CrMo18-9 (1.4307)<br>X2CrNi19-11 (1.4306)<br>X2CrNiN18-10 (1.4311)<br>X5CrNi18-10 (1.4301)<br>X6CrNi18-10 (1.4948)<br>X6CrNiTi18-10 (1.4541)<br>X2CrNiMo17-12-2 (1.4404)<br>X2CrNiMoN17-11-2 (1.4406)<br>X5CrNiMo17-12-2 (1.4401) | EN<br>DIN<br>DIN                                 | 10222-5<br>17440<br>17460 | AT                                                 | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -                        | d          | -                                 | -                       | -                                                                                                                | -        | AD 2000<br>AD 2000                                                    | W2<br>W10         | Inspection certificate according to AD 2000 W2 table 3a/b                                               |
| Explanation / Erklärung: AT = solution annealed / Lösungsgeglüht NT = normalized and tempererd / Normalgeglüht und angelassen N = normalized / Normalgeglüht S = stress relieved / Spannungsarmgeglüht TM = thermo-mech. treated / Thermomech. behandelt U = not annealed / ungeglüht<br>QT = quenched and tempered / vergütet CR = temperature controlled hot formed (controlled rolled) / temperatureregelt warmumgeformt A = annealed / weichgeglüht AR = as rolled / wie gewalzt<br>a = material designation in column 10 / Werkstoffbezeichnung in Spalte 10 b = delivery condition in column 10 or acc. to material specification / Lieferzustand in Spalte 10 bzw. gem. Werkstoffspezifikation c = object in column 10 / Prüfgegenstand in Spalte 10<br>d = dimensions acc. to technical rules / Abmessungen in den Techn. Regeln e = weight acc. to technical rules / Gewicht in den Techn. Regeln f = technical rules reference in column 10 / techn. Regeln in Spalte 10 |                                                                                                                                                                                                                                     |                                                  |                           |                                                    |                                                                                 |                          |            |                                   |                         |                                                                                                                  |          |                                                                       |                   |                                                                                                         |

# Conformity Assessment Body for products, processes and services / Konformitätsbewertungsstelle für Produkte, Prozesse und Dienstleistungen



CAB-CBM-04\_E\_G\_Annex 1

Annex 1 of certificate for material manufacturer /  
Anlage 1 des Zertifikats als Hersteller von Werkstoffen

## Scope of approval - AD 2000-Merkblatt W 0 / Geltungsbereich nach AD 2000-Merkblatt W 0

| Manufacturer / Name: Fomas S.p.A.<br>Hersteller: Street / Straße: Via Martiri della Liberazione, 17<br>City / Ort: 23875 Osnago (LC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                 |                                                  |                                    |                                                    |                                                                                 | Country / Land: IT       |            | Date / Datum rev. 0<br>2026-10-20 |                         | Annex 1 of certificate no. / Anlage 1 zum Zertifikat Nr. DGR-0036-QS-W 003/2003/MUC-04<br>von / dated 2026-10-20 |          |                                                                       |                          |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|--------------------------|------------|-----------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| No. / lfd. Nr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Material designation<br>Material grade / Werkstoffbezeichnung<br>Werkstoff-Nr.                                  | Material specification / Werkstoff-spezifikation |                                    | Delivery condition / Lieferzustand / Code / Kürzel | Product description / Prüfgegenstand Erzeugnisform                              | Dimensions / Abmessungen |            |                                   |                         | Weight / Gewicht                                                                                                 |          | Requirements<br>Technical Rules / Prüfgrundlagen<br>Technische Regeln |                          | Report no. / Bericht Nr.:<br>R-CBM-722424366-26 -00<br>dated / vom 2026-10-14<br><br>Remarks / Bemerkungen                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                 | Spec. / Art                                      | No. / Nr.                          |                                                    |                                                                                 | Thickness / Dicke [mm]   | from / von | to / bis                          | Diameter / Durchm. [mm] | from / von                                                                                                       | to / bis | 1=t<br>2=kg<br>↓                                                      | value / Wert             |                                                                                                                                  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                                                                                               | 3a                                               | 3b                                 | 4                                                  | 5                                                                               | 6a                       | 6b         | 7a                                | 7b                      | 8a                                                                                                               | 8b       | 9a                                                                    | 9b                       | 10                                                                                                                               |
| 06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12CrMo19-5 (1.7362)                                                                                             | TÜVV                                             | 007/3                              | N, QT                                              | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow               | -                        | 250        | -                                 | -                       | -                                                                                                                | -        | AD 2000<br>TRD<br>AD 2000                                             | W13<br>107<br>W12        | 3.2 inspection certificate is mandatory.                                                                                         |
| 07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | X20CrMoV11-1 (1.4922)                                                                                           | TÜVV                                             | 110                                | QT                                                 | nahtl. Hohlkörper /<br>seamless hollow                                          | -                        | 160        | -                                 | -                       | -                                                                                                                | -        | AD 2000                                                               | W12                      | 3.2 inspection certificate is mandatory.                                                                                         |
| 08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | P250GH/C 22.8 (1.0460)                                                                                          | TÜVV                                             | 350/3                              | N                                                  | Flansch / flange                                                                | -                        | 250        | -                                 | -                       | -                                                                                                                | -        | AD 2000                                                               | W9                       |                                                                                                                                  |
| 09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | P355NH (1.0565), P355NL1 (1.0566)<br>P355QH1 (1.0571)<br>P355QL1 (1.8868)<br>P420QH (1.8936)<br>P460QH (1.8871) | EN<br>TÜVV<br>TÜVV<br>TÜVV                       | 10222-4<br>354/3<br>356/3<br>357/3 | N, QT                                              | Schmiedestück/ forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar  | -                        | 400        | -                                 | -                       | -                                                                                                                | -        | AD 2000<br>TRD<br>AD 2000<br>AD 2000                                  | W13<br>107<br>W12<br>W10 | 3.2 inspection certificate is mandatory.<br><br>Einzelgutachten / individual expertise<br>Einzelgutachten / individual expertise |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | C 22.3 (1.0427)                                                                                                 | TÜVV                                             | 364                                | N                                                  | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -                        | 150        | -                                 | -                       | -                                                                                                                | -        | AD 2000<br>TRD<br>AD 2000<br>AD 2000                                  | W13<br>107<br>W12<br>W9  |                                                                                                                                  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15NiCuMoNb5 / WB 36 (1.6368)                                                                                    | TÜVV                                             | 377/3                              | QT                                                 | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -                        | 650        | -                                 | -                       | -                                                                                                                | -        | AD 2000<br>TRD<br>AD 2000                                             | W13<br>107<br>W12        | 3.2 inspection certificate is mandatory.                                                                                         |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | X3CrNiMo13-4 (1.4313)                                                                                           | TÜVV                                             | 395                                | QT                                                 | Schmiedestück / forging<br>Stab / bar                                           | -                        | -          | -                                 | 450                     | -                                                                                                                | -        | AD 2000<br>TRD<br>f<br>AD 2000                                        | W13<br>107<br>W10        | Einzelgutachten / individual expertise<br>f = kerntechnische Verwendung /<br>use for nuclear                                     |
| Explanation / Erklärung: AT = solution annealed / Lösungsgeglüht NT = normalized and tempererd / Normalgeglüht und angelassen N = normalized / Normalgeglüht S = stress relieved / Spannungsarmgeglüht TM = thermo-mech. treated / Thermomech. behandelt U = not annealed / ungeglüht<br>QT = quenched and tempered / vergütet CR = temperature controlled hot formed (controlled rolled) / temperatureregelt warmumgeformt A = annealed / weichgeglüht AR = as rolled / wie gewalzt<br>a = material designation in column 10 / Werkstoffbezeichnung in Spalte 10 b = delivery condition in column 10 or acc. to material specification / Lieferzustand in Spalte 10 bzw. gem. Werkstoffspezifikation c = object in column 10 / Prüfgegenstand in Spalte 10<br>d = dimensions acc. to technical rules / Abmessungen in den Techn. Regeln e = weight acc. to technical rules / Gewicht in den Techn. Regeln f = technical rules reference in column 10 / techn. Regeln in Spalte 10 |                                                                                                                 |                                                  |                                    |                                                    |                                                                                 |                          |            |                                   |                         |                                                                                                                  |          |                                                                       |                          |                                                                                                                                  |

# Conformity Assessment Body for products, processes and services / Konformitätsbewertungsstelle für Produkte, Prozesse und Dienstleistungen



CAB-CBM-04\_E\_G\_Annex 1

Annex 1 of certificate for material manufacturer /  
Anlage 1 des Zertifikats als Hersteller von Werkstoffen

## Scope of approval - AD 2000-Merkblatt W 0 / Geltungsbereich nach AD 2000-Merkblatt W 0

| Manufacturer / Name: Fomas S.p.A.<br>Hersteller: Street / Straße: Via Martiri della Liberazione, 17<br>City / Ort: 23875 Osnago (LC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                   |                                                  |                             |                                                    |                                                                        | Country / Land: IT       |     | Date / Datum rev. 0<br>2026-10-20 |    | Annex 1 of certificate no. / Anlage 1 zum Zertifikat Nr. DGR-0036-QS-W 003/2003/MUC-04 von / dated 2026-10-20 |              |                                                                       |                          |                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------|----------------------------------------------------|------------------------------------------------------------------------|--------------------------|-----|-----------------------------------|----|---------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------|
| No. / lfd. Nr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Material designation<br>Material grade / Werkstoffbezeichnung<br>Werkstoff-Nr.                                                                                                    | Material specification / Werkstoff-spezifikation |                             | Delivery condition / Lieferzustand / Code / Kürzel | Product description / Prüfgegenstand Erzeugnisform                     | Dimensions / Abmessungen |     |                                   |    | Weight / Gewicht                                                                                              |              | Requirements<br>Technical Rules / Prüfgrundlagen<br>Technische Regeln |                          | Report no. / Bericht Nr.: R-CBM-722424366-26 -00<br>dated / vom 2026-10-14<br><br>Remarks / Bemerkungen           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                   | Spec. / Art                                      | No. / Nr.                   |                                                    |                                                                        | Thickness / Dicke [mm]   |     | Diameter / Durchm. [mm]           |    | 1=t<br>2=kg<br>↓                                                                                              | value / Wert | Spec. / Art /                                                         | No. / Nr..               |                                                                                                                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                                                                                                                                                                                 | 3a                                               | 3b                          | 4                                                  | 5                                                                      | 6a                       | 6b  | 7a                                | 7b | 8a                                                                                                            | 8b           | 9a                                                                    | 9b                       | 10                                                                                                                |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20MnMoNi5-5 (1.6310)                                                                                                                                                              | TÜVV                                             | 401/3                       | QT                                                 | Schmiedestück / forging Stab / bar                                     | 150                      | 650 | -                                 | -  | -                                                                                                             | -            | f                                                                     |                          | Inspection certificate according to VdTÜV WB 401/3 section 14.                                                    |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12CrMo910 (1.7375)                                                                                                                                                                | TÜVV                                             | 404/3                       | QT                                                 | Schmiedestück / forging nahtl. Hohlkörper / seamless hollow Stab / bar | -                        | 540 | -                                 | -  | -                                                                                                             | -            | AD 2000<br>AD 2000<br>TRD<br>TRD                                      | W12<br>W13<br>104<br>107 | 3.2 inspection certificate is mandatory.                                                                          |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15 MnNi 6 3 (1.6210)                                                                                                                                                              | TÜVV                                             | 427/3                       | N                                                  | Schmiedestück / forging nahtl. Hohlkörper / seamless hollow Stab / bar | 50                       | 320 | -                                 | -  | -                                                                                                             | -            | f                                                                     |                          | Inspection certificate according to VdTÜV WB 427/3 section 14.<br>f = kerntechnische Verwendung / use for nuclear |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20MnMoNi4-5 (1.6311)                                                                                                                                                              | TÜVV                                             | 440/3                       | QT                                                 | Schmiedestück / forging Stab / bar                                     | -                        | 400 | -                                 | -  | -                                                                                                             | -            | AD 2000<br>TRD<br>AD 2000                                             | W12<br>107<br>W13        | 3.2 inspection certificate is mandatory.                                                                          |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | X 6 CrNiTi 18 10 S (1.4533)<br>X 6 CrNiNb 18 10 S (1.4553)<br>X 6 CrNiMoTi 17 12 2 S (1.4579)<br>X6CrNiTi18-10 (1.4541),<br>X6CrNiNb18-10 (1.4550),<br>X6CrNiMoTi17-12-2 (1.4571) | TÜVV<br><br>EN<br>EN                             | 451<br><br>10255-5<br>10272 | AT                                                 | Schmiedestück / forging nahtl. Hohlkörper / seamless hollow Stab / bar | -                        | d   | -                                 | -  | -                                                                                                             | -            | f                                                                     |                          | 3.2 inspection certificate is mandatory.                                                                          |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C 22.8 S 1 (1.1338)                                                                                                                                                               | TÜVV                                             | 453                         | N                                                  | Schmiedestück / forging Stab / bar                                     | -                        | 500 | -                                 | -  | -                                                                                                             | -            | f                                                                     |                          | 3.2 inspection certificate is mandatory.                                                                          |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | X10CrMoVNb9-1 / F 91 (1.4903)                                                                                                                                                     | EN<br>TÜVV                                       | 10222-2<br>511/3            | QT                                                 | Schmiedestück / forging Stab / bar                                     | -                        | 500 | -                                 | -  | -                                                                                                             | -            | AD 2000<br>TRD                                                        | W13<br>107               | 3.2 inspection certificate is mandatory.                                                                          |
| Explanation / Erklärung: AT = solution annealed / Lösungsgeglüht NT = normalized and tempered / Normalgeglüht und angelassen N = normalized / Normalgeglüht S = stress relieved / Spannungsarmgeglüht TM = thermo-mech. treated / Thermomech. behandelt U = not annealed / ungeglüht<br>QT = quenched and tempered / vergütet CR = temperature controlled hot formed (controlled rolled) / temperatureregelt warmumgeformt A = annealed / weichgeglüht AR = as rolled / wie gewalzt<br>a = material designation in column 10 / Werkstoffbezeichnung in Spalte 10 b = delivery condition in column 10 or acc. to material specification / Lieferzustand in Spalte 10 bzw. gem. Werkstoffspezifikation c = object in column 10 / Prüfgegenstand in Spalte 10<br>d = dimensions acc. to technical rules / Abmessungen in den Techn. Regeln e = weight acc. to technical rules / Gewicht in den Techn. Regeln f = technical rules reference in column 10 / techn. Regeln in Spalte 10 |                                                                                                                                                                                   |                                                  |                             |                                                    |                                                                        |                          |     |                                   |    |                                                                                                               |              |                                                                       |                          |                                                                                                                   |

**Explanation / Erklärung:** AT = solution annealed / Lösungsgelüht NT = normalized and tempered / Normalgelüht und angelassen N = normalized / Normalgelüht S = stress relieved / Spannungsarmgelüht TM = thermo-mech. treated / Thermomech. behandelt U = not annealed / ungelüht  
QT = quenched and tempered / vergütet CR = temperature controlled hot formed (controlled rolled) / temperatureregelt warmumgeformt A = annealed / weichgelüht AR = as rolled / wie gewalzt  
a = material designation in column 10 / Werkstoffbezeichnung in Spalte 10 b = delivery condition in column 10 or acc. to material specification / Lieferzustand in Spalte 10 bzw. gem. Werkstoffspezifikation c = object in column 10 / Prüfgegenstand in Spalte 10  
d = dimensions acc. to technical rules / Abmessungen in den Techn. Regeln e = weight acc. to technical rules / Gewicht in den Techn. Regeln f = technical rules reference in column 10 / techn. Regeln in Spalte 10



Annex 1 of certificate for material manufacturer /  
*Anlage 1 des Zertifikats als Hersteller von Werkstoffen*

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                   |                                                 |                    |                                                    |                                                                                 |                                   |                                                                                                                  |          |                         |                  |          |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------|----------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------|----------|-------------------------|------------------|----------|-----------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer / Name: Fomas S.p.A.<br>Hersteller: Street / Straße: Via Martiri della Liberazione, 17<br>City / Ort: 23875 Osnago (LC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                   |                                                 |                    |                                                    | Country / Land: IT                                                              | Date / Datum rev. 0<br>2026-10-20 | Annex 1 of certificate no. / Anlage 1 zum Zertifikat Nr. DGR-0036-QS-W 003/2003/MUC-04<br>von / dated 2026-10-20 |          |                         |                  |          |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| No. / lfd. Nr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Material designation<br>Material grade / Werkstoffbezeichnung<br>Werkstoff-Nr.                                                                                                                                                                                                    | Material specification / Werkstoffspezifikation |                    | Delivery condition / Lieferzustand / Code / Kürzel | Product description / Prüfgegenstand<br>Erzeugnisform                           | Dimensions / Abmessungen          |                                                                                                                  |          |                         | Weight / Gewicht |          | Requirements<br>Technical Rules / Prüfgrundlagen<br>Technische Regeln |              | Report no. / Bericht Nr.: R-CBM-722424366-26 -00<br>dated / vom 2026-10-14<br><br>Remarks / Bemerkungen                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                   | Spec. / Art                                     | No. / Nr.          |                                                    |                                                                                 | Thickness / Dicke [mm]            | from / von                                                                                                       | to / bis | Diameter / Durchm. [mm] | from / von       | to / bis | 1=t<br>2=kg<br>↓                                                      | value / Wert |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                                                                                                                                                                                                                                                                                 | 3a                                              | 3b                 | 4                                                  | 5                                                                               | 6a                                | 6b                                                                                                               | 7a       | 7b                      | 8a               | 8b       | 9a                                                                    | 9b           | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 01*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S235JR (1.0038),<br>S355J2G3 (1.0570)<br>C22 (1.0402), C30 (1.0528)<br>C30E (1.1178), C35 (1.0501)<br>C35E (1.1181), C40 (1.0511)<br>C40E (1.1185), C45 (1.0503)<br>C45E (1.1191), C50 (1.0540)<br>C50E (1.1206), C55 (1.0535)<br>C55E (1.1203), 28Mn6 (1.1170)<br>20Mn5 (1.1133) | EN<br>DIN                                       | 10250-2<br>17100   | N                                                  | Schmiedestück / forging<br>Stab / bar                                           | -<br>-                            | 100<br>-                                                                                                         | -<br>-   | -<br>100                | -<br>-           | -<br>-   |                                                                       |              | *) To fulfil essential safety requirements of PED Annex I, for each material acc. to non harmonised standards a Particular Material Appraisal (PMA) is mandatory.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Warmfeste Stähle/ heat resisting steels                                                                                                                                                                                                                                           | EN<br>DIN                                       | 10269<br>17240*)   | N, QT                                              | Stab / bar                                                                      | -<br>-                            | -<br>-                                                                                                           | -<br>-   | d<br>-                  | -<br>-           | -<br>-   |                                                                       |              | For the use of materials acc. to column 2 till 4 the regulations and limits of the respective standards have to be observed.<br>The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Notified Body in charge.<br>Bei Verwendung der Werkstoffe in Spalte 2 bis 4 sind die Festlegungen und Grenzen des jeweiligen Regelwerkes zu beachten.<br>Für die spezifischen Einsatzbedingungen der Werkstoffe ist die Zustimmung des Druckgeräteherstellers bzw. der zuständigen Notifizierten Stelle erforderlich. |
| 03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Warmfeste Stähle/ heat resisting steels<br>17 Mn 4 (1.0481)<br>20 Mn 5 (1.1133)                                                                                                                                                                                                   | EN<br>DIN                                       | 10222-2<br>17243*) | N, QT                                              | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -<br>-                            | 250<br>-                                                                                                         | -<br>-   | -<br>375                | -<br>-           | -<br>-   |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Warmfeste Stähle/ heat resisting steels<br>C 22.8 / P250GH (1.0460),<br>15 Mo 3 / 16Mo3 (1.5415),<br>13 CrMo 4 4 / 13CrMo4-5 (1.7335),<br>10CrMo9-10 (1.7380),<br>11CrMo9-10 (1.7383)<br>P280GH (1.0426)<br>P305GH (1.0436)<br>P295GH (1.0481)<br>X20CrMoV11-1 (1.4922)           | EN<br>DIN                                       | 10222-2<br>17243*) | N, QT                                              | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -<br>-                            | 500<br>-                                                                                                         | -<br>-   | -<br>750                | -<br>-           | -<br>-   |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Explanation / Erklärung: AT = solution annealed / Lösungsgeglüht NT = normalized and tempered / Normalgeglüht und angelassen N = normalized / Normalgeglüht S = stress relieved / Spannungsarmgeglüht TM = thermo-mech. treated / Thermomech. behandelt U = not annealed / ungeglüht<br>QT = quenched and tempered / vergütet CR = temperature controlled hot formed (controlled rolled) / temperatureregelt warmumgeformt A = annealed / weichgeglüht AR = as rolled / wie gewalzt<br>a = material designation in column 10 / Werkstoffbezeichnung in Spalte 10 b = delivery condition in column 10 or acc. to material specification / Lieferzustand in Spalte 10 bzw. gem. Werkstoffspezifikation c = object in column 10 / Prüfgegenstand in Spalte 10<br>d = dimensions acc. to technical rules / Abmessungen in den Techn. Regeln e = weight acc. to technical rules / Gewicht in den Techn. Regeln f = technical rules reference in column 10 / techn. Regeln in Spalte 10 |                                                                                                                                                                                                                                                                                   |                                                 |                    |                                                    |                                                                                 |                                   |                                                                                                                  |          |                         |                  |          |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

# Conformity Assessment Body for products, processes and services / Konformitätsbewertungsstelle für Produkte, Prozesse und Dienstleistungen



CAB-CBM-04\_E\_G\_Annex 1

Annex 1 of certificate for material manufacturer /  
Anlage 1 des Zertifikats als Hersteller von Werkstoffen

## Scope of approval - PED 2014/68/EU, Annex I, Section 4.3 / Geltungsbereich nach DGRL 2014/68/EU, Anhang I, Abschnitt 4.3

| Manufacturer / Name: Fomas S.p.A.<br>Hersteller: Street / Straße: Via Martiri della Liberazione, 17<br>City / Ort: 23875 Osnago (LC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |                               |                                                    |                                                                                 | Country / Land: IT       |            | Date / Datum rev. 0<br>2026-10-20 |                         | Annex 1 of certificate no. / Anlage 1 zum Zertifikat Nr. DGR-0036-QS-W 003/2003/MUC-04 von / dated 2026-10-20 |          |                                                                 |              |                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|--------------------------|------------|-----------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No. / lfd. Nr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Material designation<br>Material grade / Werkstoffbezeichnung<br>Werkstoff-Nr.                                                                                                                                                                                                                                                                                                                          | Material specification / Werkstoff-spezifikation |                               | Delivery condition / Lieferzustand / Code / Kürzel | Product description / Prüfgegenstand Erzeugnisform                              | Dimensions / Abmessungen |            |                                   |                         | Weight / Gewicht                                                                                              |          | Requirements Technical Rules / Prüfgrundlagen Technische Regeln |              | Report no. / Bericht Nr.: R-CBM-722424366-26 -00 dated / vom 2026-10-14<br><br>Remarks / Bemerkungen                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                         | Spec. / Art                                      | No. / Nr.                     |                                                    |                                                                                 | Thickness / Dicke [mm]   | from / von | to / bis                          | Diameter / Durchm. [mm] | from / von                                                                                                    | to / bis | 1=t<br>2=kg<br>↓                                                | value / Wert |                                                                                                                                                                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                                                                                                                                                                                                                                                                                                                                                                                                       | 3a                                               | 3b                            | 4                                                  | 5                                                                               | 6a                       | 6b         | 7a                                | 7b                      | 8a                                                                                                            | 8b       | 9a                                                              | 9b           | 10                                                                                                                                                                |
| 05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | X2CrMo18-9 (1.4307)<br>X2CrNi19-11 (1.4306)<br>X2CrNiN18-10 (1.4311)<br>X5CrNi18-10 (1.4301)<br>X6CrNi18-10 (1.4948)<br>X6CrNiTi18-10 (1.4541)<br>X2CrNiMo17-12-2 (1.4404)<br>X2CrNiMoN17-11-2 (1.4406)<br>X5CrNiMo17-12-2 (1.4401)<br>X3CrNiMo13-4 (1.4313)<br>X6CrNiNb18-10 (1.4550)<br>X7CrNiNb18-10 (1.4912)<br>X2CrNiMoN22-5-3 (1.4462)<br>X2CrNiMoN25-7-4 (1.4410)<br>X2CrNiMoCuWN25-7-4 (1.4501) | EN<br>DIN<br>DIN                                 | 10222-5<br>17440*)<br>17460*) | AT                                                 | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -                        | 500        | -                                 | -                       | -                                                                                                             | -        |                                                                 |              | *) To fulfil essential safety requirements of PED Annex I, for each material acc. to non harmonised standards a Particular Material Appraisal (PMA) is mandatory. |
| 06*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12CrMo19-5 (1.7362)                                                                                                                                                                                                                                                                                                                                                                                     | TÜVV                                             | 007/3                         | N, QT                                              | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -                        | 250        | -                                 | -                       | -                                                                                                             | -        |                                                                 |              |                                                                                                                                                                   |
| 07*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | X20CrMoV11-1 (1.4922)                                                                                                                                                                                                                                                                                                                                                                                   | TÜVV                                             | 110                           | QT                                                 | Nahtl. Hohlkörper<br>Seamless hollow                                            | -                        | 160        | -                                 | -                       | -                                                                                                             | -        |                                                                 |              |                                                                                                                                                                   |
| 08*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | P250GH/C 22.8 (1.0460)                                                                                                                                                                                                                                                                                                                                                                                  | TÜVV                                             | 350/3                         | N                                                  | Flansch / flange                                                                | -                        | 250        | -                                 | -                       | -                                                                                                             | -        |                                                                 |              |                                                                                                                                                                   |
| <b>Explanation / Erklärung:</b> AT = solution annealed / Lösungsgelüht NT = normalized and tempererd / Normalgelüht und angelassen N = normalized / Normalgelüht S = stress relieved / Spannungsarmgelüht TM = thermo-mech. treated / Thermomech. behandelt U = not annealed / ungelüht<br>QT = quenched and tempered / vergütet CR = temperature controlled hot formed (controlled rolled) / temperatureregelt warmumgeformt A = annealed / weichgelüht AR = as rolled / wie gewalzt<br>a = material designation in column 10 / Werkstoffbezeichnung in Spalte 10 b = delivery condition in column 10 or acc. to material specification / Lieferzustand in Spalte 10 bzw. gem. Werkstoffspezifikation c = object in column 10 / Prüfgegenstand in Spalte 10<br>d = dimensions acc. to technical rules / Abmessungen in den Techn. Regeln e = weight acc. to technical rules / Gewicht in den Techn. Regeln f = technical rules reference in column 10 / techn. Regeln in Spalte 10 |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |                               |                                                    |                                                                                 |                          |            |                                   |                         |                                                                                                               |          |                                                                 |              |                                                                                                                                                                   |

# Conformity Assessment Body for products, processes and services / Konformitätsbewertungsstelle für Produkte, Prozesse und Dienstleistungen



CAB-CBM-04\_E\_G\_Annex 1

Annex 1 of certificate for material manufacturer /  
Anlage 1 des Zertifikats als Hersteller von Werkstoffen

## Scope of approval - PED 2014/68/EU, Annex I, Section 4.3 / Geltungsbereich nach DGRL 2014/68/EU, Anhang I, Abschnitt 4.3

| Manufacturer / Name: Fomas S.p.A.<br>Hersteller: Street / Straße: Via Martiri della Liberazione, 17<br>City / Ort: 23875 Osnago (LC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                 |                                                  |                                          |                                                    |                                                                                 | Country / Land: IT       |     | Date / Datum rev. 0<br>2026-10-20 |     | Annex 1 of certificate no. / Anlage 1 zum Zertifikat Nr. DGR-0036-QS-W 003/2003/MUC-04 von / dated 2026-10-20 |              |                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|--------------------------|-----|-----------------------------------|-----|---------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No. / lfd. Nr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Material designation<br>Material grade / Werkstoffbezeichnung<br>Werkstoff-Nr.                                  | Material specification / Werkstoff-spezifikation |                                          | Delivery condition / Lieferzustand / Code / Kürzel | Product description / Prüfgegenstand Erzeugnisform                              | Dimensions / Abmessungen |     |                                   |     | Weight / Gewicht                                                                                              |              | Requirements Technical Rules / Prüfgrundlagen Technische Regeln |           | Report no. / Bericht Nr.: R-CBM-722424366-26 -00 dated / vom 2026-10-14<br><br>Remarks / Bemerkungen                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 | Spec. / Art                                      | No. / Nr.                                |                                                    |                                                                                 | Thickness / Dicke [mm]   |     | Diameter / Durchm. [mm]           |     | 1=t<br>2=kg                                                                                                   | value / Wert | Spec. / Art                                                     | No. / Nr. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                                                                                                               | 3a                                               | 3b                                       | 4                                                  | 5                                                                               | 6a                       | 6b  | 7a                                | 7b  | 8a                                                                                                            | 8b           | 9a                                                              | 9b        | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | P355NH (1.0565), P355NL1 (1.0566)<br>P355QH1 (1.0571)<br>P355QL1 (1.8868)<br>P420QH (1.8936)<br>P460QH (1.8871) | EN<br>TÜVV<br>TÜVV<br>TÜVV                       | 10222-4<br>354/3*)<br>356/3*)<br>357/3*) | N, QT                                              | Schmiedestück/ forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar  | -                        | 400 | -                                 | -   | -                                                                                                             | -            |                                                                 |           | *) To fulfil essential safety requirements of PED Annex I, for each material acc. to non harmonised standards a Particular Material Appraisal (PMA) is mandatory.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 10*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | C 22.3 (1.0427)                                                                                                 | TÜVV                                             | 364                                      | N                                                  | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -                        | 150 | -                                 | -   | -                                                                                                             | -            |                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 11*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15NiCuMoNb5 / WB 36 (1.6368)                                                                                    | TÜVV                                             | 377/3                                    | QT                                                 | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -                        | 650 | -                                 | -   | -                                                                                                             | -            |                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 12*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | X3CrNiMo13-4 (1.4313)                                                                                           | TÜVV                                             | 395                                      | QT                                                 | Schmiedestück / forging<br>Stab / bar                                           | -                        | -   | -                                 | 450 | -                                                                                                             | -            |                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 13*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20MnMoNi5-5 (1.6310)                                                                                            | TÜVV                                             | 401/3                                    | QT                                                 | Schmiedestück / forging<br>Stab / bar                                           | 150                      | 650 | -                                 | -   | -                                                                                                             | -            |                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 14*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12CrMo910 (1.7375)                                                                                              | TÜVV                                             | 404/3                                    | QT                                                 | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -                        | 540 | -                                 | -   | -                                                                                                             | -            |                                                                 |           | For the use of materials acc. to column 2 till 4 the regulations and limits of the respective standards have to be observed.<br>The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Notified Body in charge.<br>Bei Verwendung der Werkstoffe in Spalte 2 bis 4 sind die Festlegungen und Grenzen des jeweiligen Regelwerkes zu beachten.<br>Für die spezifischen Einsatzbedingungen der Werkstoffe ist die Zustimmung des Druckgeräteherstellers bzw. der zuständigen Notifizierten Stelle erforderlich. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 |                                                  |                                          |                                                    |                                                                                 | -                        | -   | -                                 | 750 | -                                                                                                             | -            |                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Explanation / Erklärung: AT = solution annealed / Lösungsgelüht NT = normalized and tempererd / Normalgeglüht und angelassen N = normalized / Normalgeglüht S = stress relieved / Spannungsarmgeglüht TM = thermo-mech. treated / Thermomech. behandelt U = not annealed / ungeglüht<br>QT = quenched and tempered / vergütet CR = temperature controlled hot formed (controlled rolled) / temperatureregelt warmumgeformt A = annealed / weichgeglüht AR = as rolled / wie gewalzt<br>a = material designation in column 10 / Werkstoffbezeichnung in Spalte 10 b = delivery condition in column 10 or acc. to material specification / Lieferzustand in Spalte 10 bzw. gem. Werkstoffspezifikation c = object in column 10 / Prüfgegenstand in Spalte 10<br>d = dimensions acc. to technical rules / Abmessungen in den Techn. Regeln e = weight acc. to technical rules / Gewicht in den Techn. Regeln f = technical rules reference in column 10 / techn. Regeln in Spalte 10 |                                                                                                                 |                                                  |                                          |                                                    |                                                                                 |                          |     |                                   |     |                                                                                                               |              |                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

# Conformity Assessment Body for products, processes and services / Konformitätsbewertungsstelle für Produkte, Prozesse und Dienstleistungen



CAB-CBM-04\_E\_G\_Annex 1

Annex 1 of certificate for material manufacturer /  
Anlage 1 des Zertifikats als Hersteller von Werkstoffen

## Scope of approval - PED 2014/68/EU, Annex I, Section 4.3 / Geltungsbereich nach DGRL 2014/68/EU, Anhang I, Abschnitt 4.3

| Manufacturer / Name: Fomas S.p.A.<br>Hersteller: Street / Straße: Via Martiri della Liberazione, 17<br>City / Ort: 23875 Osnago (LC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                   |                                                  |               |                                                    |                                                                                 | Country / Land: IT       |            | Date / Datum rev. 0<br>2026-10-20 |                         | Annex 1 of certificate no. / Anlage 1 zum Zertifikat Nr. DGR-0036-QS-W 003/2003/MUC-04<br>von / dated 2026-10-20 |          |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------|----------------------------------------------------|---------------------------------------------------------------------------------|--------------------------|------------|-----------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No. / lfd. Nr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Material designation<br>Material grade / Werkstoffbezeichnung<br>Werkstoff-Nr.                                                                                                    | Material specification / Werkstoff-spezifikation |               | Delivery condition / Lieferzustand / Code / Kürzel | Product description / Prüfgegenstand Erzeugnisform                              | Dimensions / Abmessungen |            |                                   |                         | Weight / Gewicht                                                                                                 |          | Requirements<br>Technical Rules / Prüfgrundlagen<br>Technische Regeln |              | Report no. / Bericht Nr.: R-CBM-722424366-26 -00<br>dated / vom 2026-10-14<br><br>Remarks / Bemerkungen                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                   | Spec. / Art                                      | No. / Nr.     |                                                    |                                                                                 | Thickness / Dicke [mm]   | from / von | to / bis                          | Diameter / Durchm. [mm] | from / von                                                                                                       | to / bis | 1=t<br>2=kg<br>↓                                                      | value / Wert |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                                                                                                                                                                 | 3a                                               | 3b            | 4                                                  | 5                                                                               | 6a                       | 6b         | 7a                                | 7b                      | 8a                                                                                                               | 8b       | 9a                                                                    | 9b           | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 15*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15 MnNi 6 3 (1.6210)                                                                                                                                                              | TÜVV                                             | 427/3         | N                                                  | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | 50                       | 320        | -                                 | -                       | -                                                                                                                | -        |                                                                       |              | *) To fulfil essential safety requirements of PED Annex I, for each material acc. to non harmonised standards a Particular Material Appraisal (PMA) is mandatory.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 16*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20MnMoNi4-5 (1.6311)                                                                                                                                                              | TÜVV                                             | 440/3         | QT                                                 | Schmiedestück / forging<br>Stab / bar                                           | -                        | -          | -                                 | 320                     | -                                                                                                                | -        |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | X 6 CrNiTi 18 10 S (1.4533)<br>X 6 CrNiNb 18 10 S (1.4553)<br>X 6 CrNiMoTi 17 12 2 S (1.4579)<br>X6CrNiTi18-10 (1.4541),<br>X6CrNiNb18-10 (1.4550),<br>X6CrNiMoTi17-12-2 (1.4571) | TÜVV                                             | 451*)         | AT                                                 | Schmiedestück / forging<br>nahtl. Hohlkörper /<br>seamless hollow<br>Stab / bar | -                        | d          | -                                 | -                       | -                                                                                                                | -        |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                   | EN                                               | 10222-5       |                                                    |                                                                                 | -                        | -          | -                                 | d                       | -                                                                                                                | -        |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                   | EN                                               | 10272         |                                                    |                                                                                 |                          |            |                                   |                         |                                                                                                                  |          |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 18*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | C 22.8 S 1 (1.1338)                                                                                                                                                               | TÜVV                                             | 453           | N                                                  | Schmiedestück / forging<br>Stab / bar                                           | -                        | 500        | -                                 | -                       | -                                                                                                                | -        |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                   |                                                  |               |                                                    |                                                                                 | -                        | -          | -                                 | 500                     | -                                                                                                                | -        |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | X10CrMoVNb9-1 / F 91 (1.4903)                                                                                                                                                     | EN                                               | 10222-2       | QT                                                 | Schmiedestück / forging<br>Stab / bar                                           | -                        | 500        | -                                 | -                       | -                                                                                                                | -        |                                                                       |              | For the use of materials acc. to column 2 till 4 the regulations and limits of the respective standards have to be observed.<br>The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Notified Body in charge.<br>Bei Verwendung der Werkstoffe in Spalte 2 bis 4 sind die Festlegungen und Grenzen des jeweiligen Regelwerkes zu beachten.<br>Für die spezifischen Einsatzbedingungen der Werkstoffe ist die Zustimmung des Druckgeräteherstellers bzw. der zuständigen Notifizierten Stelle erforderlich. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                   | TÜVV                                             | 511/3         |                                                    |                                                                                 | -                        | -          | -                                 | 500                     | -                                                                                                                | -        |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 20*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | AISI 4130 (Modified)                                                                                                                                                              |                                                  | ES4.<br>41320 | QT                                                 | Schmiedestück / forging<br>Stab / bar                                           | -                        | d          | -                                 | -                       | -                                                                                                                | -        |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                   |                                                  |               |                                                    |                                                                                 | -                        | -          | -                                 | d                       | -                                                                                                                | -        |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12Ni14 (1.5637)<br>13MnNi6-3 (1.6217)                                                                                                                                             | EN                                               | 10222-3       | QT<br>N, NT                                        | Forging/ seamless hollow<br>bar                                                 | -                        | 500        | -                                 | -                       | -                                                                                                                | -        |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Explanation / Erklärung: AT = solution annealed / Lösungsgeglüht NT = normalized and temperend / Normalgeglüht und angelassen N = normalized / Normalgeglüht S = stress relieved / Spannungsarmgeglüht TM = thermo-mech. treated / Thermomech. behandelt U = not annealed / ungeglüht<br>QT = quenched and tempered / vergütet CR = temperature controlled hot formed (controlled rolled) / temperatureregelt warmumgeformt A = annealed / weichgeglüht AR = as rolled / wie gewalzt<br>a = material designation in column 10 / Werkstoffbezeichnung in Spalte 10 b = delivery condition in column 10 or acc. to material specification / Lieferzustand in Spalte 10 bzw. gem. Werkstoffspezifikation c = object in column 10 / Prüfgegenstand in Spalte 10<br>d = dimensions acc. to technical rules / Abmessungen in den Techn. Regeln e = weight acc. to technical rules / Gewicht in den Techn. Regeln f = technical rules reference in column 10 / techn. Regeln in Spalte 10 |                                                                                                                                                                                   |                                                  |               |                                                    |                                                                                 |                          |            |                                   |                         |                                                                                                                  |          |                                                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Explanation / Erklärung:** AT = solution annealed / Lösungsgelüht NT = normalized and tempererd / Normalgelüht und angelassen N = normalized / Normalgelüht S = stress relieved / Spannungsarmgelüht TM = thermo-mech. treated / Thermomech. behandelt U = not annealed / ungelüht  
QT = quenched and tempered / vergütet CR = temperature controlled hot formed (controlled rolled) / temperatureregelt warmumgeformt A = annealed / weichgelüht AR = as rolled / wie gewalzt  
a = material designation in column 10 / Werkstoffbezeichnung in Spalte 10 b = delivery condition in column 10 or acc. to material specification / Lieferzustand in Spalte 10 bzw. gem. Werkstoffspezifikation c = object in column 10 / Prüfgegenstand in Spalte 10  
d = dimensions acc. to technical rules / Abmessungen in den Techn. Regeln e = weight acc. to technical rules / Gewicht in den Techn. Regeln f = technical rules reference in column 10 / techn. Regeln in Spalte 10