



**Z2N MAKİNE PAZARLAMA  
SANAYİ VE TİCARET LTD. ŞTİ.**

# **Vebeo Fittings Catalog**

**2021**



**Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard**

**Technical Features**

|                                 |                                        |
|---------------------------------|----------------------------------------|
| <b>Approval for Railways</b>    | <b>: TÜV AUSTRIA</b>                   |
| <b>Certificate no</b>           | <b>: 18-IS-0020-TAT-18-CC-0597</b>     |
| <b>Reference Rules based on</b> | <b>: UIC 803-35 (Connetion type A)</b> |

**Allowable working pressures**

The fitting is warranted for any pnematic application with working pressures up to 20 bars.

|           |         |   |      |    |      |    |          |    |    |      |    |    |
|-----------|---------|---|------|----|------|----|----------|----|----|------|----|----|
| φTube, mm | 6       | 8 | 10,2 | 12 | 13,5 | 16 | 17,2     | 18 | 20 | 21,3 | 22 | 25 |
| Inch BS   |         |   | 1/8  |    | 1/4  |    | 3/8      |    |    | 1/2  |    |    |
| Pressure  | 200 bas |   |      |    |      |    | 100 bars |    |    |      |    |    |

|           |         |    |    |      |         |       |       |      |
|-----------|---------|----|----|------|---------|-------|-------|------|
| φTube, mm | 26,9    | 28 | 30 | 33,7 | 38      | 42,4  | 48,3  | 60,3 |
| Inch BS   | 3/4     |    |    | 1    |         | 1-1/4 | 1-1/2 | 2    |
| Pressure  | 80 bars |    |    |      | 40 bars |       |       |      |

This pressure information is give for standard temperature limits and working conditions without any pressue shoks after respecting the assembly instructions. Safety factor with regards to static pressure: 2,5



**Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard**

**Technical Features**

**Material of Body / Nut**

| Code of Material | Method of Production  | Material                          |
|------------------|-----------------------|-----------------------------------|
| M1               | Machining steel       | 11SMn37 or 11SMnPb37 or 11SMnPb30 |
|                  | Forged Steel          | C40 or C45                        |
| M2               | Machining Aluminium   | AlCuPbMg (AW-2030)                |
|                  | Forged Aluminium      | AlCuMgSi (AW-2017A)               |
| M3               | Brass                 | CuZn39Pb2                         |
|                  | Forged Brass          | CuZn39Pb2                         |
| M4               | 304 L Stainless Steel | Z3Cn19-09                         |
|                  | 316 L Stainless Steel | Z3Cnd17-11-02                     |

NOTE: Washer and spring material is independent of the table

**Material of O-ring**

| Code of O-Ring | Material of O-ring | Temperature    |
|----------------|--------------------|----------------|
| O1             | NBR 60             | -30°C / +120°C |
| O2             | NBR 70             | -30°C / +120°C |
| O3             | NBR 80             | -30°C / +120°C |
| O4             | NBR 90             | -30°C / +120°C |

NOTE: O-ring material can be used according to different working area



## Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard

### Technical Features

#### Coating

Has successfully passed the 5% salt concentration resistance test for 800 hours according to the EN ISO 9227 standard of the surface coating.

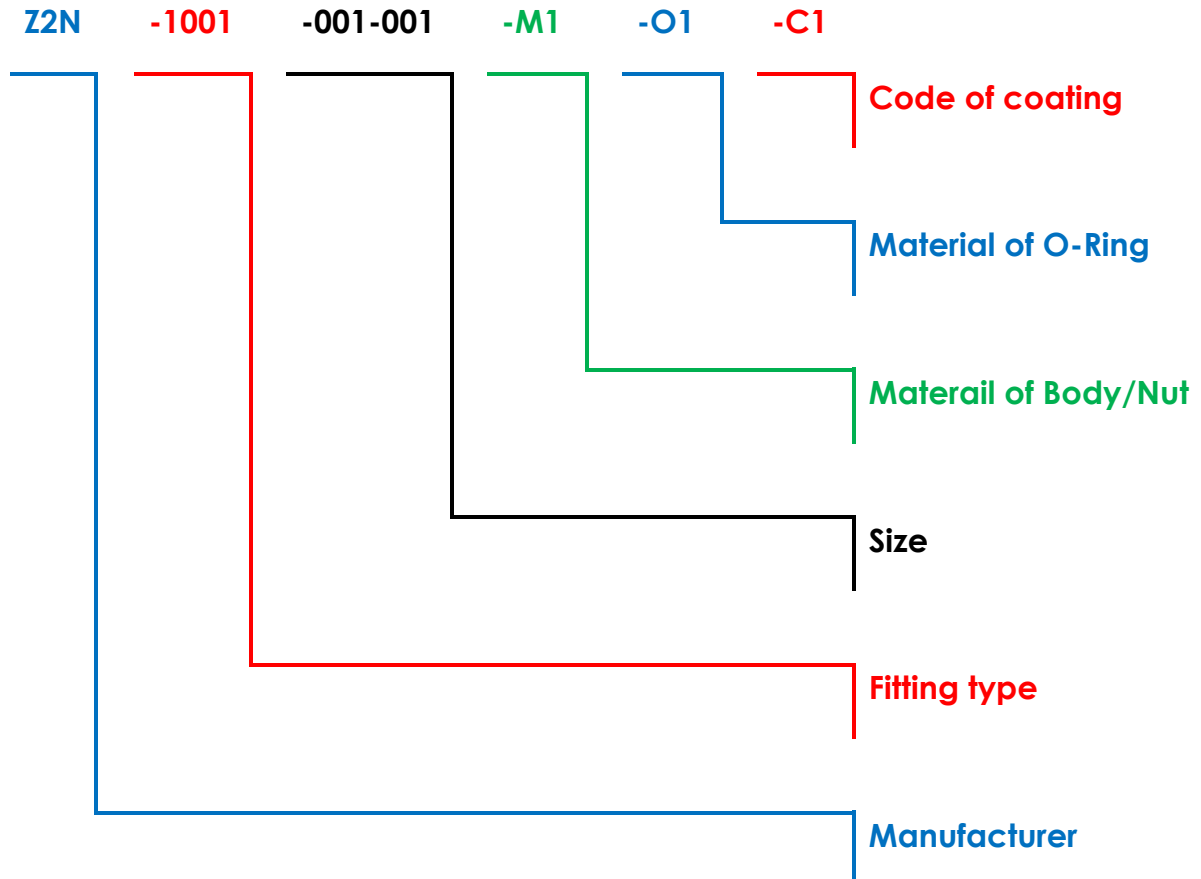
| Code of Coating | Coating    | Colour | Thickness     | Description | Standard |
|-----------------|------------|--------|---------------|-------------|----------|
| C1              | Zn-Chromed | white  | $\geq 12 \mu$ | Fe/Zn 12 C  | ISO 2081 |
| C2              | Zn-Chromed | white  | $\geq 12 \mu$ | Fe/Zn 12 D  | ISO 2081 |

NOTE: Coating type can be used according to different working area

#### For ordering:

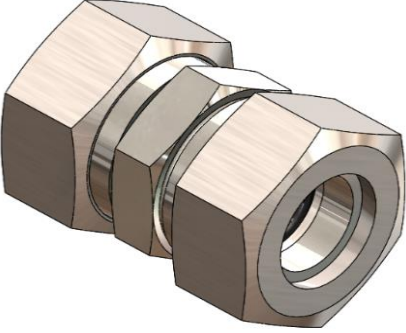
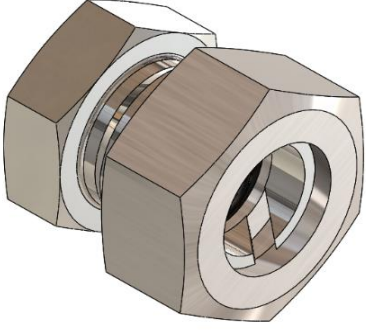
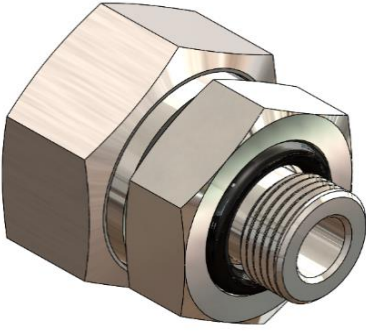
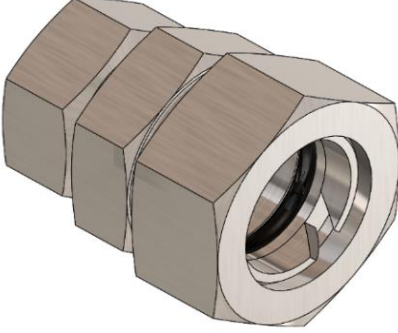
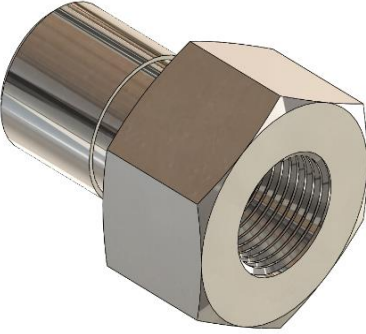
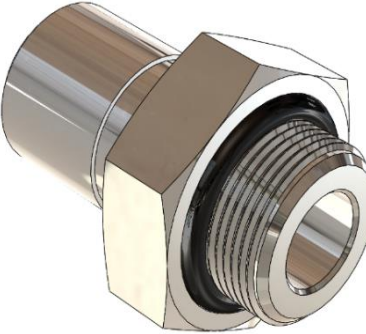
Z2N-1001-001-001-M1-O1-C1

#### Description of Order Codes:



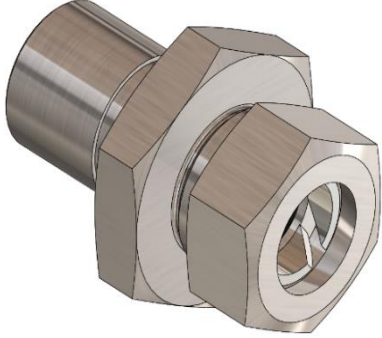
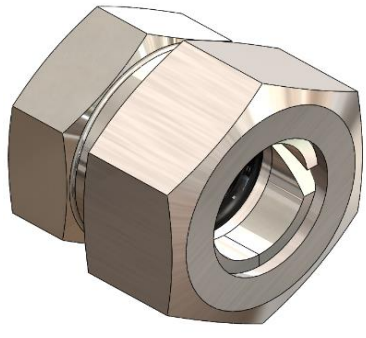
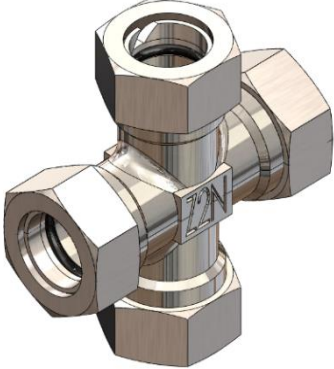
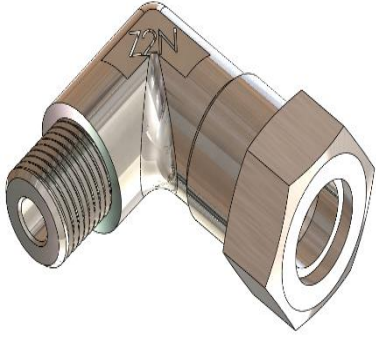
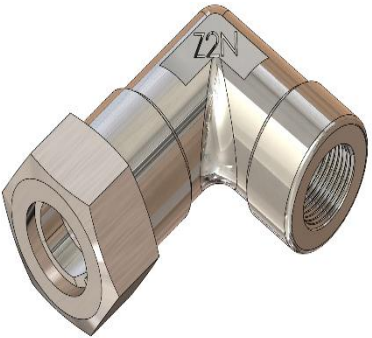
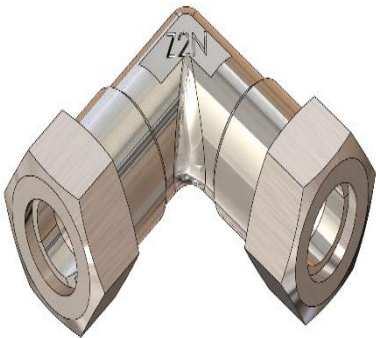


**Index (Fitting types)**

|                                                                                                                                        |                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <p>1001 - U<br/>Straight Union</p>                    | <p>1002 - UF<br/>Parallel Female Union</p>          |
| <p>1003 - UM<br/>Male Union</p>                     | <p>1004 - UR<br/>Reducing Union</p>               |
| <p>1005 - AF<br/>Parallel Female Stern Adaptor</p>  | <p>1006 - AM<br/>Parallel Male Stern Adaptor</p>  |

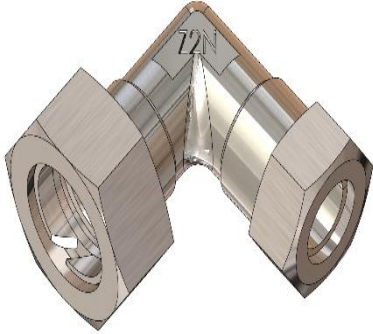
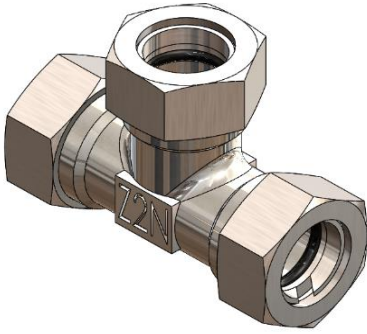
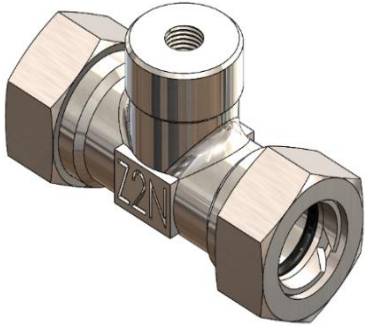
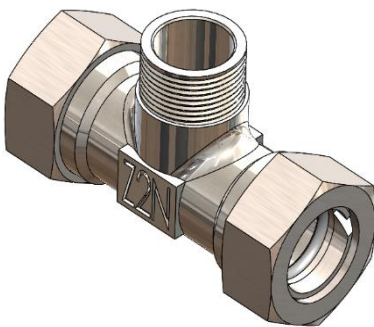
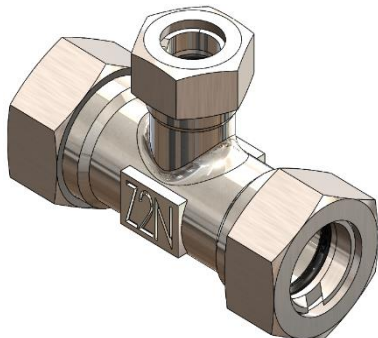
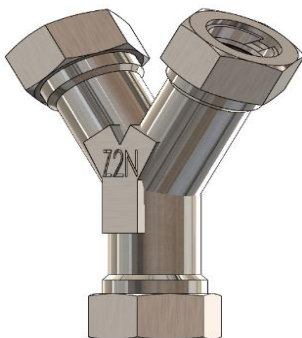


**Index (Fitting types)**

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <p><b>1007 - AUR</b><br/>Reducing Union Adaptor</p>                                 | <p><b>1008 - BO</b><br/>End Tube Plug</p>                                            |
|    |    |
| <p><b>1009 - C</b><br/>Equal Cross</p>                                              | <p><b>1010 - EM</b><br/>Parallel Male Elbow</p>                                      |
|  |  |
| <p><b>1011 - EF</b><br/>Parallel Female Elbow</p>                                   | <p><b>1012 - E</b><br/>Equal Elbow</p>                                               |
|  |  |

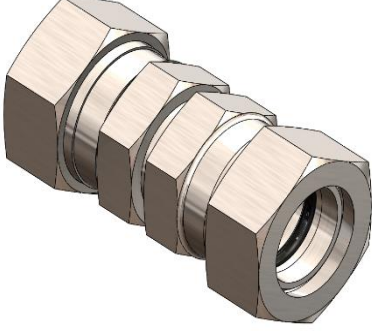
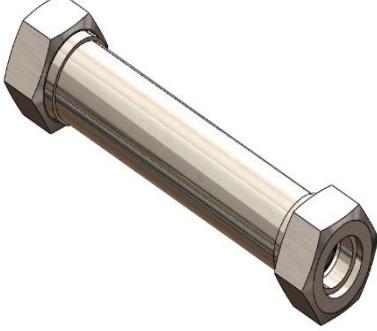
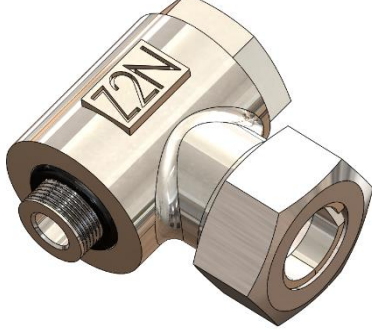
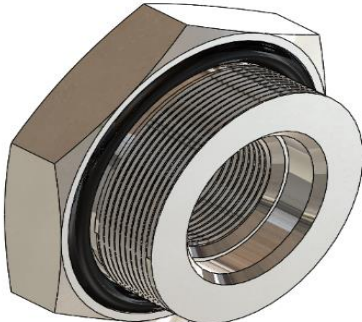


**Index (Fitting types)**

|                                                                                                                                     |                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>1013 - ER</b><br/>Reducing Elbow</p>         | <p><b>1014 - T</b><br/>Equal Tee</p>              |
| <p><b>1015 - TF</b><br/>Parallel Female Tee</p>  | <p><b>1016 - TMF</b><br/>Parallel Male Tee</p>  |
| <p><b>1017 - TR</b><br/>Reducing Tee</p>         | <p><b>1018 - Y</b><br/>Equal Y Banch</p>        |

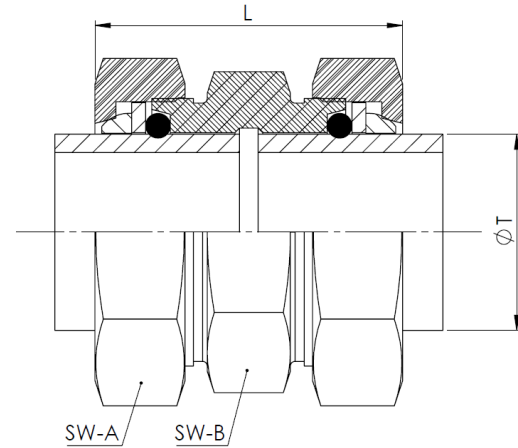
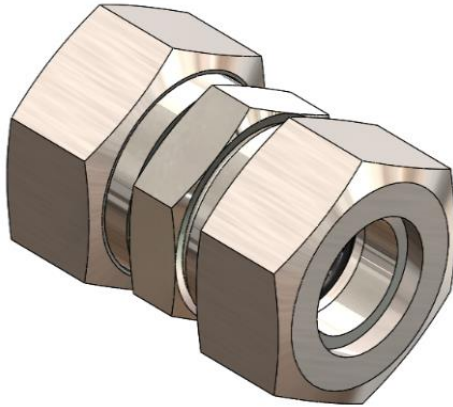


**Index (Fitting types)**

|                                                                                                                        |                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <p>1019 - PC<br/>Bulkhead Union</p>   | <p>1020 - EM<br/>Parallel Male Elbow</p>      |
| <p>1021 - OB<br/>Cap</p>            | <p>1022 - OR<br/>Parallel Single Banjo</p>  |
| <p>1023 - ELC<br/>Pipe Fitting</p>  | <p>1024<br/>Redüksiyon Nipel</p>            |



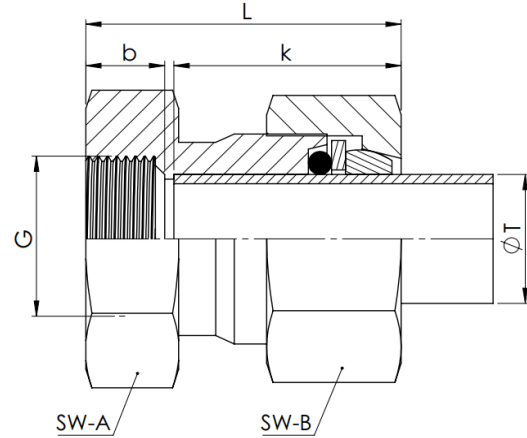
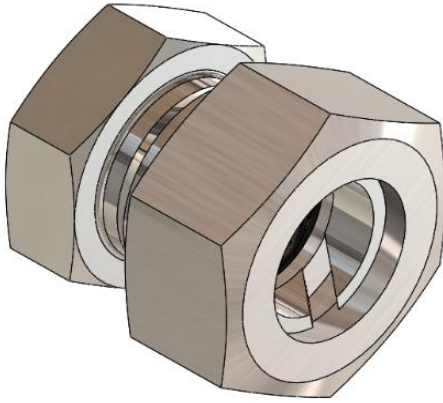
**Fitting type: 1001 / U – Straight union**



| Size | $\phi T$ ; pipe |      | L  | SW-A | SW-B | Order Code       | Traceability No |
|------|-----------------|------|----|------|------|------------------|-----------------|
|      | inch            | mm   |    |      |      |                  |                 |
| 001  | 1/8             | 10,2 | 37 | 22   | 19   | Z2N-1001-001-001 | Z2N 111         |
| 002  | 1/4             | 13,5 | 38 | 27   | 24   | Z2N-1001-002-002 | Z2N 122         |
| 003  | 3/8             | 17,2 | 43 | 30   | 27   | Z2N-1001-003-003 | Z2N 133         |
| 004  | 1/2             | 21,3 | 46 | 36   | 32   | Z2N-1001-004-004 | Z2N 144         |
| 005  | 3/4             | 26,9 | 48 | 46   | 41   | Z2N-1001-005-005 | Z2N 155         |
| 006  | 1               | 33,7 | 55 | 50   | 46   | Z2N-1001-006-006 | Z2N 166         |
| 007  | 1-1/4           | 42,4 | 63 | 65   | 60   | Z2N-1001-007-007 | Z2N 177         |
| 008  | 1-1/2           | 48,3 | 67 | 70   | 65   | Z2N-1001-008-008 | Z2N 188         |
| 009  | 2               | 60,3 | 78 | 85   | 80   | Z2N-1001-009-009 | Z2N 199         |



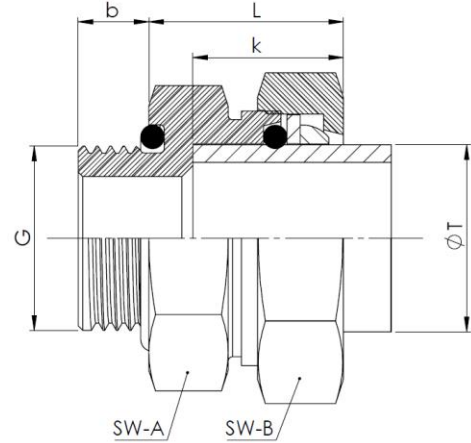
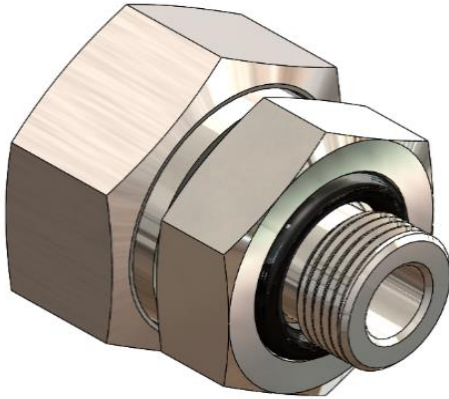
**Fitting type: 1002 / UF – Parallel female union**



| Size | G:<br>Thread | b    | φT; pipe |      | L  | SW-<br>A | SW-<br>B | Order Code       | Traceability<br>No |
|------|--------------|------|----------|------|----|----------|----------|------------------|--------------------|
|      |              |      | inch     | mm   |    |          |          |                  |                    |
| 002  | G1/4         | 10   | 1/8      | 10,2 | 29 | 19       | 22       | Z2N-1002-002-001 | Z2N 221            |
| 002  | G1/4         | 12   | ¼        | 13,5 | 28 | 24       | 27       | Z2N-1002-002-002 | Z2N 222            |
| 002  | G1/4         | 12   | 3/8      | 17,2 | 32 | 27       | 30       | Z2N-1002-002-003 | Z2N 223            |
| 002  | G1/4         | 12   | ½        | 21,3 | 35 | 32       | 36       | Z2N-1002-002-004 | Z2N 224            |
| 003  | G3/8         | 12   | ¼        | 13,5 | 28 | 24       | 27       | Z2N-1002-003-002 | Z2N 232            |
| 003  | G3/8         | 12   | 3/8      | 17,2 | 32 | 27       | 30       | Z2N-1002-003-003 | Z2N 233            |
| 003  | G3/8         | 12   | ½        | 21,3 | 35 | 32       | 36       | Z2N-1002-003-004 | Z2N 234            |
| 004  | G1/2         | 12,5 | ¼        | 13,5 | 28 | 24       | 27       | Z2N-1002-004-002 | Z2N 242            |
| 004  | G1/2         | 12,5 | 3/8      | 17,2 | 32 | 27       | 30       | Z2N-1002-004-003 | Z2N 243            |
| 004  | G1/2         | 12,5 | ½        | 21,3 | 35 | 32       | 36       | Z2N-1002-004-004 | Z2N 244            |
| 004  | G1/2         | 12,5 | ¾        | 26,9 | 37 | 41       | 46       | Z2N-1002-004-005 | Z2N 245            |
| 004  | G1/2         | 12,5 | 1        | 33,7 | 44 | 46       | 50       | Z2N-1002-004-006 | Z2N 246            |
| 005  | G3/4         | 13,5 | ½        | 21,3 | 35 | 32       | 36       | Z2N-1002-005-004 | Z2N 254            |
| 005  | G3/4         | 13,5 | ¾        | 26,9 | 37 | 41       | 46       | Z2N-1002-005-005 | Z2N 255            |
| 005  | G3/4         | 13,5 | 1        | 33,7 | 44 | 46       | 50       | Z2N-1002-005-006 | Z2N 256            |
| 006  | G1           | 17   | ½        | 21,3 | 35 | 32       | 36       | Z2N-1002-006-004 | Z2N 264            |
| 006  | G1           | 17   | ¾        | 26,9 | 37 | 41       | 46       | Z2N-1002-006-005 | Z2N 265            |
| 006  | G1           | 17   | 1        | 33,7 | 44 | 46       | 50       | Z2N-1002-006-006 | Z2N 266            |
| 006  | G1           | 17   | 1-1/4    | 42,4 | 49 | 60       | 65       | Z2N-1002-006-007 | Z2N 267            |
| 007  | G1-1/4       | 17,5 | ½        | 21,3 | 35 | 32       | 36       | Z2N-1002-007-004 | Z2N 274            |
| 007  | G1-1/4       | 17,5 | ¾        | 26,9 | 37 | 41       | 46       | Z2N-1002-007-005 | Z2N 275            |
| 007  | G1-1/4       | 17,5 | 1        | 33,7 | 44 | 46       | 50       | Z2N-1002-007-006 | Z2N 276            |
| 007  | G1-1/4       | 17,5 | 1-1/4    | 42,4 | 49 | 60       | 65       | Z2N-1002-007-007 | Z2N 277            |



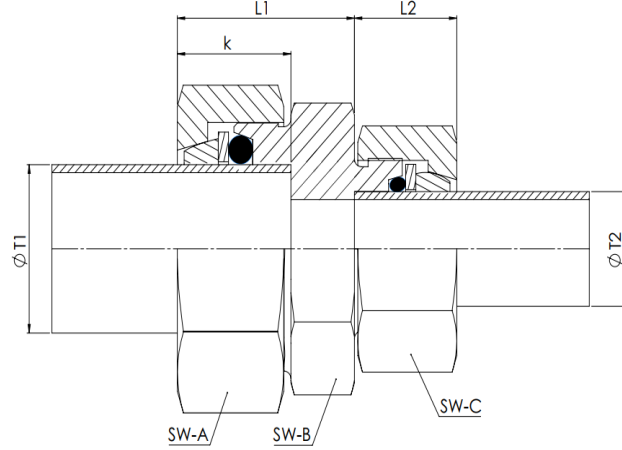
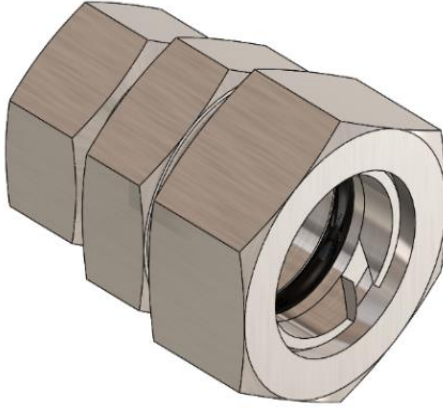
**Fitting type: 1003 / UM - Male union**



| Size | G:<br>Thread | b  | øT; pipe |      | k  | L  | SW-A | SW-B | Order Code       | Traceability No |
|------|--------------|----|----------|------|----|----|------|------|------------------|-----------------|
|      |              |    | inch     | mm   |    |    |      |      |                  |                 |
| 002  | G1/4         | 9  | 1/8      | 10,2 | 17 | 22 | 19   | 22   | Z2N-1003-002-001 | Z2N 321         |
| 002  | G1/4         | 11 | ¼        | 13,5 | 19 | 24 | 24   | 27   | Z2N-1003-002-002 | Z2N 322         |
| 002  | G1/4         | 11 | 3/8      | 17,2 | 21 | 26 | 27   | 30   | Z2N-1003-002-003 | Z2N 323         |
| 002  | G1/4         | 11 | ½        | 21,3 | 23 | 29 | 32   | 36   | Z2N-1003-002-004 | Z2N 324         |
| 003  | G3/8         | 11 | ¼        | 13,5 | 19 | 24 | 24   | 27   | Z2N-1003-002-002 | Z2N 322         |
| 003  | G3/8         | 11 | 3/8      | 17,2 | 21 | 26 | 27   | 30   | Z2N-1003-003-003 | Z2N 333         |
| 003  | G3/8         | 11 | ½        | 21,3 | 23 | 29 | 32   | 36   | Z2N-1003-003-004 | Z2N 334         |
| 004  | G1/2         | 12 | ¼        | 13,5 | 19 | 24 | 24   | 27   | Z2N-1003-004-002 | Z2N 342         |
| 004  | G1/2         | 12 | 3/8      | 17,2 | 21 | 26 | 27   | 30   | Z2N-1003-004-003 | Z2N 343         |
| 004  | G1/2         | 12 | ½        | 21,3 | 23 | 29 | 32   | 36   | Z2N-1003-004-004 | Z2N 344         |
| 004  | G1/2         | 12 | ¾        | 26,9 | 24 | 30 | 41   | 46   | Z2N-1003-004-005 | Z2N 345         |
| 004  | G1/2         | 12 | 1        | 33,7 | 27 | 34 | 46   | 50   | Z2N-1003-004-006 | Z2N 346         |
| 005  | G3/4         | 14 | ½        | 21,3 | 23 | 29 | 32   | 36   | Z2N-1003-005-004 | Z2N 354         |
| 005  | G3/4         | 14 | ¾        | 26,9 | 24 | 30 | 41   | 46   | Z2N-1003-005-005 | Z2N 355         |
| 005  | G3/4         | 14 | 1        | 33,7 | 27 | 34 | 46   | 50   | Z2N-1003-005-006 | Z2N 356         |
| 006  | G1           | 16 | ½        | 21,3 | 23 | 29 | 32   | 36   | Z2N-1003-006-004 | Z2N 364         |
| 006  | G1           | 16 | ¾        | 26,9 | 24 | 30 | 41   | 46   | Z2N-1003-006-005 | Z2N 365         |
| 006  | G1           | 16 | 1        | 33,7 | 27 | 34 | 46   | 50   | Z2N-1003-006-006 | Z2N 366         |
| 006  | G1           | 16 | 1-1/4    | 42,4 | 31 | 40 | 60   | 65   | Z2N-1003-006-007 | Z2N 367         |
| 007  | G1-1/4       | 16 | ½        | 21,3 | 23 | 29 | 32   | 36   | Z2N-1003-007-004 | Z2N 374         |
| 007  | G1-1/4       | 16 | ¾        | 26,9 | 24 | 30 | 41   | 46   | Z2N-1003-007-005 | Z2N 375         |
| 007  | G1-1/4       | 16 | 1        | 33,7 | 27 | 34 | 46   | 50   | Z2N-1003-007-006 | Z2N 376         |
| 007  | G1-1/4       | 16 | 1-1/4    | 42,4 | 31 | 40 | 60   | 65   | Z2N-1003-007-007 | Z2N 377         |
| 008  | G1-1/2       | 16 | 1        | 33,7 | 27 | 34 | 46   | 50   | Z2N-1003-008-006 | Z2N 386         |
| 008  | G1-1/2       | 16 | 1-1/4    | 42,4 | 31 | 40 | 60   | 65   | Z2N-1003-008-007 | Z2N 387         |
| 008  | G1-1/2       | 16 | 1-1/2    | 48,3 | 33 | 42 | 65   | 70   | Z2N-1003-008-008 | Z2N 388         |
| 009  | G2           | 18 | 2        | 60,3 | 39 | 49 | 80   | 85   | Z2N-1003-009-009 | Z2N 399         |



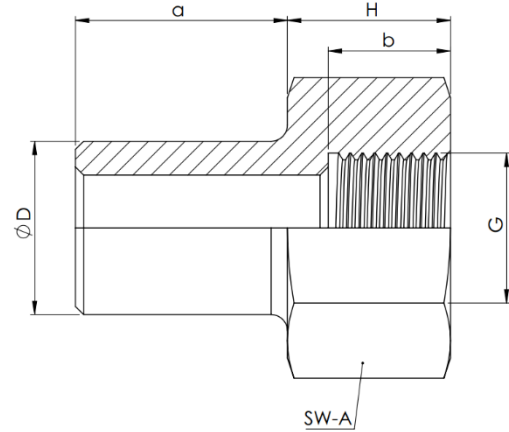
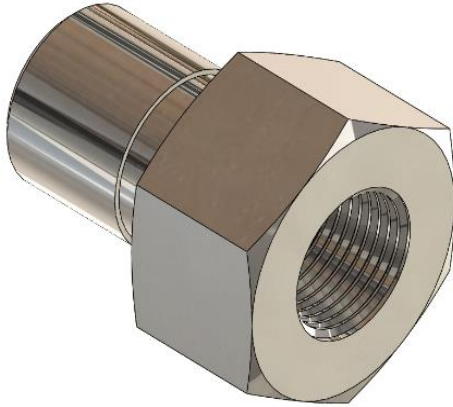
**Fitting type: 1004 / UR – Reducing union**



| Size | ØT1; pipe |      | ØT2; pipe |      | k  | L1 | L2 | SW<br>-A | SW<br>-B | SW<br>-C | Order Code       | Traceability No |
|------|-----------|------|-----------|------|----|----|----|----------|----------|----------|------------------|-----------------|
|      | inch      | mm   | inch      | 10,2 |    |    |    |          |          |          |                  |                 |
| 002  | ¼         | 13,5 | 1/8       | 13,5 | 18 | 22 | 15 | 27       | 24       | 22       | Z2N-1004-002-001 | Z2N 421         |
| 003  | 3/8       | 17,2 | ¼         | 13,5 | 21 | 25 | 15 | 30       | 27       | 27       | Z2N-1004-003-003 | Z2N 433         |
| 004  | ½         | 21,3 | 1/8       | 13,5 | 22 | 22 | 15 | 36       | 32       | 22       | Z2N-1004-004-001 | Z2N 441         |
| 004  | ½         | 21,3 | ¼         | 13,5 | 22 | 27 | 15 | 36       | 32       | 27       | Z2N-1004-004-002 | Z2N 442         |
| 004  | ½         | 21,3 | 3/8       | 17,2 | 22 | 27 | 18 | 36       | 32       | 30       | Z2N-1004-004-003 | Z2N 443         |
| 005  | ¾         | 26,9 | ¼         | 13,5 | 23 | 29 | 15 | 46       | 41       | 27       | Z2N-1004-005-002 | Z2N 452         |
| 005  | ¾         | 26,9 | ½         | 21,3 | 23 | 29 | 18 | 46       | 41       | 36       | Z2N-1004-005-004 | Z2N 454         |
| 006  | 1         | 33,7 | ¼         | 13,5 | 27 | 33 | 15 | 50       | 46       | 27       | Z2N-1004-006-002 | Z2N 462         |
| 006  | 1         | 33,7 | ½         | 21,3 | 27 | 33 | 18 | 50       | 46       | 36       | Z2N-1004-006-004 | Z2N 464         |
| 006  | 1         | 33,7 | ¾         | 26,9 | 27 | 33 | 19 | 50       | 46       | 46       | Z2N-1004-006-005 | Z2N 465         |
| 007  | 1-1/4     | 42,4 | ¾         | 26,9 | 31 | 39 | 19 | 65       | 60       | 46       | Z2N-1004-007-005 | Z2N 475         |
| 007  | 1-1/4     | 42,4 | 1         | 33,7 | 31 | 39 | 22 | 65       | 60       | 50       | Z2N-1004-007-006 | Z2N 476         |
| 008  | 1-1/2     | 48,3 | 1-1/4     | 42,4 | 33 | 41 | 23 | 70       | 65       | 65       | Z2N-1004-008-007 | Z2N 487         |
| 009  | 2         | 60,3 | 1         | 33,7 | 38 | 49 | 22 | 85       | 80       | 50       | Z2N-1004-009-006 | Z2N 496         |
| 009  | 2         | 60,3 | 1-1/2     | 48,3 | 38 | 49 | 25 | 85       | 80       | 70       | Z2N-1004-009-008 | Z2N 498         |



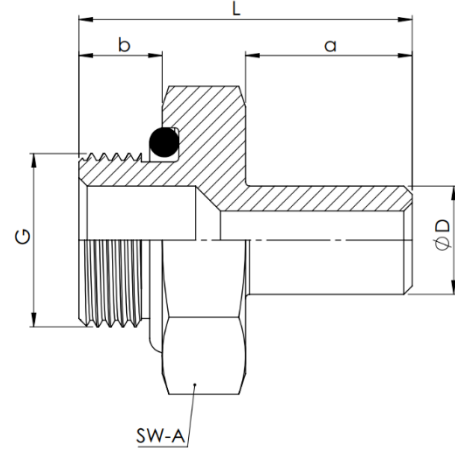
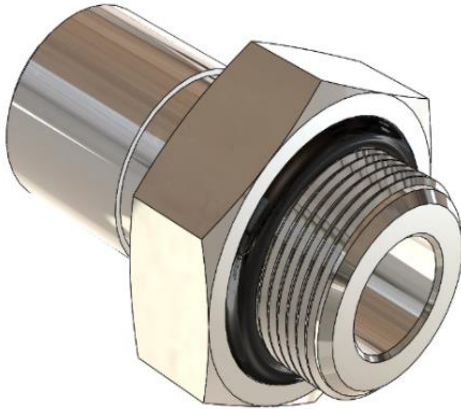
**Fitting type: 1005 / AF –Parallel female stern adaptor**



| Size | G:<br>Thread | b    | φD    |      | a  | H    | SW-A | Order code       | Traceability<br>No |
|------|--------------|------|-------|------|----|------|------|------------------|--------------------|
|      |              |      | inch  | mm   |    |      |      |                  |                    |
| 002  | G1/4         | 10   | 1/8   | 10,2 | 18 | 15   | 22   | Z2N-1005-002-001 | Z2N 521            |
| 002  | G1/4         | 10   | ¼     | 13,5 | 20 | 15   | 27   | Z2N-1005-002-002 | Z2N 522            |
| 002  | G1/4         | 10   | 3/8   | 17,2 | 24 | 17   | 30   | Z2N-1005-002-003 | Z2N 523            |
| 002  | G1/4         | 10   | ½     | 21,3 | 26 | 19,5 | 36   | Z2N-1005-002-004 | Z2N 524            |
| 003  | G3/8         | 12   | ¼     | 13,5 | 20 | 15   | 27   | Z2N-1005-003-002 | Z2N 532            |
| 003  | G3/8         | 12   | 3/8   | 17,2 | 24 | 17   | 30   | Z2N-1005-003-003 | Z2N 533            |
| 003  | G3/8         | 12   | ½     | 21,3 | 26 | 19,5 | 36   | Z2N-1005-003-004 | Z2N 534            |
| 004  | G1/2         | 13,5 | ¼     | 13,5 | 20 | 15   | 27   | Z2N-1005-004-002 | Z2N 542            |
| 004  | G1/2         | 13,5 | 3/8   | 17,2 | 24 | 17   | 30   | Z2N-1005-004-003 | Z2N 543            |
| 004  | G1/2         | 13,5 | ½     | 21,3 | 26 | 19,5 | 36   | Z2N-1005-004-004 | Z2N 544            |
| 004  | G1/2         | 13,5 | ¾     | 26,9 | 30 | 21   | 46   | Z2N-1005-004-005 | Z2N 545            |
| 004  | G1/2         | 13,5 | 1     | 33,7 | 34 | 25,5 | 50   | Z2N-1005-004-006 | Z2N 546            |
| 005  | G3/4         | 15   | ½     | 21,3 | 26 | 19,5 | 36   | Z2N-1005-005-004 | Z2N 554            |
| 005  | G3/4         | 15   | ¾     | 26,9 | 30 | 21   | 46   | Z2N-1005-005-005 | Z2N 555            |
| 005  | G3/4         | 15   | 1     | 33,7 | 34 | 25,5 | 50   | Z2N-1005-005-006 | Z2N 556            |
| 006  | G1           | 18,5 | ½     | 21,3 | 26 | 19,5 | 36   | Z2N-1005-006-004 | Z2N 564            |
| 006  | G1           | 18,5 | ¾     | 26,9 | 30 | 21   | 46   | Z2N-1005-006-005 | Z2N 565            |
| 006  | G1           | 18,5 | 1     | 33,7 | 34 | 25,5 | 50   | Z2N-1005-006-006 | Z2N 566            |
| 006  | G1           | 18,5 | 1-1/4 | 42,4 | 40 | 29,5 | 65   | Z2N-1005-006-007 | Z2N 567            |
| 007  | G1-1/4       | 20,5 | 1     | 33,7 | 34 | 25,5 | 50   | Z2N-1005-007-006 | Z2N 576            |
| 007  | G1-1/4       | 20,5 | 1-1/4 | 42,4 | 40 | 29,5 | 65   | Z2N-1005-007-007 | Z2N 577            |
| 007  | G1-1/4       | 20,5 | 1-1/2 | 48,3 | 42 | 30,5 | 70   | Z2N-1005-007-008 | Z2N 578            |
| 008  | G1-1/2       | 21,5 | 1-1/2 | 48,3 | 42 | 30,5 | 70   | Z2N-1005-008-008 | Z2N 588            |
| 009  | G2           | 23,5 | 2     | 60,3 | 49 | 35,5 | 85   | Z2N-1005-009-009 | Z2N 599            |



**Fitting type: 1006 / AM –Parallel male stern adaptor**

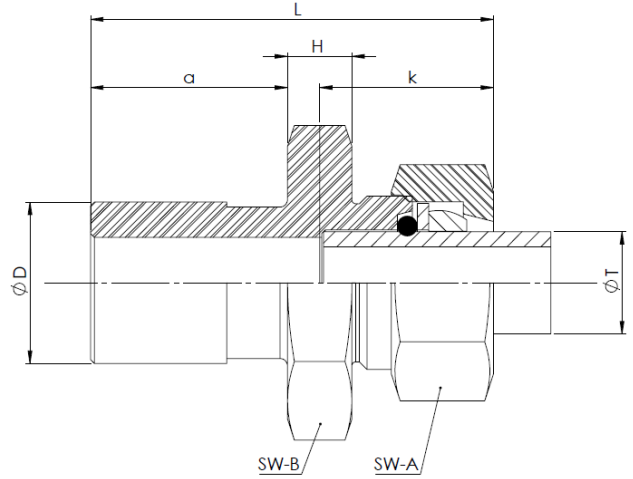
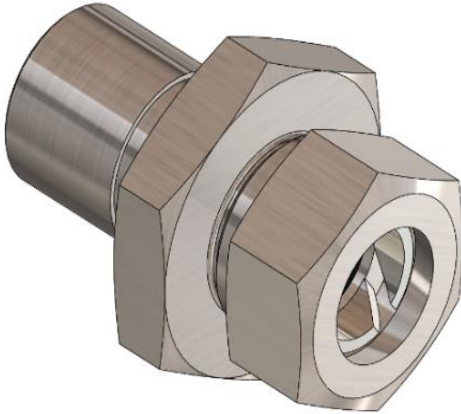


| Size | G:<br>Thread | b  | φD    |      | a  | L  | SW-<br>A | Order code       | Traceability<br>No |
|------|--------------|----|-------|------|----|----|----------|------------------|--------------------|
|      |              |    | inch  | mm   |    |    |          |                  |                    |
| 002  | G1/4         | 8  | 1/8   | 10,2 | 18 | 33 | 22       | Z2N-1006-002-001 | Z2N 621            |
| 002  | G1/4         | 8  | ¼     | 13,5 | 20 | 35 | 22       | Z2N-1006-002-002 | Z2N 622            |
| 003  | G3/8         | 8  | ¼     | 13,5 | 20 | 35 | 22       | Z2N-1006-003-002 | Z2N 632            |
| 003  | G3/8         | 8  | 3/8   | 17,2 | 24 | 39 | 24       | Z2N-1006-003-003 | Z2N 633            |
| 004  | G1/2         | 10 | ¼     | 13,5 | 20 | 35 | 22       | Z2N-1006-004-002 | Z2N 642            |
| 004  | G1/2         | 10 | 3/8   | 17,2 | 24 | 39 | 24       | Z2N-1006-004-003 | Z2N 643            |
| 004  | G1/2         | 10 | ½     | 21,3 | 26 | 45 | 32       | Z2N-1006-004-004 | Z2N 644            |
| 004  | G1/2         | 10 | ¾     | 26,9 | 30 | 53 | 36       | Z2N-1006-004-005 | Z2N 645            |
| 004  | G1/2         | 10 | 1     | 33,7 | 34 | 59 | 46       | Z2N-1006-004-006 | Z2N 646            |
| 005  | G3/4         | 14 | ½     | 21,3 | 26 | 45 | 32       | Z2N-1006-005-004 | Z2N 654            |
| 005  | G3/4         | 14 | ¾     | 26,9 | 30 | 53 | 36       | Z2N-1006-005-005 | Z2N 655            |
| 005  | G3/4         | 14 | 1     | 33,7 | 34 | 59 | 46       | Z2N-1006-005-006 | Z2N 656            |
| 006  | G1           | 14 | ½     | 21,3 | 26 | 45 | 32       | Z2N-1006-006-004 | Z2N 664            |
| 006  | G1           | 14 | ¾     | 26,9 | 30 | 53 | 36       | Z2N-1006-006-005 | Z2N 665            |
| 006  | G1           | 14 | 1     | 33,7 | 34 | 59 | 46       | Z2N-1006-006-006 | Z2N 666            |
| 006  | G1           | 14 | 1-1/4 | 42,4 | 40 | 72 | 60       | Z2N-1006-006-007 | Z2N 667            |
| 007  | G1-1/4       | 16 | ¾     | 26,9 | 30 | 53 | 36       | Z2N-1006-007-005 | Z2N 675            |
| 007  | G1-1/4       | 16 | 1     | 33,7 | 34 | 59 | 46       | Z2N-1006-007-006 | Z2N 676            |
| 007  | G1-1/4       | 16 | 1-1/4 | 42,4 | 40 | 72 | 60       | Z2N-1006-007-007 | Z2N 677            |
| 007  | G1-1/4       | 16 | 1-1/2 | 48,3 | 42 | 75 | 65       | Z2N-1006-007-008 | Z2N 678            |
| 008  | G1-1/2       | 16 | 1-1/2 | 48,3 | 42 | 75 | 65       | Z2N-1006-008-008 | Z2N 688            |
| 009  | G2           | 18 | 2     | 60,3 | 49 | 83 | 75       | Z2N-1006-009-009 | Z2N 699            |



**Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard**

**Fitting type: 1007 / AUR –Reducing union adaptor**

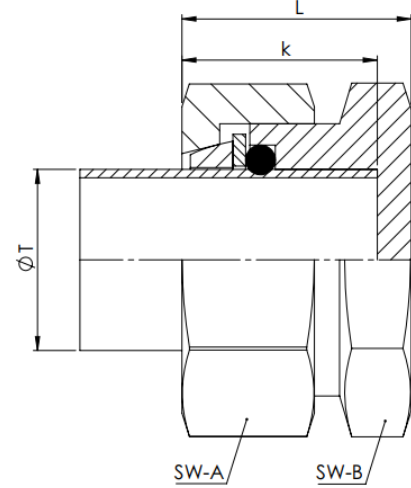
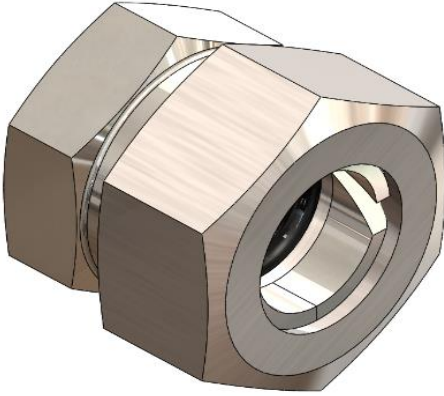


| Size | ØD    |      | a  | L  | ØT; pipe |      | k  | H  | SW<br>-A | SW<br>-B | Order code       | Traceability<br>No |
|------|-------|------|----|----|----------|------|----|----|----------|----------|------------------|--------------------|
|      | inch  | mm   |    |    | inch     | mm   |    |    |          |          |                  |                    |
| 003  | 3/8   | 17,2 | 24 | 47 | 3/8      | 17,2 | 19 | 7  | 27       | 24       | Z2N-1007-003-003 | Z2N 733            |
| 004  | 1/2   | 21,3 | 26 | 51 | 1/2      | 21,3 | 21 | 7  | 30       | 27       | Z2N-1007-004-004 | Z2N 744            |
| 005  | 3/4   | 26,9 | 30 | 58 | 3/4      | 26,9 | 23 | 9  | 36       | 32       | Z2N-1007-005-005 | Z2N 755            |
| 006  | 1     | 33,7 | 34 | 63 | 1        | 33,7 | 24 | 10 | 46       | 41       | Z2N-1007-006-006 | Z2N 766            |
| 007  | 1-1/4 | 42,4 | 40 | 73 | 1-1/4    | 42,4 | 27 | 11 | 50       | 46       | Z2N-1007-007-007 | Z2N 777            |
| 008  | 1-1/2 | 48,3 | 42 | 81 | 1-1/2    | 48,3 | 31 | 16 | 65       | 60       | Z2N-1007-008-008 | Z2N 788            |
| 009  | 2     | 60,3 | 49 | 91 | 2        | 60,3 | 33 | 16 | 70       | 65       | Z2N-1007-009-009 | Z2N 799            |



**Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard**

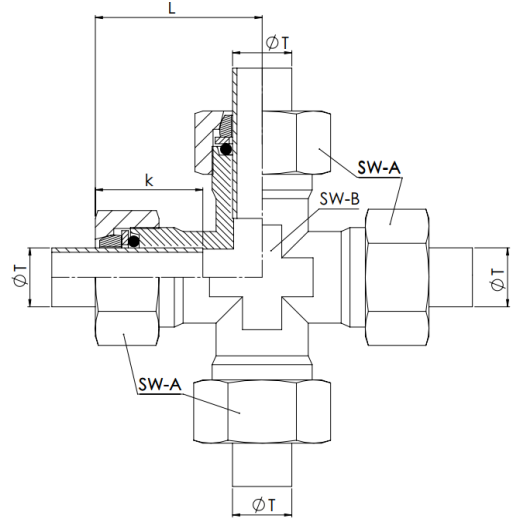
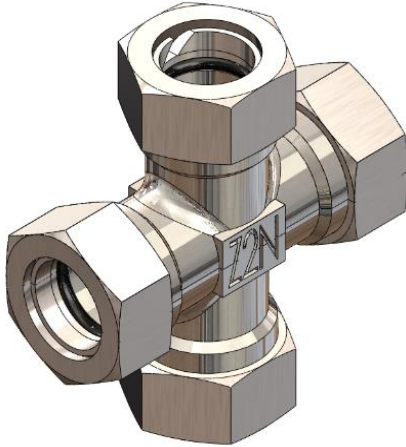
**Fitting type: 1008 / BO –End tube plug**



| Size | ØT; pipe |      | k  | L  | SW-A | SW-B | Order code       | Traceability No |
|------|----------|------|----|----|------|------|------------------|-----------------|
|      | inch     | mm   |    |    |      |      |                  |                 |
| 001  | 1/8      | 10,2 | 17 | 19 | 22   | 19   | Z2N-1008-001-002 | Z2N 812         |
| 002  | ¼        | 13,5 | 18 | 21 | 27   | 24   | Z2N-1008-002-002 | Z2N 822         |
| 003  | 3/8      | 17,2 | 20 | 23 | 30   | 27   | Z2N-1008-003-003 | Z2N 833         |
| 004  | ½        | 21,3 | 21 | 25 | 36   | 32   | Z2N-1008-004-004 | Z2N 834         |
| 005  | ¾        | 26,9 | 22 | 25 | 46   | 41   | Z2N-1008-005-005 | Z2N 855         |
| 006  | 1        | 33,7 | 24 | 28 | 50   | 46   | Z2N-1008-006-006 | Z2N 866         |
| 007  | 1-1/4    | 42,4 | 28 | 33 | 65   | 60   | Z2N-1008-007-007 | Z2N 877         |
| 008  | 1-1/2    | 48,3 | 30 | 35 | 70   | 65   | Z2N-1008-008-008 | Z2N 888         |
| 009  | 2        | 60,3 | 34 | 41 | 85   | 80   | Z2N-1008-009-009 | Z2N 899         |



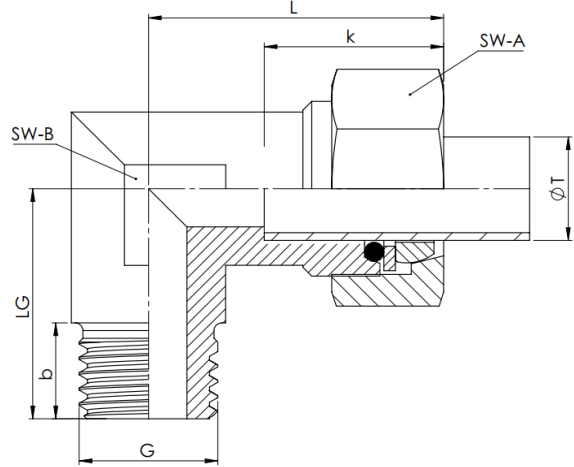
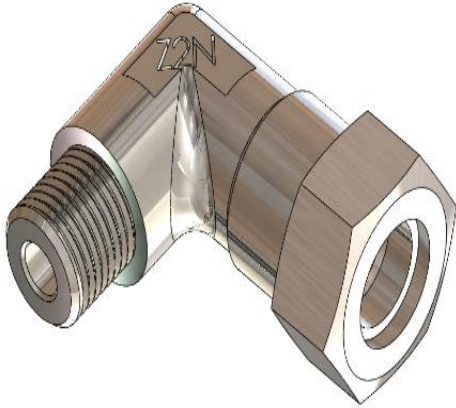
**Fitting type: 1009 / C –Equal cross**



| Size | ØT; pipe |      | k  | L  | SW-A | SW-B | Order code       |
|------|----------|------|----|----|------|------|------------------|
|      | inch     | mm   |    |    |      |      |                  |
| 001  | 1/8      | 10,2 | 19 | 28 | 22   | 17   | Z2N-1009-001-002 |
| 002  | ¼        | 13,5 | 23 | 34 | 27   | 19   | Z2N-1009-002-002 |
| 003  | 3/8      | 17,2 | 24 | 38 | 30   | 24   | Z2N-1009-003-003 |
| 004  | ½        | 21,3 | 25 | 43 | 36   | 30   | Z2N-1009-004-004 |
| 005  | ¾        | 26,9 | 26 | 47 | 46   | 36   | Z2N-1009-005-005 |
| 006  | 1        | 33,7 | 30 | 56 | 50   | 46   | Z2N-1009-006-006 |
| 007  | 1-1/4    | 42,4 | 35 | 61 | 65   | 50   | Z2N-1009-007-007 |
| 008  | 1-1/2    | 48,3 | 36 | 69 | 70   | 60   | Z2N-1009-008-008 |
| 009  | 2        | 60,3 | 47 | 80 | 85   | 70   | Z2N-1009-009-009 |



**Fitting type: 1010 / EM –Parallel male elbow**

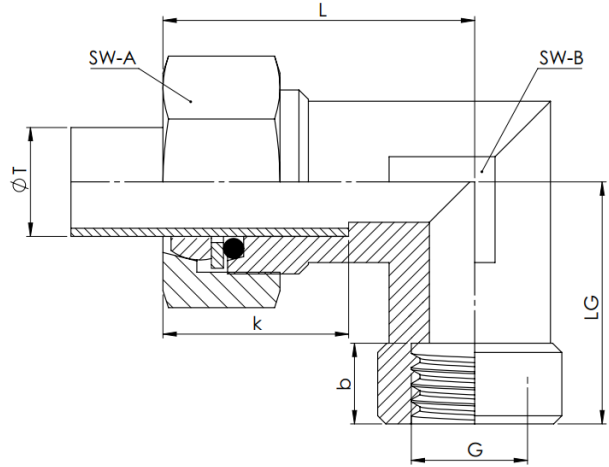
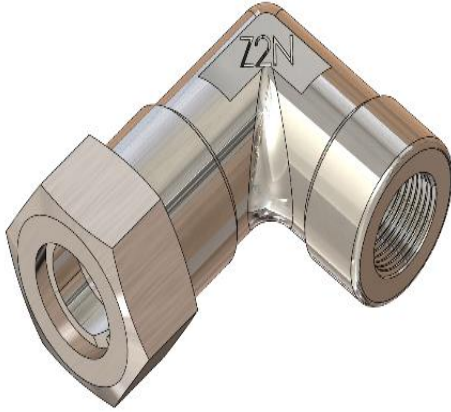


| Size | G:<br>Thread | b  | LG   | øT; pipe |      | k    | L  | SW-A | SW-B | Order code       |
|------|--------------|----|------|----------|------|------|----|------|------|------------------|
|      |              |    |      | inch     | mm   |      |    |      |      |                  |
| 001  | G1/4         | 8  | 30   | 1/8      | 10,2 | 11,5 | 32 | 22   | 19   | Z2N-1010-001-001 |
| 002  | G1/4         | 8  | 30   | ¼        | 13,5 | 11   | 34 | 27   | 19   | Z2N-1010-002-002 |
| 003  | G3/8         | 8  | 37   | 3/8      | 17,2 | 14   | 38 | 30   | 24   | Z2N-1010-003-003 |
| 004  | G1/2         | 10 | 42,5 | ½        | 21,3 | 18   | 43 | 36   | 30   | Z2N-1010-004-004 |
| 005  | G3/4         | 14 | 49   | ¾        | 26,9 | 21   | 47 | 46   | 36   | Z2N-1010-005-005 |
| 006  | G1           | 14 | 55   | 1        | 33,7 | 21   | 56 | 50   | 46   | Z2N-1010-006-006 |
| 007  | G1-1/4       | 16 | 64   | 1-1/4    | 42,4 | 31   | 61 | 65   | 50   | Z2N-1010-007-007 |



**Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard**

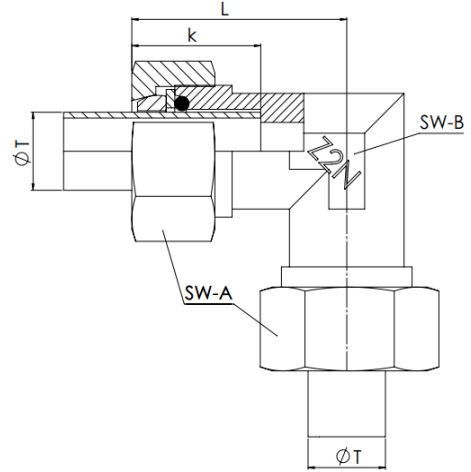
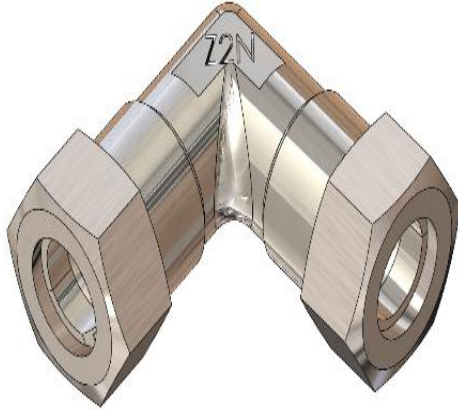
**Fitting type: 1011 / EF –Parallel female elbow**



| Size | G:<br>Thread | b  | LG | øT; pipe |      | k    | L    | SW-A | SW-B | Order code       |
|------|--------------|----|----|----------|------|------|------|------|------|------------------|
|      |              |    |    | inch     | mm   |      |      |      |      |                  |
| 001  | G1/4         | 9  | 30 | 1/8      | 10,2 | 11,5 | 32   | 22   | 19   | Z2N-1011-001-002 |
| 002  | G1/4         | 11 | 30 | ¼        | 13,5 | 15   | 36   | 27   | 24   | Z2N-1011-002-002 |
| 003  | G3/8         | 11 | 31 | 3/8      | 17,2 | 19   | 40   | 30   | 30   | Z2N-1011-003-003 |
| 004  | G1/2         | 12 | 36 | ½        | 21,3 | 18   | 40   | 36   | 30   | Z2N-1011-004-004 |
| 005  | G3/4         | 14 | 44 | ¾        | 26,9 | 21   | 43   | 46   | 36   | Z2N-1011-005-005 |
| 006  | G1           | 16 | 51 | 1        | 33,7 | 29   | 51   | 50   | 50   | Z2N-1011-006-006 |
| 007  | G1-1/4       | 16 | 56 | 1-1/4    | 42,4 | 31   | 57,5 | 65   | 60   | Z2N-1011-007-007 |



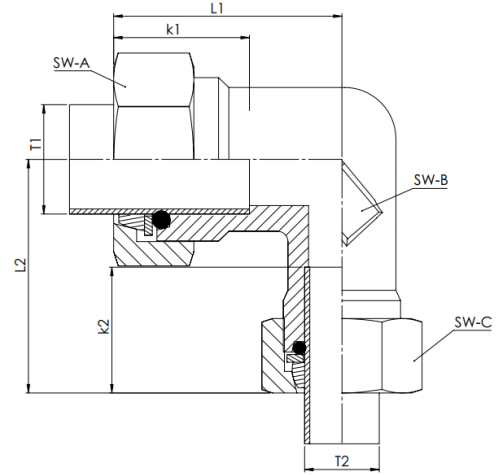
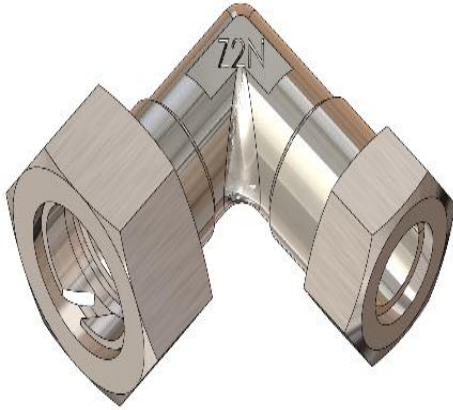
**Fitting type: 1012 / E –Equal elbow**



| Size | ØT; pipe |      | k  | L  | SW-A | SW-B | Order code       |
|------|----------|------|----|----|------|------|------------------|
|      | inch     | mm   |    |    |      |      |                  |
| 001  | 1/8      | 10,2 | 19 | 28 | 22   | 17   | Z2N-1012-001-002 |
| 002  | ¼        | 13,5 | 23 | 34 | 27   | 19   | Z2N-1012-002-002 |
| 003  | 3/8      | 17,2 | 24 | 38 | 30   | 24   | Z2N-1012-003-003 |
| 004  | ½        | 21,3 | 25 | 43 | 36   | 30   | Z2N-1012-004-004 |
| 005  | ¾        | 26,9 | 26 | 47 | 46   | 36   | Z2N-1012-005-005 |
| 006  | 1        | 33,7 | 30 | 56 | 50   | 46   | Z2N-1012-006-006 |
| 007  | 1-1/4    | 42,4 | 35 | 61 | 65   | 50   | Z2N-1012-007-007 |
| 008  | 1-1/2    | 48,3 | 36 | 69 | 70   | 60   | Z2N-1012-008-008 |
| 009  | 2        | 60,3 | 47 | 80 | 85   | 70   | Z2N-1012-009-009 |



**Fitting type: 1013 / ER –Reducing elbow**

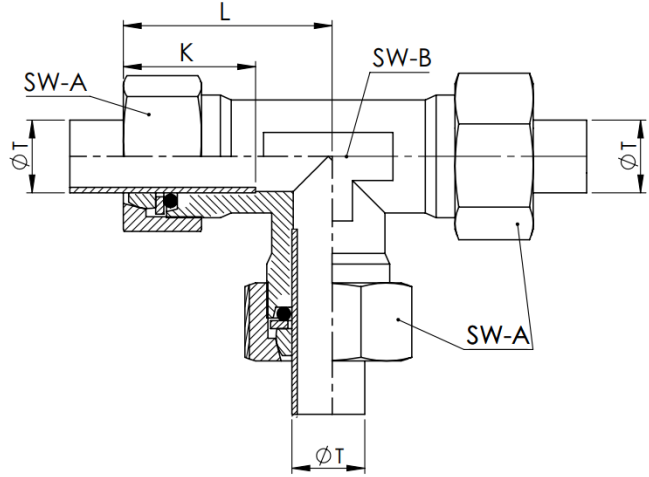
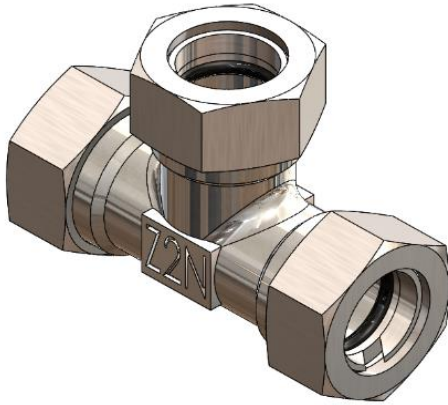


| Size | $\phi T1$ ; pipe |      | K1 | L1 | SW-A | SW-B | $\phi T2$ ; pipe |      | K2 | L2 | SW-C | Order code       |
|------|------------------|------|----|----|------|------|------------------|------|----|----|------|------------------|
|      | inch             | mm   |    |    |      |      | inch             | mm   |    |    |      |                  |
| 002  | 1/4              | 13,5 | 23 | 34 | 27   | 19   | 1/8              | 10,2 | 19 | 32 | 22   | Z2N-1013-002-001 |
| 003  | 3/8              | 17,2 | 24 | 38 | 30   | 24   | 1/8              | 10,2 | 19 | 32 | 22   | Z2N-1013-003-001 |
| 003  | 3/8              | 17,2 | 24 | 38 | 30   | 24   | 1/4              | 13,5 | 23 | 34 | 27   | Z2N-1013-003-002 |
| 004  | 1/2              | 21,3 | 25 | 43 | 36   | 30   | 1/4              | 13,5 | 23 | 34 | 27   | Z2N-1013-004-002 |
| 004  | 1/2              | 21,3 | 25 | 43 | 36   | 30   | 3/8              | 17,2 | 24 | 38 | 30   | Z2N-1013-004-003 |
| 005  | 3/4              | 26,9 | 26 | 47 | 46   | 36   | 1/4              | 13,5 | 23 | 34 | 27   | Z2N-1013-005-002 |
| 005  | 3/4              | 26,9 | 26 | 47 | 46   | 36   | 3/8              | 17,2 | 24 | 38 | 30   | Z2N-1013-005-003 |
| 005  | 3/4              | 26,9 | 26 | 47 | 46   | 36   | 1/2              | 21,3 | 25 | 43 | 36   | Z2N-1013-005-004 |
| 006  | 1                | 33,7 | 30 | 56 | 50   | 46   | 1/2              | 21,3 | 25 | 43 | 36   | Z2N-1013-006-004 |
| 006  | 1                | 33,7 | 30 | 56 | 50   | 46   | 3/4              | 26,9 | 26 | 47 | 46   | Z2N-1013-006-005 |
| 007  | 1-1/4            | 42,4 | 35 | 61 | 65   | 50   | 1/2              | 21,3 | 25 | 43 | 36   | Z2N-1013-007-004 |
| 007  | 1-1/4            | 42,4 | 35 | 61 | 65   | 50   | 3/4              | 26,9 | 26 | 47 | 46   | Z2N-1013-007-005 |
| 007  | 1-1/4            | 42,4 | 35 | 61 | 65   | 50   | 1                | 33,7 | 30 | 56 | 50   | Z2N-1013-007-006 |



**Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard**

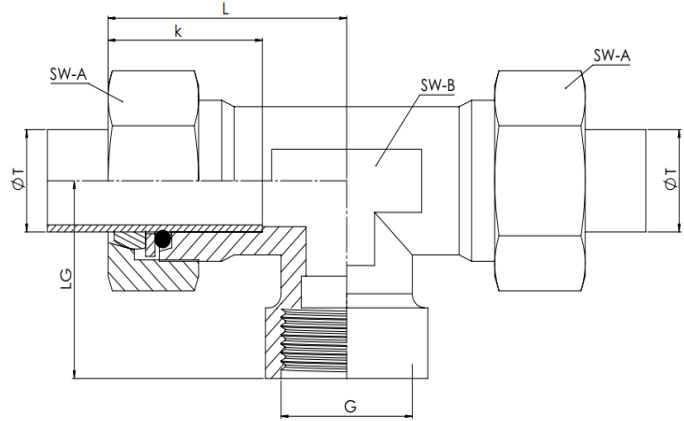
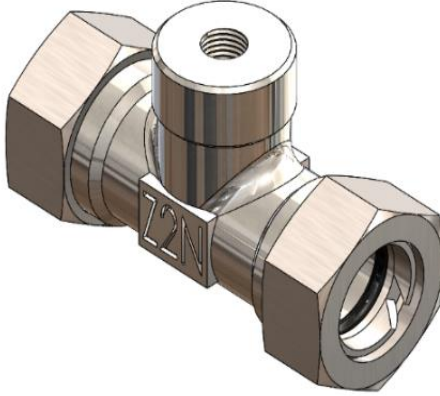
**Fitting type: 1014 / T –Equal tee**



| Size | ØT; pipe |      | k  | L  | SW-A | SW-B | Order code       |
|------|----------|------|----|----|------|------|------------------|
|      | inch     | mm   |    |    |      |      |                  |
| 001  | 1/8      | 10,2 | 19 | 28 | 22   | 17   | Z2N-1014-001-002 |
| 002  | ¼        | 13,5 | 23 | 34 | 27   | 19   | Z2N-1014-002-002 |
| 003  | 3/8      | 17,2 | 24 | 38 | 30   | 24   | Z2N-1014-003-003 |
| 004  | ½        | 21,3 | 25 | 43 | 36   | 30   | Z2N-1014-004-004 |
| 005  | ¾        | 26,9 | 26 | 47 | 46   | 36   | Z2N-1014-005-005 |
| 006  | 1        | 33,7 | 30 | 56 | 50   | 46   | Z2N-1014-006-006 |
| 007  | 1-1/4    | 42,4 | 35 | 61 | 65   | 50   | Z2N-1014-007-007 |
| 008  | 1-1/2    | 48,3 | 36 | 69 | 70   | 60   | Z2N-1014-008-008 |
| 009  | 2        | 60,3 | 47 | 80 | 85   | 70   | Z2N-1014-009-009 |



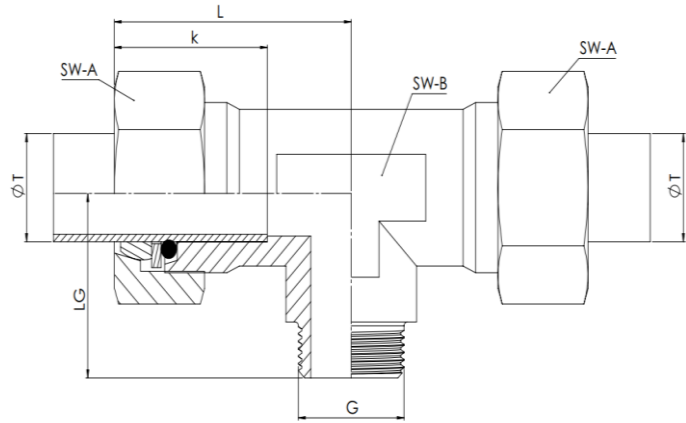
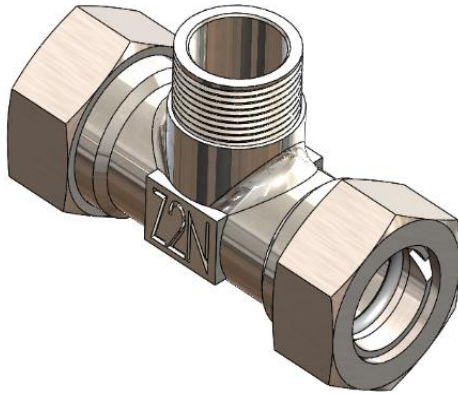
**Fitting type: 1015 / TF – Parallel female tee**



| Size | T; pipe |      | k  | L  | G:<br>Thread | LG   | SW-A | SW-B | Order code       |
|------|---------|------|----|----|--------------|------|------|------|------------------|
|      | inch    | mm   |    |    |              |      |      |      |                  |
| 001  | 1/8     | 10,2 | 19 | 28 | G1/4         | 30   | 22   | 17   | Z2N-1015-001-002 |
| 002  | ¼       | 13,5 | 23 | 34 | G1/4         | 30   | 27   | 19   | Z2N-1015-002-002 |
| 003  | 3/8     | 17,2 | 24 | 38 | G3/8         | 37   | 30   | 24   | Z2N-1015-003-003 |
| 004  | ½       | 21,3 | 25 | 43 | G1/2         | 42,5 | 36   | 30   | Z2N-1015-004-004 |
| 005  | ¾       | 26,9 | 26 | 47 | G3/4         | 49   | 46   | 36   | Z2N-1015-005-005 |
| 006  | 1       | 33,7 | 30 | 56 | G1           | 55   | 50   | 46   | Z2N-1015-006-006 |
| 007  | 1-1/4   | 42,4 | 35 | 61 | G1-1/4       | 64   | 65   | 50   | Z2N-1015-007-007 |



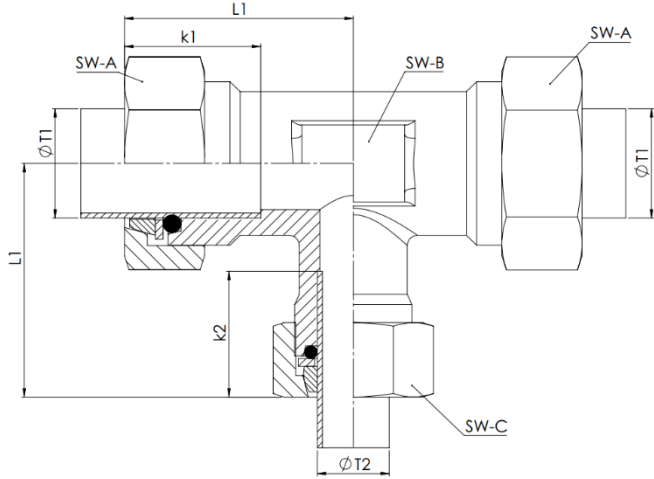
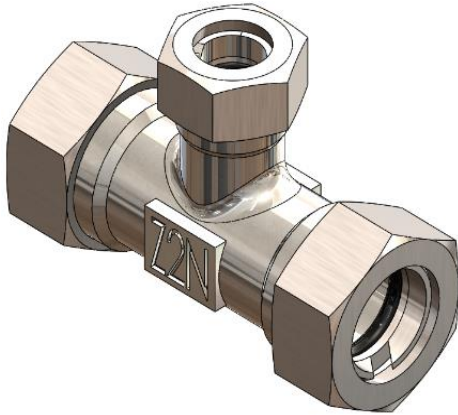
**Fitting type: 1016 / TMF – Parallel male tee**



| Size | ØT; pipe |      | k  | L  | G: Thread | LG   | SW-A | SW-B | Order code       |
|------|----------|------|----|----|-----------|------|------|------|------------------|
|      | inch     | mm   |    |    |           |      |      |      |                  |
| 001  | 1/8      | 10,2 | 19 | 28 | G1/4      | 30   | 22   | 17   | Z2N-1016-001-002 |
| 002  | ¼        | 13,5 | 23 | 34 | G1/4      | 30   | 27   | 19   | Z2N-1016-002-002 |
| 003  | 3/8      | 17,2 | 24 | 38 | G1/4      | 30   | 27   | 19   | Z2N-1016-003-002 |
| 003  | 3/8      | 17,2 | 24 | 38 | G3/8      | 37   | 30   | 24   | Z2N-1016-003-003 |
| 004  | ½        | 21,3 | 25 | 43 | G1/4      | 30   | 27   | 19   | Z2N-1016-004-002 |
| 004  | ½        | 21,3 | 25 | 43 | G3/8      | 37   | 30   | 24   | Z2N-1016-004-003 |
| 004  | ½        | 21,3 | 25 | 43 | G1/2      | 42,5 | 36   | 30   | Z2N-1016-004-004 |
| 005  | ¾        | 26,9 | 26 | 47 | G3/8      | 37   | 30   | 24   | Z2N-1016-005-003 |
| 005  | ¾        | 26,9 | 26 | 47 | G1/2      | 42,5 | 36   | 30   | Z2N-1016-005-004 |
| 005  | ¾        | 26,9 | 26 | 47 | G3/4      | 49   | 46   | 36   | Z2N-1016-005-005 |
| 006  | 1        | 33,7 | 30 | 56 | G3/8      | 37   | 30   | 24   | Z2N-1016-006-003 |
| 006  | 1        | 33,7 | 30 | 56 | G1/2      | 42,5 | 36   | 30   | Z2N-1016-006-004 |
| 006  | 1        | 33,7 | 30 | 56 | G3/4      | 49   | 46   | 36   | Z2N-1016-006-005 |
| 006  | 1        | 33,7 | 30 | 56 | G1        | 55   | 50   | 46   | Z2N-1016-006-006 |
| 007  | 1-1/4    | 42,4 | 35 | 61 | G3/4      | 49   | 46   | 36   | Z2N-1016-007-005 |
| 007  | 1-1/4    | 42,4 | 35 | 61 | G1        | 55   | 50   | 46   | Z2N-1016-007-006 |
| 007  | 1-1/4    | 42,4 | 35 | 61 | G1-1/4    | 64   | 65   | 50   | Z2N-1016-007-007 |



**Fitting type: 1017 / TR –Reducing tee**

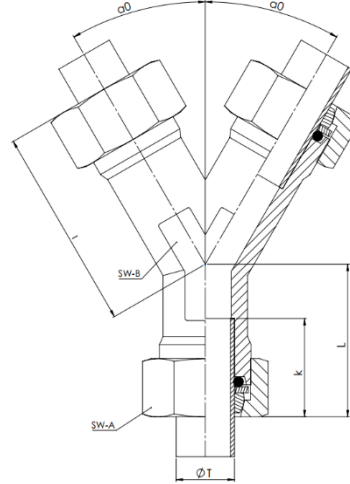
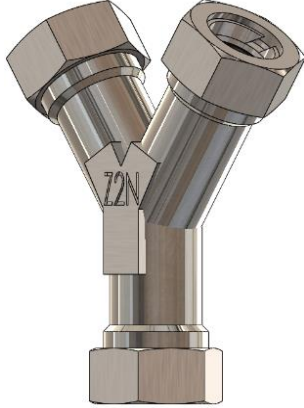


| Size | T1; pipe |      | K1 | L1 | T1; pipe |      | K2 | L2 | SW-A | SW-B | SW-C | Order code       |
|------|----------|------|----|----|----------|------|----|----|------|------|------|------------------|
|      | inch     | mm   |    |    | inch     | mm   |    |    |      |      |      |                  |
| 002  | ¼        | 13,5 | 23 | 34 | 1/8      | 10,2 | 19 | 28 | 22   | 17   | 22   | Z2N-1017-002-001 |
| 003  | 3/8      | 17,2 | 24 | 38 | ¼        | 13,5 | 23 | 34 | 27   | 19   | 27   | Z2N-1017-003-002 |
| 004  | ½        | 21,3 | 25 | 43 | ¼        | 13,5 | 23 | 34 | 27   | 19   | 27   | Z2N-1017-004-002 |
| 004  | ½        | 21,3 | 25 | 43 | 3/8      | 17,2 | 24 | 38 | 30   | 24   | 30   | Z2N-1017-004-003 |
| 005  | ¾        | 26,9 | 26 | 47 | ¼        | 13,5 | 23 | 34 | 27   | 19   | 27   | Z2N-1017-005-002 |
| 005  | ¾        | 26,9 | 26 | 47 | 3/8      | 17,2 | 24 | 38 | 30   | 24   | 30   | Z2N-1017-005-003 |
| 005  | ¾        | 26,9 | 26 | 47 | ½        | 21,3 | 25 | 43 | 36   | 30   | 36   | Z2N-1017-005-004 |
| 006  | 1        | 33,7 | 35 | 56 | ½        | 21,3 | 25 | 43 | 36   | 30   | 36   | Z2N-1017-006-004 |
| 006  | 1        | 33,7 | 35 | 56 | ¾        | 26,9 | 26 | 47 | 46   | 36   | 46   | Z2N-1017-006-005 |
| 007  | 1-1/4    | 42,4 | 30 | 61 | ½        | 21,3 | 25 | 43 | 36   | 30   | 36   | Z2N-1017-007-004 |
| 007  | 1-1/4    | 42,4 | 30 | 61 | ¾        | 26,9 | 26 | 47 | 46   | 36   | 46   | Z2N-1017-007-005 |
| 007  | 1-1/4    | 42,4 | 30 | 61 | 1        | 33,7 | 35 | 56 | 50   | 46   | 50   | Z2N-1017-007-006 |



**Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard**

**Fitting type: 1018 / Y –Equal Y banch**



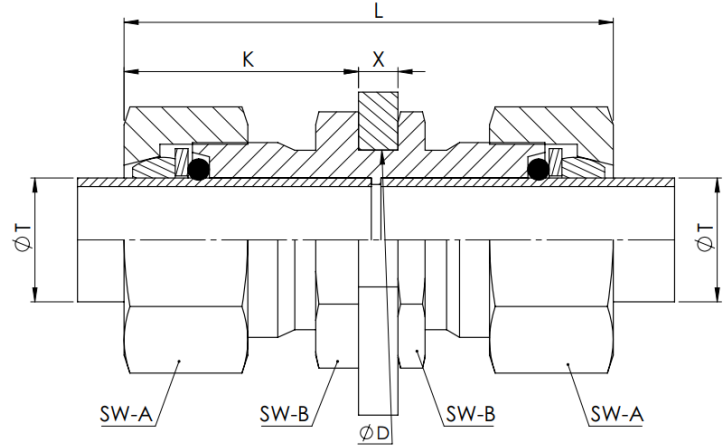
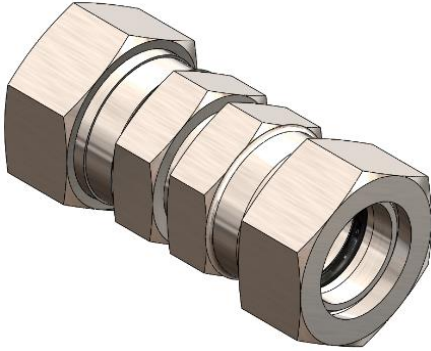
| Size | T; pipe |      | k  | L  | a 0 | l  | SW-A | SW-B | Order code       |
|------|---------|------|----|----|-----|----|------|------|------------------|
|      | inch    | mm   |    |    |     |    |      |      |                  |
| 007  | 1-1/4   | 42,4 | 30 | 36 | 30  | 89 | 65   | 45   | Z2N-1018-007-007 |



**Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard**

**Fitting type: 1019 / PC –Bulkhead union**

**(WALL THICKNESS X (3 to 10 mm))**

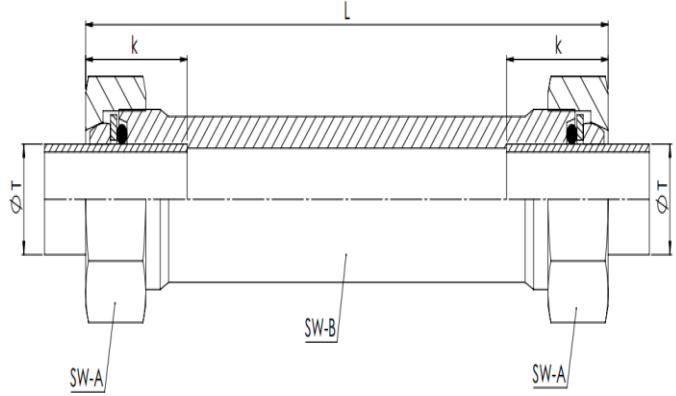
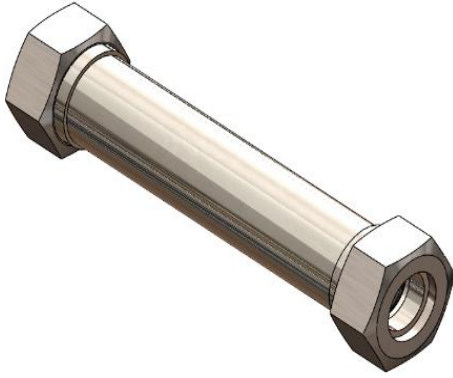


| Size | T; pipe |      | k  | L   | ØD:<br>hole | SW-A | SW-B | Order code       | Traceability<br>No |
|------|---------|------|----|-----|-------------|------|------|------------------|--------------------|
|      | inch    | mm   |    |     |             |      |      |                  |                    |
| 001  | 1/8     | 10,2 | 22 | 52  | 19          | 22   | 24   | Z2N-1019-001-002 | Z2N 1912           |
| 002  | ¼       | 13,5 | 24 | 55  | 24          | 27   | 30   | Z2N-1019-002-002 | Z2N 1922           |
| 003  | 3/8     | 17,2 | 27 | 61  | 27          | 30   | 32   | Z2N-1019-003-003 | Z2N 1933           |
| 004  | ½       | 21,3 | 29 | 64  | 33          | 36   | 41   | Z2N-1019-004-004 | Z2N 1944           |
| 005  | ¾       | 26,9 | 30 | 66  | 39          | 46   | 46   | Z2N-1019-005-005 | Z2N 1955           |
| 006  | 1       | 33,7 | 34 | 73  | 47          | 50   | 55   | Z2N-1019-006-006 | Z2N 1966           |
| 007  | 1-1/4   | 42,4 | 39 | 80  | 59          | 65   | 65   | Z2N-1019-007-007 | Z2N 1977           |
| 008  | 1-1/2   | 48,3 | 41 | 86  | 64          | 70   | 75   | Z2N-1019-008-008 | Z2N 1988           |
| 009  | 2       | 60,3 | 49 | 100 | 77          | 85   | 85   | Z2N-1019-009-009 | Z2N 1999           |



Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard

**Fitting type: 1020 / EM –Parallel male elbow**

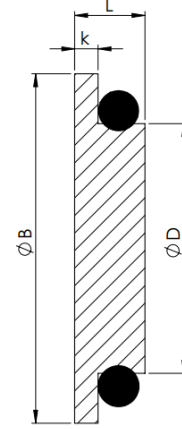


| Size | T; pipe |      | K  | L   | SW-A | SW-B<br>φ | Order code       | Traceability No |
|------|---------|------|----|-----|------|-----------|------------------|-----------------|
|      | inch    | mm   |    |     |      |           |                  |                 |
| 001  | 1/8     | 10,2 | 19 | 150 | 22   | 18        | Z2N-1020-001-001 | Z2N 2011        |
| 002  | ¼       | 13,5 | 23 | 150 | 27   | 23        | Z2N-1020-002-002 | Z2N 2022        |
| 003  | 3/8     | 17,2 | 24 | 150 | 30   | 26        | Z2N-1020-003-003 | Z2N 2033        |
| 004  | ½       | 21,3 | 25 | 175 | 36   | 32        | Z2N-1020-004-004 | Z2N 2044        |
| 005  | ¾       | 26,9 | 26 | 175 | 46   | 38        | Z2N-1020-005-005 | Z2N 2055        |
| 006  | 1       | 33,7 | 30 | 175 | 50   | 46        | Z2N-1020-006-006 | Z2N 2066        |
| 007  | 1-1/4   | 42,4 | 35 | 200 | 65   | 58        | Z2N-1020-007-007 | Z2N 2077        |
| 008  | 1-1/2   | 48,3 | 36 | 200 | 70   | 63        | Z2N-1020-008-008 | Z2N 2088        |
| 009  | 2       | 60,3 | 47 | 200 | 85   | 76        | Z2N-1020-009-009 | Z2N 2099        |



Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard

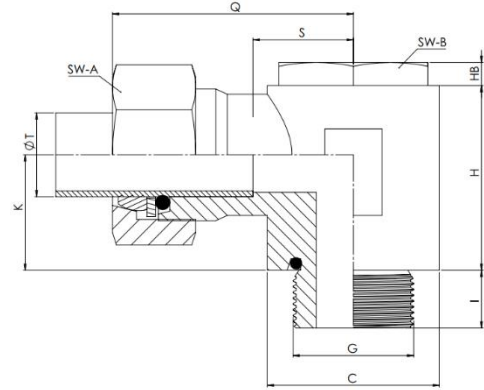
**Fitting type: 1021 / OB –Cap**



| Size | T; Boru çapı |      | ØD   | ØB   | L   | k   | Order code       | Traceability No |
|------|--------------|------|------|------|-----|-----|------------------|-----------------|
|      | inch         | mm   |      |      |     |     |                  |                 |
| 001  | 1/8          | 10,2 | 10,2 | 16   | 3,5 | 1,5 | Z2N-1021-001-002 | Z2N 2112        |
| 002  | ¼            | 13,5 | 13,5 | 20,9 | 4,5 | 1,5 | Z2N-1021-002-002 | Z2N 2122        |
| 003  | 3/8          | 17,2 | 17,2 | 23,9 | 5   | 2   | Z2N-1021-003-003 | Z2N 2133        |
| 004  | ½            | 21,3 | 21,3 | 29,8 | 6   | 2   | Z2N-1021-004-004 | Z2N 2144        |
| 005  | ¾            | 26,9 | 26,9 | 35,8 | 6,5 | 2,5 | Z2N-1021-005-005 | Z2N 2155        |
| 006  | 1            | 33,7 | 33,7 | 43,7 | 6,5 | 2,5 | Z2N-1021-006-006 | Z2N 2166        |
| 007  | 1-1/4        | 42,4 | 42,4 | 55,7 | 9   | 3   | Z2N-1021-007-007 | Z2N 2177        |
| 008  | 1-1/2        | 48,3 | 48,3 | 60,6 | 9   | 3   | Z2N-1021-008-008 | Z2N 2188        |
| 009  | 2            | 60,3 | 60,3 | 73,6 | 9   | 3   | Z2N-1021-009-009 | Z2N 2199        |



**Fitting type: 1022 / OR –Parallel single banjo**

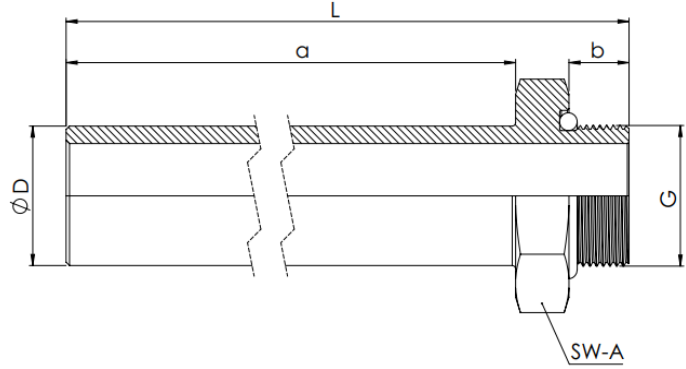


| Size | φT; pipe |      | Q    | S    | SW-A | G:<br>Thread | l    | k    | H    | SW-B | HB | K    | C    | Order code       |
|------|----------|------|------|------|------|--------------|------|------|------|------|----|------|------|------------------|
|      | inch     | mm   |      |      |      |              |      |      |      |      |    |      |      |                  |
| 001  | 1/8      | 10,2 | 37   | 18,5 | 22   | G1/4         | 7,8  | 16   | 25,5 | 22   | 6  | 16   | 27,5 | Z2N-1022-001-002 |
| 002  | ¼        | 13,5 | 36   | 15,5 | 27   | G1/4         | 7,8  | 16   | 29,5 | 27   | 6  | 18   | 27,5 | Z2N-1022-002-002 |
| 003  | 3/8      | 17,2 | 42   | 17   | 30   | G3/8         | 7,8  | 18   | 37   | 30   | 7  | 22   | 30   | Z2N-1022-003-003 |
| 004  | ½        | 21,3 | 43   | 18   | 36   | G1/2         | 9,6  | 22   | 37   | 32   | 8  | 22   | 38   | Z2N-1022-004-004 |
| 005  | ¾        | 26,9 | 50,5 | 27,5 | 46   | G3/4         | 13,6 | 25,5 | 43   | 41   | 9  | 37,5 | 50   | Z2N-1022-005-005 |
| 006  | 1        | 33,7 | 50,5 | 21   | 46   | G1           | 17   | 30   | 43   | 41   | 9  | 37,5 | 50   | Z2N-1022-005-005 |



**Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard**

**Fitting type: 1023 / ELC –Pipe fitting**

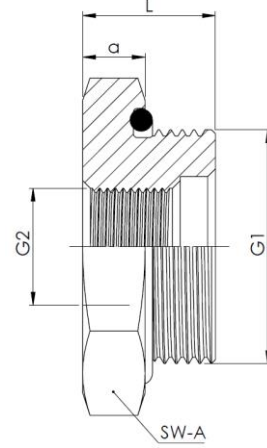
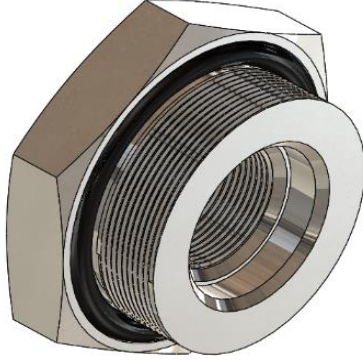


| Size | G:<br>Thread | b  | φD; pipe |      | a   | L   | SW-A | Order code       | Traceability<br>No |
|------|--------------|----|----------|------|-----|-----|------|------------------|--------------------|
|      |              |    | inch     | mm   |     |     |      |                  |                    |
| 007  | G1-1/4       | 16 | 1-1/4    | 42,4 | 316 | 350 | 65   | Z2N-1023-007-001 | Z2N 2371           |
| 007  | G1-1/4       | 16 | 1-1/4    | 42,4 | 366 | 400 | 65   | Z2N-1023-007-002 | Z2N 2372           |
| 007  | G1-1/4       | 16 | 1-1/4    | 42,4 | 416 | 450 | 65   | Z2N-1023-007-003 | Z2N 2373           |
| 007  | G1-1/4       | 16 | 1-1/4    | 42,4 | 466 | 500 | 65   | Z2N-1023-007-004 | Z2N 2374           |



**Vebeo Fittings for Rail Vehicles according to UIC 803-35 standard**

**Fitting type: 1024 / redüksiyon nipel**



| Size | G1: Thread | G2: Thread | a  | L  | SW-A | Order code       | Traceability No |
|------|------------|------------|----|----|------|------------------|-----------------|
| 002  | G1/2       | G1/4       | 8  | 18 | 32   | Z2N-1024-004-002 | Z2N 2442        |
| 004  | G1         | G1/2       | 12 | 24 | 46   | Z2N-1024-006-004 | Z2N 2464        |
| 005  | G2         | G3/4       | 16 | 34 | 75   | Z2N-1024-009-005 | Z2N 2495        |
| 006  | G2         | G1         | 16 | 34 | 75   | Z2N-1024-009-006 | Z2N 2496        |

# CERTIFICATE OF CONFORMITY

**Certificate no.** : 18-IS-0020-TAT-18-CC-0597  
sertifika no.

**Identification Number** : Z2N-U-012-000, Z2N-U-014-000 and Z2N-U-114-000  
ID No.

**Reference Flie** : Z2N TECHNICAL FILE  
Referans Dosya

**Manufacturer** : Z2N Makine Pazarlama Sanayi ve Ticaret Ltd. Şti.  
İmalatçı

**Documentation Scope** : U Type Vebeo Fitting  
Belgelendirme Kapsamı

**Reference Rules based on** : UIC 803-35 (Connetion Ttype A)  
Referans Kurallar

## INSPECTION SCOPE :

- Testing process cheked at Z2N Factory
- Dimensional control cheked at Z2N Factory
- Material certificates reviewed at Z2N Factory
- Leak test performed
- Pneumatic test applied for body
- Tensile test applied for body
- Thermal test (-40°C/+140°C)
- Salt test report revived

**Result** : The above-described U type Vebeos fulfils above mentioned test and it is seen that the specified products are in compliance with UIC 803-35 Requirements.

**Sonuç** : Yukarıda tanımlanan U tipi Vebeolar belirtilen test ve kontrollere tabi tutulmuş ve UIC 803-35 kurallarına uygun olduğu görülmüştür.

Istanbul,04.06.2018

**TÜV AUSTRIA TURK**  
Murat SÜNBÜL / Samet KEMAHLI

