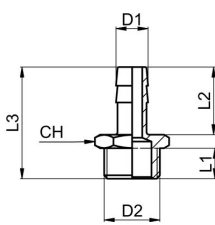


## Fittings/Hose nozzle - Nickel-plated brass Series TH



|                    |                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------|
| Connection         | 1/8" ... 1" optionally cylindrical to ISO 228/1 or tapered to ISO 7/1, M5 according to ISO R/262 |
| Material           | Nickel-plated brass                                                                              |
| Medium             | Compressed air, neutral gases, Liquids that do not chemically attack the materials               |
| Medium temperature | -40...+150°C<br>Series TH50 -20...+80°C                                                          |
| Operating pressure | -1...60bar                                                                                       |

### HN38 screw-in Hose nozzle - Cylindrical thread

|  | D1 for hose [mm] | D2     | L1 | L2 | L3   | CH | Weight [g] | Type             |
|-------------------------------------------------------------------------------------|------------------|--------|----|----|------|----|------------|------------------|
|                                                                                     | 2,5              | M5x0,8 | 5  | 9  | 17   | 8  | 2          | HN38-2,5-M5-N-YA |
|                                                                                     | 3                | M5x0,8 | 5  | 9  | 17   | 8  | 2          | HN38-03-M5-N-YA  |
|                                                                                     | 4                | M5x0,8 | 5  | 9  | 17   | 8  | 2,3        | HN38-04-M5-N-YA  |
|                                                                                     | 6                | G1/8"  | 6  | 20 | 30   | 14 | 10,5       | HN38-06-18-N     |
|                                                                                     | 6                | G1/4"  | 8  | 20 | 33   | 17 | 17         | HN38-06-14-N     |
|                                                                                     | 8                | G1/8"  | 6  | 20 | 30   | 14 | 14         | HN38-08-18-N-YA  |
|                                                                                     | 8                | G1/4"  | 8  | 19 | 29,5 | 17 | 12         | HN38-08-14-N-YB  |
|                                                                                     | 9                | G1/8"  | 6  | 20 | 30   | 14 | 12         | HN38-09-18-N     |
|                                                                                     | 9                | G1/4"  | 8  | 20 | 33   | 17 | 18         | HN38-09-14-N     |
|                                                                                     | 9                | G3/8"  | 9  | 20 | 34   | 19 | 22         | HN38-09-38-N     |
|                                                                                     | 9                | G1/2"  | 12 | 21 | 39   | 24 | 24         | HN38-09-12-N-C   |
|                                                                                     | 12               | G1/4"  | 8  | 22 | 35   | 17 | 20         | HN38-12-14-N     |
|                                                                                     | 12               | G3/8"  | 9  | 22 | 36   | 19 | 24         | HN38-12-38-N     |
|                                                                                     | 12               | G1/2"  | 10 | 22 | 38   | 24 | 36         | HN38-12-12-N     |
|                                                                                     | 16               | G3/8"  | 9  | 24 | 38   | 19 | 37         | HN38-16-38-N     |
|                                                                                     | 16               | G1/2"  | 10 | 24 | 40   | 24 | 42         | HN38-16-12-N     |



## TH12 Extension - Cylindrical thread

|  | D1    | D2    | L2 | L1 | CH | Weight [g] | Type          |
|--|-------|-------|----|----|----|------------|---------------|
|  | G1/8" | G1/8" | 22 | 6  | 14 | 15         | TH12-18-N-L16 |
|  | G1/8" | G1/8" | 42 | 6  | 14 | 30         | TH12-18-N-L36 |
|  | G1/4" | G1/4" | 35 | 8  | 17 | 32         | TH12-14-N-L27 |
|  | G1/4" | G1/4" | 51 | 8  | 17 | 46         | TH12-14-N-L43 |

## TH13 Socket

|  | D1     | L1 | CH | Weight [g] | Type         |
|--|--------|----|----|------------|--------------|
|  | M5x0,8 | 11 | 8  | 2          | TH13-M5-N    |
|  | G1/8"  | 15 | 14 | 11         | TH13-18-N    |
|  | G1/4"  | 22 | 17 | 19         | TH13-14-N    |
|  | G3/8"  | 23 | 22 | 35         | TH13-38-N    |
|  | G1/2"  | 28 | 26 | 48         | TH13-12-N    |
|  | G3/4"  | 32 | 32 | 98         | TH13-34-N-YC |
|  | G1"    | 35 | 38 | 98         | TH13-10-N-YA |

## TH13 Reducing socket

|  | D1     | D2    | L1   | CH | Weight [g] | Type            |
|--|--------|-------|------|----|------------|-----------------|
|  | M5x0,8 | G1/8" | 13,5 | 14 | 10         | TH13-M5-18-N    |
|  | G1/8"  | G1/4" | 19   | 17 | 18         | TH13-18-14-N    |
|  | G1/8"  | G3/8" | 20   | 22 | 36         | TH13-18-38-N    |
|  | G1/4"  | G3/8" | 22,5 | 22 | 41         | TH13-14-38-N    |
|  | G1/4"  | G1/2" | 26   | 24 | 46         | TH13-14-12-N    |
|  | G3/8"  | G1/2" | 26   | 24 | 46         | TH13-38-12-N    |
|  | G1/2"  | G3/4" | 30   | 32 | 76         | TH13-12-34-N-YA |

## TH16C Elbow fitting - Male thread conical / Female thread

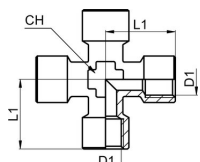
|  | D1    | D2    | L1   | L2   | L3   | CH | Weight [g] | Type          |
|--|-------|-------|------|------|------|----|------------|---------------|
|  | R1/8" | G1/8" | 8    | 17   | 18,5 | 10 | 12,5       | TH16C-18-N    |
|  | R1/4" | G1/4" | 11   | 21,5 | 22,5 | 12 | 23,5       | TH16C-14-N    |
|  | R3/8" | G3/8" | 11,5 | 24,5 | 25,5 | 15 | 41         | TH16C-38-N    |
|  | R1/2" | G1/2" | 14   | 29,5 | 30   | 19 | 71         | TH16C-12-N    |
|  | R3/4" | G3/4" | 16   | 33   | 36,5 | 25 | 98         | TH16C-34-N-YA |
|  | R1"   | G1"   | 17   | 39   | 45   | 30 | 164        | TH16C-10-N-YA |

## TH17 Elbow fitting - Female thread

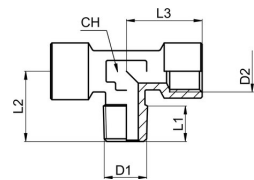
|  | D1    | L1   | CH | Weight [g] | Type      |
|--|-------|------|----|------------|-----------|
|  | G1/8" | 18,5 | 10 | 15         | TH17-18-N |
|  | G1/4" | 22,5 | 12 | 26         | TH17-14-N |
|  | G3/8" | 25,5 | 15 | 44         | TH17-38-N |
|  | G1/2" | 30   | 19 | 73         | TH17-12-N |
|  | G3/4" | 36,5 | 25 | 155        | TH17-34-N |
|  | G1"   | 45   | 30 | 234        | TH17-10-N |



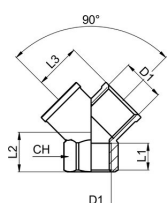
### TH20 Elbow fitting - Cross fitting

|  | D1    | L1   | CH | Weight [g] | Type      |
|-----------------------------------------------------------------------------------|-------|------|----|------------|-----------|
|                                                                                   | G1/8" | 18,5 | 10 | 41         | TH20-18-N |
|                                                                                   | G1/4" | 22,5 | 13 | 66         | TH20-14-N |
|                                                                                   | G3/8" | 25,5 | 17 | 112        | TH20-38-N |
|                                                                                   |       |      |    |            |           |

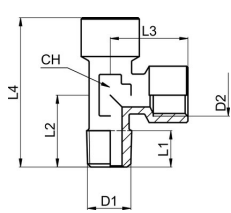
### TH21C T-piece - Male thread conical / Female thread

|  | D1    | D2    | L1   | L2   | L3   | CH | Weight [g] | Type          |
|-----------------------------------------------------------------------------------|-------|-------|------|------|------|----|------------|---------------|
|                                                                                   | R1/8" | G1/8" | 8    | 17   | 18,5 | 10 | 19         | TH21C-18-N    |
|                                                                                   | R1/4" | G1/4" | 11   | 21,5 | 22,5 | 12 | 34         | TH21C-14-N    |
|                                                                                   | R3/8" | G3/8" | 11,5 | 24,5 | 25,5 | 15 | 58         | TH21C-38-N    |
|                                                                                   | R1/2" | G1/2" | 14   | 29,5 | 30   | 19 | 96         | TH21C-12-N    |
|                                                                                   | R3/4" | G3/4" | 17   | 34,5 | 35,5 | 22 | 177        | TH21C-34-N-YA |
|                                                                                   | R1"   | G1"   | 19   | 40,5 | 40,5 | 28 | 297        | TH21C-10-N-YA |

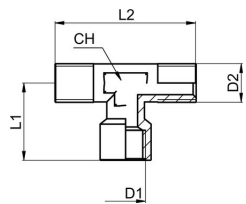
### TH23 Y-piece - Female thread

|  | D1    | L1   | L2   | L3   | CH | Weight [g] | Type      |
|-----------------------------------------------------------------------------------|-------|------|------|------|----|------------|-----------|
|                                                                                   | G1/8" | 8    | 17   | 18,5 | 10 | 18         | TH23-18-N |
|                                                                                   | G1/4" | 11   | 21,5 | 22,5 | 12 | 33         | TH23-14-N |
|                                                                                   | G3/8" | 11,5 | 24,5 | 25,5 | 15 | 44         | TH23-38-N |
|                                                                                   | G1/2" | 14   | 29,5 | 30   | 19 | 90         | TH23-12-N |

### TH24C T-piece - Male thread conical / Female thread

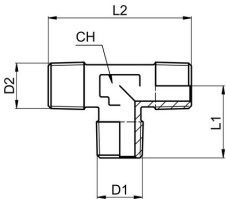
|  | D1    | D2    | L1   | L2   | L3   | L4   | CH | Weight [g] | Type       |
|-------------------------------------------------------------------------------------|-------|-------|------|------|------|------|----|------------|------------|
|                                                                                     | R1/8" | G1/8" | 8    | 17   | 18,5 | 35,5 | 10 | 19         | TH24C-18-N |
|                                                                                     | R1/4" | G1/4" | 11   | 21,5 | 22,5 | 44   | 12 | 34         | TH24C-14-N |
|                                                                                     | R3/8" | G3/8" | 11,5 | 24,5 | 25,5 | 50   | 15 | 57         | TH24C-38-N |
|                                                                                     | R1/2" | G1/2" | 14   | 29,5 | 30   | 59,5 | 19 | 96         | TH24C-12-N |
|                                                                                     | R3/4" | G3/4" | -    | -    | 36,5 | 65,5 | 25 | -          | TH24C-34-N |
|                                                                                     | R1"   | G1"   | -    | -    | 45   | 84   | 30 | -          | TH24C-10-N |

### TH25C T-piece - Male thread conical / Female thread

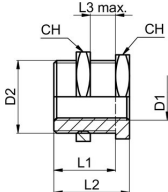
|  | D1    | D2    | L1   | L2 | CH | Weight [g] | Type          |
|-------------------------------------------------------------------------------------|-------|-------|------|----|----|------------|---------------|
|                                                                                     | G1/8" | R1/8" | 18,5 | 34 | 10 | 16,5       | TH25C-18-N    |
|                                                                                     | G1/4" | R1/4" | 22,5 | 43 | 12 | 31         | TH25C-14-N    |
|                                                                                     | G3/8" | R3/8" | 25,5 | 49 | 15 | 54         | TH25C-38-N    |
|                                                                                     | G1/2" | R1/2" | 30   | 60 | 19 | 95,5       | TH25C-12-N-YA |



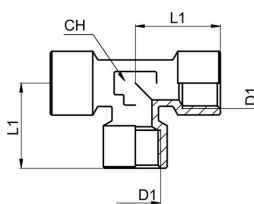
### TH26C T-piece - Male thread conical

|  | D1    | D2    | L1   | L2 | CH | Weight [g] | Type       |
|-----------------------------------------------------------------------------------|-------|-------|------|----|----|------------|------------|
|                                                                                   | R1/8" | R1/8" | 17   | 34 | 10 | 14         | TH26C-18-N |
|                                                                                   | R1/4" | R1/4" | 21,5 | 43 | 12 | 29         | TH26C-14-N |
|                                                                                   | R3/8" | R3/8" | 24,5 | 49 | 15 | 51         | TH26C-38-N |
|                                                                                   | R1/2" | R1/2" | 29,5 | 59 | 19 | 92,5       | TH26C-12-N |
|                                                                                   | R3/4" | R3/4" | 34,5 | 69 | 22 | 139        | TH26C-34-N |
|                                                                                   | R1"   | R1"   | 40,5 | 81 | 28 | 240        | TH26C-10-N |

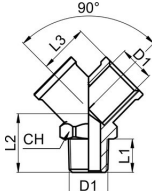
### TH28 Bulkhead nipple

|  | D1     | D2      | L1   | L2 | L3 max | CH1 | CH2 | Weight [g] | Type              |
|-----------------------------------------------------------------------------------|--------|---------|------|----|--------|-----|-----|------------|-------------------|
|                                                                                   | M5x0,8 | M10x1   | 10,5 | 13 | 7      | 14  | 14  | 12         | TH28-M10X1-M5-N   |
|                                                                                   | G1/8"  | M16x1,5 | 14   | 18 | 8      | 19  | 22  | 29         | TH28-M16X1,5-18-N |
|                                                                                   | G1/4"  | M20x1,5 | 20   | 24 | 13     | 24  | 27  | 48         | TH28-M20X1,5-14-N |
|                                                                                   | G3/8"  | M26x1,5 | 21   | 26 | 13     | 30  | 32  | 91         | TH28-M26X1,5-38-N |
|                                                                                   | G1/2"  | M28x1,5 | 27   | 33 | 19     | 32  | 36  | 112        | TH28-M28X1,5-12-N |

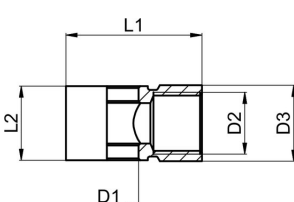
### TH29 T-piece - Female thread

|  | D1    | L1   | CH | Weight [g] | Type      |
|------------------------------------------------------------------------------------|-------|------|----|------------|-----------|
|                                                                                    | G1/8" | 18,5 | 10 | 21         | TH29-18-N |
|                                                                                    | G1/4" | 22,5 | 12 | 36         | TH29-14-N |
|                                                                                    | G3/8" | 25,5 | 15 | 61         | TH29-38-N |
|                                                                                    | G1/2" | 30   | 19 | 98         | TH29-12-N |
|                                                                                    | G3/4" | 36,5 | 25 | 218        | TH29-34-N |
|                                                                                    | G1"   | 45   | 30 | 313        | TH29-10-N |

### TH30C Y-piece - Male thread conical / Female thread

|  | D1    | D2    | L1   | L2 | L3   | CH | Weight [g] | Type       |
|-------------------------------------------------------------------------------------|-------|-------|------|----|------|----|------------|------------|
|                                                                                     | R1/8" | G1/8" | 8    | 16 | 14   | 10 | 19         | TH30C-18-N |
|                                                                                     | R1/4" | G1/4" | 11   | 20 | 17   | 12 | 34         | TH30C-14-N |
|                                                                                     | R3/8" | G3/8" | 11,5 | 22 | 19   | 15 | 58         | TH30C-38-N |
|                                                                                     | R1/2" | G1/2" | 14   | 27 | 24,5 | 19 | 96         | TH30C-12-N |

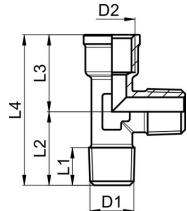
### TH35 L-ring piece

|  | D1     | D2     | D3 | L1   | L2 | Weight [g] | Type         |
|-------------------------------------------------------------------------------------|--------|--------|----|------|----|------------|--------------|
|                                                                                     | M5x0,8 | M5x0,8 | 9  | 11,5 | 10 | 7          | TH35-M5-N    |
|                                                                                     | M5x0,8 | M5x0,8 | 9  | 11,5 | 10 | 6          | TH35-M5-N-M* |
|                                                                                     | 1/8"   | G1/8"  | 14 | 16   | 15 | 15         | TH35-18-N    |
|                                                                                     | 1/4"   | G1/4"  | 17 | 22   | 17 | 25         | TH35-14-N    |
|                                                                                     | 3/8"   | G3/8"  | 20 | 26   | 20 | 40         | TH35-38-N    |
|                                                                                     | 1/2"   | G1/2"  | 26 | 32   | 24 | 66         | TH35-12-N    |

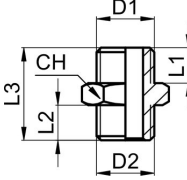
\*for Swivel throttle valve and Swivel throttle check valve



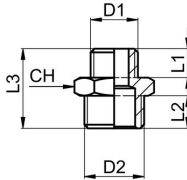
### TH37C T-piece - Male thread conical / Female thread

|  | D1    | D2    | L1   | L2   | L3   | L4   | CH | Weight [g] | Type       |
|-----------------------------------------------------------------------------------|-------|-------|------|------|------|------|----|------------|------------|
|                                                                                   | R1/8" | G1/8" | 8    | 17   | 18,5 | 35,5 | 10 | 19         | TH37C-18-N |
|                                                                                   | R1/4" | G1/4" | 11   | 21,5 | 22,5 | 44   | 12 | 34         | TH37C-14-N |
|                                                                                   | R3/8" | G3/8" | 11,5 | 24,5 | 25,5 | 50   | 15 | 57         | TH37C-38-N |
|                                                                                   | R1/2" | G1/2" | 14   | 29,5 | 30   | 59,5 | 19 | 96         | TH37C-12-N |
|                                                                                   |       |       |      |      |      |      |    |            |            |

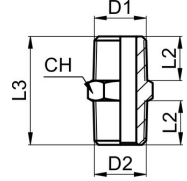
### TH38 Double nipple - Cylindrical thread

|  | D1     | D2     | L1 | L2 | L3   | CH | Weight [g] | Type      |
|-----------------------------------------------------------------------------------|--------|--------|----|----|------|----|------------|-----------|
|                                                                                   | M5x0,8 | M5x0,8 | 5  | 5  | 13,5 | 8  | 2          | TH38-M5-N |
|                                                                                   | G1/8"  | G1/8"  | 6  | 6  | 16,5 | 14 | 8          | TH38-18-N |
|                                                                                   | G1/4"  | G1/4"  | 8  | 8  | 21   | 17 | 16         | TH38-14-N |
|                                                                                   | G3/8"  | G3/8"  | 9  | 9  | 23   | 19 | 22         | TH38-38-N |
|                                                                                   | G1/2"  | G1/2"  | 10 | 10 | 25,5 | 24 | 35         | TH38-12-N |
|                                                                                   |        |        |    |    |      |    |            |           |

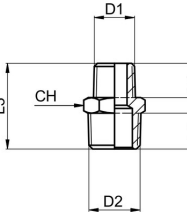
### TH38 Reducing double nipple - Cylindrical thread

|  | D1     | D2    | L1 | L2 | L3   | CH | Weight [g] | Type         |
|------------------------------------------------------------------------------------|--------|-------|----|----|------|----|------------|--------------|
|                                                                                    | M5x0,8 | G1/8" | 5  | 6  | 15,5 | 14 | 8          | TH38-M5-18-N |
|                                                                                    | G1/8"  | G1/4" | 6  | 8  | 19   | 17 | 14,5       | TH38-18-14-N |
|                                                                                    | G1/8"  | G3/8" | 6  | 9  | 20   | 19 | 19         | TH38-18-38-N |
|                                                                                    | G1/4"  | G3/8" | 8  | 9  | 22   | 19 | 21         | TH38-14-38-N |
|                                                                                    | G1/4"  | G1/2" | 8  | 10 | 23,5 | 24 | 32         | TH38-14-12-N |
|                                                                                    | G3/8"  | G1/2" | 9  | 10 | 25,5 | 24 | 35         | TH38-38-12-N |

### TH38C Double nipple - Tapered thread

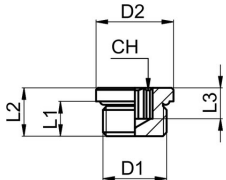
|  | D1    | D2    | L1   | L2   | L3   | CH | Weight [g] | Type       |
|-------------------------------------------------------------------------------------|-------|-------|------|------|------|----|------------|------------|
|                                                                                     | R1/8" | R1/8" | 7,5  | 7,5  | 20   | 12 | 8          | TH38C-18-N |
|                                                                                     | R1/4" | R1/4" | 11   | 11   | 27   | 14 | 17,5       | TH38C-14-N |
|                                                                                     | R3/8" | R3/8" | 11,5 | 11,5 | 28   | 17 | 23         | TH38C-38-N |
|                                                                                     | R1/2" | R1/2" | 14   | 14   | 34   | 22 | 44         | TH38C-12-N |
|                                                                                     | R3/4" | R3/4" | 16,5 | 16,5 | 40   | 27 | 78         | TH38C-34-N |
|                                                                                     | R1"   | R1"   | 19   | 19   | 45,5 | 34 | 128        | TH38C-10-N |

### TH38C Reducing double nipple - Tapered thread

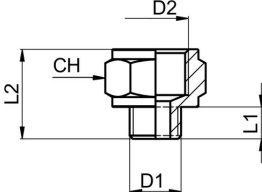
|  | D1    | D2    | L1   | L2   | L3   | CH | Weight [g] | Type          |
|-------------------------------------------------------------------------------------|-------|-------|------|------|------|----|------------|---------------|
|                                                                                     | R1/8" | R1/4" | 7,5  | 11   | 23,5 | 14 | 12         | TH38C-18-14-N |
|                                                                                     | R1/8" | R3/8" | 7,5  | 11,5 | 24   | 17 | 20         | TH38C-18-38-N |
|                                                                                     | R1/4" | R3/8" | 11   | 11,5 | 27,5 | 17 | 20         | TH38C-14-38-N |
|                                                                                     | R1/4" | R1/2" | 11   | 14   | 31   | 22 | 38         | TH38C-14-12-N |
|                                                                                     | R3/8" | R1/2" | 11,5 | 14   | 31,5 | 22 | 40         | TH38C-38-12-N |
|                                                                                     | R1/2" | R3/4" | 14   | 16,5 | 37,5 | 27 | 69         | TH38C-12-34-N |
|                                                                                     | R3/4" | R1"   | 16,5 | 19   | 42,5 | 34 | 112        | TH38C-34-10-N |



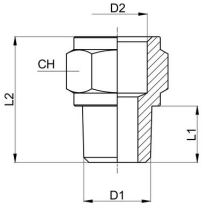
### TH50 Sealing screw with hexagon socket and O-ring (NBR) - Cylindrical thread

|  | D1    | D2 | L1  | L2  | L3  | CH | Weight [g] | Type        |
|-----------------------------------------------------------------------------------|-------|----|-----|-----|-----|----|------------|-------------|
|                                                                                   | G1/8" | 13 | 6   | 8,5 | 5,5 | 5  | 5,5        | TH50-18-N-0 |
|                                                                                   | G1/4" | 16 | 6,5 | 9,5 | 6   | 6  | 11         | TH50-14-N-0 |
|                                                                                   | G3/8" | 20 | 7   | 10  | 6   | 8  | 18,5       | TH50-38-N-0 |
|                                                                                   | G1/2" | 25 | 8,5 | 12  | 7   | 10 | 33         | TH50-12-N-0 |
|                                                                                   |       |    |     |     |     |    |            |             |

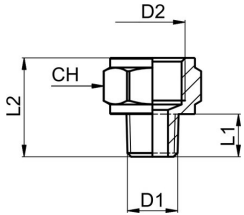
### TH59 Reducing nipple - Cylindrical thread

|  | D1     | D2    | L1 | L2   | CH | Weight [g] | Type            |
|-----------------------------------------------------------------------------------|--------|-------|----|------|----|------------|-----------------|
|                                                                                   | M5x0,8 | G1/8" | 4  | 14,5 | 14 | 7          | TH59-M5-18-N    |
|                                                                                   | G1/8"  | G1/8" | 6  | 16   | 14 | 13         | TH59-18-N       |
|                                                                                   | G1/8"  | G1/4" | 6  | 19,5 | 17 | 17         | TH59-18-14-N    |
|                                                                                   | G1/8"  | G3/8" | 6  | 20,5 | 22 | 30         | TH59-18-38-N-YA |
|                                                                                   | G1/4"  | G1/4" | 8  | 21,5 | 17 | 19         | TH59-14-N       |
|                                                                                   | G1/4"  | G3/8" | 8  | 22,5 | 22 | 32         | TH59-14-38-N    |
|                                                                                   | G1/4"  | G1/2" | 8  | 26   | 24 | 37         | TH59-14-12-N    |
|                                                                                   | G3/8"  | G3/8" | 9  | 23,5 | 22 | 36         | TH59-38-N       |
|                                                                                   | G3/8"  | G1/2" | 9  | 27   | 24 | 37         | TH59-38-12-N    |
|                                                                                   | G1/2"  | G1/2" | 10 | 28   | 26 | 43         | TH59-12-N       |
|                                                                                   |        |       |    |      |    |            |                 |

### TH59 Reducing nipple - Thread NPT/G

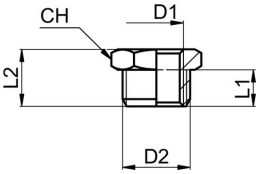
|  | D1      | D2    | L1 | L2 | CH | Weight [g] | Type          |
|------------------------------------------------------------------------------------|---------|-------|----|----|----|------------|---------------|
|                                                                                    | 1/8"NPT | G1/8" | 6  | 18 | 14 | 13         | TH59-18N-18-N |
|                                                                                    | 1/4"NPT | G1/4" | 8  | 24 | 17 | 27         | TH59-14N-14-N |
|                                                                                    | 3/8"NPT | G3/8" | 9  | 25 | 21 | 50         | TH59-38N-38-N |
|                                                                                    | 1/2"NPT | G1/2" | 10 | 30 | 24 | 50         | TH59-12N-12-N |
|                                                                                    |         |       |    |    |    |            |               |

### TH59C Reducing nipple - External tapered thread

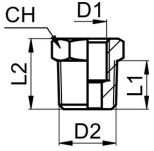
|  | D1    | D2    | L1   | L2   | CH | Weight [g] | Type          |
|-------------------------------------------------------------------------------------|-------|-------|------|------|----|------------|---------------|
|                                                                                     | R1/8" | G1/8" | 8    | 18   | 14 | 13         | TH59C-18-N    |
|                                                                                     | R1/8" | G1/4" | 8    | 21,5 | 17 | 18         | TH59C-18-14-N |
|                                                                                     | R1/8" | G3/8" | 8    | 22,5 | 22 | 31         | TH59C-18-38-N |
|                                                                                     | R1/4" | G1/4" | 11   | 24,5 | 17 | 22         | TH59C-14-N    |
|                                                                                     | R1/4" | G3/8" | 11   | 25,5 | 22 | 42         | TH59C-14-38-N |
|                                                                                     | R1/4" | G1/2" | 11   | 29   | 24 | 40         | TH59C-14-12-N |
|                                                                                     | R3/8" | G3/8" | 11,5 | 26   | 22 | 42         | TH59C-38-N    |
|                                                                                     | R3/8" | G1/2" | 11,5 | 29,5 | 24 | 40         | TH59C-38-12-N |
|                                                                                     | R1/2" | G1/2" | 14   | 32   | 26 | 57         | TH59C-12-N    |



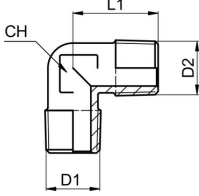
### TH60 Reducing nipple - Cylindrical thread

|                                                                                   |        |       |      |      |    |            |                 |
|-----------------------------------------------------------------------------------|--------|-------|------|------|----|------------|-----------------|
|  | D1     | D2    | L1   | L2   | CH | Weight [g] | Type            |
|                                                                                   | M5x0,8 | G1/8" | 6    | 10,5 | 14 | 8          | TH60-M5-18-N    |
|                                                                                   | G1/8"  | G1/4" | 8    | 13   | 17 | 10         | TH60-18-14-N    |
|                                                                                   | G1/8"  | G3/8" | 9    | 14   | 19 | 19         | TH60-18-38-N    |
|                                                                                   | G1/8"  | G1/2" | 10   | 15,5 | 24 | 38         | TH60-18-12-N    |
|                                                                                   | G1/4"  | G3/8" | 9    | 14   | 19 | 13         | TH60-14-38-N    |
|                                                                                   | G1/4"  | G1/2" | 10   | 15,5 | 24 | 32         | TH60-14-12-N    |
|                                                                                   | G3/8"  | G1/2" | 10   | 15,5 | 24 | 22         | TH60-38-12-N    |
|                                                                                   | G3/8"  | G3/4" | 11   | 17,5 | 30 | 54         | TH60-38-34-N-YA |
|                                                                                   | G1/2"  | G3/4" | 11   | 17,5 | 30 | 42         | TH60-12-34-N-YB |
|                                                                                   | G3/4"  | G1"   | 11,5 | 18,5 | 36 | 60         | TH60-34-10-N-YA |

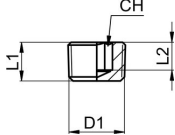
### TH60C Reducing nipple - External tapered thread

|                                                                                   |       |       |      |      |    |            |                  |
|-----------------------------------------------------------------------------------|-------|-------|------|------|----|------------|------------------|
|  | D1    | D2    | L1   | L2   | CH | Weight [g] | Type             |
|                                                                                   | G1/8" | R1/4" | 11   | 16   | 14 | 10,6       | TH60C-18-14-N    |
|                                                                                   | G1/8" | R3/8" | 11,5 | 16,5 | 17 | 20,7       | TH60C-18-38-N    |
|                                                                                   | G1/8" | R1/2" | 14   | 19,5 | 22 | 32,9       | TH60C-18-12-N    |
|                                                                                   | G1/4" | R3/8" | 11,5 | 16,5 | 17 | 12,6       | TH60C-14-38-N    |
|                                                                                   | G1/4" | R1/2" | 14   | 19,5 | 22 | 29,4       | TH60C-14-12-N    |
|                                                                                   | G3/8" | R1/2" | 14   | 19,5 | 22 | 23,3       | TH60C-38-12-N    |
|                                                                                   | G3/8" | R3/4" | 11   | 17,5 | 30 | 54         | TH60C-38-34-N    |
|                                                                                   | G1/2" | R3/4" | 16,5 | 23,5 | 27 | 45         | TH60C-12-34-N    |
|                                                                                   | G1/2" | R1"   | 19   | 27   | 34 | 132        | TH60C-12-10-N    |
|                                                                                   | G3/4" | R1"   | 19   | 27   | 34 | 104        | TH60C-34-10-N-YA |

### TH61C Elbow fitting - Tapered male thread

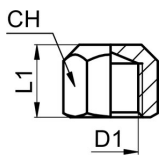
|                                                                                     |       |       |      |    |            |               |
|-------------------------------------------------------------------------------------|-------|-------|------|----|------------|---------------|
|  | D1    | D2    | L1   | CH | Weight [g] | Type          |
|                                                                                     | R1/8" | R1/8" | 17   | 10 | 10,5       | TH61C-18-N    |
|                                                                                     | R1/4" | R1/4" | 21,5 | 12 | 21         | TH61C-14-N    |
|                                                                                     | R3/8" | R3/8" | 24,5 | 15 | 37         | TH61C-38-N    |
|                                                                                     | R1/2" | R1/2" | 29,5 | 19 | 68,5       | TH61C-12-N    |
|                                                                                     | R3/4" | R3/4" | 34,5 | 22 | 100        | TH61C-34-N    |
|                                                                                     | R1"   | R1"   | 40,5 | 28 | 156        | TH61C-10-N-YA |

### TH64C Sealing screw with hexagon socket - Tapered thread

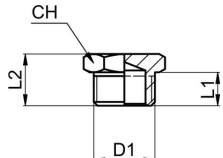
|                                                                                     |       |      |      |    |            |            |
|-------------------------------------------------------------------------------------|-------|------|------|----|------------|------------|
|  | D1    | L1   | L2   | CH | Weight [g] | Type       |
|                                                                                     | R1/8" | 7,5  | 6    | 5  | 3          | TH64C-18-N |
|                                                                                     | R1/4" | 11   | 8    | 6  | 8          | TH64C-14-N |
|                                                                                     | R3/8" | 11,5 | 8    | 10 | 14         | TH64C-38-N |
|                                                                                     | R1/2" | 14   | 9,5  | 10 | 27         | TH64C-12-N |
|                                                                                     | R3/4" | 15,5 | 10   | 14 | 52         | TH64C-34-N |
|                                                                                     | R1"   | 17,5 | 11,5 | 17 | 80         | TH64C-10-N |



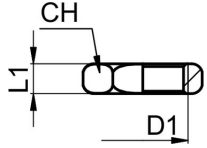
### TH65 Sealing cap

|  | D1    | L1   | CH | Weight [g] | Type         |
|-----------------------------------------------------------------------------------|-------|------|----|------------|--------------|
|                                                                                   | G1/8" | 10   | 14 | 9,6        | TH65-18-N    |
|                                                                                   | G1/4" | 13,5 | 17 | 16,7       | TH65-14-N    |
|                                                                                   | G3/8" | 14   | 20 | 21,3       | TH65-38-N    |
|                                                                                   | G1/2" | 16,5 | 24 | 31,3       | TH65-12-N    |
|                                                                                   | G3/4" | 18,5 | 30 | 52         | TH65-34-N-YA |
|                                                                                   | G1"   | 20   | 38 | 98         | TH65-10-N    |

### TH67 Sealing screw with external hexagon - Cylindrical thread

|  | D1     | L1 | L2   | CH1 | Weight [g] | Type         |
|-----------------------------------------------------------------------------------|--------|----|------|-----|------------|--------------|
|                                                                                   | M5x0,8 | 4  | 7    | 8   | 2          | TH67-M5-N    |
|                                                                                   | G1/8"  | 6  | 10   | 14  | 7,5        | TH67-18-N    |
|                                                                                   | G1/4"  | 8  | 13   | 17  | 13,5       | TH67-14-N    |
|                                                                                   | G3/8"  | 9  | 13,5 | 19  | 18         | TH67-38-N    |
|                                                                                   | G1/2"  | 10 | 15,5 | 24  | 31         | TH67-12-N    |
|                                                                                   | G3/4"  | 11 | 16,5 | 30  | 48,9       | TH67-34-N-YA |
|                                                                                   | G1"    | 13 | 19   | 38  | -          | TH67-10-N    |

### TH68 Locknut

|  | D1      | L1  | CH | Weight [g] | Type           |
|-------------------------------------------------------------------------------------|---------|-----|----|------------|----------------|
|                                                                                     | M10x1   | 4   | 14 | 3          | TH68-M10X1-N   |
|                                                                                     | M12x1   | 5   | 16 | 5          | TH68-M12X1-N   |
|                                                                                     | M14x1   | 5   | 18 | 5,5        | TH68-M14X1-N   |
|                                                                                     | M16x1   | 5   | 20 | 6          | TH68-M16X1-N   |
|                                                                                     | M20x1,5 | 4   | 27 | 10,5       | TH68-M20X1,5-N |
|                                                                                     | G1/8"   | 4,5 | 14 | 4          | TH68-18-N      |
|                                                                                     | G1/4"   | 5   | 17 | 5          | TH68-14-N      |
|                                                                                     | G3/8"   | 5,5 | 19 | 5          | TH68-38-N      |
|                                                                                     | G1/2"   | 6   | 24 | 8          | TH68-12-N      |

Illustrations non-binding

Design, dimensional and material changes reserved

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