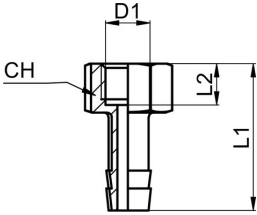


## Fittings/Hose nozzles - Brass



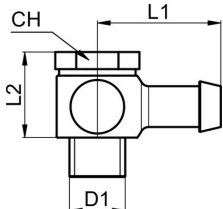
|                    |                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------|
| Connection         | 1/8" up to 2" optionally cylindrical to ISO 228/1 or tapered to ISO 7/1, M5 according to ISO R/262 |
| Material           | Plain brass                                                                                        |
| Medium             | Compressed air, neutral gases, Liquids that do not chemically attack the materials                 |
| Medium temperature | -20...+150°C, O-ring seal NBR -20...+110°C                                                         |
| Operating pressure | -1...20bar                                                                                         |

### HN12 screw-in Hose nozzle

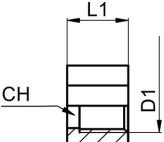
|  | D1    | for hose [mm] | L1   | L2   | CH | Weight [g] | Type         |
|-------------------------------------------------------------------------------------|-------|---------------|------|------|----|------------|--------------|
|                                                                                     | G1/8" | 6             | 31   | 6    | 12 | 8          | HN12-06-18-B |
|                                                                                     | G1/4" | 6             | 33   | 9    | 17 | 16         | HN12-06-14-B |
|                                                                                     | G3/8" | 6             | 33   | 9    | 19 | 16         | HN12-06-38-B |
|                                                                                     | G1/2" | 6             | 36   | 12   | 24 | 29         | HN12-06-12-B |
|                                                                                     | G1/8" | 9             | 31   | 9    | 14 | 12         | HN12-09-18-B |
|                                                                                     | G1/4" | 9             | 33   | 9    | 17 | 18         | HN12-09-14-B |
|                                                                                     | G3/8" | 9             | 33   | 9    | 19 | 19         | HN12-09-38-B |
|                                                                                     | G1/2" | 9             | 36   | 12   | 24 | 31         | HN12-09-12-B |
|                                                                                     | G1/4" | 13            | 39   | 9    | 17 | 22         | HN12-13-14-B |
|                                                                                     | G3/8" | 13            | 39   | 9    | 19 | 22         | HN12-13-38-B |
|                                                                                     | G1/2" | 13            | 43,5 | 12,5 | 24 | 38         | HN12-13-12-B |



## HN14 swivel Hose nozzle

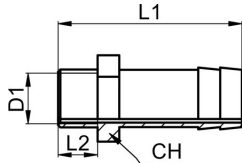
|  | D1    | for hose [mm] | L1 | L2 | CH | Weight [g] | Type         |
|-----------------------------------------------------------------------------------|-------|---------------|----|----|----|------------|--------------|
|                                                                                   | G1/8" | 6,5           | 26 | 20 | 14 | 35         | HN14-06-18-B |
|                                                                                   | G1/4" | 6,5           | 28 | 20 | 17 | 52         | HN14-06-14-B |
|                                                                                   | G1/4" | 9,5           | 29 | 20 | 17 | 54         | HN14-09-14-B |
|                                                                                   | G3/8" | 9,5           | 29 | 21 | 22 | 70         | HN14-09-38-B |
|                                                                                   |       |               |    |    |    |            |              |

## HN33 Union nut suitable for Hose nozzle with ball nipple

|  | D1         | for Hose nozzle [mm] | L1   | CH | Weight [g] | Type                |
|-----------------------------------------------------------------------------------|------------|----------------------|------|----|------------|---------------------|
|                                                                                   | G1/8"      | 8,5                  | 11   | 12 | 6          | HN33-04/06-18-B     |
|                                                                                   | G1/4"      | 11,5                 | 15   | 17 | 17         | HN33-04/06-14-B     |
|                                                                                   | G1/4"      | 11,5                 | 15,5 | 17 | 17         | HN33-09-14-B        |
|                                                                                   | G3/8"      | 15                   | 16,5 | 19 | 17         | HN33-04/06/09-38-B  |
|                                                                                   | G1/2"      | 19                   | 19,5 | 24 | 34         | HN33-06/09/13-12-B  |
|                                                                                   | G1/4" left | 12                   | 15   | 17 | 17         | HN33-04/06-14E-B    |
|                                                                                   | G3/8" left | 15                   | 14,5 | 19 | 15         | HN33-06/09-38E-B    |
|                                                                                   | G1/2" left | 6, 9,13              | 19,5 | 24 | 36         | HN33-06/09/13-12E-B |



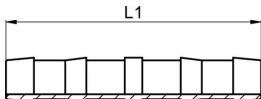
## HN38 screw-in Hose nozzle - Cylindrical thread, Internal cone for ball hose nipple

|  | D1         | for hose [mm] | L1   | L2 | CH       | Weight [g] | Type             |
|-----------------------------------------------------------------------------------|------------|---------------|------|----|----------|------------|------------------|
|                                                                                   | M5         | 4             | 15,5 | 5  | 7        | 2          | HN38-04-M5-B*    |
|                                                                                   | G1/8"      | 4             | 28   | 7  | 14       | 9          | HN38-04-18-B-C   |
|                                                                                   | G1/4"      | 4             | 30   | 8  | 17       | 16         | HN38-04-14-B-C   |
|                                                                                   | G3/8"      | 4             | 31   | 9  | 19       | 19         | HN38-04-38-B-C   |
|                                                                                   | G1/8"      | 6             | 33   | 7  | 14       | 11         | HN38-06-18-B-C   |
|                                                                                   | G1/4"      | 6             | 35   | 9  | 17       | 19         | HN38-06-14-B-C   |
|                                                                                   | G3/8"      | 6             | 36   | 9  | 19       | 26         | HN38-06-38-B-C   |
|                                                                                   | G1/2"      | 6             | 40   | 12 | 24       | 49         | HN38-06-12-B-C   |
|                                                                                   | G1/8"      | 9             | 33   | 7  | 14       | 15         | HN38-09-18-B*    |
|                                                                                   | G1/4"      | 9             | 35   | 9  | 17       | 19         | HN38-09-14-B-C   |
|                                                                                   | G3/8"      | 9             | 35   | 9  | 19       | 26         | HN38-09-38-B-C   |
|                                                                                   | G1/2"      | 9             | 39   | 12 | 24       | 50         | HN38-09-12-B-C   |
|                                                                                   | G3/4"      | 9             | 50   | 11 | 30       | 72         | HN38-09-34-B-C   |
|                                                                                   | G1/4"      | 13            | 41   | 9  | 17       | 21         | HN38-13-14-B*    |
|                                                                                   | G3/8"      | 13            | 42   | 9  | 19       | 25         | HN38-13-38-B-C   |
|                                                                                   | G1/2"      | 13            | 46   | 12 | 24       | 50         | HN38-13-12-B-C   |
|                                                                                   | G3/4"      | 13            | 52   | 16 | 32       | 106        | HN38-13-34-B-C   |
|                                                                                   | G1/2"      | 16            | 47   | 11 | 22       | 46         | HN38-16-12-B*    |
|                                                                                   | G1/2"      | 19            | 47   | 11 | 22       | 59         | HN38-19-12-B*    |
|                                                                                   | G3/4"      | 19            | 60   | 16 | 32       | 103        | HN38-19-34-B-C   |
|                                                                                   | G1"        | 27            | 51   | 11 | 38       | 86         | HN38-25-10-B*    |
|                                                                                   | G1 1/4"    | 27,5          | 51,5 | 14 | 47 round | 129        | HN38-25-114-B-A* |
|                                                                                   | G1"        | 33            | 57   | 12 | 37       | 132        | HN38-32-10-B*    |
|                                                                                   | G1 1/4"    | 33            | 58   | 13 | 50       | 170        | HN38-32-114-B*   |
|                                                                                   | G1 1/2"    | 40            | 68   | 14 | 55       | 257        | HN38-40-112-B*   |
|                                                                                   | G3/8" left | 6             | 48,5 | 10 | 19       | 26         | HN38-06-38E-B-C  |
|                                                                                   | G3/8" left | 9             | 48,5 | 10 | 19       | 31         | HN38-09-38E-B-C  |

\* without internal cone

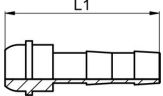
\* without internal cone

## HN38 double Hose nozzle

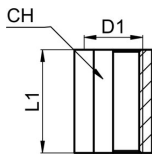
|  | for hose [mm] | L1 | Weight [g] | Type      |
|-------------------------------------------------------------------------------------|---------------|----|------------|-----------|
|                                                                                     | 6             | 72 | 15         | HN38-06-B |
|                                                                                     | 9             | 72 | 26         | HN38-09-B |
|                                                                                     | 13            | 48 | 20         | HN38-13-B |
|                                                                                     |               |    |            |           |



## HN76 Hose nozzle with ball nipple

|  | for thread | for hose [mm] | L1   | Weight [g] | Type         |
|-----------------------------------------------------------------------------------|------------|---------------|------|------------|--------------|
|                                                                                   | G1/8"      | 4             | 28   | 4          | HN76-04-18-B |
|                                                                                   | G1/4"      | 4             | 30,5 | 8          | HN76-04-14-B |
|                                                                                   | G1/8"      | 6             | 28   | 6          | HN76-06-18-B |
|                                                                                   | G1/4"      | 6             | 35,5 | 8          | HN76-06-14-B |
|                                                                                   | G3/8"      | 6             | 36   | 15         | HN76-06-38-B |
|                                                                                   | G1/2"      | 6             | 38   | 18         | HN76-06-12-B |
|                                                                                   | G1/4"      | 9             | 35,5 | 10         | HN76-09-14-B |
|                                                                                   | G3/8"      | 9             | 36   | 14         | HN76-09-38-B |
|                                                                                   | G1/2"      | 9             | 39   | 18         | HN76-09-12-B |
|                                                                                   | G1/2"      | 13            | 44   | 21         | HN76-13-12-B |

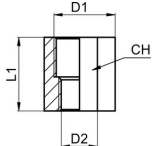
## TH13 Socket

|  | D1    | L1 | CH | Weight [g] | Type      |
|-----------------------------------------------------------------------------------|-------|----|----|------------|-----------|
|                                                                                   | M5    | 9  | 7  | 2          | TH13-M5-B |
|                                                                                   | G1/8" | 18 | 14 | 15         | TH13-18-B |
|                                                                                   | G1/4" | 26 | 17 | 27         | TH13-14-B |
|                                                                                   | G3/8" | 26 | 22 | 47         | TH13-38-B |

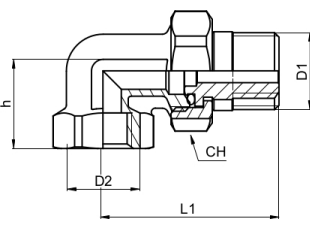
## TH13 Socket - round

|  | D1    | D2 | L1 | Weight [g] | Type      |
|-------------------------------------------------------------------------------------|-------|----|----|------------|-----------|
|                                                                                     | G1/2" | 26 | 31 | 45         | TH13-12-B |
|                                                                                     | G3/4" | 32 | 33 | 68         | TH13-34-B |
|                                                                                     | G1"   | 40 | 39 | 110        | TH13-10-B |

## TH13 Reducing socket

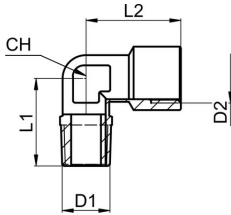
|  | D1    | D2    | L1   | CH       | Weight [g] | Type         |
|-------------------------------------------------------------------------------------|-------|-------|------|----------|------------|--------------|
|                                                                                     | G1/8" | G1/4" | 26   | 17       | 32         | TH13-18-14-B |
|                                                                                     | G1/4" | G3/8" | 26   | 22       | 60         | TH13-14-38-B |
|                                                                                     | G3/8" | G1/2" | 24,5 | 27 round | 95         | TH13-38-12-B |

## TH16 Elbow union nut - internal / external, O-ring seal NBR

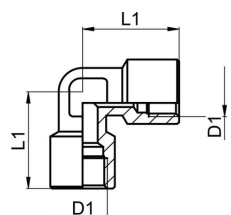
|  | D1     | D2     | h    | L1   | CH | Weight [g] | Type           |
|-------------------------------------------------------------------------------------|--------|--------|------|------|----|------------|----------------|
|                                                                                     | G3/8"  | G3/8"  | 18   | 47   | 27 | 115        | TH16-38-B-R    |
|                                                                                     | G1/2"  | G1/2"  | 22   | 51   | 30 | 116        | TH16-12-B-R-YA |
|                                                                                     | G3/4"  | G3/4"  | 26   | 59   | 37 | 188        | TH16-34-B-R-YA |
|                                                                                     | G1"    | G1"    | 35   | 69,5 | 46 | 342        | TH16-10-B-R-YA |
|                                                                                     | G11/4" | G11/4" | 45,5 | 80,5 | 52 | 557        | TH16-114-B-R   |
|                                                                                     | G11/2" | G11/2" | 53   | 89   | 66 | 952        | TH16-112-B-R   |



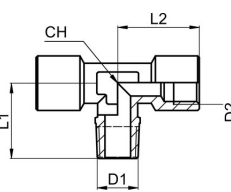
### TH16C Elbow fitting - internal / external

|  | D1    | D2    | L1   | L2   | CH   | Weight [g] | Type       |
|-----------------------------------------------------------------------------------|-------|-------|------|------|------|------------|------------|
|                                                                                   | R1/8" | G1/8" | 10   | 21,5 | 10   | 17         | TH16C-18-B |
|                                                                                   | R1/4" | G1/4" | 23,5 | 25   | 12,5 | 34         | TH16C-14-B |
|                                                                                   | R3/8" | G3/8" | 26   | 28,5 | 16,5 | 49         | TH16C-38-B |
|                                                                                   | R1/2" | G1/2" | 31   | 33,5 | 20,5 | 86         | TH16C-12-B |
|                                                                                   | R3/4" | G3/4" | 33   | 36,5 | 25   | 120        | TH16C-34-B |
|                                                                                   | R1"   | G1"   | 39   | 45   | 30   | 200        | TH16C-10-B |

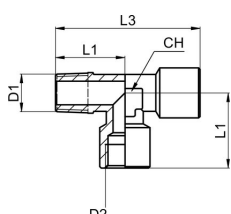
### TH17 Elbow fitting - internal / internal

|  | D1    | L1   | CH | Weight [g] | Type      |
|-----------------------------------------------------------------------------------|-------|------|----|------------|-----------|
|                                                                                   | G1/8" | 21   | 10 | 20         | TH17-18-B |
|                                                                                   | G1/4" | 25   | 13 | 40         | TH17-14-B |
|                                                                                   | G3/8" | 20   | -  | 55         | TH17-38-B |
|                                                                                   | G1/2" | 24,5 | -  | 115        | TH17-12-B |
|                                                                                   | G3/4" | 30   | -  | 152        | TH17-34-B |
|                                                                                   | G1"   | 36   | -  | 235        | TH17-10-B |

### TH21C T-piece - internal / external / internal

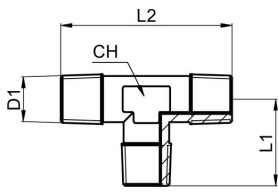
|  | D1    | D2    | L1 | L2   | CH | Weight [g] | Type       |
|------------------------------------------------------------------------------------|-------|-------|----|------|----|------------|------------|
|                                                                                    | R1/8" | G1/8" | 18 | 21   | 10 | 25         | TH21C-18-B |
|                                                                                    | R1/4" | G1/4" | 23 | 25   | 13 | 50         | TH21C-14-B |
|                                                                                    | R3/8" | G3/8" | 26 | 28   | 17 | 80         | TH21C-38-B |
|                                                                                    | R1/2" | G1/2" | 31 | 33,5 | 21 | 124        | TH21C-12-B |
|                                                                                    | R3/4" | G3/4" | 33 | 36,5 | 25 | 185        | TH21C-34-B |
|                                                                                    | R1"   | G1"   | 39 | 45   | 30 | 288        | TH21C-10-B |

### TH24C T-piece - internal / internal / external

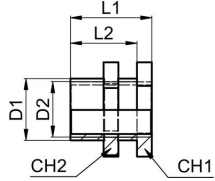
|  | D1    | D2    | L1   | L2   | L3   | CH | Weight [g] | Type       |
|-------------------------------------------------------------------------------------|-------|-------|------|------|------|----|------------|------------|
|                                                                                     | R1/8" | G1/8" | 15,5 | 22   | 37,5 | 10 | 24         | TH24C-18-B |
|                                                                                     | R1/4" | G1/4" | 26,5 | 23,5 | 49   | 13 | 50         | TH24C-14-B |
|                                                                                     | R3/8" | G3/8" | 25   | 28   | 54   | 17 | 75         | TH24C-38-B |
|                                                                                     | R1/2" | G1/2" | 31   | 33,5 | 64,5 | 21 | 125        | TH24C-12-B |
|                                                                                     | R3/4" | G3/4" | 36,5 | 36,5 | 69,5 | 25 | 174        | TH24C-34-B |
|                                                                                     | R1"   | G1"   | 39   | 45   | 84   | 30 | 282        | TH24C-10-B |



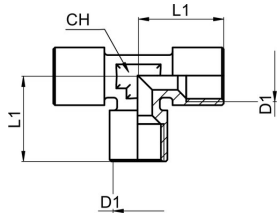
### TH26C T-piece - external / external / external

|  | D1    | L1   | L2   | CH | Weight [g] | Type       |
|-----------------------------------------------------------------------------------|-------|------|------|----|------------|------------|
|                                                                                   | R1/8" | 16   | 32   | 10 | 15         | TH26C-18-B |
|                                                                                   | R1/4" | 23,5 | 47   | 13 | 37         | TH26C-14-B |
|                                                                                   | R3/8" | 26   | 52   | 17 | 59         | TH26C-38-B |
|                                                                                   | R1/2" | 31   | 62   | 21 | 80         | TH26C-12-B |
|                                                                                   | R3/4" | 33   | 64,4 | 25 | 129        | TH26C-34-B |
|                                                                                   | R1"   | 39   | 78   | 30 | 210        | TH26C-10-B |

### TH28 Bulkhead nipple

|  | D1    | D2    | L1 | L2 | CH1 | CH2 | Weight [g] | Type         |
|-----------------------------------------------------------------------------------|-------|-------|----|----|-----|-----|------------|--------------|
|                                                                                   | G1/8" | M5    | 15 | 12 | 14  | 14  | 11         | TH28-18-M5-B |
|                                                                                   | G1/4" | G1/8" | 18 | 14 | 17  | 17  | 15         | TH28-14-18-B |
|                                                                                   | G3/8" | G1/4" | 22 | 18 | 22  | 22  | 16         | TH28-38-14-B |
|                                                                                   | G1/2" | G3/8" | 26 | 21 | 24  | 27  | 41         | TH28-12-38-B |

### TH29 T-piece - internal / internal / internal

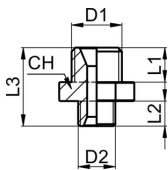
|  | D1      | L1   | CH   | Weight [g] | Type       |
|------------------------------------------------------------------------------------|---------|------|------|------------|------------|
|                                                                                    | G1/8"   | 21   | 9,5  | 28         | TH29-18-B  |
|                                                                                    | G1/4"   | 25   | 13   | 60         | TH29-14-B  |
|                                                                                    | G3/8"   | 22   | 20,5 | 70         | TH29-38-B  |
|                                                                                    | G1/2"   | 24   | 23   | 79         | TH29-12-B  |
|                                                                                    | G3/4"   | 28   | 29   | 138        | TH29-34-B  |
|                                                                                    | G1"     | 35   | 35   | 228        | TH29-10-B  |
|                                                                                    | G1 1/4" | 42,5 | 45   | 403        | TH29-114-B |
|                                                                                    | G1 1/2" | 47   | 52   | 593        | TH29-112-B |
|                                                                                    | G2"     | 55   | 64   | 852        | TH29-20-B  |

### TH38 Double nipple - Cylindrical thread

|  | D1          | L1   | L2   | L3   | CH | Weight [g] | Type         |
|-------------------------------------------------------------------------------------|-------------|------|------|------|----|------------|--------------|
|                                                                                     | M5          | 4,5  | 4,5  | 12,5 | 8  | 2          | TH38-M5-B-C  |
|                                                                                     | G1/8"       | 6,5  | 4,5  | 16   | 14 | 9          | TH38-18-B-C  |
|                                                                                     | G1/4"       | 9    | 9    | 22,5 | 14 | 14         | TH38-14-B    |
|                                                                                     | G3/8"       | 10   | 10   | 24   | 17 | 17,4       | TH38-38-B    |
|                                                                                     | G1/2"       | 10,5 | 10,5 | 25   | 21 | 29         | TH38-12-B    |
|                                                                                     | G3/4"       | 11,5 | 11,5 | 28   | 27 | 43         | TH38-34-B    |
|                                                                                     | G1"         | 15   | 15   | 36,5 | 34 | 93         | TH38-10-B    |
|                                                                                     | G1 1/4"     | 16   | 16   | 41,5 | 46 | 167        | TH38-114-B   |
|                                                                                     | G1 1/2"     | 17,5 | 17,5 | 46   | 48 | 210        | TH38-112-B   |
|                                                                                     | G2"         | 21   | 21   | 56   | 60 | 368        | TH38-20-B    |
|                                                                                     | G1/4" links | 9    | 9    | 23   | 17 | 18         | TH38-14E-B-C |
|                                                                                     | G3/8" links | 11   | 11   | 27   | 19 | 25         | TH38-38E-B-C |



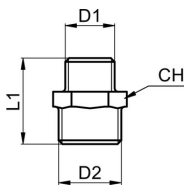
### TH38 Reducing double nipple - Cylindrical thread

|  | D1      | D2      | L1   | L2   | L3   | CH | Weight [g] | Type           |
|-----------------------------------------------------------------------------------|---------|---------|------|------|------|----|------------|----------------|
|                                                                                   | G1/8"   | M5      | 6,5  | 5    | 16   | 17 | 9          | TH38-M5-18-B-C |
|                                                                                   | G1/4"   | M5      | 9,5  | 5    | 19   | 17 | 15         | TH38-M5-14-B-C |
|                                                                                   | G1/4"   | G1/8"   | 9    | 6,5  | 20,5 | 17 | 18         | TH38-18-14-B-C |
|                                                                                   | G3/8"   | G1/8"   | 9    | 7    | 21   | 19 | 25         | TH38-18-38-B-C |
|                                                                                   | G3/8"   | G1/4"   | 10   | 9    | 23   | 17 | 17         | TH38-14-38-B   |
|                                                                                   | G1/2"   | G1/4"   | 11   | 9    | 24,5 | 21 | 26         | TH38-14-12-B   |
|                                                                                   | G1/2"   | G3/8"   | 12   | 10   | 28   | 24 | 50         | TH38-38-12-B-C |
|                                                                                   | G3/4"   | G3/8"   | 15,5 | 10   | 34   | 32 | 108        | TH38-38-34-B-C |
|                                                                                   | G3/4"   | G1/2"   | 11,5 | 10,5 | 27   | 27 | 43         | TH38-12-34-B   |
|                                                                                   | G1"     | G1/2"   | 15   | 11,5 | 33   | 34 | 80         | TH38-12-10-B   |
|                                                                                   | G1"     | G3/4"   | 13   | 11,5 | 30   | 34 | 70         | TH38-34-10-B   |
|                                                                                   | G1 1/4" | G1"     | 16   | 15   | 40   | 42 | 156        | TH38-10-114-B  |
|                                                                                   | G1 1/2" | G1 1/4" | 17   | 16   | 45   | 48 | 218        | TH38-114-112-B |
|                                                                                   | G2"     | G1 1/2" | 21   | 17   | 52   | 60 | 344        | TH38-112-20-B  |

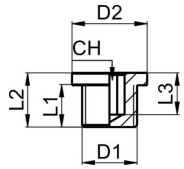
### TH38C Double nipple - Tapered thread

|  | D1    | L1 | L2 | L3   | CH | Weight [g] | Type       |
|-----------------------------------------------------------------------------------|-------|----|----|------|----|------------|------------|
|                                                                                   | R1/4" | 11 | 11 | 26,5 | 14 | 15         | TH38C-14-B |
|                                                                                   | R3/8" | 11 | 11 | 26,5 | 17 | 20         | TH38C-38-B |
|                                                                                   | R1/2" | 14 | 14 | 33   | 22 | 40         | TH38C-12-B |
|                                                                                   | R3/4" | 16 | 16 | 39,5 | 27 | 68         | TH38C-34-B |
|                                                                                   | R1"   | 19 | 19 | 44,5 | 34 | 107        | TH38C-10-B |

### TH38C Detachable double nipple - Tapered thread, metal-to-metal sealing

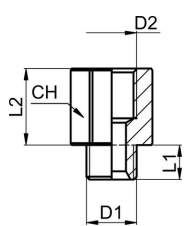
|  | D1    | D2    | L1   | CH | Weight [g] | Type            |
|-------------------------------------------------------------------------------------|-------|-------|------|----|------------|-----------------|
|                                                                                     | R1/8" | R1/8" | 27   | 15 | 17         | TH38C-18-B-Z    |
|                                                                                     | R1/8" | R1/4" | 30   | 15 | 23         | TH38C-18-14-B-Z |
|                                                                                     | R1/4" | R1/4" | 33,5 | 19 | 34         | TH38C-14-B-Z    |
|                                                                                     | R1/4" | R3/8" | 35   | 19 | 44         | TH38C-14-38-B-Z |
|                                                                                     | R3/8" | R3/8" | 37   | 22 | 52         | TH38C-38-B-Z    |
|                                                                                     | R1/2" | R1/2" | 44,5 | 27 | 81         | TH38C-12-B-Z    |
|                                                                                     | R3/4" | R3/4" | 54   | 36 | 193        | TH38C-34-B-Z    |
|                                                                                     | R1"   | R1"   | 65   | 46 | 353        | TH38C-10-B-Z    |

### TH50 Sealing screw with hexagon socket - Cylindrical thread

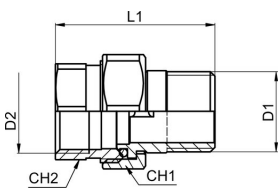
|  | D1    | D2 | L1 | L2   | L3  | CH | Weight [g] | Type      |
|-------------------------------------------------------------------------------------|-------|----|----|------|-----|----|------------|-----------|
|                                                                                     | G1/8" | 14 | 8  | 11   | 5,5 | 5  | 6          | TH50-18-B |
|                                                                                     | G1/4" | 18 | 12 | 15   | 11  | 6  | 14         | TH50-14-B |
|                                                                                     | G3/8" | 22 | 12 | 15   | 11  | 8  | 23         | TH50-38-B |
|                                                                                     | G1/2" | 26 | 10 | 14,5 | 10  | 10 | 33         | TH50-12-B |



### TH59 Reducing nipple - Cylindrical thread

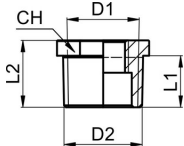
|  | D1    | D2    | L1   | L2   | CH | Weight [g] | Type           |
|-----------------------------------------------------------------------------------|-------|-------|------|------|----|------------|----------------|
|                                                                                   | M5    | M5    | 5    | 10   | 8  | 3          | TH59-M5-B-C    |
|                                                                                   | M5    | G1/8" | 5    | 12   | 14 | 11         | TH59-M5-18-B-C |
|                                                                                   | G1/8" | M5    | 7    | 10   | 14 | 15         | TH59-18-M5-B-C |
|                                                                                   | G1/8" | G1/8" | 8    | 15   | 14 | 17         | TH59-18-B-C    |
|                                                                                   | G1/8" | G1/4" | 8    | 18   | 17 | 26         | TH59-18-14-B-C |
|                                                                                   | G1/4" | G1/8" | 9    | 19   | 17 | 35         | TH59-14-18-B-C |
|                                                                                   | G1/4" | G1/4" | 9    | 19   | 17 | 29         | TH59-14-B-C    |
|                                                                                   | G1/4" | G3/8" | 9    | 20   | 19 | 30         | TH59-14-38-B-C |
|                                                                                   | G3/8" | G1/4" | 11   | 19   | 19 | 40         | TH59-38-14-B   |
|                                                                                   | G3/8" | G3/8" | 10   | 12,5 | 21 | 23         | TH59-38-B      |
|                                                                                   | G3/8" | G1/2" | 10   | 14,5 | 24 | 33         | TH59-38-12-B   |
|                                                                                   | G1/2" | G3/8" | 11   | 11   | 22 | 33         | TH59-12-38-B   |
|                                                                                   | G1/2" | G1/2" | 11,5 | 14,5 | 24 | 37         | TH59-12-B      |
|                                                                                   | G1/2" | G3/4" | 11,5 | 15   | 31 | 60         | TH59-12-34-B   |

### TH59 Straight union nut - O-ring seal (-R) NBR, Flat gasket (-F)

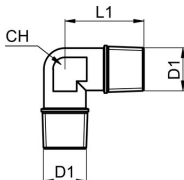
|  | D1      | D2      | L1 | CH1 | CH2 | Weight [g] | Type           |
|-----------------------------------------------------------------------------------|---------|---------|----|-----|-----|------------|----------------|
|                                                                                   | G3/8"   | G3/8"   | 41 | 27  | 21  | 61         | TH59-38-B-F    |
|                                                                                   | G1/2"   | G1/2"   | 46 | 30  | 27  | 102        | TH59-12-B-R-YA |
|                                                                                   | G3/4"   | G3/4"   | 52 | 37  | 31  | 153        | TH59-34-B-R-YA |
|                                                                                   | G1"     | G1"     | 60 | 46  | 38  | 272        | TH59-10-B-R-YA |
|                                                                                   | G1 1/4" | G1 1/4" | 69 | 52  | 48  | 414        | TH59-114-B-R   |
|                                                                                   | G1 1/2" | G1 1/2" | 73 | 66  | 55  | 764        | TH59-112-B-R   |



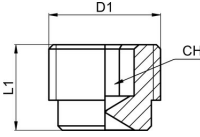
## TH60 Reducing nipple

|  | D1       | D2      | L1   | L2   | CH | Weight [g] | Type           |
|-----------------------------------------------------------------------------------|----------|---------|------|------|----|------------|----------------|
|                                                                                   | M5       | G1/8"   | 7    | 10   | 14 | 7          | TH60-18-M5-B   |
|                                                                                   | M5       | G1/4"   | 9    | 13   | 17 | 15         | TH60-14-M5-B   |
|                                                                                   | RP1/8"   | R1/4"   | 11   | 15,5 | 14 | 9          | TH60-14-18-B   |
|                                                                                   | RP1/8"   | R3/8"   | 11,5 | 16   | 17 | 16         | TH60-38-18-B   |
|                                                                                   | RP1/4"   | R3/8"   | 11,5 | 16   | 17 | 12         | TH60-38-14-B   |
|                                                                                   | RP1/8"   | R1/2"   | 13,5 | 18   | 21 | 30         | TH60-12-18-B   |
|                                                                                   | RP1/4"   | R1/2"   | 13,5 | 18   | 21 | 26         | TH60-12-14-B   |
|                                                                                   | G3/8"    | G1/2"   | 10,5 | 14,5 | 21 | 16         | TH60-12-38-B   |
|                                                                                   | G3/8"    | G3/4"   | 13   | 18,5 | 27 | 42         | TH60-34-38-B   |
|                                                                                   | G1/2"    | G3/4"   | 13,5 | 20   | 27 | 36         | TH60-34-12-B   |
|                                                                                   | G3/8"    | G1"     | 15,5 | 22,5 | 33 | 83         | TH60-10-38-B   |
|                                                                                   | G1/2"    | G1"     | 13   | 19   | 36 | 76         | TH60-10-12-B   |
|                                                                                   | G3/4"    | G1"     | 13   | 19   | 36 | 58         | TH60-10-34-B   |
|                                                                                   | G1/2"    | G1 1/4" | 17   | 25   | 43 | 159        | TH60-114-12-B  |
|                                                                                   | G3/4"    | G1 1/4" | 16   | 25   | 43 | 156        | TH60-114-34-B  |
|                                                                                   | G1"      | G1 1/4" | 17   | 25   | 43 | 117        | TH60-114-10-B  |
|                                                                                   | G3/4"    | G1 1/2" | 17   | 26   | 48 | 218        | TH60-112-34-B  |
|                                                                                   | G1"      | G1 1/2" | 17   | 26   | 48 | 178        | TH60-112-10-B  |
|                                                                                   | G1 1/4"  | G1 1/2" | 17   | 26   | 48 | 100        | TH60-112-114-B |
|                                                                                   | RP1"     | R2"     | 21   | 32   | 60 | 325        | TH60-20-10-B   |
|                                                                                   | RP1 1/4" | R2"     | 21   | 32   | 60 | 327        | TH60-20-114-B  |
|                                                                                   | RP1 1/2" | R2"     | 21   | 32   | 60 | 260        | TH60-20-112-B  |

## TH61C Elbow fitting - external / external

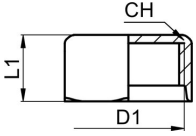
|  | D1    | L1   | CH | Weight [g] | Type       |
|-------------------------------------------------------------------------------------|-------|------|----|------------|------------|
|                                                                                     | R1/8" | 18,5 | 10 | 11         | TH61C-18-B |
|                                                                                     | R1/4" | 23,5 | 13 | 28         | TH61C-14-B |
|                                                                                     | R3/8" | 26   | 17 | 41         | TH61C-38-B |
|                                                                                     | R1/2" | 31   | 21 | 70         | TH61C-12-B |
|                                                                                     | R3/4" | 33   | 25 | 98         | TH61C-34-B |
|                                                                                     | R1"   | 39   | 30 | 166        | TH61C-10-B |

## TH64 Sealing screw with hexagon socket - Cylindrical thread, without collar

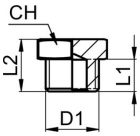
|  | D1    | L1 | CH | Weight [g] | Type         |
|-------------------------------------------------------------------------------------|-------|----|----|------------|--------------|
|                                                                                     | G1/8" | 8  | 5  | 3          | TH64-18-B-YA |
|                                                                                     | G1/4" | 10 | 6  | 6          | TH64-14-B    |



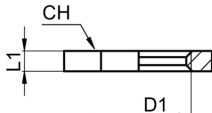
## TH65 Sealing cap

|  | D1      | L1   | CH   | Weight [g] | Type       |
|-----------------------------------------------------------------------------------|---------|------|------|------------|------------|
|                                                                                   | G1/8"   | 10   | 13   | 7          | TH65-18-B  |
|                                                                                   | G1/4"   | 10   | 16   | 10         | TH65-14-B  |
|                                                                                   | G3/8"   | 12   | 20   | 12         | TH65-38-B  |
|                                                                                   | G1/2"   | 16   | 30   | 40         | TH65-12-B  |
|                                                                                   | G3/4"   | 16   | 30   | 37         | TH65-34-B  |
|                                                                                   | G1"     | 18,5 | 38,5 | 76         | TH65-10-B  |
|                                                                                   | G1 1/4" | 24   | 48,5 | 150        | TH65-114-B |
|                                                                                   | G1 1/2" | 22,5 | 60   | 239        | TH65-112-B |
|                                                                                   | G2"     | 17   | 66   | 200        | TH65-20-B  |

## TH67 Sealing screw with external hexagon - Cylindrical thread

|  | D1    | L1  | L2   | CH | Weight [g] | Type      |
|-----------------------------------------------------------------------------------|-------|-----|------|----|------------|-----------|
|                                                                                   | G1/8" | 6,5 | 10   | 14 | 7          | TH67-18-B |
|                                                                                   | G1/4" | 8   | 13   | 17 | 13         | TH67-14-B |
|                                                                                   | G3/8" | 10  | 15,5 | 17 | 12         | TH67-38-B |
|                                                                                   | G1/2" | 10  | 15   | 21 | 20         | TH67-12-B |
|                                                                                   |       |     |      |    |            |           |

## TH-68 Locknut

|  | D1      | L1  | CH | Weight [g] | Type           |
|-------------------------------------------------------------------------------------|---------|-----|----|------------|----------------|
|                                                                                     | G1/8"   | 4   | 14 | 3          | TH68-18-B      |
|                                                                                     | G1/4"   | 4,5 | 17 | 4          | TH68-14-B      |
|                                                                                     | G3/8"   | 4,5 | 22 | 7          | TH68-38-B      |
|                                                                                     | G1/2"   | 5   | 27 | 12         | TH68-12-B      |
|                                                                                     | G3/4"   | 6   | 32 | 17         | TH68-34-B      |
|                                                                                     | G1"     | 8   | 38 | 27         | TH68-10-B      |
|                                                                                     | M10x1   | 4,5 | 14 | 3          | TH68-M10X1-B   |
|                                                                                     | M12x1   | 5   | 17 | 3          | TH68-M12X1-B   |
|                                                                                     | M14x1   | 4   | 19 | 5          | TH68-M14X1-B   |
|                                                                                     | M16x1   | 4,5 | 19 | 2          | TH68-M16X1-B   |
|                                                                                     | M20x1,5 | 5   | 22 | 12         | TH68-M20X1,5-B |
|                                                                                     | M22x1   | 5   | 28 | 9          | TH68-M22X1-B   |
|                                                                                     | M28x1,5 | 6   | 36 | 26         | TH68-M28X1,5-B |

Illustrations non-binding

Design, dimensional and material changes reserved

Pneumatics / Fittings and couplings / Fittings / Hose nozzles / Fittings/Hose nozzles - Brass - Pressure 20bar

