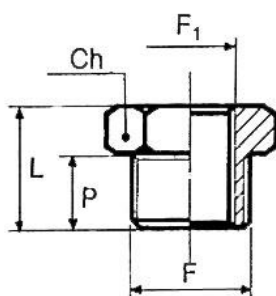


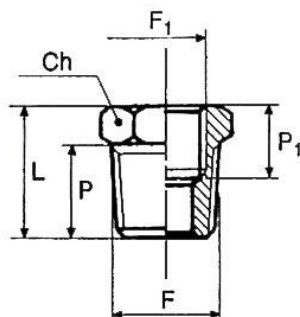
Suitable for air, water, oil, steam, etc.



251.02/N

## Reducing nipple

| Art. No.                                                                             | Type No. | Male thread<br>F | Female thread<br>F1 | Ch<br>mm | P<br>mm | L<br>mm |
|--------------------------------------------------------------------------------------|----------|------------------|---------------------|----------|---------|---------|
| 111330                                                                               | 251.00/N | G 1/8            | M5                  | 14       | 6.0     | 10.5    |
| 111331                                                                               | 251.01/N | G 1/4            | G 1/8               | 17       | 8.0     | 13.0    |
| 111331 = discontinued product. No longer available. New product 134710 (MSN251K1418) |          |                  |                     |          |         |         |
| 111332                                                                               | 251.06/N | G 3/8            | G 1/8               | 20       | 9.0     | 14.0    |
| 111332 = discontinued product. No longer available. New product 134711 (MSN251K3818) |          |                  |                     |          |         |         |
| 101040                                                                               | 251.02/N | G 3/8            | G 1/4               | 20       | 9.0     | 14.0    |
| 101040 = discontinued product. No longer available. New product 134712 (MSN251K3814) |          |                  |                     |          |         |         |
| 111333                                                                               | 251.08/N | G 1/2            | G 1/8               | 24       | 10.0    | 15.5    |
| 111333 = discontinued product. No longer available. New product 134713 (MSN251K1218) |          |                  |                     |          |         |         |
| 111334                                                                               | 251.07/N | G 1/2            | G 1/4               | 25       | 10.0    | 15.5    |
| 111334 = discontinued product. No longer available. New product 134714 (MSN251K1214) |          |                  |                     |          |         |         |
| 111335                                                                               | 251.03/N | G 1/2            | G 3/8               | 25       | 10.0    | 15.5    |
| 111335 = discontinued product. No longer available. New product 134715 (MSN251K1238) |          |                  |                     |          |         |         |
| 111336                                                                               | 251.09/N | G 3/4            | G 3/8               | 30       | 11.0    | 17.5    |
| 111336 = discontinued product. No longer available. New product 134717 (MSN251K3438) |          |                  |                     |          |         |         |
| 111337                                                                               | 251.10/N | G 3/4            | G 1/2               | 30       | 11.0    | 17.5    |
| 111337 = discontinued product. No longer available. New product 134718 (MSN251K3412) |          |                  |                     |          |         |         |
| 111338                                                                               | 251.11/N | G 1              | G 1/2               | 36       | 12.0    | 19.0    |
| 111338 = discontinued product. No longer available. New product 134719 (MSN251K0112) |          |                  |                     |          |         |         |
| 111339                                                                               | 251.12/N | G 1              | G 3/4               | 36       | 11.5    | 19.0    |
| 111339 = discontinued product. No longer available. New product 134720 (MSN251K0134) |          |                  |                     |          |         |         |



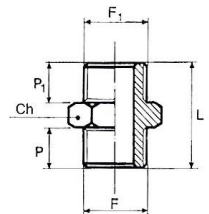
235.04/N

**Reducing nipple, conical male thread, parallel female thread**

| Art. No. | Type No. | Male thread<br>F | Female thread<br>F1 | Ch<br>mm | P<br>mm | P1<br>mm | L<br>mm |
|----------|----------|------------------|---------------------|----------|---------|----------|---------|
| 111340   | 235.01/N | R 1/4            | G 1/8               | 14       | 11.0    | 7.0      | 16.0    |
| 111341   | 235.02/N | R 3/8            | G 1/8               | 17       | 11.5    | 7.0      | 17.0    |
| 111342   | 235.03/N | R 3/8            | G 1/4               | 17       | 11.5    | 8.0      | 17.0    |
| 111343   | 235.04/N | R 1/2            | G 1/8               | 22       | 14.0    | 8.0      | 19.5    |
| 111344   | 235.05/N | R 1/2            | G 1/4               | 22       | 14.0    | 8.0      | 20.0    |
| 111345   | 235.06/N | R 1/2            | G 3/8               | 22       | 14.0    | 10.0     | 20.0    |
| 111346   | 235.07/N | R 3/4            | G 3/8               | 27       | 16.5    | 11.5     | 23.0    |
| 111347   | 235.08/N | R 3/4            | G 1/2               | 27       | 16.5    | 14.0     | 23.0    |
| 111348   | 235.09/N | R 1              | G 1/2               | 34       | 16.0    | 15.0     | 25.0    |
| 111349   | 235.10/N | R 1              | G 3/4               | 34       | 18.0    | 15.0     | 25.0    |

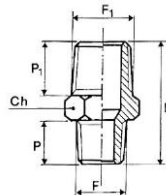
## Double nipple, parallel male thread

| Art. No.                                                                            | Type No. | Thread 1<br>F | Thread 2<br>F1 | Ch<br>mm | P<br>mm | P1<br>mm | L<br>mm |
|-------------------------------------------------------------------------------------|----------|---------------|----------------|----------|---------|----------|---------|
| 111350                                                                              | 252.31   | M5            | M5             | 8        | 4.0     | 4.0      | 11.5    |
| 111350 = discontinued product. No longer available. New product 134776 (MSN252M55)  |          |               |                |          |         |          |         |
| 111351                                                                              | 252.32   | M5            | G 1/8          | 14       | 4.0     | 6.0      | 14.5    |
| 111351 = discontinued product. No longer available. New product 134777 (MSN252M518) |          |               |                |          |         |          |         |
| 111352                                                                              | 252.33   | G 1/8         | G 1/8          | 14       | 6.0     | 6.0      | 17.0    |
| 111352 = discontinued product. No longer available. New product 131891 (MSN2521818) |          |               |                |          |         |          |         |
| 111353                                                                              | 252.34   | G 1/8         | G 1/4          | 17       | 6.0     | 8.0      | 19.0    |
| 111353 = discontinued product. No longer available. New product 131892 (MSN2521814) |          |               |                |          |         |          |         |
| 111354                                                                              | 252.35   | G 1/8         | G 3/8          | 20       | 6.0     | 9.0      | 20.0    |
| 111354 = discontinued product. No longer available. New product 131893 (MSN2521838) |          |               |                |          |         |          |         |
| 100770                                                                              | 252.61   | G 1/4         | G 1/4          | 17       | 8.0     | 8.0      | 21.0    |
| 100770 = discontinued product. No longer available. New product 131894 (MSN2521414) |          |               |                |          |         |          |         |
| 111355                                                                              | 252.62   | G 1/4         | G 3/8          | 20       | 8.0     | 9.0      | 22.0    |
| 111355 = discontinued product. No longer available. New product 131895 (MSN2521438) |          |               |                |          |         |          |         |
| 111356                                                                              | 252.63   | G 1/4         | G 1/2          | 25       | 8.0     | 10.0     | 24.0    |
| 111356 = discontinued product. No longer available. New product 131896 (MSN2521412) |          |               |                |          |         |          |         |
| 100834                                                                              | 252.64   | G 3/8         | G 3/8          | 20       | 9.0     | 9.0      | 24.0    |
| 100834 = discontinued product. No longer available. New product 131897 (MSN2523838) |          |               |                |          |         |          |         |
| 111357                                                                              | 252.65   | G 3/8         | G 1/2          | 25       | 9.0     | 10.0     | 25.5    |
| 111357 = discontinued product. No longer available. New product 131898 (MSN2523812) |          |               |                |          |         |          |         |
| 111358                                                                              | 252.65-1 | G 3/8         | G 3/4          | 27       | 9.0     | 12.0     | 27.0    |
| 111358 = discontinued product. No longer available. New product 131899 (MSN2523834) |          |               |                |          |         |          |         |
| 100838                                                                              | 252.66   | G 1/2         | G 1/2          | 25       | 10.0    | 10.0     | 26.5    |
| 100838 = discontinued product. No longer available. New product 131900 (MSN2521212) |          |               |                |          |         |          |         |
| 111359                                                                              | 252.67   | G 1/2         | G 3/4          | 30       | 10.0    | 11.0     | 27.5    |
| 111359 = discontinued product. No longer available. New product 131901 (MSN2521234) |          |               |                |          |         |          |         |
| 111360                                                                              | 252.67-1 | G 1/2         | G 1            | 34       | 10.5    | 15.0     | 32.5    |
| 111360 = discontinued product. No longer available. New product 131902 (MSN252121)  |          |               |                |          |         |          |         |
| 111361                                                                              | 252.68   | G 3/4         | G 1            | 36       | 12.0    | 11.0     | 30.0    |
| 111361 = discontinued product. No longer available. New product 131903 (MSN252341)  |          |               |                |          |         |          |         |
| 111362                                                                              | 252.69   | G 3/4         | G 3/4          | 30       | 11.0    | 11.0     | 28.0    |
| 111362 = discontinued product. No longer available. New product 131904 (MSN2523434) |          |               |                |          |         |          |         |
| 111363                                                                              | 252.70   | G 1           | G 1            | 36       | 12.0    | 12.0     | 31.0    |
| 111363 = discontinued product. No longer available. New product 131905 (MSN25211)   |          |               |                |          |         |          |         |
| 111364                                                                              | 252.71   | G 1           | G 1 1/4        | 43       | 15.0    | 16.0     | 38.0    |
| 111365                                                                              | 252.71-1 | G 1           | G 1 1/2        | 50       | 15.0    | 16.0     | 38.5    |
| 111366                                                                              | 252.71-2 | G 1           | G 2            | 60       | 15.0    | 18.0     | 42.0    |
| 111367                                                                              | 252.72   | G 1 1/4       | G 1 1/4        | 42       | 16.0    | 16.0     | 39.0    |
| 111368                                                                              | 252.72-1 | G 1 1/4       | G 1 1/2        | 50       | 16.0    | 16.0     | 40.0    |
| 111369                                                                              | 252.72-2 | G 1 1/4       | G 2            | 60       | 16.0    | 18.0     | 43.0    |
| 111370                                                                              | 252.73   | G 1 1/2       | G 1 1/2        | 50       | 16.0    | 16.0     | 39.5    |
| 111371                                                                              | 252.73-1 | G 1 1/2       | G 2            | 60       | 17.5    | 18.0     | 44.5    |
| 111372                                                                              | 252.74   | G 2           | G 2            | 60       | 17.5    | 17.5     | 44.0    |
| 111373                                                                              | 252.74-1 | G 2           | G 2 1/2        | 77       | 19.0    | 24.0     | 54.0    |
| 111374                                                                              | 252.74-2 | G 2           | G 3            | 89       | 20.0    | 20.0     | 50.0    |



252.62

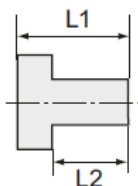
|                                                                                       |          |         |         |    |      |      |      |
|---------------------------------------------------------------------------------------|----------|---------|---------|----|------|------|------|
| 111375                                                                                | 252.74-3 | G 2 1/2 | G 2 1/2 | 77 | 24.0 | 24.0 | 59.0 |
| 111375 = discontinued product. No longer available. New product 131917 (MSN252212212) |          |         |         |    |      |      |      |
| 111376                                                                                | 252.74-4 | G 2 1/2 | G 3     | 89 | 22.5 | 20.0 | 52.5 |
| 111377                                                                                | 252.74-5 | G 3     | G 3     | 89 | 24.5 | 24.5 | 60.0 |
| 111377 = discontinued product. No longer available. New product 131920 (MSN25233)     |          |         |         |    |      |      |      |



1252.66

## Double nipple, conical male thread

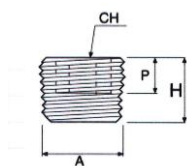
| Art. No.                                                                             | Type No. | Thread 1<br>F | Thread 2<br>F1 | Ch<br>mm | P<br>mm | P1<br>mm | L<br>mm |
|--------------------------------------------------------------------------------------|----------|---------------|----------------|----------|---------|----------|---------|
| 111378                                                                               | 1252.33  | R 1/8         | R 1/8          | 12       | 8.0     | 8.0      | 21.0    |
| 111378 = discontinued product. No longer available. New product 134782 (MSN252R1818) |          |               |                |          |         |          |         |
| 111379                                                                               | 1252.34  | R 1/8         | R 1/4          | 14       | 8.0     | 11.0     | 24.0    |
| 111379 = discontinued product. No longer available. New product 134783 (MSN252R1814) |          |               |                |          |         |          |         |
| 111380                                                                               | 1252.35  | R 1/8         | R 3/8          | 17       | 8.0     | 11.5     | 25.0    |
| 111380 = discontinued product. No longer available. New product 134784 (MSN252R1838) |          |               |                |          |         |          |         |
| 111381                                                                               | 1252.61  | R 1/4         | R 1/4          | 14       | 11.0    | 11.0     | 27.0    |
| 111381 = discontinued product. No longer available. New product 134785 (MSN252R1414) |          |               |                |          |         |          |         |
| 111382                                                                               | 1252.62  | R 1/4         | R 3/8          | 17       | 11.0    | 11.5     | 28.0    |
| 111382 = discontinued product. No longer available. New product 134786 (MSN252R1438) |          |               |                |          |         |          |         |
| 111383                                                                               | 1252.63  | R 1/4         | R 1/2          | 22       | 11.0    | 14.0     | 32.0    |
| 111383 = discontinued product. No longer available. New product 134787 (MSN252R1412) |          |               |                |          |         |          |         |
| 111384                                                                               | 1252.64  | R 3/8         | R 3/8          | 17       | 11.5    | 11.5     | 29.0    |
| 111384 = discontinued product. No longer available. New product 134788 (MSN252R3838) |          |               |                |          |         |          |         |
| 111385                                                                               | 1252.65  | R 3/8         | R 1/2          | 22       | 11.5    | 14.0     | 32.5    |
| 111386                                                                               | 1252.66  | R 1/2         | R 1/2          | 22       | 14.0    | 14.0     | 35.0    |
| 111386 = discontinued product. No longer available. New product 134792 (MSN252R1212) |          |               |                |          |         |          |         |
| 111387                                                                               | 1252.67  | R 1/2         | R 3/4          | 27       | 14.0    | 16.5     | 37.0    |
| 111388                                                                               | 1252.69  | R 3/4         | R 3/4          | 27       | 16.5    | 16.5     | 40.0    |
| 111388 = discontinued product. No longer available. New product 134795 (MSN252R3434) |          |               |                |          |         |          |         |
| 111389                                                                               | 1252.68  | R 3/4         | R 1            | 34       | 16.5    | 19.0     | 42.5    |
| 111390                                                                               | 1252.70  | R 1           | R 1            | 34       | 19.0    | 19.0     | 45.5    |
| 111390 = discontinued product. No longer available. New product 134797 (MSN252R11)   |          |               |                |          |         |          |         |



252.92-N

## Hexagon socket screw plug with collar

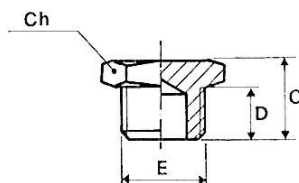
| Art. No.                                                                            | Type No.  | Thread | L1<br>mm | L2<br>mm | a/f<br>mm |
|-------------------------------------------------------------------------------------|-----------|--------|----------|----------|-----------|
| 111391                                                                              | 252.91-N  | G 1/8  | 11,0     | 8,0      | 5         |
| 111391 = discontinued product. No longer available. New product 137910 (MSN290MS18) |           |        |          |          |           |
| 111392                                                                              | 252.92-N  | G 1/4  | 13,0     | 10,0     | 6         |
| 111392 = discontinued product. No longer available. New product 137911 (MSN290MS14) |           |        |          |          |           |
| 111393                                                                              | 252.93-N  | G 3/8  | 15,0     | 12,0     | 8         |
| 111393 = discontinued product. No longer available. New product 137912 (MSN290MS38) |           |        |          |          |           |
| 111394                                                                              | 252.94-N  | G 1/2  | 18,0     | 14,0     | 10        |
| 111394 = discontinued product. No longer available. New product 137913 (MSN290MS12) |           |        |          |          |           |
| 111395                                                                              | 252.94-2N | G 3/4  | 24,0     | 20,0     | 12        |
| 111396                                                                              | 252.94-3N | G1     | 27,0     | 22,0     | 17        |



253.101

**Hexagon socket screw plug without collar**

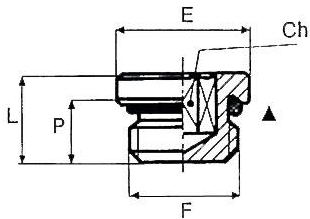
| Art. No.                                                                             | Type No.  | Thread<br>A | H<br>mm | P<br>mm | Ch<br>mm |
|--------------------------------------------------------------------------------------|-----------|-------------|---------|---------|----------|
| 111397                                                                               | 253.101-N | R 1/8       | 8.0     | 4,0     | 5        |
| 111397 = discontinued product. No longer available. New product 137938 (MSN290ROB18) |           |             |         |         |          |
| 111398                                                                               | 253.102-N | R 1/4       | 10.0    | 5,0     | 6        |
| 111398 = discontinued product. No longer available. New product 137939 (MSN290ROB14) |           |             |         |         |          |
| 111399                                                                               | 253.103-N | R 3/8       | 10.0    | 6,0     | 8        |
| 111399 = discontinued product. No longer available. New product 137940 (MSN290ROB38) |           |             |         |         |          |
| 111400                                                                               | 253.104-N | R 1/2       | 12.0    | 8,0     | 10       |
| 111400 = discontinued product. No longer available. New product 137941 (MSN290ROB12) |           |             |         |         |          |



252.96/N

**Hexagon head screw plug**

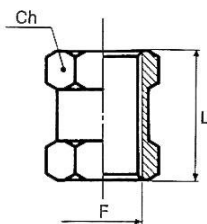
| Art. No.                                                                            | Type No.  | Thread<br>E | C<br>mm | D<br>mm | Ch<br>mm |
|-------------------------------------------------------------------------------------|-----------|-------------|---------|---------|----------|
| 111401                                                                              | 252.90/N  | M5          | 7.0     | 4.0     | 8        |
| 111401 = discontinued product. No longer available. New product 137947 (MSN290SKM5) |           |             |         |         |          |
| 111402                                                                              | 252.95/N  | G 1/8       | 10.0    | 6.0     | 14       |
| 111402 = discontinued product. No longer available. New product 137948 (MSN290SK18) |           |             |         |         |          |
| 111403                                                                              | 252.96/N  | G 1/4       | 12.5    | 8.0     | 17       |
| 111403 = discontinued product. No longer available. New product 137949 (MSN290SK14) |           |             |         |         |          |
| 111404                                                                              | 252.97/N  | G 3/8       | 13.5    | 9.0     | 19       |
| 111404 = discontinued product. No longer available. New product 137950 (MSN290SK38) |           |             |         |         |          |
| 111405                                                                              | 252.98/N  | G 1/2       | 15.5    | 10.0    | 24       |
| 111405 = discontinued product. No longer available. New product 137951 (MSN290SK12) |           |             |         |         |          |
| 111406                                                                              | 252.99/N  | G 3/4       | 16.5    | 11.0    | 30       |
| 111406 = discontinued product. No longer available. New product 137952 (MSN290SK34) |           |             |         |         |          |
| 111407                                                                              | 252.100/N | G 1         | 19.0    | 13.0    | 38       |
| 111407 = discontinued product. No longer available. New product 137953 (MSN290SK1)  |           |             |         |         |          |



233.05-N

## Hexagon socket screw plug with NBR O-ring

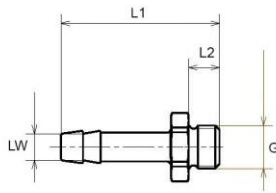
| Art. No. | Type No. | Thread<br>F | Hexagon<br>socket head<br>Ch<br>mm | P<br>mm | L<br>mm | E<br>mm | O-Ring<br>mm | Max.<br>locking<br>torque<br>Nm |
|----------|----------|-------------|------------------------------------|---------|---------|---------|--------------|---------------------------------|
| 111408   | 233.01-N | M5          | 2.5                                | 4.0     | 6.0     | 8.0     | 3.5x1.2      | 1.2                             |
| 111409   | 233.02-N | G 1/8       | 3                                  | 5.4     | 8.5     | 14.0    | 7.66x1.78    | 2.5                             |
| 111410   | 233.03-N | G 1/4       | 6                                  | 7.1     | 11.0    | 17.0    | 10.82x1.78   | 8                               |
| 111411   | 233.04-N | G 3/8       | 8                                  | 8.1     | 12.5    | 20.0    | 14.00x1.78   | 10                              |
| 111412   | 233.05-N | G 1/2       | 10                                 | 9.6     | 13.5    | 25.0    | 17.13x2.62   | 15                              |
| 111413   | 233.06-N | G 3/4       | 17                                 | 11.1    | 15.5    | 34.0    | -            | -                               |
| 111414   | 233.07-N | G 1         | 19                                 | 11.8    | 16.0    | 38.0    | -            | -                               |



252.23/N

## Socket with outer hex

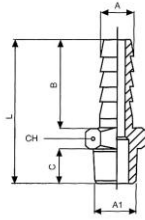
| Art. No.                                                                            | Type No.   | Thread<br>F | Ch<br>mm | L<br>mm |
|-------------------------------------------------------------------------------------|------------|-------------|----------|---------|
| 111415                                                                              | 252.20/N   | M5          | 8        | 11.0    |
| 111415 = discontinued product. No longer available. New product 138460 (MSN252MUM5) |            |             |          |         |
| 111416                                                                              | 252.21/N   | G 1/8       | 14       | 15.0    |
| 111416 = discontinued product. No longer available. New product 138461 (MSN252MU18) |            |             |          |         |
| 111417                                                                              | 252.22/N   | G 1/4       | 17       | 22.0    |
| 111417 = discontinued product. No longer available. New product 138462 (MSN252MU14) |            |             |          |         |
| 111418                                                                              | 252.23/N   | G 3/8       | 22       | 24.0    |
| 111418 = discontinued product. No longer available. New product 138463 (MSN252MU38) |            |             |          |         |
| 111419                                                                              | 252.24/N   | G 1/2       | 27       | 30.0    |
| 111419 = discontinued product. No longer available. New product 138464 (MSN252MU12) |            |             |          |         |
| 111420                                                                              | 252.24/1-N | G 3/4       | 32       | 32.0    |
| 111420 = discontinued product. No longer available. New product 138465 (MSN252MU34) |            |             |          |         |
| 111421                                                                              | 252.25/N   | G 1         | 38       | 35.0    |
| 111421 = discontinued product. No longer available. New product 138466 (MSN252MU1)  |            |             |          |         |



N239 E-N1

## Male hose fitting, parallel male thread

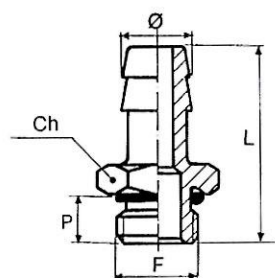
| Art. No.                                                                            | Type No.   | Thread<br>G | for hose<br>mm | L1<br>mm | L2<br>mm | a/f<br>mm |
|-------------------------------------------------------------------------------------|------------|-------------|----------------|----------|----------|-----------|
| 111422                                                                              | N239.02-N  | G 1/8       | I.D. 6         | 36.0     | 7.0      | 14        |
| 111422 = discontinued product. No longer available. New product 131040 (MSN2391806) |            |             |                |          |          |           |
| 111423                                                                              | N239.02-N1 | G 1/8       | I.D. 8         | 36.0     | 7.0      | 14        |
| 111424                                                                              | N239.03-N  | G 1/4       | I.D. 9         | 36.0     | 7.0      | 14        |
| 111425                                                                              | N239 A-N   | G 1/4       | I.D. 4         | 36.0     | 9.0      | 17        |
| 111426                                                                              | N239 B-N   | G 1/4       | I.D. 6         | 36.0     | 9.0      | 17        |
| 111427                                                                              | N239 B-N1  | G 1/4       | I.D. 8         | 39.0     | 9.0      | 17        |
| 111427 = discontinued product. No longer available. New product 131045 (MSN2391408) |            |             |                |          |          |           |
| 111428                                                                              | N239 C-N   | G 1/4       | I.D. 9         | 39.0     | 9.0      | 17        |
| 111428 = discontinued product. No longer available. New product 131046 (MSN2391409) |            |             |                |          |          |           |
| 111429                                                                              | N239 C-N1  | G 1/4       | I.D. 10        | 39.0     | 9.0      | 17        |
| 111429 = discontinued product. No longer available. New product 131047 (MSN2391410) |            |             |                |          |          |           |
| 111430                                                                              | N239 CS-N  | G 1/4       | I.D. 13        | 39.0     | 9.0      | 17        |
| 111431                                                                              | N239 E-N1  | G 3/8       | I.D. 8         | 42.0     | 9.0      | 17        |
| 111432                                                                              | N239 F-N   | G 3/8       | I.D. 9         | 39.0     | 9.0      | 19        |
| 111433                                                                              | N239 F-N1  | G 3/8       | I.D. 10        | 39.0     | 9.0      | 19        |
| 111434                                                                              | N239 FS-N  | G 3/8       | I.D. 13        | 42.0     | 9.0      | 19        |
| 111434 = discontinued product. No longer available. New product 131056 (MSN2393813) |            |             |                |          |          |           |
| 111435                                                                              | N239 G-N1  | G 1/2       | I.D. 8         | 42.0     | 9.0      | 19        |
| 111435 = discontinued product. No longer available. New product 131058 (MSN2391208) |            |             |                |          |          |           |
| 111436                                                                              | N239 H-N   | G 1/2       | I.D. 9         | 42.0     | 11.0     | 24        |
| 111436 = discontinued product. No longer available. New product 131059 (MSN2391209) |            |             |                |          |          |           |
| 111437                                                                              | N239 H-N1  | G 1/2       | I.D. 10        | 42.0     | 11.0     | 24        |
| 111437 = discontinued product. No longer available. New product 131060 (MSN2391210) |            |             |                |          |          |           |
| 111438                                                                              | N239 J-N   | G 1/2       | I.D. 13        | 45.0     | 11.0     | 24        |
| 111438 = discontinued product. No longer available. New product 131061 (MSN2391213) |            |             |                |          |          |           |
| 111439                                                                              | N239 J-N1  | G 1/2       | I.D. 16        | 53.0     | 11.0     | 24        |
| 111440                                                                              | N239 J-N2  | G 1/2       | I.D. 19        | 53.0     | 11.0     | 24        |
| 111440 = discontinued product. No longer available. New product 131063 (MSN2391219) |            |             |                |          |          |           |
| 111441                                                                              | N239 M-N   | G 3/4       | I.D. 13        | 51.0     | 12.0     | 24        |
| 111441 = discontinued product. No longer available. New product 131065 (MSN2393413) |            |             |                |          |          |           |
| 111442                                                                              | N239 N-N   | G 3/4       | I.D. 16        | 51.0     | 12.0     | 32        |
| 111442 = discontinued product. No longer available.                                 |            |             |                |          |          |           |
| 111443                                                                              | N239 P-N   | G 3/4       | I.D. 19        | 54.0     | 12.0     | 32        |
| 111443 = discontinued product. No longer available. New product 131067 (MSN2393419) |            |             |                |          |          |           |
| 111444                                                                              | N239 R-N   | G 3/4       | I.D. 25        | 54.0     | 12.0     | 32        |
| 111445                                                                              | N239 W-N   | G 1         | I.D. 25        | 55.0     | 13.0     | 38        |
| 111445 = discontinued product. No longer available. New product 131072 (MSN239125)  |            |             |                |          |          |           |
| 111446                                                                              | N239 Z-N   | G 1         | I.D. 32        | 55.0     | 13.0     | 38        |



239.107

**Male hose fitting**, conical male thread acc. to ISO 7-1

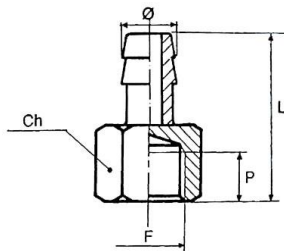
| Art. No.                                                                             | Type No.   | A<br>mm | Thread<br>A1 | B<br>mm | C<br>mm | L<br>mm | CH<br>mm |
|--------------------------------------------------------------------------------------|------------|---------|--------------|---------|---------|---------|----------|
| 111447                                                                               | 239.101    | I.D. 6  | R 1/8        | 19.0    | 8.0     | 31.5    | 12       |
| 111447 = discontinued product. No longer available. New product 134185 (MSN239R1806) |            |         |              |         |         |         |          |
| 111448                                                                               | 239.102    | I.D. 8  | R 1/8        | 19.0    | 8.0     | 31.5    | 12       |
| 111448 = discontinued product. No longer available. New product 134186 (MSN239R1808) |            |         |              |         |         |         |          |
| 111449                                                                               | 239.103    | I.D. 9  | R 1/8        | 19.0    | 8.0     | 31.5    | 12       |
| 111449 = discontinued product. No longer available. New product 134187 (MSN239R1809) |            |         |              |         |         |         |          |
| 111450                                                                               | 239.104    | I.D. 10 | R 1/8        | 20.0    | 8.0     | 32.5    | 12       |
| 111450 = discontinued product. No longer available. New product 134188 (MSN239R1810) |            |         |              |         |         |         |          |
| 111451                                                                               | 239.105    | I.D. 6  | R 1/4        | 19.0    | 11.0    | 35.0    | 14       |
| 111451 = discontinued product. No longer available. New product 134190 (MSN239R1406) |            |         |              |         |         |         |          |
| 111452                                                                               | 239.106    | I.D. 8  | R 1/4        | 19.0    | 11.0    | 35.0    | 14       |
| 111452 = discontinued product. No longer available. New product 134191 (MSN239R1408) |            |         |              |         |         |         |          |
| 111453                                                                               | 239.107    | I.D. 9  | R 1/4        | 19.0    | 11.0    | 35.0    | 14       |
| 111453 = discontinued product. No longer available. New product 134192 (MSN239R1409) |            |         |              |         |         |         |          |
| 111454                                                                               | 239.108    | I.D. 10 | R 1/4        | 20.0    | 11.0    | 36.0    | 14       |
| 111454 = discontinued product. No longer available. New product 134193 (MSN239R1410) |            |         |              |         |         |         |          |
| 111455                                                                               | 239.109    | I.D. 12 | R 1/4        | 20.0    | 11.0    | 36.0    | 14       |
| 111455 = discontinued product. No longer available. New product 134194 (MSN239R1412) |            |         |              |         |         |         |          |
| 111456                                                                               | N239.109-1 | I.D. 13 | R 1/4        | -       | 11.0    | 39.5    | 14       |
| 111457                                                                               | 239.110    | I.D. 9  | R 3/8        | 19.0    | 11.5    | 35.5    | 17       |
| 111457 = discontinued product. No longer available. New product 134199 (MSN252R3809) |            |         |              |         |         |         |          |
| 111458                                                                               | 239.111    | I.D. 10 | R 3/8        | 20.0    | 11.5    | 36.5    | 17       |
| 111458 = discontinued product. No longer available. New product 134200 (MSN252R3810) |            |         |              |         |         |         |          |
| 111459                                                                               | 239.112    | I.D. 12 | R 3/8        | 20.0    | 11.5    | 36.5    | 17       |
| 111459 = discontinued product. No longer available. New product 134201 (MSN239R3812) |            |         |              |         |         |         |          |
| 111460                                                                               | N239.112-1 | I.D. 13 | R 3/8        | -       | 11.5    | 41.0    | 17       |
| 111461                                                                               | 239.113    | I.D. 9  | R 1/2        | 19.0    | 14.0    | 38.5    | 22       |
| 111461 = discontinued product. No longer available. New product 134205 (MSN239R1209) |            |         |              |         |         |         |          |
| 111462                                                                               | 239.114    | I.D. 10 | R 1/2        | 20.0    | 14.0    | 39.5    | 22       |
| 111462 = discontinued product. No longer available. New product 134206 (MSN239R1210) |            |         |              |         |         |         |          |
| 111463                                                                               | 239.115    | I.D. 12 | R 1/2        | 20.0    | 14.0    | 39.5    | 22       |
| 111463 = discontinued product. No longer available. New product 134207 (MSN239R1212) |            |         |              |         |         |         |          |
| 111464                                                                               | N239.116   | I.D. 13 | R 1/2        | -       | 15.0    | 44.5    | 22       |
| 111464 = discontinued product. No longer available. New product 134208 (MSN239R1213) |            |         |              |         |         |         |          |
| 111465                                                                               | N239.117   | I.D. 16 | R 1/2        | -       | 15.0    | 44.5    | 22       |
| 111465 = discontinued product. No longer available. New product 134209 (MSN239R1216) |            |         |              |         |         |         |          |
| 111466                                                                               | N139.118   | I.D. 19 | R 1/2        | -       | 15.0    | 44.5    | 22       |
| 111466 = discontinued product. No longer available. New product 134210 (MSN239R1219) |            |         |              |         |         |         |          |



239.515

**Male hose fitting, parallel, with O-ring**

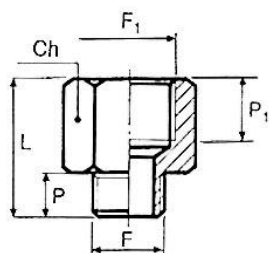
| Art. No.                                                                             | Type No.        | For hose<br>Ø mm | Thread<br>F | Ch<br>mm | P<br>mm | L<br>mm | O-ring<br>mm |
|--------------------------------------------------------------------------------------|-----------------|------------------|-------------|----------|---------|---------|--------------|
| 111467                                                                               | 239.501         | I.D. 5           | G 1/8       | 14       | 6,5     | 30,0    | 7,66x1,78    |
| 111468                                                                               | 239.502         | I.D. 7           | G 1/8       | 15       | 6,0     | 31,0    | 7,66x1,78    |
| 111469                                                                               | 239.503         | I.D. 8           | G 1/8       | 15       | 6,0     | 31,0    | 7,66x1,78    |
| 111470                                                                               | 239.505         | I.D. 5           | G 1/4       | 17       | 8,0     | 32,0    | 10,82x1,78   |
| 111471                                                                               | N239.506-N      | I.D. 7           | G 1/4       | 17       | 8,0     | 32,0    | 10,82x1,78   |
| 111472                                                                               | 239.507         | I.D. 8           | G 1/4       | 18       | 8,0     | 33,0    | 10,82x1,78   |
| 111473                                                                               | N239.508-N      | I.D. 9           | G 1/4       | 17       | 8,0     | 33,0    | 10,82x1,78   |
| 111474                                                                               | 239.509         | I.D. 11          | G 1/4       | 18       | 8,0     | 33,0    | 10,82x1,78   |
| 111475                                                                               | N239.520-N      | I.D. 12          | G 1/4       | 18       | 8,0     | 33,0    | 10,82x1,78   |
| 111475 = discontinued product. No longer available. New product 163346 (N239.520-N*) |                 |                  |             |          |         |         |              |
| 111476                                                                               | N239.521-N      | I.D. 5           | G 3/8       | 20       | 9,0     | 33,0    | 14,00x1,78   |
| 111477                                                                               | N239.522-N      | I.D. 7           | G 3/8       | 20       | 9,0     | 33,0    | 14,00x1,78   |
| 111478                                                                               | 239.510         | I.D. 8           | G 3/8       | 21       | 9,0     | 34,0    | 14,00x1,78   |
| 111479                                                                               | N239.511-N      | I.D. 9           | G 3/8       | 20       | 9,0     | 34,0    | 14,00x1,78   |
| 111480                                                                               | 239.512         | I.D. 11          | G 3/8       | 21       | 9,0     | 34,0    | 14,00x1,78   |
| 111481                                                                               | N239.513-N      | I.D. 12          | G 3/8       | 20       | 9,0     | 34,0    | 14,00x1,78   |
| 111482                                                                               | 239.515         | I.D. 11          | G 1/2       | 26       | 11,0    | 36,0    | 17,13x2,62   |
| 111483                                                                               | N239.516-N      | I.D. 12          | G 1/2       | 24       | 10,0    | 36,0    | 17,13x2,62   |
| 111484                                                                               | N239.517-N      | I.D. 15          | G 1/2       | 25       | 10,0    | 40,0    | 17,13x2,62   |
| 111485                                                                               | N239.518-N      | I.D. 18          | G 1/2       | 24       | 10,0    | 40,0    | 17,13x2,62   |
| 117810                                                                               | 239.1213.MSN.OR | I.D. 13          | G 1/2       | 25       | 10,0    | 40,0    | 17,13x2,62   |
| 117830                                                                               | 239.3813.MSN.OR | I.D. 13          | G 3/8       | 20       | 9,0     | 38,0    | 14,00x1,78   |
| 117849                                                                               | 239.3815.MSN.OR | I.D. 15          | G 3/8       | 20       | 9,0     | 38,0    | 14,00x1,78   |
| 117859                                                                               | 239.1216.MSN.OR | I.D. 16          | G 1/2       | 26       | 11,0    | 36,0    | 17,13x2,62   |
| 117870                                                                               | 239.3816.MSN.OR | I.D. 16          | G 3/8       | 21       | 9,0     | 34,0    | 14,00x1,78   |
| 117877                                                                               | 239.1219.MSN.OR | I.D. 19          | G 1/2       | 25       | 10,0    | 40,0    | 17,13x2,62   |



237.09-N

## Female stem with parallel female thread

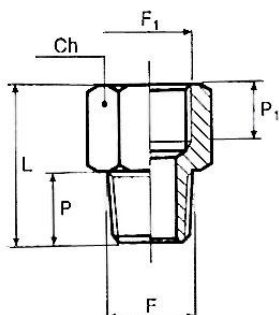
| Art. No.                                                                             | Type No. | For hose<br>Ø mm | Thread<br>F | Ch<br>mm | P<br>mm | L<br>mm |
|--------------------------------------------------------------------------------------|----------|------------------|-------------|----------|---------|---------|
| 111486                                                                               | 237.01-N | I.D. 6           | G 1/8       | 12       | 8.5     | 28.0    |
| 111486 = discontinued product. No longer available. New product 134877 (MSN239A1806) |          |                  |             |          |         |         |
| 111487                                                                               | 237.02-N | I.D. 8           | G 1/8       | 12       | 8.5     | 28.0    |
| 111487 = discontinued product. No longer available. New product 134878 (MSN239A1808) |          |                  |             |          |         |         |
| 111488                                                                               | 237.03-N | I.D. 9           | G 1/8       | 12       | 8.5     | 28.0    |
| 111488 = discontinued product. No longer available. New product 134879 (MSN239A1809) |          |                  |             |          |         |         |
| 111489                                                                               | 237.04-N | I.D. 10          | G 1/8       | 12       | 8.5     | 28.0    |
| 111490                                                                               | 237.05-N | I.D. 6           | G 1/4       | 15       | 10.0    | 33.0    |
| 111490 = discontinued product. No longer available. New product 134882 (MSN239A1406) |          |                  |             |          |         |         |
| 111491                                                                               | 237.06-N | I.D. 8           | G 1/4       | 15       | 10.0    | 33.0    |
| 111491 = discontinued product. No longer available. New product 134883 (MSN239A1408) |          |                  |             |          |         |         |
| 111492                                                                               | 237.07-N | I.D. 9           | G 1/4       | 15       | 10.0    | 33.0    |
| 111492 = discontinued product. No longer available. New product 134884 (MSN239A1409) |          |                  |             |          |         |         |
| 111493                                                                               | 237.08-N | I.D. 10          | G 1/4       | 15       | 10.0    | 33.0    |
| 111493 = discontinued product. No longer available. New product 134885 (MSN239A1410) |          |                  |             |          |         |         |
| 111494                                                                               | 237.09-N | I.D. 12          | G 1/4       | 15       | 10.0    | 33.0    |
| 111495                                                                               | 237.10-N | I.D. 8           | G 3/8       | 19       | 12.0    | 35.0    |
| 111495 = discontinued product. No longer available. New product 134890 (MSN239A3808) |          |                  |             |          |         |         |
| 111496                                                                               | 237.11-N | I.D. 10          | G 3/8       | 19       | 12.0    | 35.0    |
| 111496 = discontinued product. No longer available. New product 134892 (MSN239A3810) |          |                  |             |          |         |         |
| 111497                                                                               | 237.12-N | I.D. 12          | G 3/8       | 19       | 12.0    | 35.0    |
| 111498                                                                               | 237.13-N | I.D. 14          | G 3/8       | 19       | 12.0    | 35.0    |
| 111499                                                                               | 237.14-N | I.D. 10          | G 1/2       | 25       | 14.0    | 38.0    |
| 111499 = discontinued product. No longer available. New product 134899 (MSN239A1210) |          |                  |             |          |         |         |
| 111500                                                                               | 237.15-N | I.D. 12          | G 1/2       | 25       | 14.0    | 41.0    |
| 111500 = discontinued product. No longer available. New product 134900 (MSN239A1212) |          |                  |             |          |         |         |
| 111501                                                                               | 237.16-N | I.D. 14          | G 1/2       | 25       | 14.0    | 41.0    |



230.08-N

## Extension, short, parallel

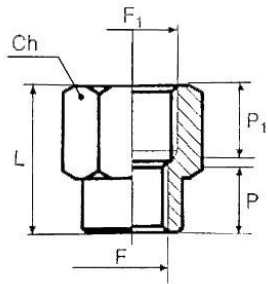
| Art. No. | Type No. | Male thread F | Female thread F1 | Ch mm | P mm | P1 mm | L mm |
|----------|----------|---------------|------------------|-------|------|-------|------|
| 111502   | 230.01-N | M5            | G 1/8            | 12    | 4.0  | 7.0   | 17.0 |
| 111503   | 230.02-N | G 1/8         | G 1/8            | 14    | 6.0  | 7.0   | 18.5 |
| 111504   | 230.03-N | G 1/8         | G 1/4            | 17    | 6.0  | 8.0   | 21.5 |
| 111505   | 230.04-N | G 1/4         | G 1/4            | 17    | 8.0  | 8.0   | 22.5 |
| 111506   | 230.05-N | G 1/4         | G 3/8            | 22    | 8.0  | 10.0  | 26.0 |
| 111507   | 230.06-N | G 3/8         | G 3/8            | 22    | 9.0  | 10.0  | 26.5 |
| 111508   | 230.07-N | G 3/8         | G 1/2            | 24    | 9.0  | 11.0  | 29.5 |
| 111509   | 230.08-N | G 1/2         | G 1/2            | 25    | 10.0 | 11.0  | 29.5 |



1230.10-N

## Extension, short, conical male thread, parallel female thread

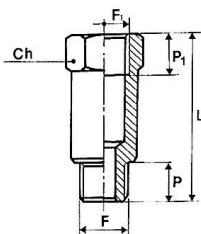
| Art. No. | Type No.  | Male thread F | Female thread F1 | Ch mm | P mm | P1 mm | L mm |
|----------|-----------|---------------|------------------|-------|------|-------|------|
| 111510   | 1230.02-N | R 1/8         | G 1/8            | 14    | 8.0  | 7.0   | 20.0 |
| 111511   | 1230.03-N | R 1/8         | G 1/4            | 17    | 8.0  | 8.0   | 22.5 |
| 111512   | 1230.09-N | R 1/8         | G 3/8            | 22    | 8.0  | 11.5  | 21.5 |
| 111513   | 1230.04-N | R 1/4         | G 1/4            | 17    | 11.0 | 8.0   | 25.0 |
| 111514   | 1230.05-N | R 1/4         | G 3/8            | 22    | 11.0 | 10.0  | 28.5 |
| 111515   | 1230.06-N | R 1/4         | G 1/2            | 24    | 11.0 | 14.0  | 29.0 |
| 111516   | 1230.07-N | R 3/8         | G 3/8            | 22    | 11.5 | 10.0  | 28.5 |
| 111517   | 1230.08-N | R 3/8         | G 1/2            | 24    | 11.5 | 11.0  | 32.0 |
| 111518   | 1230.10-N | R 1/2         | G 1/2            | 24    | 14.0 | 11.0  | 34.0 |
| 111519   | 1230.11-N | R 1/2         | G 3/4            | 32    | 14.0 | 16.5  | 35.0 |



231.07-N

## Extensions, 2 x female thread, parallel

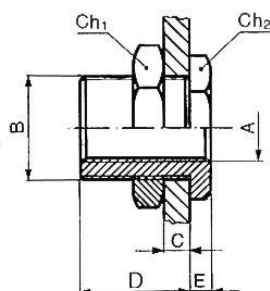
| Art. No. | Type No. | Thread 1<br>F | Thread 2<br>F1 | Ch<br>mm | P<br>mm | P1<br>mm | L<br>mm |
|----------|----------|---------------|----------------|----------|---------|----------|---------|
| 111520   | 231.01-N | M5            | G 1/8          | 14       | 5.0     | 8.0      | 13.5    |
| 111521   | 231.02-N | G 1/8         | G 1/4          | 17       | 8.0     | 8.0      | 21.5    |
| 111522   | 231.03-N | G 1/8         | G 3/8          | 22       | 7.0     | 10.0     | 23.5    |
| 111523   | 231.04-N | G 1/4         | G 3/8          | 22       | 9.0     | 10.0     | 25.5    |
| 111524   | 231.05-N | G 1/4         | G 1/2          | 24       | 9.0     | 11.0     | 28.5    |
| 111525   | 231.06-N | G 3/8         | G 1/2          | 24       | 11.0    | 11.0     | 29.5    |
| 111526   | 231.07-N | G 1/2         | G 3/4          | 32       | 11.5    | 16.5     | 30.0    |
| 111527   | 231.08-N | G 1/2         | G 1/8          | 24       | -       | -        | 24,0    |
| 111528   | 231.09-N | G 1           | G 3/4          | 38       | -       | -        | 25,0    |



234.07-N

## Extension, long, parallel

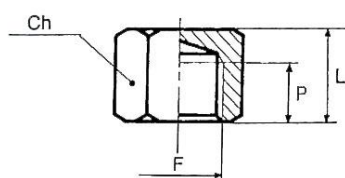
| Art. No. | Type No. | Male<br>thread<br>F | Female<br>thread<br>F1 | Ch<br>mm | P<br>mm | L<br>mm | P1<br>mm |
|----------|----------|---------------------|------------------------|----------|---------|---------|----------|
| 111529   | 234.01-N | G 1/8               | G 1/8                  | 14       | 6.0     | 22.0    | 8.0      |
| 111530   | 234.02-N | G 1/8               | G 1/8                  | 14       | 6.0     | 42.0    | 8.0      |
| 111531   | 234.03-N | G 1/8               | G 1/8                  | 14       | 6.0     | 51.0    | 6.0      |
| 111532   | 234.04-N | G 1/8               | G 1/8                  | 14       | 6.0     | 100.0   | 8.0      |
| 111533   | 234.05-N | G 1/4               | G 1/4                  | 17       | 8.0     | 35.0    | 11.0     |
| 111534   | 234.06-N | G 1/4               | G 1/4                  | 17       | 8.0     | 51.0    | 11.0     |
| 111535   | 234.07-N | G 1/4               | G 1/4                  | 17       | 8.0     | 100.0   | 11.0     |



232.04-N

**Bulkhead connector**

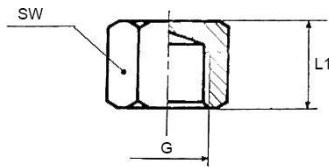
| Art. No.                                                                             | Type No. | Female thread A | Male thread B | Max. operating temperature °C | C <sub>max</sub> | D mm | E mm | Ch1 mm | Ch2 mm |
|--------------------------------------------------------------------------------------|----------|-----------------|---------------|-------------------------------|------------------|------|------|--------|--------|
| 111536                                                                               | 232.01-N | G 1/8           | M16x1.5       | 150                           | 0                | 14.0 | 4.0  | 19     | 22     |
| 111536 = discontinued product. No longer available. New product 138492 (MSN232M1618) |          |                 |               |                               |                  |      |      |        |        |
| 111537                                                                               | 232.02-N | G 1/4           | M20x1.5       | 150                           | 0                | 21.0 | 5.0  | 27     | 24     |
| 111537 = discontinued product. No longer available. New product 138493 (MSN232M2014) |          |                 |               |                               |                  |      |      |        |        |
| 111538                                                                               | 232.03-N | G 3/8           | M26x1.5       | 150                           | 0                | 21.0 | 5.0  | 30     | 32     |
| 111538 = discontinued product. No longer available. New product 138494 (MSN232M2638) |          |                 |               |                               |                  |      |      |        |        |
| 111539                                                                               | 232.04-N | G 1/2           | M28x1.5       | 150                           | 0                | 27.0 | 6.5  | 36     | 32     |
| 111539 = discontinued product. No longer available. New product 138495 (MSN232M2812) |          |                 |               |                               |                  |      |      |        |        |



236.04-N

**Cap**

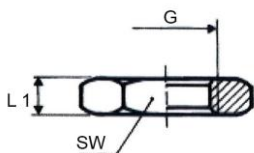
| Art. No.                                                                         | Type No. | Thread F | Ch mm | P mm | L mm |
|----------------------------------------------------------------------------------|----------|----------|-------|------|------|
| 111540                                                                           | 236.01-N | G 1/8    | 14    | 7.0  | 13.0 |
| 111541                                                                           | 236.02-N | G 1/4    | 17    | 8.0  | 15.0 |
| 111541 = discontinued product. No longer available. New product 138497 (MSNVK14) |          |          |       |      |      |
| 111542                                                                           | 236.03-N | G 3/8    | 20    | 10.0 | 17.5 |
| 111543                                                                           | 236.04-N | G 1/2    | 24    | 11.0 | 20.0 |
| 111543 = discontinued product. No longer available. New product 138499 (MSNVK12) |          |          |       |      |      |
| 111544                                                                           | 236.05-N | G 3/4    | 30    | -    | 14.0 |
| 111545                                                                           | 236.06-N | G 1      | 37    | -    | 15.0 |
| 111545 = discontinued product. No longer available.                              |          |          |       |      |      |



239.03-N

## Hexagonal swivel nut

| Art. No.                                            | Type No. | Thread<br>G | for fitting size | L1<br>mm | a/f<br>mm |
|-----------------------------------------------------|----------|-------------|------------------|----------|-----------|
| 111546                                              | 239.01-N | G 1/8       | LW 4, LW 6       | 13.0     | 14        |
| 111547                                              | 239.02-N | G 1/4       | LW 4, LW 6       | 15.0     | 17        |
| 111547 = discontinued product. No longer available. |          |             |                  |          |           |
| 111548                                              | 239.03-N | G 3/8       | LW 4             | 15.0     | 19        |
| 111549                                              | 239.04-N | G 1/2       | LW 4, LW 6, LW 9 | 16.0     | 24        |



238.03

## Lock nuts

| Art. No.                                                                          | Type No. | Thread<br>G | L1<br>mm | SW<br>mm |
|-----------------------------------------------------------------------------------|----------|-------------|----------|----------|
| 111550                                                                            | 238.01-N | G 1/8       | 4.5      | 14       |
| 111550 = discontinued product. No longer available. New product 138502 (MSN23818) |          |             |          |          |
| 111551                                                                            | 238.02-N | G 1/4       | 5.0      | 17       |
| 111551 = discontinued product. No longer available. New product 138503 (MSN23814) |          |             |          |          |
| 111552                                                                            | 238.03-N | G 3/8       | 5.5      | 19       |
| 111552 = discontinued product. No longer available. New product 138504 (MSN23838) |          |             |          |          |
| 111553                                                                            | 238.04-N | G 1/2       | 6.0      | 24       |
| 111554                                                                            | 238.05-N | G 3/4       | 6.0      | 30       |
| 111554 = discontinued product. No longer available. New product 138506 (MSN23834) |          |             |          |          |
| 111555                                                                            | 238.06-N | G 1         | 8.0      | 38       |