



INTERNATIONAL

Nominal Diameter

6/9/13

RECTUS Series

86/87/88

**Technical Description**

The 86, 87 and 88 Rectus Moldtite coupling series were especially developed for connecting coolant lines and injection molds. Countersunk plugs can easily be connected and disconnected because of the extended sleeve. The angular connections prevent kinks from forming in the hose.

**Advantages**

Available in single shut-off, double shut-off, straight-through and SAFE-LOCK™ versions. The shut-off couplings (with valve) are equipped with nickel plated sleeves for quick and accurate visual differentiation.

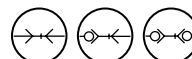
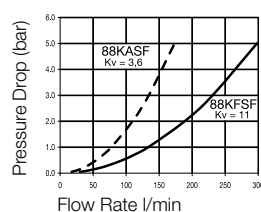
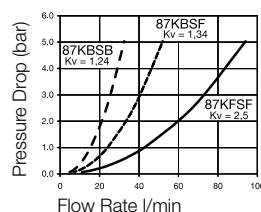
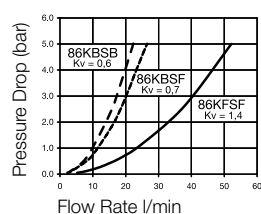
**Working Pressure:**

PB = 15 bar, maximum static working pressure with safety factor of 4 to 1.

**Working Temperature\***

-15°C up to +200°C (FKM) depending on the medium.

\*At a temperature below -15°C and above +200°C special seals are available on request.

**Available Valves****Chart****Material****Coupling**

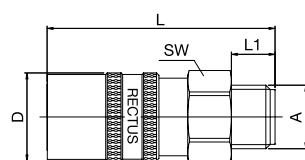
Back Body  
Valve Body  
Sleeve  
Sleeve  
Valve  
Locking Balls  
Spring  
Seal

Brass  
Brass  
Brass (without Valve)  
Brass, Nickel Plated (with Valve)  
Brass  
AISI 420  
AISI 301  
FKM

**Plug**

Plug Profile  
Back Body  
Valve  
Spring  
Seal

Brass  
Brass  
Brass  
AISI 301  
FKM

**Couplings****RECTUS Series 86/87/88**

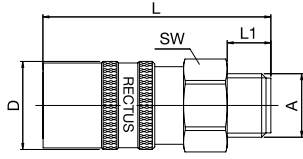
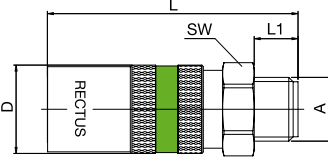
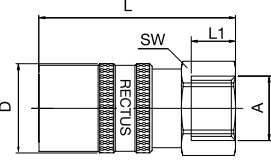
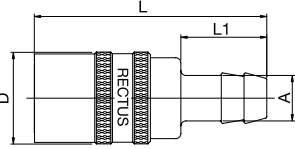
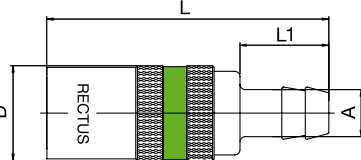
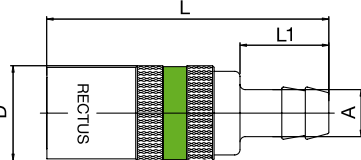
Male Thread

| DN | Series | Connec-<br>tion A | Hex<br>SW | L<br>mm | D<br>mm | L1<br>mm | L2<br>mm | D1<br>mm | D2<br>mm | Valve   | Part Number   | PU | DS |
|----|--------|-------------------|-----------|---------|---------|----------|----------|----------|----------|---------|---------------|----|----|
| 6  | 86     | G 1/4             | 17        | 47      | 18      | 9        |          |          |          | with    | 86KB AW13 MVX | 10 | ■  |
|    |        |                   |           |         |         |          |          |          |          | without | 86KF AW13 MVX | 10 | ■  |
|    |        | G 3/8             | 19        | 47      | 18      | 9        |          |          |          | with    | 86KB AW17 MVX | 10 | ■  |
|    |        |                   |           |         |         |          |          |          |          | without | 86KF AW17 MVX | 10 | ■  |
| 9  | 87     | G 1/4             | 22        | 56,5    | 24      | 9        |          |          |          | with    | 87KB AW13 MVX | 10 | ■  |
|    |        |                   |           |         |         |          |          |          |          | without | 87KF AW13 MVX | 10 | ■  |
|    |        | G 3/8             | 22        | 56,5    | 24      | 9        |          |          |          | with    | 87KB AW17 MVX | 10 | ■  |
|    |        |                   |           |         |         |          |          |          |          | without | 87KF AW17 MVX | 10 | ■  |

DS = Delivery Status: ■ in stock

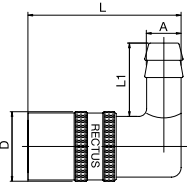
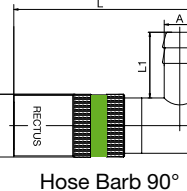
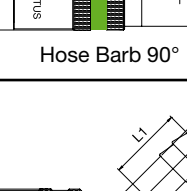
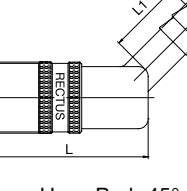
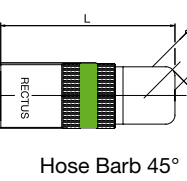
■ on short call

■ medium term delivery

|   | DN | Series | Connec-<br>tion A | Hex<br>SW | L<br>mm | D<br>mm | L1<br>mm | L2<br>mm | D1<br>mm | D2<br>mm | Valve   | Part Number     | PU | DS |
|---|----|--------|-------------------|-----------|---------|---------|----------|----------|----------|----------|---------|-----------------|----|----|
|  <p>Male Thread</p>    | 9  | 87     | G 1/2             | 22        | 59,5    | 24      | 12       |          |          |          | with    | 87KB AW21 MVX   | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 87KF AW21 MVX   | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          |         |                 |    |    |
|   |    |        |                   |           |         |         |          |          |          |          |         |                 |    |    |
|  <p>Male Thread</p>    | 6  | 86     | G 1/4             | 17        | 51,5    | 18      | 9        |          |          |          | with    | 86KB AW13 MVXSL | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 86KF AW13 MVXSL | 10 |    |
|   |    |        | G 3/8             | 19        | 51,5    | 18      | 9        |          |          |          | with    | 86KB AW17 MVXSL | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 86KF AW17 MVXSL | 10 |    |
|   | 9  | 87     | G 1/4             | 22        | 67      | 24      | 9        |          |          |          | with    | 87KB AW13 MVXSL | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 87KF AW13 MVXSL | 10 |    |
|   |    |        | G 3/8             | 22        | 67      | 24      | 9        |          |          |          | with    | 87KB AW17 MVXSL | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 87KF AW17 MVXSL | 10 |    |
|  <p>Female Thread</p> |    |        | G 1/2             | 22        | 70      | 24      | 12       |          |          |          | with    | 87KB AW21 MVXSL | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 87KF AW21 MVXSL | 10 |    |
|   | 6  | 86     | G 1/8             | 17        | 40      | 18      | 9        |          |          |          | with    | 86KB IW10 MVX   | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 86KF IW10 MVX   | 10 |    |
|   |    |        | G 1/4             | 17        | 40      | 18      | 9        |          |          |          | with    | 86KB IW13 MVX   | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 86KF IW13 MVX   | 10 |    |
|   | 9  | 87     | G 1/4             | 21        | 51,5    | 24      | 9        |          |          |          | with    | 87KB IW13 MVX   | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 87KF IW13 MVX   | 10 |    |
|  <p>Hose Barb</p>    |    |        | G 3/8             | 21        | 51,5    | 24      | 9        |          |          |          | with    | 87KB IW17 MVX   | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 87KF IW17 MVX   | 10 |    |
|   | 6  | 86     | 6 mm              |           | 46      | 18      | 17       |          |          |          | with    | 86KB TF06 MVX   | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 86KF TF06 MVX   | 10 |    |
|   |    |        | 9 mm              |           | 51      | 18      | 22       |          |          |          | with    | 86KB TF09 MVX   | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 86KF TF09 MVX   | 10 |    |
|   | 9  | 87     | 9 mm              |           | 64      | 24      | 22       |          |          |          | with    | 87KB TF09 MVX   | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 87KF TF09 MVX   | 10 |    |
|  <p>Hose Barb</p>    |    |        | 13 mm             |           | 66,5    | 24      | 25       |          |          |          | with    | 87KB TF13 MVX   | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 87KF TF13 MVX   | 10 |    |
|   | 13 | 88     | 19 mm             |           | 89      | 32      | 32       |          |          |          | with    | 88KA TF19 MVX   | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 88KF TF19 MVX   | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          |         |                 |    |    |
|   |    |        |                   |           |         |         |          |          |          |          |         |                 |    |    |
|   | 6  | 86     | 6 mm              |           | 54      | 18      | 17       |          |          |          | with    | 86KB TF06 MVXSL | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 86KF TF06 MVXSL | 10 |    |
|  <p>Hose Barb</p>    |    |        | 9 mm              |           | 59      | 18      | 22       |          |          |          | with    | 86KB TF09 MVXSL | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 86KF TF09 MVXSL | 10 |    |
|   | 9  | 87     | 9 mm              |           | 73      | 24      | 22       |          |          |          | with    | 87KB TF09 MVXSL | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 87KF TF09 MVXSL | 10 |    |
|   |    |        | 13 mm             |           | 76      | 24      | 25       |          |          |          | with    | 87KB TF13 MVXSL | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          | without | 87KF TF13 MVXSL | 10 |    |
|   |    |        |                   |           |         |         |          |          |          |          |         |                 |    |    |
|   |    |        |                   |           |         |         |          |          |          |          |         |                 |    |    |

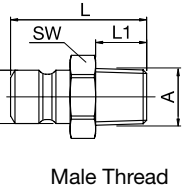
# Couplings

# RECTUS Series 86/87/88

|  | DN | Series | Conne-<br>ction A | Hex<br>SW | L<br>mm | D<br>mm | L1<br>mm | L2<br>mm | D1<br>mm | D2<br>mm | Valve   | Part Number     | PU | DS |
|--|----|--------|-------------------|-----------|---------|---------|----------|----------|----------|----------|---------|-----------------|----|----|
|  <p>Hose Barb 90°</p>   | 6  | 86     | 6 mm              |           | 40      | 18      | 17       |          |          |          | with    | 86KB TR06 MVX   | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 86KF TR06 MVX   | 10 | ■  |
|  |    |        | 9 mm              |           | 40      | 18      | 22       |          |          |          | with    | 86KB TR09 MVX   | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 86KF TR09 MVX   | 10 | ■  |
|  | 9  | 87     | 9 mm              |           | 56      | 24      | 22       |          |          |          | with    | 87KB TR09 MVX   | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 87KF TR09 MVX   | 10 | ■  |
|  <p>Hose Barb 90°</p>   |    |        | 13 mm             |           | 56      | 24      | 28,5     |          |          |          | with    | 87KB TR13 MVX   | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 87KF TR13 MVX   | 10 | ■  |
|  | 13 | 88     | 19 mm             |           | 77      | 32      | 32       |          |          |          | with    | 88KA TR19 MVX   | 5  | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 88KF TR19 MVX   | 5  | ■  |
|  | 6  | 86     | 9 mm              |           | 52,5    | 18      | 22       |          |          |          | with    | 86KB TR09 MVXSL | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 86KF TR09 MVXSL | 10 | ■  |
|  <p>Hose Barb 90°</p>   | 9  | 87     | 9 mm              |           | 68,5    | 24      | 22       |          |          |          | with    | 87KB TR09 MVXSL | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 87KF TR09 MVXSL | 10 | ■  |
|  |    |        | 13 mm             |           | 68,5    | 24      | 28,5     |          |          |          | with    | 87KB TR13 MVXSL | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 87KF TR13 MVXSL | 10 | ■  |
|  | 6  | 86     | 6 mm              |           | 40      | 18      | 17       |          |          |          | with    | 86KB TH06 MVX   | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 86KF TH06 MVX   | 10 | ■  |
|  <p>Hose Barb 45°</p>  |    |        | 9 mm              |           | 40      | 18      | 22       |          |          |          | with    | 86KB TH09 MVX   | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 86KF TH09 MVX   | 10 | ■  |
|  | 9  | 87     | 9 mm              |           | 56      | 24      | 22       |          |          |          | with    | 87KB TH09 MVX   | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 87KF TH09 MVX   | 10 | ■  |
|  |    |        | 13 mm             |           | 56      | 24      | 25       |          |          |          | with    | 87KB TH13 MVX   | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 87KF TH13 MVX   | 10 | ■  |
|  <p>Hose Barb 45°</p> | 6  | 86     | 9 mm              |           | 51,5    | 18      | 22       |          |          |          | with    | 86KB TH09 MVXSL | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 86KF TH09 MVXSL | 10 | ■  |
|  | 9  | 87     | 9 mm              |           | 65,5    | 24      | 22       |          |          |          | with    | 87KB TH09 MVXSL | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 87KF TH09 MVXSL | 10 | ■  |
|  |    |        | 13 mm             |           | 65,5    | 24      | 25       |          |          |          | with    | 87KB TH13 MVXSL | 10 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          | without | 87KF TH13 MVXSL | 10 | ■  |

# Plugs

# RECTUS Series 86/87/88

|  | DN  | Series | Conne-<br>ction A | Hex<br>SW | L<br>mm | D<br>mm | L1<br>mm | L2<br>mm | D1<br>mm | D2<br>mm | Valve   | Part Number   | PU | DS |
|--|-----|--------|-------------------|-----------|---------|---------|----------|----------|----------|----------|---------|---------------|----|----|
|  <p>Male Thread</p> | 6   | 86     | M 10 x 1          | 13        | 23      | 9,5     | 8        |          |          |          | without | 86SF AM10 MXX | 25 | ■  |
|  |     |        | R 1/8             | 13        | 24      | 9,5     | 9        |          |          |          | without | 86SF AK10 MXX | 25 | ■  |
|  |     |        | R 1/4             | 16        | 29      | 9,5     | 14       |          |          |          | with    | 86SB AK13 MVX | 25 | ■  |
|  |     |        | R 1/4             | 16        | 29      | 9,5     | 12       |          |          |          | without | 86SF AK13 MXX | 25 | ■  |
|  |     |        | R 3/8             | 19        | 30      | 9,5     | 12       |          |          |          | without | 86SF AK17 MXX | 25 | ■  |
|  | 6/9 | 87     | R 1/4             | 16        | 34      | 13,5    | 12       |          |          |          | with    | 87SB AK13 MVX | 25 | ■  |
|  |     |        | R 1/4             | 16        | 34      | 13,5    | 12       |          |          |          | without | 87SF AK13 MXX | 25 | ■  |
|  | 9   |        | R 3/8             | 19        | 34      | 13,5    | 12       |          |          |          | with    | 87SB AK17 MVX | 25 | ■  |
|  |     |        | R 3/8             | 19        | 34      | 13,5    | 12       |          |          |          | without | 87SF AK17 MXX | 25 | ■  |
|  |     |        | R 1/2             | 24        | 39      | 13,5    | 17       |          |          |          | without | 87SF AK21 MXX | 25 | ■  |
|  | 13  | 88     | R 1/2             | 22        | 44      | 20      | 17       |          |          |          | without | 88SF AK21 MXX | 10 | ■  |
|  |     |        | R 3/4             | 29        | 45      | 20      | 19       |          |          |          | without | 88SF AK26 MXX | 10 | ■  |

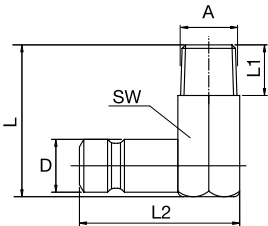
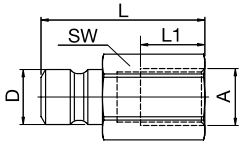
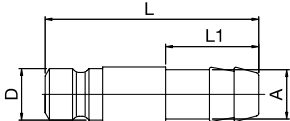
DS = Delivery Status: ■ in stock

■ on short call

■ medium term delivery

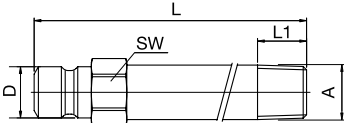
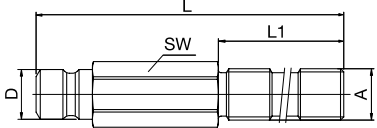
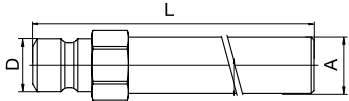
# Plugs

# RECTUS Series 86/87/88

|  | DN | Series | Connec-<br>tion A | Hex<br>SW | L<br>mm | D<br>mm | L1<br>mm | L2<br>mm | D1<br>mm | D2<br>mm | Valve   | Part Number      | PU | DS |
|--|----|--------|-------------------|-----------|---------|---------|----------|----------|----------|----------|---------|------------------|----|----|
|  <p>Male Thread 90°</p> | 6  | 86     | M 10 x 1          | 11        | 27      | 9,5     | 9        | 28,5     |          |          | without | 86SF AR10 MXX_03 | 25 | ■  |
|  |    |        | R 1/8             | 11        | 27      | 9,5     | 9        | 28,5     |          |          | without | 86SF AR10 MXX    | 25 | ■  |
|  |    |        | R 1/4             | 14        | 27      | 9,5     | 9        | 32       |          |          | without | 86SF AR13 MXX    | 25 | ■  |
|  | 9  | 87     | R 1/4             | 15        | 34      | 13,5    | 9        | 32       |          |          | without | 87SF AR13 MXX    | 25 | ■  |
|  |    |        | R 3/8             | 19        | 37      | 13,5    | 12       | 36       |          |          | without | 87SF AR17 MXX    | 25 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          |         |                  |    |    |
|  <p>Female Thread</p>   | 6  | 86     | G 1/8             | 13        | 28      | 9,5     | 11       |          |          |          | without | 86SF IW10 MXX    | 25 | ■  |
|  |    |        | G 1/4             | 16        | 32      | 9,5     | 13       |          |          |          | without | 86SF IW13 MXX    | 25 | ■  |
|  |    |        | G 3/8             | 19        | 34      | 9,5     | 13       |          |          |          | without | 86SF IW17 MXX    | 25 | ■  |
|  | 9  | 87     | G 1/4             | 16        | 37      | 13,5    | 13       |          |          |          | without | 87SF IW13 MXX    | 25 | ■  |
|  |    |        | G 3/8             | 19        | 39      | 13,5    | 13       |          |          |          | without | 87SF IW17 MXX    | 25 | ■  |
|  |    |        |                   |           |         |         |          |          |          |          |         |                  |    |    |
|  <p>Hose Barb</p>       | 6  | 86     | 9 mm              |           | 39      | 9,5     | 22       |          |          |          | without | 86SF TF09 MXX    | 25 | ■  |
|  | 9  | 87     | 13 mm             |           | 41      | 13,5    | 21       |          |          |          | without | 87SF TF13 MXX    | 25 | ■  |
|  | 13 | 88     | 19 mm             |           | 91      | 20      | 46       |          |          |          | without | 88SF TF19 MXX    | 10 | ■  |

# Extension Plugs

# RECTUS Series 86/87/88

|   | DN | Series | Connec-<br>tion A | Hex<br>SW | L<br>mm | D<br>mm | L1<br>mm | L2<br>mm | D1<br>mm | D2<br>mm | Valve   | Part Number       | PU | DS |
|---|----|--------|-------------------|-----------|---------|---------|----------|----------|----------|----------|---------|-------------------|----|----|
|  <p>Male Thread</p>            | 6  | 86     | R 1/8             | 11        | 100     | 9,5     | 9        |          |          |          | without | 86VN 1010 MXX     | 10 | ■  |
|   |    |        | R 1/8             | 11        | 150     | 9,5     | 9        |          |          |          | without | 86VN 1015 MXXS_01 | 10 | ■  |
|   |    |        | R 1/8             | 11        | 250     | 9,5     | 9        |          |          |          | without | 86VN 1025 MXX     | 10 | ■  |
|   | 9  | 87     | R 1/4             | 15        | 150     | 13,5    | 12       |          |          |          | without | 87VN 1315 MXX     | 10 | ■  |
|   |    |        | R 1/4             | 15        | 250     | 13,5    | 12       |          |          |          | without | 87VN 1325 MXX     | 10 | ■  |
|   |    |        |                   |           |         |         |          |          |          |          |         |                   |    |    |
|  <p>continuous Male Thread</p> | 6  | 86     | G 1/8             | 11        | 100     | 9,5     | 60       |          |          |          | without | 86VN 1010 MXXS_01 | 10 | ■  |
|   |    |        | G 1/4             | 14        | 100     | 9,5     | 60       |          |          |          | without | 86VN 1310 MXX     | 10 | ■  |
|   |    |        |                   |           |         |         |          |          |          |          |         |                   |    |    |
|   | 9  | 87     | G 1/4             | 14        | 100     | 13,5    | 60       |          |          |          | without | 87VN 1310 MXX     | 10 | ■  |
|   |    |        | G 3/8             | 17        | 100     | 13,5    | 60       |          |          |          | without | 87VN 1710 MXX     | 10 | ■  |
|   |    |        |                   |           |         |         |          |          |          |          |         |                   |    |    |
|  <p>without Thread</p>         | 6  | 86     | 10 mm             | 11        | 50      | 9,5     |          |          |          |          | without | 86VN XX05 MXX     | 10 | ■  |
|   |    |        | 10 mm             | 11        | 100     | 9,5     |          |          |          |          | without | 86VN XX10 MXX     | 10 | ■  |
|   |    |        | 10 mm             | 11        | 150     | 9,5     |          |          |          |          | without | 86VN XX15 MXX     | 10 | ■  |
|   |    |        | 10 mm             | 11        | 200     | 9,5     |          |          |          |          | without | 86VN XX20 MXX     | 10 | ■  |
|   | 9  | 87     | 14 mm             | 15        | 100     | 9,5     |          |          |          |          | without | 87VN XX10 MXX     | 10 | ■  |
|   |    |        | 14 mm             | 15        | 150     | 9,5     |          |          |          |          | without | 87VN XX15 MXX     | 10 | ■  |
|   |    |        | 14 mm             | 15        | 200     | 9,5     |          |          |          |          | without | 87VN XX20 MXX     | 10 | ■  |
|   |    |        | 14 mm             | 15        | 250     | 9,5     |          |          |          |          | without | 87VN XX25 MXX     | 10 | ■  |
|   |    |        |                   |           |         |         |          |          |          |          |         |                   |    |    |