



PNEUMATIC
CONNECTIONS

MiniTec profiles are designed for integrated air-piping. The use of the profile-cavities reduces the risk of pipe-leaks significantly. Standard-connectors g 1/4 and g 1/8 can be used.

PNEUMATIC SYSTEM



All standard pneumatic elements with thread G 1/8" und G 1/4" can be used with all standard MiniTec profiles. Fixing is possible at any desired point.

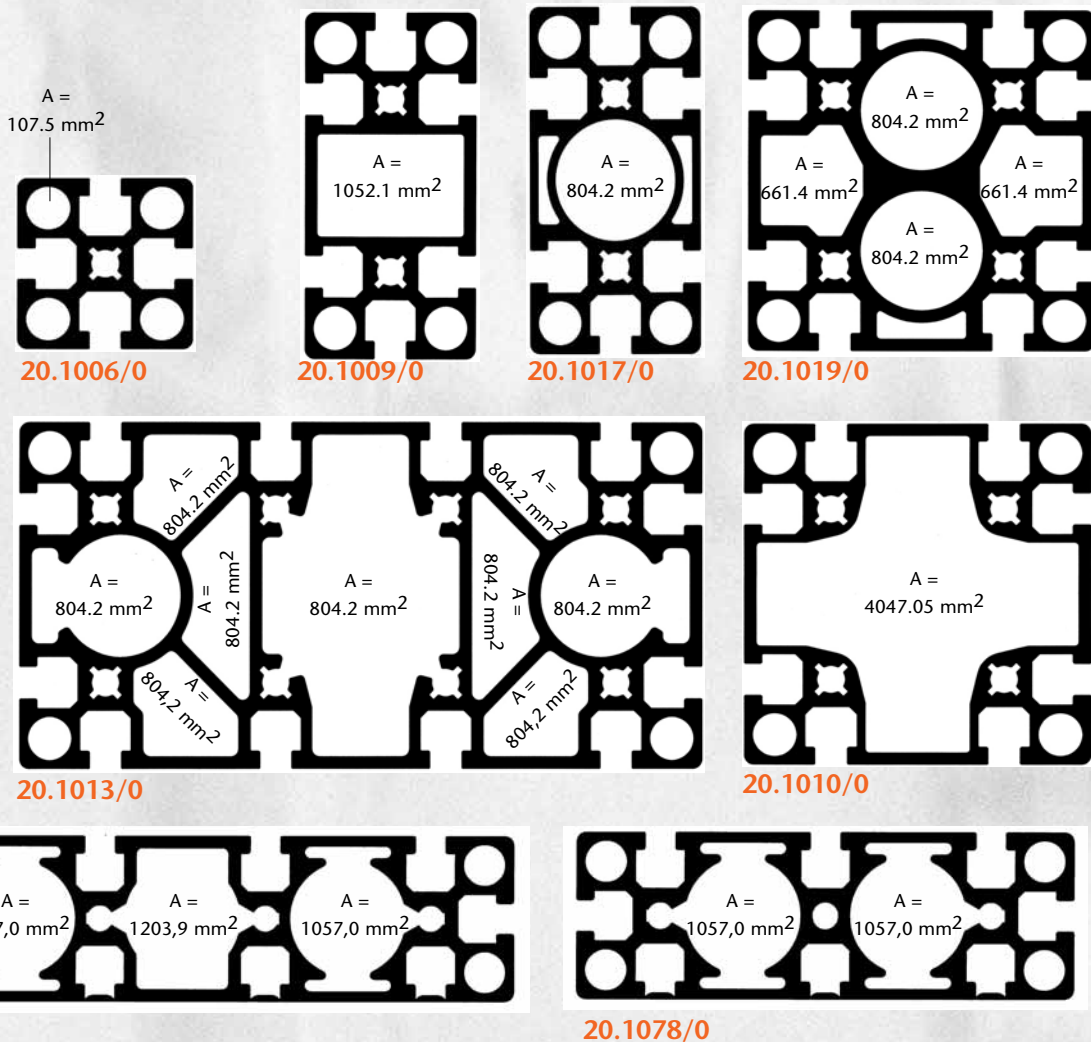


The standard profile 45 x 45 provides 4 pipes; in the larger profiles 4 pipes and 1 air chamber are included. Parts are required for face-connection .

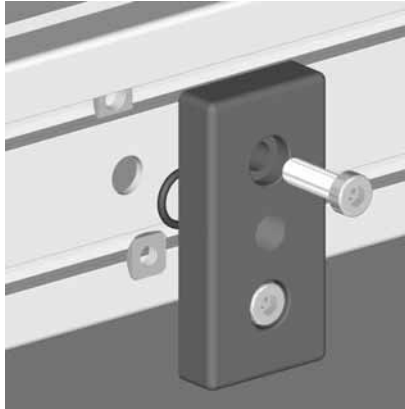
The Ø 11.7 mm bore in the standard profiles can be rebores to G 1/4" for fastening standard screw connectitons.

Max. pressure: for round chambers 20 bar; for others: 8 bar.

Useable air pipings



PNEUMATIC CONNECTION PLATE 45



Technical data/ items supplied

- Aluminium pressure die casting, powder-coated, grey
- One O-ring
- With fixing kit

Applications

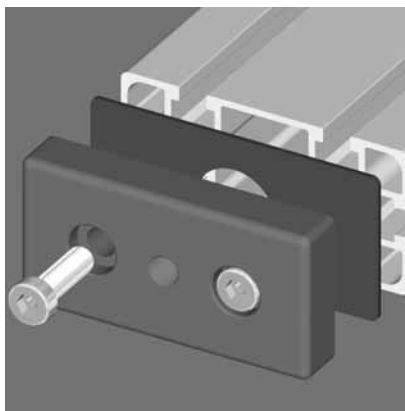
- Lateral connection of pneumatic connections at profiles 45 x 90 or lager

Assembly

- Attache at profile grooves with fixing kit
- Drill \varnothing 12 mm hole in the profile center.

| Thread | Weight | Part no. |
|--------|--------|-----------|
| G 1/8" | 0.170 | 24.1107/0 |
| G 1/4" | 0.168 | 24.1107/2 |
| G 3/8" | 0.165 | 24.1107/3 |

PNEUMATIC CONNECTION PLATE 45 X 90



Technical data/ items supplied

- Aluminium pressure die casting, powder-coated, grey
- Sealing plate
- With fixing kit

Applications

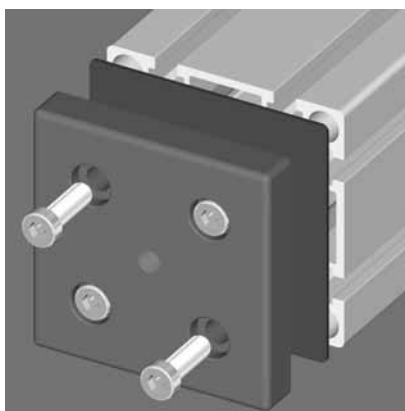
- Closing of chambers of profiles 45 x 90 for connection of pneumatic couplings

Assembly

- Insert sealing plate
- Attach on 2 central bores \varnothing 7.5 mm with fixing kit

| Thread | Weight | Part no. |
|--------|--------|-----------|
| G 1/8" | 0.181 | 24.1105/0 |
| G 1/4" | 0.178 | 24.1105/2 |
| G 3/8" | 0.174 | 24.1105/3 |

PNEUMATIC CONNECTION PLATE 90



Technical data/ items supplied

- Aluminium pressure die casting, powder-coated, grey
- Sealing plate
- With fixing kit

Applications

- Closing of chambers of profiles 90 x 90 for connection of pneumatic couplings

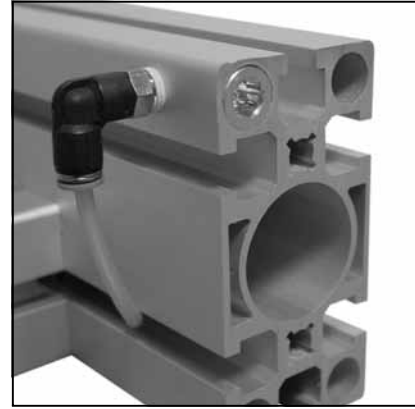
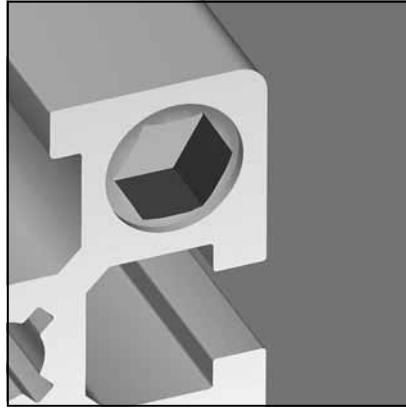
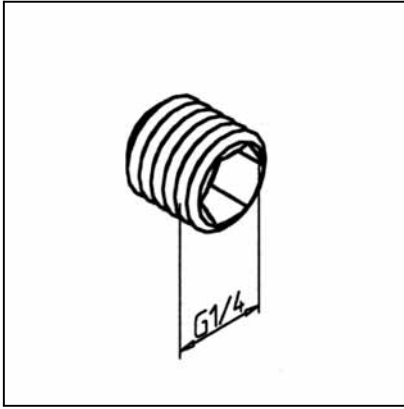
Assembly

- Insert sealing plate
- Attache on 4 central bores \varnothing 7.5 mm with fixing kit

| Thread | Weight | Part no. |
|--------|--------|-----------|
| G 1/8" | 0.434 | 24.1106/0 |
| G 1/4" | 0.429 | 24.1106/2 |
| G 3/8" | 0.421 | 24.1106/3 |

PLUG

Part. N° 24.1104/0



TECHN. DATA / ITEMS SUPPLIED

- Brass
- Weight 0,006 kg

APPLICATIONS

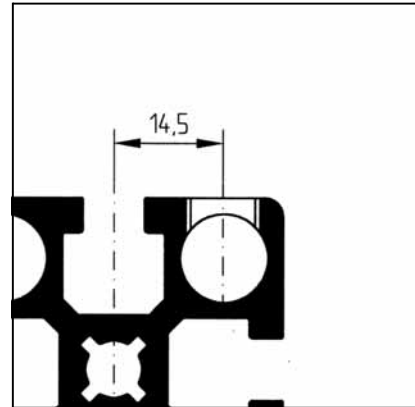
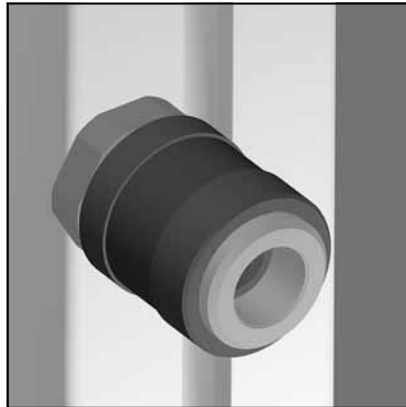
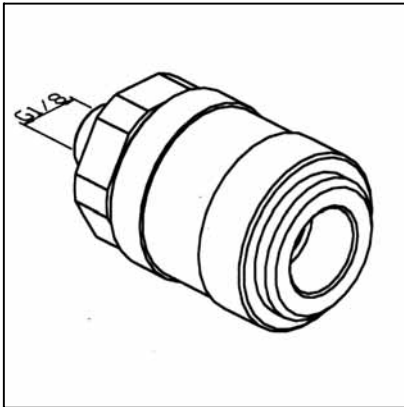
- Closure for profile chambers Ø 11,7 mm

ASSEMBLY

- Thread the round profile chambers Ø 11,7 mm to G 1/4 "
- Screw-in the plug by using sealing tape

QUICK COUPLING 1/8

Part. N° 24.1109/0



TECHN. DATA / ITEMS SUPPLIED

- Brass, nickel plated, NW 7
- Connection G 1/8", Sw 22
- Weight 0,064 kg

APPLICATION

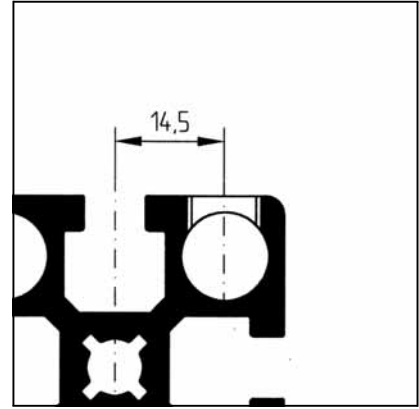
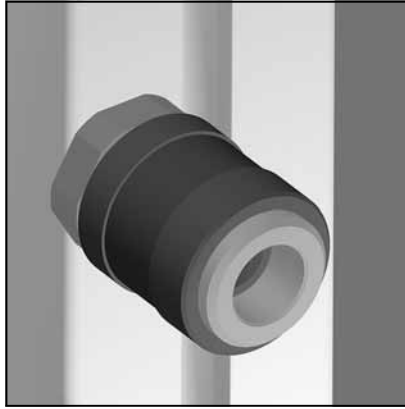
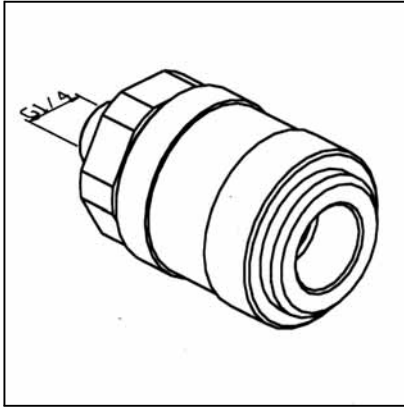
- Pressed air connection at any desired point on profile surface or faces, Ø 11,7 mm

ASSEMBLY

- Bore thread G 1/8" in profile surface; distance from profile groove: 14,5 mm

QUICK COUPLING 1/4

Part. N° 24.1110/0

**TECHN. DATA / ITEMS SUPPLIED**

- Brass, nickel plated, NW 7
- Connection G 1/4", Sw 22
- Weight 0,065 kg

APPLICATIONS

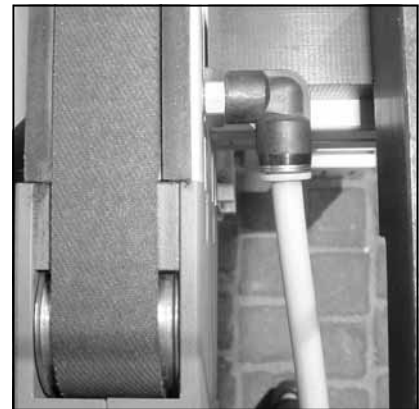
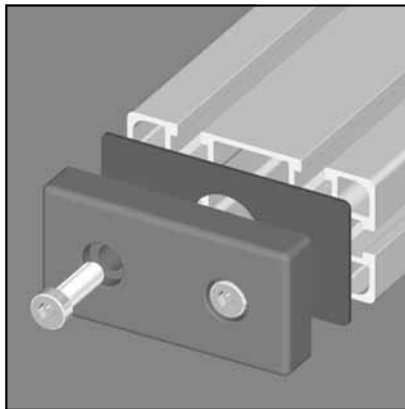
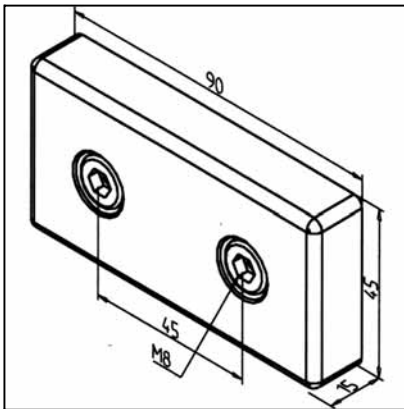
- Pressed air connection at any desired point on profile surface or faces, Ø 11,7 mm

ASSEMBLY

- Bore thread G 1/4" in profile surface; distance from profile groove: 14,5 mm

PNEUMATIC END PLATE 45 X 90

Part. N° 24.1105/7

**TECHN. DATA / ITEMS SUPPLIED**

- Aluminium GD, powder coated, grey
- Sealing plate
- Fixing kit
- Weight 0,181 kg

APPLICATION

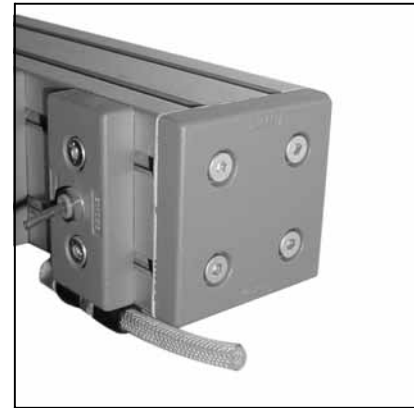
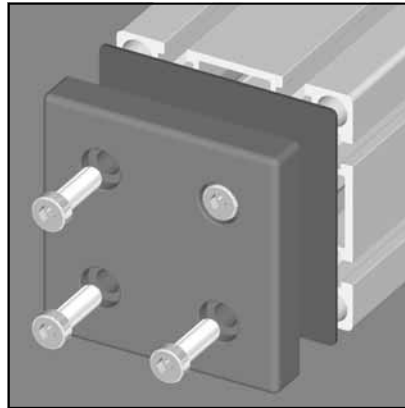
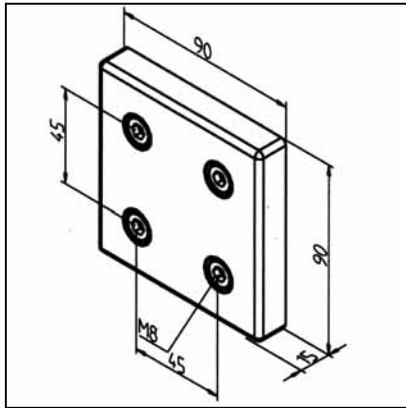
- Closing of chamber ends of profiles 45 x 90

ASSEMBLY

- Insert sealing plate
- Attachment on 2 central bores Ø 7,5 with fixing kit from supply schedule

PNEUMATIC END PLATE 90 X 90

Part. N° 24.1106/7



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey
- Sealing plate
- Fixing kit
- Weight 0,434 kg

APPLICATIONS

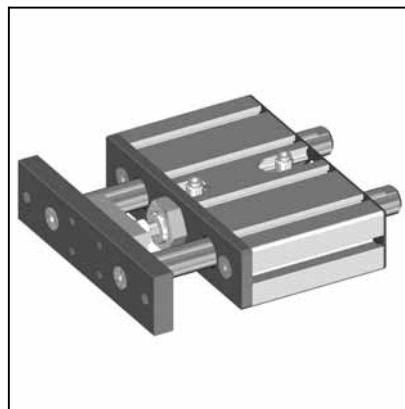
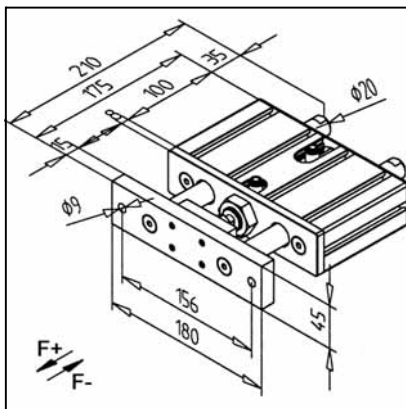
- Closing of chambers of profiles 90 x 90 for connection of pneumatic couplings

ASSEMBLY

- Insert sealing plate
- Attachment on 4 central bores $\varnothing 7,5$ with fixing kit from supply schedule

PNEUMATIC LIFTING UNIT 15

Part. N° 24.1201/0



TECHN. DATA / ITEMS SUPPLIED

- Incorporated into section 45 x 180
- Overall cylinder size $\varnothing 25$ mm
- Guide shafts $\varnothing 20$ mm
- F+ with 6 bar = 256 N
- F- with 6 bar = 220 N
- Hub = 15 mm
- Completely assembled with dual acting cylinder
- Weight 3,405 kg

APPLICATIONS

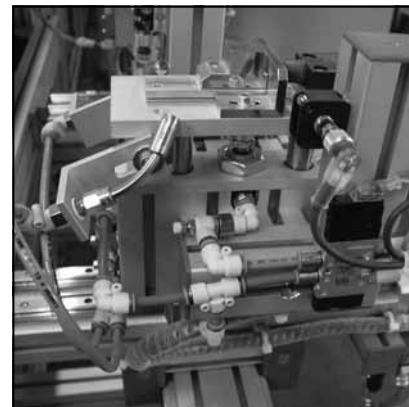
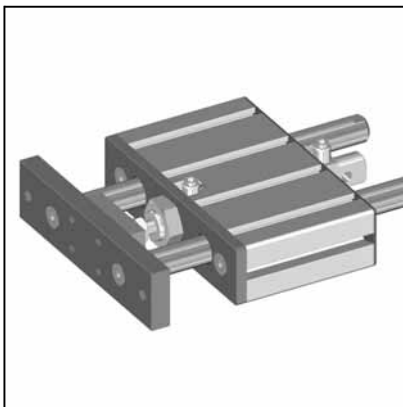
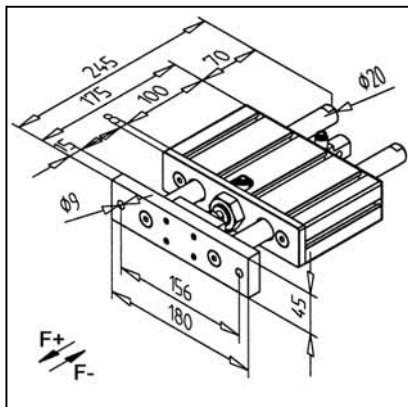
- Lifting and lowering of loads
- Attachment for gripper loc. Cit.
- Positioning of parts

ASSEMBLY

- With mounting angle on profile construction
- Other stroke lengths on request

PNEUMATIC LIFTING UNIT 50

Part. N° 24.1205/0



TECHN. DATA / ITEMS SUPPLIED

- Incorporated into section 45 x 180
- Cylinder Ø 25 mm
- Guide shafts Ø 20 mm
- F+ with 6 bar = 265 N
- F- with 6 bar = 220 N
- Hub = 50 mm
- Completely assembled with dual acting cylinder
- Weight 3,45 kg

APPLICATIONS

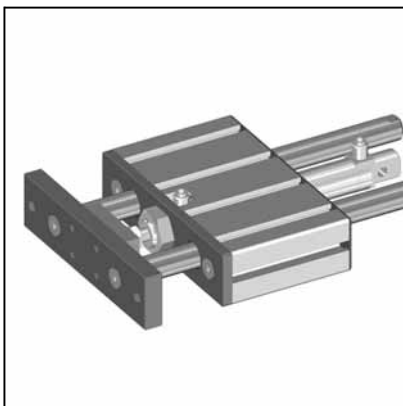
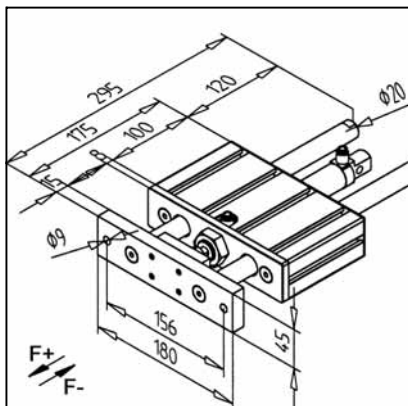
- Lifting and lowering of loads
- Attachment for gripper loc. Cit.
- Positioning of parts

ASSEMBLY

- With mounting angle on profile construction
- Other stroke lengths on request

PNEUMATIC LIFTING UNIT 100

Part. N° 24.1210/0



TECHN. DATA / ITEMS SUPPLIED

- Incorporated into section 45 x 180
- Cylinder Ø 25 mm
- Guide shafts Ø 20 mm
- F+ with 6 bar = 265 N
- F- with 6 bar = 220 N
- Hub = 100 mm
- Completely assembled with dual acting cylinder
- Weight 3,52 kg

APPLICATIONS

- Lifting and lowering of loads
- Attachment for gripper loc. Cit.
- Positioning of parts

ASSEMBLY

- With mounting angle on profile construction
- Other stroke lengths on request