

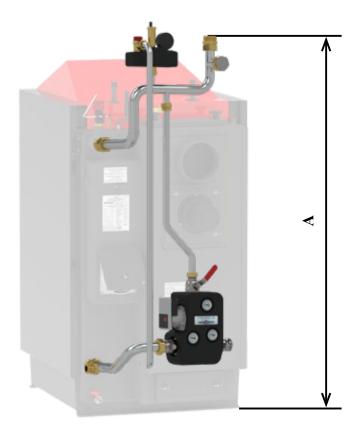
Connection (only boiler circuit) of ATMOS boilers up to 40 kW with manual stoking

Description: Professional **stainless steel connection based on 35 \times 1.5 mm diameter pipe**, designed to maintain a minimum **temperature of return water to the boiler** and quickly connect the boiler using two 6/4" flat seal fittings. The connection includes all the necessary components required by the manufacturer (safety valve 2.5 bar, vent valve, manometer, Laddomat 22, set of pipes for different variants of boilers and unconnected separate pump group ESBE type GRA211 with manually operated three-way valve and pump.

Info: The connection (boiler circuit) is ready to connect the boiler directly to the heating system or to connect the boiler to accumulation tanks.

The connection can be used with ATMOS/ESBE circulation units, which can be expanded to two or three heating circuits for a larger heating system by purchasing a special manifold and the necessary circulation unit.

The connection can also be connected to a standard separate three-way valve and pump in the heating system circuit.



The connection

ATMOS F21 Laddomat - code: P0621 for boilers (DC18S, DC22S, DC22SX, DC25S, DC30SX,

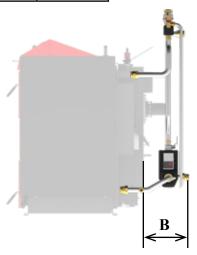
C15S, C18S, AC16S, AC25S)

ATMOS F22 Laddomat - code: P0622

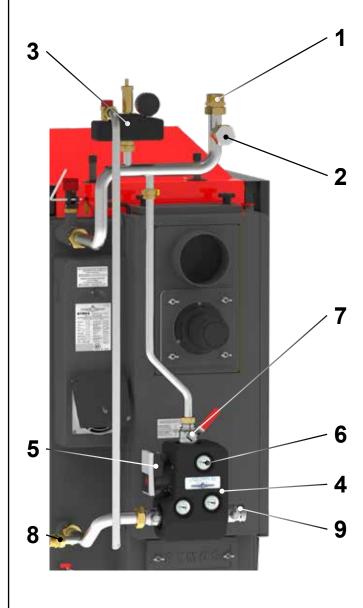
for boilers (DC32S, DC40SX, DC15GS, DC20GS, DC25GS, DC32GS, DC18GD, DC25GD, DC30GD)

The connection type	A height	B Connection depth behind the boiler
ATMOS F21 Laddomat	1331	280 - 340
ATMOS F22 Laddomat	1405	280 - 340

- dimensions in mm



ATMOS F21 Laddomat / ATMOS F22 Laddomat



- WILD WILD BE
- Předepsané nastavení čerpadla v kotlovém okruhu

 na maximum a konstantní výtlačnou výšku

 Doporučujeme neměnit

- 1 vertical hot water outlet from the boiler to the accumulation tank (heating system circulation units)
- 2 horizontal hot water outlet from the boiler to the accumulation tank (heating system pump groups)
- 3 safety set (safety valve 2,5 bar, vent valve and pressure gauge)
- 4 Laddomat X22 for one boiler circuit (with special ball valves)
- 5 pump in the boiler circuit (part of Laddomat X22)
- 6 thermometers (part of Laddomat X22)
- 7 ball valve fitting male thread (part of Laddomat X22)
- 8 expansion tank output (1")
- 9 return from the accumulation tank (heating circuit) (inlet to the Laddomat 6/4" male thread)

Accessories in the package

- 3/4" - 3 mm flat sealing	1 pc
- 1" - 3 mm flat sealing	7 pcs
- 6/4" - 3 mm flat sealing	4 pcs
- 2" - 3 mm flat sealing	2 pcs
- thermometer for Laddomatu 22	3 pcs
- nipple 6/4"	1 pc
- plug 1"	1 pc

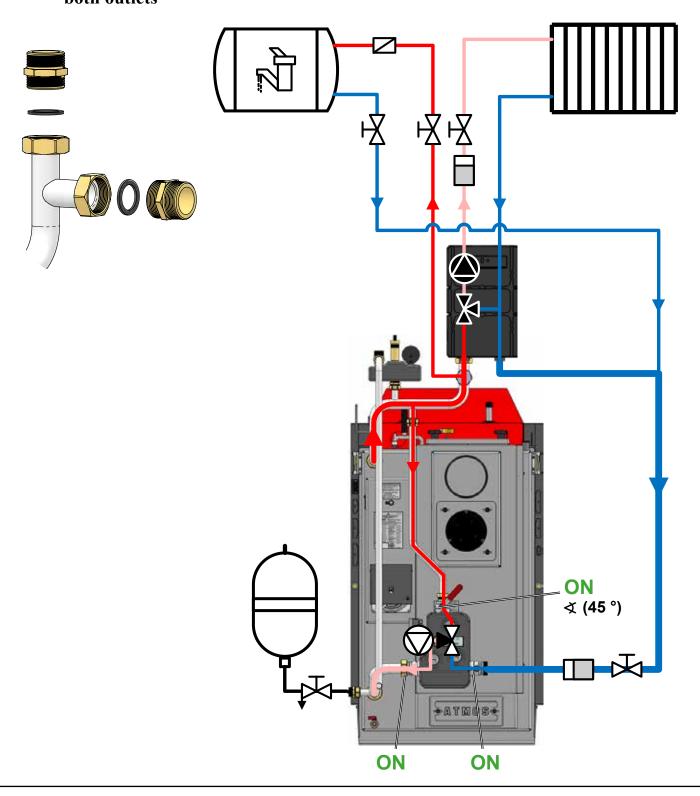
Example of connection ATMOS F21 / F22 Laddomat without accumulation tank (boiler circuit + one heating circuit + DHW heating circuit)

The connection ATMOS F21 / F22 Laddomat extended o:

- heating circuit - circulation unit ESBE GRA211 with manually operated three-way valve - code: P0538

ATTENTION - With this connection, the DHW boiler is charged by a pump in the boiler circuit (Laddomat X22). The water temperature in the boiler matches the boiler temperature.

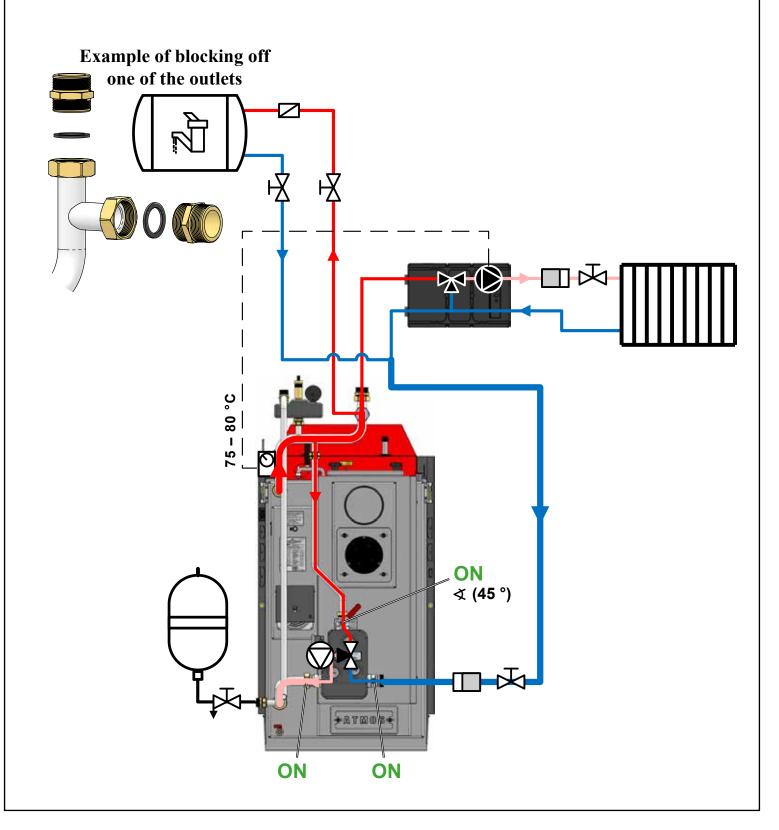
Example of using nipple by both outlets



Example of connection ATMOS F21 / F22 Laddomat without accumulation tank (boiler circuit + one heating circuit + DHW heating circuit)

The connection ATMOS F21 / F22 Laddomat extended o:

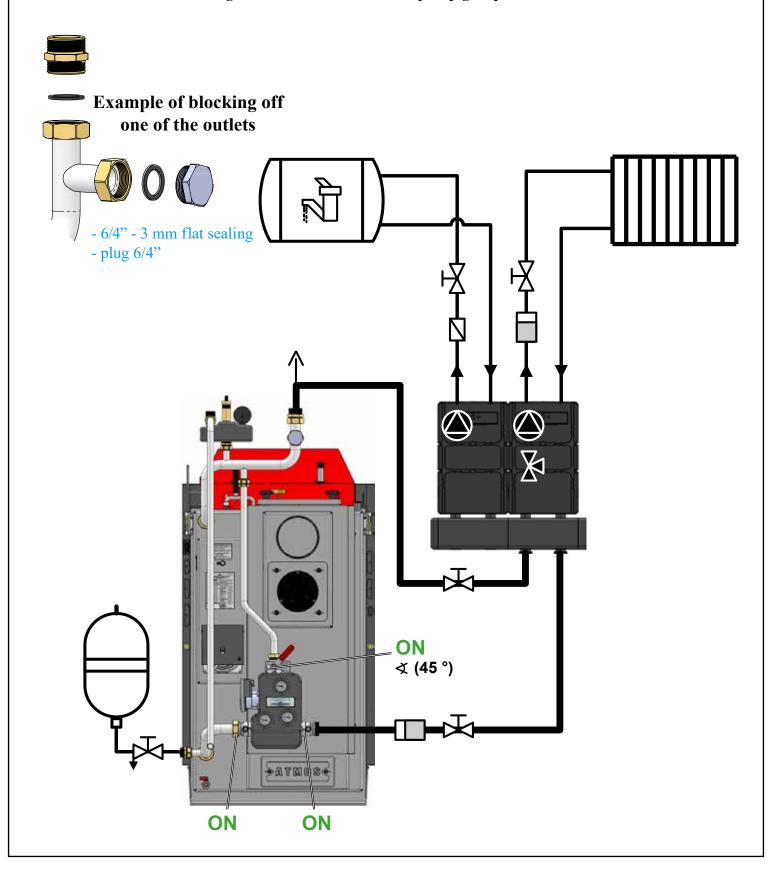
- heating circuit circulation unit ESBE GRA211 with manually operated three-way valve code: P0538
- manifold ATMOS ESBE GMA421 (two circuit) code: P0515
- DHW heating circuit circulation unit ATMOS ESBE GDA211 direct code: P0512



Example of connection ATMOS F21 / F22 Laddomat without accumulation tank (boiler circuit + one heating circuit + DHW heating circuit)

Connection ATMOS F21 / F22 Laddomat extended by:

- heating circuit circulation unit ESBE GRA211 with manually operated three-way valve code: P0538
- ATMOS ESBE GMA421 manifold (double-circuit) code: P0515
- circuit for DHW heating ATMOS ESBE GDA211 pump group direct code: P0512

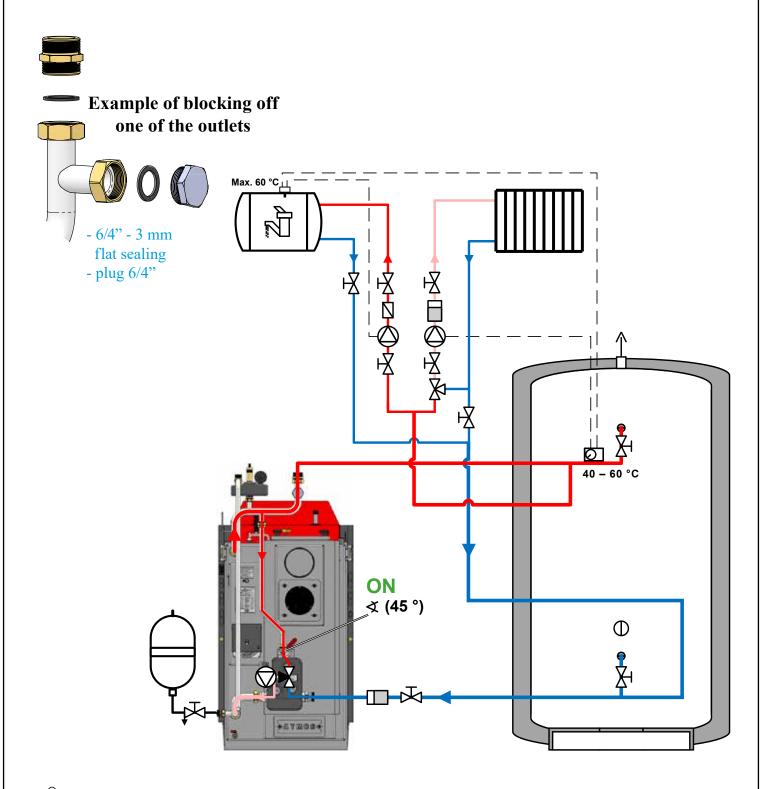


Example of connection ATMOS F21 / F22 Laddomat with accumulation tank

(boiler circuit + one heating circuit + DHW heating circuit)

Connection ATMOS F21 / F22 Laddomat extended by:

- heating circuit three-way mixing valve and circulation pump
- DHW heating circuit circulation (charging) pump





Example of connection ATMOS F21 / F22 Laddomat with accumulation tank

(boiler circuit + one heating circuit + DHW heating)

Connection ATMOS F21 / F22 Laddomat

- production design

Boiler circuit

Laddomat X22 (code: P0247)

(thermoregulatory 78 °C (72 °C))

Connection extended by:

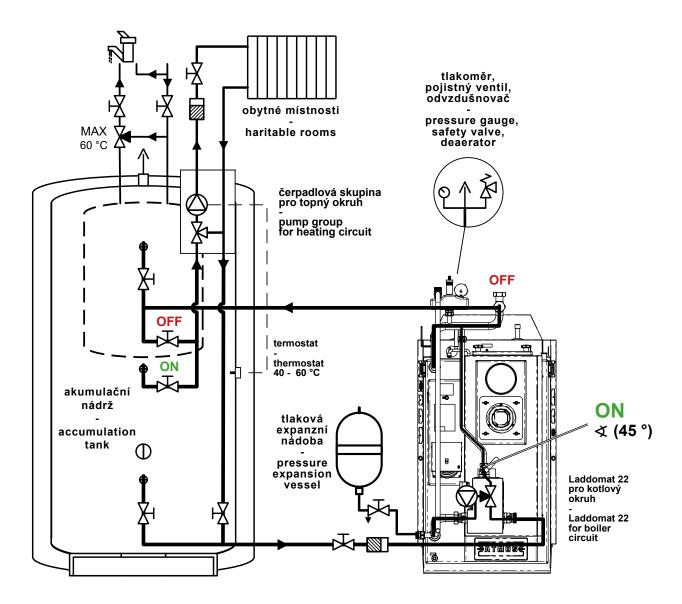
Heating circuit

GRA211 (code: P0538)

(mixing – three-way valve without servo actuator)

ATTENTION – DHW heating is provided by a floating boiler in the accumulation tank.

The output from the accumulation tank to the heating system is connected in such a way that it does not discharge the top of the accumulation tank with the floating boiler for DHW heating.





Example of connection ATMOS F21 / F22 Laddomat with accumulation tank

(boiler circuit + one heating circuit + DHW heating)

Connection ATMOS F21 / F22 Laddomat

- production design

Boiler circuit

Laddomat X22 (code: P0247)

(thermoregulatory 78 °C (72 °C))

Connection extended by:

Heating circuit

GRA211 (code: P0538)

(mixing – three-way valve without servo actuator)

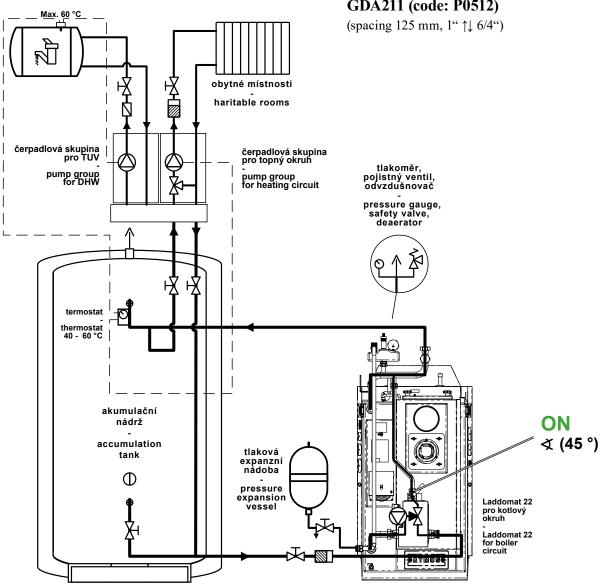
Manifold for two circuits **GMA421 (code: P0515)**

(spacing 125 mm, 6/4" ↑↓ 6/4")

Circulation unit

- direct (for DHW)

GDA211 (code: P0512)





Example of connection ATMOS F21 / F22 Laddomat with two accumulation tanks (parallel connection)

(boiler circuit + one heating circuit + DHW heating circuit)

Connection ATMOS F21 / F22 Laddomat

- production design

Boiler circuit

Laddomat X22 (code: P0247)

(thermoregulatory 78 °C (72 °C))

Connection extended by:

Heating circuit

GRA211 (code: P0538)

(mixing – three-way valve without servo actuator)

+

Manifold for two circuits GMA421 (code: P0515)

(spacing 125 mm, 6/4" ↑↓ 6/4")

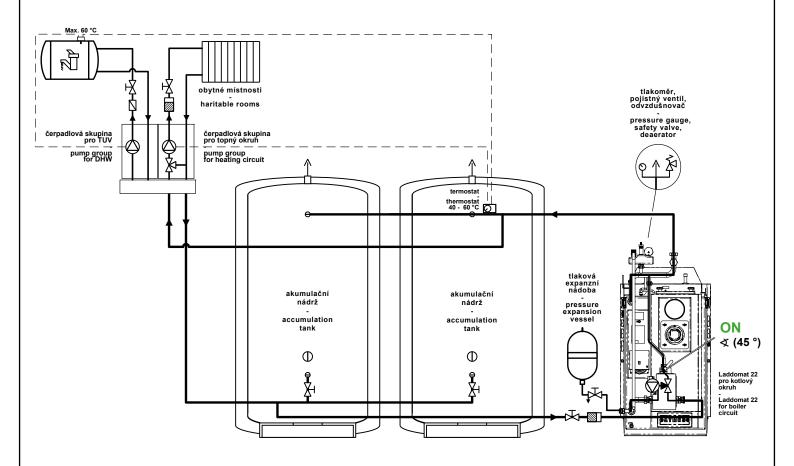
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Circulation unit

- direct (for DHW)

GDA211 (code: P0512)

(spacing 125 mm, 1" ↑↓ 6/4")





Example of connection ATMOS F12 Laddomat with two accumulation tanks (serial connection)

(boiler circuit + one heating circuit + DHW heating)

Connection ATMOS F21 / F22 Laddomat

- production design

Boiler circuit

Laddomat X22 (code: P0247)

(thermoregulatory 78 °C (72 °C))

Connection extended by:

Heating circuit

GRA211 (code: P0538)

(mixing – three-way valve without servo actuator)

+

Manifold for two circuits GMA421 (code: P0515)

(spacing 125 mm, 6/4" ↑↓ 6/4")

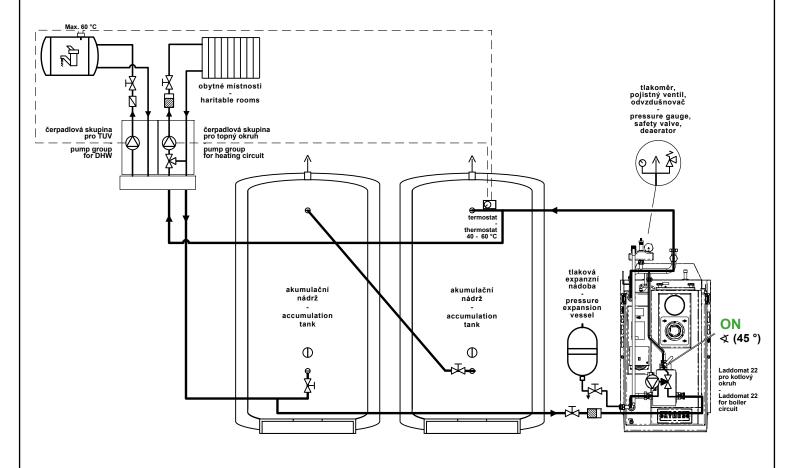
+

Circulation unit

- direct (for DHW)

GDA211 (code: P0512)

(spacing 125 mm, 1" ↑↓ 6/4")





Example of connection ATMOS F12 Laddomat with two accumulation tanks and equithermal regulation ACD 03/04

(boiler circuit + two heating circuits + DHW heating circuit)

Connection ATMOS F21 / F22 Laddomat

- production design

Boiler circuit

Laddomat X22 (code: P0247)

(thermoregulatory 78 °C (72 °C))

Boiler supplemented by:

Regulace ATMOS ACD 03 AGF with accessories (code: S0103)

Connection extended by:

Heating circuits

2x Circulation unit

- controlled - actuator 120 s

GRA211 (code: P0514)

(spacing 125 mm, 1" ↑↓ 6/4")

+

Circulation unit

- direct (for DHW)

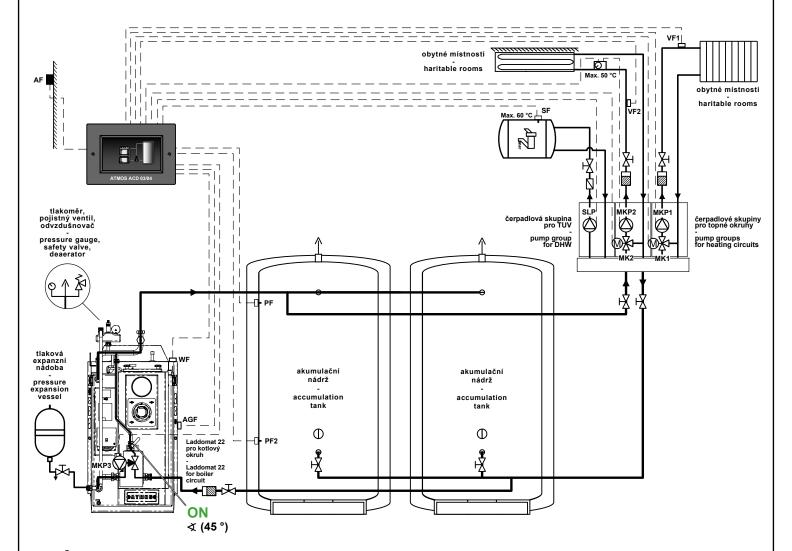
GDA211 (code: P0512)

(spacing 125 mm, 1" ↑↓ 6/4")

+

Manifold for three circuits GMA431 (code: P0516)

(spacing 125 mm, 6/4" ↑↓ 6/4")





Accessories for extension of the basic connection

Circulation unit ATMOS ESBE GRA211

Controlled - actuator 120 s Spacing 125 mm - 1" ↑↓ 6/4" Recommended for radiators/underfloor heating (order code: P0514)

Circulation unit ATMOS ESBE GFA211

Thermostatic 20 - 55 °C Spacing 125 mm - 1" ↑↓ 6/4" Recommended for **underfloor heating** (order code: P0513)

Circulation unit ATMOS ESBE GDA211

Direct
Spacing 125 mm - 1" ↑↓ 6/4"
Recommended
for domestic hot water(order code: P0512)



Manifold for three circulation units (three circuits) ATMOS ESBE GMA431

Spacing 125 mm - 6/4" ↑↓ 6/4" (order code: P0516)

Circulation unit ATMOS ESBE GRA211

Mixing
Spacing 125 mm - 1" ↑↓ 6/4"
Recommended
for radiators
(order code: P0538)

Circulation unit ATMOS ESBE GDA211

Direct
Spacing 125 mm - 1" ↑↓ 6/4"
Recommended
for domestic hot water
(order code: P0512)



Servo actuator ESBE ARA 661 230 V - 120 s - 6 Nm (order code: P0415)



Manifold for two circulation units (two circuits) ATMOS ESBE GMA421

Spacing 125 mm - 6/4" ↑↓ 6/4" (order code: P0515)