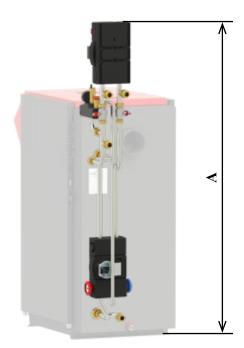


Connection for ATMOS DxxPX boilers automatic pellet boilers up to 25 kW

Description: Professional **stainless steel connection based on 22** × **1.5 mm diameter pipe**, designed to maintain a minimum **temperature of return water to the boiler** and quickly connect the boiler using two 1" / 6/4" fittings with flat seal.

The connection includes all the necessary components required by the manufacturer (safety valve 2.5 bar, vent valve, manometer, two pumps, two shut-off valves, three-way valve).

Info: The connection is ready to connect the boiler directly to the heating system or to connect the boiler to accumulation tanks. In the case of a larger heating system, the connection can be extended to two or three heating circuits by purchasing a special distributor and the necessary pump group (with spacing 90 mm - 1" $\uparrow\downarrow$ 1").



D10PX

Connection

ATMOS F15 ESBE-PX - code: P0615

for boilers (D10PX)

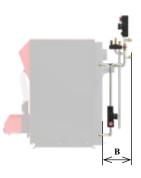
ATMOS F16 ESBE-PX - code: P0616

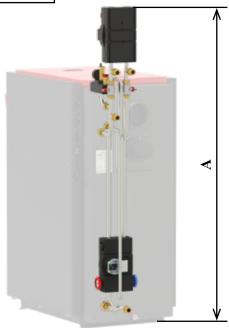
for boilers (D15PX, D20PX, D25PX)

Connection type	A height	B connection depth behind the boiler
ATMOS F15 ESBE-PX	1645	461
ATMOS F16 ESBE-PX	1845	461

⁻ dimension in mm

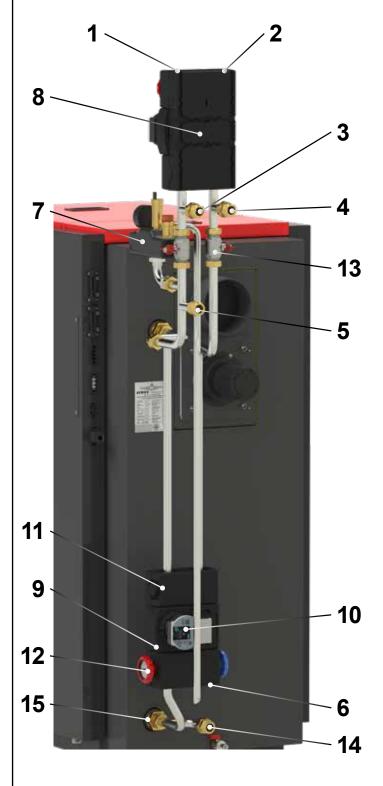
^{*} manifold height 124 mm





D15PX, D20PX, D25PX

ATMOS F15 ESBE-PX / ATMOS F16 ESBE-PX





Prescribed pump setting in the boiler circuit

- to maximum and constant displacement height

We recommend not to change it

- 1 outlet (of hot water) to the heating system
- 2 return from the heating system
- 3 (hot water) inlet from the accumulation tank to the pump group of the heating circuit (when connecting without accumulation tank, it is necessary to block it off)
- 4 return to the accumulation tank from the pump group of the heating circuit (when connecting without accumulation tank, it is necessary to block it off)
- 5 hot water outlet from the boiler to the accumulation tank(when connecting without accumulation tank, it is necessary to block it off)
- 6 return from the accumulation tank to the boiler (when connecting without accumulation tank, it is necessary to block it off)
- 7 safety set (safety valve 2,5 bar, vent valve and pressure gauge)
- 8 ESBE GRA311 circulation unit (pump group) with manually operated three-way valve for one heating circuit
- 9 ESBE GFA321 circulation unit (pump group) with thermoregulatory valve (70 °C)
- 10 pump in the boiler circuit (part of the ESBE GFA321 circulation unit)
- 11 three-way thermoregulatory valve (70 °C) (part of the ESBE GFA321 circulation unit)
- 12 ball valve with thermometer (part of the ESBE GFA321 circulation unit)
- 13 ball valves for switching when connection with and without the accumulation tank (for flow adjustment)
- 14 expansion tank output (1")
- 15 nipple 1" / 6/4"

Accessories in the package

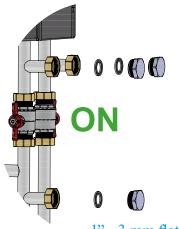
- flat sealing 1"	9 pcs
- flat sealing 3/4"	2 pcs
- plug 1"	4 pcs
- brass nut 1"	1 pc
- stainless steel sealing washer	1 pc
- insulation - Kaiflex ST19x22 - 2 m	2 pcs

Example of connection without buffer (accumulation) tank (one heating circuit - production version) - ESBE GRA311 pump group with manually operated three-way valve - code: P0533

ATMOS F15 ESBE-PX / ATMOS F16 ESBE-PX connection - production version

Example of open ball valves in connection without buffer tank

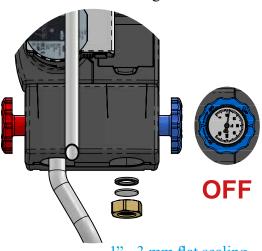
example of blocking off outlets with connection without buffer tank



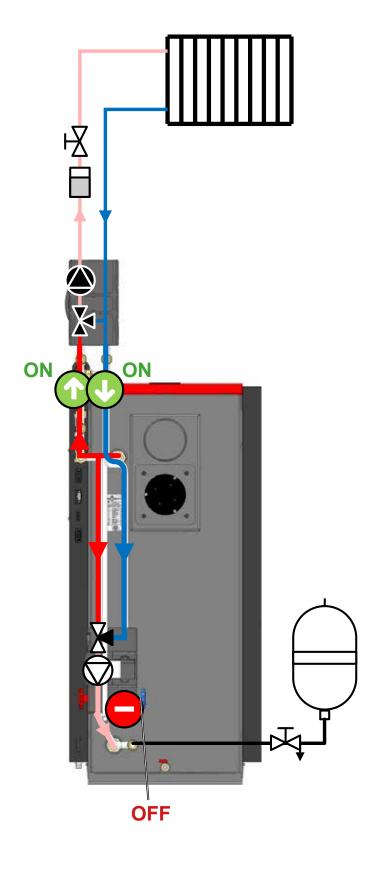
- 1" 3 mm flat sealing
- 1" plug

Stoppered inlet from the buffer tank

close valve (blue) on the boiler fitting



- 1" 3 mm flat sealing
- stainless steel sealing washer
- 1" brass nut



Example of connection without buffer (accumulation) tank (one heating circuit + DHW heating circuit)

ATMOS F15 /F16 ESBE-PX connection

- production version

Boiler circuit

GFA321 (code: P0509)

(thermoregulatory 70 °C)

Heating circuit

GRA311 (code: P0533)

(mixing – three-way valve without servo actuator)

Connection extended by:

Manifold for two circuits GMA321 (code: P0506)

(spacing 90 mm, 1" ↑↓ 1")

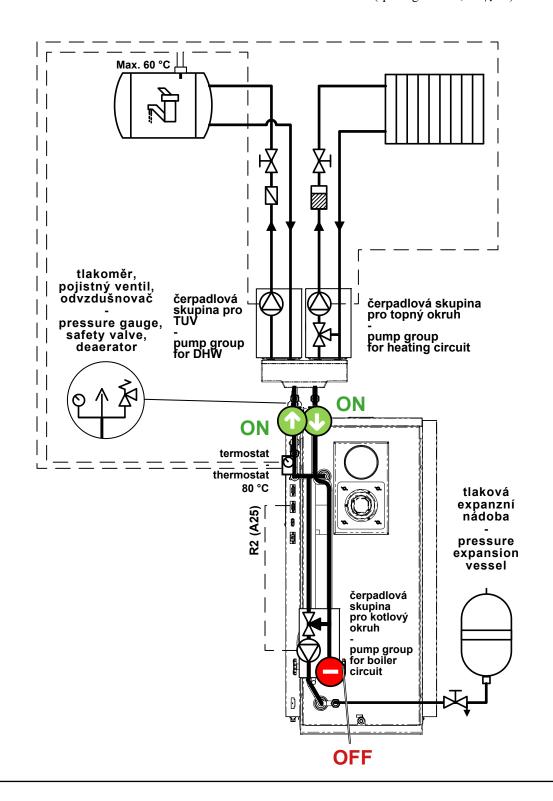
+

Circulation unit

- direct (for DHW)

GDA311 (code: P0503)

(spacing 90 mm, 1" ↑↓ 1")



Example of connection with buffer (accumulation) tank (one heating circuit + DHW heating circuit)

ATMOS F15 ESBE-PX / ATMOS F16 ESBE-PX connection - production version

- ESBE GRA311 pump group with manually operated three-way valve - code: P0533

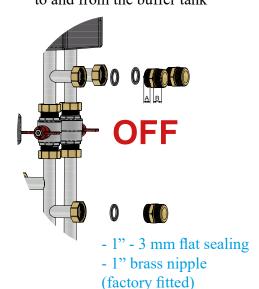
connection extended by:

- ATMOS ESBE GMA321 manifold (two-circuit) code: P0506
- ircuit for DHW heating ATMOS ESBE GDA311 pump group direct code: P0503

for screwing into the swivelnut.

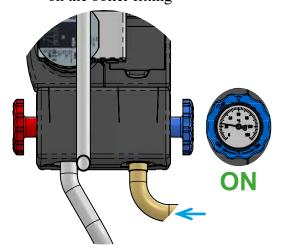
Example of close ball valves in connection without buffer tank

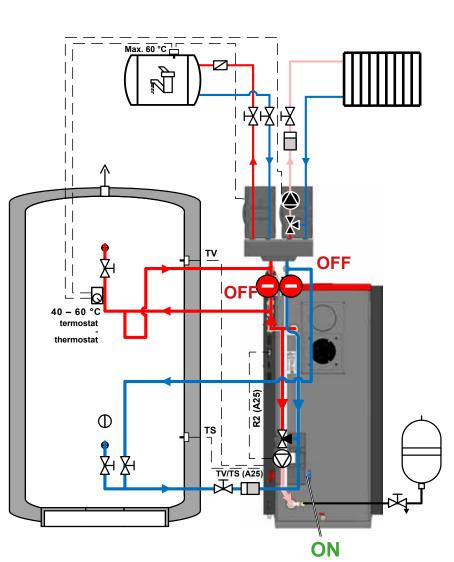
example of the outlets to and from the buffer tank



Connected inlet from the buffer tank

open valve (blue) on the boiler fitting





Attention – the shorter part of the thread of the nipple is intended

Example of connection with buffer (accumulation) tank and ATMOS ACD 03 controller (two heating circuits + DHW heating circuit)

ATMOS F15 /F16 ESBE-PX connection

- production version

Boiler circuit

GFA321 (code: P0509)

(thermoregulatory 70 °C)

Heating circuit

GRA311 (code: P0533)

(mixing – three-way valve without servo actuator)

Boiler supplemented by:

ATMOS ACD 03 controller with accessories (code: S0103)

Connection extended by:

Manifold for three circuits GMA331 (code: P0507)

(spacing 90 mm, 1" ↑↓ 1")

Circulation unit

- controlled - actuator 120 s

GRA311 (code: P0505)

(spacing 90 mm, 1" ↑↓ 1")

Circulation unit

- direct (for DHW)

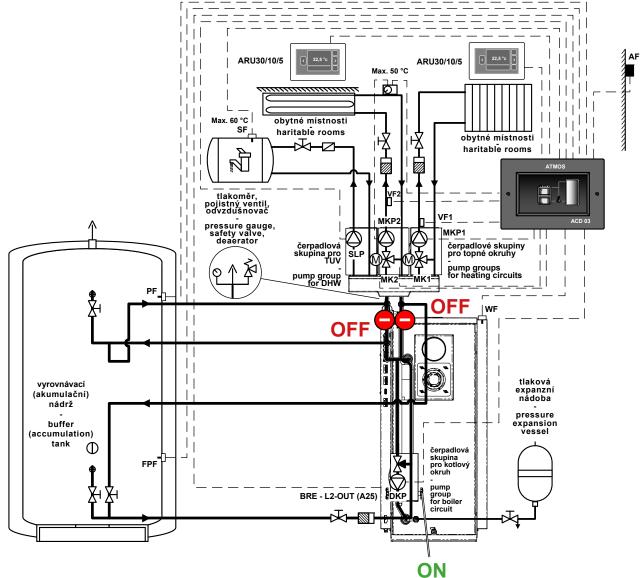
GDA311 (code: P0503)

(spacing 90 mm, 1" ↑↓ 1")

Servo actuator (for GRA311)

230 V - 120 s - 6 Nm

ESBE ARA 661 (code: P0415)



The operation of the boiler fan is controlled from the ATMOS A25 pellet burner.

Example of connection with buffer (accumulation) tank (one heating circuit + DHW heating)

ATMOS F15 /F16 ESBE-PX connection

- production version

Boiler circuit

GFA321 (code: P0509)

(thermoregulatory 70 °C)

Heating circuit

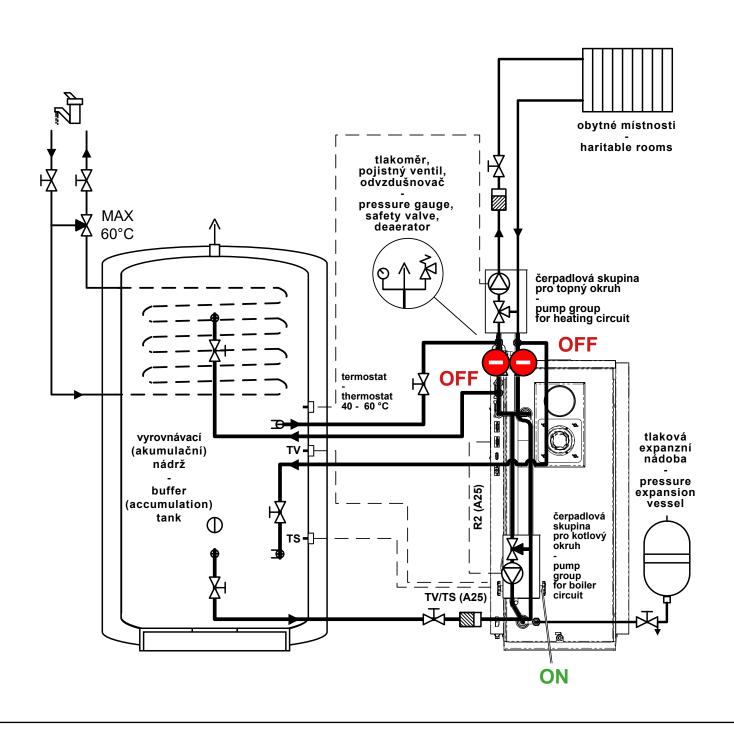
GRA311 (code: P0533)

(mixing – three-way valve without servo actuator)

ATTENTION – Connection of the accumulation tank as a hydraulic bypass (2x inlet, 2x outlet).

ATTENTION – DHW heating is provided by a flow exchanger (floating boiler) in the accumulation tank.

The outlet from the accumulation tank to the heating system is connected in such a way that it does not discharge the upper part of the accumulation tank for DHW heating.



Accessories for extension of the basic connection

Circulation unit ATMOS ESBE GRA311

Controlled - actuator 120 s Spacing 90 mm - 1" ↑↓ 1" Recommended for radiators/underfloor heating (order code: P0505)

Circulation unit ATMOS ESBE GFA311

Thermostatic 20 - 55 °C Spacing 90 mm - 1" ↑↓ 1" Recommended for **underfloor heating** (order code: P0504)

Circulation unit ATMOS ESBE GDA311

Direct
Spacing 90 mm - 1" ↑↓ 1"
Recommended
for domestic hot water
(order code: P0503)



Circulation unit ATMOS ESBE GRA311

Mixing
Spacing 90 mm - 1" ↑↓ 1"
Recommended
for radiators
(order code: P0533)

Circulation unit ATMOS ESBE GFA311

Thermostatic 20 - 55 °C Spacing 90 mm - 1" ↑↓ 1" Recommended for **underfloor heating** (order code: P0504)







