

Type 7111 Pump Assembly

Systems and modules

Application

To raise the pressure in various applications in process engineering

Function

Processes often entail the challenge that the pressure in the plant is too low requiring a raised pressure.

The **Type 7111** Pump Assembly allows the pressure to be raised to maximum 40 bar.

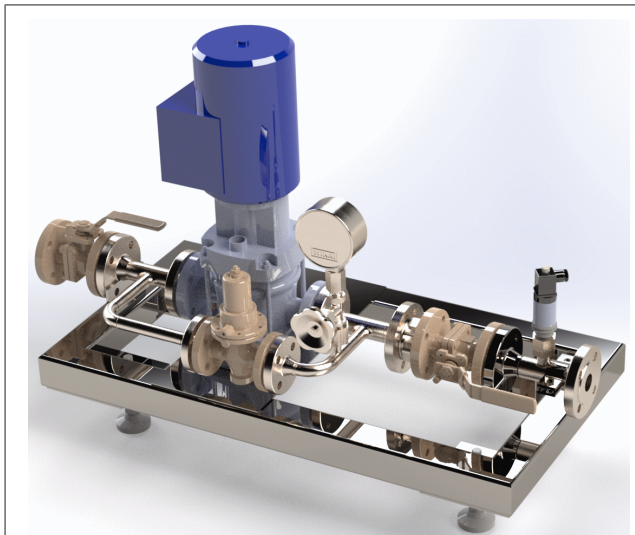


Fig. 1: Type 7111-1 Pump Assembly

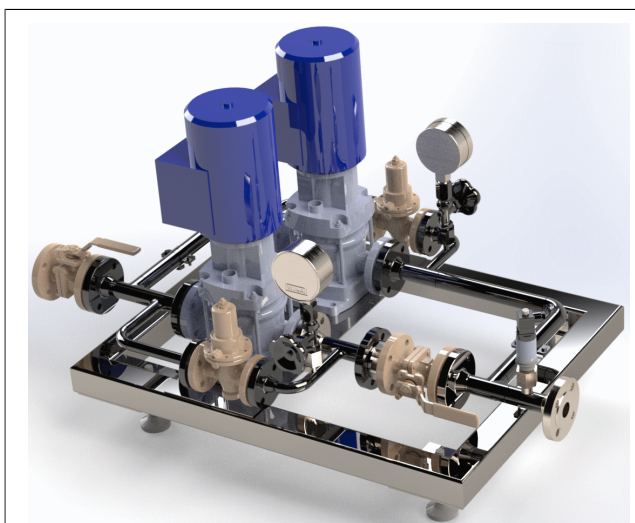


Fig. 2: Type 7111-2 Pump Assembly

Special features

- DN 25 and DN 50 both with PN 40
- Max. 40 bar
- Stainless steel version
- Suitable for condensate recovery
- Delivery pressure adjustable or restricted by a SAMSON excess pressure valve

Versions

Type 7111 Pump Assembly · Modular design · Flanged connections

- **Type 7111-1** (Fig. 1): pressure pump, adjustable Type 44-6 B Excess Pressure Valve, stable stainless steel skid, stainless steel piping
- **Type 7111-2** (Fig. 2): pressure pump plus redundant pressure pump, one adjustable Type 44-6 B Excess Pressure Valve for each pump, stable stainless steel skid, stainless steel piping

Application

To raise the water pressure or pressure of other media in SAMSON media conditioning systems.

Typical applications of **Type 7111** Pump Assembly:

Boiler feedwater

Condensate or treated water is required to fill the the **Type 7120** or **Type 7129** Electric Steam Generator. The pressure of supplied treated water must be raised by a pump assembly, for example.

- Combinable with **Type 7120** Electric Steam Generator (▶ T 3976)
- Combinable with **Type 7129** Electric Steam Generator

Steam conditioning

Steam conditioning involves cooling the superheated steam by injecting condensate or cooling water. Pumps must be used to raise the pressure of the cooling water if it is too low. The **Type 7111** Pump Assembly can be used in such cases.

- Combinable with **Type 7110** Water Bath Desuperheater (▶ T 3972)
- Combinable with **Type 7115** Spray Nozzle or **Type 7116** Steam Conditioning Unit (▶ T 3975)

Condensate recovery

When a **Type 7141** Condensate Vessel is used, the collected condensate must be pumped back into the condensate system

or the boiler feedwater tank. Depending on the system setup of the **Type 7142** Flashing Vessel, pumps must be used to drain it.

- Combinable with **Type 7141** Condensate Vessel (▶T 3986)
- Combinable with **Type 7142** Flashing Vessel (▶T 3987)

	Type 7111-1	Type 7111-2
Length A (approx.)	1250 mm	
Width B (approx.)	400 mm	800 mm
Height C (approx.) ¹⁾	700 mm	
Weight (approx.) ²⁾	90 kg	150 kg

¹⁾ Height may differ with the larger excessive heads.

²⁾ Weight depends on pump version and nominal pipe size

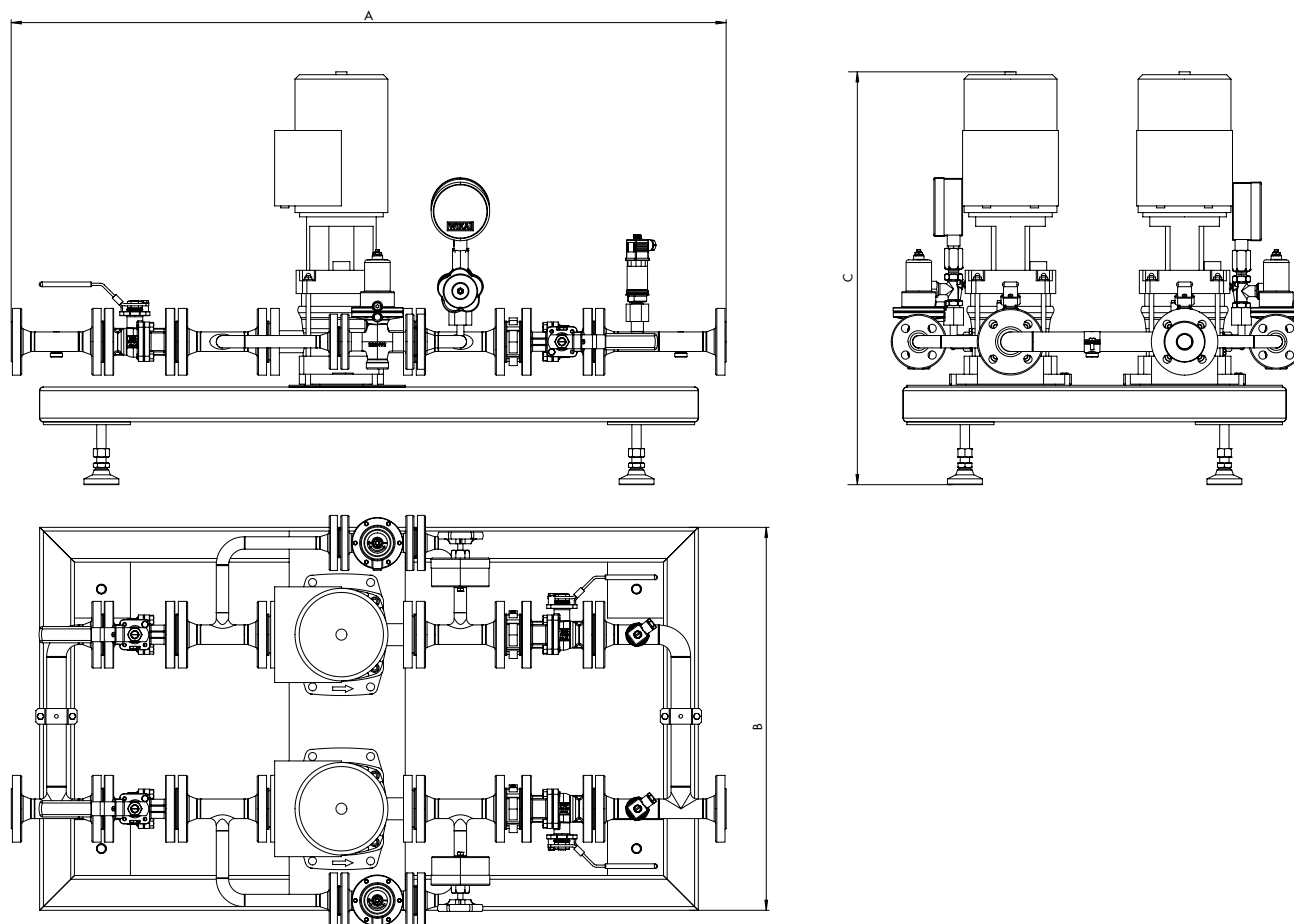


Fig. 3: Dimensions and weights of Type 7111-1/-2 Pump Assembly - Schematic drawing

Table 1: Technical data for Type 7111

	Type 7111-1/-2
Piping/pump enclosure material	1.4301/GG 25
Electrical connection ¹⁾	230 V/50 Hz
Pressure range of pump assembly ¹⁾	0 to 40 bar
Delivery rate of pump assembly ¹⁾	0 to 7 m ³ /h
Max. temperature ¹⁾	≥ TS -20 K
Connections ^{1) 2)}	DN 25 · DN 50

¹⁾ Depends on pump type and size.

²⁾ PN 40



RFQ Form for Type 7111 Pump Assembly

Customer data	
Company	
Address	
Name	
Phone number	
E-mail	
Send your inquiry to your regional SAMSON contact or e-mail it to ► systems-de@samsongroup.com	
Operating data	
Pressure specifications	Absolute Relative
For the following primary system	Type 7110 Water Bath Desuperheater Type 7115/Type 7116 Cooling Nozzle Type 3281/Type 3286 Steam Conditioning Valve Type 7141 Condensate Vessel Type 7142 Flashing Vessel Type 7120/Type 7129 Electric Steam Generator =
Process data	$P_{inlet} =$ $\dot{m}_2 =$ $T =$ $P_{outlet} =$ Alternative for quotation/(project) order number:
Options	
Open loop control	Without Wired to terminal With SAMSON standard (in conjunction with the control unit of the primary system)
Version	DIN EN ASME ATEX
Notes	