

Membrane Pressure Stations

KUNST ATM - K

EXEMPLARY LAYOUT

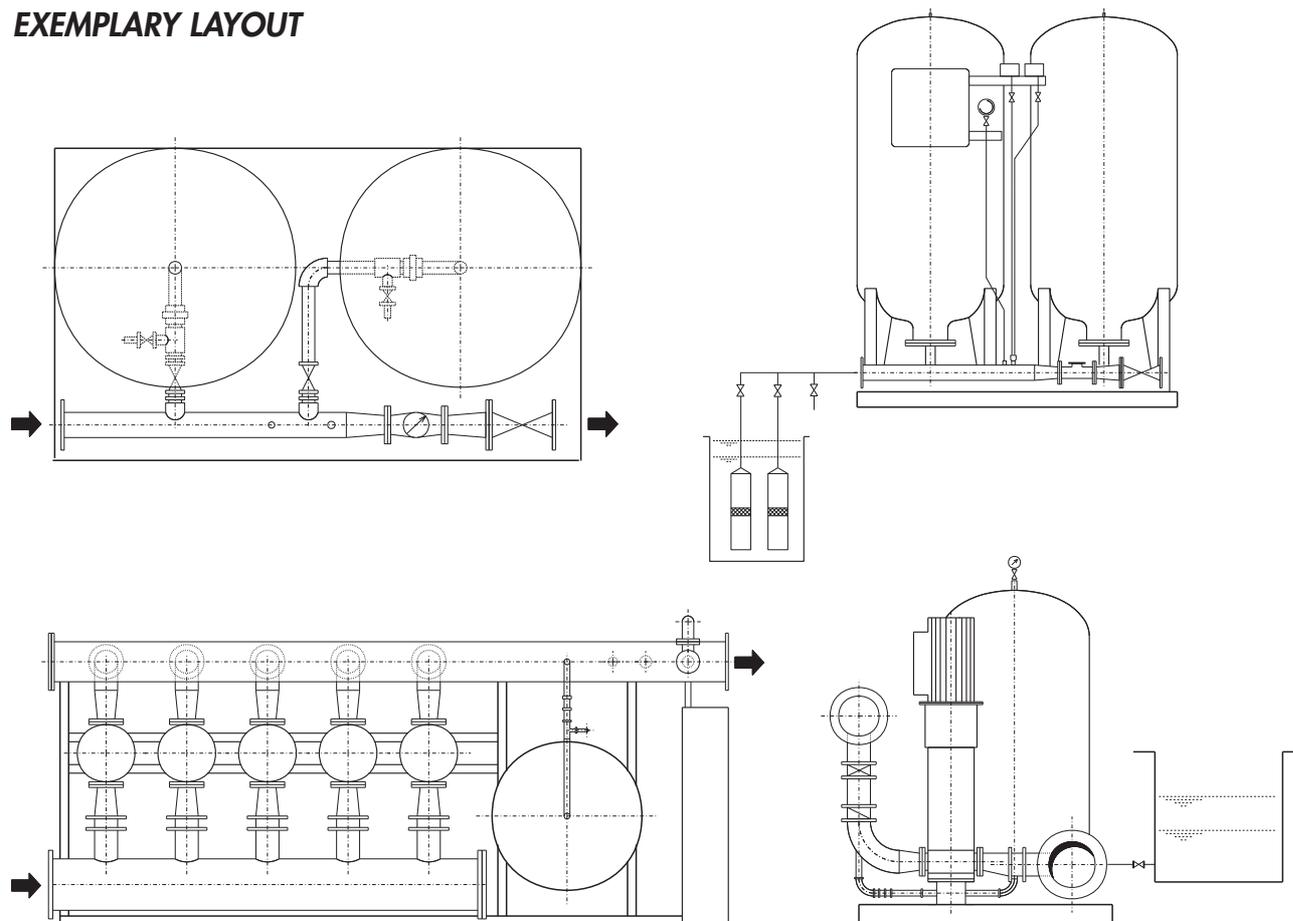


TABLE OF MAIN DIMENSIONS:

Parameter	Designation		Range
Flow	Q	l/s	0,5 - 200
Pressure interval	p	bar	2 - 15
Operation mode	in the pressure range with constant pressure		
The parameters station flow (Q), pressure interval (p) and operation mode are designed individually according to the customer's requirements.			

R.č. ATM - K 02/08-A-en

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APPLICATION

The automatic membrane pressure stations are designed for supplying of the customer area with drinking or pure potable water. They are used as a water delivery alternative way instead of water reservoirs, or as an boosting station in the main, as a local pressure source, and so similar.

FUNCTION PRINCIPLE

The pure water is delivered to the customer area by means of the pumping system and membrane pressure vessels. Bores, wells, collecting or suction sumps, water reservoirs or pressure main can serve as a water source. The number of operation pumps depends on the station demanded capacity; type of the used pumps corresponds to the water source. The pressure station can work either in pressure interval, which usually is 1 to 2 bar, or in constant pressure mode which is ensured by the pump speed control executed by frequency converters. The preferred control mode influences the station lay-out, size/number of the pressure vessels, etc. The KUNST pressure stations are assembled in strict accordance to the customer's requirements, their lay-out is optimum for arrangement of the highest station efficiency.

MATERIAL DESIGN

The pressure station piping can be made of structural steel, galvanised steel, stainless steel, or plastic. The pressure vessels are in steel with a bag of food industry rubber. The pumps are usually made of combination of stainless steel/grey cast iron, or stainless steel/bronze, equipped with mechanical gland (vertical pumps), or all stainless (submersible pumps).

OPERATION AND MAINTENANCE

The system operation does not need any permanent attendance, its maintenance is governed by the Operation/Assembly Regulation.

DELIVERY FORM

The pressure stations are delivered as a complete delivery, incl. assembly, or accordingly to an agreement. Assembly of bigger stations/stations with controlled speed must be supervised and commissioning co-executed by the Contractor. The station lay-out can be designed individually - it is subject of technical negotiation. The Contractor reserves the right to modify the delivery in comparison to the above figure while keeping the given parameters.

DELIVERY DATE

According to contract