

AROUND THE PUMP PROPORTIONERS PP TYPE

OPERATING AND MAINTENANCE HANDBOOK

DESCRIPTION

The around-the-pump-proportioner are known as the simplest foam compound inductors. A foam compound injector of respective suction capacity is operated with the water pressure of the fire pump and presses the foam compound with the delivery water into the suction line of the fire pump.

The foam compound injector of the around-the-pump-proportioner can also produce a certain counter pressure, so the operation will be possible if the water is delivered to the water pump under pressure.

The pump input pressure, however, must not be higher than half minus 1 bar of the outlet pressure in order to not affect the suction capacity of the foam compound injector.

The ratio between suction and delivery pressure should be at least $1 \div 1,6$.

Back up pressure in the discharge pipe resulting from hose streams ect. is to be considered.

The around-the-pump-proportioners are installed in parallel with the fire pump. This parallel running pipe line leads from the pressure line of the fire pump to the water inlet of the around-the-pump-propotioner.

The required flow rate for the operation of the inductor leaves the around-the-pump-proportioner through an injector nozzle and inducts the foam compound from the foam compound container via the suction connection which is arranged to the side of the around-the-pump-proportioner.

The foam compound is mixed to the water rate of flow in the collecting nozzle. Then the foam compound-water mixture is conducted through the inductor outlet pipe into the suction line of the fire pump, delivered through the whole line and thereby mixed together with all the supplied water.

The around-the-pump-proportioner are manufactured as type PP 100, 200, 400, 600. The numbers state the maximum foam compound induction capacity in lt/min which, however, can be reduced by adjusting the hand lever.

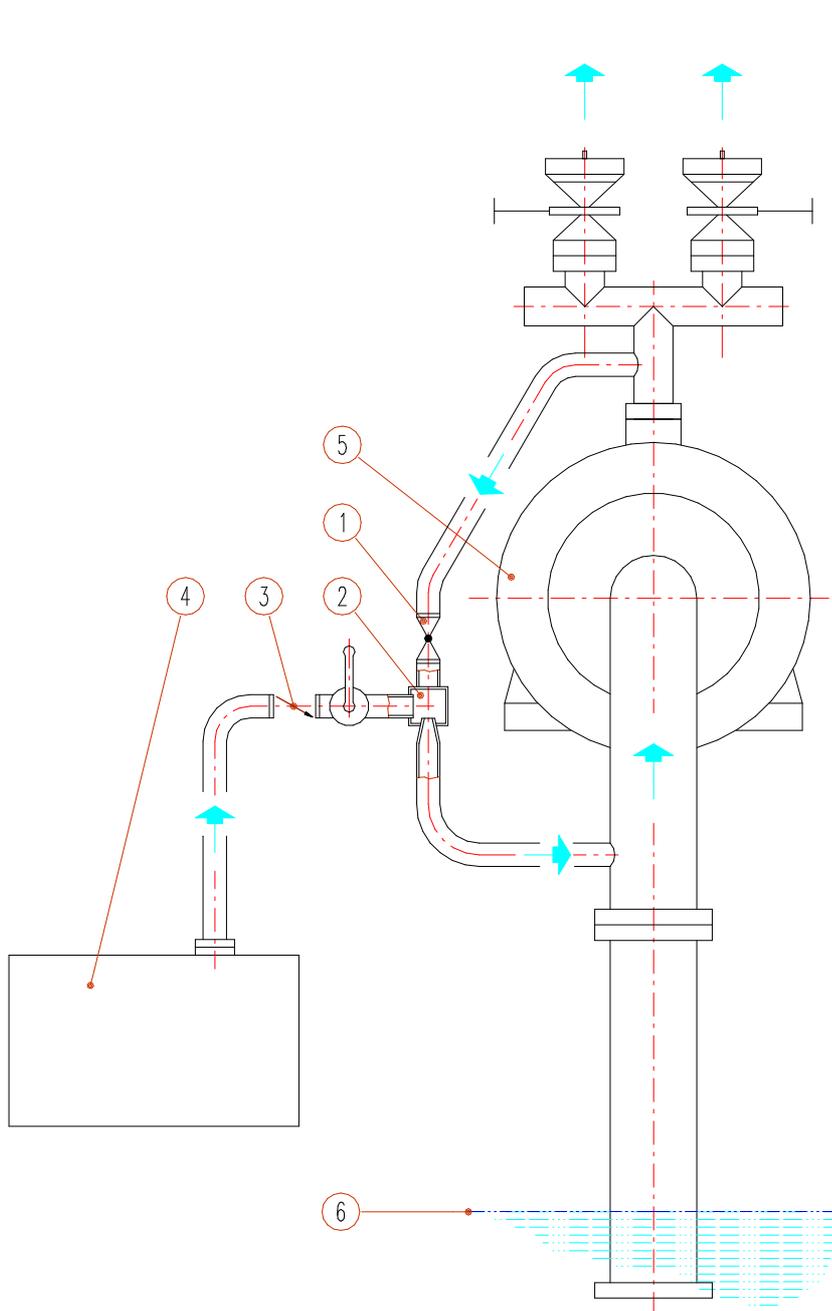
All the around-the-pump-proportioners have a non-return valve on the foam compound suction line in order to prevent the water from flowing into the foam compound line at any possible interruptions.

Around-the-pump-proportioners are suitable for constant consumption.

Enclose

- Connecting scheme for around-the-pump-proportioner PP

■ Drawing no. A04 6199/99T



- ① Valvola ad apertura rapida
Quick opening valve
Schnellschlußschieber
- ② Premescolatore in pompa
Around the pump proportioner
Pumpenvormischer
- ③ Valvola di non ritorno
Non return valve
Rückschlagventil
- ④ Serbatoio schiumogeno
Foam compound tank
Schaummitteltank
- ⑤ Pompa
Water pump
Wasserpumpe
- ⑥ Livello acqua
Water level
Wasserspiegel